PROPOSED RCBC EXTENSION & CHANNEL IMPROVEMENTS

~~(TO BE CONSTRUCTED IN TWO PHASES)~~

TO SERVE

Circuit City Addition

Private Project No. 636 PPS (607861)

Michael E. Lindeback, P.E., City Engineer

Benchmark:

"D" Cut in Top of Curb at Southeast Corner of Orme and Eustern.
Elevation = 143.21 City Datum

General Notes

1. 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.

2. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of five (5) days advance notice prior to start of 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 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:

K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Cablevision	262-4270
or	263-2061
Southwestern Bell Telephone Company	1-571-2811
City of Wichita Water Dept.	268-4908
City of Wichita Sewer Maintenance	268-4071

5. Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction. The Contractor shall verify all utility locations prior to construction of this project.

6. Contractor shall verify depth & location of existing utilities prior to construction.

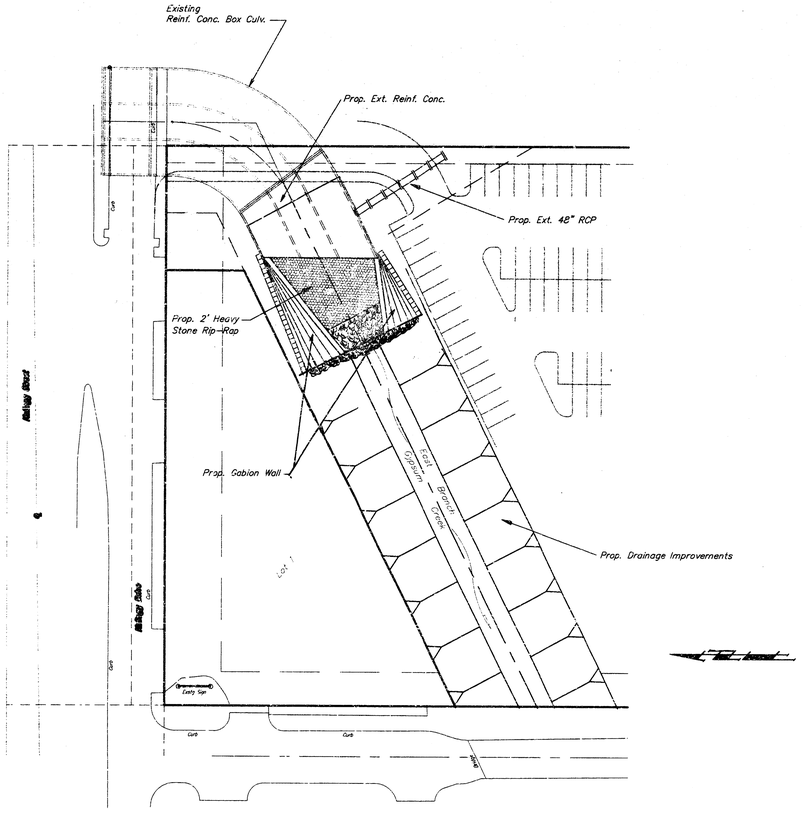
7. The Contractor shall be responsible for maintaining continuous flow of stream through construction.

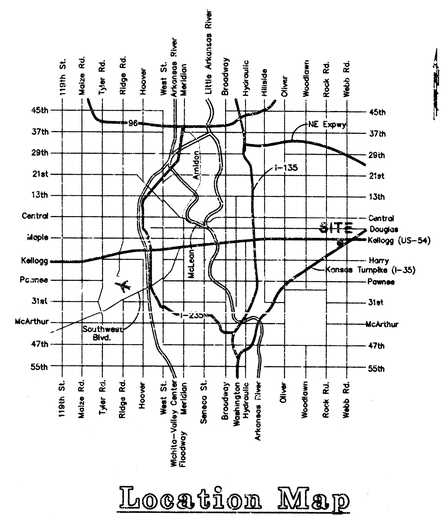
8. Contractor shall use "MACCAFERRI" Gabions.

   MACCAFERRI GABIONS, INC.
   1623 Jeffco Blvd., Suite 213
   Arnold, Missouri 63010
   (314) 296-7032
   Fax (314) 296-6174

   Local Rep.: Craig Seiler
   722-9672

9. Channel lining as designated on the plans shall be North American Green "C125" with a staple pattern "D". Contact Mr. Harold Blade with ASP Enterprises @ 314/343-4723.





Location Map

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RCBC Extension Details	3
Handrail Details	4
RCBC Plan (Phase I)	5
Plan/Profile - SWS Line (Phase 1)	6
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Booked 5-14-97 Mcg D-339

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

Storm Sewers Steve Rath 9-13-96

NOTE TO CONTRACTORS

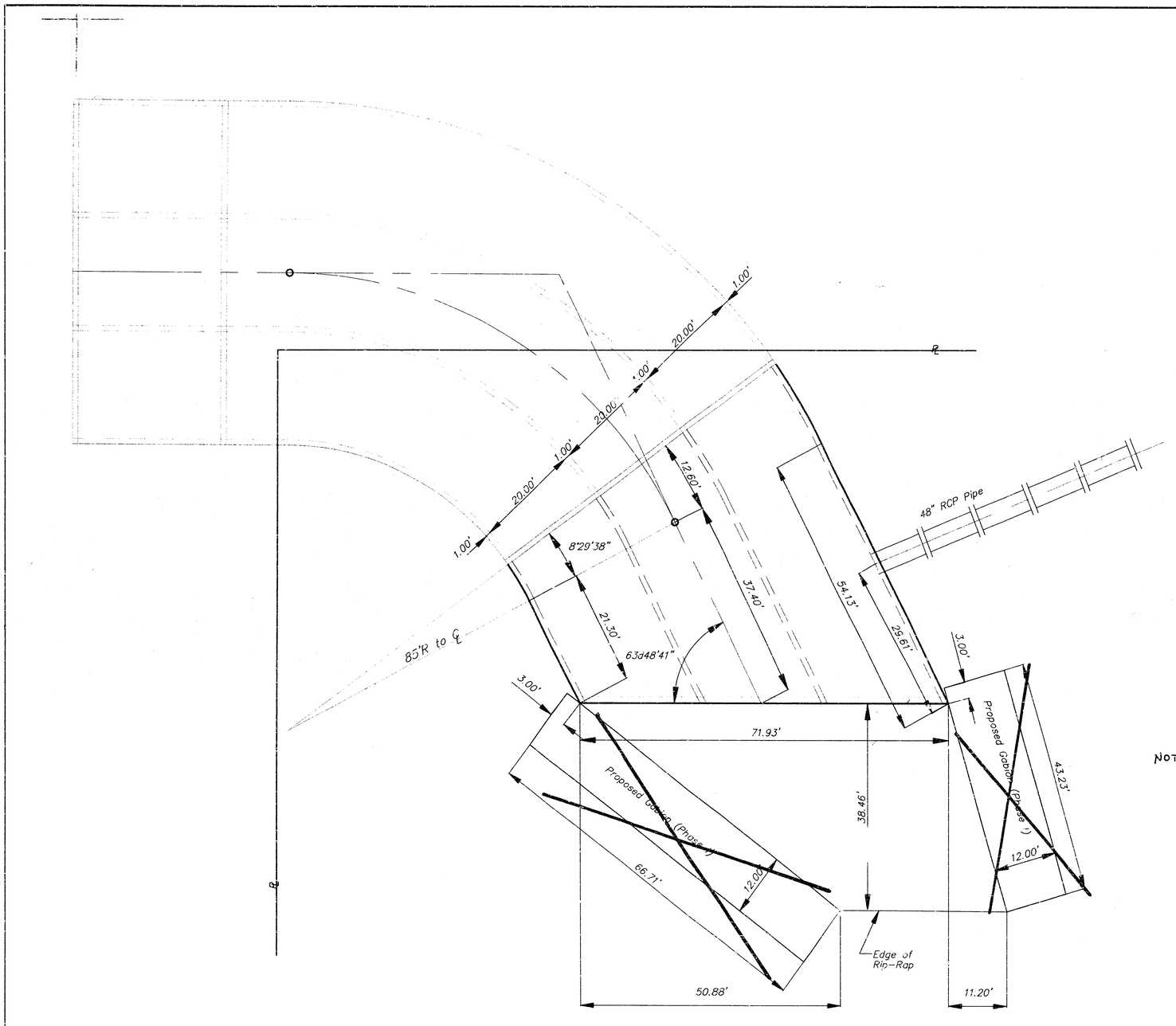
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work 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).

TIMOTHY R. AUSTIN 11496 KANSAS PROFESSIONAL ENGINEER

INSPECTORS: LYLE POWERS, CHRIS EDWARDS, JEFF BRADLEY } BAUGHMAN COMPANY

ASBUILT 3/24/97 JFB BAUGHMAN COMPANY.

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



SCALE: 1"=10'

GENERAL NOTES:

1. All construction is to be in accordance with the latest edition of the Standard Specifications for Road and Bridge Construction as published by the Kansas Department of Transportation.

2. Contractor shall take precautionary measures to protect adjacent buildings and properties from construction operations.

3. Contractor is to verify the existing box conditions prior to construction of the extension.

QUANTITIES:

The quantities shown are approximate and for information only.

Phase I:

Excavation	2088 C.Y.
Compacted Fill	850 C.Y.
Class A(AE) Concrete	350 C.Y.
Reinforcing Steel (Gr. 60)	44.93 TON
Gabions	330 C.Y.
Heavy Stone RipRap (1/4 ton)	250 SY
Handrail	96 L.F.

Phase II:

Excavation	2047 C.Y.
Compacted Fill	350 C.Y.
Gabions	701 C.Y.
Channel Lining	1860 S.Y.

DESIGN LOADING:

HS20-44

NOTE: PHASE 1 CONSTRUCTION DELETED
PHASE 2 CONSTRUCTION MODIFIED
SEE SHEET 7/9

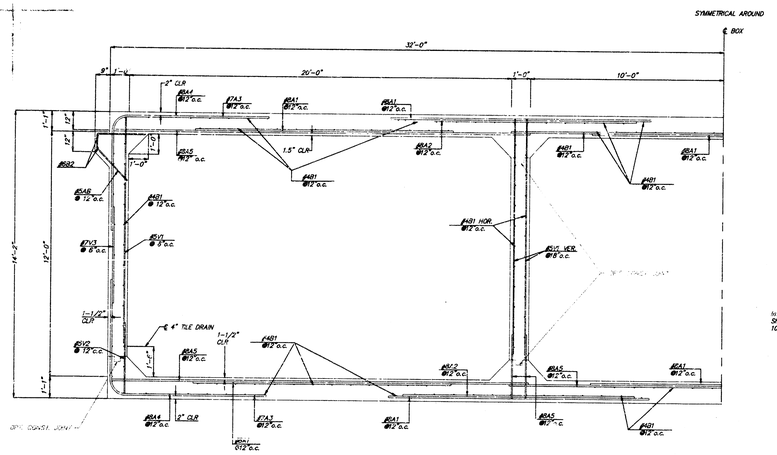
ASBUILT: 3/24/97 JFB
BAUGHMAN CO.

CIRCUIT CITY ADDITION
RCBC LAYOUT
WICHITA, KANSAS

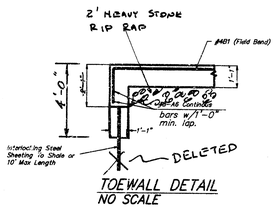
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER				SHEET
636 FPS (607861)				2 OF 9
DESIGN: JJ	DRAWN: TA	APPROVED: T.A.	DATE: 4/29/96	SCALE: 1"=10'

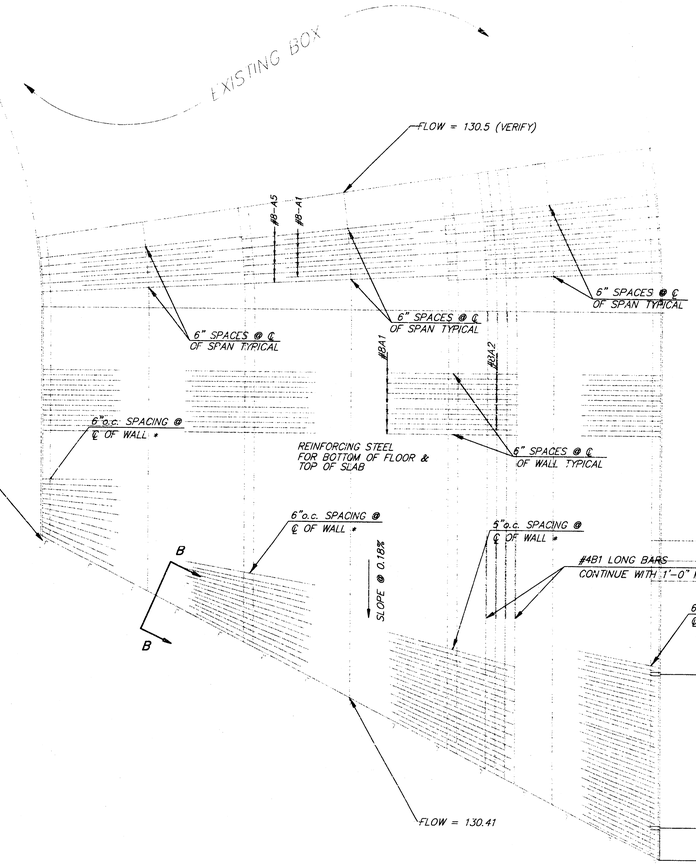
CIR_EAST_RCBC



SECTION THRU BOX
NO SCALE



TOEWALL DETAIL
NO SCALE

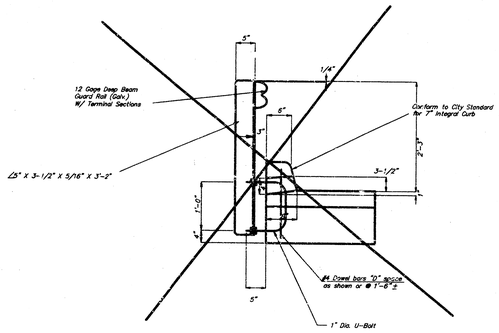


REINFORCING STEEL LAYOUT FOR TOP AND BOTTOM SLAB
NO SCALE:

* DECREASE SPACING OF BARS TO 4" THROUGHOUT LAST 3'

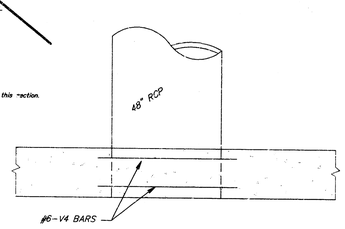
BAR LIST				
MARK	NO. REQ.	SIZE	LENGTH	SHAPE
A1	538	8	13' 6"	
A2	214	8	12' 0"	
A3	202	7	13' 6"	
A4	200	8	11' 6"	
A5	300	8	22' 0"	
A6	142	8	Stock	
AB	100	5	5' 6"	
B1	900 L.F.	4	Stock	Field Cut
B2	220 L.F.	6	Stock	Field Cut
V1	340	5	11' 10"	
V2	306	5	3' 5"	
V3	202	7	4' 9"	
V4	16	6	9' 0"	

BENDING DIAGRAMS	
A3	8'-0", 5'-6"
A4	5'-6", 8'-0"
AB	9", 2'-6", 2'-3"

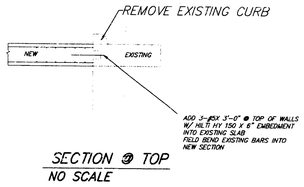


SECTION B-B
NO SCALE

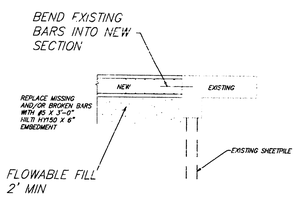
NOTE: See sheet 4 for this section.



48" RCP Box Blockout Detail STA 1+45.74
NO SCALE:



SECTION @ TOP
NO SCALE



SECTION @ BOTTOM
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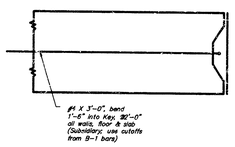
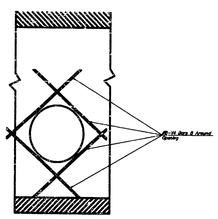


DETAIL OF KEY AT END OF BOX
NO SCALE



48" RCP Box Blockout Detail STA 1+45.74
NO SCALE



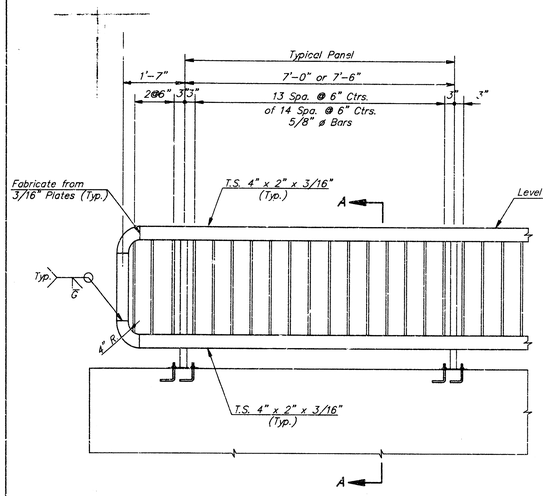
CIRCUIT CITY ADDITION
RCBC Extension
Details

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

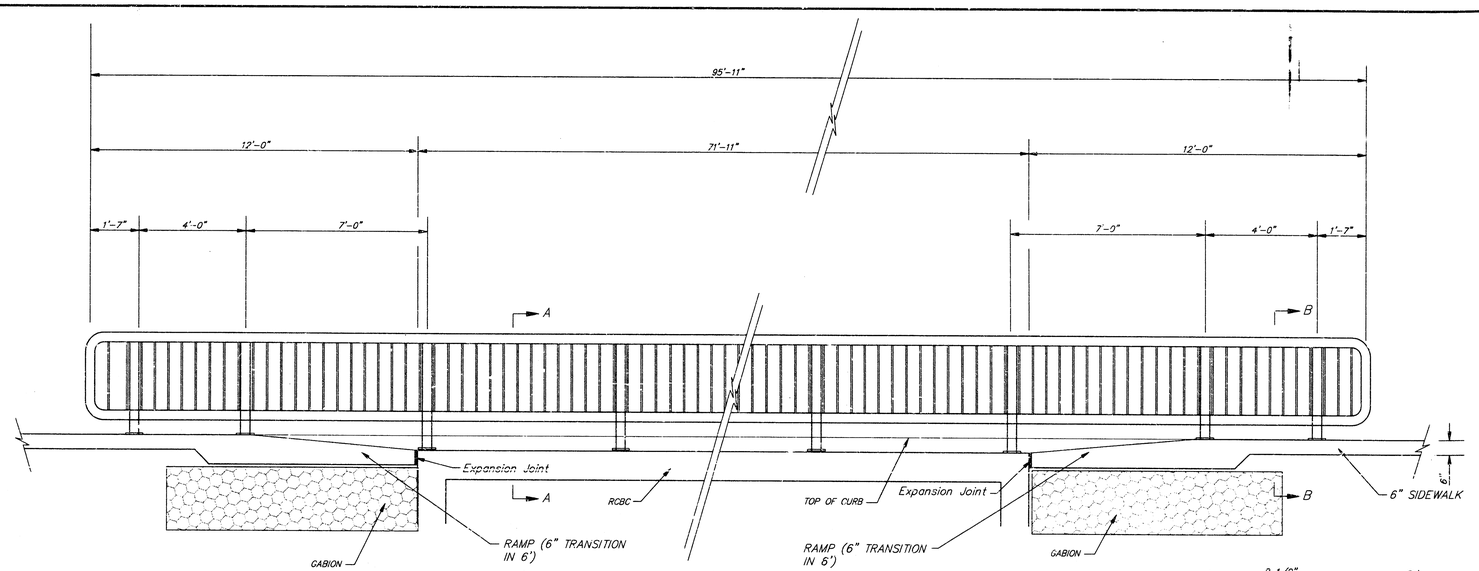
PROJECT NUMBER 636 PPS (607861)

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
	BLG	T.A.	6/10/96	NONE	3 OF 9

C:\PS_EAST\1\EXH1\2.FAIL

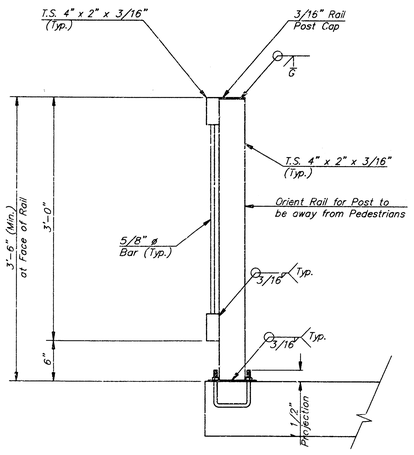


HANDRAIL ELEVATION

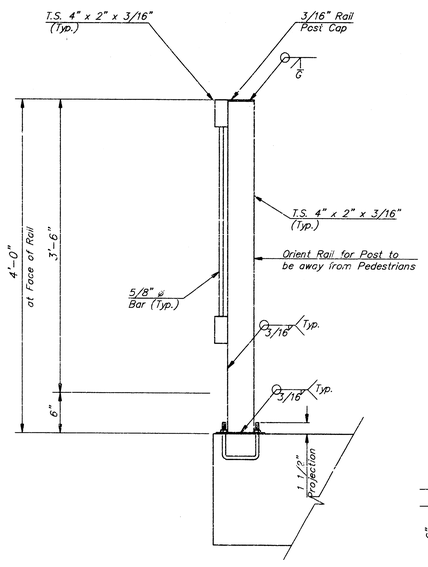


HANDRAIL ELEVATION

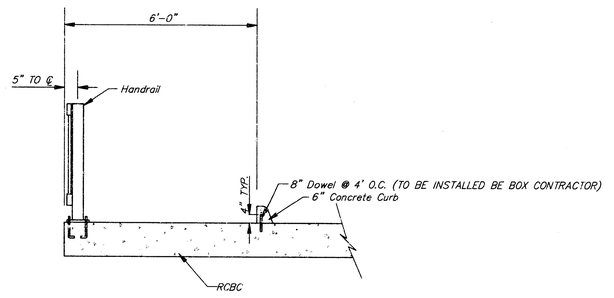
NOTE:
Sidewalk to be consiructed by others. Box contractor to coordinate installation of handrail with site contractor.



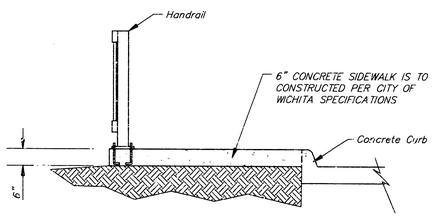
HANDRAIL DETAIL OVER SIDEWALK



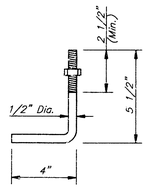
HANDRAIL DETAIL OVER RCBC



SECTION A–A



SECTION B–B

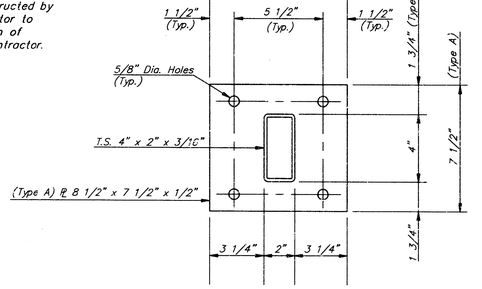


Galvanized (ATSM A153)

(May Substitute expandable anchor bolts when approved by the Engineer)

ANCHOR BOLT

(Orient to provide min. 2" edge clearance to face or adjacent bolts)



BASE PLATE

GENERAL NOTES

The horizontal members of the rail and posts shall be hollow structural tubing. All structural steel and tubing shall comply to A.S.T.M. Designation A36 or A500 Grade B respectively.

Rail shall be fabricated in lengths as shown.

Posts and bars shall be set vertical and shimmed if required.

The handrail shall be painted shop and field with an inorganic zinc–vinyl paint system complying with the Standard Specifications for State Road and Bridge Construction, 1990 Edition Kansas Department of Transportation.

Material and consiruction shall conform to the Structural Welding Code A.W.S. D1.1–88.

Shop details must be submitted and approved by the Engineer.

CIRCUIT CITY

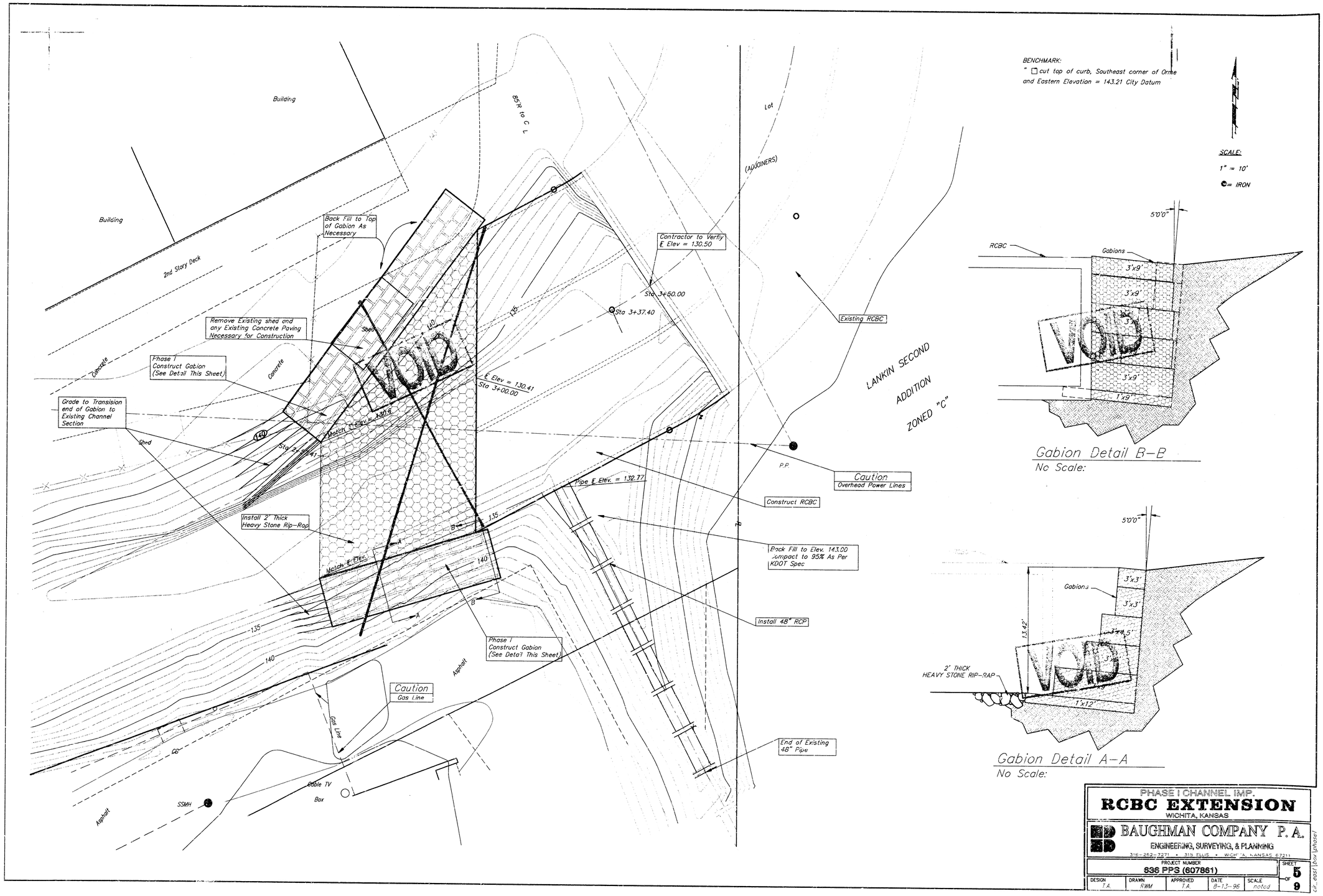
HANDRAIL DETAIL

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

PROJECT NUMBER

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
T.A.	STAFF	T.A.	8/16/96	NONE	4 OF 9

cir east\cad\handrail



PHASE I CHANNEL IMP.

RCBC EXTENSION

WICHITA, KANSAS

BAUGHMAN COMPANY P. A.

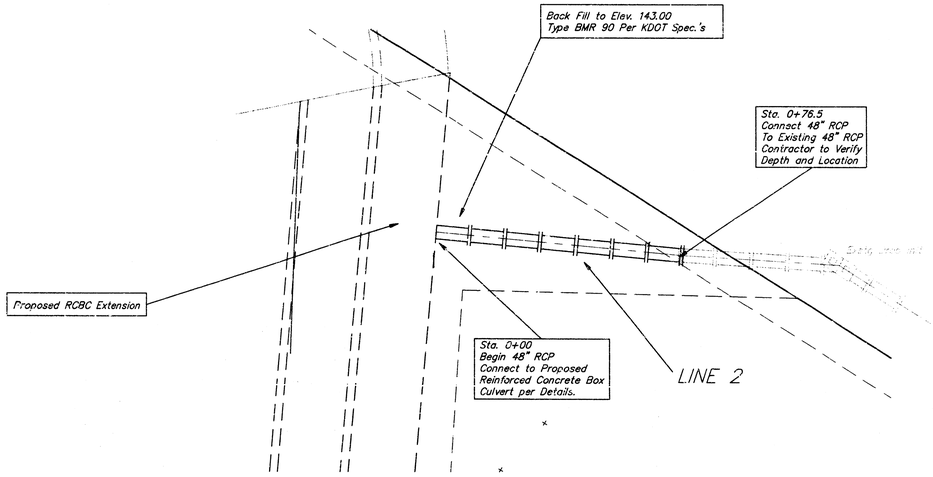
ENGINEERING, SURVEYING, & PLANNING

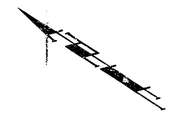
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER					SHEET
636 PPS (607861)					5 OF 9
DESIGN	DRAWN	APPROVED	DATE	SCALE	
T.A.	RWM	T.A.	8-13-96	noted	

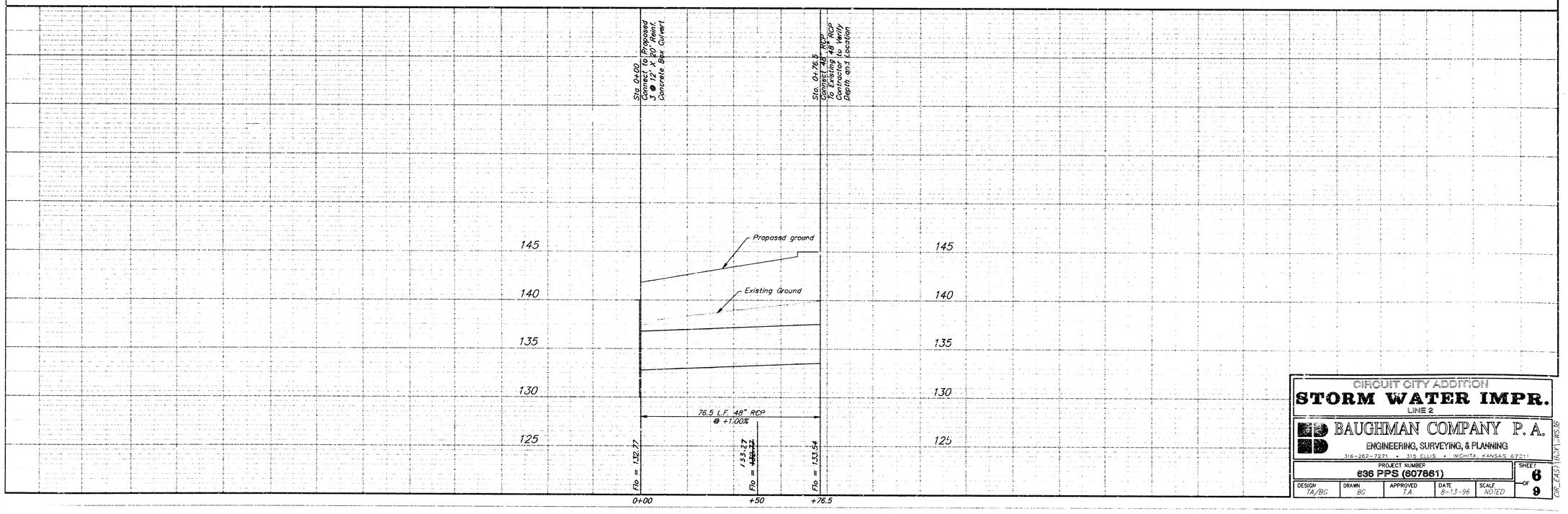
cir_east\box\phase1

BENCHMARK:
"□" cut top of curb, Southeast corner of Orme and Eastern Elevation = 143.21 City Datum





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

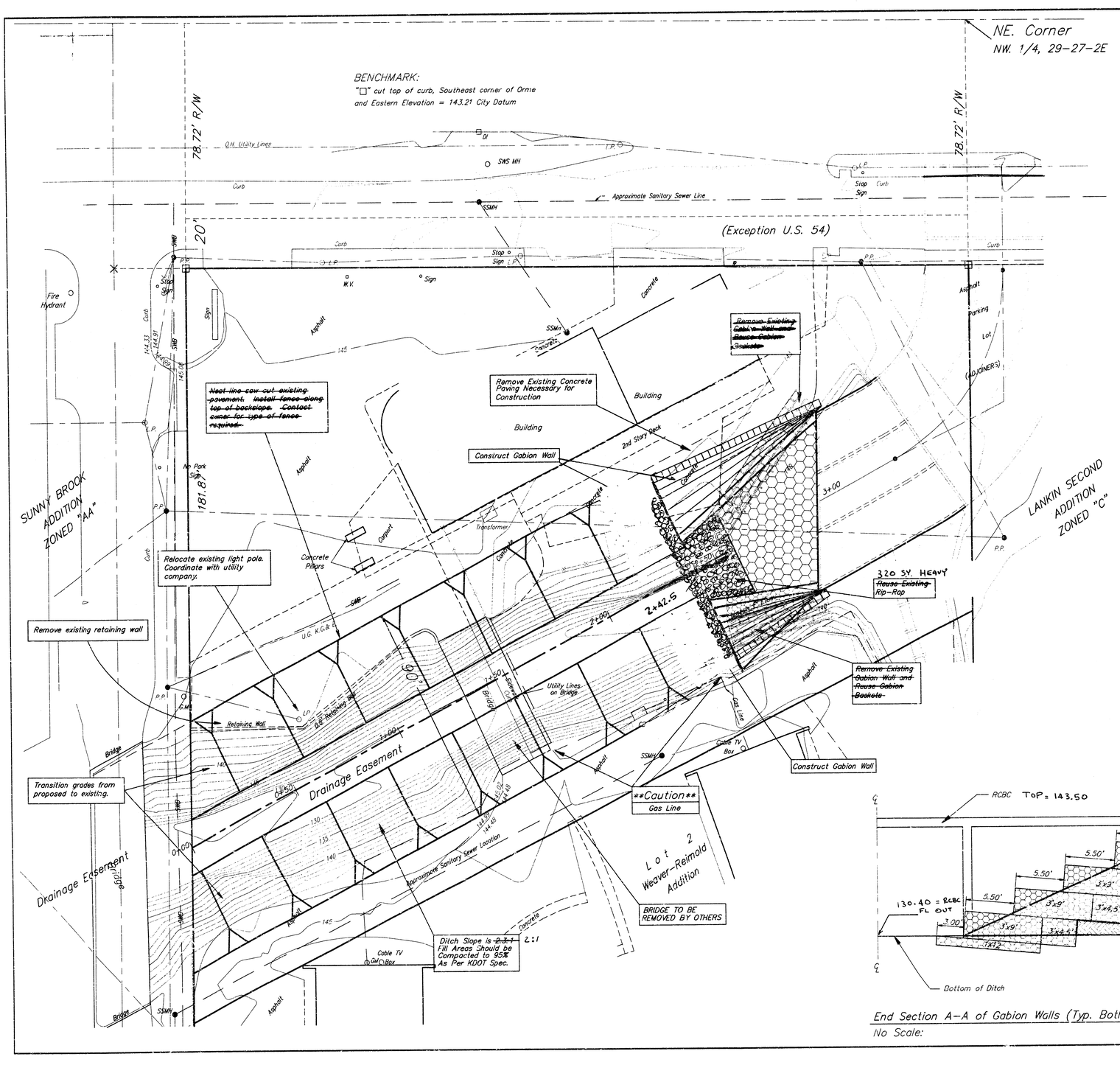


CIRCUIT CITY ADDITION
STORM WATER IMPR.
LINE 2

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

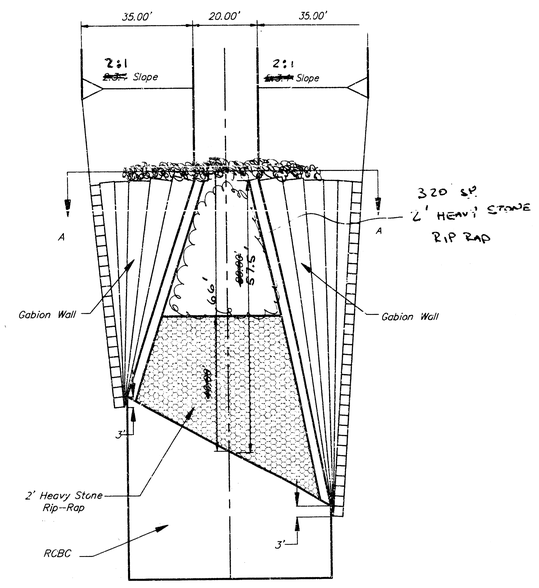
PROJECT NUMBER					SHEET
636 PPS (607861)					6 OF 9
DESIGN	DRAWN	APPROVED	DATE	SCALE	
TA/BG	BG	T.A.	8-13-96	NOTED	

CIR_EAST BOX\SWS36

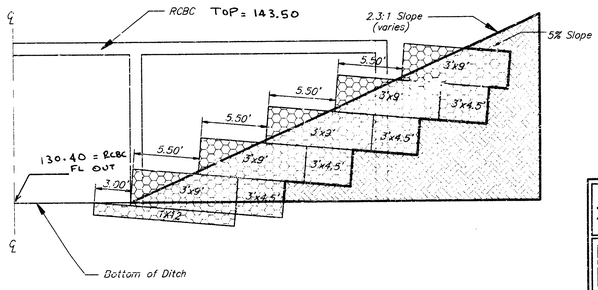


NOTE:
The completed channel shall be seeded then lined with erosion control material upon completion of the grading operations. Seed shall be K-31 Fescue applied at the rate of 350# per acre. Erosion control lining shall be North American Green C125 with a staple pattern of D. Material shall be installed in accordance with the manufacturer's specifications and recommendations.

SCALE:
1" = 20'
● = IRON



Plan View of Gabion Walls
Scale: 1"=20'



End Section A-A of Gabion Walls (Typ. Both Sides)
No Scale:

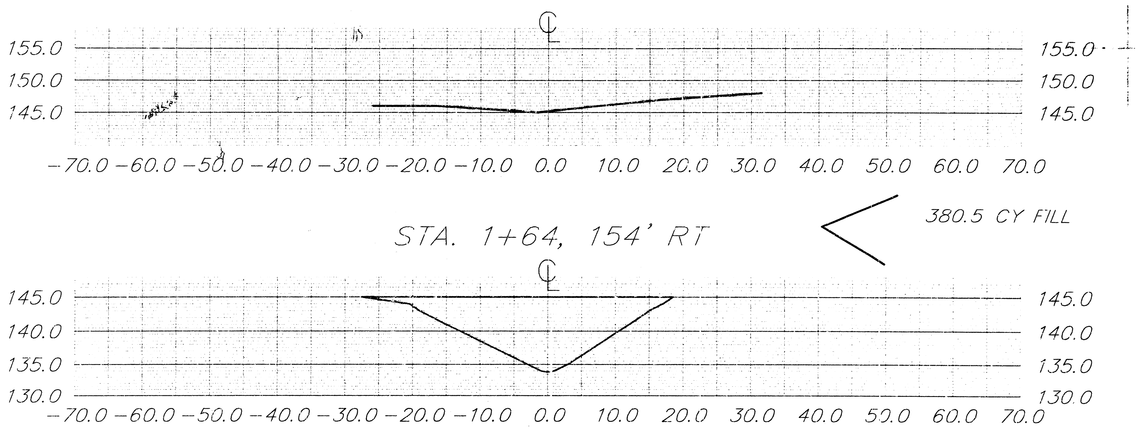
ASBUILT 3/24/97

PHASE II
DRAINAGE IMPROVEMENTS
WICHITA, KANSAS

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

PROJECT NUMBER					SHEET
636 PPS (607861)					7 OF 9
DESIGN	DRAWN	APPROVED	DATE	SCALE	
T.A.	RWM	T.A.	3-13-96	NOTED	

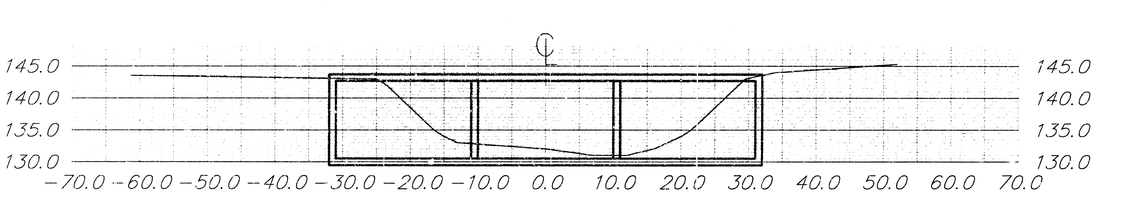
cir_east\box\phase2



STA. 1+64, 154' RT

380.5 CY FILL

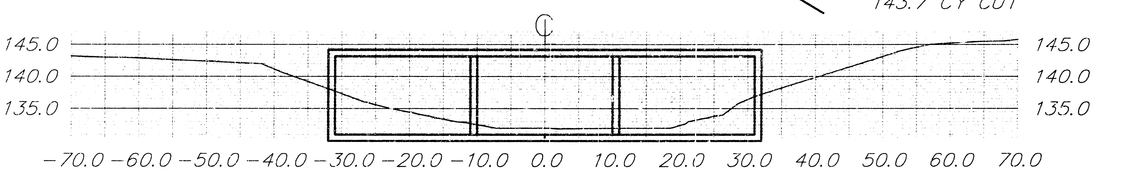
STA 1+64, 69' RT



3+50

28.4 CY FILL

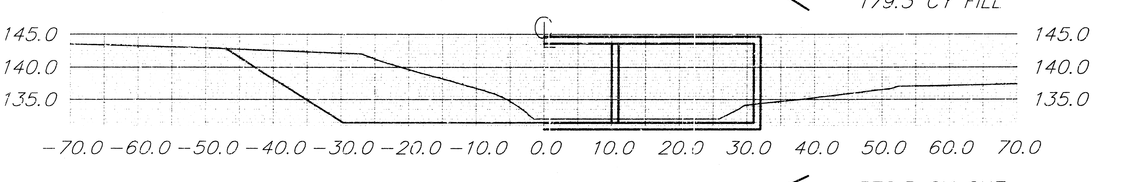
143.7 CY CUT



3+25

348 CY CUT

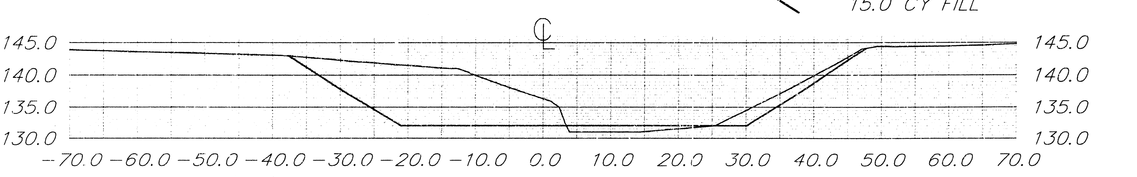
179.3 CY FILL



3+00

578.5 CY CUT

15.0 CY FILL



1+75

Shee Totals

Exc. = 2088 C.Y.

Fill = 468 C.Y.

CHANNEL CROSS SECTIONS FOR

Circuit City East

Phase I

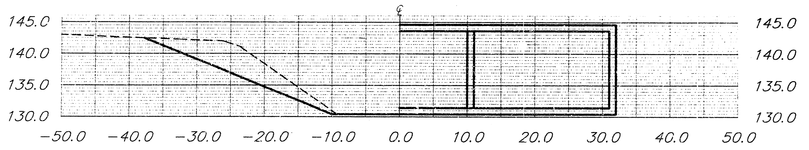
BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING & PLANNING

316-262-2221 • 315 EAST • WICHITA • KANSAS 67211

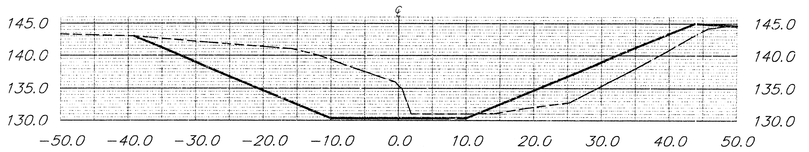
DESIGN	DRAWN	PROJECT NUMBER	SHEET
T.A.	STAFF	696 PPS (607981)	8 OF 9
	APPROVED T.A.	DATE 3/24/96	SCALE NOTED

CIR_EAST\BOX\PHSICROS



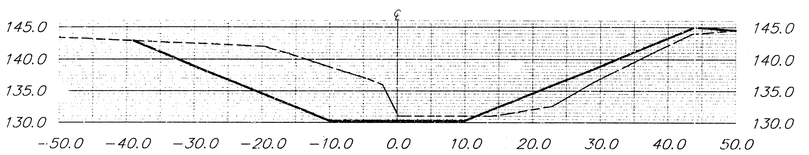
3+00

50.00' CUT CY.= 282.0
FILL CY.= 84.3



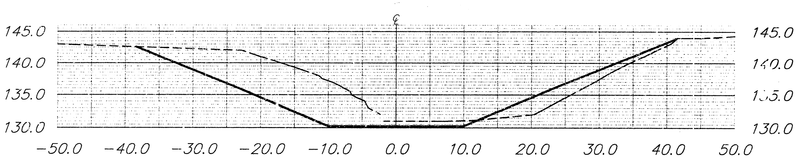
2+50

31.00' CUT CY.= 260.1
FILL CY.= 87.8



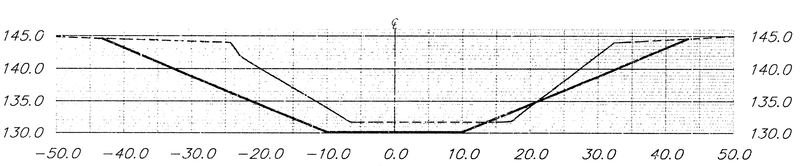
2+19

19.00' CUT CY.= 142.1
FILL CY.= 35.9



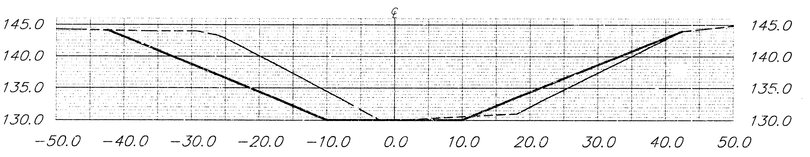
2+00

50.00' CUT CY.= 380.9
FILL CY.= 41.7



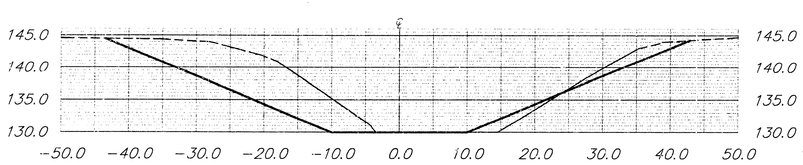
1+50

50.00' CUT CY.= 361.7
FILL CY.= 40.3



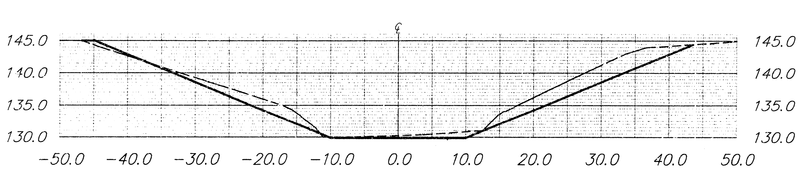
1+00

50.00' CUT CY.= 341.6
FILL CY.= 47.6



0+50

50.00' CUT CY.= 278.6
FILL CY.= 12.3



0+00

SHEET TOTALS
CUT CY. = 2047.0
FILL CY. = 349.9

CHANNEL CROSS SECTIONS FOR
Circuit City East
PHASE II

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262, 2271 - 315 ELLIS - WICHITA, KANSAS 67211

PROJECT NUMBER
838 PPS (607861)

SHEET 9 OF 9

DESIGN T.A. | DRAWN RWM | APPROVED T.A. | DATE 5/24/96 | SCALE NONE

CIR_EAST\BOX\PHS2CROS