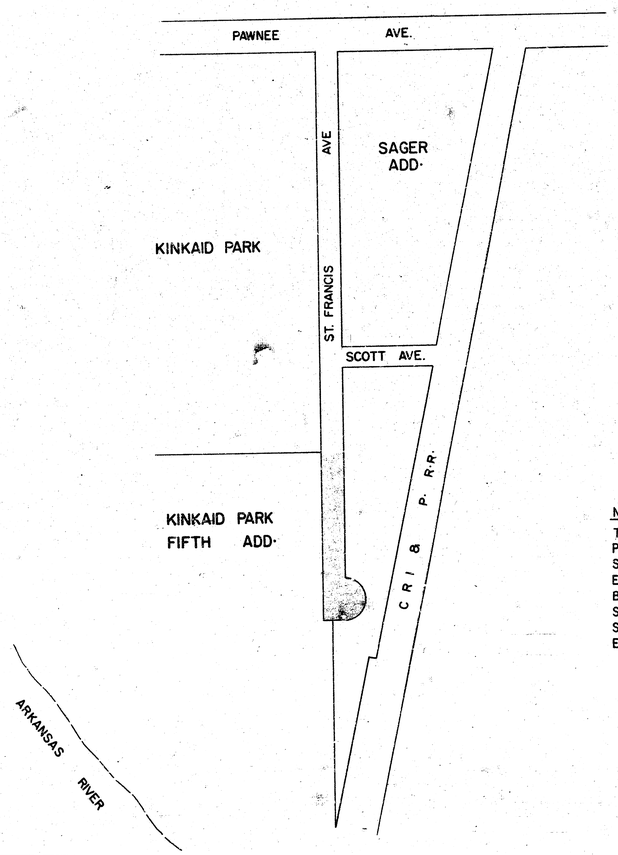
# ST. FRANCIS

FROM NORTH LINE KINKAID PARK
5TH ADDITION TO AND INCLUDING
CUL-DE-SAC

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NOTE

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.

## City of Wichita, Ks.

R·W·Bruggeman Director Of Engineering / City Engineer

Proj· NO· 472-76-245-80244-000-000-001


PREPARED BY:

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA
JULY 1981


DON C. MOEHRING
LICENSED
3463
KANSAS
PROFESSIONAL ENGINEER

1/6


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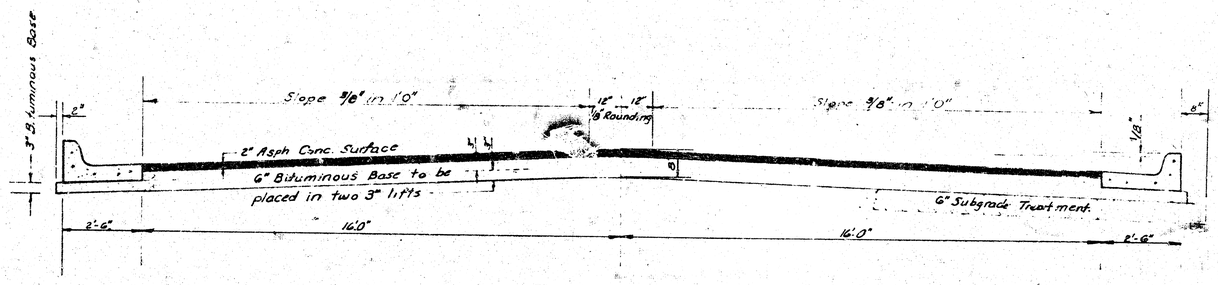
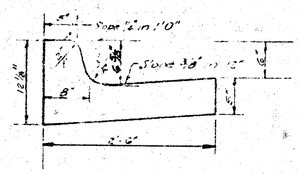
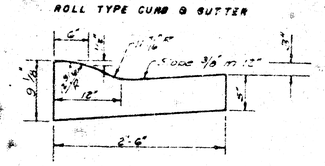



CONSHED-CURB & GUTTER




ROLL TYPE CURB & GUTTER




# TYPICAL SECTION

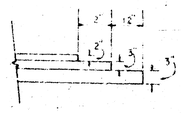
## 37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

The A.C. Surface between the curb and gutter shall be laid to a thickness of 8" at the curb and 6" at the crown.
The bituminous base under the curb and gutter shall be laid as a plus 3" Bituminous Base

## DETAIL OF TRANSVERSE CONSTRUCTION JOINTS




TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

CITY OF WICHITA KANSAS
DEPARTMENT OF ENGINEERING
R. W. BRUGGEMAN
DIRECTOR OF ENGINEERING/CITY ENGINEER
DATE _____ Proj No.
SHEET 2 OF 2/6

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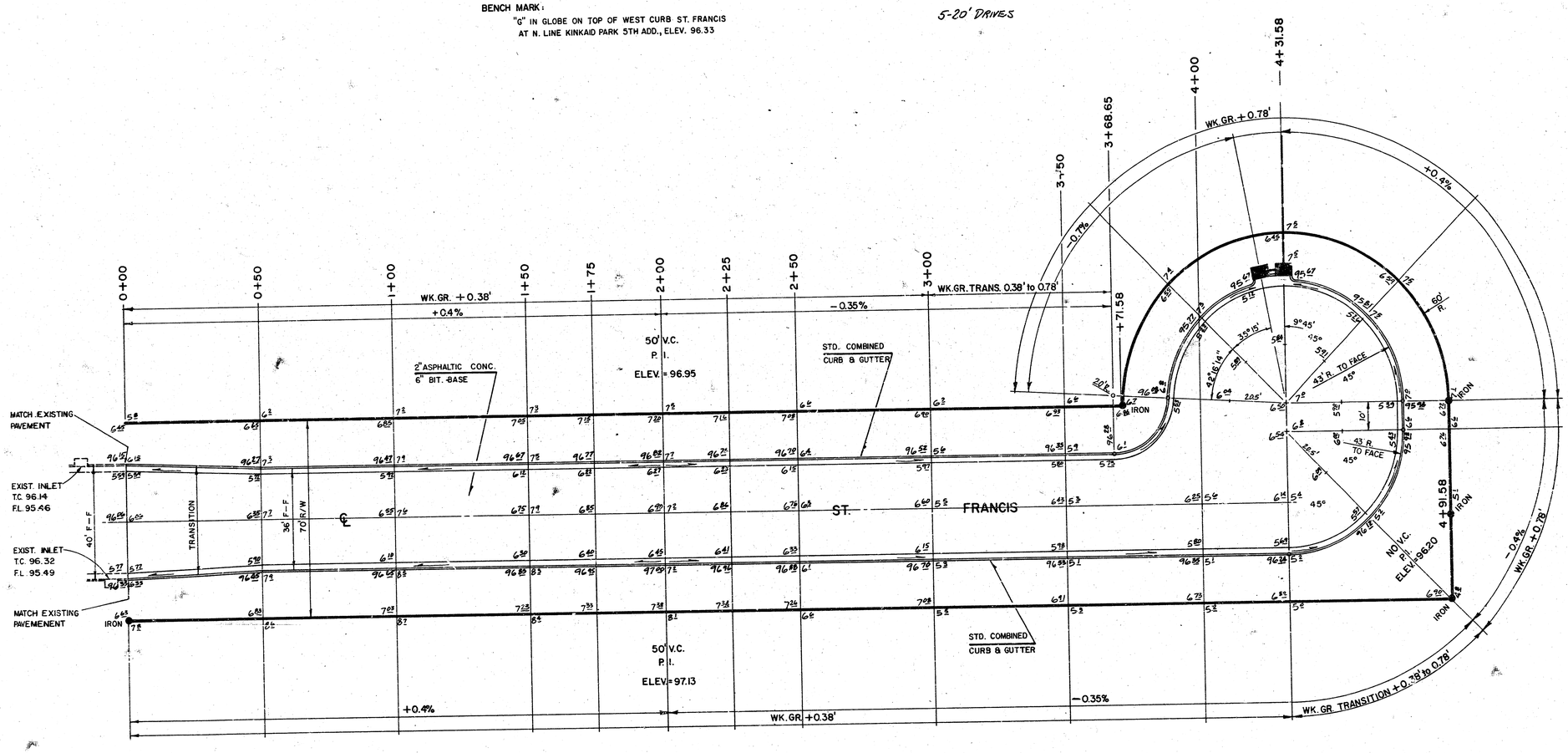
BENCH MARK:
"G" IN GLOBE ON TOP OF WEST CURB ST. FRANCIS
AT N. LINE KINKAID PARK 5TH ADD., ELEV. 96.33

5-20' DRIVES




Scale: 1" = 20'

SUB-GRADE
TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

ST. FRANCIS
N. LINE KINKAID PARK 5TH ADD.
TO AND INCLUDING CUL-DE-SAC

SHEET 3 0 3/6

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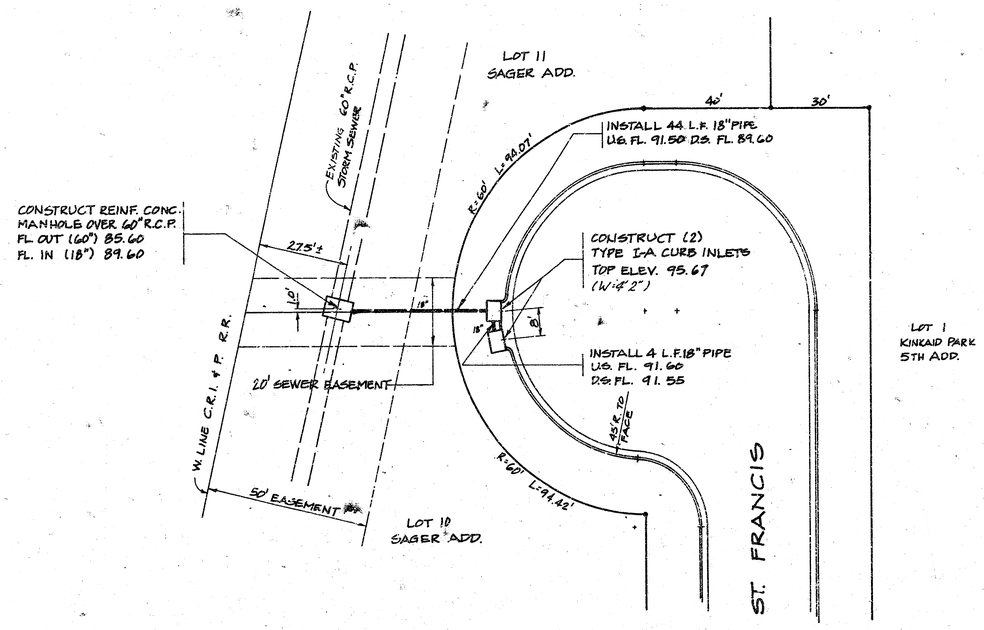
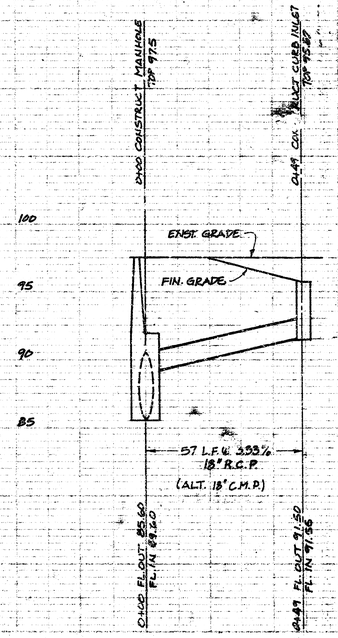
BENCH MARK: "G" IN GLOBE ON TOP OF WEST CURB ST. FRANCIS @ N. LINE KINKAID PARK 5TH ADD, ELEV. 96.33




N

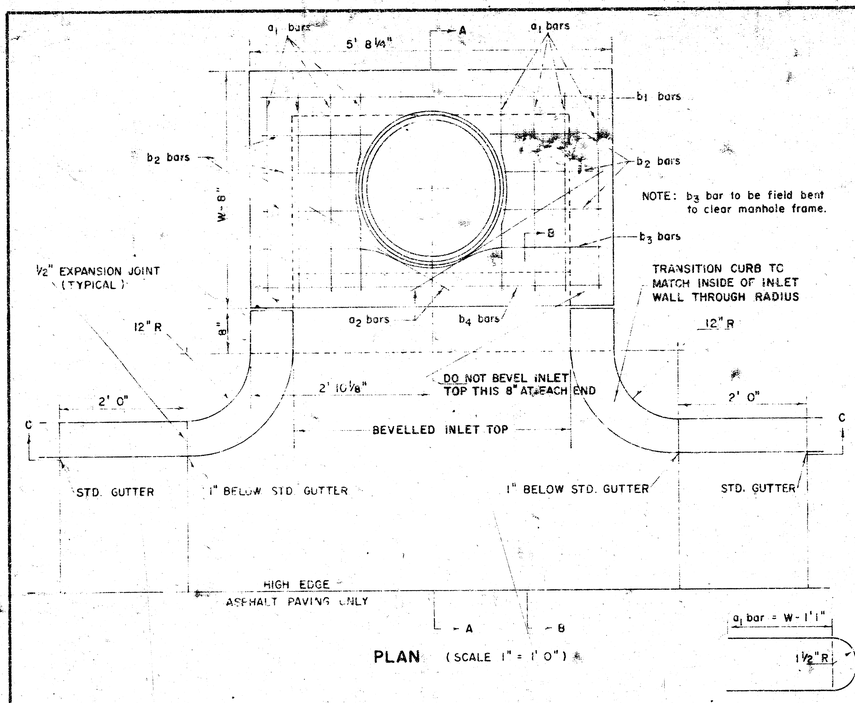
1"=20'




SCALE
1"=20' HORZ.
1"=5' VERT.

PLAN AND PROFILE
INCIDENTAL DRAINAGE
FOR
ST. FRANCIS PAVEMENT
CITY OF WICHITA PROJECT NO.
472-76-245-80244-000-000-001
JULY 1981

SHEET 5 4/6




PLAN (SCALE 1" = 1'0")




BENDING DIAGRAM

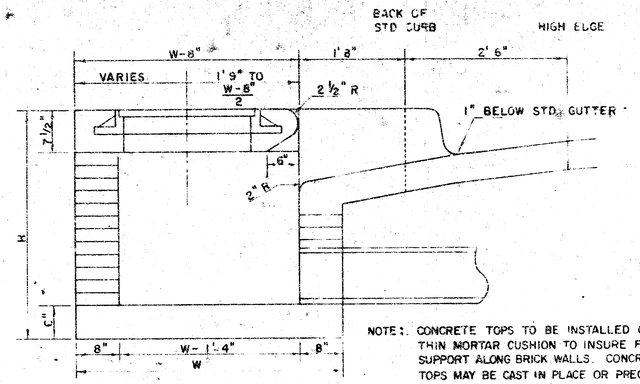
STEEL SCHEDULE

| 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

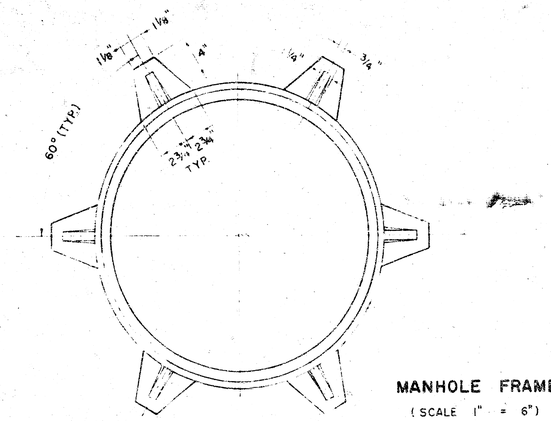
| STANDARD CURB INLET PRECAST TOPS | | | |
|---|---|---|---|
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
| 4' 2" | 3'6"x5'8 1/4"x7 1/2" | 21" & SMALLER | 0.46 * |
| 5' 0" | 4'4"x5'8 1/4"x7 1/2" | 24" & 30" | 0.57 * |
| 6' 0" | 5'4"x5'8 1/4"x7 1/2" | 36" & 42" | 0.71 * |
| 7' 0" | 6'4"x5'8 1/4"x7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

* GROSS VOLUME

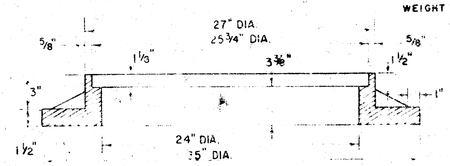


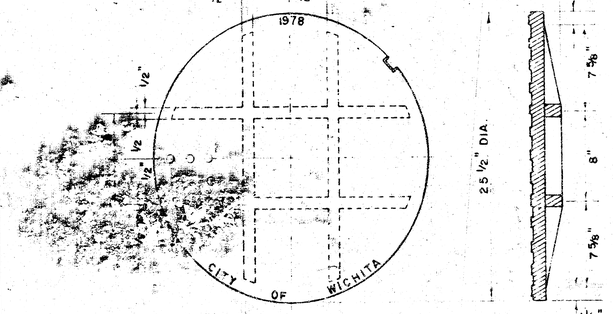

SECTION A-A
(SCALE 1" = 1'0")

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 6-SACK PAVING MIX

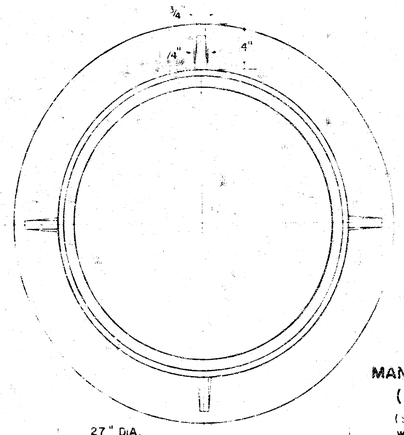



MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.

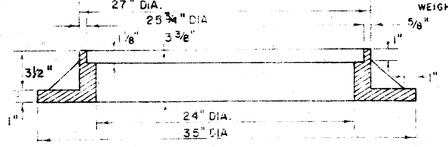


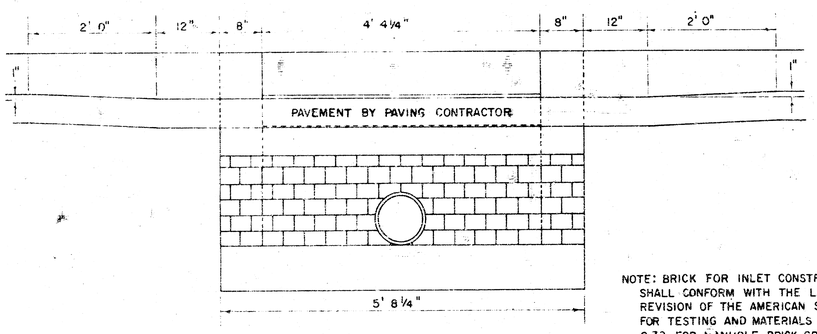




MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



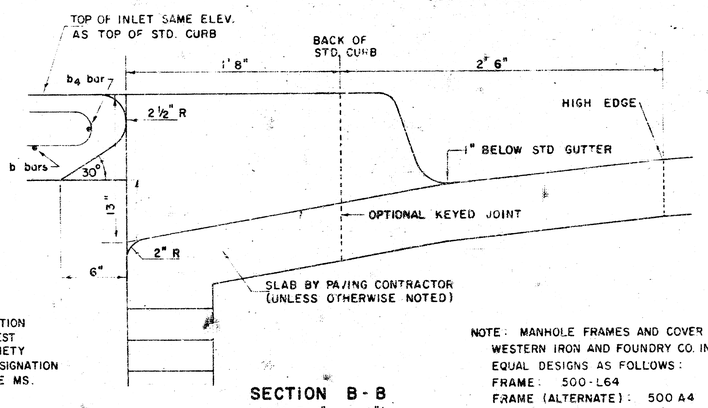

MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.




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: 500-L64
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

# DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

SHEET 6 OF 6

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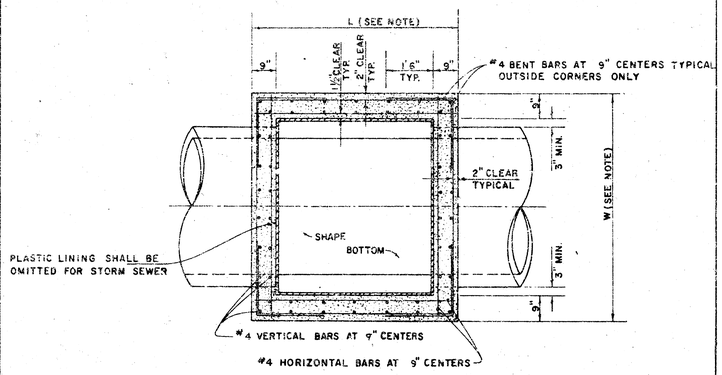
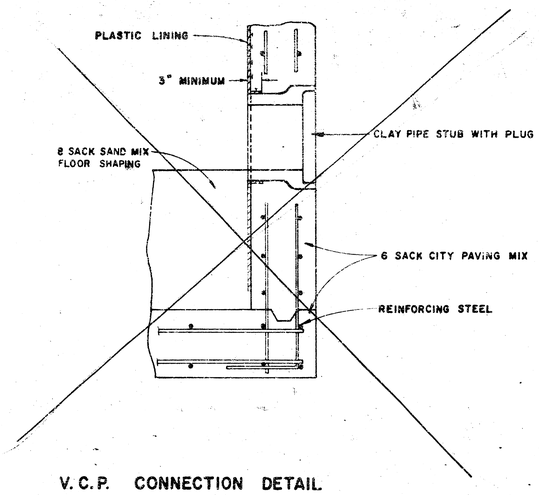
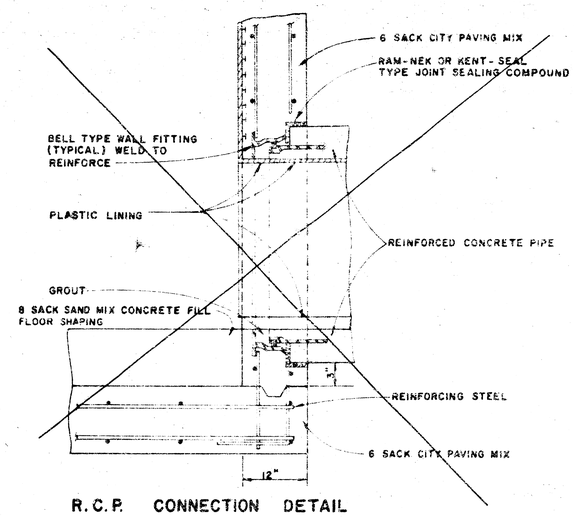


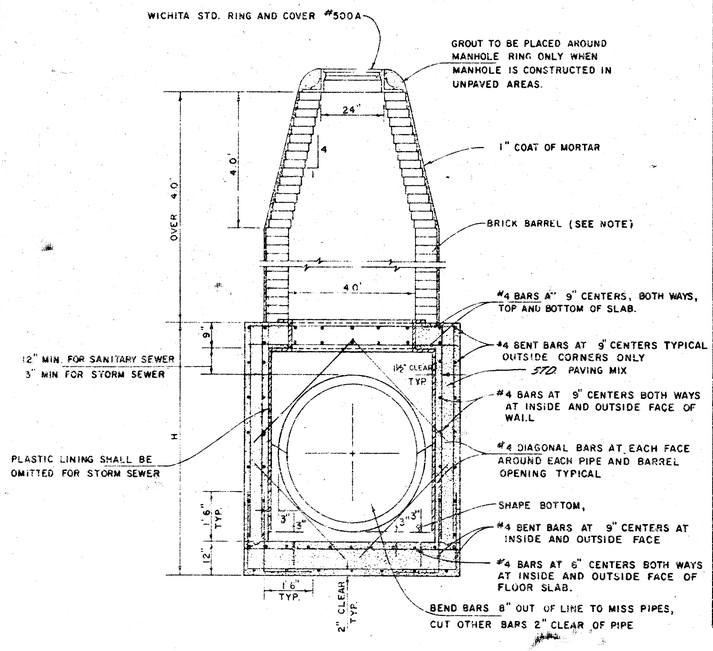

TOP VIEW



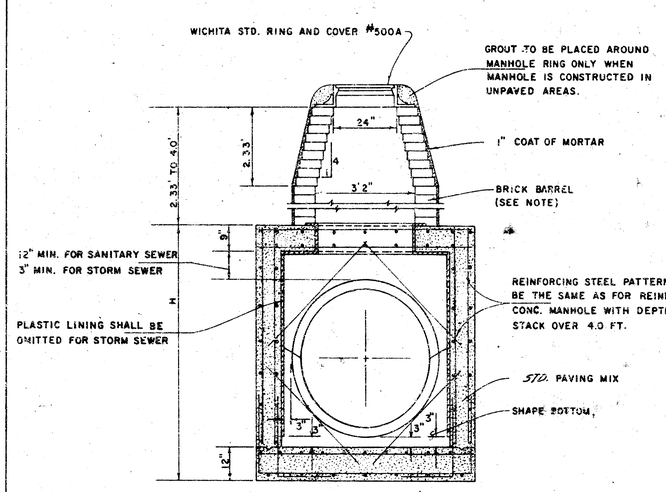

V. C. P. CONNECTION DETAIL
SANITARY SEWER ONLY



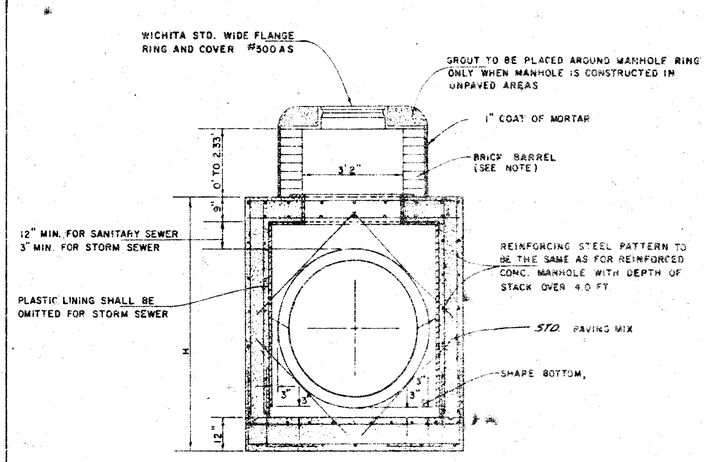

R. C. P. CONNECTION DETAIL
SANITARY SEWER ONLY




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.

# STANDARD DETAILS
# REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

APRIL 1978 REVISED APRIL 1980

SHEET 4/6

12 5 1 6

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