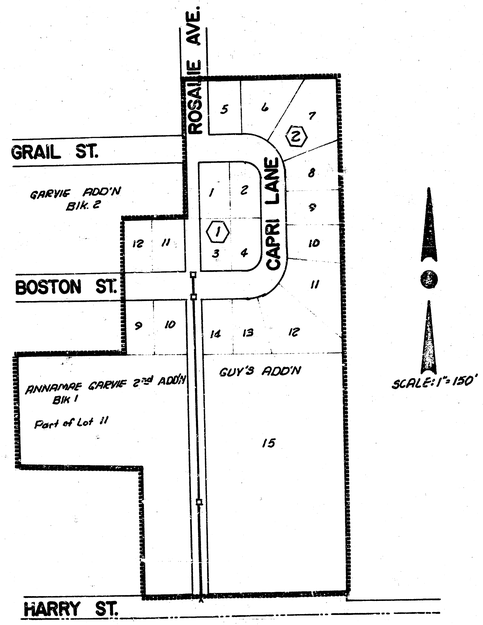
STORM WATER SEWER NO. 238



PROJECT DESCRIPTION

S.W.S. 238

PROJECT NUMBER

468-76-245-81177-000-000-001

BOOK NO. TP-2	APPROVED BY	DATE 6-83
DRAWN BY WSK		REVISED

CITY OF WICHITA
DEPARTMENT OF ENGINEERING

DIRECTOR OF ENG./CITY ENGINEER
R. W. BRUGGEMAN

1/4

Sheet 1 of 4

BM 140.13 Word "Dry" painted yellow on Fire Plug, N.L. Harry, near E Easement

Existing 8" CMP
Flowline 140.5

New 15" Pipe
Flowline 140.0

8" Masonry Pipe Plug.
To be paid for as Pipe Plug

SECTION A-A
Scale: 1"=1'0"

15" Pipe

Grate No 1 Set

18" Pipe

2'-4"

6"

2'-3½"

2'-3¾"

PLAN

Install grate size 2'6"×2'3", wt 103#, Bearing Bars 2'4" 1½"×⅜" @ 1⅞" ctr, Cross Bars 2'3"×⅜" round @ 4" ctrs. 4⅞" Typ. for three walls.

8" Masonry, Typ. all walls.

NOTE: Above grate to be Reliance Steel Product Co, Catalog No. H1-GD Grate or approved equal.

SECTION B-B

HANDHOLE DETAIL
Scale: ½"=1'0"

℄ HARRY

Lot 10, Blk 1, Annamae Garvie 2nd Add'n

Install End-Section

Lot 11, Blk 1
ANNAMAE GARVIE 2nd Add'n

Install 38' of 15" Pipe
USFL 160.00, DSFL 157.44

8" CMP from west

Top Parking

Top Parking

ROSALIE AVE.

℄ 8" Water Line

℄ Constr. 24" SWS

℄ Constr. 18" SWS

Remove & Replace 20' of Fence

8" San. Sewer

Sta. 0+33.5 Start Pipe

18" San. Sewer

Iron, 18.23' Rt. Sta. 0+50 (M)
16.23' Rt. Sta. 0+50 (P)

Sta. 2+57.5 Constr. Handhole, Top 159.45, See Detail this sheet.

SCALE: 1"=20'

Lot 15, Blk. 2, Guy's Add'n

Lot 14, Blk 2 Guy's Addn

Sta. 0+00 ℄ Harry Street

Sta. 0+33.5 Start Pipe

Sta. 0+50 R/W Line

℄ Water Line

Sta. 2+57.5 Constr. Handhole Top 159.45

Sta. 5+80 Match Line

Mound earth one ft. over pipe at no additional cost.

Existing Ground

Existing Ground

Install end-section

157.00

18" San. Sewer

159.18

157.80

157.40
157.44

157.78

159.58

159.38

8" S.S. Stub Lt of SWS-238

160.92

224' @ +0.18%
Alt. #1 24" RCP
Alt. #2 24" CMP-FP

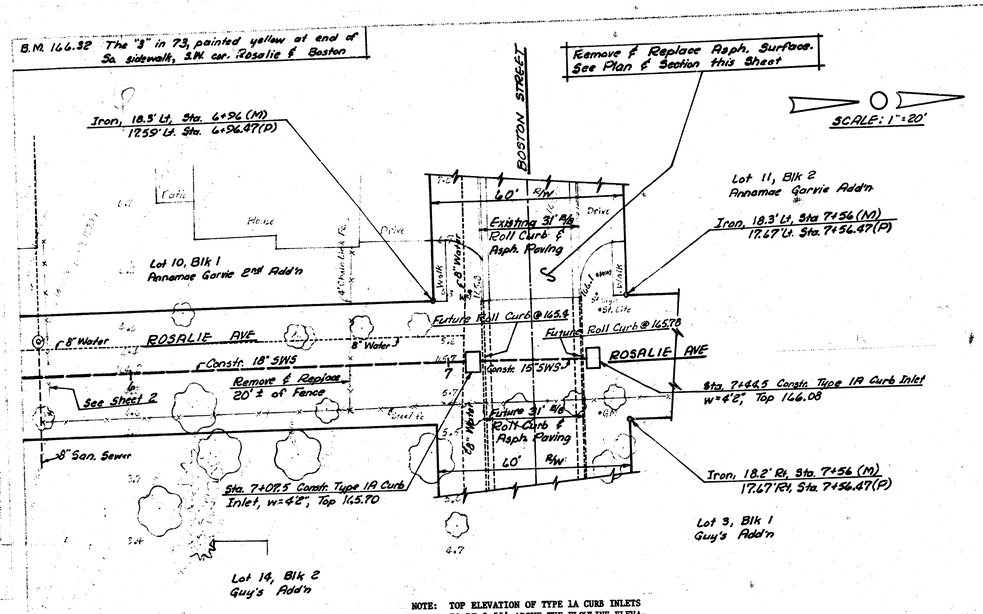
328.5' @ 0.80%
Alt. #1 18" RCP
Alt. #2 18" CMP (Coated)

160
155
145

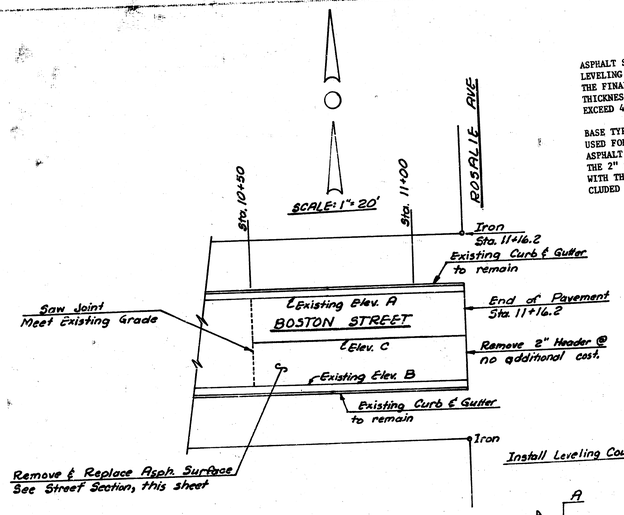
0 1 2 3 4 5

SWS #238

Sheet 3 of 4



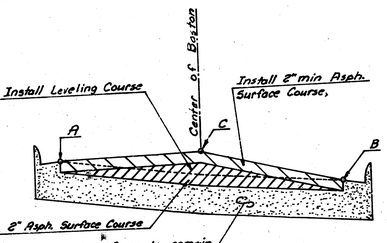
NOTE: TOP ELEVATION OF TYPE 1A CURB INLETS TO BE 0.55' ABOVE THE FLOWLINE ELEVATION OF STREET GUTTER. VERIFY THESE ELEVATIONS WITH STREET PAVING PLAN WHEN USING THE BENCH MARK FOR THE STREET PAVING PLAN.



ASPHALT SURFACING TO BE BID BY THE TON. LEVELING COURSES SHALL BE REQUIRED SO THAT THE FINAL LIFT WILL BE A UNIFORM 2" IN THICKNESS. NO LEVELING COURSE SHALL EXCEED 4" IN DEPTH.

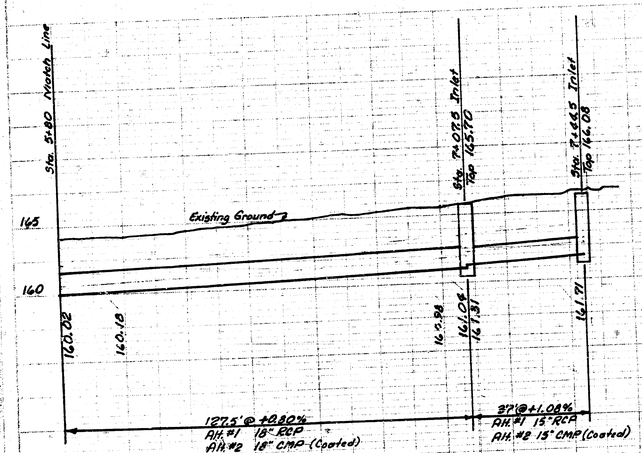
BASE TYPE ASPHALT (MIX TYPE BC-1) MAY BE USED FOR LEVELING COURSES. SURFACE TYPE ASPHALT (MIX TYPE SC-1) SHALL BE USED FOR THE 2" SURFACE LIFT. ALL COSTS ASSOCIATED WITH THE PLACING OF ASPHALT SHALL BE INCLUDED IN THE BID ITEM "TONS OF ASPHALT."

RECONSTRUCTION OF PAVEMENT SURFACE ON BOSTON STREET TO BE COORDINATED WITH CONTRACTOR FOR PAVING BOSTON EAST OF STATION 11+16.2.



NOTE: Elev. C = $\frac{\text{Elev. A} + \text{Elev. B}}{2} + 0.39$

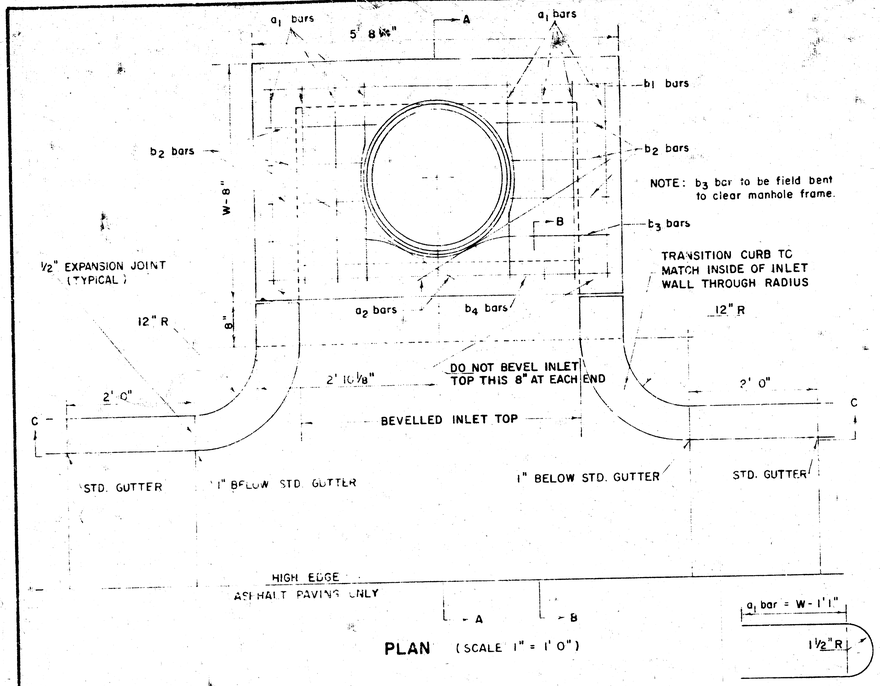
BOSTON STREET SECTION (Sta. 11+16.2)
Scale: Hor. 1"=6'
Ver. 1"=1'



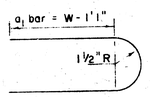
PROFILE

3/4

SWS 288 Sheet 3 of 4



PLAN (SCALE 1" = 1'0")



BENDING DIAGRAM

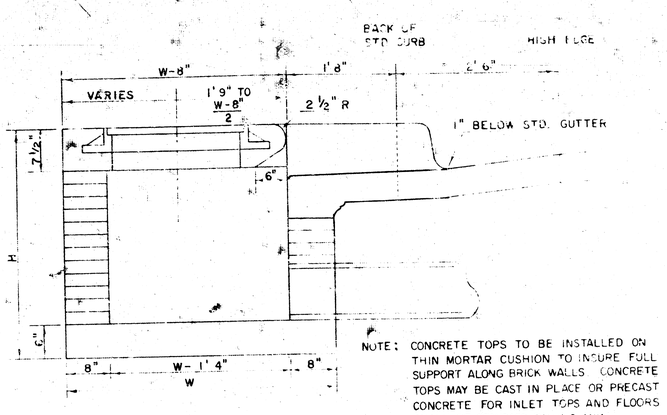
STEEL SCHEDULE

BAR	a_1	a_2*	b_1 W=4'2"	W=5'0"	W=6'0"	W=7'0"	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

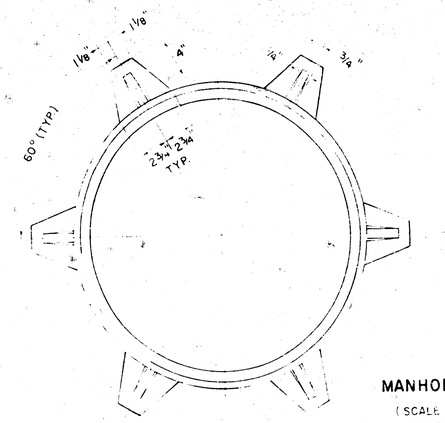
STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.	
4' 2"	3'6"x5'8 1/4"x7 1/2"	21" & SMALLER	0.46	*
5' 0"	4'4"x5'8 1/4"x7 1/2"	24" & 30"	0.57	*
6' 0"	5'4"x5'8 1/4"x7 1/2"	36" & 42"	0.71	*
7' 0"	6'4"x5'8 1/4"x7 1/2"	48" & 54"	0.84	*
8' 0"	7'4"x5'8 1/4"x7 1/2"	60" & 66"	0.97	*

* GROSS VOLUME

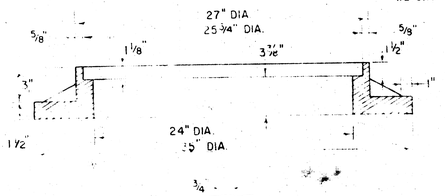


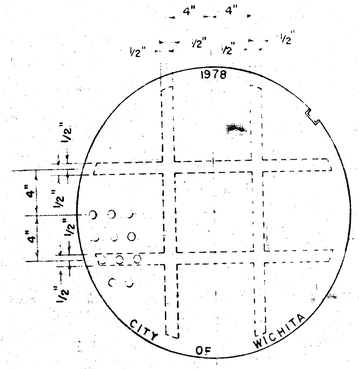
SECTION A-A
(SCALE 1" = 1'0")

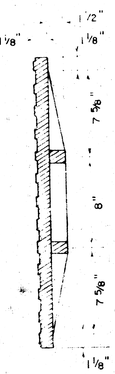
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST CONCRETE FOR INLET TOPS AND FLOORS SHALL BE *STANDARD* PAVING MIX.



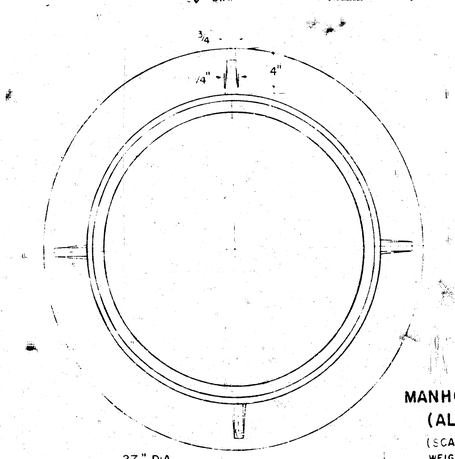
MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.



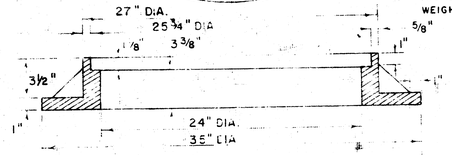


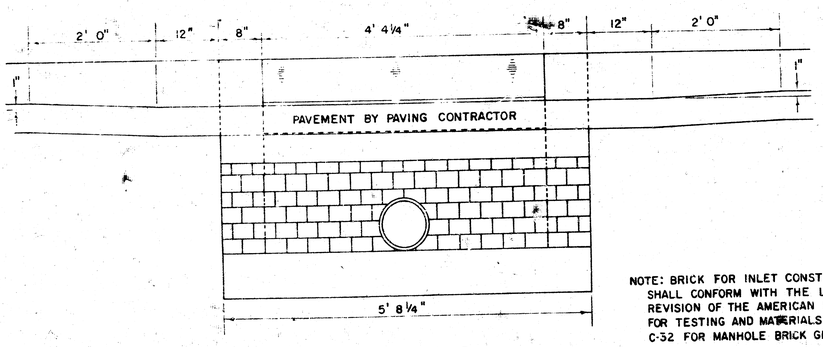


MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



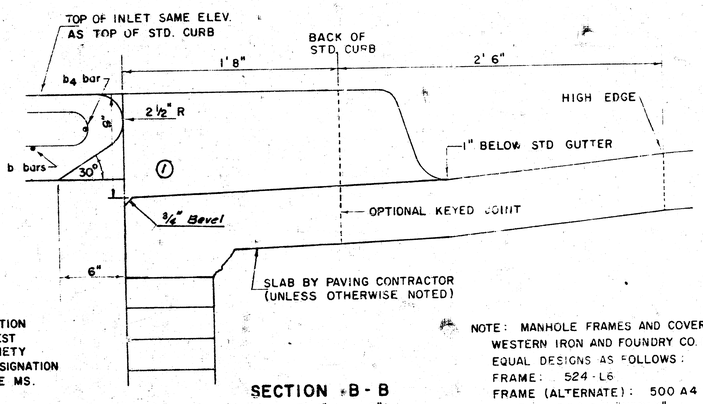
MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.





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 1A CURB INLET

CITY OF WICHITA, KANSAS

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

JUNE, 1981

SW3 #238