SHEET NO.	TOTAL SHEETS
1	5

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STORM WATER DRAIN NO. 86

CITY OF WICHITA PROJECT NO. 468-76-245-82012-000-000-001

INDEX CODE: 750075

INDEX OF SHEETS

1. TITLE SHEET
2.-3. CHANNEL-PLAN AND PROFILE
4.-5. CHANNEL-CROSS SECTIONS

GENERAL NOTES

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. EXISTING UTILITIES AND THEIR LOCATION, 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 WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES 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.

CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOP 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.

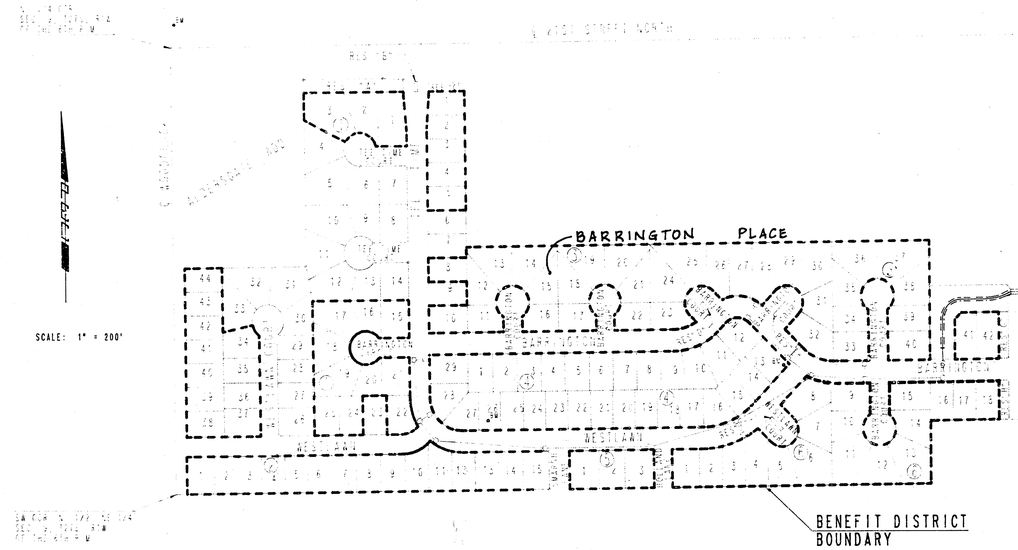
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) .. ..RS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-316-571-2611
CABLEVISION	262-4270 OR 263-2061
KPL GAS SERVICE	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER DEPARTMENT	268-4071
ARKLA GAS COMPANY	942-8350 OR 263-8161

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF ANY COFFERDAMS, EARTH BERMS, SHEET PILING ETC. AND/OR PUMPING REQUIRED TO ENSURE PROPER INSTALLATION OF RIPRAP. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER WORK ITEMS.

EXCESS MATERIAL FROM CHANNEL EXCAVATION SHALL BE WASTED AT SITE SHOWN ON THIS SHEET. HAUL TO THIS SITE SHALL BE CONSIDERED SUBSIDIARY TO OTHER WORK ITEMS AND SHALL BE COORDINATED WITH SEDGWICK COUNTY PERSONNEL. CONTACT PUBLIC SERVICE BUREAU OF SEDGWICK COUNTY (316) 268-7901.



SCALE: 1" = 200'

EARTHWORK

EXCAVATION

X-SECTIONS 6,910 CU. YDS.

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM

DATUM BENCH MARK: CITY DISC 70' N. AND 5' E. THIMBLE AT N. 1/4 COR. SEC. 10, T27S, R1W. 21ST ST. NORTH, 1/2 MILE E. OF RIDGE ROAD. ELEV.=1132.416

BENCH MARK: NGS MONUMENT AT N.E. COR 21ST ST. N. AND RIDGE ROAD ELEV.=1142.00

BENCH MARK: RR SPIKE IN W. FACE POWER POLE, E. SIDE RIDGE ROAD APPROX. 875' S. OF CENTERLINE 21ST. ST. N., 110' N. OF CENTERLINE BARRINGTON STREET. ELEV.=1144.18

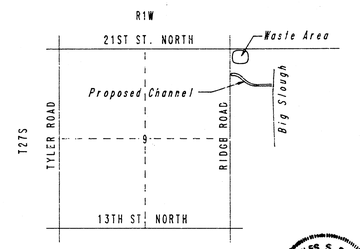
BENCH MARK: RR SPIKE IN W. FACE 24" ELM (IN WHEAT FIELD) IN LOT 28, BLOCK 4 ELEV.=1155.12

BENCH MARK: "T" POST SET FLUSH W/EXIST. GROUND 7' W. OF E. COR LOT 13, BLOCK 4.; W. SIDE OF INTERSECTION WESTLAWN AND BARRINGTON. ELEV.=1144.98

Waste Area for excess excavated material

Drainage Channel

Big Slough



VICINITY MAP

CHARLES S. BROWN LICENSED 7581 KANSAS PROFESSIONAL ENGINEER

OCTOBER, 1989

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Built 6/90

145

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Install 340.0 S.Y.
Light Stone Riprap
Contractor shall install
Cofferdam to ensure
proper installation of Riprap.
See Note on Title Sheet
and Toewall Details on
Sheet No. 3

CAUTION
Electric High Voltage
Overhead
Contact K,G & E

K.G.& E. Overhead (High Voltage)

SEDGWICK COUNTY ZOO SECOND ADDITION
LOT 12, BLOCK A

BIG SLOUGH

Sta. 11+00

℄ Channel

A — Drainage Easement by separate instrument — A

50'

50'

NOTE: CONTRACTOR SHALL SEED, MULCH, AND FERTILIZE CHANNEL BOTTOM AND SIDE SLOPES FROM STA. 12+20 TO STA. 25+42.22 PER CITY SPECIFICATIONS.

150' K,G & E Easement
(Misc. Book 445, Page 495)

10' Sanitary Sewer Easement
(Film 904, Page 873)

Existing 44" San. Sewer
E=1231.63

Sta. 16+55.08 P.C.

Sta. 12+20

Sta. 12+02

120.0± Match

120.0± 4:1

120.0± Match

130.0 4:1

130.1 +26

132.7 Match

132.7 4:1

130.1 Bot.

35.8'

15' Bot.

℄ Channel Curve Data
Δ=40°26'34"
D=9°32'57"
R=600.00'
T=221.01'
L=423.52'
E=39.41'

Sta. 20+78.60 P.T.

Sta. 22+22.75 P.T.

RIPRAP DETAIL
SCALE: 1"=20'

NOTE: OMIT RIPRAP TOEWALL BELOW WATER SURFACE.

SCALE: 1" = 40'

Existing Ground
4:1 Varies 4:1
15' Bottom

SECTION A-A

Existing Contour (Typ.)
P.I. Sta. 18+76.89
(back tangent)
N 89°19'16" E 655.03'
Proposed Contour (Typ.)
Sta. 109+13.54 ℄ Ridge Road=
℄ Channel Extended West

℄ RIDGE ROAD
109
S 0°14'10" E
110

Existing Ground
+0.50%
Proposed ℄ Channel
Water Surface (4/27/89)
Riprap

E=1130.00
E=1130.50
E=1131.00
E=1131.50
E=1132.00
E=1132.50
E=1133.00
E=1133.50
E=1134.00
E=1134.50

11 12 13 14 15+00 16 17 18 19 20+00 21

STORM WATER DRAIN NO. 86
C.O.W. PROJECT NO. 468-76-245-82012-000-001

CHANNEL GRADING
STA. 11+00.0 TO STA. 21+00.0

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed By	CSB, GDD
Drawn By	DEP
Job No.	32-89197-1
Date	OCT., 1989

Sheet 2 of 5

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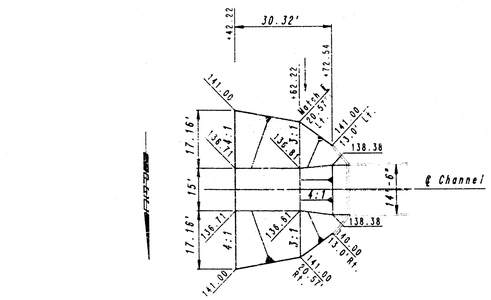
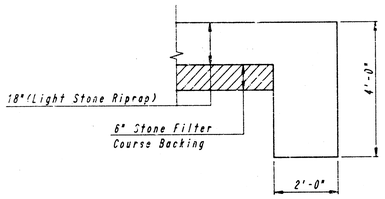


NOTE: OMIT TOEWALL ADJACENT TO RCB AND WINGWALLS.

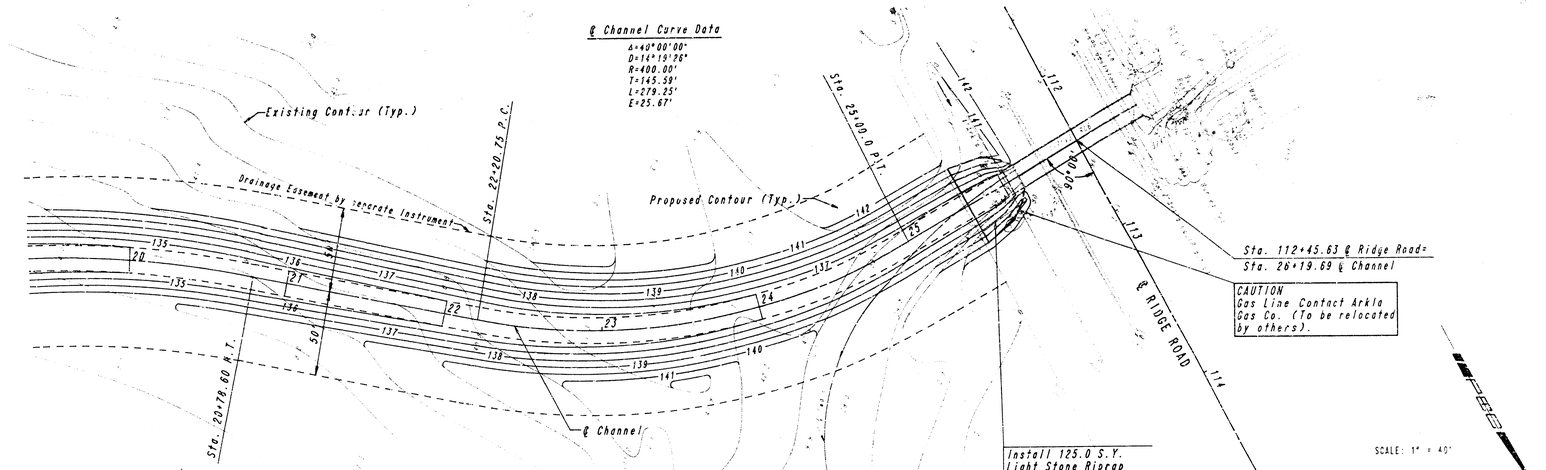
RIPRAP DETAIL

SCALE: 1" = 20'



TYPICAL SECTION THRU TOEWALL

NO SCALE

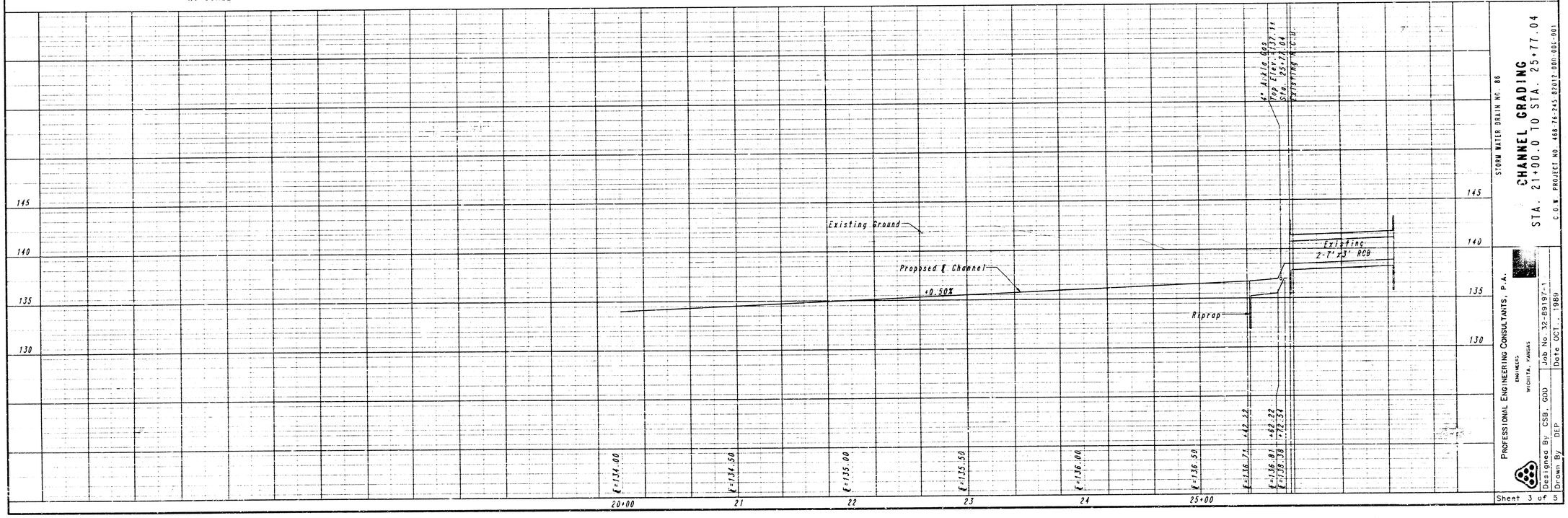


SCALE: 1" = 40'

NOTES

1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP EXCEPT AS NOTED.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

NOTE: SEE SHEET NO. 3 FOR TYPICAL CHANNEL SECTION.



STORM WATER DRAIN NO. 86

CHANNEL GRADING

STA. 21+00.0 TO STA. 25+77.04

C.O.W. PROJECT NO. 468.76-245.87012.000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed By CSB, GDD | Job No. 32-89197-1
Drawn By DEP | Date OCT., 1989

Sheet 3 of 5

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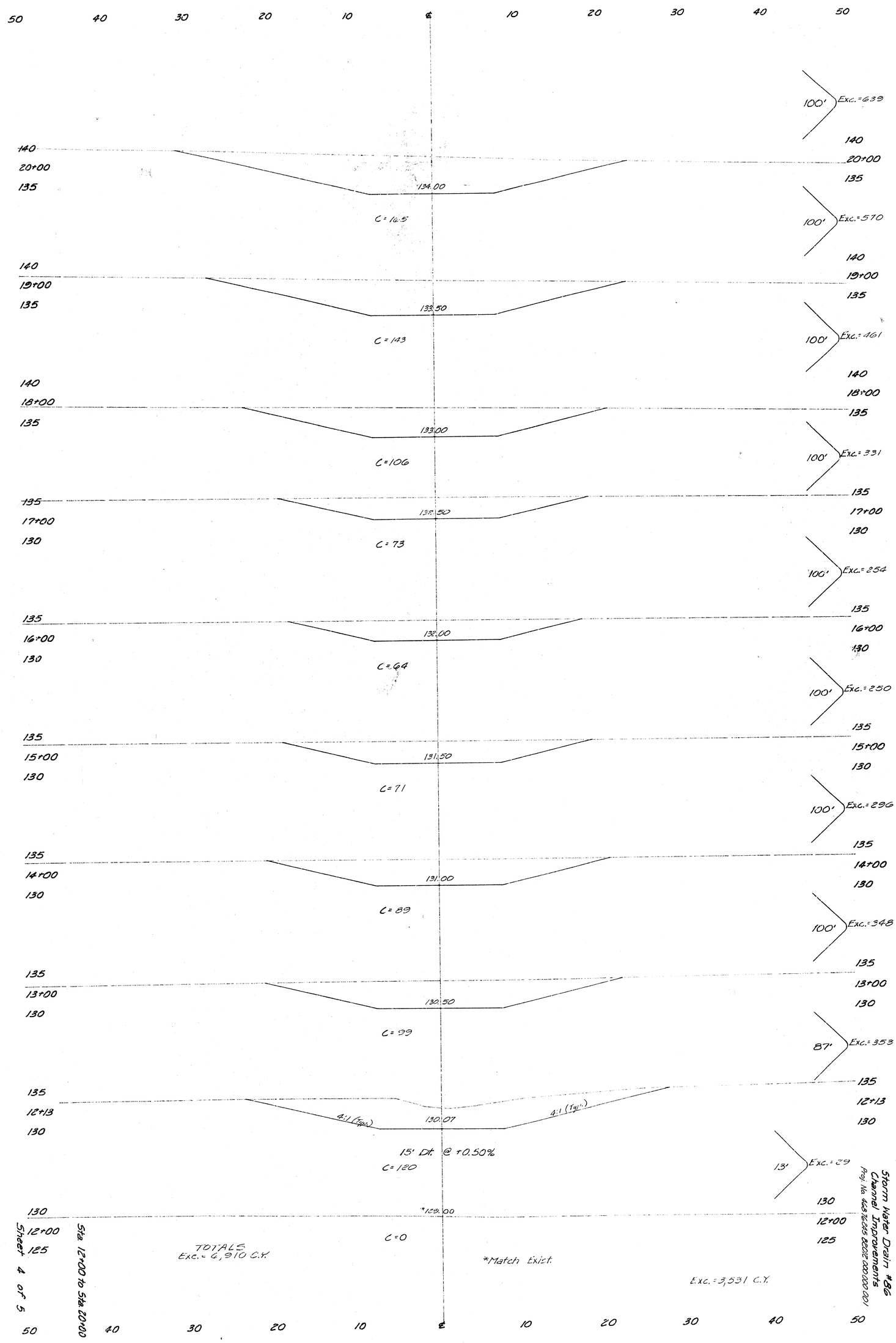

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50 40 30 20 10 ℄ 10 20 30 40 50

Sta. 25+72.54
C = 0

145
25+62.22
140
136.81
C = 95
10.32' Exc.= 18
145
25+62.22
140
20' Exc.= 79
145
25+42.22
140
145
25+42.22
140
136.71
C = 117
42.22' Exc.= 180
145
25+00
140
145
25+00
140
136.50
C = 113
100' Exc.= 548
145
24+00
140
145
24+00
140
136.00
C = 183
100' Exc.= 883
145
23+00
140
145
23+00
140
135.50
C = 294
100' Exc.= 941
145
22+00
140
145
22+00
140
135.00
C = 214
100' Exc.= 730
145
21+00
140
145
21+00
140
4:1 (Typ.)
134.50
15' Bottom
C = 150
4:1 (Typ.)
135
Exc.= 3,379 C.Y.

Sta. 21+00 to Sta. 25+62.22

Storm Water Drain #86
Channel Improvements
Proj. No. 468 76 245 8200 000 000 0001

40 30 20 10 ℄ 10 20 30 40 50

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