STORM WATER SEWER #523

to serve

AUBURN HILLS 9TH ADDITION

Project Number

468-82957

Index Code

751274

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:

Multimedia Cablevision	262-0661
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	333-8600
Peoples Gas Company	942-8350
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Dept.	268-4908
City of Wichita Traffic Engineering	269-4446

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.

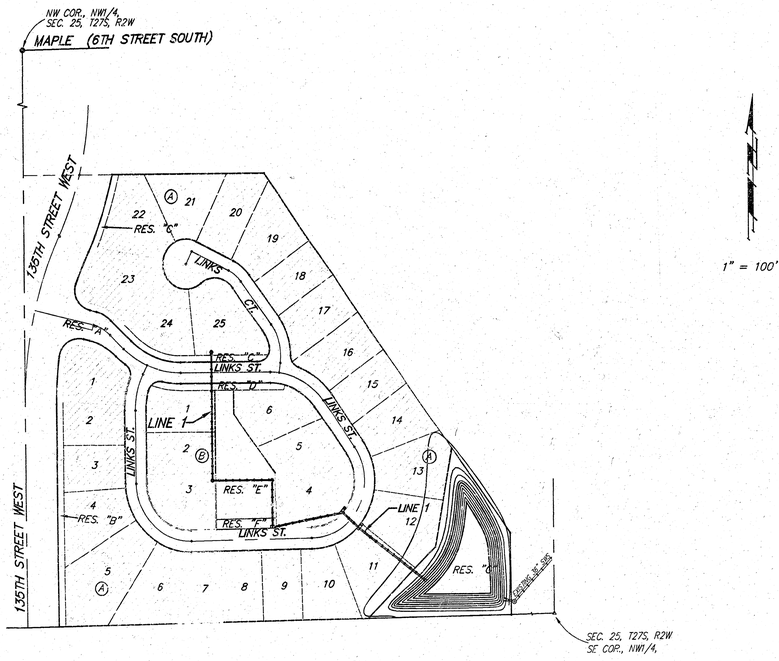
3. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

4. 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.

5. All areas except for Reserve "G" disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs./acre immediately following construction in that area. Prior to seeding, area shall be prepared per City specs.

   Reserve "G" shall be seeded, mulched and fertilized as follows:
   Seed - 35 lbs./acre Brome grass
   & 100 lbs./acre K-31 Fescue
   Mulch - 2 tons prairie hay per acre
   Fertilizer - 350 lbs./acre 12-20-10 or 12-24-12

6. When connecting to existing inlet or stub, the contractor shall reshape inlet bottom or adjust the existing stubs's alignment or elevation as necessary. Cost shall be subsidiary to other bid items.



1" = 100'

BENCHMARKS:

City Disc - 34.3' E. & 35' N. of S.W. Corner of N.W. 1/4, Sec. 25, T-27-S, R-2-W.
Elev. = 156.63 (City Datum)

City Disc - 135th St. W. & Maple, 30' N. & 15' E. CL Both.
Elev. = 150.20 (City Datum)

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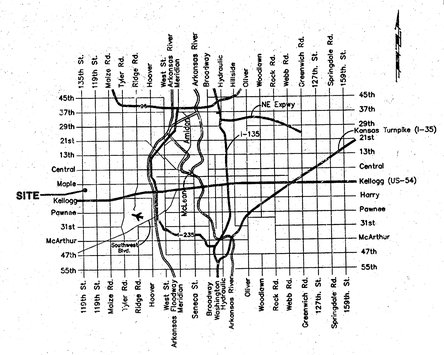
BOOKED 11-15-99 MCG D-439



Vicinity Map

Benefit District:

BRIAN LEE PELTIER LICENSED 13744 KANSAS PROFESSIONAL ENGINEER 03/09/99

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

03/10/1999 10:54:47 SWS1.DWG

BENCHMARKS:
City Disc – 34.3' E. & 35' N. of S.W. Corner of N.W. 1/4, Sec. 25, T-27-S, R-2-W.
Elev. = 156.63 (City Datum)

City Disc :- 135th St. W. & Maple, 30' N. & 15' E. CL Both.
Elev. = 150.20 (City Datum)

Sta. 2+78.9, Line 1
Const. Std. Type-1A Single Curb Inlet. (6'4" x 4'4")
Top Elev. = 159.60

Sta. 1+30.9 to Sta. 1+66.2
Install 35.3 L.F. Flowable Fill per City Specifications.
Fill to Elev. 154.90

Sta. 1+30.9, Line 1
Const. Std Type-1A Double Curb Inlet. (11'4" x 4'4")
Top Elev. = 158.10

CAUTION! 8" Wtr Line Crossing

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

Sta. 0+00, Line 1
Begin Construction of 24" R.C.P. w/ 24" End Section.

CAUTION! 8" San. Sewer Crossing

Sta. 1+66.2, Line 1
Const. Std Type-1A Double Curb Inlet. (11'4" x 4'4")
Top Elev. = 158.10

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

Sta. 4+40.2, Line 1
Const. Special Yard Inlet.
Top Elev. = 157.00
Match Point

Sta. 3+47.9, Line 1
Const. Special Yard Inlet.
Top Elev. = 156.50

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

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

AUBURN HILLS 9TH ADDITION

LINKS ST.

LINE 1

RES. "F"

RES. "G"

RES. "E"

Proposed Pond

20' Util. Esm't

20' Drng., Util & Ped. Access Esm't

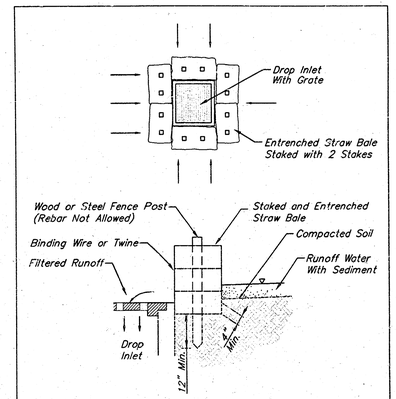
15' Str., Drng. & Util. Esm't

20' Drng. & Util. Esm't

5' Drng. Esm't (By Sep. Inst.)

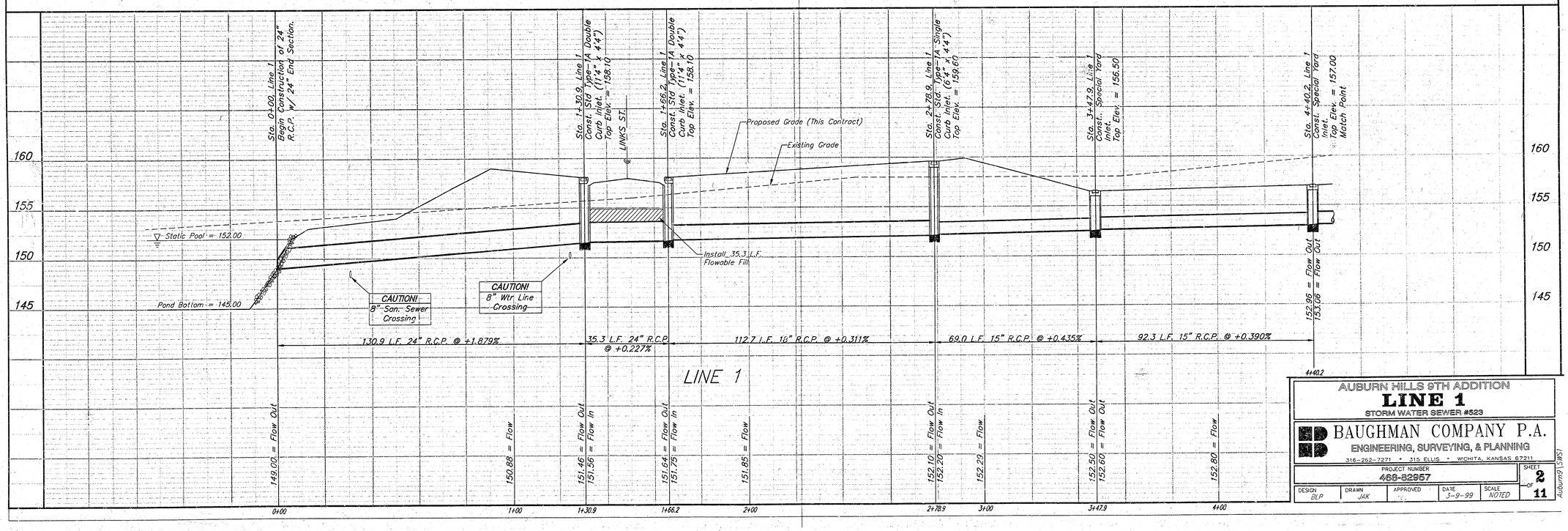
20' Util. Esm't

20' Drng. Esm't (By Sep. Inst.)



Straw Bale Barrier Detail

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



AUBURN HILLS 9TH ADDITION
LINE 1
STORM WATER SEWER #523

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

PROJECT NUMBER	SHEET
468-82957	2 OF 11

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	JAK		3-9-99	NOTED

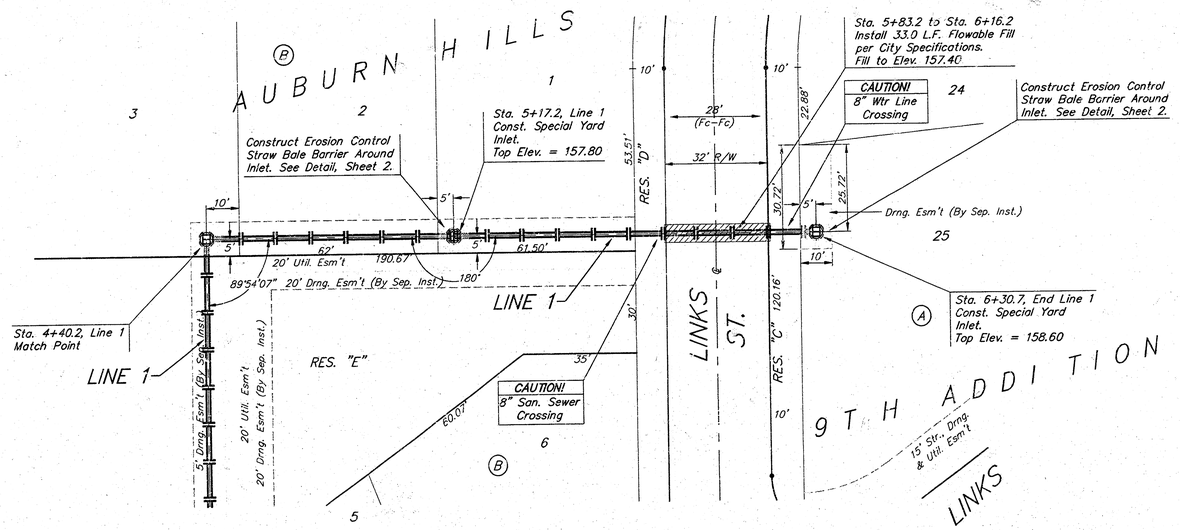
Auburn9\SWS1

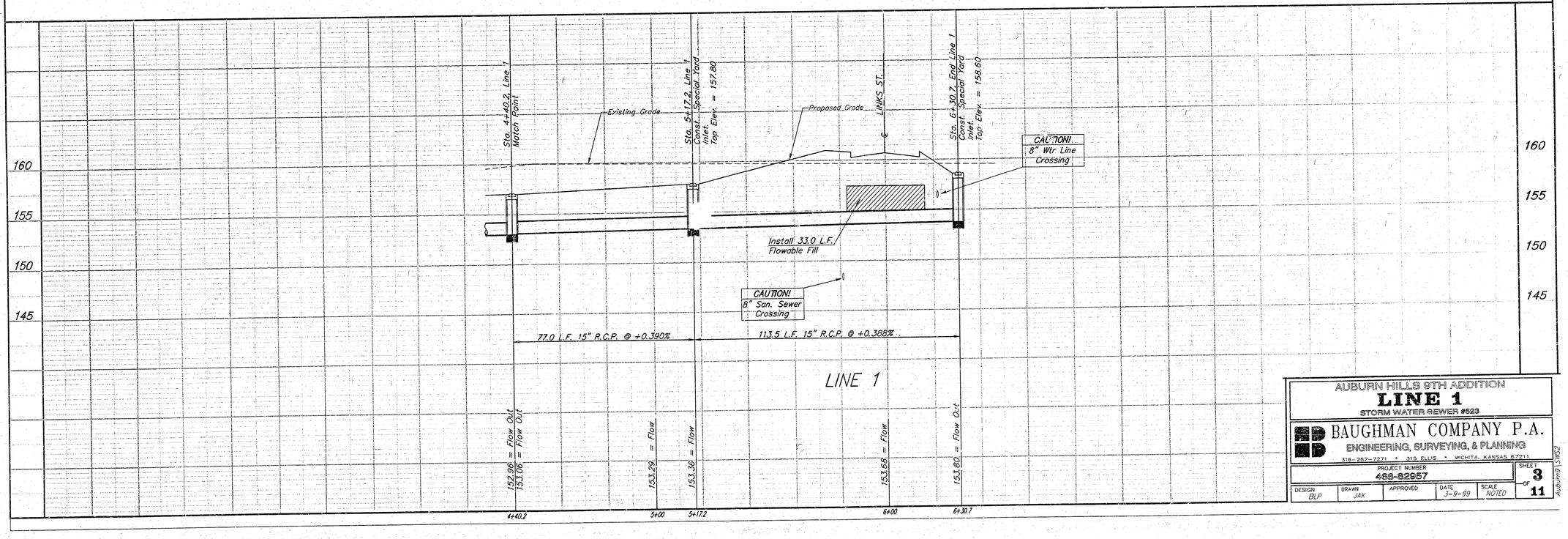
03/10/1999 10:55:26 SW52.DWG

BENCHMARKS:
City Disc – 34.3' E. & 35' N. of S.W. Corner of N.W. 1/4, Sec. 25, T-27-S, R-2-W.
Elev. = 156.63 (City Datum)

City Disc – 135th St. W. & Maple, 30' N. & 15' E. CL Both.
Elev. = 150.20 (City Datum)

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





AUBURN HILLS 9TH ADDITION
LINE 1
STORM WATER SEWER #523

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-267-7321 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 468-82957
SHEET 3 OF 11

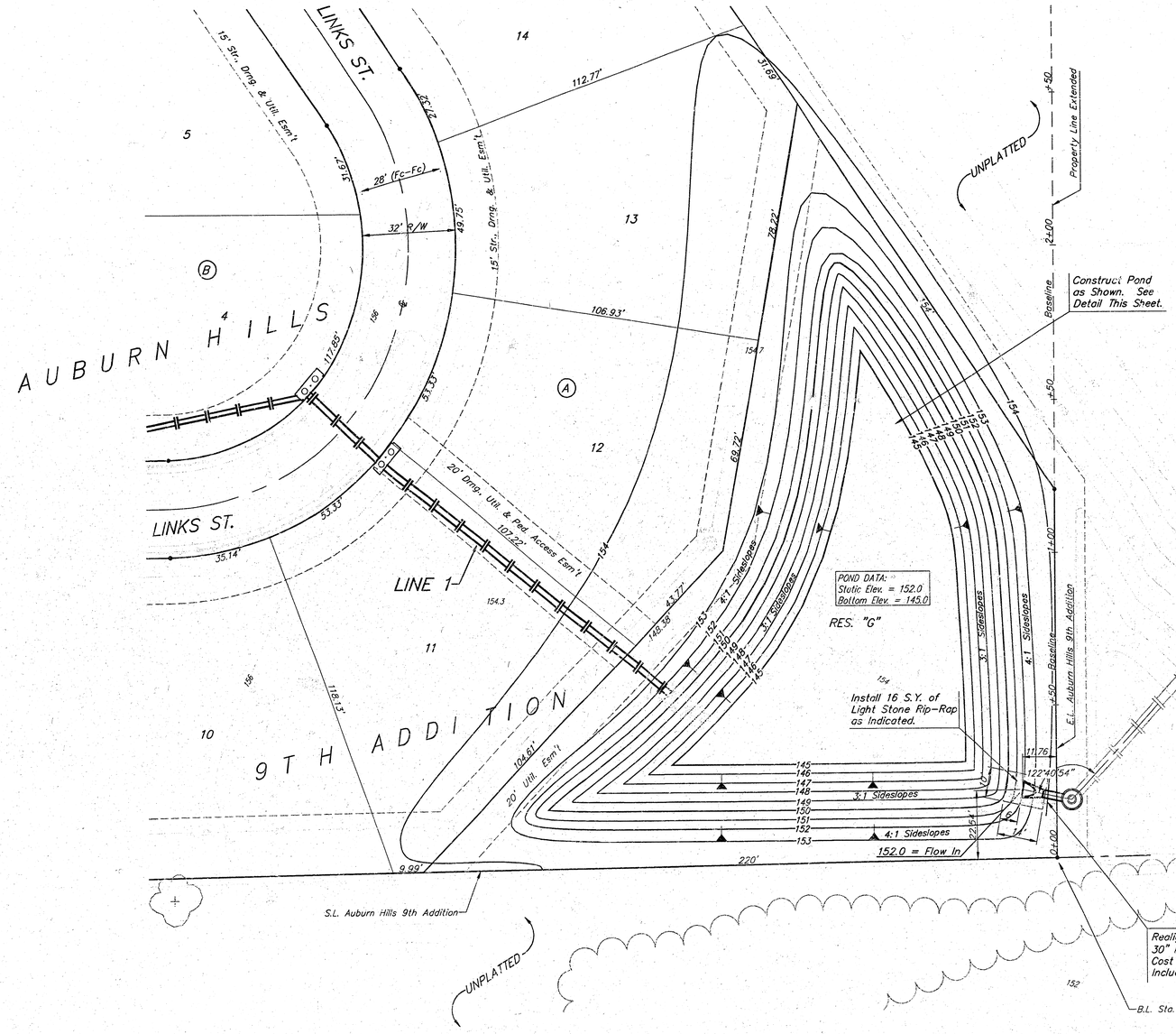
DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	JAK		3-9-99	NOTED

Auburn9 LSW52

03/10/1999 11:15:04 POND.DWG

BENCHMARKS:
City Disc – 34.3' E. & 35' N. of S.W. Corner of N.W. 1/4, Sec. 25, T-27-S, R-2-W.
Elev. = 156.63 (City Datum)

City Disc – 135th St. W. & Maple, 30' N. & 15' E. CL Both.
Elev. = 150.20 (City Datum)



SCALE: 1" = 20'
• = Iron

EARTHWORK SUMMARY:

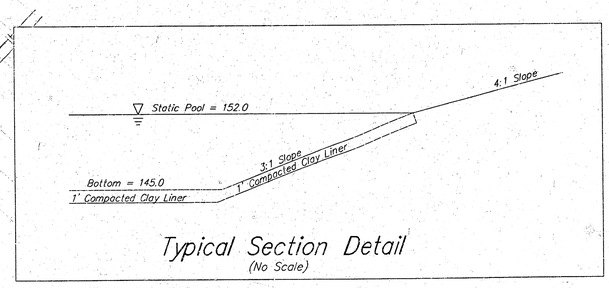
5200 C.Y. EXCAVATION

(NOTE: THIS QUANTITY IS TO ACHIEVE FINAL SHAPE OF POND. IT DOES NOT INCLUDE THE OVER-EXCAVATION OF 1' TO PLACE THE CLAY LINER)

NOTES:

1. POND BOTTOM AND SIDESLOPES BELOW STATIC POOL ELEVATION SHALL BE OVER-EXCAVATED 1' AND A 1' CLAY LINER SHALL BE COMPACTED TO 95% STD. DENSITY. THE PLASTICITY INDEX (P.I.) SHALL BE AT LEAST 20. THE COMPACTION AND P.I. SHALL BE VERIFIED DURING CONSTRUCTION.
2. ANY EXCESS EXCAVATION SHALL BE STORED ON-SITE AT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE SEEDED, MULCHED AND FERTILIZED AS FOLLOWS:

   SEED -- 35 LBS./ ACRE BROME GRASS
   & 100 LBS./ACRE K-31 FESCUE
   MULCH -- 2 TONS PRAIRIE HAY / ACRE
   FERTILIZER -- 350 LBS./ACRE 10-20-10 OR 12-24-12
4. BAUGHMAN COMPANY WILL PROVIDE STAKING INFORMATION AT THE TIME OF CONSTRUCTION.



Typical Section Detail
(No Scale)

AUBURN HILLS 9TH ADDITION
POND PLAN
STORM WATER SEWER #523

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

PROJECT NUMBER					SHEET
468-82957					4 OF 11
DESIGN	DRAWN	APPROVED	DATE	SCALE	
BLP	JAK		3-9-99	NOTED	

Auburn9 Pond

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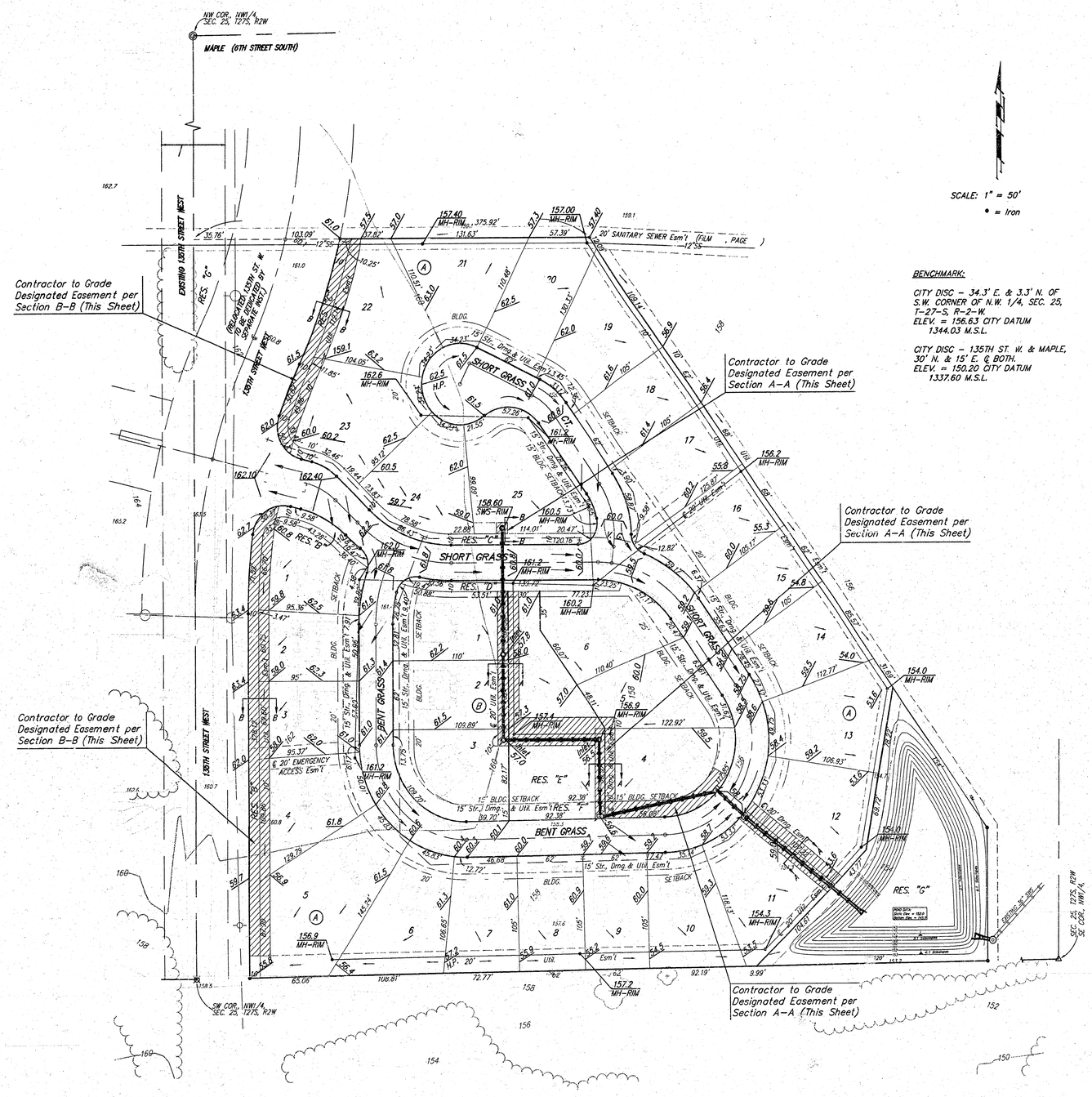


SCALE: 1" = 50'

• = Iron

BENCHMARK:

CITY DISC – 34.3' E. & 3.3' N. OF S.W. CORNER OF N.W. 1/4, SEC. 25, T-27-S, R-2-W.
ELEV. = 156.63 CITY DATUM
1344.03 M.S.L.

CITY DISC – 135TH ST. W. & MAPLE, 30' N. & 15' E. ℄ BOTH.
ELEV. = 150.20 CITY DATUM
1337.60 M.S.L.

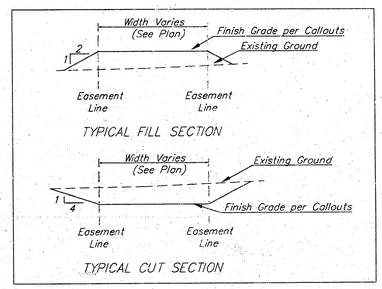
Note: All excess soil shall remain on site and shall be stockpiled at a location to be determined by the design engineer.

= Easements To Be Graded

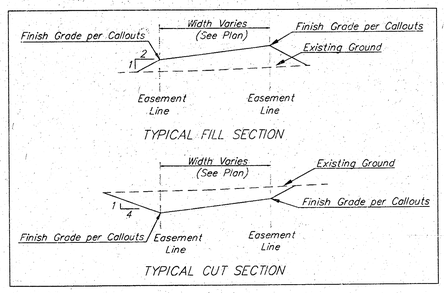
Approximate Easement Grading Quantities:
(For Information Only)
Excavation: 1095 C.Y.
Fill: 460 C.Y.

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

AUBURN HILLS 9TH ADDITION

EASEMENT GRADING

WICHITA, KANSAS

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

PROJECT NUMBER	SHEET
468-82957	5 OF 11

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	JAK		3-9-99	1" = 50'

Swesgrd

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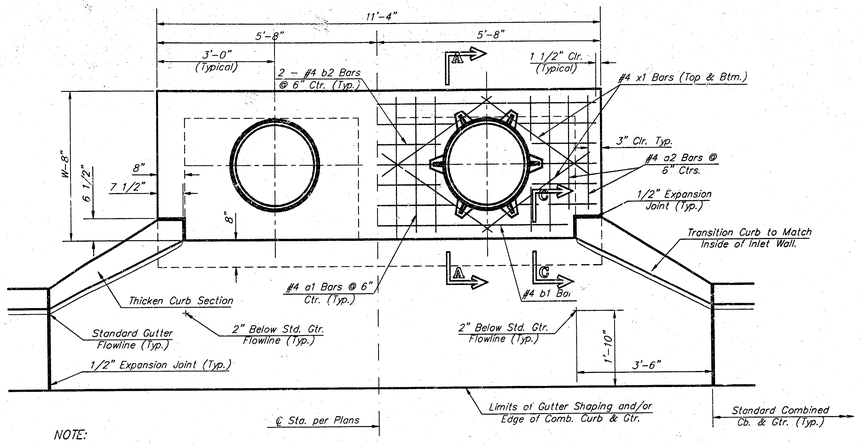
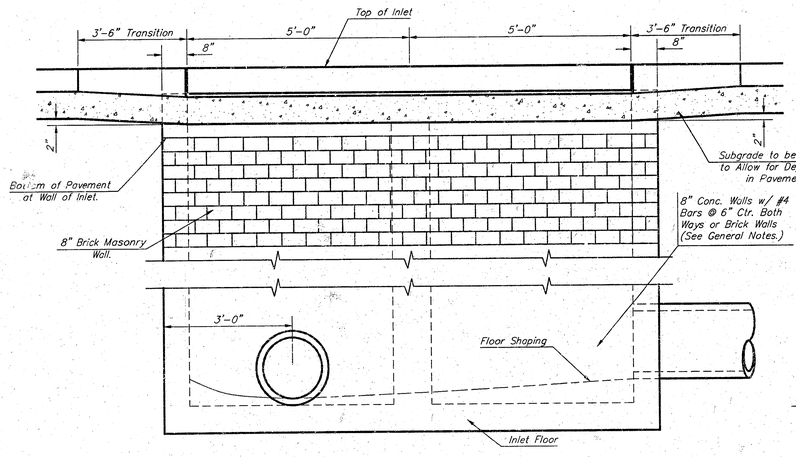


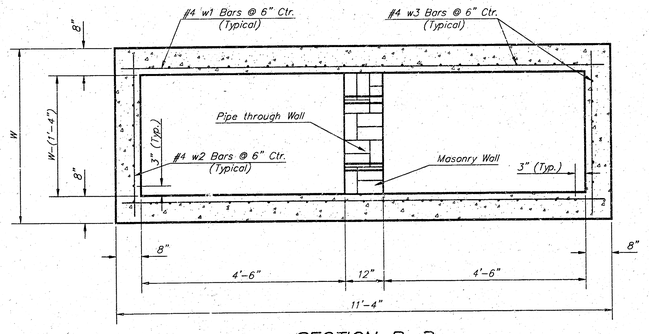
NOTE:
Expansion Joint Only in Curb Area with Concrete Pavement.

PLAN

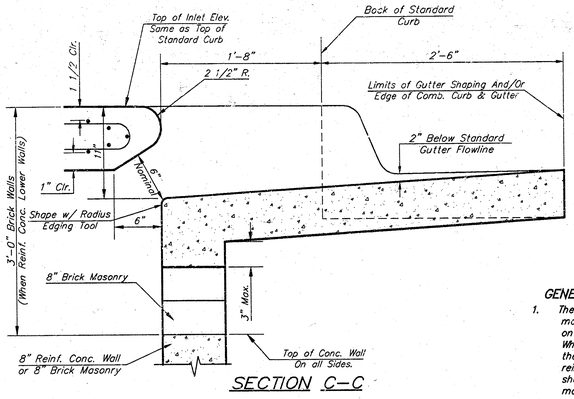
*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



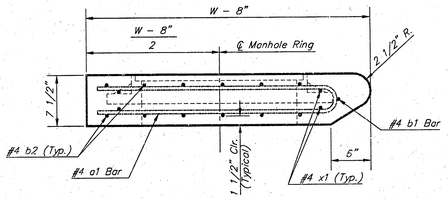
ELEVATION



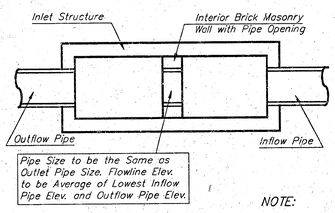
SECTION B-B



SECTION C-C

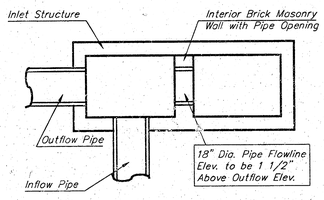


SECTION A-A



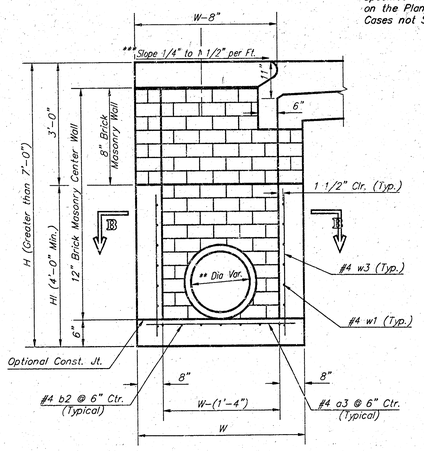
Pipe Size to be the Same as Outlet Pipe Size. Flowline Elev. to be Average of Lowest Inflow Pipe Elev. and Outflow Pipe Elev.

CASE I



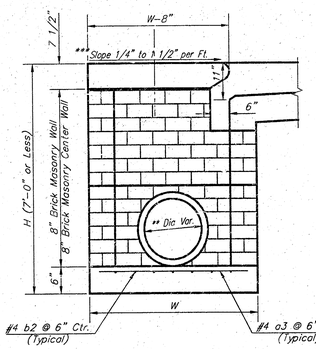
CASE II

NOTE:
Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



TYPICAL INLET SECTION AT CENTER WALL

(Reinforced Concrete Walls)



TYPICAL INLET SECTION AT CENTER WALL

(Masonry Walls)

NOTES:
** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II above.
*** Slope of inlet tops to match sidewalk of parking slopes within limits indicated

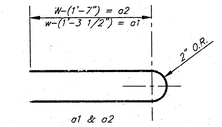
PRECAST SLAB AND FLOOR REINFORCING										
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	13	6'-7"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
* b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	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	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	3'-1"
w3	#4	52	②	56	②	60	②	64	②	68	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"

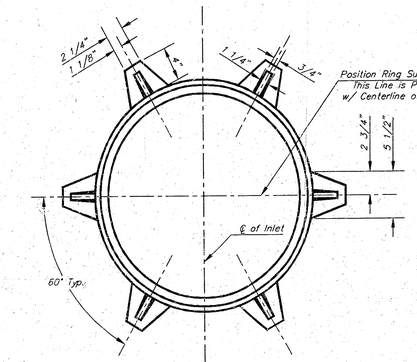
GENERAL NOTES:

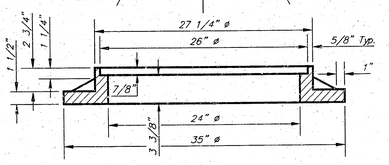
1. The contractor shall be required to construct 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" or less and H=7'-0" or less. When W is greater than 6'-4" and H is less than 7'-0" the outside inlet walls below the brick stock shall be reinforced concrete construction and the center wall shall be of masonry construction as shown for the masonry wall option.
2. 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.
3. 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.
4. Inlet top reinforcing shall be spaced on 6" max. centers. Inlet lids shall be notched out as indicated to facilitate construction of curb. Bars in inlet top to be field bent or cut to clear manhole ring.
5. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 11'-4" 7 1/2"	21" & SMALLER	0.63±
5'-4"	4'-8" 11'-4" 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" 11'-4" 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" 11'-4" 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" 11'-4" 7 1/2"	60" & 66"	1.87±





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.

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A

Curb Inlet Details

INLET OPENING = 6" X 10'-0"

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

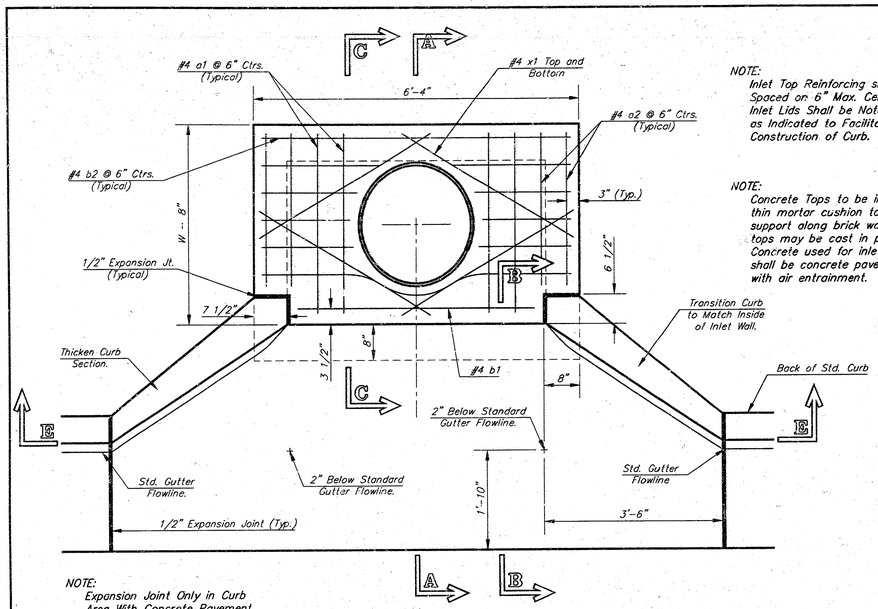
PROJECT NUMBER 488-82957

SHEET 6 OF 11

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

TYP1A-D

03/10/1999 10:05:25 TYP1A-S.DWG

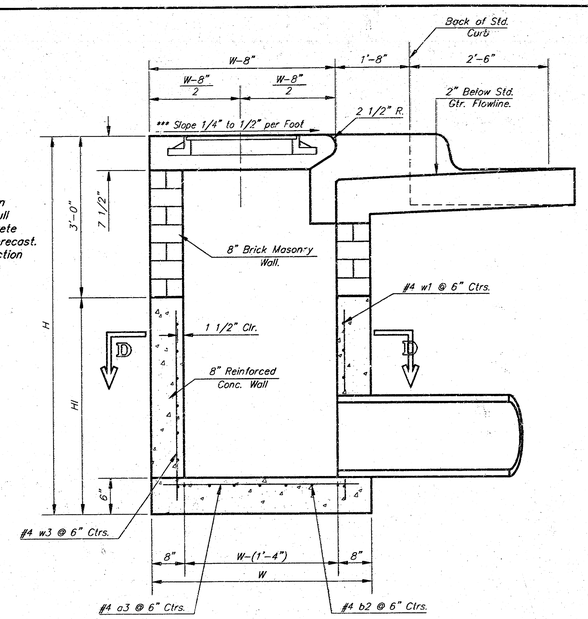


NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

PLAN

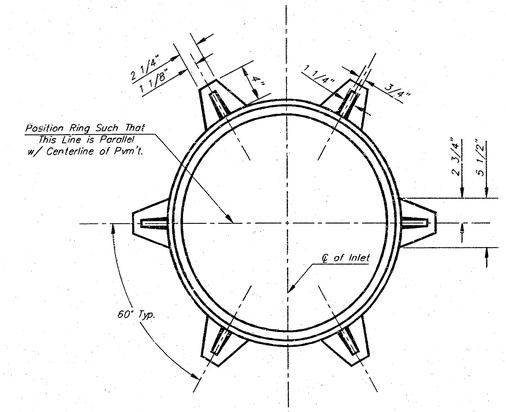
NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

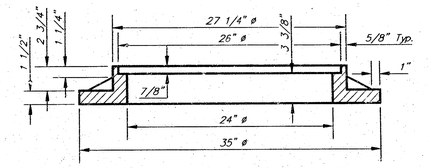
NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



SECTION A-A

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

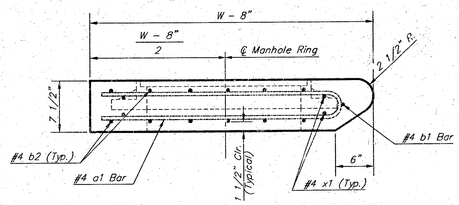




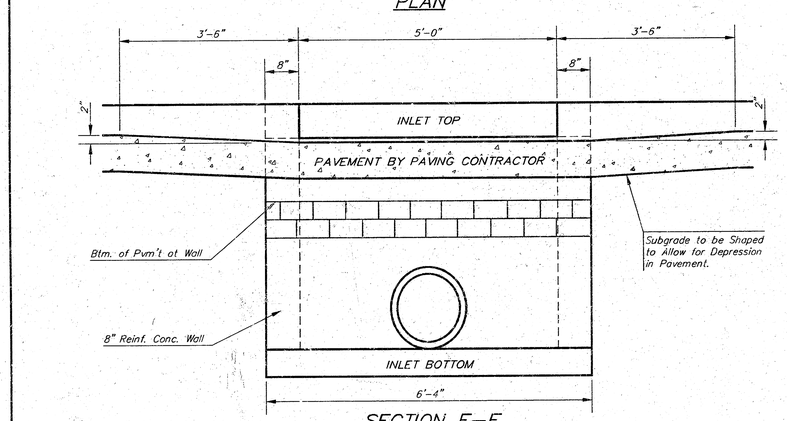
MANHOLE RING AND COVER

Weight = 180 Lbs.

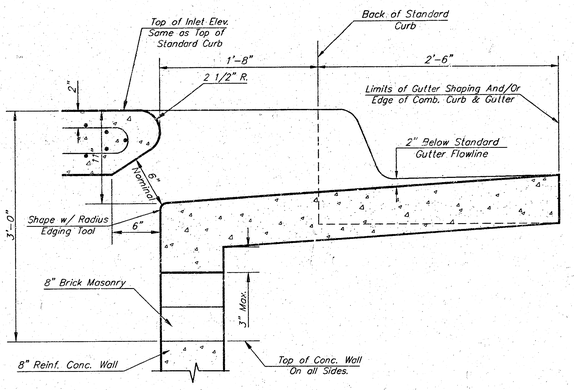
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



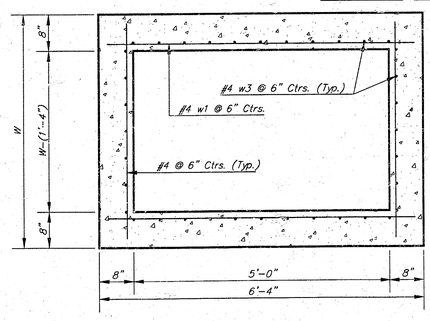
SECTION A-A



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.

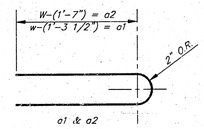
The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

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"

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

PROJECT NUMBER 486-82957

SHEET 7 OF 11

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

Type1A-S

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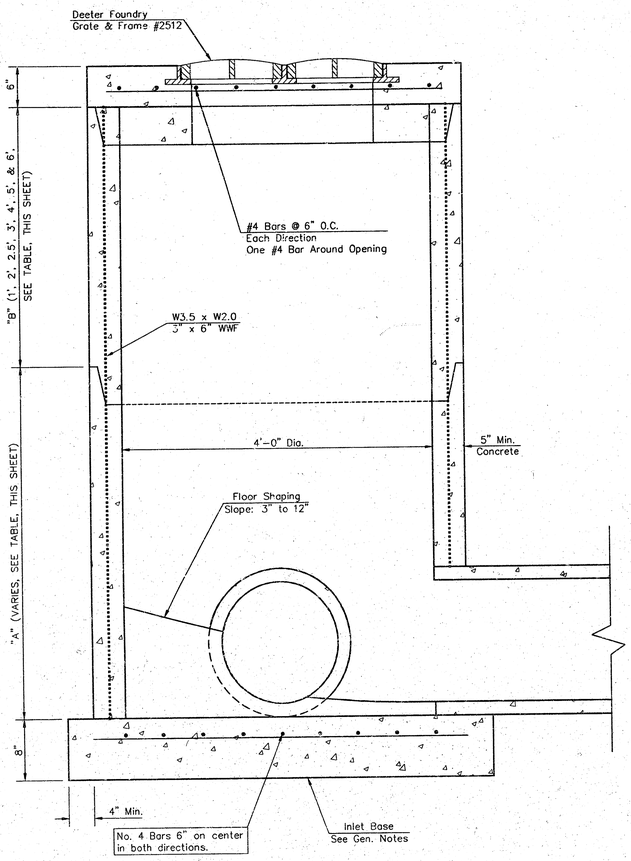
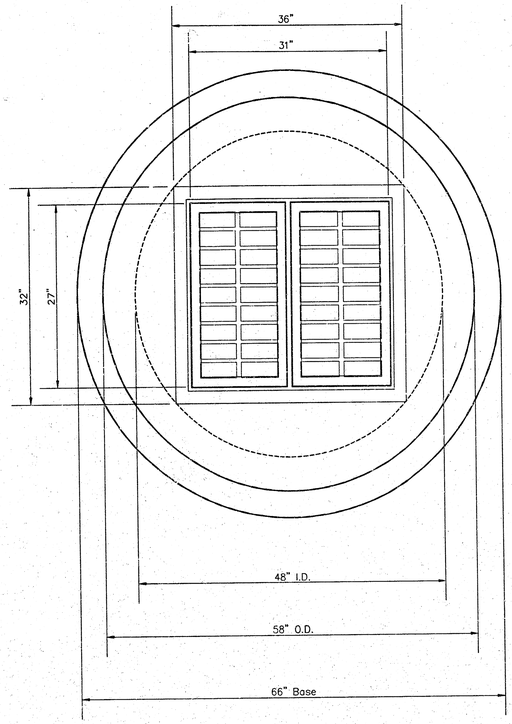
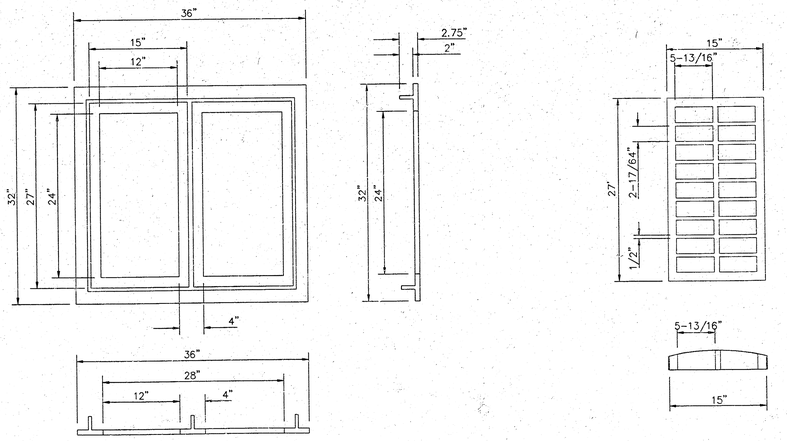


YARD INLET

LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
1	3+47.9	156.50	152.50	2.50'	1'
1	4+40.2	157.00	152.96	2.54'	1'
1	5+17.2	157.80	153.36	2.94'	1'
1	6+30.7	158.60	153.80	3.30'	1'





DEETER #2512 CATCH BASIN INLET GRATE & FRAME

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 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
468-82957	8 of 11

DESIGN	DRAWN	APPROVED	DATE	SCALE
			12/16/98	NONE

DETAILS \ Yardinlet

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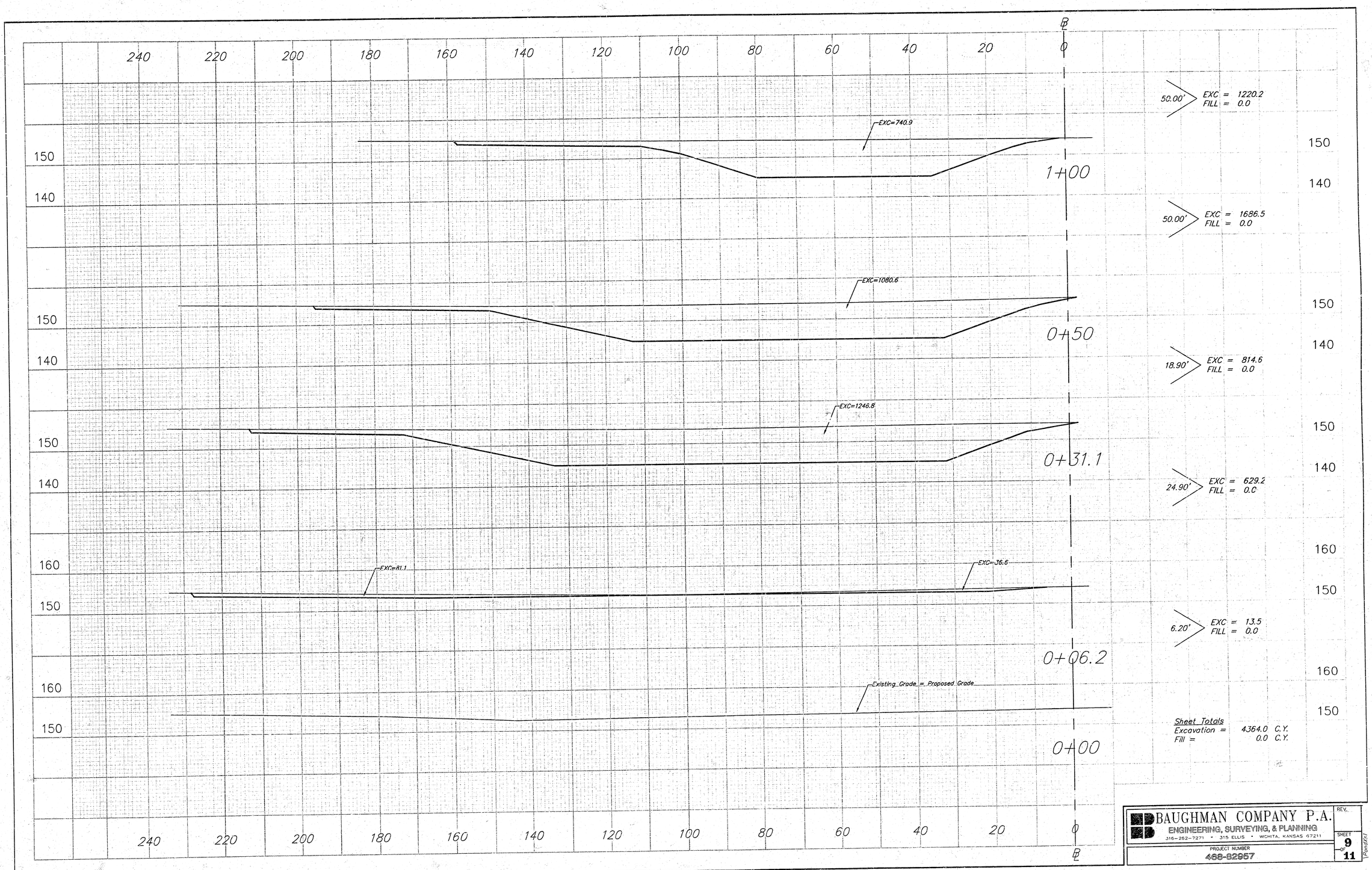

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REV.

SHEET 9 OF 11

PROJECT NUMBER 468-82957

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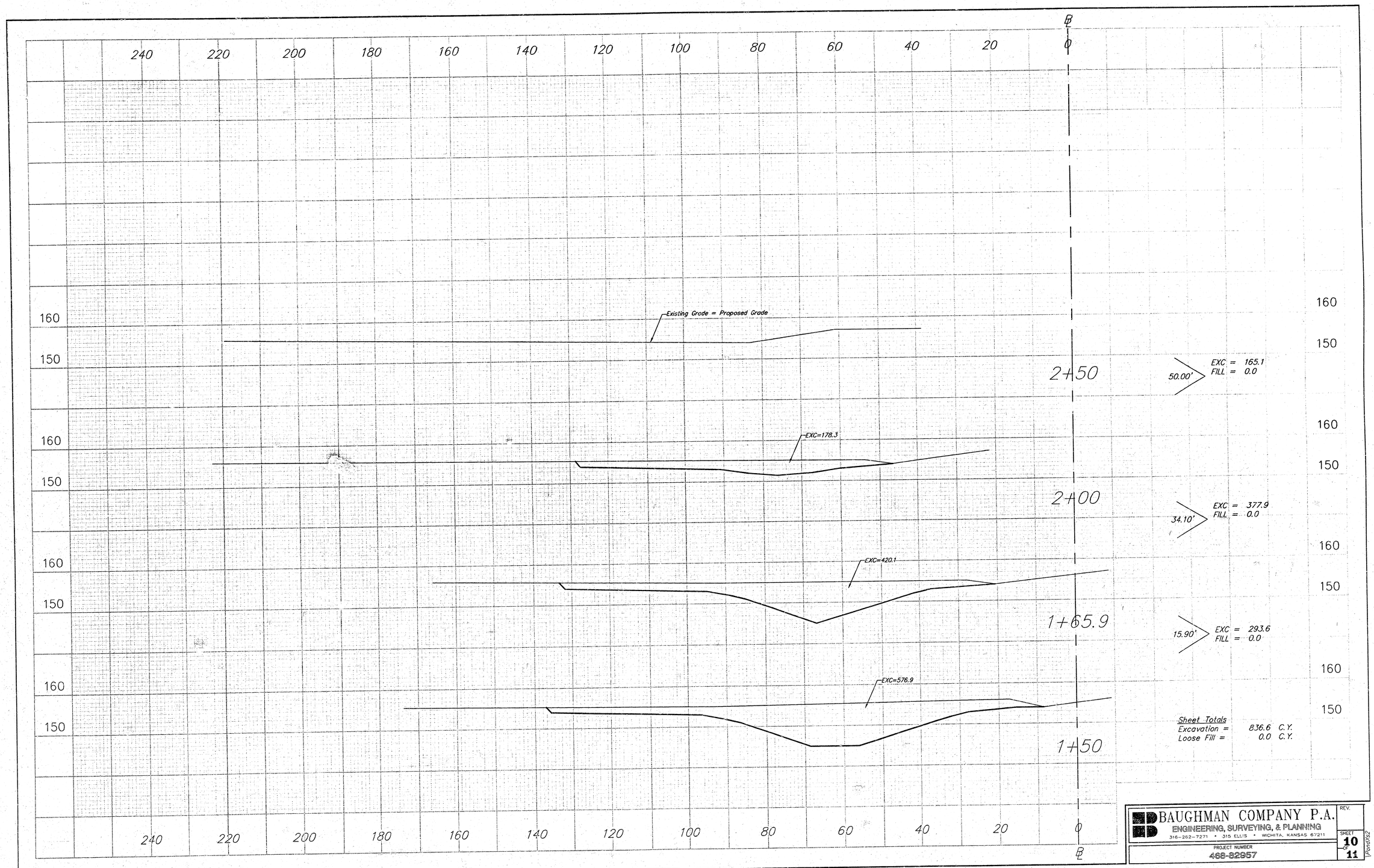

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REV.

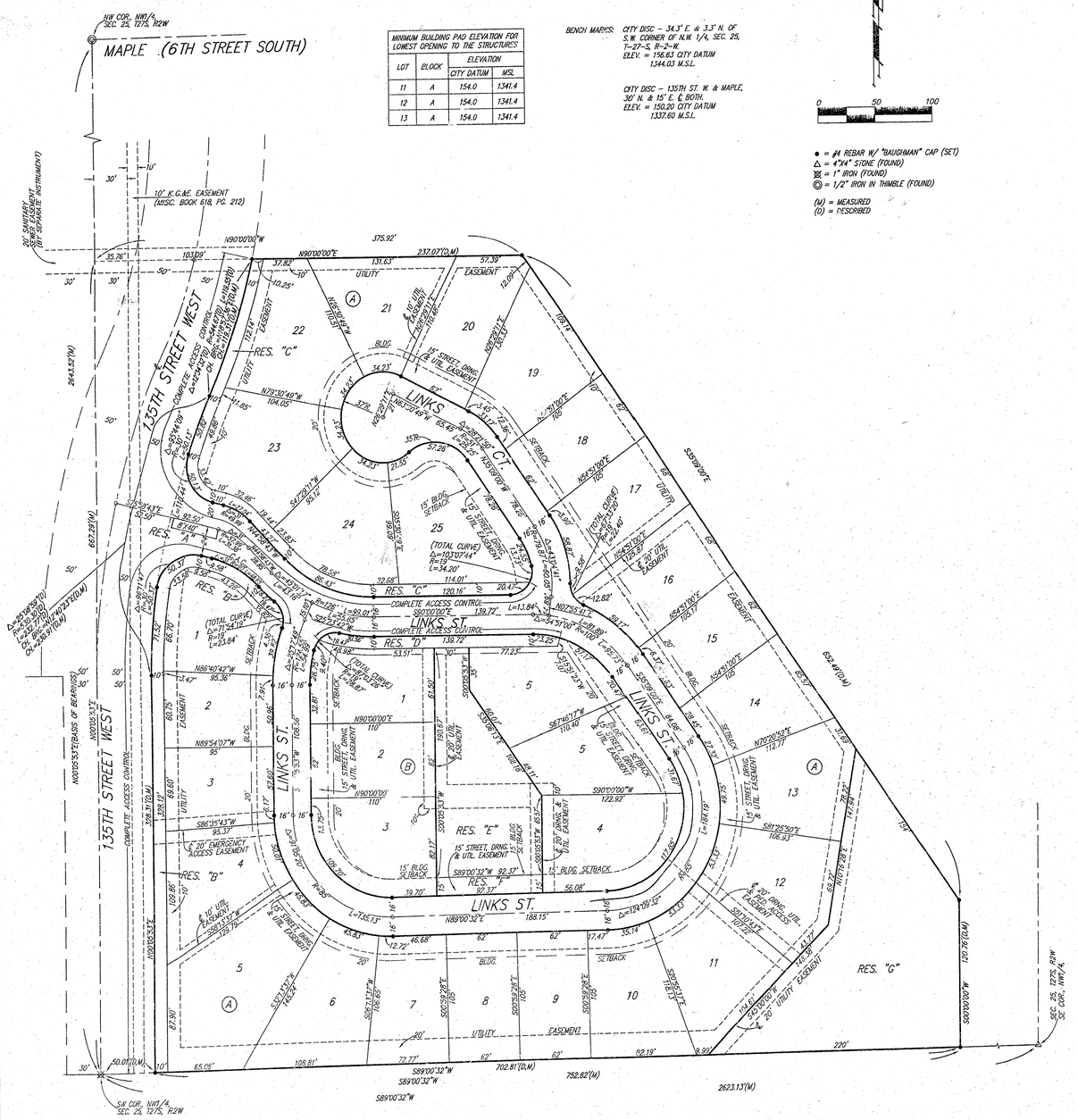
SHEET 10 OF 11

PROJECT NUMBER
468-82957

\Ponds\2

AUBURN HILLS 9TH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS


NW. COR. NW1/4 SEC. 25, T27S, R2W
MAPLE (6TH STREET SOUTH)
135TH STREET WEST
LINKS ST.
RES. "A"
RES. "B"
RES. "C"
RES. "D"
RES. "E"
RES. "F"
RES. "G"
LINKS
21
22
20
19
18
17
16
15
14
13
12
11
23
24
25
1
2
3
4
5
6
7
8
9
10
N90°00'00"W
N90°00'00"E
375.92'
237.07'(D,M)
S35°09'00"E
652.49'(D,M)
N00°05'53"E
(BASIS OF BEARINGS)
687.29'(M)
2643.53'(M)
S89°00'32"W
702.81'(D,M)
752.82'(M)
2623.13'(M)
S00°00'00"W
120.76'(D,M)
SEC. 25, T27S, R2W
SE. COR. NW1/4
SW. COR. NW1/4 SEC. 25, T27S, R2W
20' SANITARY SEWER EASEMENT (BY SEPARATE INSTRUMENT)
10' K.G.&E. EASEMENT (MISC. BOOK 618, PG. 212)
COMPLETE ACCESS CONTROL
15' STREET, DRNG. & UTIL. EASEMENT
15' BLDG SETBACK
20' UTILITY EASEMENT
20' EMERGENCY ACCESS EASEMENT
10' UTIL. EASEMENT
(TOTAL CURVE) R=71.42' L=23.84'
(TOTAL CURVE) R=19' L=34.20'
(TOTAL CURVE) R=19' L=29.85'
(TOTAL CURVE) R=19' L=29.85'
(TOTAL CURVE) R=19' L=29.85