STORM WATER SEWER IMPROVEMENTS TO SERVE

TYLER ACRES 5TH ADDITION

Private Project Number

736 PPS(607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

General Notes

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call	687-2470

The Contractor must notify the following in case of an emergency.

Cablevision	262-4270
or	263-2061
K.P.L. Gas Service Company	263-7511
Kansas Gas & Electric Company	264-1141
Arkla Gas Company	942-8350
or	263-8161
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071

2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

4. Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.

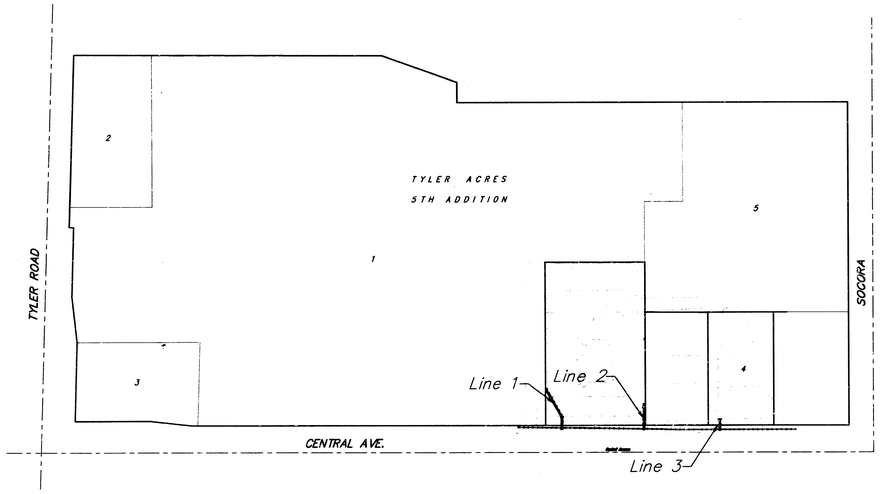
5. All areas disturbed by construction operations shall by seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Ground shall be prepared per City of Wichita specifications prior to seeding.

6. The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.

7. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

8. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

9. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.



BENCHMARK:

BM #1 "□" Cut in Back of Walks, NW Corner of Socora & Central
Elev. = 148.77 (City Datum)

BM #2 City Disk 56.2' North and 38' West of ℄'s Both Central & Tyler.
Elev. = 143.90 (City Datum)

Scale: 1" = 150'

INDEX:

1 Title Sheet
2 Lines 1 & 2
3 Line 3
4 Shallow Manhole Detail
5 Type 1 Curb Inlet Detail
6 Double Faced Type 1 Curb Inlet Detail
7 Copy of Tyler Acres 5th Addition Plat

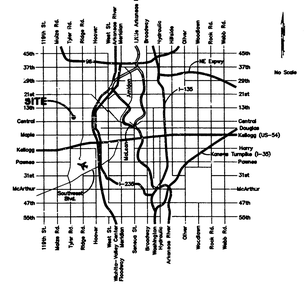
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 9/19/97

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

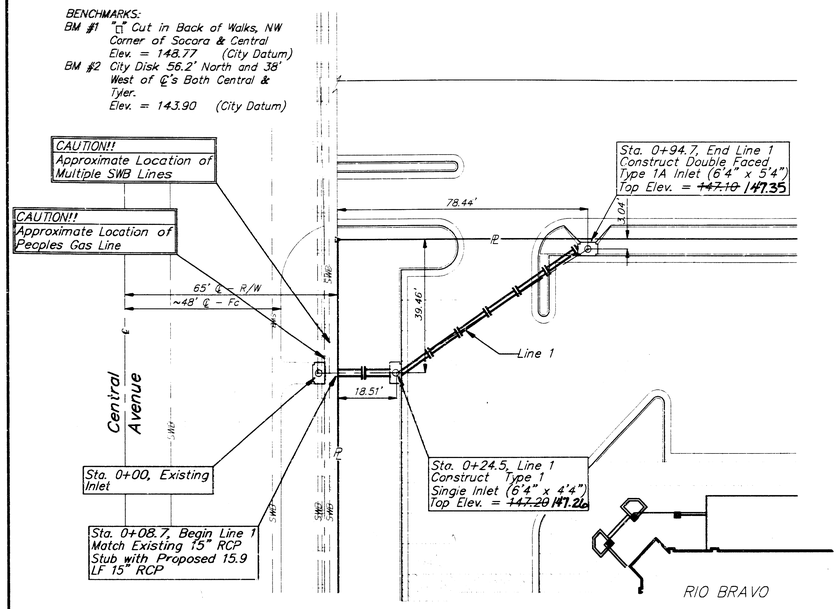
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MCS
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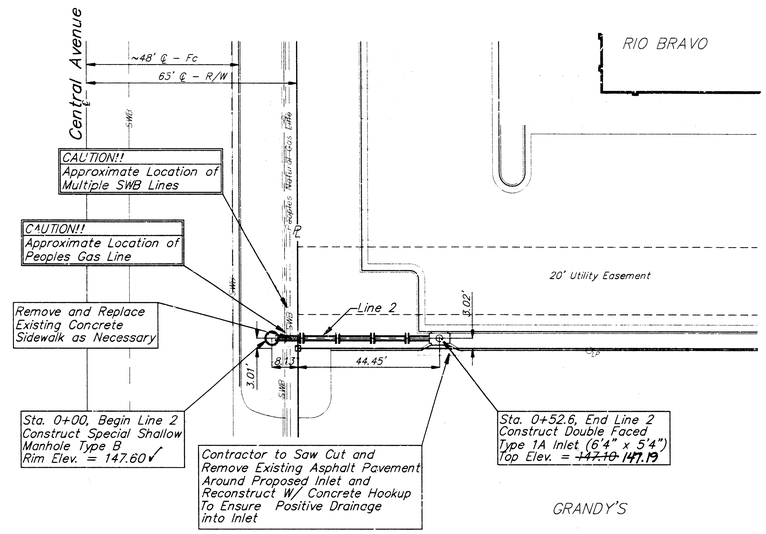


PROJECT INSPECTED BY BAUGHMAN CO.
AS-BUILT 11/17/97 BAUGHMAN CO. Sept 1997 P.A.

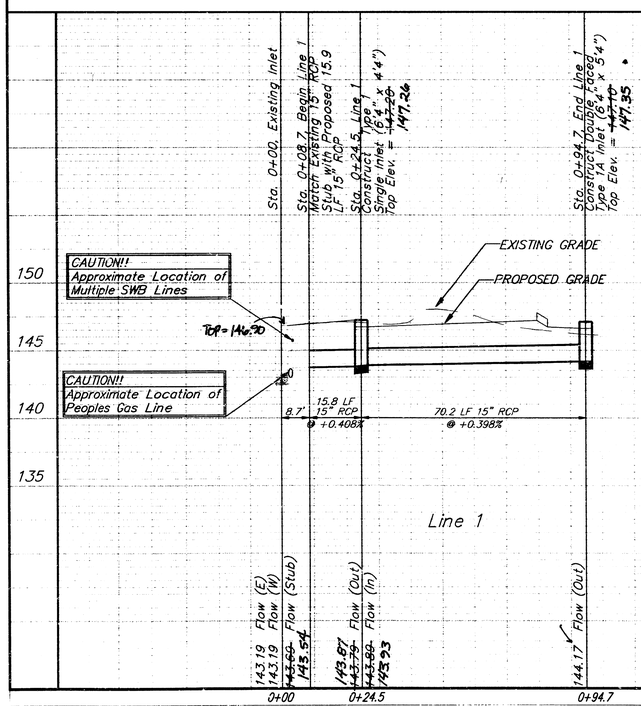
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

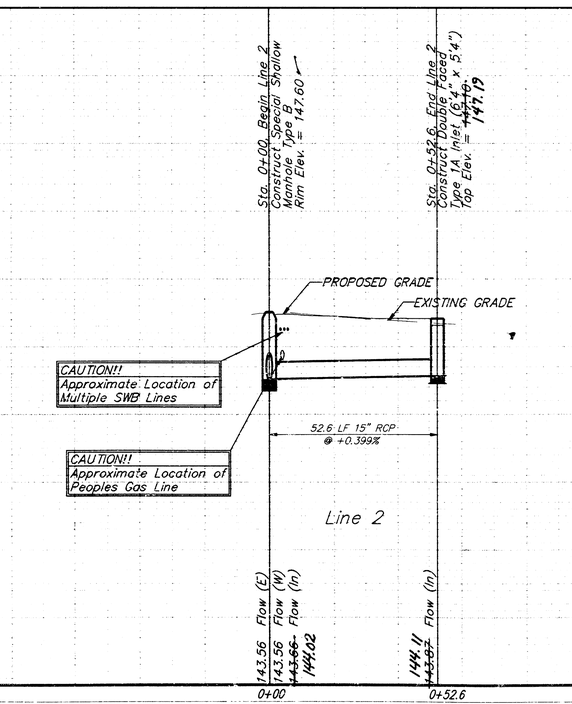
BENCHMARKS:
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Elev. = 143.90 (City Datum)





Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron





As-Built 11/17/97 by: BAUGHMAN CO.

RIO BRAVO - STORM WATER SEWER
LINES 1 & 2
TYLER ACRES 5TH ADDITION

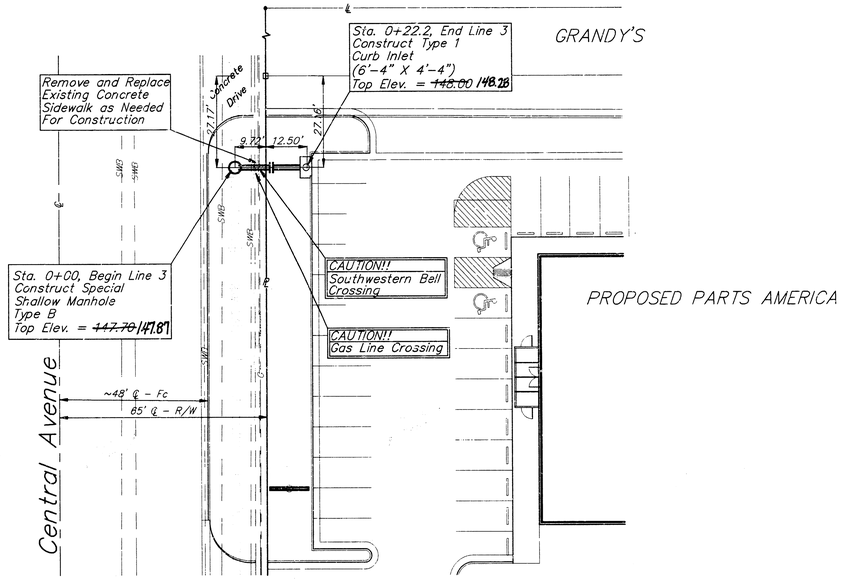
BAUGHMAN COMPANY P.A.
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PROJECT NUMBER	SHEET
736 PPS(807881)	2 OF 7

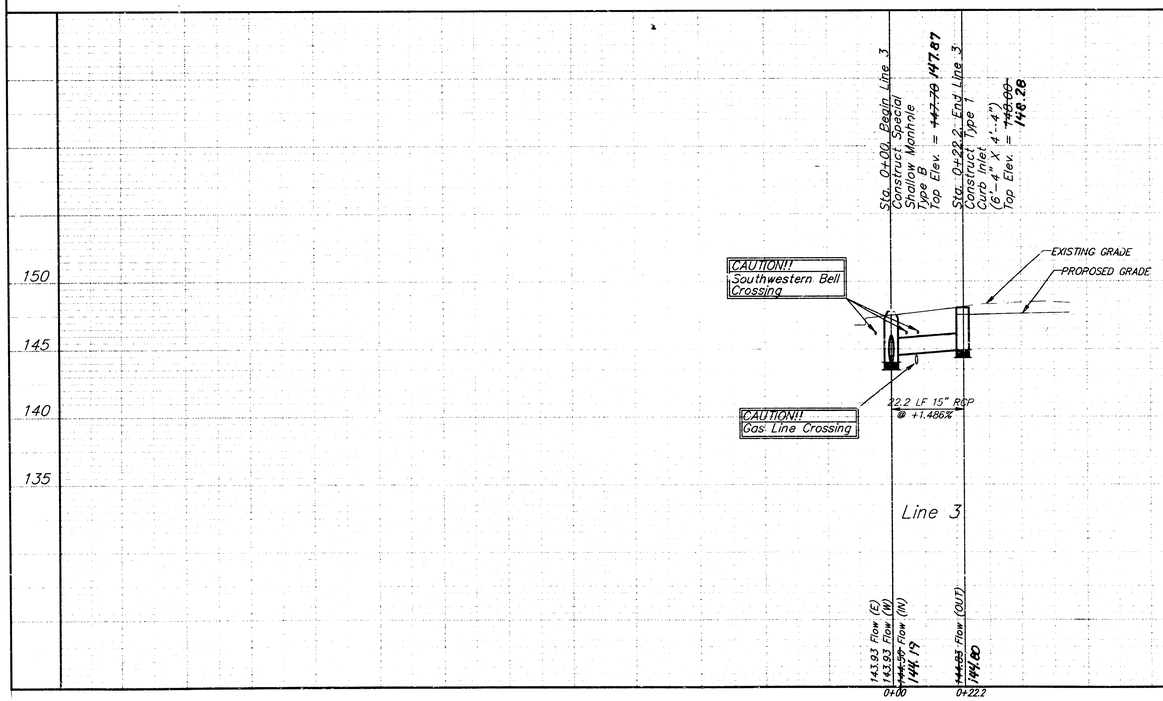
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NBW	JAB	NBW	9-97	NOTED

11-HACS/SWS1 97-09-1805

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Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron



As-Built 11/17/97 by - BAUGHMAN CO.

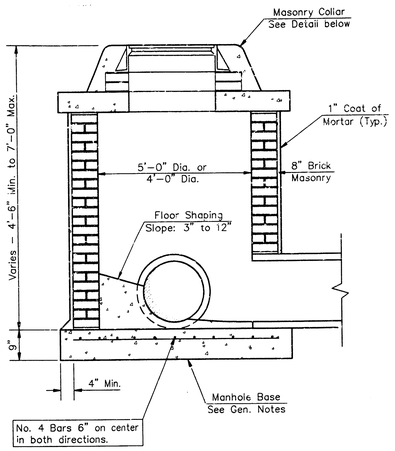
PARTS AMERICA - STORM WATER SEWER
LINE 3
TYLER ACRES 5TH ADDITION

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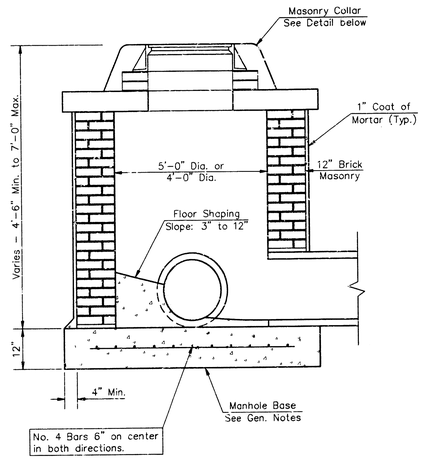
PROJECT NUMBER	SHEET
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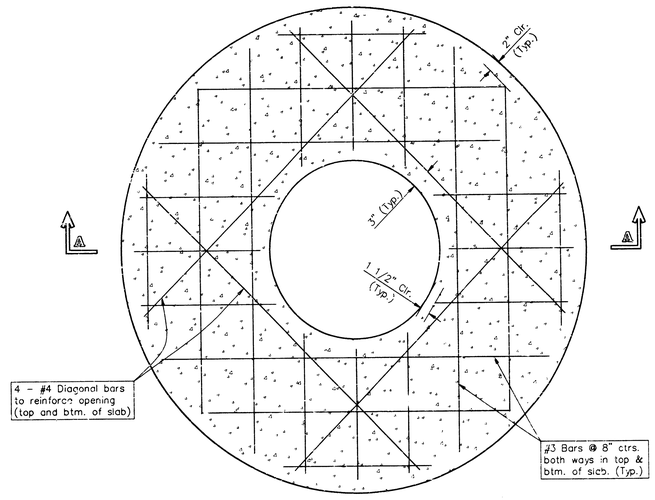
TYLER-3.DWG 97 159 EAST



SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE



PLAN

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.

2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.

3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self clearing and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.

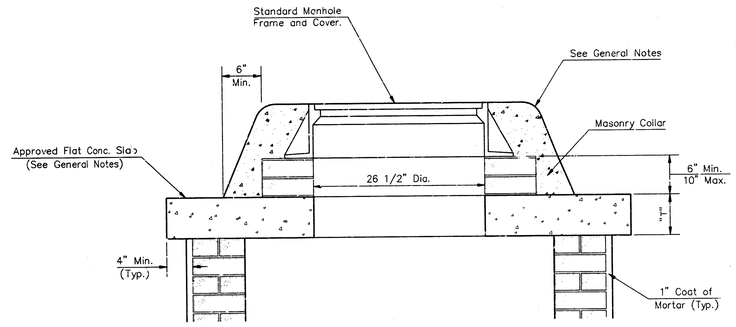
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.

5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.

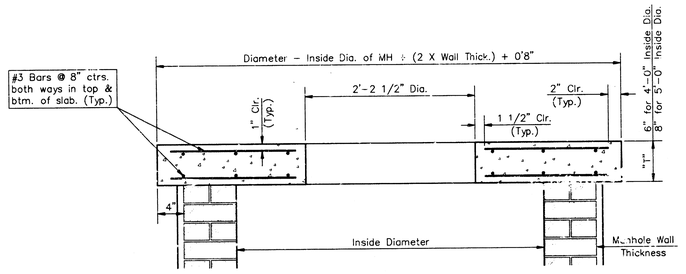
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.

8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

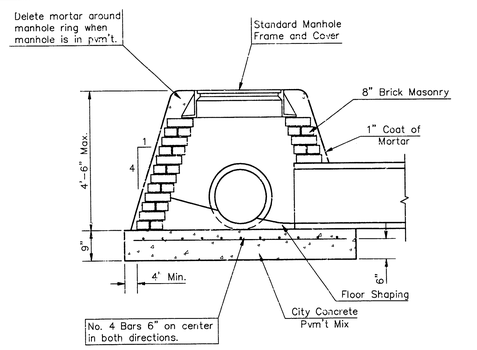


MASONRY COLLAR DETAIL

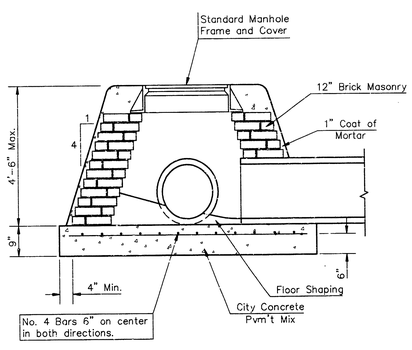


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

CITY OF WICHITA, KANSAS

Std. Manhole Detail

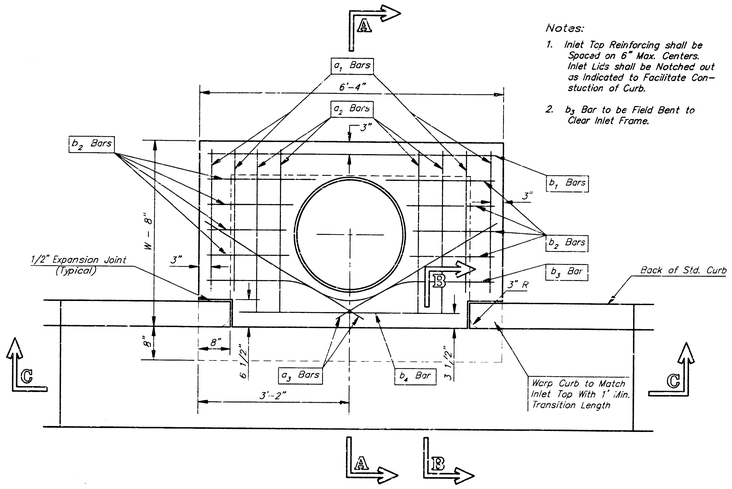
TYPE "A" AND TYPE "B"

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PROJECT NUMBER	SHEET
733 PPS(607861)	4 OF 7

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	Staff		5-97	NONE

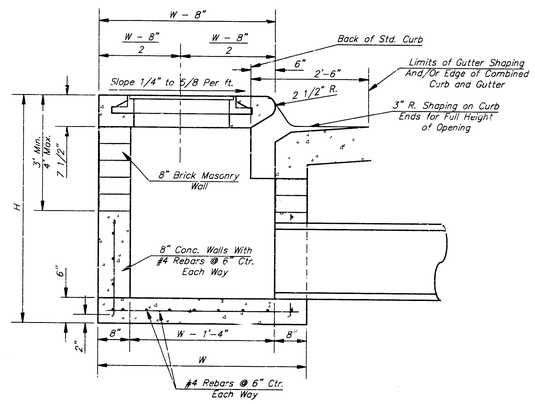
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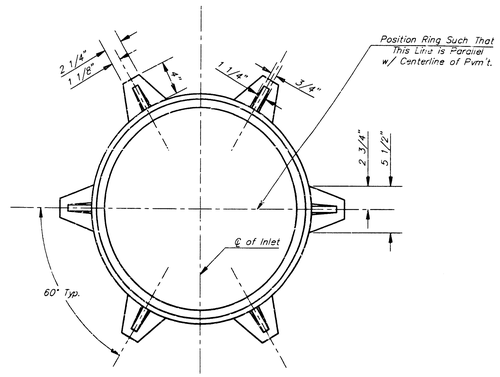
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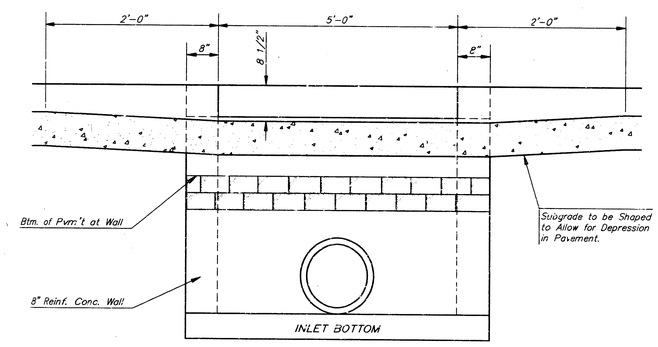
Notes:

1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
2. b_3 Bar to be Field Bent to Clear Inlet Frame.

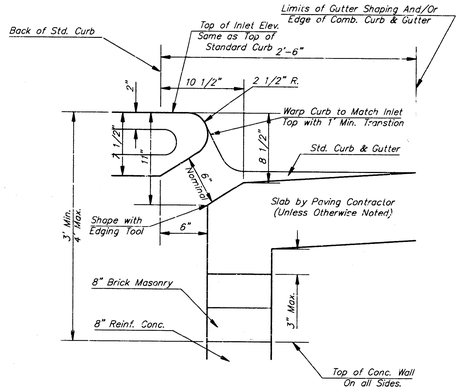


SECTION A–A

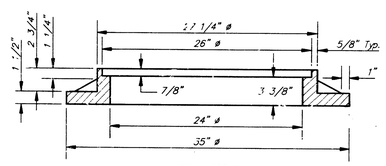




SECTION C–C



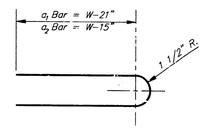
SECTION B–B



WT. = 180 lbs.

MANHOLE RING AND COVER

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



BENDING DIAGRAM

STEEL SCHEDULE

BAR		a_1	a_2	a_3	b_4 W=4'-4"	b_4 W=5'-4"	b_4 W=6'-4"	b_4 W=7'-4"	b_4 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
	W=7'-4"	11'-7"	12'-7"	7'-0"	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
	W=8'-4"	13'-7"	14'-7"	8'-0"	–	–	–	–	6'-1"	1'-9"	6'-2"	4'-8"	141±

Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±

GENERAL NOTES

1. Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concreie pavement mix.
2. Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.
3. Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

Revised -- Dec. 21, 1984

CITY OF WICHITA, KANSAS

TYPE 1 CURB INLET

INLET OPENING = 8"X5'-0"

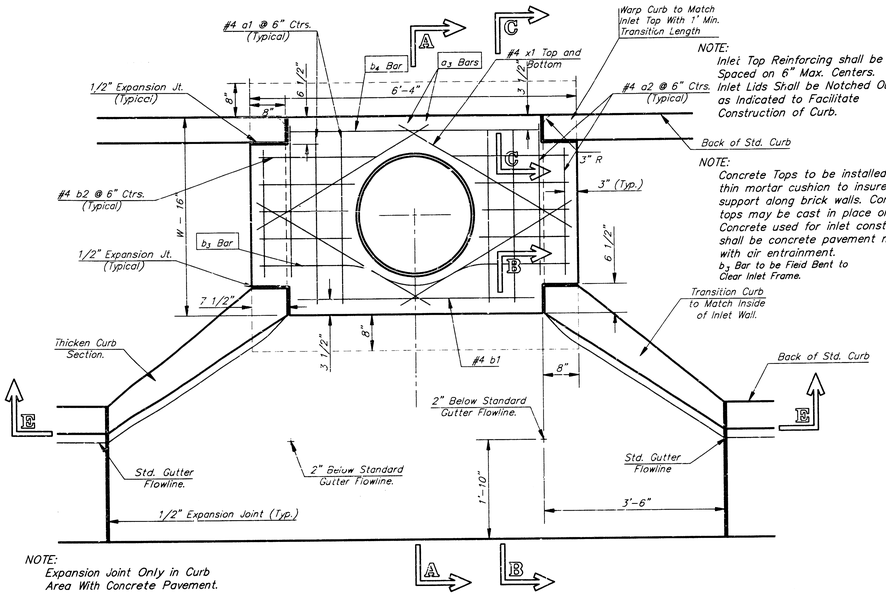
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 736 PPS(607861)

SHEET 5 OF 7

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	STAFF		9-97	N.T.S.

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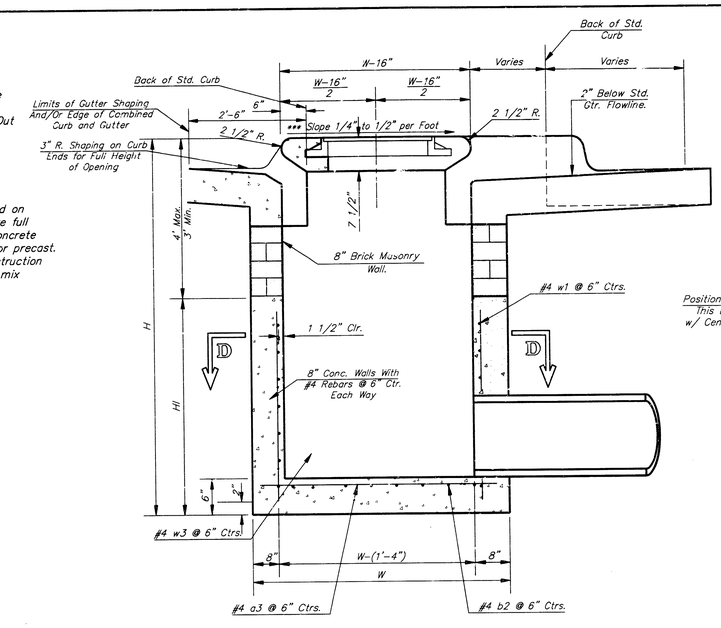


NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.
b_3 Bar to be Field Bent to Clear Inlet Frame.

NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

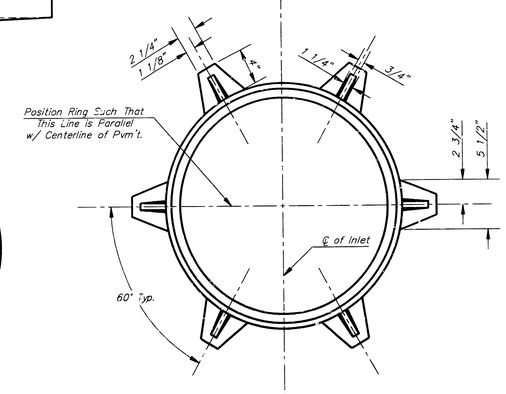
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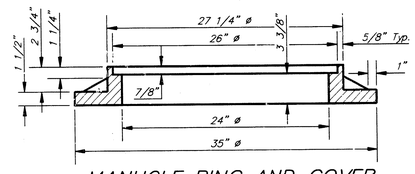


SECTION A–A

***NOTE: Slope of Inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.

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5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±

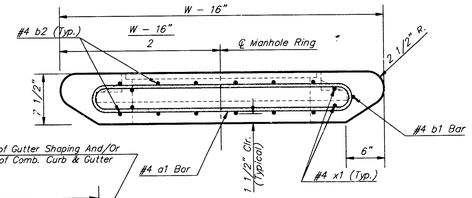




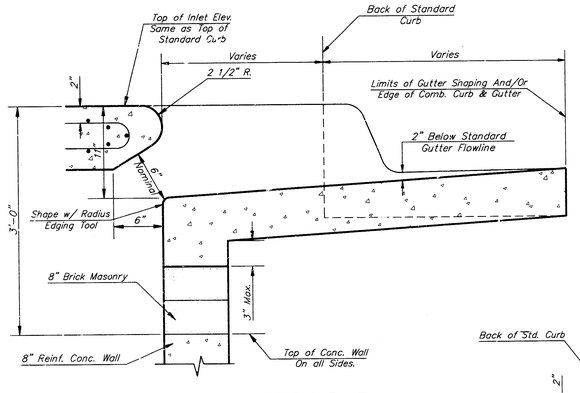
MANHOLE RING AND COVER

Weight = 180 Lbs.

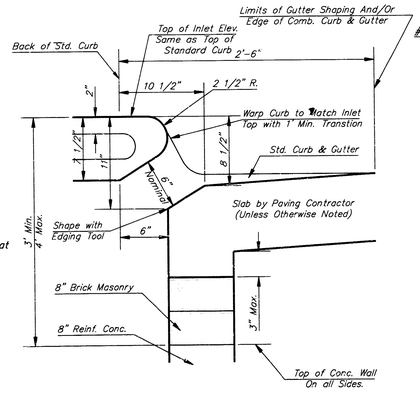
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



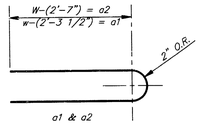
SECTION A–A



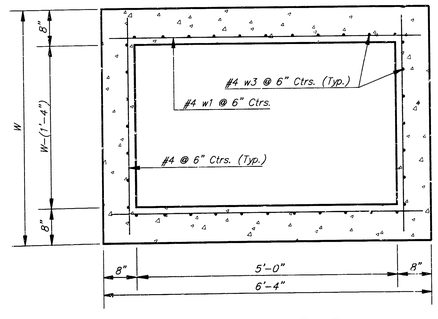
SECTION B–B



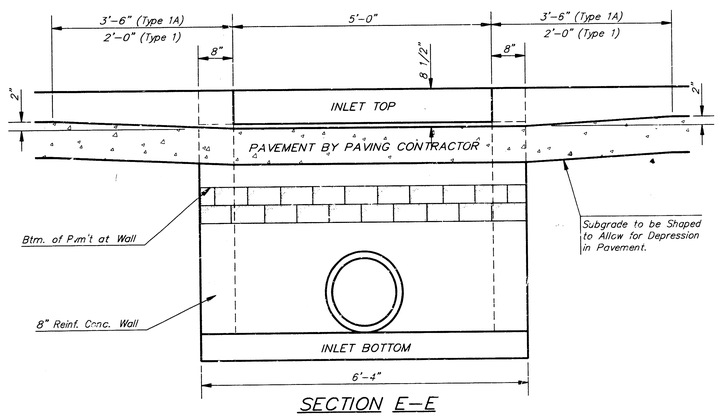
SECTION C–C



BENDING DIAGRAM



SECTION D–D



SECTION E–E

PRECAST SLAB AND FLOOR REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
* b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"
WALL REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②	48	②

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (HI - 12") (HI - 21") Rounded down to nearest 0.5'
② HI - 3"

NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self-cleaning between all inlet and/or outlet pipes.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

Revised – Feb. 16, 1989

CITY OF WICHITA
DOUBLE FACED TYPE 1/1A CURB INLET DETAILS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

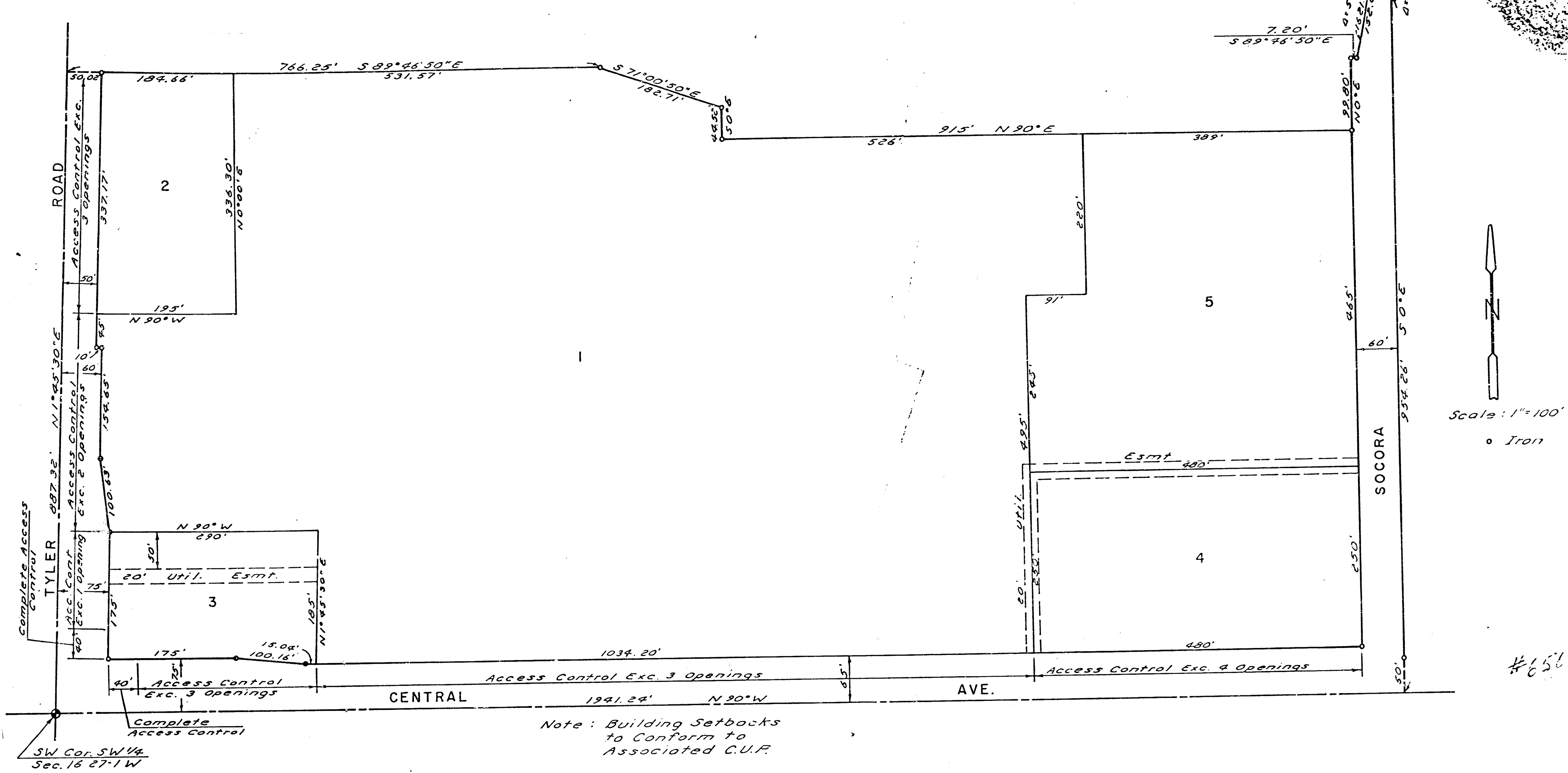
PROJECT NUMBER 736 PPS(607861) | SHEET 6 OF 7

DESIGN	DRAWN	APPROVED	DATE	SCALE
			9-97	NONE

TRACS\71A.E

TYLER ACRES FIFTH ADDITION

WICHITA, KANSAS



#651625

This plat of "TYLER ACRES FIFTH ADDITION", Wichita, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 11th day of MARCH, 1982.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James E. Gardner II, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown hereon accepted by the Board of City Commissioners, Wichita, Kansas, this 14th day of JUNE, 1983.

Margalee Wright, Mayor

Donald C. Gisick, City Clerk

This plat approved and all dedications shown hereon accepted by the Board of County Commissioners, Sedgwick County, Kansas, this ___ day of ___, 1983.

Jack Spratt, Chairman

Donald E. Gragg, Commissioner

Tom Scott, Commissioner

Dorothy K. White, County Clerk

Entered on transfer record this 2nd day of ___, 1983.

Dorothy K. White, County Clerk

State of Kansas } S.S.
Sedgwick County } We, Baughman Company, P.A. Surveyors in aforesaid county and state, do hereby certify that we have surveyed and platted "TYLER ACRES FIFTH ADDITION", Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed described as a replat of that part of Block 2, Tyler Acres First Addition an addition in Sedgwick County, Kansas, lying south of a line 780 feet north and parallel to the south line of said SW 1/4, and including Delano Ave. now vacated, and being a replat of all of Tyler Acres Second and Fourth Additions, Wichita, Kansas, and part of the SW 1/4 of Section 16, T27S, R1W, Sedgwick County, Kansas, being more particularly described as follows: Beginning at the SW corner of said SW 1/4; thence N 1°45'30"E, along the west line of said SW 1/4, 887.32 feet to the SW corner of Ascension Lutheran Church Addition, Wichita, Kansas; thence along the south line of said addition, bearing S 89°46'50"E, 766.25 feet; thence S 71°00'50"E, 182.71 feet; thence S 0°00'00"E, 44.52 feet; thence N 90°00'00"E, 915 feet; thence N 0°00'00"E, 99.80 feet; thence S 89°46'50"E, 7.20 feet to the center line of Socora Lane; thence along said center line with a curve to the left with a radius of 1621.78 feet, a central angle of 5°22'18", on arc distance of 152.05 feet and a long chord of 151.99' bearing N 9°29'27"E, to the south line of School St.; thence along said south line, bearing S 89°46'50"E, 30.66 feet; thence along a curve to the left with a radius of 970 feet, a central angle of 4°27'09", on arc distance of 75.38 feet and a long chord of 75.36 feet bearing S 2°13'35"W; thence S 0°00'00"E, 954.26 feet to the south line of said SW 1/4; thence along said south line, bearing N 90°00'00"W, 1941.24 feet to the point of beginning, including that part taken for Central Ave. and Tyler Rd. and Socora Lane being vacated by virtue of K.S.A. 1970 Supp. 12-512(b). The easement granted by Bk. 65, Pg. 33, is being vacated by virtue of K.S.A. 1983 Supp. 12-512(b).

Date 3/22/83 Baughman Company, P.A.

20.00

Know all men by these presents, that we, the undersigned, have caused the land described described in the surveyors certificate to be platted into lots and streets to be known as "TYLER ACRES FIFTH ADDITION", Wichita, Kansas. The easements are hereby granted as indicated for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. All abutters rights of access to Tyler Rd. and Central Ave. are hereby granted to the City of Wichita, Kansas, except, however, that Lot 1 shall have access to Central Ave. at three locations and to Tyler Rd. at two locations; Lot 2 shall have access to Tyler Rd. at three locations; Lot 3 shall have access to Central Ave. at three locations over the east 250.04 feet and to Tyler Rd. at one location over the north 135 feet; and Lot 4 shall have access to Central Ave. at four locations, all of the above locations to be determined by the City Engineer.

Edward T. Neville and Rita A. Neville, Trustees for Alvin Leon Neville and Gregory Allen (AKA Alan) Neville

Edward T. Neville Rita A. Neville

Edward T. Neville Rita A. Neville

State of Kansas } S.S.
Sedgwick County } The foregoing instrument was acknowledged before me this ___ day of ___, 1983, by Edward T. Neville and Rita A. Neville, his wife, Trustees for Alvin Leon Neville and Gregory Allen (A.K.A. Alan) Neville

___ Notary Public

My Commission Expires ___

State of Kansas } S.S.
Sedgwick County } The foregoing instrument was acknowledged before me this 22nd day of April, 1983, by Edward T. Neville and Rita A. Neville, his wife.

We, the First National Bank in Wichita, holder of a mortgage on part of the above described property, do hereby consent to this plat of "TYLER ACRES FIFTH ADDITION"

First National Bank in Wichita

___, Vice President

State of Kansas } S.S.
Sedgwick County } The foregoing instrument was acknowledged before me this 22 day of MARCH, 1983, by the First National Bank in Wichita, by R. J. Mesler, Vice President

___ Notary Public

My Commission Expires 1-14-87

We, the Southwestern Life Insurance Co., holder of a mortgage on part of the above described property, do hereby consent to this plat of "TYLER ACRES FIFTH ADDITION"

Southwestern Life Insurance Co.

___, ___

State of Texas } S.S.
___ County } The foregoing instrument was acknowledged before me this ___ day of ___, 1982, by Southwestern Life Insurance Co. by ___

___ Notary Public

My Commission Expires ___

State of Kansas } S.S.
Sedgwick County } This is to certify that this plat has been filed for record in the Office of the Register of Deeds this 2nd day of September, 1983, at ___ o'clock A. M., and is duly recorded.

Bette F. McCart, Register of Deeds

Pat Kettler, Deputy

16 04 05 13