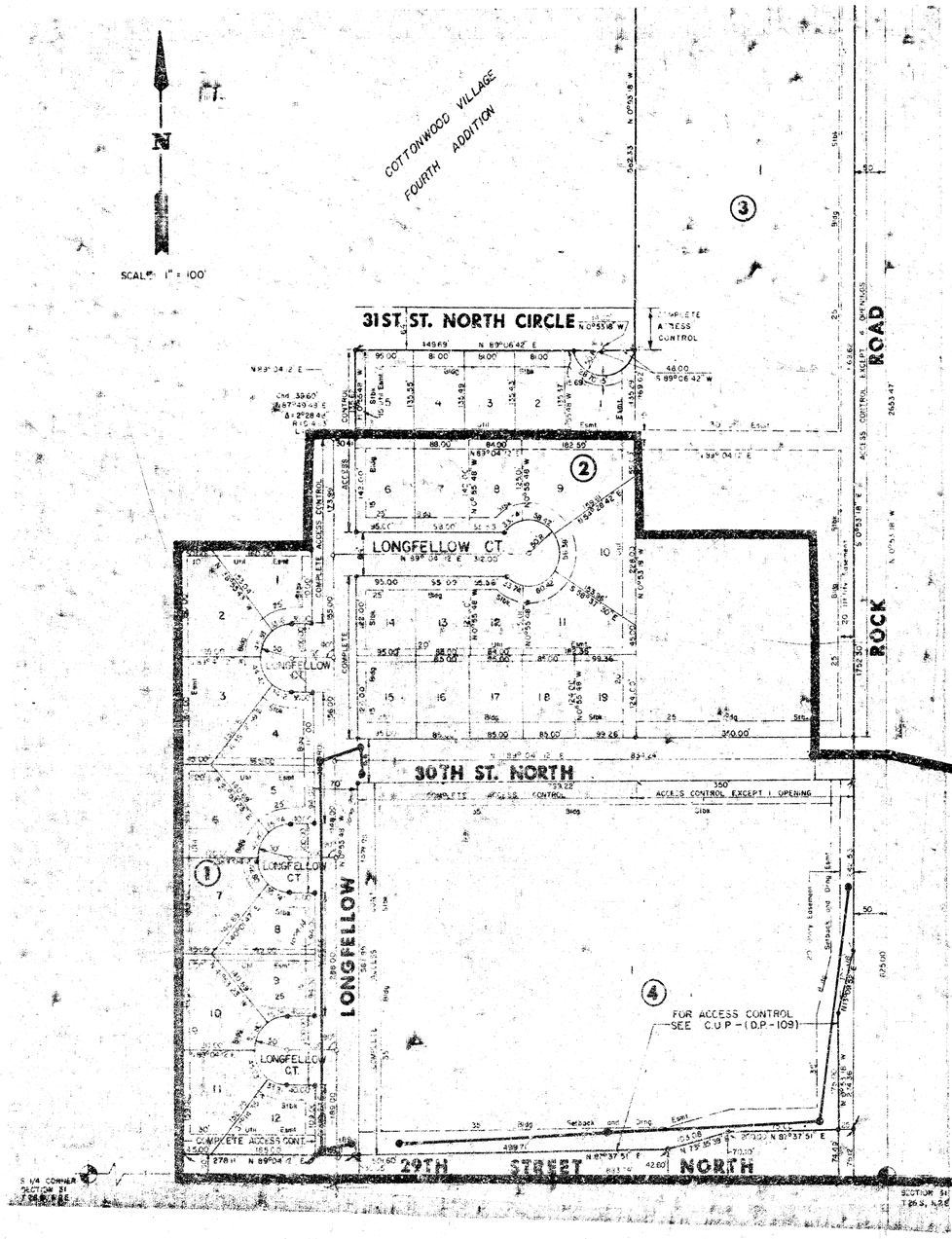
S.W.S. 242



THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

PROJECT DESCRIPTION	S.W.S. 242
PROJECT NUMBER	468-76-265-81196-030-000-001
BOOK NO. MG-32	APPROVED BY
DRAWN BY WSK	DATE 2-82
	REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING	1/8
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUGGEMAN	Sheet 1 of 8

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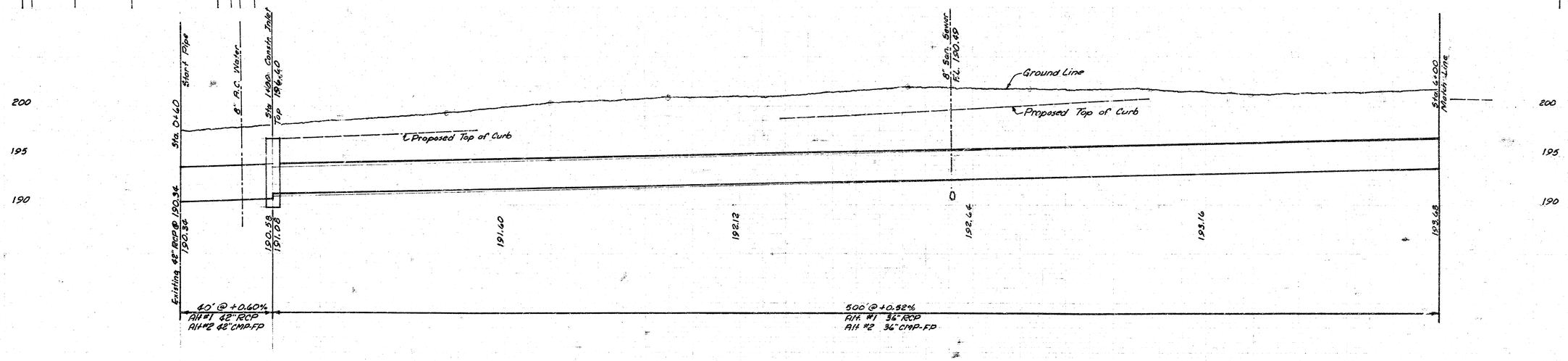
BM 213.302 Rock Rd. & 29th St, City Std., 44'S, 48'W, & Both.
BM 208.90 "X" E. Rim, MH, SW Cor. Lot 8, Blk 2, Cottonwood Sp. Add'n
BM 211.49 R.R. Spk, N-face P.P on SW Cor. 30th & Rock Rd.

Existing Curb Inlet to remain
Existing 48" RCP to remain
Install 4 L.F. of Conc. Encasement at Joint
Constr. 42" SWS
Sta. 1+00 Constr. Type 1A Curb Inlet, w=6'0"
Top 196.60, Street Sta. 10+96.56
Remove & Replace 64 SF± of Walk
Install 34' of 18" Pipe, DSFL 192.5, USFL 192.9
Constr. Type 1A Curb Inlet, w=6'2"
Top 196.70, Street Sta. 10+55.20
Install 6' of 15" Pipe, DSFL 192.3, USFL 192.6
Constr. Type 1A Curb Inlet, w=6'2"
Top 196.65, Street Sta. 10+43.20

48" SWS
2" Water
Curb Line
Walk
8" A.C. Water
8" San. Sewer
Constr. 36" SWS
LONGFELLOW CT.
LONGFELLOW
70' R/W
Projected 29th St.
29th ST. North
Curb Line
Walk

See Street Paving Plans for Inlet location.

SCALE: 1"=20'

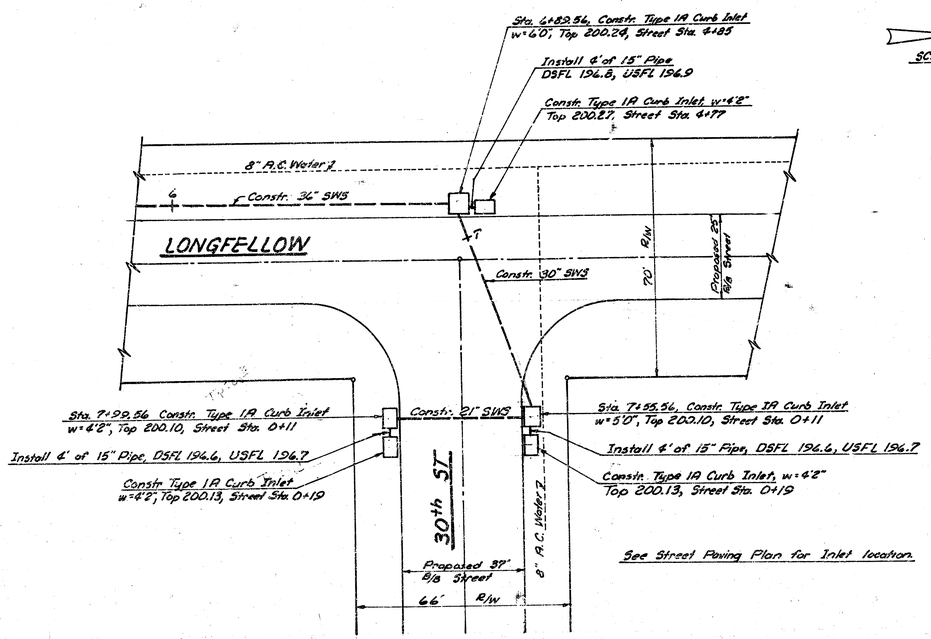


PROJECT DESCRIPTION
S.W.S. 242
PROJECT NUMBER
468-74-285-81136-000-000-001

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Sheet 2 of 8

BM See Sheet 2



SCALE: 20'

PROJECT DESCRIPTION
S.W.S. 242
PROJECT NUMBER
468-76-245-81196-000-000-001

3/8
Sheet 3 of 8

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BM 196.22 S.E. Cor. (Face of Inlet) on N-side of 29th St. & W-side Longfellow

Rip-Rap to remain

Remove End-Sections & Reshape Rip-Rap to drain to new 24" pipe @ no additional cost.

Install 10' of 24" Pipe with End-Section. USFL 193.7, DSFL 193.6

Sta. 0+00 Constr. Reinf. Conc. Manhole W₁ = 4'6", L₁ = 11'0"

SCALE: 1"=20'

Install 6' of 30" Pipe, DSFL 196.4, USFL 194.5 Plank end with 2" boards at no additional cost.

Sta. 3+35 Constr. Reinf. Conc. Manhole W₁ = 4'0", L₁ = 4'6"

LONGFELLOW

℄ R/W Line

R/W Line

35' Drainage Easement

Constr. 42" SWS

Walk

Curb Line

29th STREET

℄ Sec. Line

Double 36" RCP to remain

Base Line Paving Plan

℄ Curb Line

Sta. 0+00 Constr. Manhole

Fill over pipe

Existing Ground

Sta. 3+35 Constr. Manhole

Sta. 5+80 Match Line

193.09 194.09 195.09 196.13 197.15

191.42 192.09 195.44 193.48 197.93

335' @ +1.00%
A.H. #1 42" RCP
A.H. #2 42" CMP-FP

265' @ +1.00%
A.H. #1 42" RCP
A.H. #2 42" CMP-FP

PROJECT DESCRIPTION
S.W.S. 242

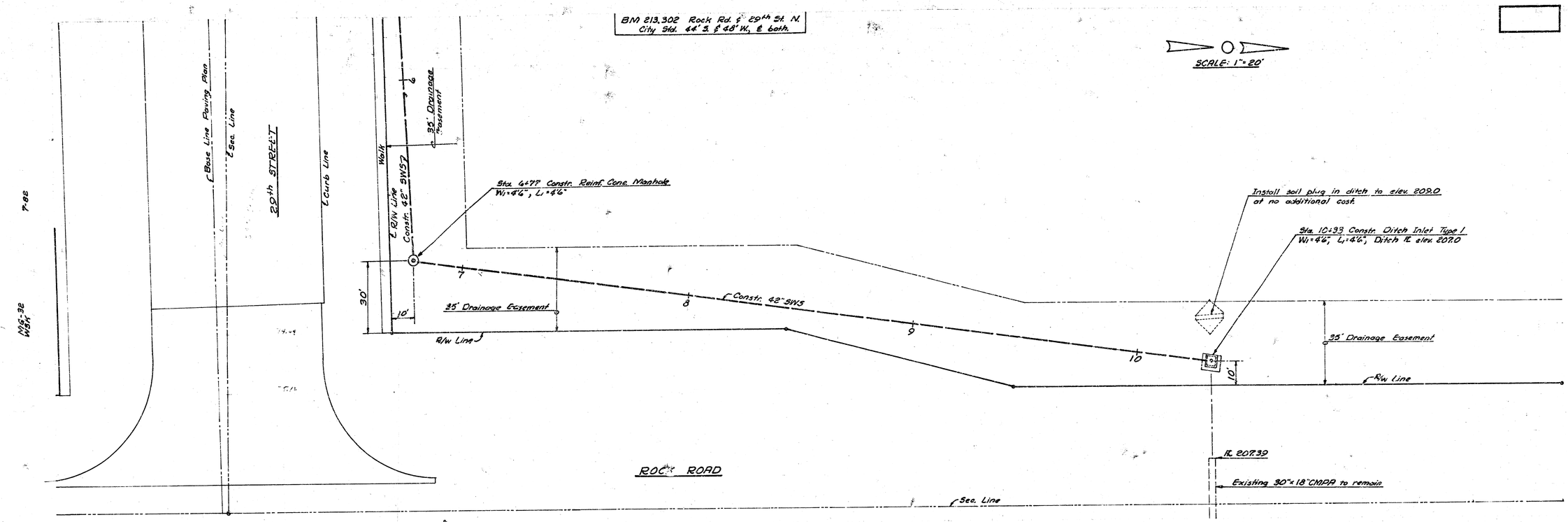
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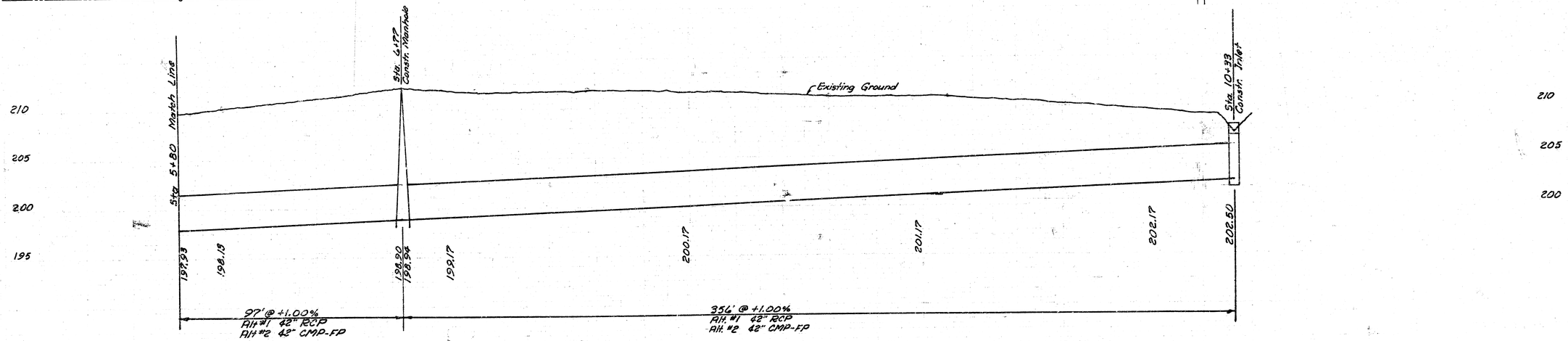
Sheet 4 of 8

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BM 213.302 Rock Rd. & 29th St. N.
City Std. 44°3' & 48°W, E both.

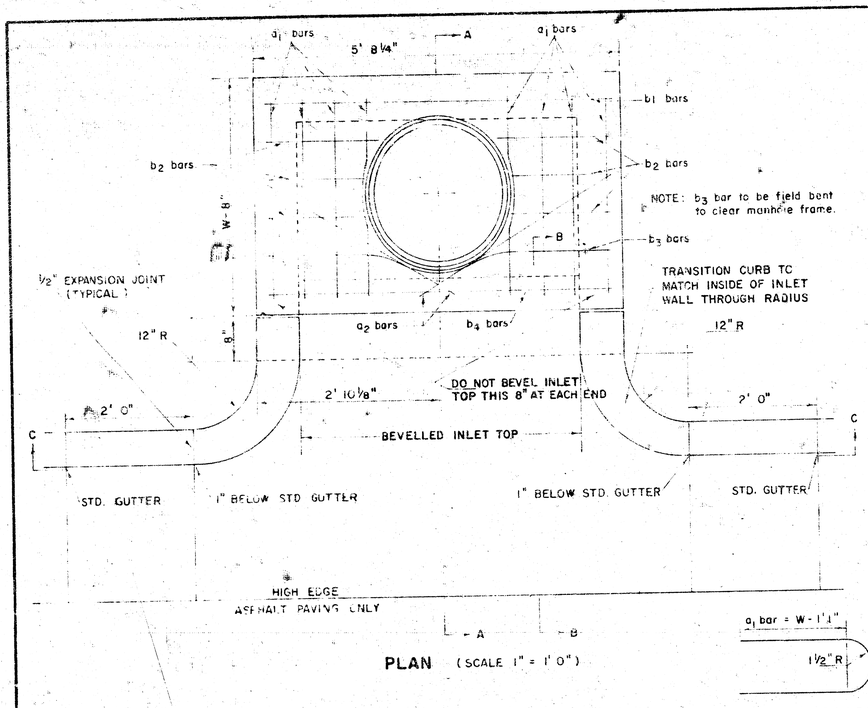
SCALE: 1"=20'





PROJECT DESCRIPTION
S.W.S. 242
PROJECT NUMBER
468-76-245-81196-000-000-001
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Sheet 5 of 8

FILMED FROM THE BEST



PLAN (SCALE 1" = 1'0")

BENDING DIAGRAM

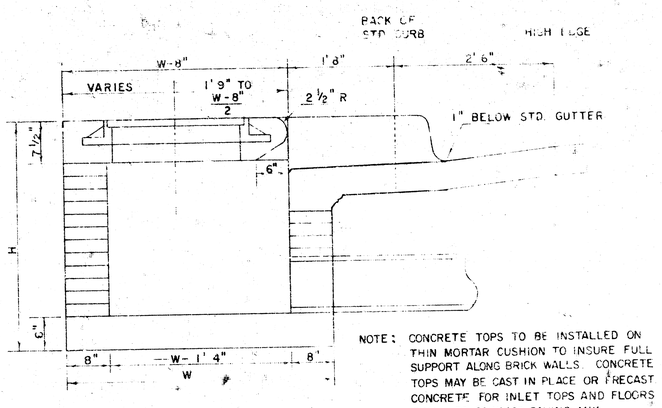
STEEL SCHEDULE

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	#5	#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

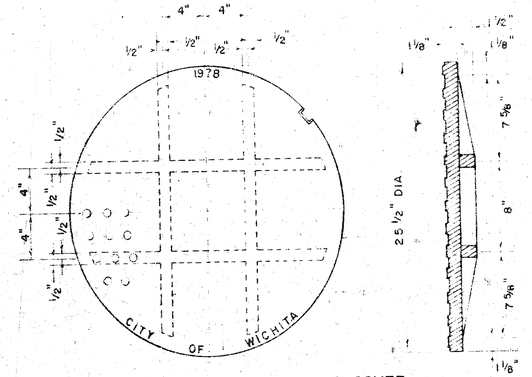
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU.YD. CONC.
4' 2"	36"x5'8¼"x7 1/2"	21" & SMALLER	0.46 *
5' 0"	44"x5'8¼"x7 1/2"	24" & 30"	0.57 *
6' 0"	54"x5'8¼"x7 1/2"	36" & 42"	0.71 *
7' 0"	64"x5'8¼"x7 1/2"	48" & 54"	0.84 *
8' 0"	74"x5'8¼"x7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME

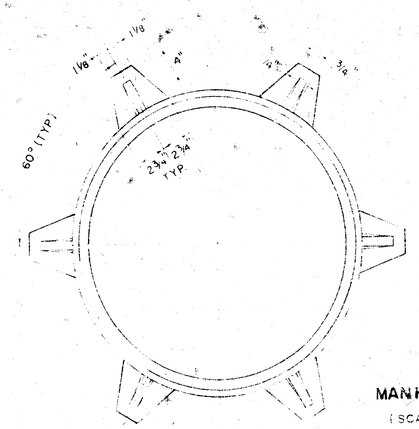


SECTION A-A
(SCALE 1" = 1'0")

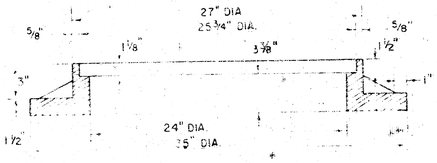
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST CONCRETE FOR INLET TOPS AND FLOORS SHALL BE *STANDARD* PAVING MIX.

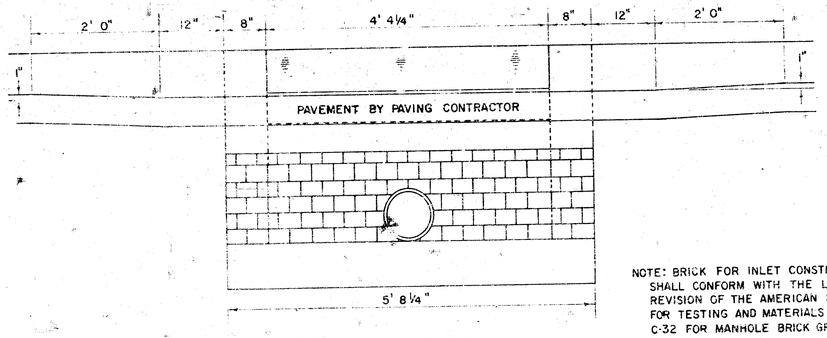


MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



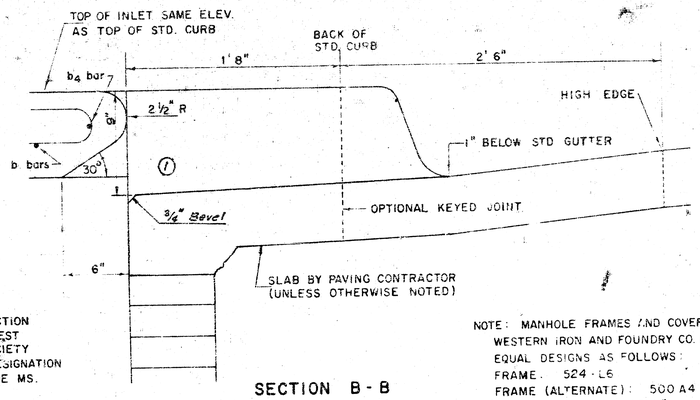
MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.





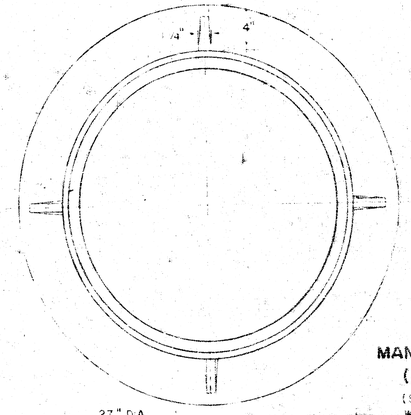
SECTION C-C
(SCALE 1" = 1'0")

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"



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

① Rev. 5-18-81

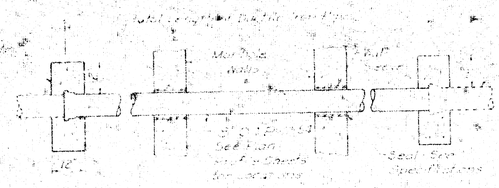
S.W.S. 242

DETAIL STANDARD TYPE IA CURB INLET

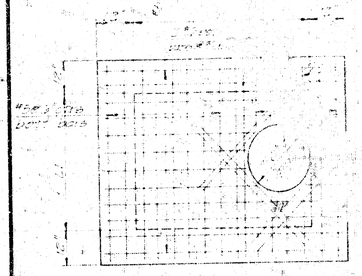
CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/ CITY ENGINEER
JUNE, 1981

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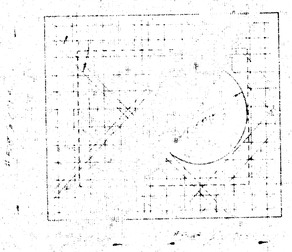
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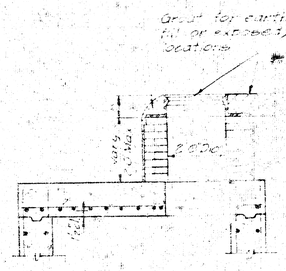
SANITARY SEWER PIPE THRU MANHOLE



TOP SLAB REINFORCING

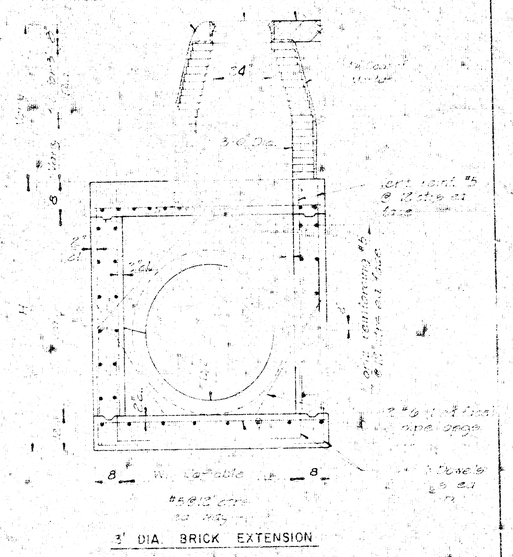


TOP SLAB REINFORCING



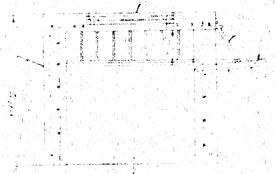
2' DIA. BR — Bottom on 3'

TENSION as shown at Extension

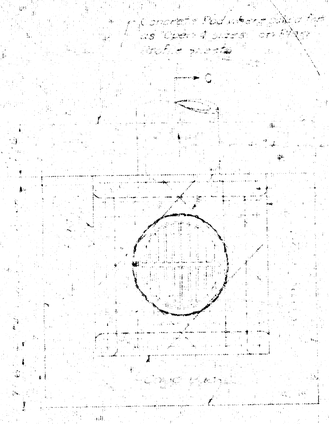


3' DIA. BRICK EXTENSION

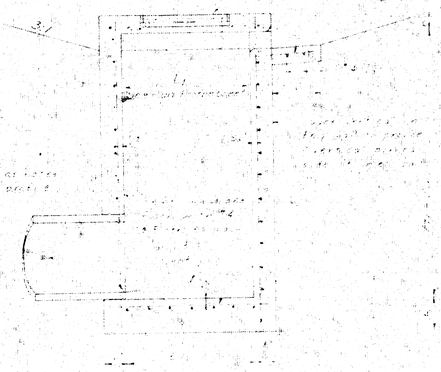
REINFORCED CONCRETE MANHOLE



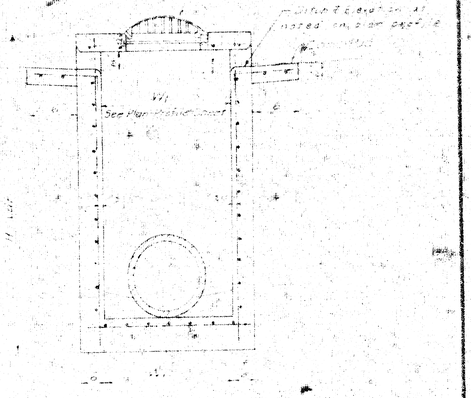
SECTION C-C for DITCH INLET TYPE I-A



PLAN



SECTION C-C INLET-I



SECTION D-D

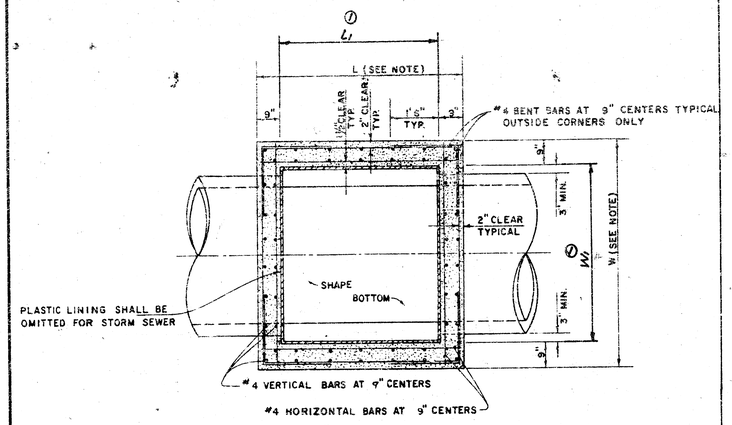
DITCH INLET TYPE I

DITCH INLET TYPE I & I-A AND

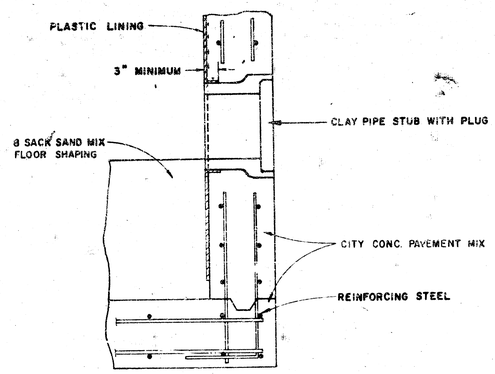
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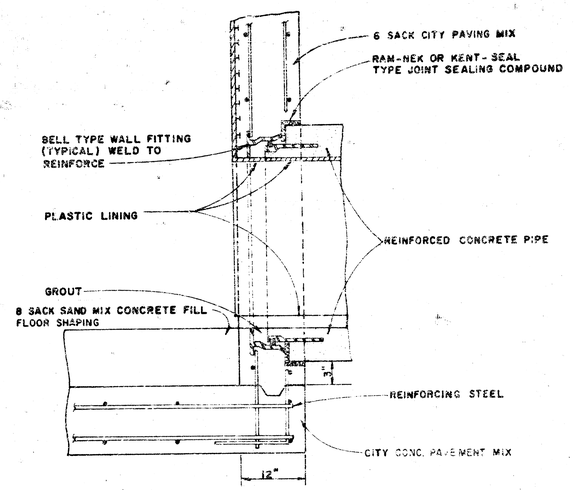
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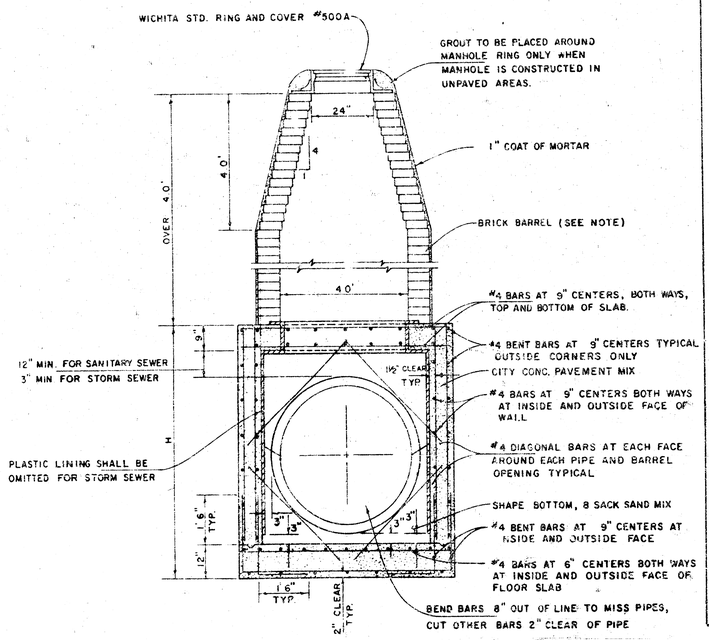
TOP VIEW



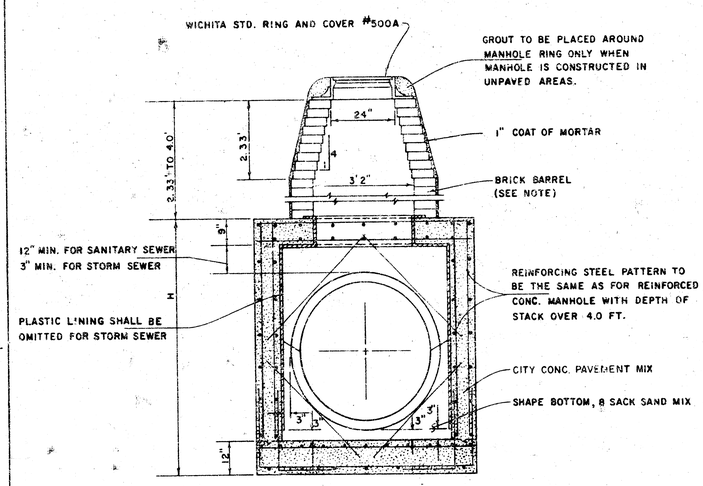
V. C. P. CONNECTION DETAIL
SANITARY SEWER ONLY



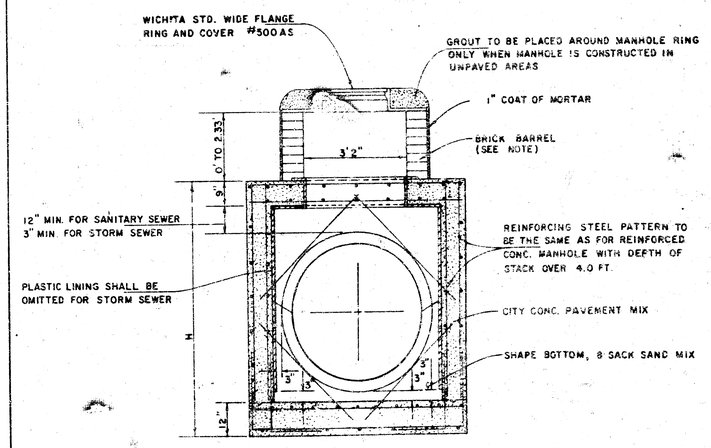
R. C. P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

NOTE :
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS.

SWS 242

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

APRIL 1978 (1) Rev. for SWS 242 8/8 REVISED APRIL 1980

Sheet 8 of 8

18 5 3 10

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