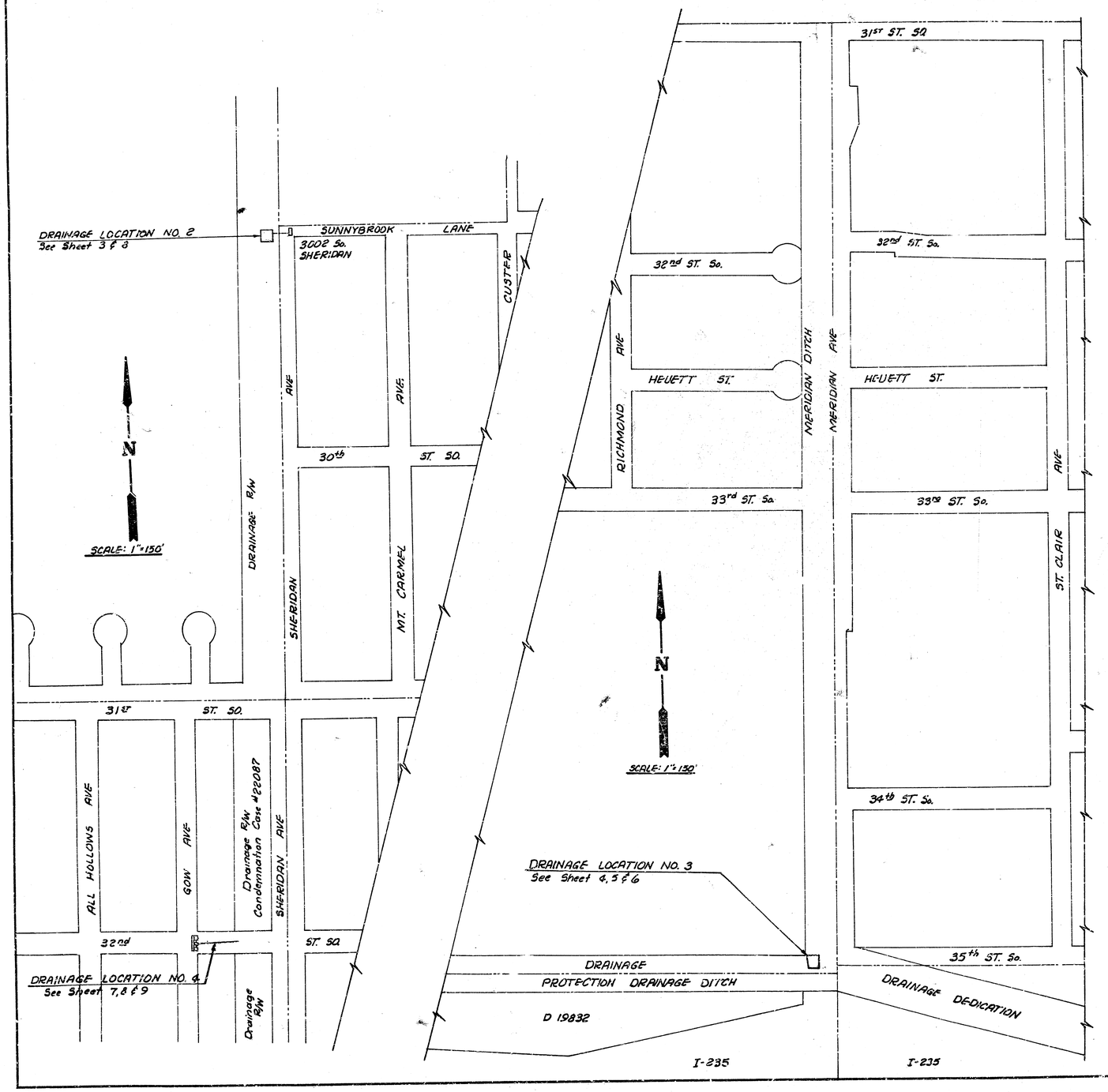
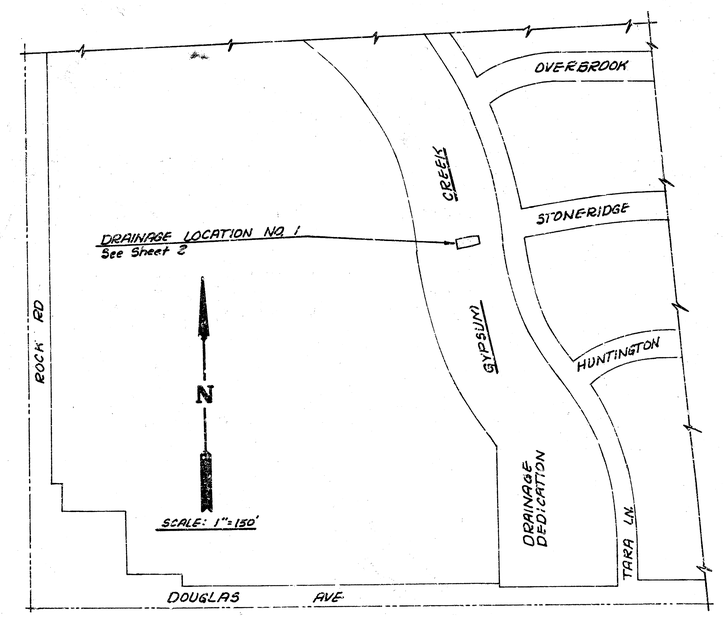
ALTER, REPAIR, OR RECONSTRUCT A PORTION OF THE FOLLOWING STORM SEWERS: GYPSUM CREEK, TARA TO STONERIDGE; SHERIDAN DRAIN AT 3002 S. SHERIDAN; MERIDIAN DITCH AT 33RD ST. AND 35TH ST.; 32ND ST. AND SHERIDAN DITCH (WEST BANK).

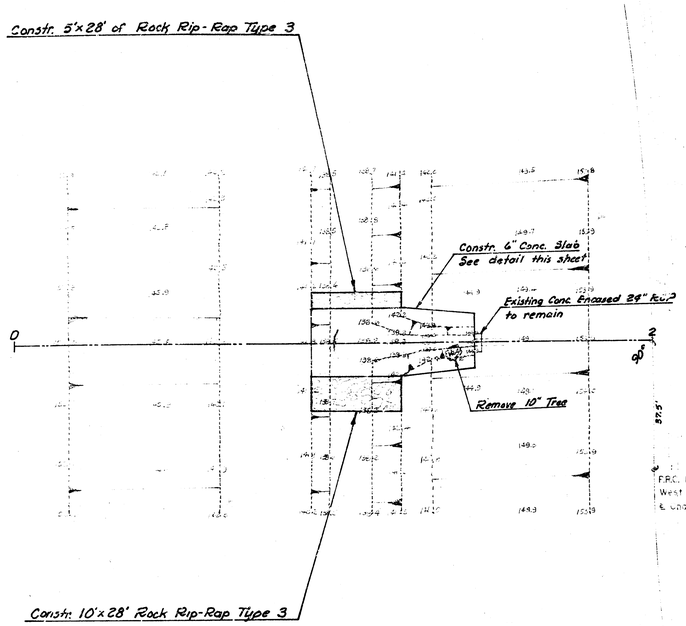


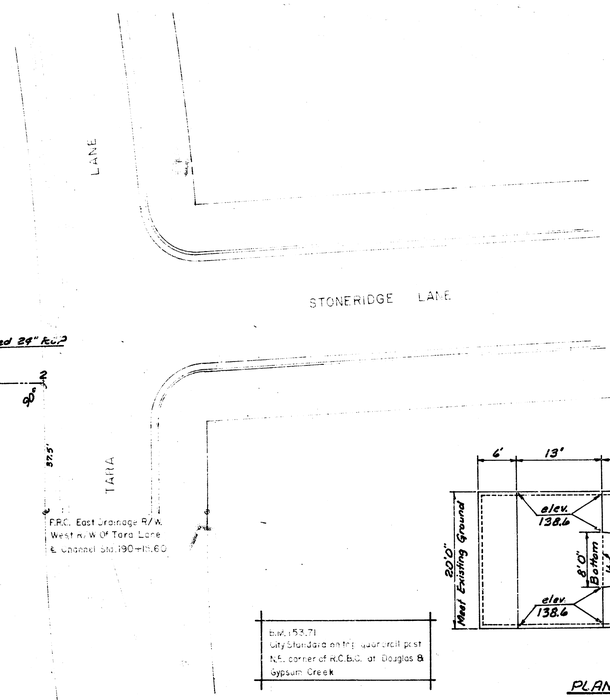


NOTE: Storm sewer inspection for 36" and smaller pipes shall be by telsvising.

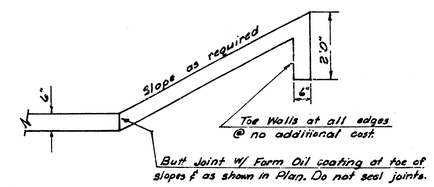
Precast inlet tops shall have a coating of linseed oil placed on all surfaces prior to placing the top on the inlet. Concrete shall be Air Entrained.

PROJECT DESCRIPTION	RECONSTRUCT SWS's
PROJECT NUMBER	468-76-245-81232-000-000-001
BOOK NO. / APPROVED BY / DATE	7-83
DRAWN BY WSK / REVISED	
CITY OF WICHITA DEPARTMENT OF ENGINEERING	
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUGGEMAN	Sheet 1 of 9

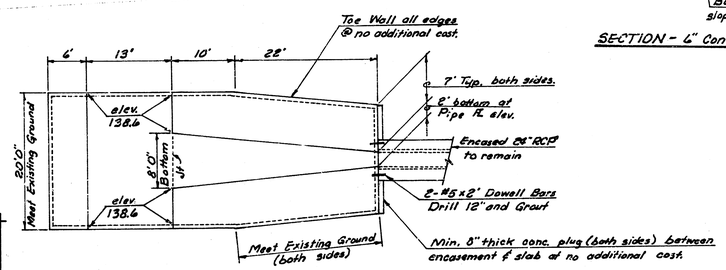




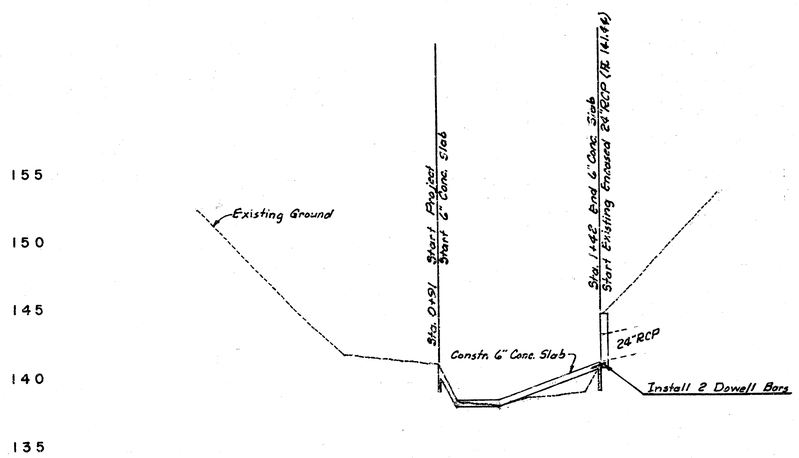
Scale: 1"=20'



SECTION - 6" Conc. Slab (no rebars)
Scale: 1/8" = 1'0"



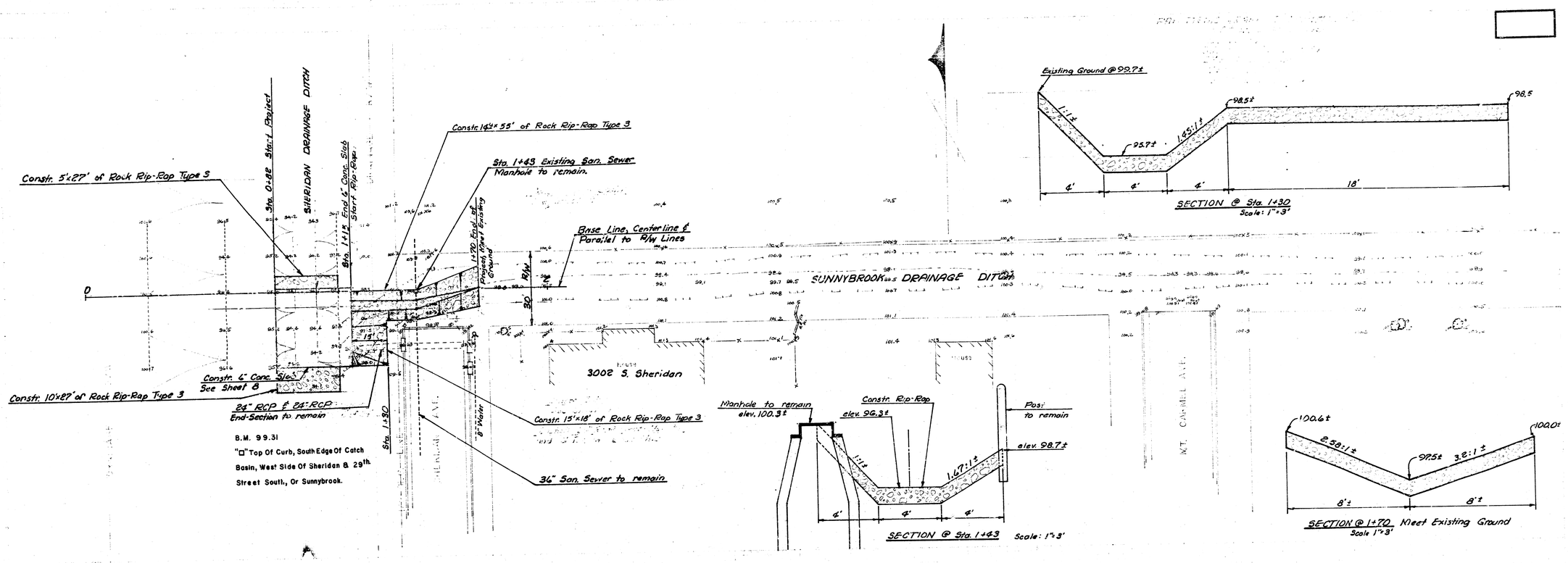
PLAN - 6" Conc. Slab
Scale: 1"=10'

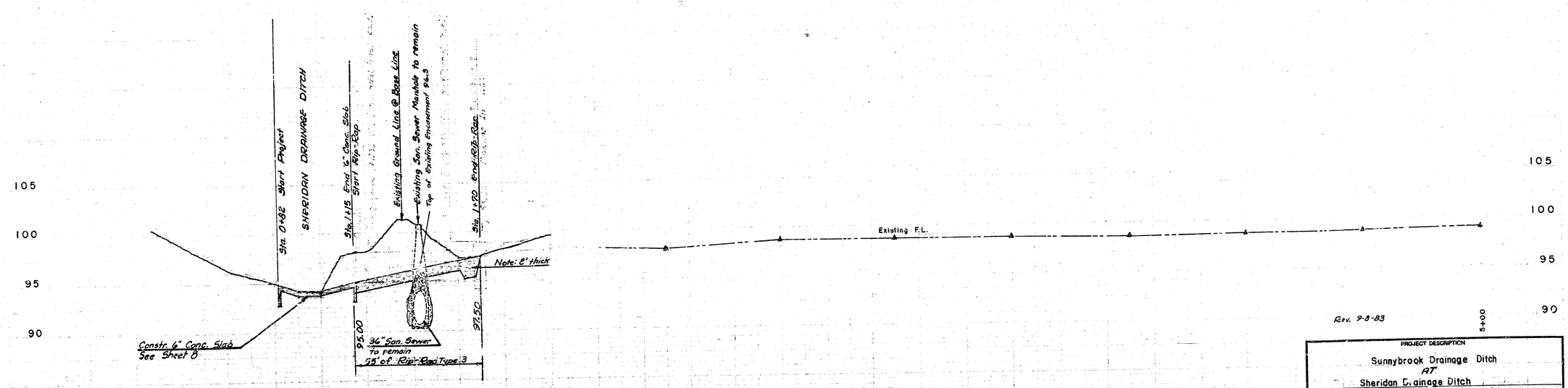


PROJECT DESCRIPTION		
EXTENSION OF 24" R.C.P. STORM WATER DRAIN AT STONERIDGE LANE & GYPSUM CREEK		
PROJECT NUMBER 468-76-245-81232-000-000-001		
BOOK NO. LES 27	APPROVED BY	DATE 3-9-83
DRAWN BY W.E.S.		REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING		2/9
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUGGEMAN		SCALE 1" = 20'

DRAINAGE LOCATION NO. 1 Sheet 2 of 9

155
150
145
140
135



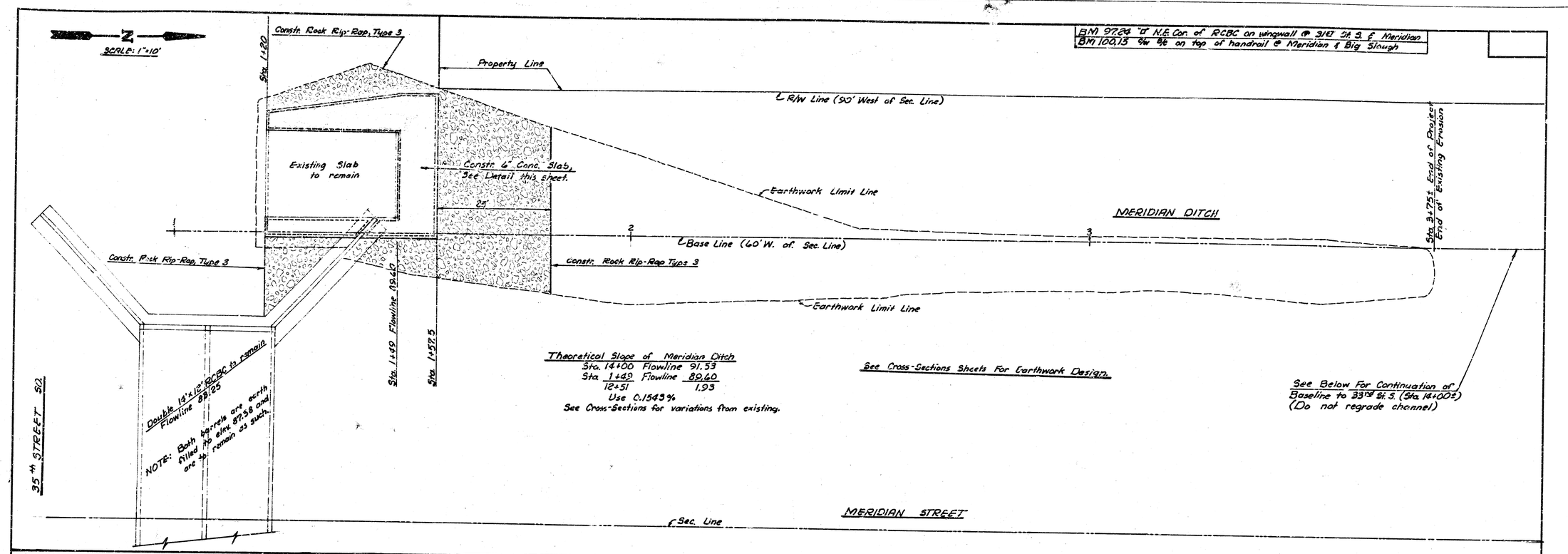


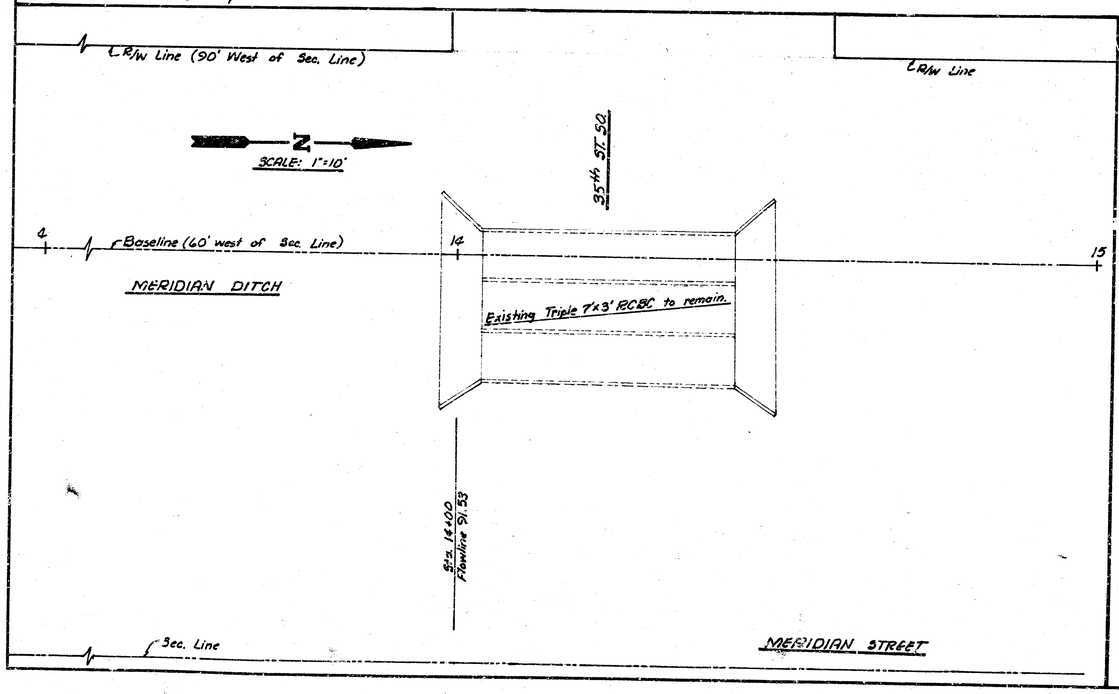
Rev. 9-8-83

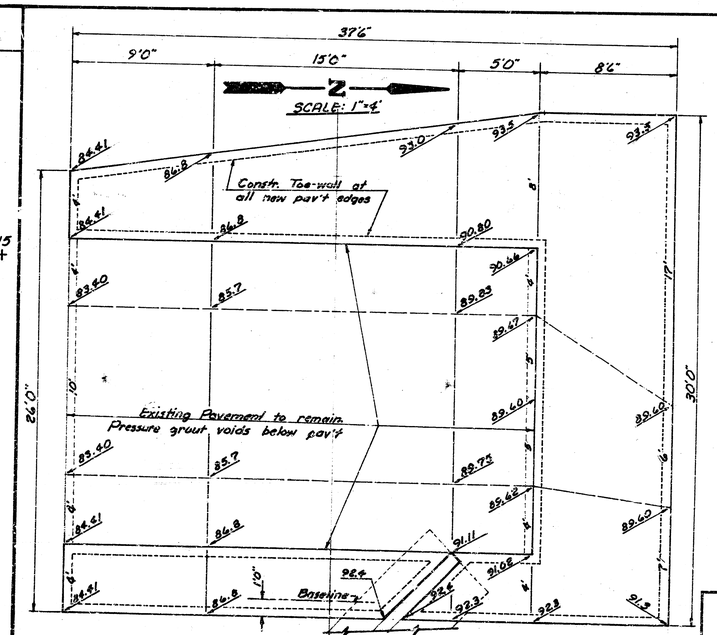
PROJECT DESCRIPTION		
Sunnybrook Drainage Ditch AT Sheridan Drainage Ditch		
PROJECT NUMBER		
468-76-245-81232-000-000-001		
BOOK NO. LES 20	APPROVED BY	DATE 3-7-83
DRAWN BY W.E.S.		REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING		
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUGGEMAN		SCALE 1" = 20'

DRAINAGE LOCATION NO. 2

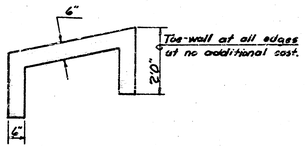
Sheet 3 of 9







6" CONC. SLAB PLAN – DRAINAGE LOCATION NO. 3
Scale: 1"=4'

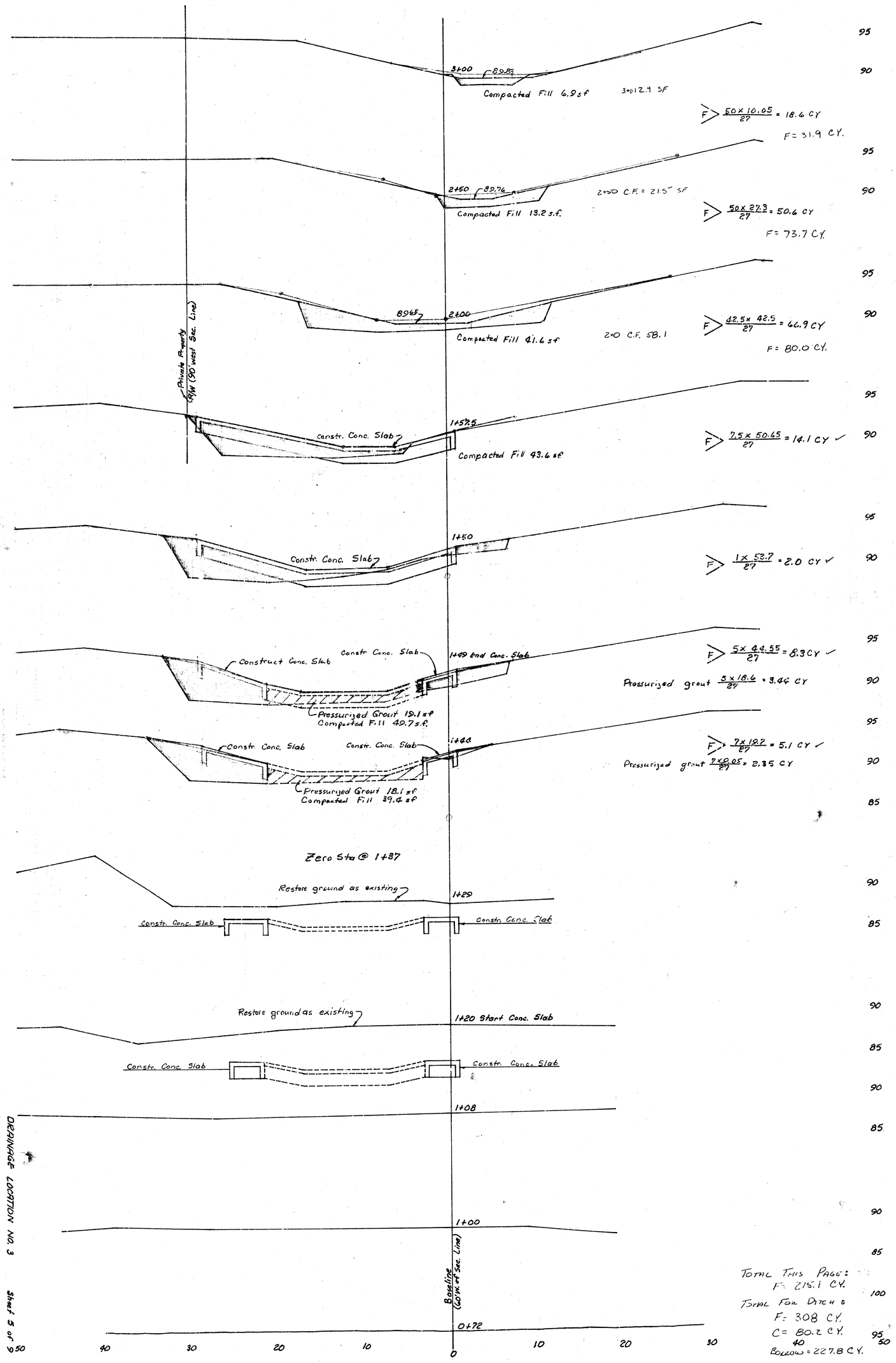


TYPICAL SECTION (6" Conc. Slab)
SCALE: 1"=2'

PROJECT DESCRIPTION
RECONSTRUCT SWS's

PROJECT NUMBER
468-'76-81232-000-000-001

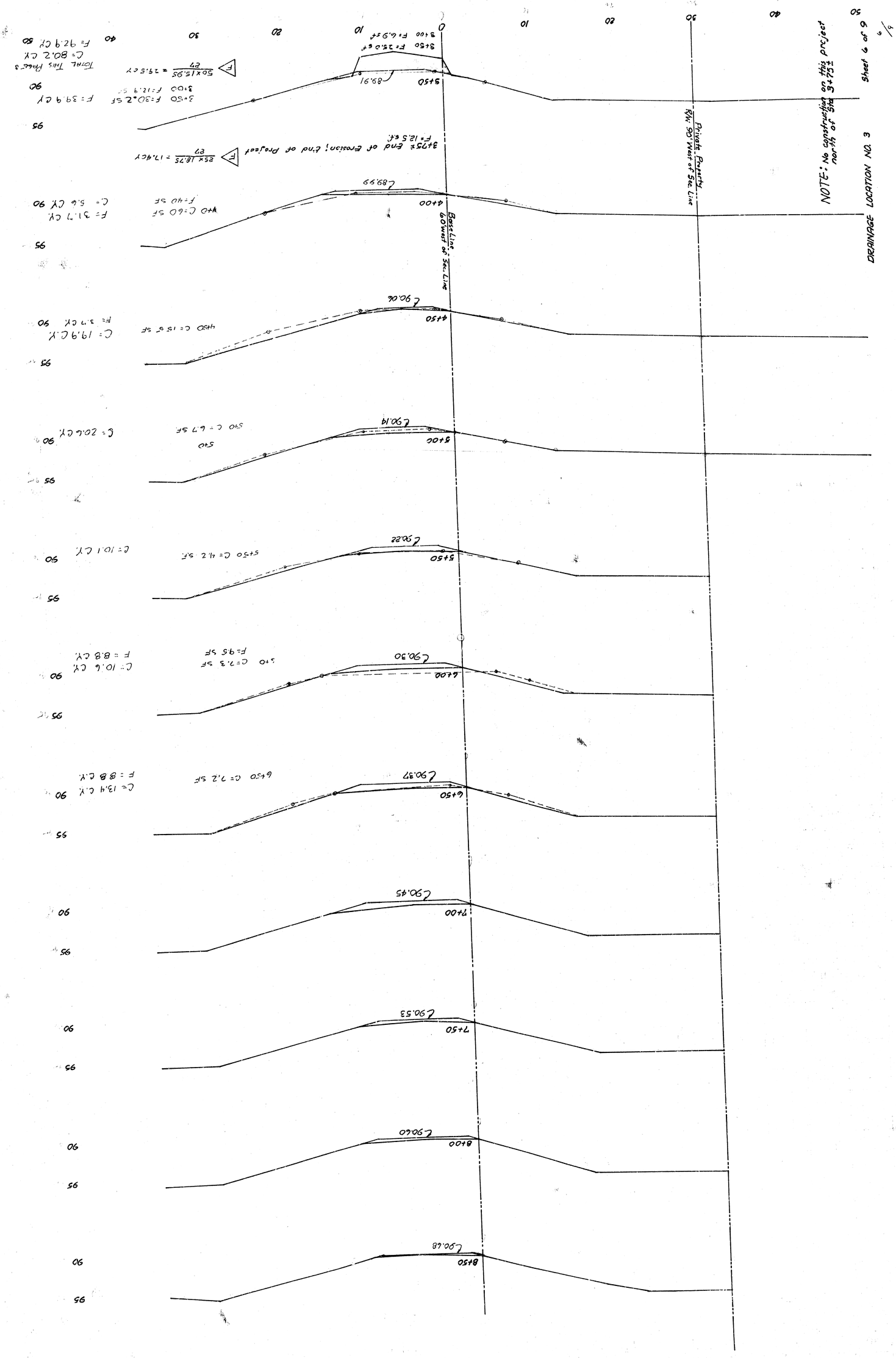
DRAINAGE LOCATION NO. 3 Sheet 4 of 9

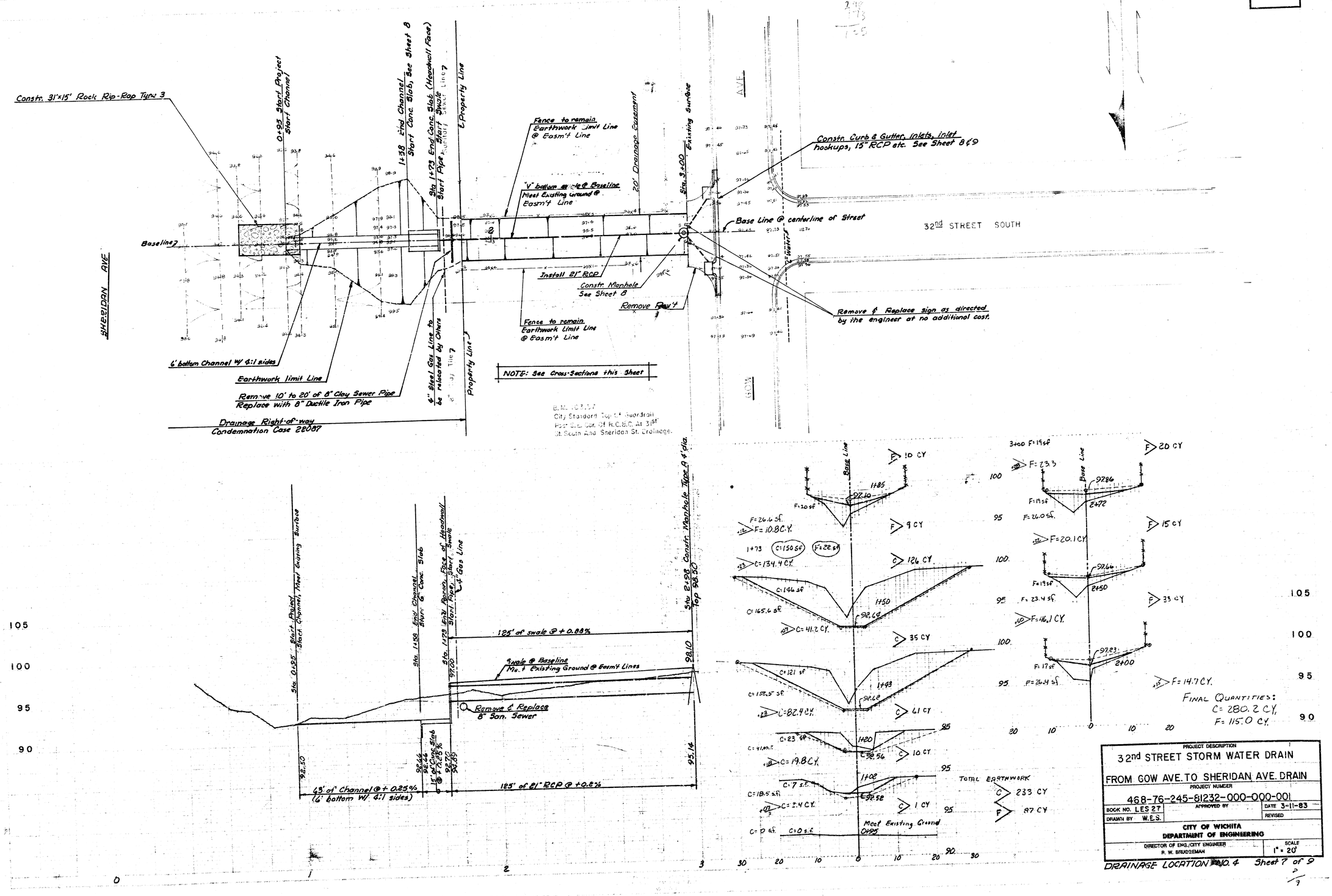


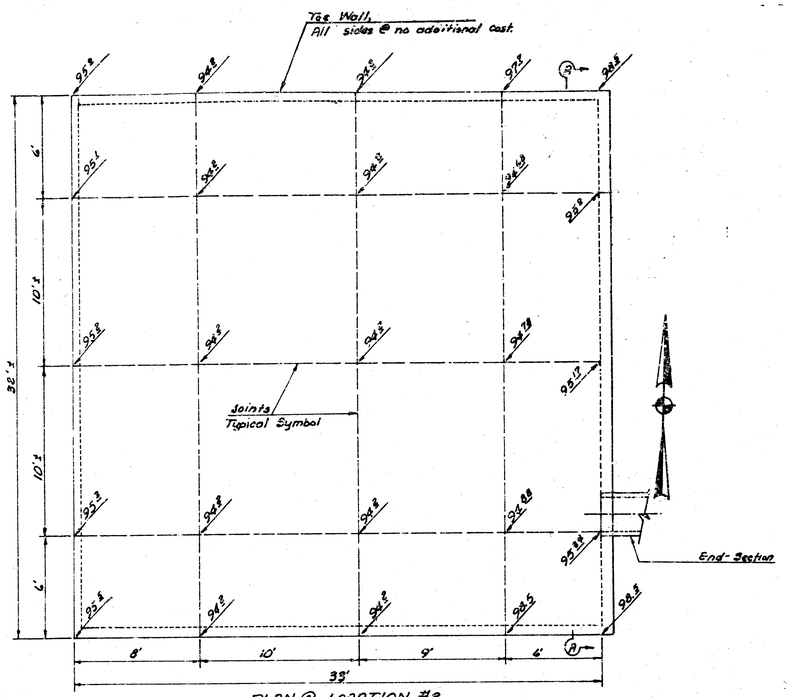
Total This Page:
F = 215.1 C.Y.
Total For Ditch 8
F = 308 C.Y.
C = 80.2 C.Y.
Borrow = 227.8 C.Y.

DRAINAGE LOCATION NO. 3 Sheet 5 of 9

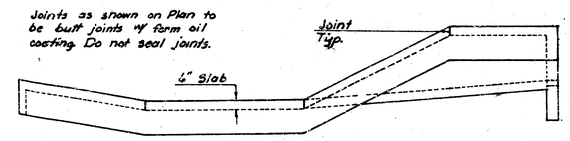
5/7


8+50
90.48
95
8+00
90.60
95
7+50
90.53
90
95
7+00
90.45
90
95
6+50
90.37
C= 13.4 C.Y.
F = 8.8 C.Y.
6+50 C= 7.2 S.F.
95
6+00
90.30
90
6+0 C=7.3 S.F.
F=9.5 S.F.
C= 10.6 C.Y.
F = 8.8 C.Y.
95
5+50
90.22
90
5+50 C= 4.2 S.F.
C= 10.1 C.Y.
95
5+00
90.14
90
5+0
5+0 C = 6.7 S.F.
C= 20.6 C.Y.
95
4+50
90.06
90
4+50 C= 15.5 S.F.
C= 19.9 C.Y.
F= 3.7 C.Y.
95
4+00
89.99
90
4+00 C=6.0 S.F.
F=4.0 S.F.
C= 5.6 C.Y.
F= 31.7 C.Y.
95
3+50
89.91
90
3+50 F=30.2 S.F.
3+00 F=12.9 S.F.
50x15.95 / 27 = 29.5 C.Y.
Total This Page
C= 80.2 C.Y.
F= 92.9 C.Y.
95
3+75± End of Erosion; End of Project
F= 12.5 S.F.
25x18.75 / 27 = 17.4 C.Y.
Private Property
Rt. 90' West of Sta. Line
Base Line
60' West of Sta. Line
NOTE: No construction on this project north of Sta. 3+75±
DRAINAGE LOCATION NO. 3
Sheet 6 of 9
0
10
20
30
40
50

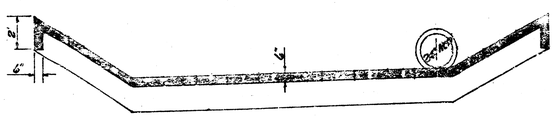

Constr. 31'x15' Rock Rip-Rap Type 3
0+95 Start Project
Start Channel
1+38 End Channel
Start Conc. Slab, See Sheet 8
Sta. 1+73 End Conc. Slab (Headwall Face)
Start Pipe
Start Swale
Sanitary Sewer Line 7
℄ Property Line
Fence to remain
Earthwork Limit Line
@ Easm't Line
"V" bottom swale @ Baseline
Meet Existing Ground @
Easm't Line
20' Drainage Easement
Sta. 3+00
Existing Surface
Constr. Curb & Gutter, inlets, inlet
hookups, 15" RCP etc. See Sheet 8 & 9
Base Line @ centerline of Street
32nd STREET SOUTH
SHERIDAN AVE.
Baseline
Install 21" RCP
Constr. Manhole
See Sheet 8
Remove Pav't
Remove & Replace sign as directed
by the engineer at no additional cost.
6' bottom Channel w/ 4:1 sides
Earthwork limit Line
Remove 10' to 20' of 8" Clay Sewer Pipe
Replace with 8" Ductile Iron Pipe
4" Steel Gas Line to
be relocated by Others
Property Line
NOTE: See Cross-Sections this Sheet
Drainage Right-of-way
Condemnation Case 28087
B.M. 1087.7
City Standard Type 4 Guardrail
Post S.E. Cor. Of R.C.B.C. At 31st
St. South And Sheridan St. Drainage.
Sta. 0+95 Start Project
Start Channel, Meet Existing Surface
Sta. 1+38 End Channel
Start 6" Conc. Slab
Sta. 1+73 End Conc. Face of Headwall
Start Pipe, Start Swale
4" Gas Line
Sta. 2+98 Constr. Manhole Type A 4' dia.
Top 98.50
125' of swale @ + 0.88%
Swale @ Baseline
Meet Existing Ground @ Easm't Lines
Remove & Replace
8" San. Sewer
43' of Channel @ + 0.25%
(6' bottom W/ 4:1 sides)
15' of Conc. Slab
@ + 0.25%
125' of 21" RCP @ + 0.2%
98.50
98.10
97.00
96.46
96.46
96.70
96.59
95.14
105
100
95
90
Base Line
1+85
97.40
F=20 sf
F=26.6 sf.
F=10.8 C.Y.
1+73
C=150 sf
F=22 sf
C=134.4 C.Y.
C=146 sf
C=165.6 sf
1+50
92.64
C=41.2 C.Y.
C=121 sf
C=152.5 sf
1+43
92.62
C=82.4 C.Y.
C=23 sf
1+20
92.56
C=19.8 C.Y.
C=7 sf
1+02
92.52
C=2.4 C.Y.
C=0 sf
Meet Existing Ground
0+95
10 CY
9 CY
126 CY
35 CY
41 CY
10 CY
1 CY
3+00 F=19 sf
F=23.3
97.86
2+72
F=19 sf
F=26.0 sf.
F=20.1 CY
97.66
2+50
F=19 sf
F=23.4 sf.
F=16.1 CY.
97.23
2+00
F=17 sf
F=26.4 sf.
F=14.7 CY.
20 CY
15 CY
23 CY
FINAL QUANTITIES:
C= 280.2 C.Y.
F= 115.0 C.Y.
TOTAL EARTHWORK
C 233 CY
F 87 CY
PROJECT DESCRIPTION
32nd STREET STORM WATER DRAIN
FROM GOW AVE. TO SHERIDAN AVE. DRAIN
PROJECT NUMBER
468-76-245-81232-000-000-001
BOOK NO. LES 27
APPROVED BY
DATE 3-11-83
DRAWN BY W.E.S.
REVISED
CITY OF WICHITA
DEPARTMENT OF ENGINEERING
DIRECTOR OF ENG./CITY ENGINEER
R. W. BRUGEMAN
SCALE 1" = 20'
DRAINAGE LOCATION NO. 4
Sheet 7 of 9



PLAN @ LOCATION #2
SCALE: 1"=4'



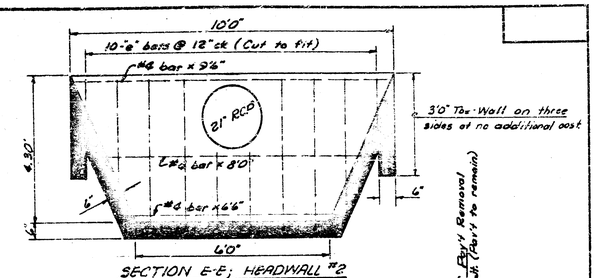
SIDE VIEW
SCALE: 1"=4'



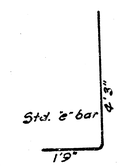
SECTION A-A
SCALE: 1"=4'

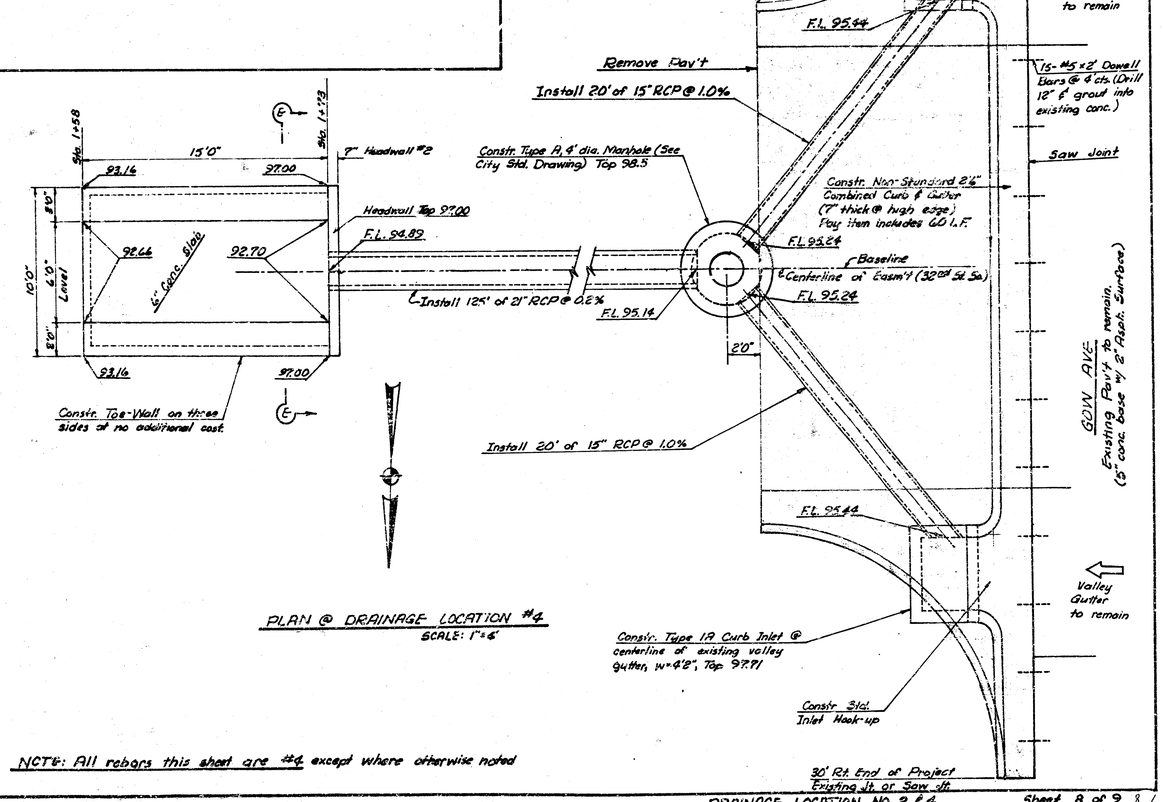
DRAINAGE LOCATION NO. 2

Rev. 9/8/83



SECTION E-E; HEADWALL #2
Scale: 1"=2'

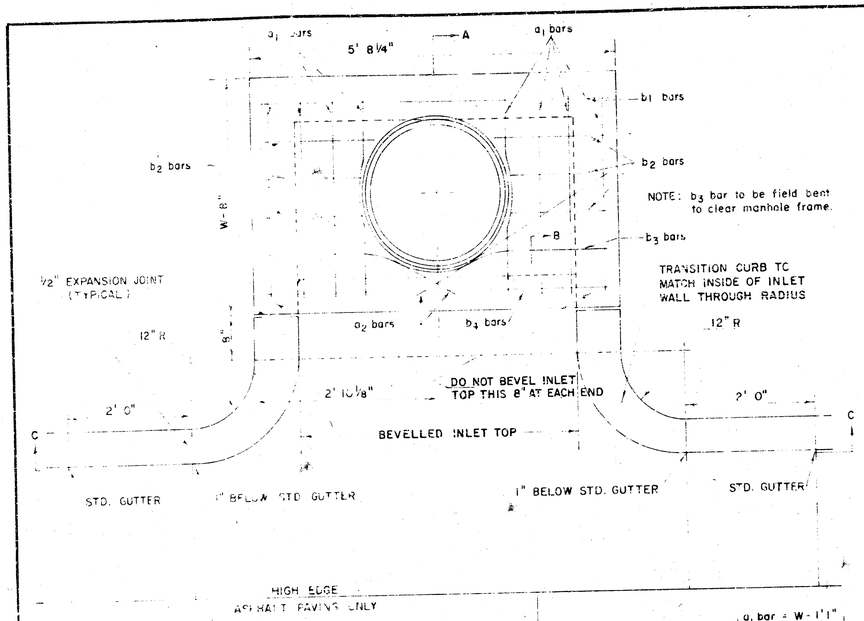




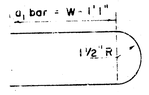
PLAN @ DRAINAGE LOCATION #4
SCALE: 1"=4'

NOTE: All rebars this sheet are #4 except where otherwise noted

DRAINAGE LOCATION NO. 2 & 4



PLAN (SCALE 1" = 1' 0")



BENDING DIAGRAM

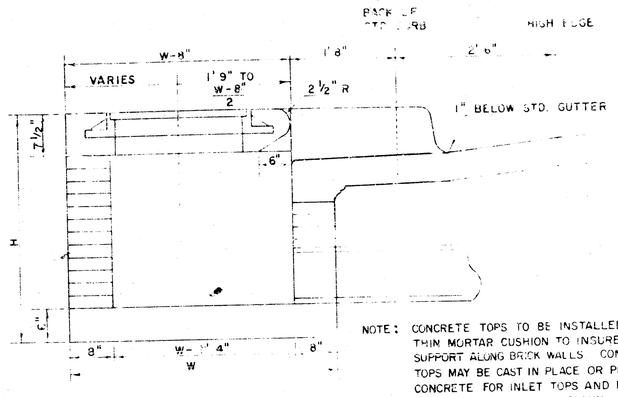
STEEL SCHEDULE

BAR	a_1	a_2*	b_1 W=4'2"	b_1 W=5'0"	b_1 W=6'0"	b_1 W=7'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. LBS.
NUMBER	8	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH W=4'2"	6' 5"	3' 4"	5' 5"	–	–	–	–	1' 5"	5' 6"	5' 5"	60#
LENGTH W=5'0"	8' 1"	4' 4"	–	5' 5"	–	–	–	1' 5"	5' 6"	5' 5"	77#
LENGTH W=6'0"	10' 1"	5' 4"	–	–	5' 5"	–	–	1' 5"	5' 6"	5' 5"	97#
LENGTH W=7'0"	11' 1"	6' 4"	–	–	–	5' 5"	–	1' 5"	5' 6"	5' 5"	111#
LENGTH W=8'0"	12' 1"	7' 4"	–	–	–	–	5' 5"	1' 5"	5' 6"	5' 5"	124#

* NOTE: a_2 BARS TO BE PLACED APPROX. 2' BELOW TOP OF INLET COVER

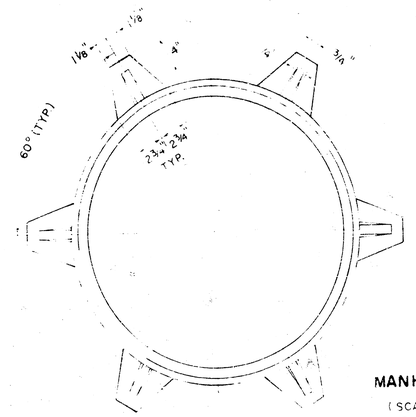
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5' 8 1/4"x7 1/2"	21" & SMALLER	0.46 *
5' 0"	44"x5' 8 1/4"x7 1/2"	24" & 30"	0.57 *
6' 0"	54"x5' 8 1/4"x7 1/2"	36" & 42"	0.71 *
7' 0"	64"x5' 8 1/4"x7 1/2"	48" & 54"	0.84 *
8' 0"	74"x5' 8 1/4"x7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME

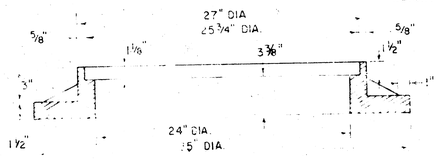


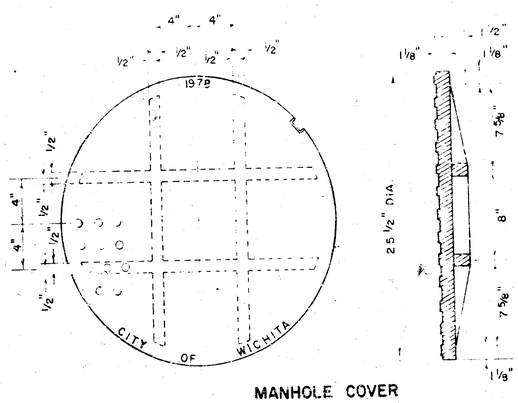
SECTION A-A
(SCALE 1" = 1' 0")

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 FOR INLET TOPS AND FLOORS SHALL BE *STANDARD* PAVING MIX.

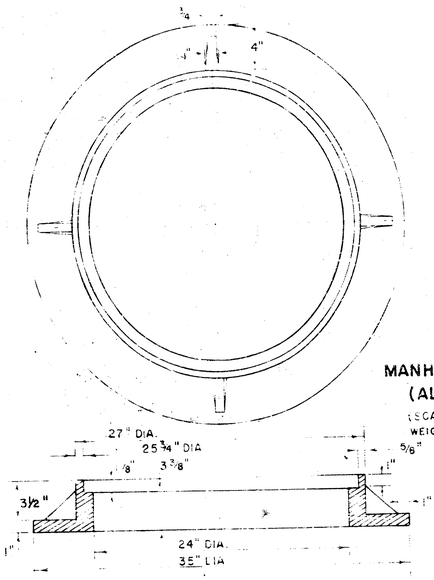


MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.

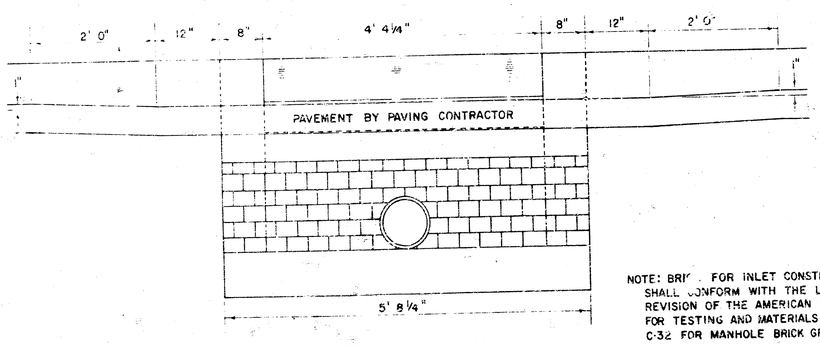




MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.

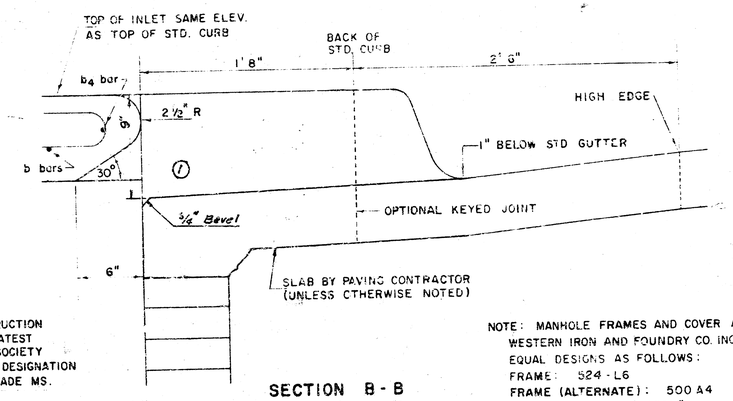


MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



SECTION C-C
(SCALE 1" = 1' 0")

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.



SECTION B-B
(SCALE 1" = 6")

NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:
FRAME: 524-L6
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

1 Rev. 5-18-81

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/ CITY ENGINEER

JUNE, 1981

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