STORM WATER SEWER IMPROVEMENTS
TO SERVE
AUTOZONE

Private Project Number

755 PPS (607861)

CITY OF WICHITA, KANSAS

Prepared by: Baughman Co. P.A. 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.

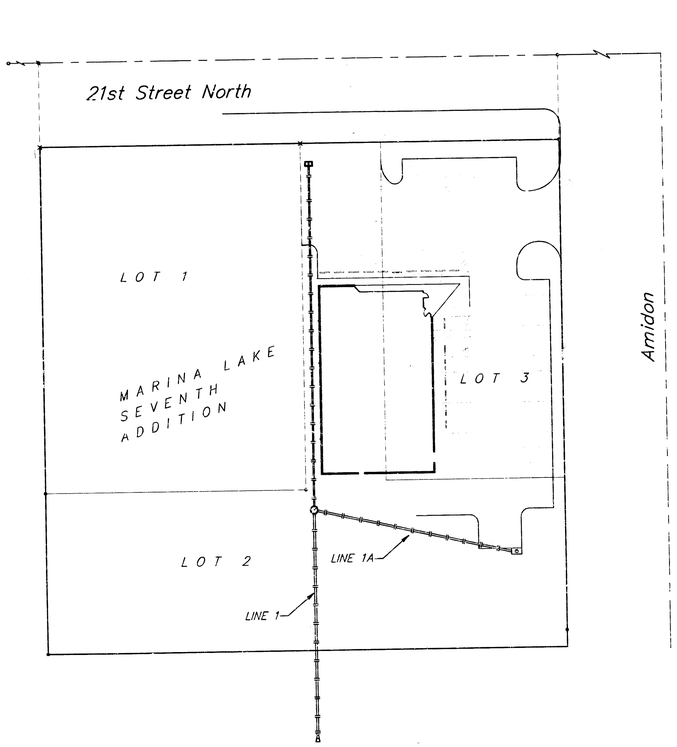
5. All areas disturbed by construction operations shall by seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Ground shall be prepared per City of Wichita specifications prior to seeding.

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.



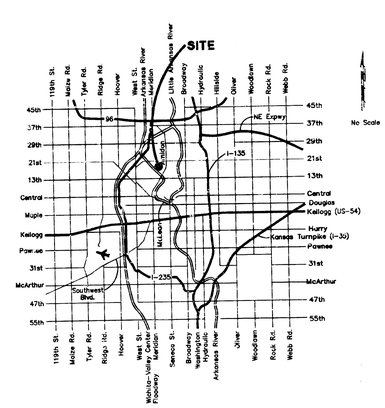
SCALE: 1" = 40'

BENCHMARK:

"+" Cut in South Side of Sidewalk at NE Corner Lot 1, Marina Lakes Addition. Elevation = 125.54 (City Datum)

INDEX:

1	Title Sheet
2	Storm Water Sewer Line 1
3	Type 1 Curb Inlet Detail
4	Shallow Manhole Detail
5	2'X4' Drop Inlet Detail
6	Copy of Marina Lake Seventh Addition Plat



BOOKED 7-22-98 D-397 MCG

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 11/3/97

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).

LICENSED 13744 11/12/97 KANSAS PROFESSIONAL ENGINEER

PROJECT INSPECTED BY L.P., BAUGHMAN COMPANY P.A.
AS-BUILT 1-27-98 BAUGHMAN CO. P.A.

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

BENCHMARK:
"+" Cut in South Side of Sidewalk at NE Corner Lot 1, Marina Lakes Addition.
Elevation = 125.54 (City Datum)

Sta 0+00, Begin Line 1
Begin Construction of 15" SWS. Miter End to Match Slope. Install 4.4 S.Y. Light Stone Rip-Rap.

Sta 1+37.0, Line 1 = Sta 0+00, Line 1A
Construct Shallow 4' Diameter Type "P" Manhole W/Beehive Grate.*
1 - 8" Stub (NE)
Rim Elev. = ~~127.20~~ 127.30

Install Hay Bale Barrier Around Inlet-Manhole.

CAUTION! Prop. 4" SS Crossing

Remove Fence. Do Not Replace.

Sta 3+41.8, End Line 1
Construct Standard Drop Inlet (2'X4')
Rim Elev. = ~~125.60~~ 125.76

Sta 1+29.1, End Line 1A
Construct Type 1 Curb Inlet (6'4" X 4'4")
Top Elev. = 125.50

4" Roof Drains and 8" PVC Pipe (By Others)

Line 1

Line 1A

54.02'

78°30'58"

101°29'02"

57.30'

31.40'

12.16'

Existing Pond

UNPLATTED

South Line Marina Lake Seventh Addition

Mutual Ingress & Egress Easement

20' Utility Easement

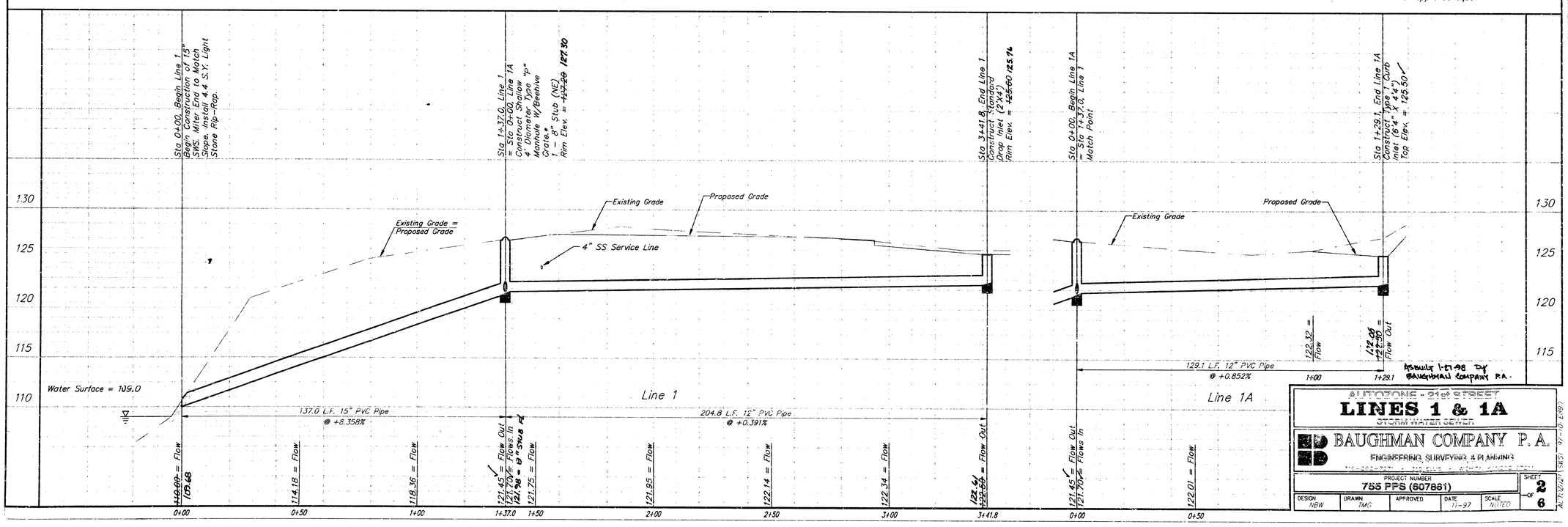
21st Street North

5' D/W - C Varies

MARINA LAKE
SEVENTH ADDITION

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

* NOTE: Beehive grate may be Deeter 1968, Neenah R-2560-E6, or approved equal.



AUTOZONE - 21st STREET

LINES 1 & 1A

STORM WATER SEWER

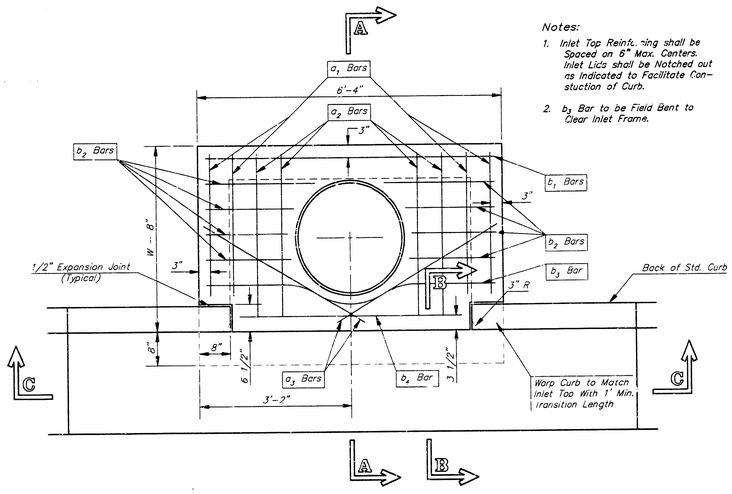
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING

PROJECT NUMBER 755 PPS (607861)

DESIGN	DRAWN	APPROVED	DATE	SCALE
NEW	TMG		11-97	NOTED

SHEET 2 OF 6

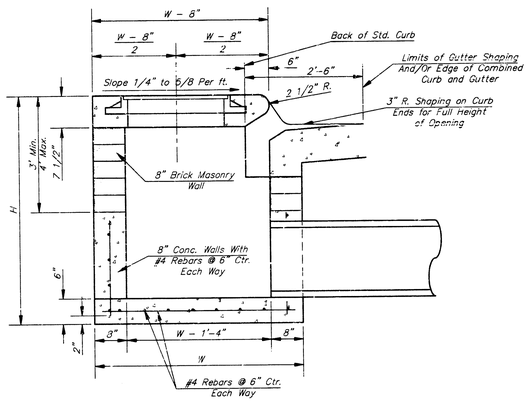
AC T12x21 (1957) 97-10 EWB



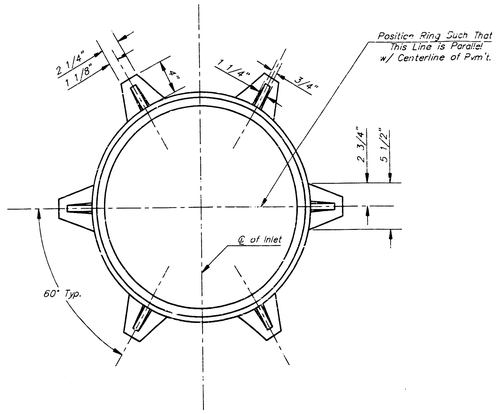
PLAN

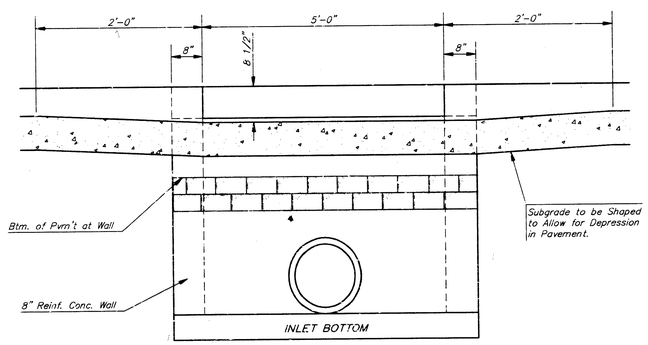
Notes:

1. Inlet Top Reinf. ring 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.

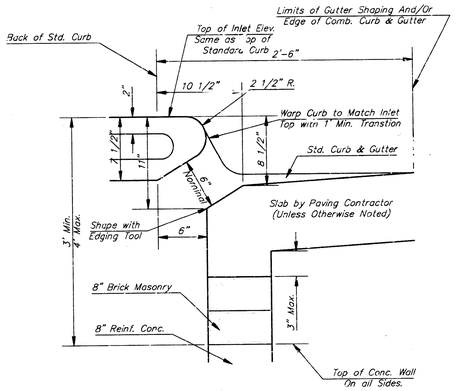


SECTION A–A

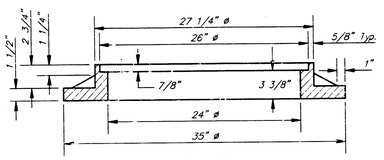




SECTION C–C



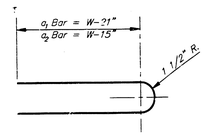
SECTION B–B



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_1 #4'-4"	b_1 #5'-4"	b_1 #6'-4"	b_1 #7'-4"	b_1 #8'-4"	b_2	b_3	a_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 concrete 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 = 5'-0"

BAUGHMAN COMPANY P.A.

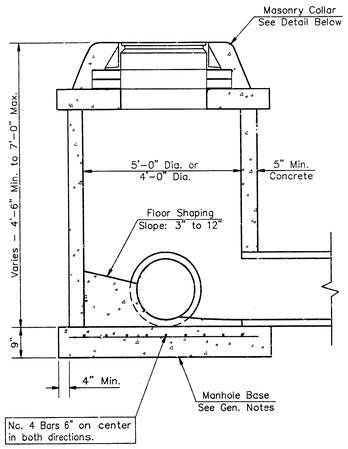
ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 310 ELLIS • WICHITA, KANSAS 67211

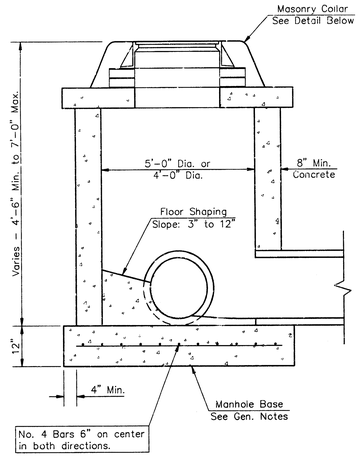
PROJECT NUMBER	SHEET
755 PPS (607881)	3 OF 6

DESIGN	DRAWN	APPROVED	DATE	SCALE
D.L.A.	STAFF		11-27	NONE

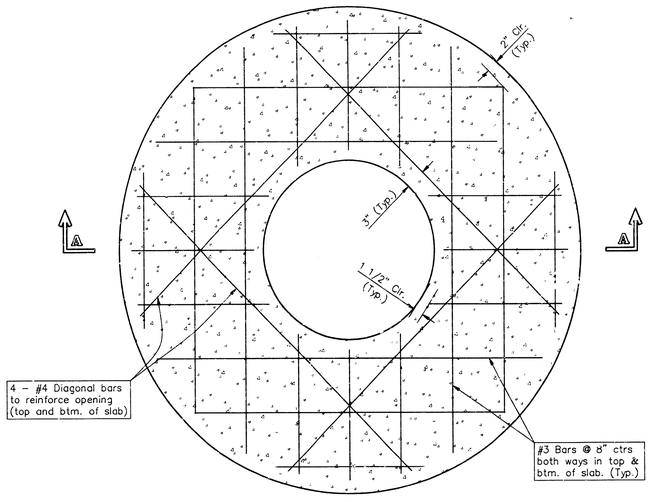
A1702N2\STYPI-5 3-10-1980



SHALLOW TYPE "P" MANHOLE



SHALLOW TYPE "C" 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. 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 cleaning 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.

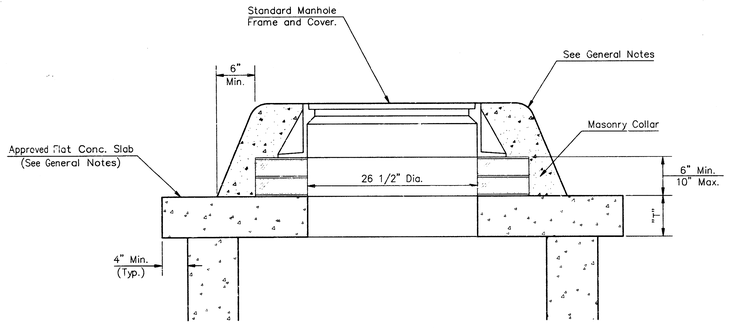
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain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

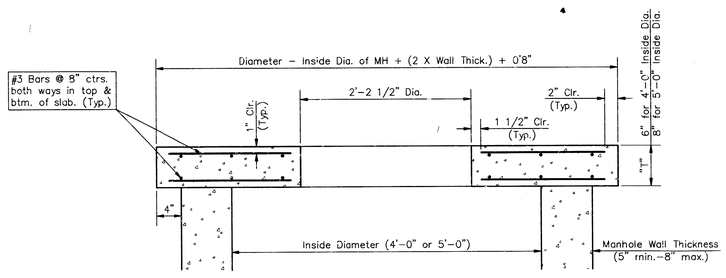
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter 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

CITY OF WICHITA, KANSAS

STANDARD SHALLOW MANHOLES

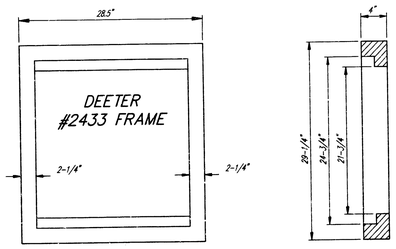
TYPE 'P' AND TYPE 'C'

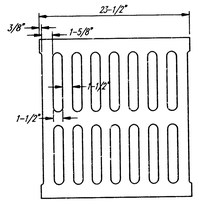
PROJECT NUMBER
755 PPS (607861)

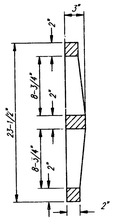
SHEET 4 / OF 6

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ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

DETAIL\SHLWMH2.DWG



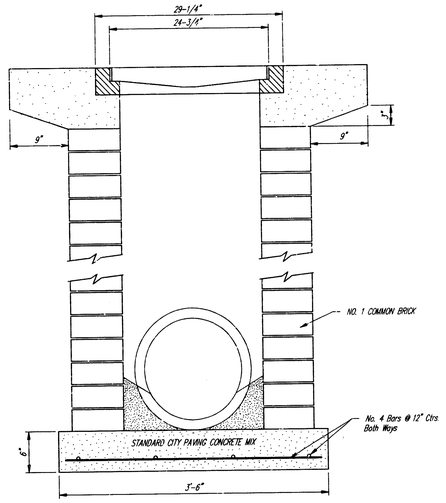


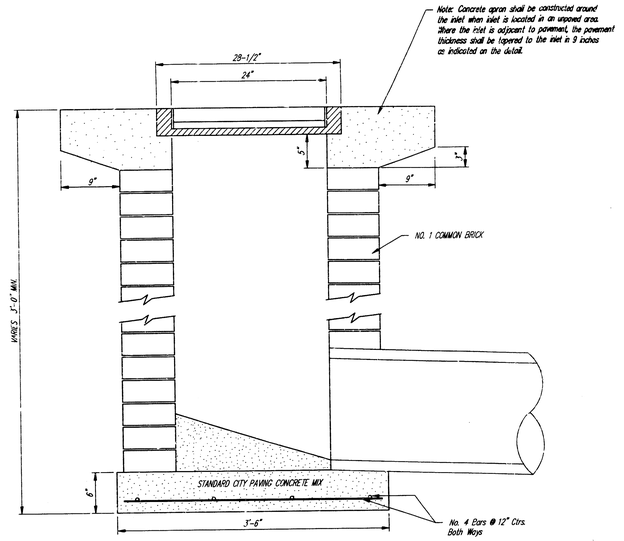


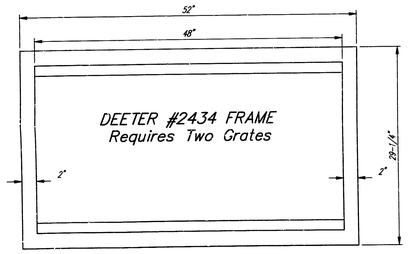
DEETER #2433 GRATE

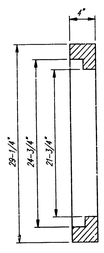
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

24" x 24" Frame and Grate Detail

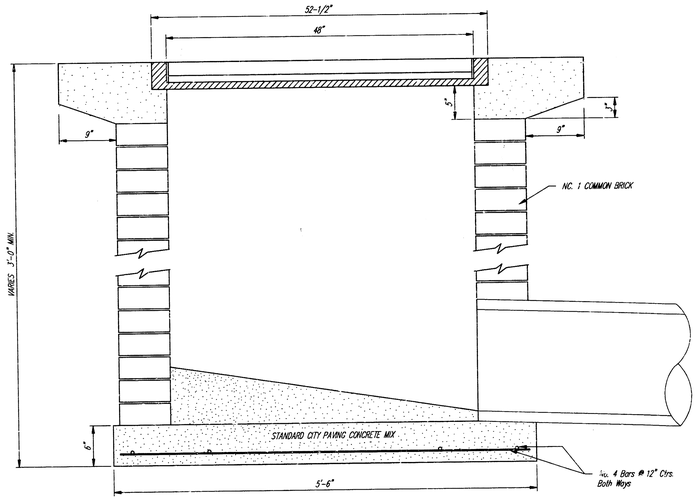








Double 24" x 24" Frame Detail



City of Wichita Standard
Drop Inlet

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

PROJECT NUMBER
755 PPS (607881)

SHEET 5 OF 6

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	Staff		11-97	NONE

REVISIONS DRAWN 97-10-1890

MARINA LAKE SEVENTH ADDITION

WICHITA, KANSAS

* Note: See associated community unit plan for development limitations.

State of Kansas } ss.
Sedgwick County }

We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "MARINA LAKE SEVENTH ADDITION" Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed described as follows and being a replat of Lot 3, Marina Lake Fourth Addition, Wichita, Kansas. Being situated in the N.W.¼ of Sec. 7, Twp. 27-S, R-1-E of the 6th P.M., Sedgwick County, Kansas. Access control being restricted by virtue of K.S.A. 12-512 a).

Mar 1, 1985
Date

Baughman Company, P.A.
John E. Baughman Surveyor

Know all men by these presents that we, the undersigned owners of the above described tract of land, have caused the same to be subdivided into lots to be known as "MARINA LAKE SEVENTH ADDITION," Wichita, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities, with ingress and egress rights of access to or from 21st St. North over and across the north 10 feet of Lot 1 and the east 10 feet of the north 112 feet of Lot 2 as shown hereon, granted to the City of Wichita, Kansas, for the purpose of providing access to the Arkansas River. Access rights of access to and from 21st St. North are hereby released except as shown hereon. Basis of bearings is the west line of the NW¼ of Sec. 7-27-1E being S 0°08'40" E a distance of 2638.4 feet between the found monuments as shown hereon or 1210 City Datum.

Color Tile Supermart, Inc.
by _____ Title _____

_____ Victor B. Eisenring
_____ Eisenring

_____ Harry D. Bledsoe
_____ Annie Bledsoe

Resthaven Gardens of Memory, Inc. (Merchandise Trust Fund)
by James March Sr. President

State of _____ } ss.
County of _____ }
This foregoing instrument was acknowledged before me this _____ day of _____ 198__, by _____ of Color Tile Supermart, Inc. on behalf of the corporation.

_____ Notary Public
Maryland Caldwell
My App. Exp. 1-8-87

State of Kansas }
Sedgwick County } ss.
The foregoing instrument was acknowledged before me this _____ day of _____ 198__, by Victor B. Eisenring and _____ Eisenring, and by Harry D. Bledsoe and Annie Bledsoe.

_____ Notary Public
Pamela A. Kerkam
My App. Exp. _____

State of Kansas }
Sedgwick County } ss.
The foregoing instrument was acknowledged before me this _____ day of _____ 198__, by James March, Sr. President of Resthaven Gardens of Memory, Inc., on behalf of the corporation.

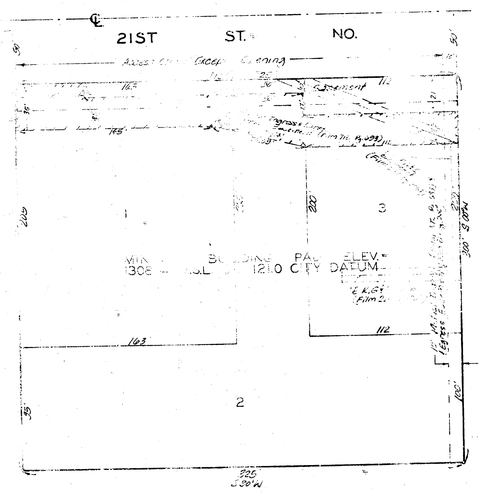
_____ Notary Public
Pamela A. Kerkam
My App. Exp. _____

We, the undersigned, holders of a mortgage on a portion of the above described property do hereby consent to this plat of "MARINA LAKE SEVENTH ADDITION," Wichita, Kansas.

American Amicable Life Insurance Co.
by Mitch Hempel Title _____

State of _____ }
County of _____ } ss.
The foregoing instrument was acknowledged before me this _____ day of _____ 198__, by _____ of American Amicable Life Insurance Co. on behalf of the company.

_____ Notary Public
Priscilla Cross Hratscher
My App. Exp. 12-15-88



This plat of "MARINA LAKE SEVENTH ADDITION," Wichita, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 7th day of February 198__.

Wichita-Sedgwick County Metropolitan Area Planning Commission

_____ Chairman
James A. Wilson
_____ Secretary
Robert A. Colin

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of the City of Wichita, Kansas, this 16th day of April 1985

_____ Mayor
_____ City Clerk
Donald E. Gisick

Entered on transfer record this 11 day of April 198__.

_____ County Clerk
Don Wright

State of Kansas }
Sedgwick County } ss.
This is to certify that this plat has been filed for record in the office of the Register of Deeds this _____ day of _____ 198__, at _____ o'clock ___M; and is duly recorded.

_____ Register of Deeds
Pat Kettler
_____ Deputy
Gail Rose

M3-62

24922