02/24/1999 13:56:28 SWS00V.DWG

STORM WATER SEWER #496

to serve

LARK 6TH ADDITION - PHASE III

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

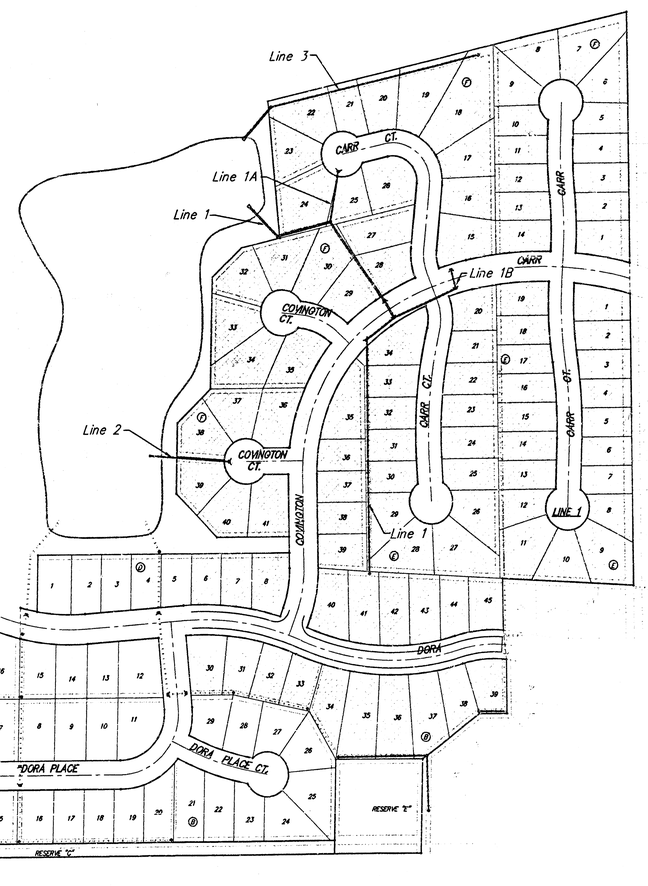
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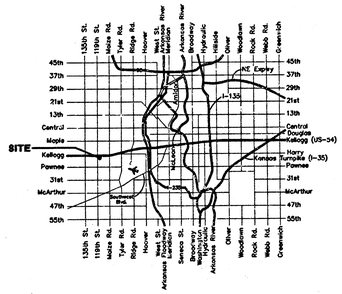
468-82796

Index Code:

751149

Scale: 1" = 150'





Vicinity Map

Benchmarks:

R.R. Spike in East Side of P.P. Located 112.5' North of the North R/W of Dora and 41.5' East of the ℄ of 119th St W. Elev. = 145.26 (City Datum)

V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

Sheet Index

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Line 1A	5
Line 1B	6
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Rip Rap Improvements	10
Easement Grading Plan	11
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Manhole Ring and Cover Detail	15
Concrete Headwall Detail	16
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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:

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

2. Utility service lines, poles, valve boxes, meters, and etcetera 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. 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. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiles or disposed of in a flood plain would a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

4. 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.

5. 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 law.

6. All areas disturbed by construction shall be seeded at 300 lbs./acre with Rye Grass immediately following construction in that area. Contractor shall prepare ground per City specifications.

JOHN M. FLORA LICENSED 15176 2-24-99 KANSAS PROFESSIONAL ENGINEER

Easement Grading Quantities
Excavation = 130 C.Y.
Compacted Fill = 1170 C.Y.

Benefit District

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

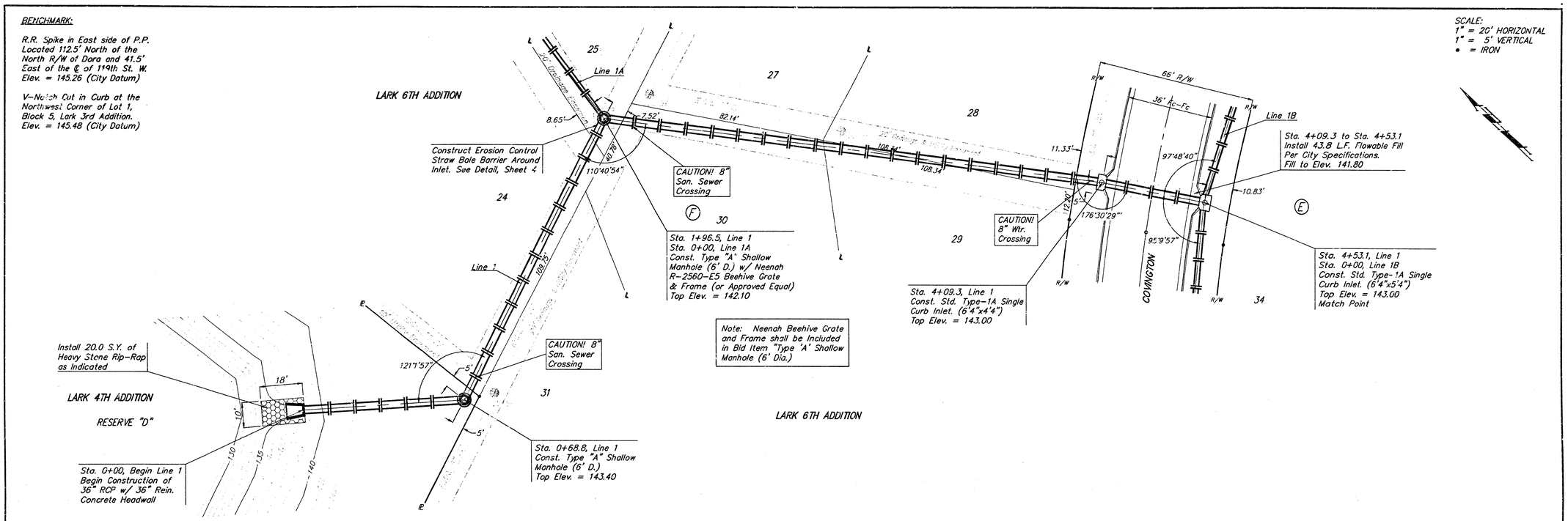
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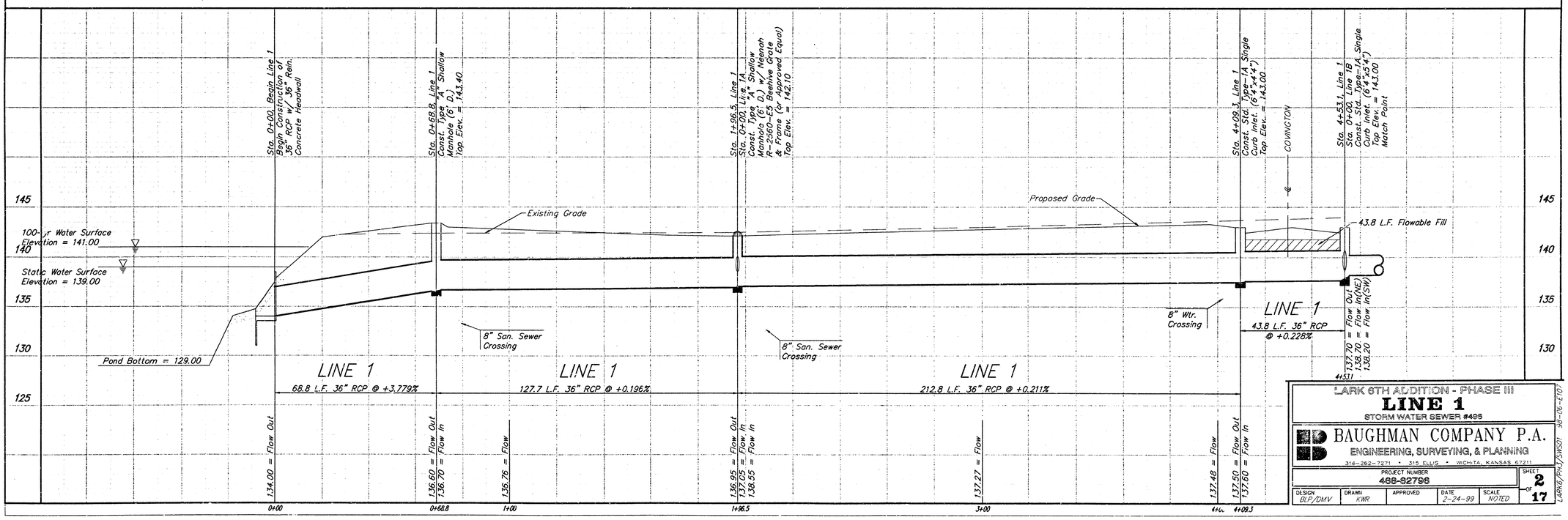
BENCHMARK:

R.R. Spike in East side of P.P. Located 112.5' North of the North R/W of Dora and 41.5' East of the ℄ of 119th St. W. Elev. = 145.26 (City Datum)

V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON





LARK 6TH ADDITION - PHASE III

LINE 1

STORM WATER SEWER #488

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

PROJECT NUMBER				SHEET
488-82798				2 OF 17
DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP/DMV	KWR		2-24-99	NOTED

LARK6/PH3/SWS01 98-05-E10'

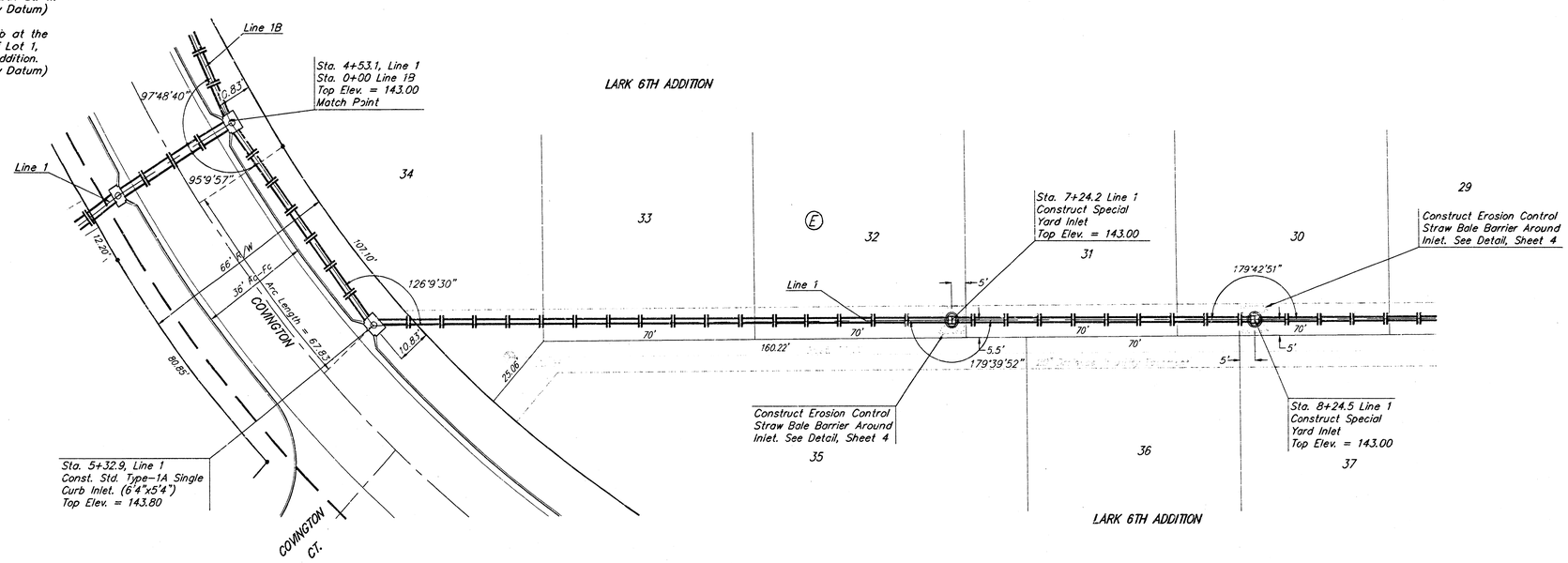
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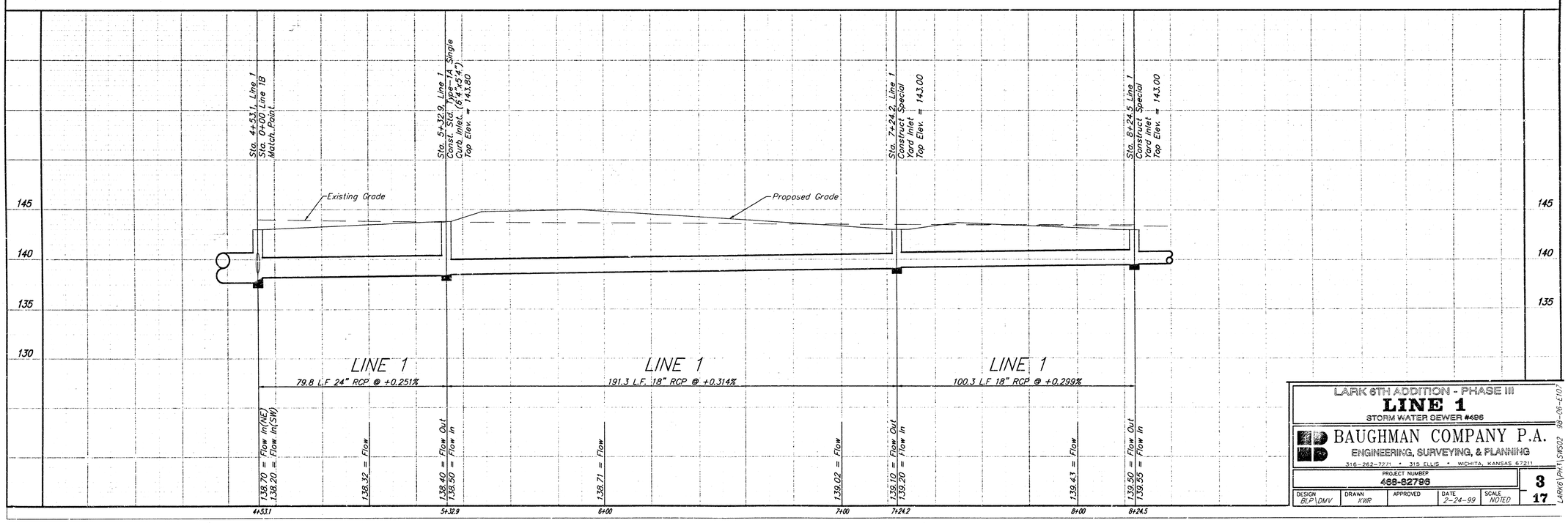
BENCHMARK:

R.R. Spike in East side of P.P. Located 112.5' North of the North R/W of Dora and 41.5' East of the ℄ of 119th St. W. Elev. = 145.26 (City Datum)

V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON





LARK 6TH ADDITION - PHASE III
LINE 1
STORM WATER SEWER #496

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

PROJECT NUMBER					
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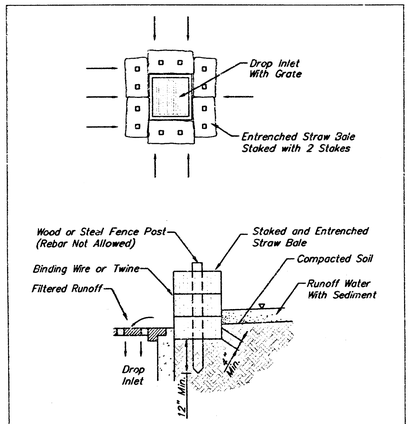
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LARK6\PH1\SW502

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V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

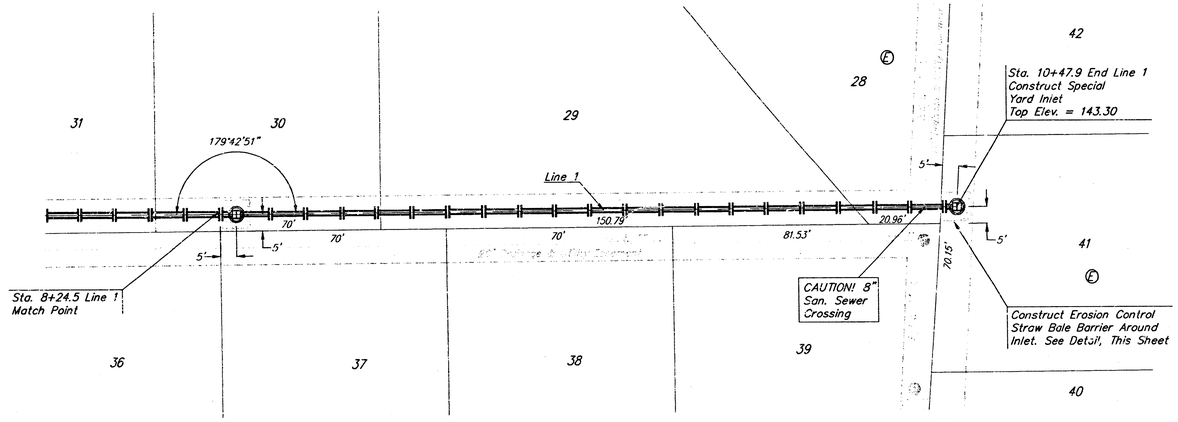


Straw Bale Barrier Detail

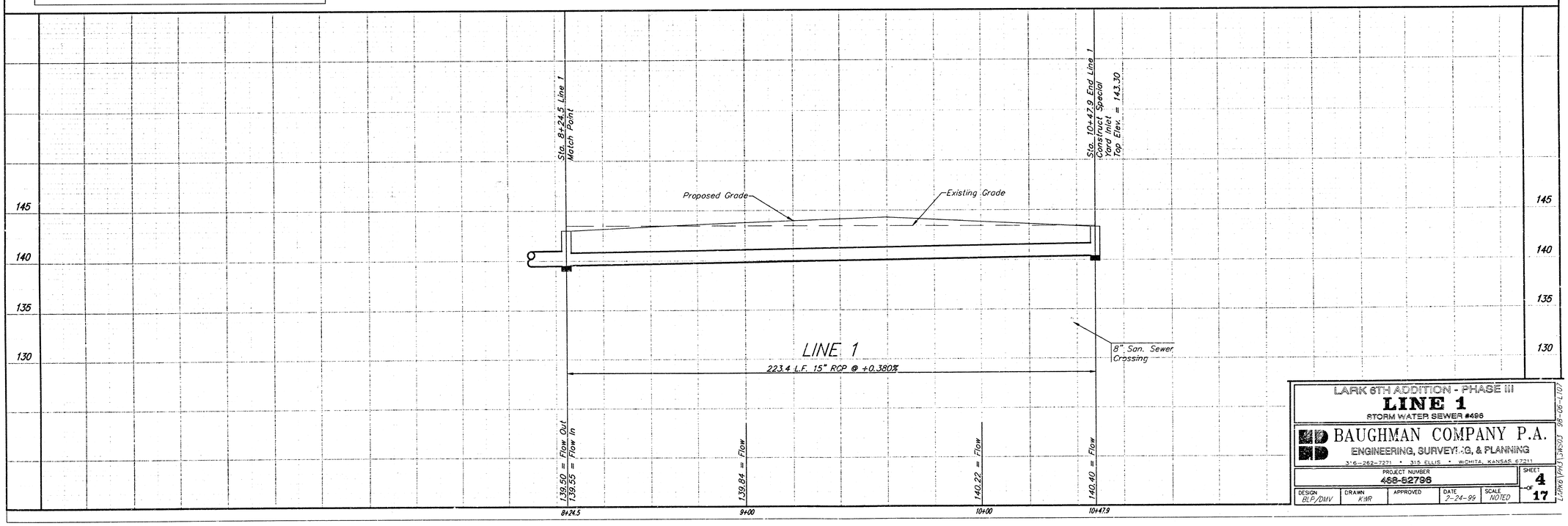
Note: Straw Bale Barriers to be Paid per Each as Inlet Sediment Barriers.

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

LARK 6TH ADDITION



LARK 6TH ADDITION



LARK 6TH ADDITION - PHASE III

LINE 1

STORM WATER SEWER #466

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

PROJECT NUMBER	SHEET
468-82796	4 OF 17

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLF/DMV	KWR		2-24-99	NOTED

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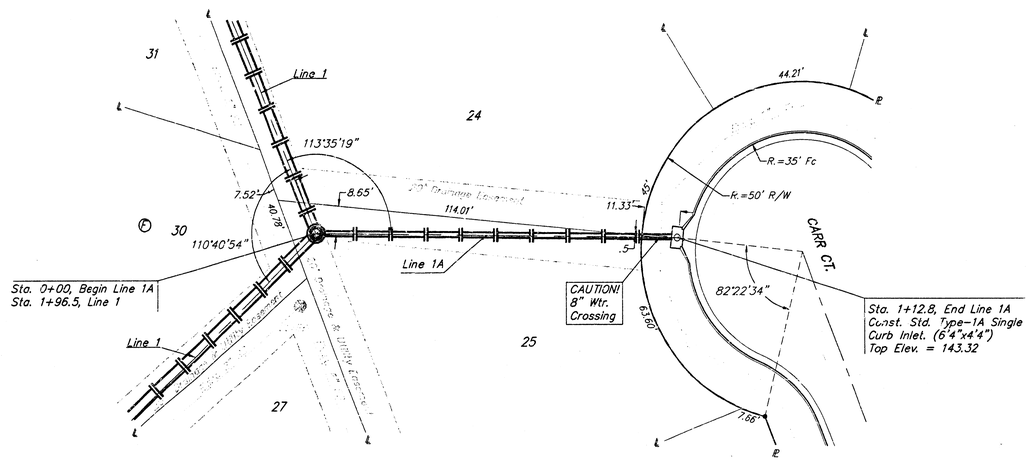
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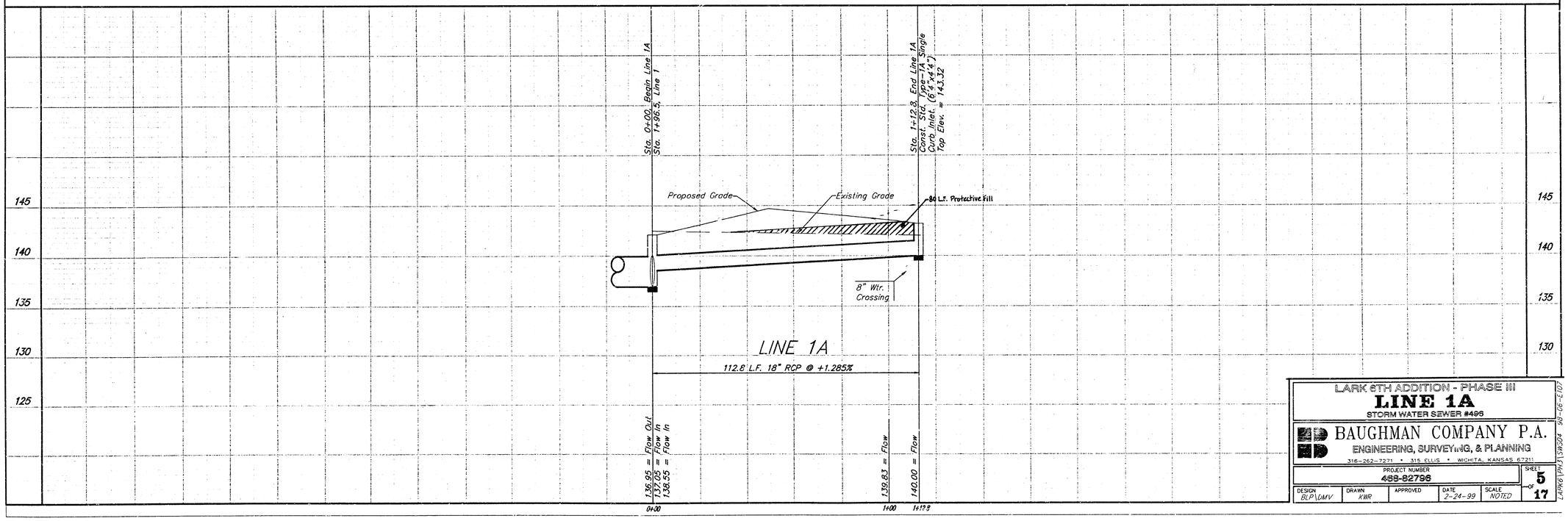
V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

LARK 6TH ADDITION



LARK 6TH ADDITION

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON



LARK 6TH ADDITION - PHASE III

LINE 1A

STORM WATER SEWER #496

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

PROJECT NUMBER	SHEET
488-82796	5 of 17

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP\DMV	KWR		2-24-99	NOTED

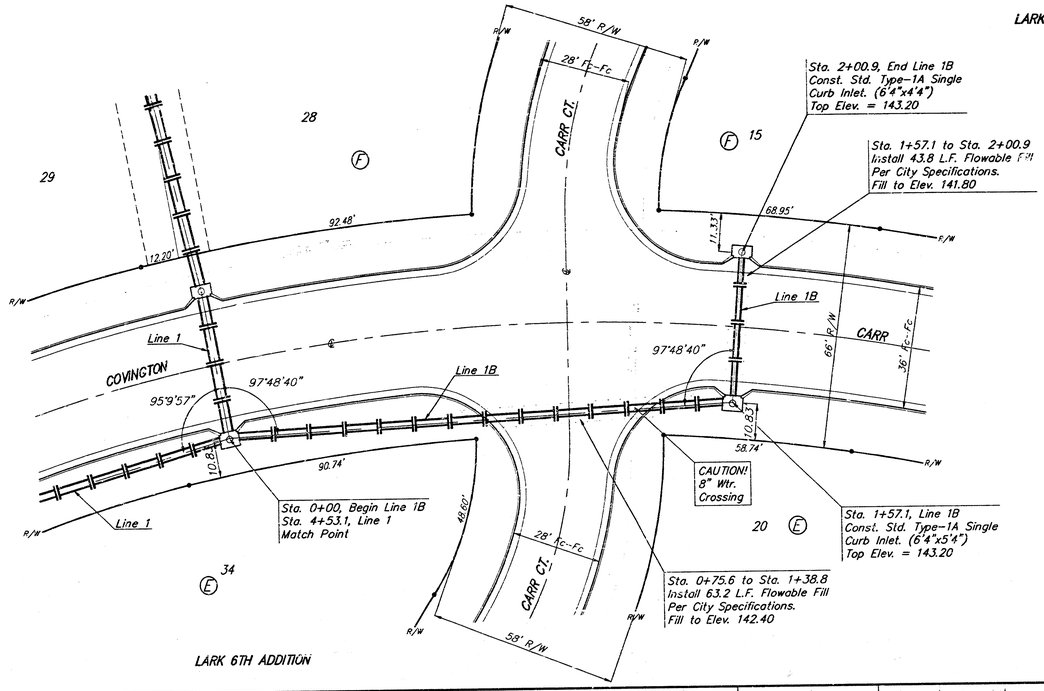
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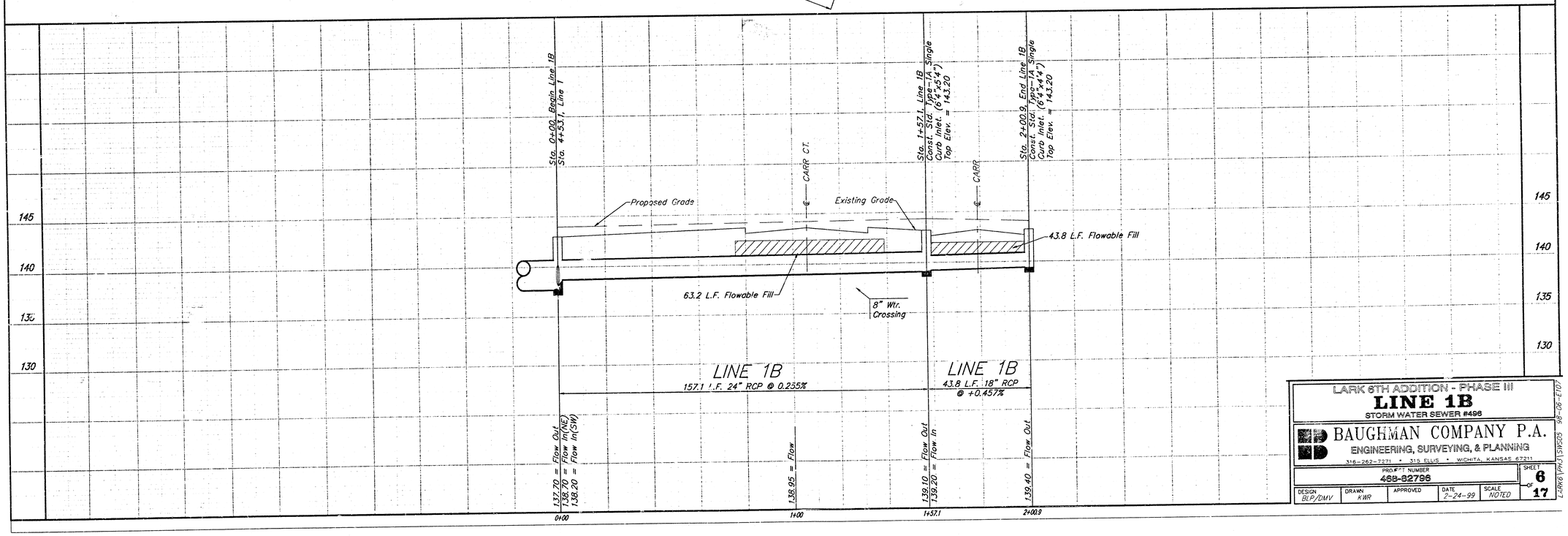
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R.R. Spike in East side of P.P. Located 112.5' North of the North R/W of Dora and 41.5' East of the ℄ of 119th St. W. Elev. = 145.26 (City Datum)

V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)



SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON



LARK 6TH ADDITION - PHASE III

LINE 1B

STORM WATER SEWER #498

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

PROJECT NUMBER 488-82796

SHEET 6 OF 17

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP/DMV	KWR		2-24-99	NOTED

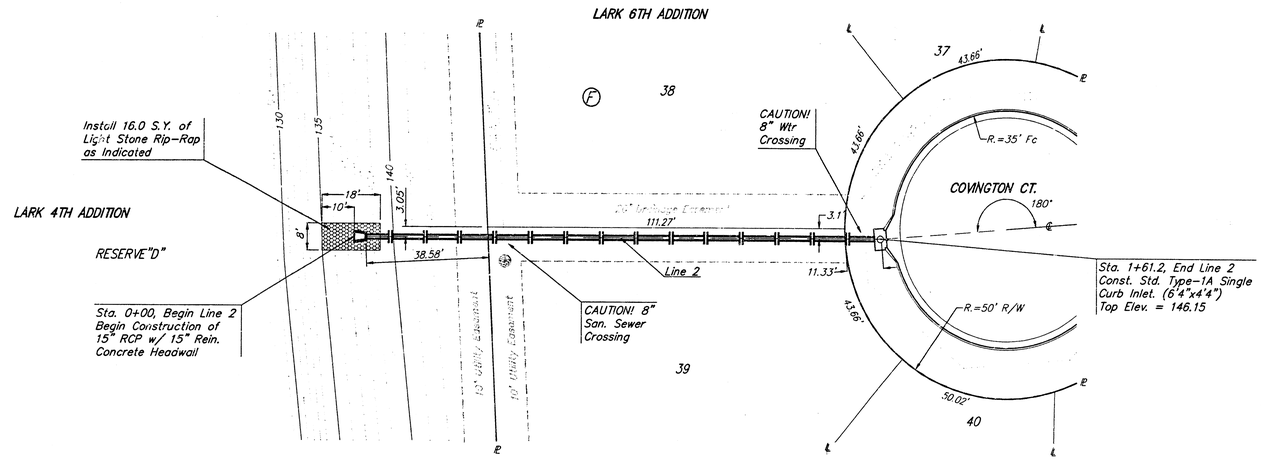
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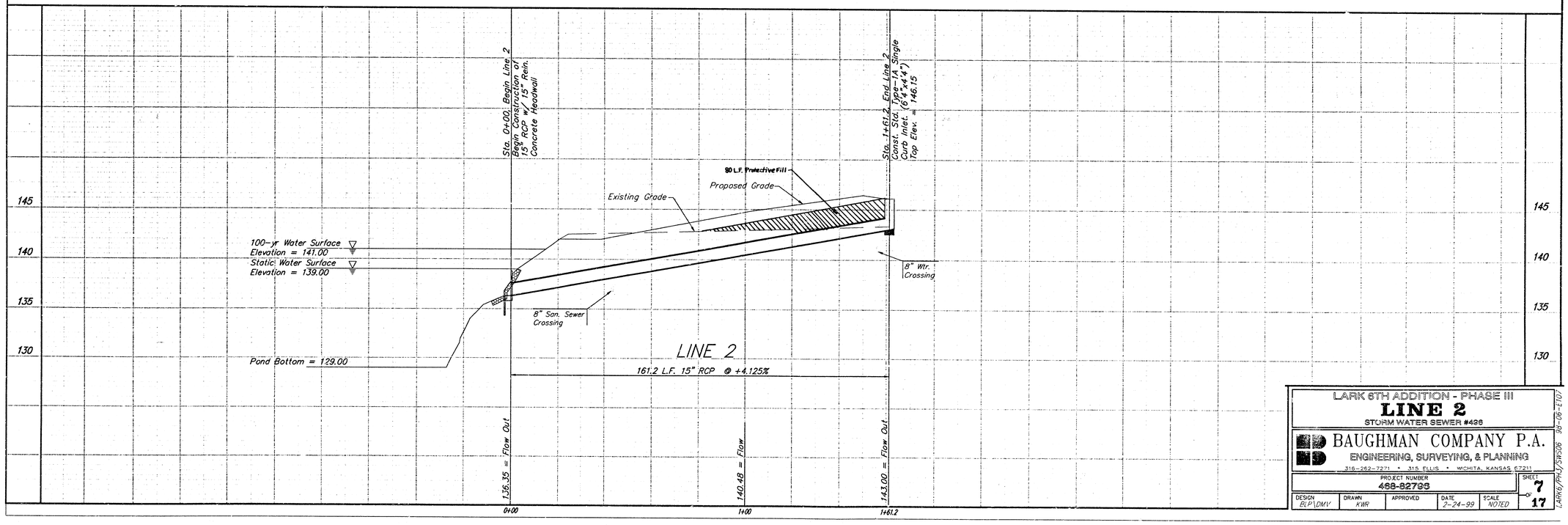
BENCHMARK:

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SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON



LARK 6TH ADDITION - PHASE III

LINE 2

STORM WATER SEWER #426

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

PROJECT NUMBER					SHEET
468-82733					7 OF 17
DESIGN	DRAWN	APPROVED	DATE	SCALE	
BLP\DMV	KWR		2-24-99	NOTED	

LARKS/PHASIII/SW506 96-06-1107

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BENCHMARK:

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V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

ATCHISON, TOPEKA, AND SANTA FE RAILROAD

Construct Erosion Control Straw Bale Barrier Around Inlet. See Detail, Sheet 4

Sta. 0+73.0, Line 3 Const. Special Yard Inlet Top Elev. = 141.00

Sta. 4+09.9 Line 3 Construct Special Yard Inlet Top Elev. = 142.00 Match Point

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

LARK 4TH ADDITION
RES. "D"

CAUTION! Underground SWB Line Crossing

CAUTION! 8" Sanitary Sewer Crossing

Construct Erosion Control Straw Bale Barrier Around Inlet. See Detail, Sheet 4

141.67' 70' 102.90' 180' 13.75' 13.75' 16.55' 34.31' 7.59' 127°13'21"

22 21 20 19 23

LARK 6TH ADDITION

Note: SWB Pedestals to be Relocated by Others prior to Construction. Contractor to Contact Greg Sharpe with Southwestern Bell at 268-2245 at least 1 week prior to Constr. to Coordinate Relocation.

Sta. 0+00, Begin Line 3 Begin Construction of 15" RCP w/ 15" Rein. Concrete Headwall

Install 16.0 S.Y. of Light Stone Rip-Rap as Indicated

52.06' 10.13' 4.82'

Sta. 0+00, Begin Line 3 Begin Construction of 15" RCP w/ 15" Rein. Concrete Headwall

Sta. 0+73.0, Line 3 Const. Special Yard Inlet Top Elev. = 141.00

CAUTION! UG SWB Crossing

Sta. 4+09.9 Line 3 Construct Special Yard Inlet Top Elev. = 142.00 Match Point

Existing Grade

Proposed Grade

100-yr Water Surface Elevation = 141.00

Static Water Surface Elevation = 139.00

Pond Bottom = 129.00

CAUTION! 8" Sanitary Sewer Crossing

LINE 3
73.0 L.F. 15" RCP +2.123%

LINE 3
336.9 L.F. 15" RCP @ +0.386%

135.55 = Flow Out

137.10 = Flow Out
137.20 = Flow In

137.30 = Flow

137.69 = Flow

138.08 = Flow

138.46 = Flow

138.50 = Flow
4+09.9

0+00 0+73.0 1+00 2+00 3+00 4+00

145 140 135 130

LARK 6TH ADDITION - PHASE III

LINE 3

STORM WATER SEWER #488

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

PROJECT NUMBER	SHEET
488-82796	8 of 17

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP\DMV	KWR		2-24-99	NOTED

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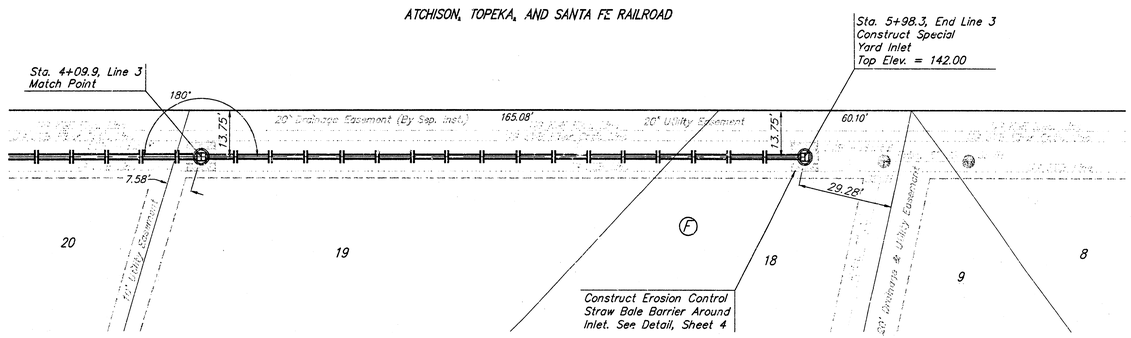
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BENCHMARK:

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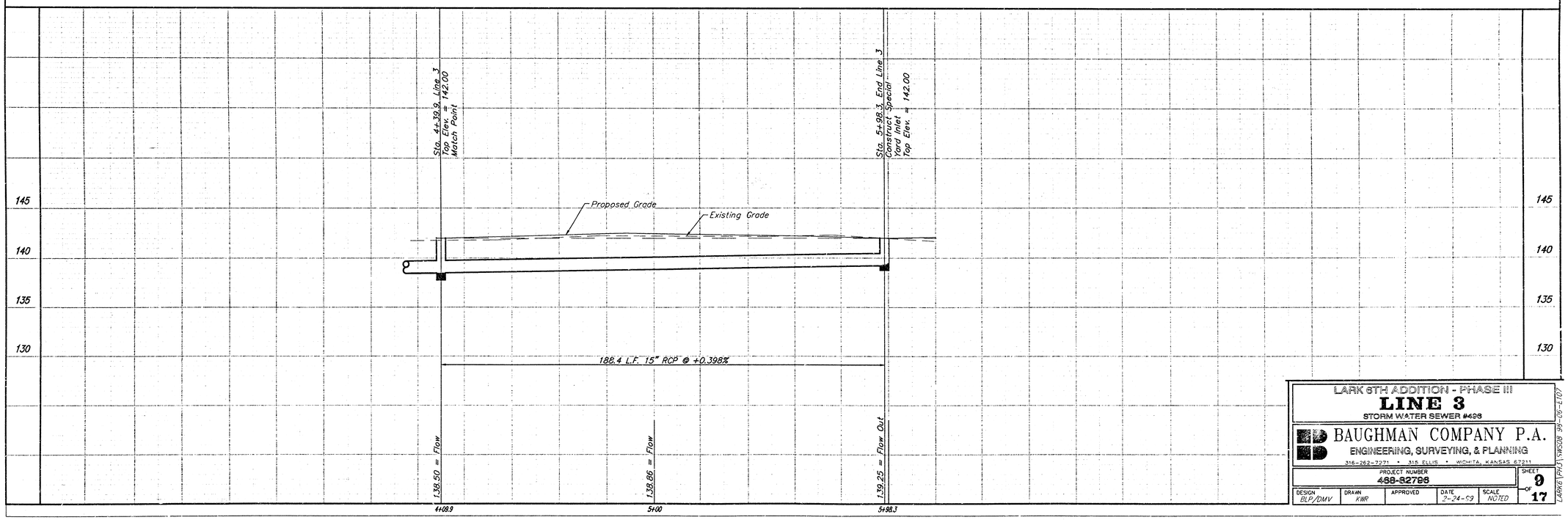
V-Notch Cut in Curb at the Northwest Corner of Lot 1, Block 5, Lark 3rd Addition. Elev. = 145.48 (City Datum)

Note: SWB Pedestals to be Relocated by Others prior to Construction. Contractor to Contact Greg Sharpe with Southwestern Bell at 268-2245 at least 1 week prior to Constr. to Coordinate Relocation.



SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

LARK 6TH ADDITION



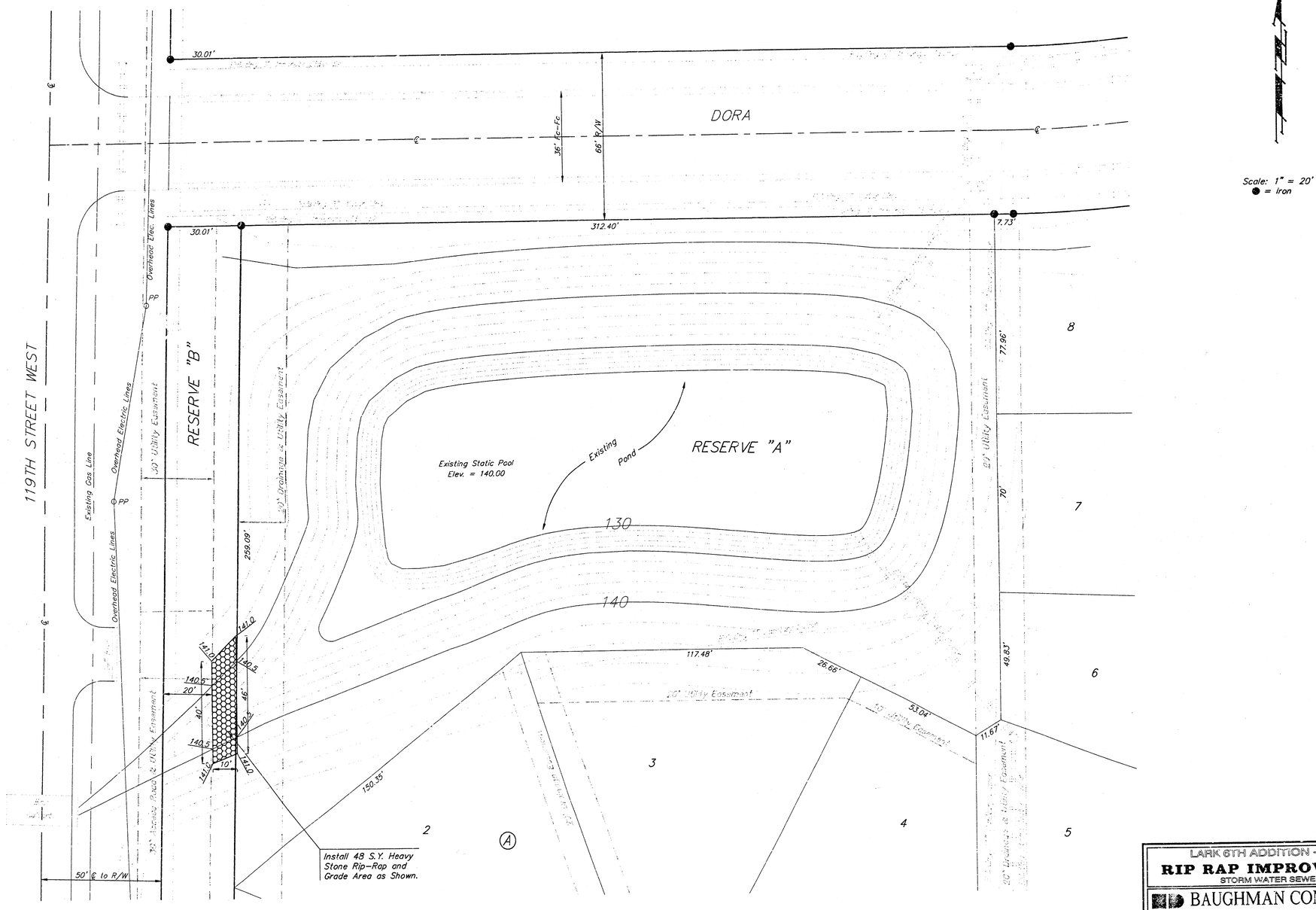
LARK 6TH ADDITION - PHASE III
LINE 3
STORM WATER SEWER #498

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

PROJECT NUMBER					SHEET
488-82786					9 OF 17
DESIGN	DRAWN	APPROVED	DATE	SCALE	
BLP/DMV	KWR		2-24-99	NOTED	

LARK6\PH3\SW508 99-06-2107

02/24/1999 15:51:23 RIPRAP.DWG



LARK 6TH ADDITION - PHASE III

RIP RAP IMPROVEMENTS

STORM WATER SEWER #496

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

PROJECT NUMBER					SHEET
498-82796					10 of 17
DESIGN	DRAWN	APPROVED	DATE	SCALE	
BLP/DMV	KWR		2-17-99	NOTED	

LARK6 PH3 RIPRAP

02/24/1999 14:10:24 SWEESMT.DWG

NOTE:

Proposed top of foundation elevations are shown on plans. Contractor to set finish floor elevation.

All street elevations shown on plans are for top of curb (full height).

View-out elevations are denoted as XX.X V.O.

BENCHMARK:

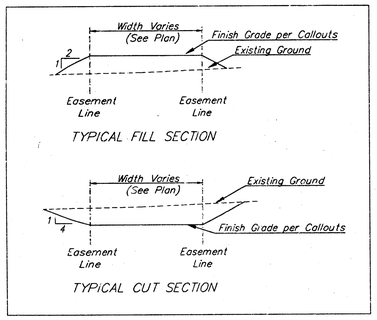
City of Wichita Bench Mark Disc, N. End of W. Headwall of R.C.B.C., Lark & Map Elev. = 1139.20 (City Datum)

= Easements To Be Graded

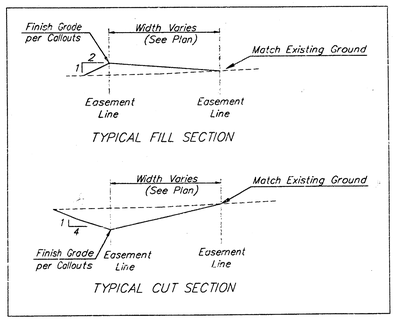
Approximate Easement Grading Quantities: (For Information Only)
Excavation: 130 C.Y.
Fill: 1170 C.Y.

The contractor shall grade the easements as shown to the elevations given on the easement grading plan. All costs for grading shall be incidental to the Easement Grading Bid Item.

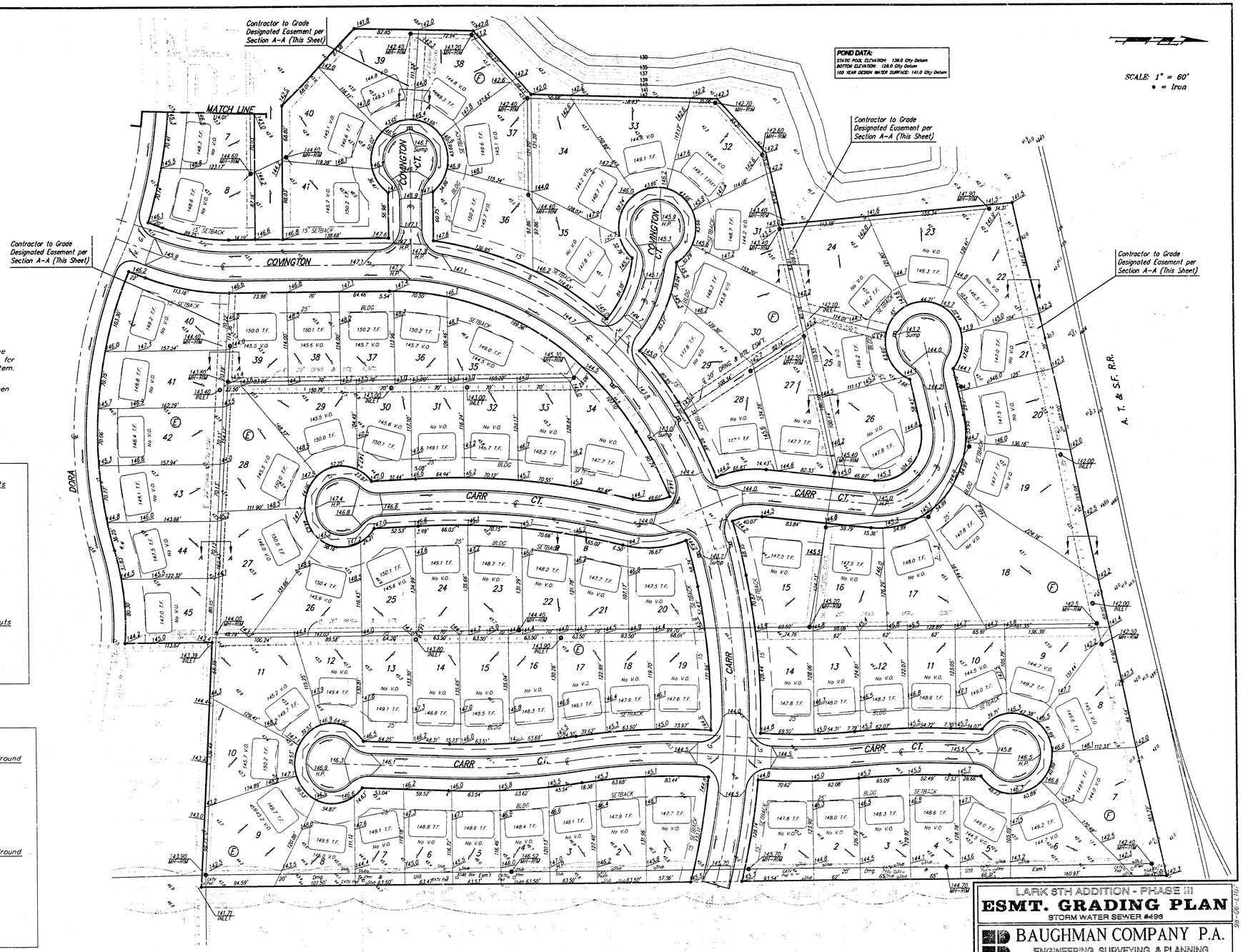
The contractor shall 'straight' grade the easements between the elevations given. Where a callout designates 'Match', the contractor will grade to the existing ground elevation.



SECTION A-A



SECTION B-B



LARK 6TH ADDITION - PHASE III

ESMT. GRADING PLAN

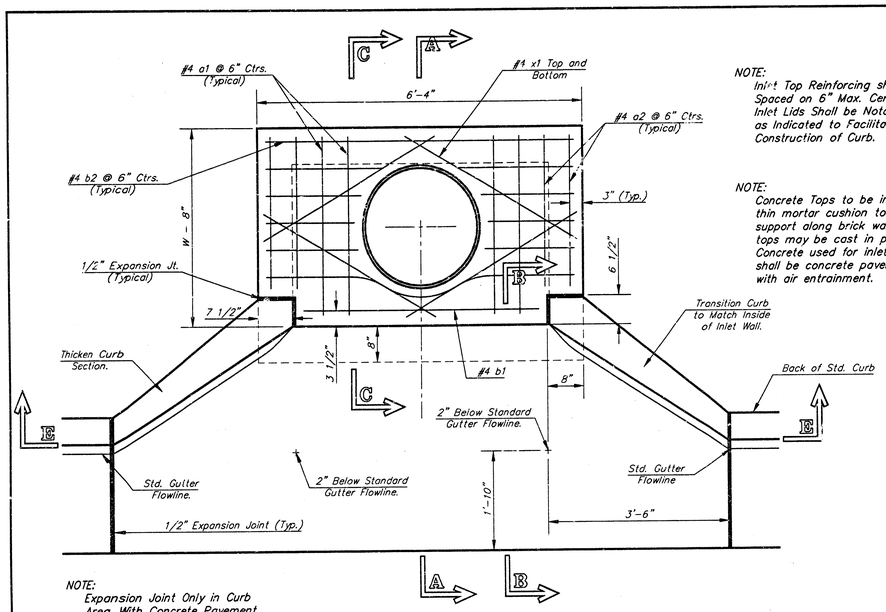
STORM WATER SEWER #496

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

PROJECT NUMBER				SHEET
468-				11 of 17
DESIGN	DRAWN	APPROVED	DATE	SCALE
DMV	BLP		2-24-99	NOTED

SWEESMT
99-08-L1101

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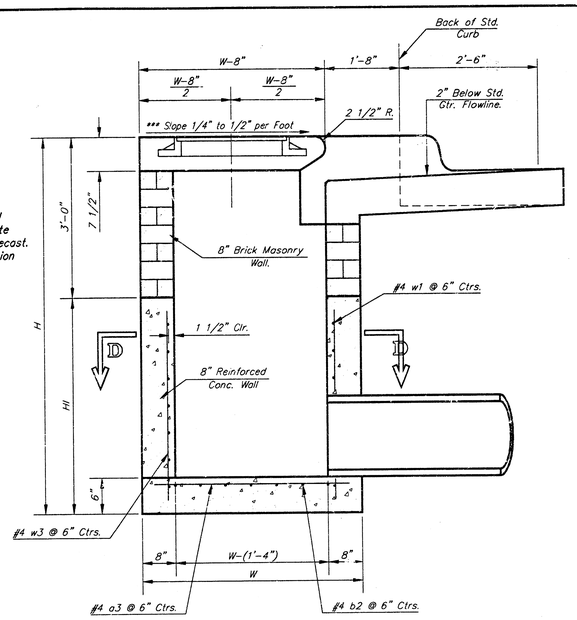


NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

PLAN

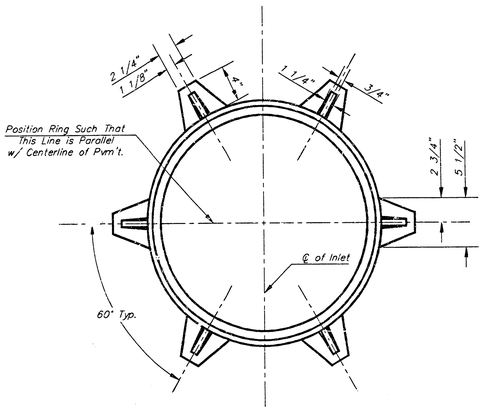
NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

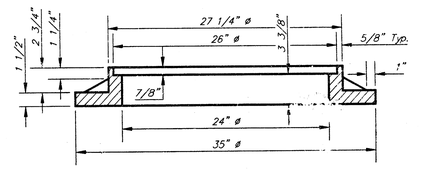
NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



SECTION A-A

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

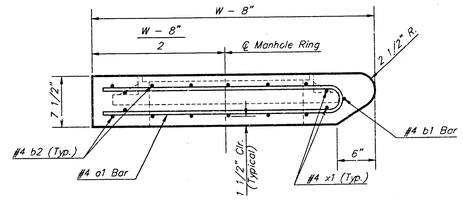




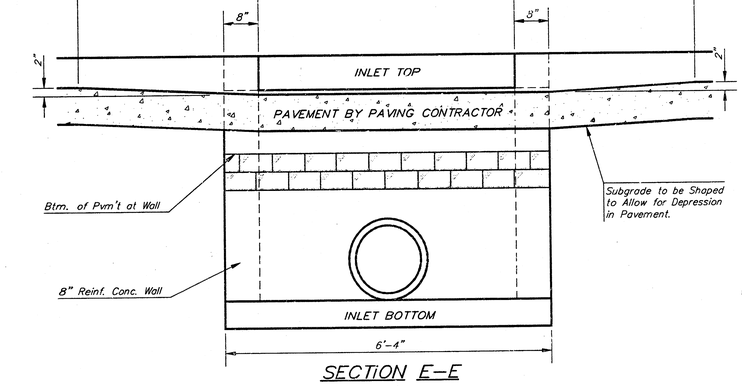
MANHOLE RING AND COVER

Weight = 180 Lbs.

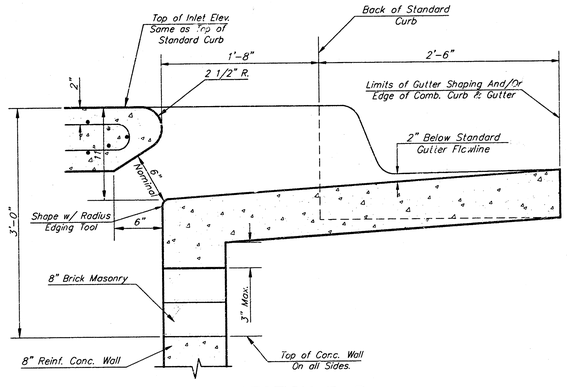
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



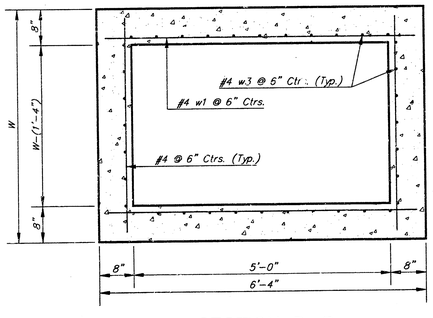
SECTION A-A



SECTION E-E



SECTION B-B



SECTION D-D

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.

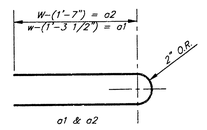
The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

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"



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.38±
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±

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A

Curb Inlet Details

INLET OPENING = 6' X 7'-0"

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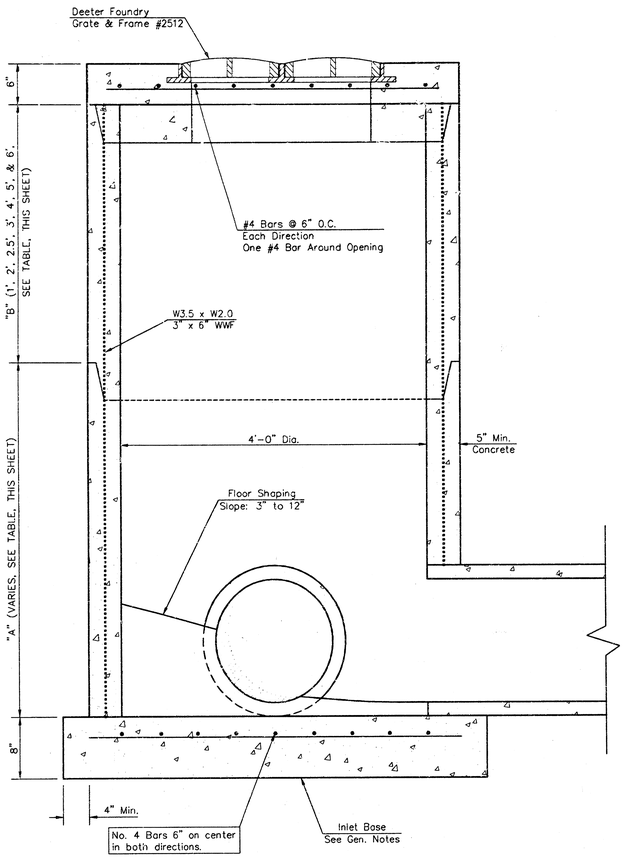
PROJECT NUMBER 468-82796

SHEET 12 OF 17

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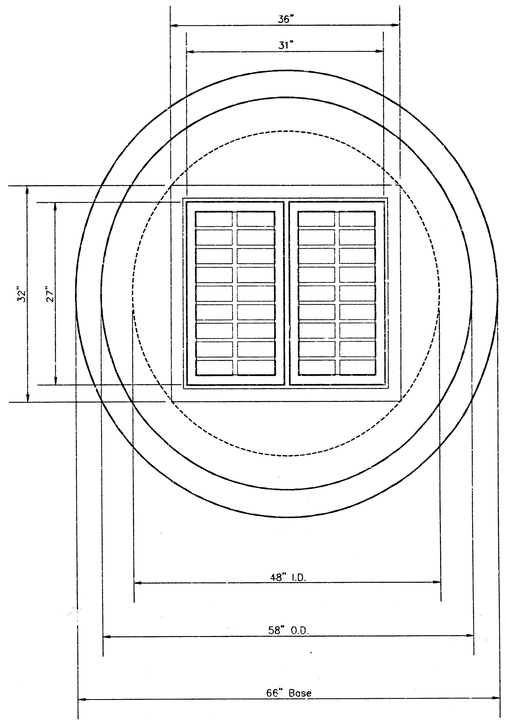
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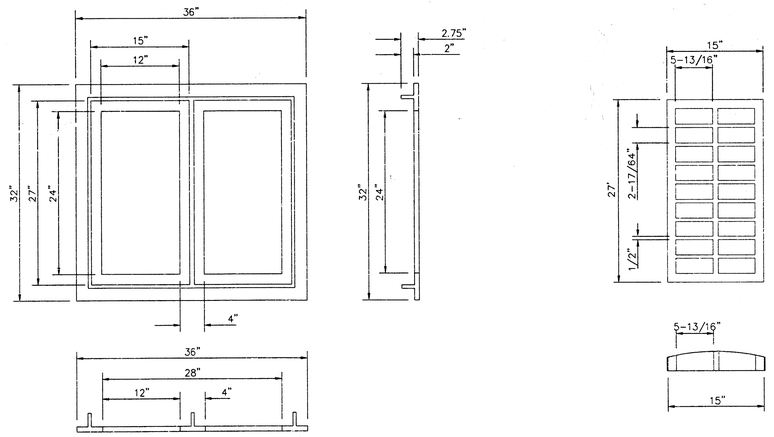
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YARD INLET

LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
1	7+24.2	143.00	139.10	2.40'	1'
1	8+24.5	143.00	139.50	3.00'	–
1	10+47.9	143.30	140.40	2.40'	–
3	0+73.0	141.00	137.10	2.00'	1'
3	4+09.9	142.00	138.50	2.40'	1'
3	5+98.3	142.00	139.25	2.25'	–





DEETER #2512 CATCH BASIN INLET GRATE & FRAME

GENERAL NOTES

1. Mortar used in masonry construction shall contain 3 sacks of cement per cubic yard. Concrete used in yard inlet 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.
2. Reinforcing steel shall be installed in the yard inlet bases and shall consist of no. 4 bars placed on 6" centers in both directions. The yard inlet base reinforcement shall be placed 6" above the bottom of the yard inlet base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the yard inlet.
3. The floors of all yard inlet shall be shaped with flow channels such that the inlets will be self cleaning and free of areas where solids could be deposited. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Inlet 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 inlets shall have the top half removed to neat lines for the full inside diameter of the inlet. Inlet 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 inlet shall be cradled with concrete to the limits of the inlet excavation. When clay pipe is used, the cradle shall extend to the first joint outside the inlet. 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 inlet excavation or to clay pipe joints adjacent to inlet shall be included in the unit price bid for the inlet.
5. Inlet grate castings and inlet frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawing.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Joints between inlet sections to be sealed with two two wraps of extruded butyl rubber joint mastic meeting City of Wichita Type "P" Manhole Specifications.
8. Special yard inlet shall be paid for at the unit price bid per each. All standard yard inlet diameters will be 4'.

SPECIAL YARD INLET

WICHITA, KANSAS

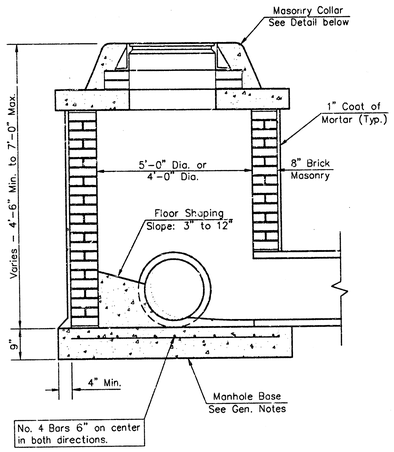
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
488-82796	13 of 17

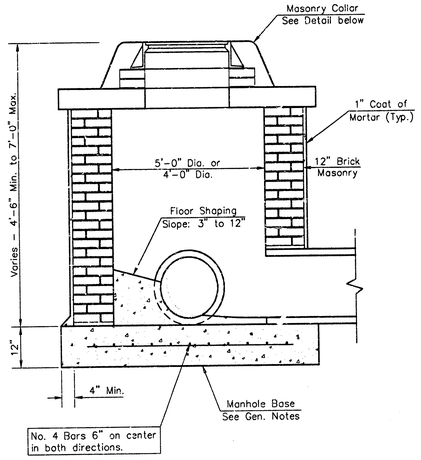
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DETAILS\Yardinlet

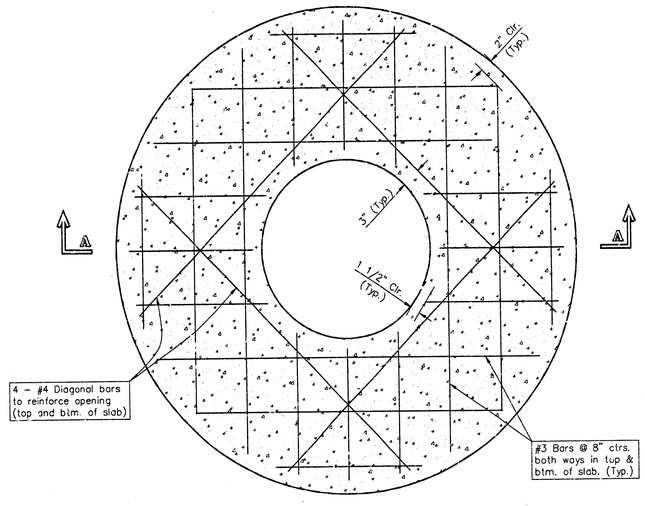
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SHALLOW TYPE "A" MANHOLE



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 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.

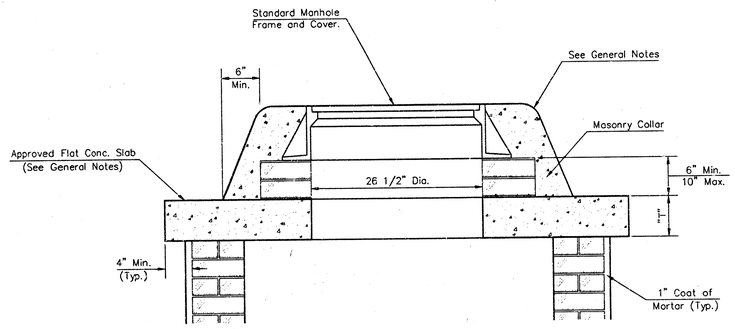
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain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

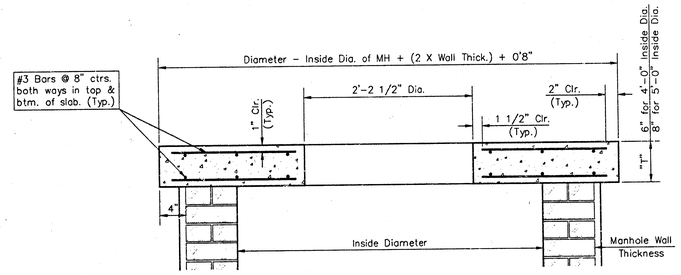
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "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.

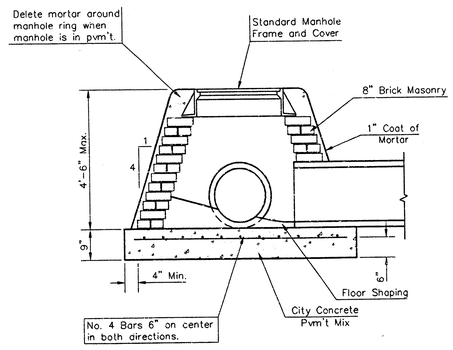


MASONRY COLLAR DETAIL

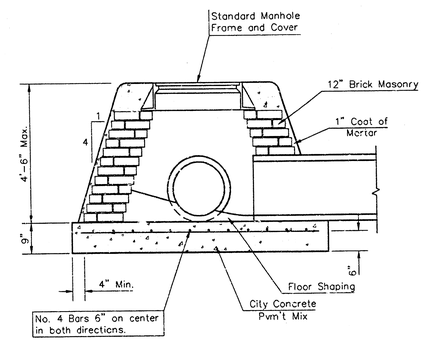


SECTION A-A

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 468-82796

SHEET 14 OF 17

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	Staff			NONE

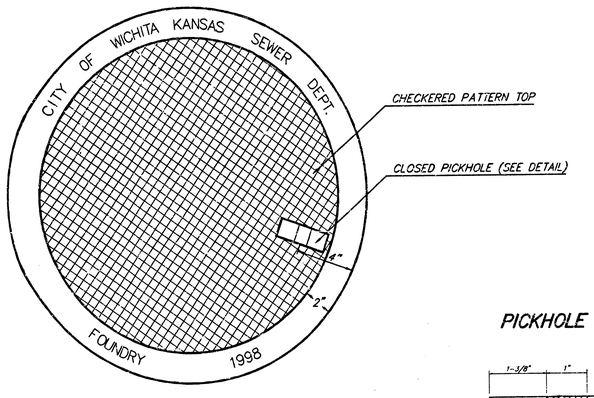
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MANHOLE FRAME AND COVER DETAIL

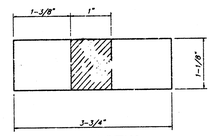
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

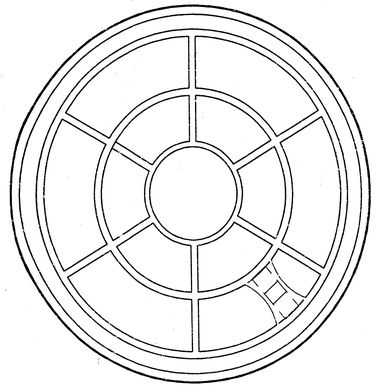


TOP VIEW

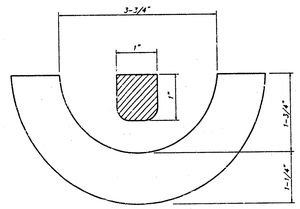
PICKHOLE DETAIL



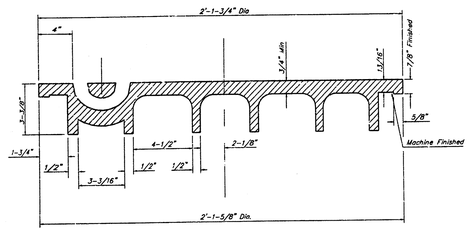
TOP VIEW



BOTTOM VIEW

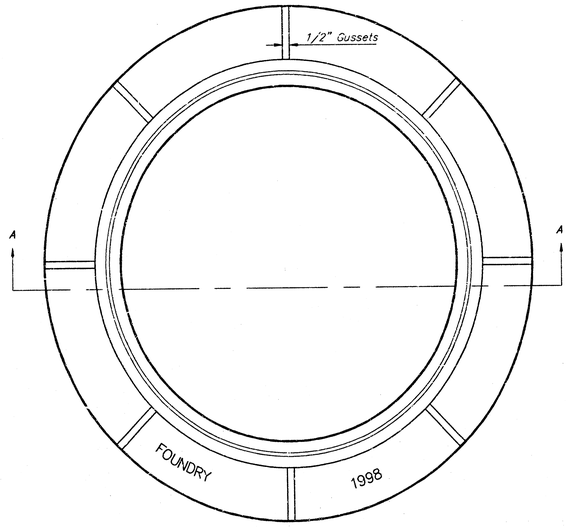


SECTION VIEW

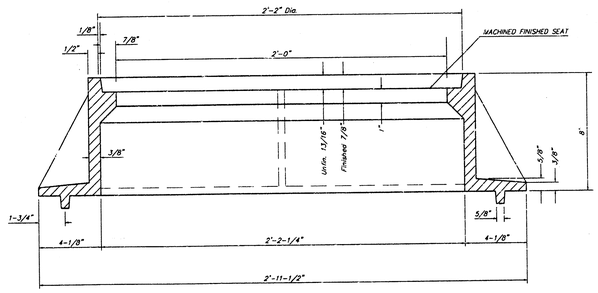


SECTION VIEW

MANHOLE FRAME
Weight = 145 Lbs.



TOP VIEW



SECTION A–A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

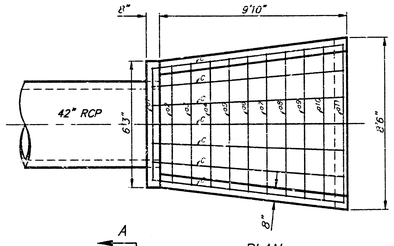
MANHOLE FRAME AND COVER DETAIL
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
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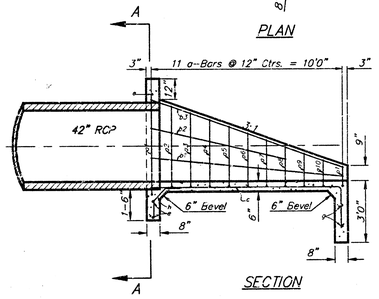
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468-32795				15 OF 17
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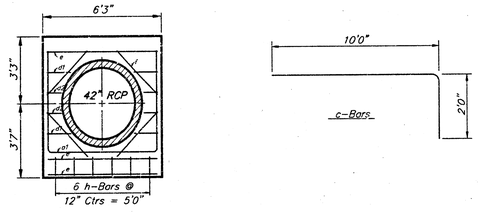
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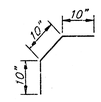
PLAN

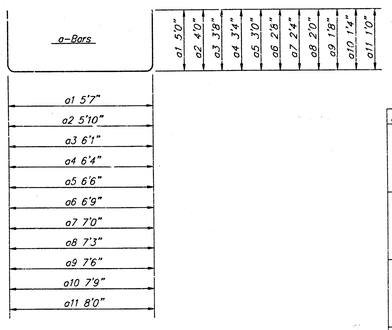


SECTION



SECTION A-A





REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	15'7"	10.41
a2		1	13'10"	9.24
a3		1	13'5"	8.96
a4		1	13'0"	8.68
a5		1	12'6"	8.35
a6		1	12'1"	8.07
a7		1	11'8"	7.79
a8		1	11'3"	7.52
a9		1	10'9"	7.18
a10		1	10'5"	6.96
a11		1	10'0"	6.68
b1	——	2	10'2"	13.58
b2	——	2	7'3"	9.69
b3	——	2	10'8"	14.25
c		7	12'0"	56.11
d1	——	4	1'3"	3.34
d2	——	4	9"	2.00
e	——	3	5'10"	11.69
f	——	4	3'0"	30.06
g	——	2	8'0"	10.69
h		6	2'6"	6.68
Total Rebar				247.93 Lbs.
Concrete				10.12 C.Y.

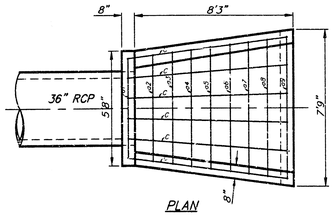
HEADWALL FOR 42" RCP

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

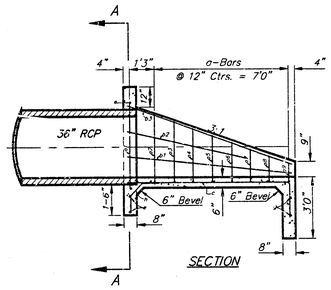
* Field Bend or Cut Reinforcing as Required for Clearance.

All Concrete Reinforcement to be #4 Rebar

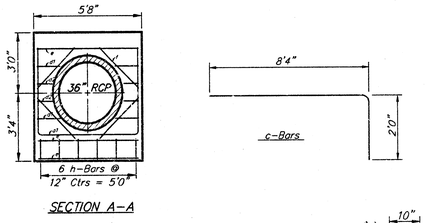
All Rebar to Have Min. of 1 1/2" Conc. Cover



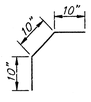
PLAN

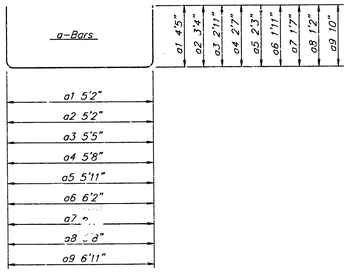


SECTION



SECTION A-A





REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	14'0"	9.35
a2		1	11'10"	7.90
a3		1	11'3"	7.52
a4		1	10'10"	7.24
a5		1	10'5"	6.96
a6		1	10'0"	6.68
a7		1	9'7"	6.40
a8		1	9'0"	6.01
a9		1	8'7"	5.73
b1	——	2	8'5"	11.24
b2	——	2	4'7"	6.12
b3	——	2	9'0"	12.02
c		6	10'4"	41.42
d1	——	4	1'6"	4.01
d2	——	4	10"	2.23
e	——	3	5'4"	10.69
f	——	4	3'0"	8.02
g	——	2	7'0"	9.35
h		6	2'6"	10.02
Total Rebar				178.91 Lbs.
Concrete				3.20 C.Y.

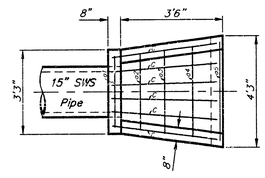
HEADWALL FOR 36" RCP

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

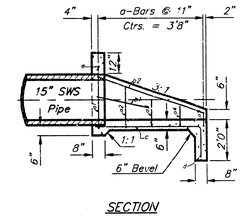
* Field Bend or Cut Reinforcing as Required for Clearance.

All Concrete Reinforcement to be #4 Rebar

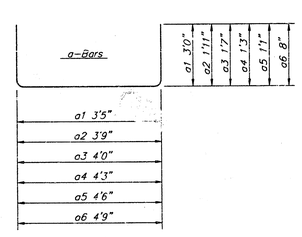
All Rebar to Have Min. of 1 1/2" Conc. Cover

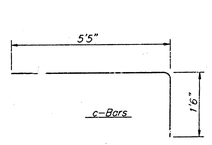


PLAN



SECTION





REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	9'5"	6.29
a2		1	7'7"	5.07
a3		1	7'2"	4.79
a4		1	6'9"	4.51
a5		1	6'4"	4.23
b1	——	2	2'9"	3.67
b2	——	2	5'10"	7.79
c		6	6'11"	27.72
d	——	1	5'0"	3.37
e	——	1	3'10"	2.56
Total Rebar				74.03 Lbs.
Concrete				1.40 C.Y.

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

All Concrete Reinforcement to be #4 Rebar

All Rebar to Have Min. of 1 1/2" Conc. Cover

HEADWALL FOR 15" PIPE

GENERAL NOTES

1. ALL PIPES SHALL BE FLUSH CUT PRIOR TO BEING CAST INTO CONCRETE HEADWALL
2. CONCRETE USED IN HEADWALL CONSTRUCTION SHALL BE SAME AS PER CITY STANDARD PAVING MIX EXCEPT THAT IT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
3. ALL EXPOSED EDGES SHALL BE BEVELED 1/2".
4. REINFORCING STEEL SHALL COMPLY TO A.S.T.M. DESIGNATION A615 GRADE 60. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.

HEADWALL DETAIL

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

PROJECT NUMBER	SHEET
468-82796	16 of 17

DESIGN	DRAWN	APPROVED	DATE	SCALE

LARK 6TH ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS

LIBRARY COPY
SEDGWICK COUNTY, KANSAS
REGISTER OF DEEDS

aforesaid County and State do hereby certify that we have surveyed and platted "LARK 6TH ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a replat of Lots 1, 2, 3, 4, 5, 6, 7, 8, and 9, Block C, Lark Addition, Wichita, Sedgwick County, Kansas, together with all of Dora Ct. lying within said Block C, together with all of Reserve "C" as platted in said Lark Addition, together with a replat of a part of Reserve "A", Lark 4th Addition, Wichita, Sedgwick County, Kansas, and together with a tract of land in the in the NW1/4 of Sec. 31, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick County, Kansas, described as follows:
Beginning at the southeasterly most corner of Reserve "C" in said Lark Addition; thence N01°20'46"E along the east line of said Reserve "C" and along the east line of Block C in said Lark Addition, 410.17 feet to the NE Corner of said Block C, said NE Corner also being on the south right-of-way line of Dora as platted in said Lark Addition; thence N89°43'07"E along the south right-of-way line of said Dora, 10 feet to the P.C. of a curve to the left; thence northeasterly along said curve, having a central angle 36°44'04" and a radius of 500 feet, an arc distance of 320.57 feet, (having a chord length of 315.11 feet bearing N71°21'05"E), to the P.R.C. of a curve to the right in said south right-of-way line; thence northeasterly, easterly, and southeasterly along said curve, having a central angle of 66°41'39" and a radius of 450 feet, an arc distance of 523.81 feet, (having a chord length of 494.74 feet bearing N86°19'52"E) to the P.R.C. of a curve to the left in said south right-of-way line; thence southeasterly along said curve, having a central angle of 16°00'04" and a radius of 500 feet, an arc distance of 139.64 feet, (having a chord length of 139.18 feet bearing S68°19'20"E); thence N01°20'46"E, 67.81 feet to a point on the north right-of-way line of said Dora, said point also being the southwesterly most corner of Reserve "A", Lark 4th Addition, Wichita, Sedgwick County, Kansas; thence southeasterly along the south line of said Reserve "A", said south line being a curve to the left, having a central angle of 05°15'29" and a radius of 434 feet, an arc distance of 39.83 feet, (having a chord length of 39.82 feet bearing S77°02'23"E) to a deflection point in said Reserve "A"; thence N01°20'46"E along a line of said Reserve "A", 124.64 feet to a deflection point in said Reserve "A"; thence N89°43'07"E along a line of said Reserve "A", 586.16 feet to a point 1.00 foot west of a deflection point in said Reserve "A"; thence N00°23'48"W parallel with and 1.00 foot normally distant west of a line of said Reserve "A", 35.56 feet to a point on a line of said Reserve "A", said point being 1.00 foot west of a deflection point in said Reserve "A"; thence S89°43'07"W along a line of said Reserve "A", 166.83 feet to a deflection point in said Reserve "A"; thence N44°28'04"W along a line of said Reserve "A", 135.39 feet to a deflection point in said Reserve "A"; thence N01°20'46"E along a line of said Reserve "A", 155.79 feet to a deflection point in said Reserve "A"; thence N46°20'46"E along a line of said Reserve "A", 108.50 feet to a deflection point in said Reserve "A"; thence N01°20'46"E along a line of said Reserve "A", 244.58 feet to a deflection point in said Reserve "A"; thence N46°20'46"E along a line of said Reserve "A", 93.21 feet to a deflection point in said Reserve "A"; thence N76°55'47"E along a line of said Reserve "A", 92.01 feet to a deflection point in said Reserve "A"; thence N05°30'00"W along a line of said Reserve "A", 303.04 feet to the NE Corner of said Reserve "A", said NE Corner being on the southeasterly right-of-way line of the Atchison, Topeka, and Santa Fe Railroad; thence N76°55'50"E along said southeasterly right-of-way line, 607.64 feet to a deflection point in said southeasterly right-of-way line; thence N76°55'47"E along said southeasterly right-of-way line, 249.86 feet to the NW Corner of Lot 8, Block 1, Lark 3rd Addition, Wichita, Sedgwick County, Kansas; thence S00°23'48"E along the west line of said Lark 3rd Addition, 1263.88 feet to the NE Corner of Lot 31, Block 5, in said Lark 3rd Addition; thence N86°53'08"W along the west line of said Lark 3rd Addition, 304.57 feet to the NW Corner of Lot 34 in said Block 5; thence S00°23'48"E along the west line of said Lot 34, 113.67 feet to the SW Corner of said Lot 34; thence S05°56'58"E, 65.26 feet to the NW Corner of Lot 19, Block 4, in said Lark 3rd Addition; thence S00°16'53"E along the west line of said Lot 19 and as extended south, 120.43 feet to the rear corner common to Lots 18 and 17 in said Block 4; thence S89°43'07"W along the north line of said Lot 17 and as extended west, 65.08 feet to a deflection point in the rear line of Lot 16 in said Block 4; thence S53°38'19"W along the rear line of said Lot 16 and as extended southwesterly, 168.23 feet to a deflection point in the rear line of Lot 15 in said Block 4; thence S01°20'46"W along the rear line of said Lot 15 and as extended south, 210 feet to the SW Corner of Lot 14 in said Block 4, said SW Corner being on the south line of the NW1/4 of said Sec. 31; thence S89°43'07"W along the south line of said NW1/4, 1869.04 feet to the point of beginning.
Existing public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, Blocks, Streets, and Reserves to be known as "LARK 6TH ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. The streets are hereby dedicated to and for the use of the public. Reserve "A" is hereby reserved for drainage purposes, lakes, landscaping, sidewalks, gazebos, open space, and utilities as confined to easements. Reserves "B" and "C" are hereby reserved for landscaping, open space, walls, entry monuments, and utilities as confined to easements. Reserves "D" and "E" are hereby reserved for open space and utilities as confined to easements. Reserves "A", "B", "C", "D", and "E" shall be owned and maintained by the Homeowners Association for the addition. All abutters rights of access to or from 119th Street West over and across the west line of Reserve "A" are hereby granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as shown on the face of the plat.

Kick'N Development Corporation

Paul E. Kelsey, President

State of Kansas) SS
Sedgwick County)
The foregoing instrument acknowledged before me, this 12th day of November, 1997, by Paul E. Kelsey, President of Kick'N Development Corporation, on behalf of the corporation.

KAREN WOLF, Notary Public
My App't. Exp. 7/25/99

KAREN WOLF
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7/25/99

× = CROSS (SET)
• = 1/2" REBAR W/ "BAUGHMAN" CAP (SET)
= 1/2" REBAR W/ "BAUGHMAN" CAP (FOUND)
Ø = 1/2" IRON IN THIMBLE (FOUND)
⊠ = Ø5 REBAR IN THIMBLE (FOUND)
○ = 1/2" IRON (FOUND)
◉ = Ø5 REBAR W/ "C&A" CAP (FOUND)

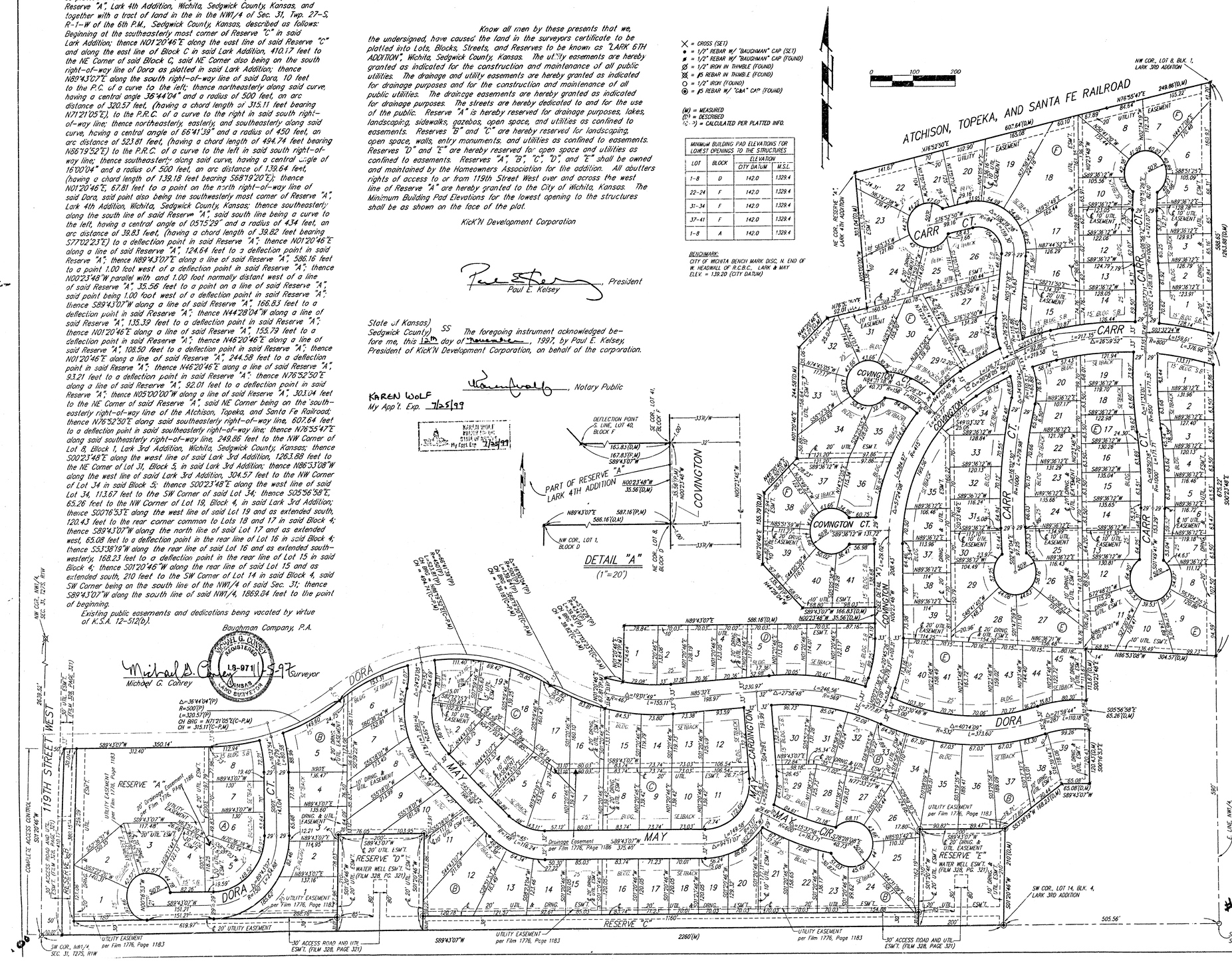
(M) = MEASURED
(D) = DESCRIBED
(P-) = CALCULATED PER PLATTED INFO.

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENINGS TO THE STRUCTURES			
LOT	BLOCK	ELEVATION CITY DATUM	ELEVATION M.S.L.
1-8	D	142.0	1329.4
22-24	F	142.0	1329.4
31-34	F	142.0	1329.4
37-41	F	142.0	1329.4
1-8	A	142.0	1329.4

BENCHMARK:
CITY OF WICHITA BENCH MARK DISC, N. END OF W. HEADWALL OF R.C.B.C., LARK & MAY
ELEV. = 139.20 (CITY DATUM)

Baughman Company, P.A.

Michael G. Cohrey, LS-971, 5-97 Surveyor


ATCHISON, TOPEKA, AND SANTA FE RAILROAD
CARR CT.
COVINGTON CT.
COVINGTON
MAY
DORA
119TH STREET WEST
RESERVE "A"
RESERVE "B"
RESERVE "C"
RESERVE "D"
RESERVE "E"
DETAIL "A" (1"=20')
PART OF RESERVE "A" LARK 4TH ADDITION
DEFLECTION POINT S. LINE, LOT 40, BLOCK F
NW COR., LOT 8, BLK. 1, LARK 3RD ADDITION
SW COR., LOT 14, BLK. 4, LARK 3RD ADDITION
SE COR., LOT 31, BLK. 5, LARK 3RD ADDITION
NE COR., RESERVE "A", LARK 4TH ADDITION
SW COR., NW1/4, SEC. 31, 27S, R1W
SE COR., NW1/4, SEC. 31, 27S, R1W
NW COR., NW1/4, SEC. 31, 27S, R1W
E. LINE, NW1/4, SEC. 31, 27S, R1W
COMPLETE ACCESS CONTROL
30' ACCESS ROAD AND UTIL. ESM'T. (FILM 328, PAGE 321)
UTILITY EASEMENT per Film 1776, Page 1183
Drainage Easement per Film 1776, Page 1186
WATER WELL ESM'T. (FILM 328, PG. 321)
2260'(M)
505.56'
675.22'
S00°23'48"E
1263.88'(D,M)
S89°43'07"W 2639.65'
S89°43'07"W 1869.04'
S89°43'07"W 350.14'
S89°43'07"W 375.40'
S89°43'07"W 619.97'
S89°43'07"W 151.21'
S89°43'07"W 114.93'
S89°43'07"W 117.48'
S89°43'07"W 137.16'
S89°43'07"W 1160'
S89°43'07"W 200'
S89°43'07"W 586.16'(D,M)
S89°43'07"W 166.83'(D,M)
N89°43'07"E 586.16'(D,M)
N89°43'07"E 587.16'(P,M)
N89°43'07"E 167.83'(P,M)
N00°23'48"W 35.56'(D,M)
N00°23'48"W 35.58'(P,M)
S05°56'58"E 65.26'(D,M)
S53°38'19"W 168.23'(D,M)
N76°55'47"E 249.86'(D,M)
N76°55'50"E 607.64'(D,M)
N76°55'50"E 92.01'
N76°55'50"E 93.21'
N76°55'50"E 607.64'
N01°20'46"E 67.81'
N01°20'46"E 124.64'
N01°20'46"E 155.79'
N01°20'46"E 244.58'
N01°20'46"E 303.04'
N01°20'46"E 410.17'
N01°20'46"E 67.81'
N01°20'46"E 113.67'
N01°20'46"E 210'
N46°20'46"E 108.50'
N46°20'46"E 93.21'
N44°28'04"W 135.39'
N05°30'00"W 303.04'
S00°23'48"E 1263.88'
S00°23'48"E 113.67'
S00°16'53"E 120.43'
S05°56'58"E 65.26'
S53°38'19"W 168.23'
Δ=38°44'04"(P) R=500'(P) L=320.57'(P) CH BRG = N71°21'05"E(C-P,M) CH = 315.11'(C-P,M)
Δ=66°41'39"(P) R=450'(P) L=523.81'(P) CH BRG = N86°19'52"E(C-P,M) CH = 494.74'(C-P,M)
Δ=16°00'04"(P) R=500'(P) L=139.64'(P) CH BRG = S68°19'20"E(C-P,M) CH = 139.18'(C-P,M)
Δ=5°15'29"(P) R=434'(P) L=39.83'(P) CH BRG = S77°02'23"E(C-P,M) CH = 39.82'(C-P,M)
Δ=24°21'05" R=450' L=191.33' CH BRG = S12°10'32"E CH = 189.89'
Δ=19°01'49" R=500' L=155.11' CH BRG = S10°09'48"E CH = 154.46'
Δ=27°58'48" R=569' L=278.00'
Δ=19°01'49" R=500' L=166.11' CH BRG = S10°09'48"E CH = 165.34'
Δ=27°58'48" R=569' L=246.56'
Δ=90°00'00" R=20' L=31.42'
Δ=90°00'00" R=20' L=31.42'
Δ=21°58'44" R=281' L=110.18'
Δ=153°26'08" R=15' L=40.17'
Δ=4°07'09" R=530' L=38.09'
Δ=4°07'09" R=530' L=38.09'
Δ=4°07'09" R=530' L=38.09