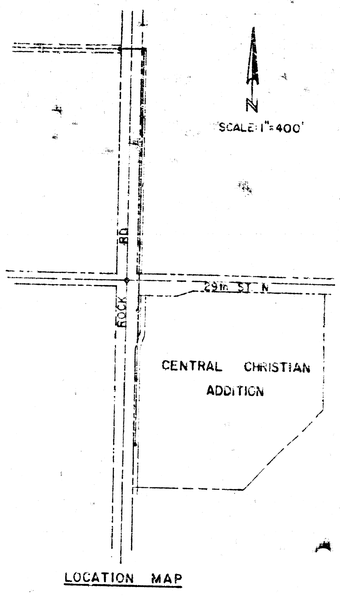


LOCATION MAP

SCALE: 1"=40' HORIZ.
1"=5' VERT.

Sta 1+20 - Const. Std. Type "A" or "C" MH

50' Temp. Const. Easement

Sta 4+50 Const Std Type "A" or "C" MH

Sta 7+80 - Const Std Type "A" or "C" MH

Sta 10+55 - Cons Std Type "A" or "C

20' Utility Easement

50'

10'

Brush

R/W

Remove & Replace 12 S.Y. Asphaltic Pavement Per City Specs

50°02'29"

50'

ROCK RD.

1110.00'

60'

50'

SW

T26

R/W

Sta 0+00 - Tie to Existing MH

20' Utility Easement

30' Utility Easement

15'

Existing 10" Sanitary Sewer

B.M. Spike in W. face Power pole 1180' N. 50' E. of intersection Rock Rd. & 29th St. N. Elev. 219.34

Legend

- Power Pole
- x Fence Post
- Brush
- + Street Sign
- Road Sign

Sta 0+00 Tie to Existing MH Top MH Elev = 209.6

Sta 1+20 Const Std Type "A" or "C" MH Top MH Elev = 212.8

Sta 4+50 Const Std Type "A" or "C" MH Top MH Elev = 213.9

Sta 7+80 Const Std Type "A" or "C" MH Top MH Elev = 211.8

Sta 10+55 - Const Std Type "A" or "C" MH Top MH Elev = 215.5

120 LF 8" VCP or ABS @ +0.40 %

330 LF 8" VCP or ABS @ +0.40

330 LF 8" VCP or ABS @ -0.40 %

275 LF 8" VCP or ABS @ +0.40 %

Existing Ground

215

210

205

200

195

APPROVED AS NOTED
by CITY ENGINEER OF WICHITA
Sanitary Sewers
Storm Sewers
Driveway Approaches

CENTRAL CHRISTIAN ADDITION

Note: Contractor will establish exact location of Rural Water District line before proceeding with work (Approx. 30" cover)

Sta 10+55 - Const Std Type "A" or "C" M.H.

Sta 13+85.00 - Const. Std. Type "A or "C" M.H

Sta 17+15.00 - Const Std. Type "A" or "C" M.H.

Sta 20+30.00 - Const Std Type "A" or "C" M.H. With 8" Stubout S.

SCALE: 1"=40' HORIZ. 1"=5' VERT.

20' Rural Water District Esmt.

20' Utility Easement

175.00'

103.07'

455.00'

R/W

30'

75'

50'

60'

ROCK RD.

29TH ST. N.

BM. Spike in W. face Power pole 1180' N. 50' E. of intersection Rock Rd. & 29th St. N. Elev 219.34

330 LF 8" VCP or ABS @ 0.40 %

330 LF 8" VCP or ABS @ 0.40 %

315 LF 8" VCP or ABS @ 0.90 %

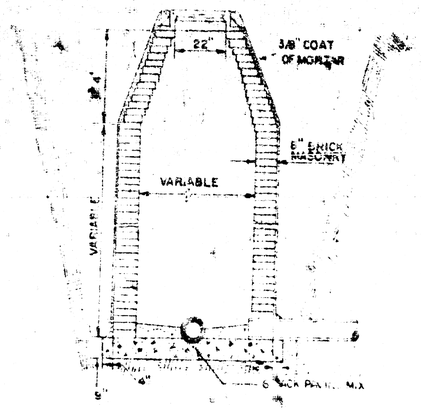
Existing Ground

220

215

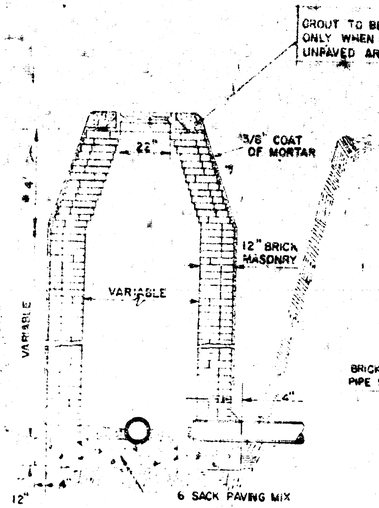
210

205

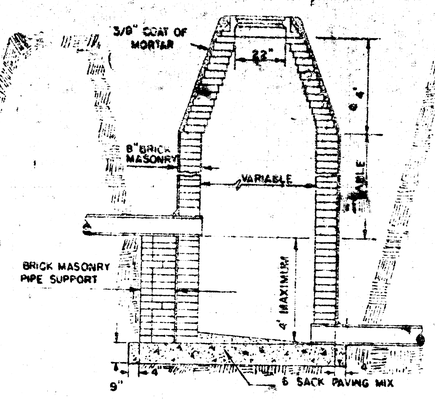


STANDARD MANHOLE
TYPE "A"

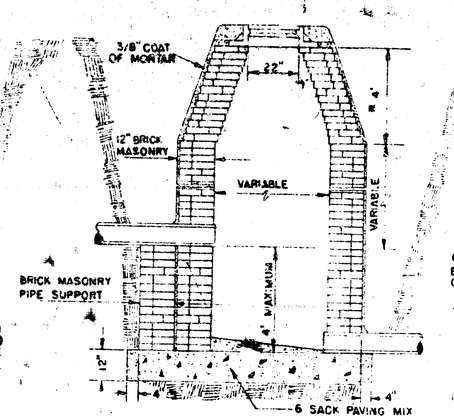
* DRAW = 6' ON 5' DIA. M.H.



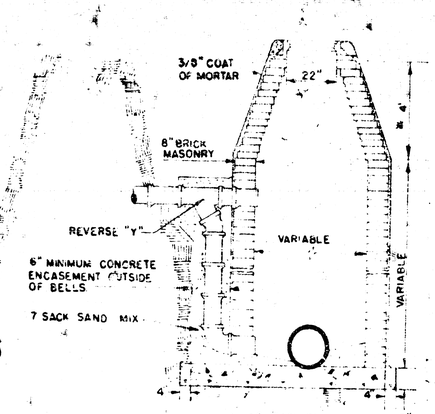
STANDARD MANHOLE
TYPE "B"



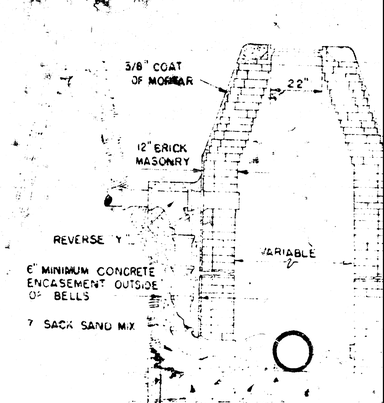
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

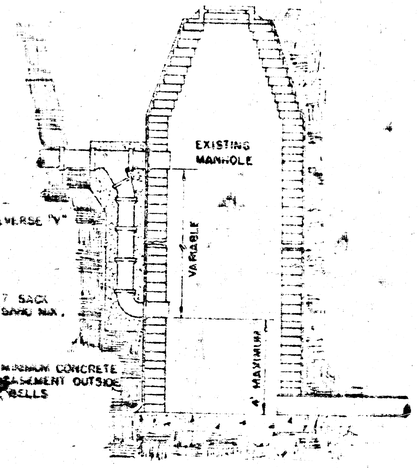


OUTSIDE DROP MANHOLE
TYPE "A"



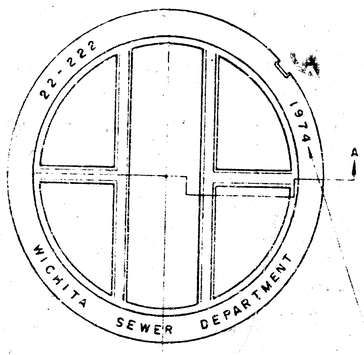
OUTSIDE DROP MANH
TYPE "B"

NOTE : REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



DETAIL OF DROP STACK

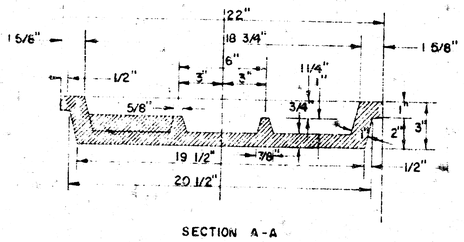
FOR EXISTING MANHOLES IN GROUND WATER



TOP VIEW

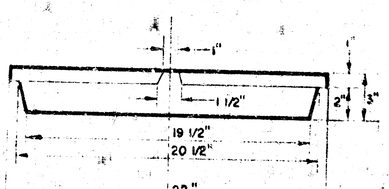
MANHOLE COVER

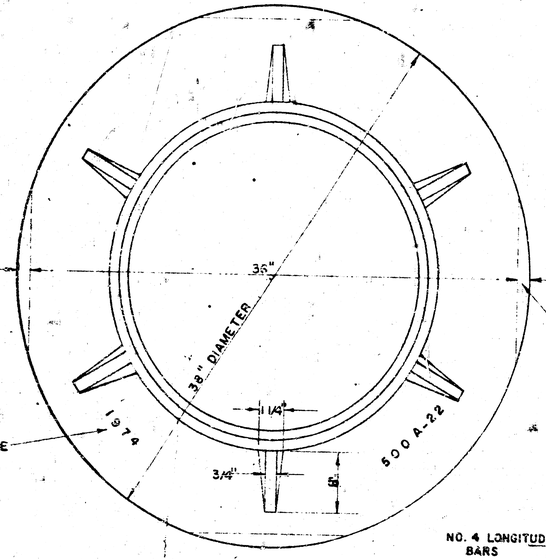
WEIGHT 110 LBS.



SECTION A-A

MANHOLE COVER



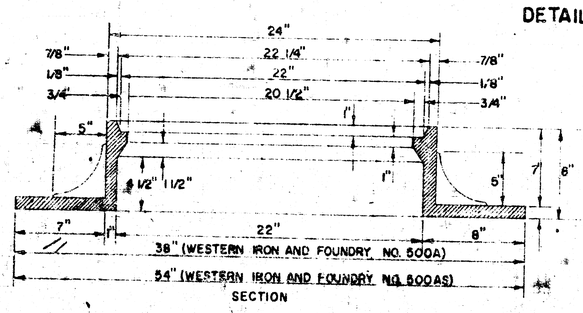


TOP VIEW

MANHOLE RING

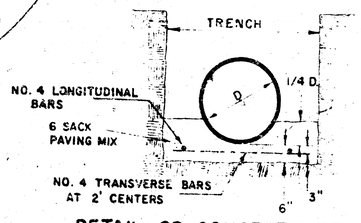
WEIGHT 325 LBS. RING NO. 500A

WEIGHT 300 LBS. RING NO. 500AS

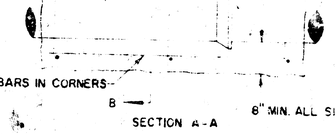


SECTION

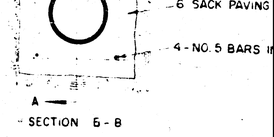
MANHOLE RING



DETAIL OF CONCRETE CRADLE



SECTION A-A



SECTION B-B

REINFORCED CONCRETE ENCASEMENT

HAND

ORDINARY BEDDING METHOD

STORM SEWER PIPE

GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE 'A' OR TYPE 'B' AND STANDARD DROP MANHOLES TYPE 'A' OR TYPE 'B' SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 6 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

REVISED 4-13-77

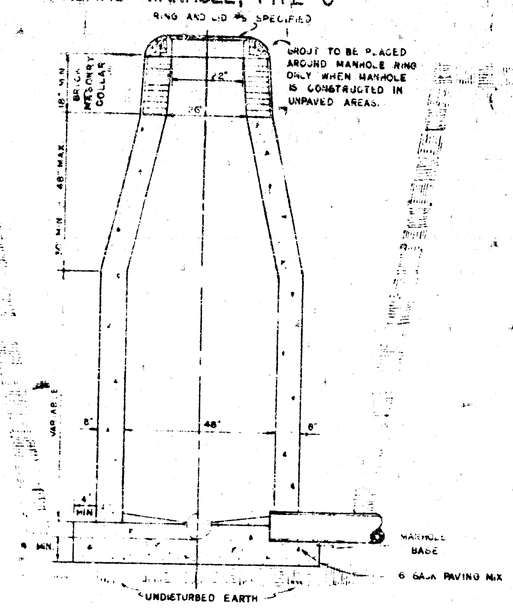
DETAILS OF

SEWER APPURTENA

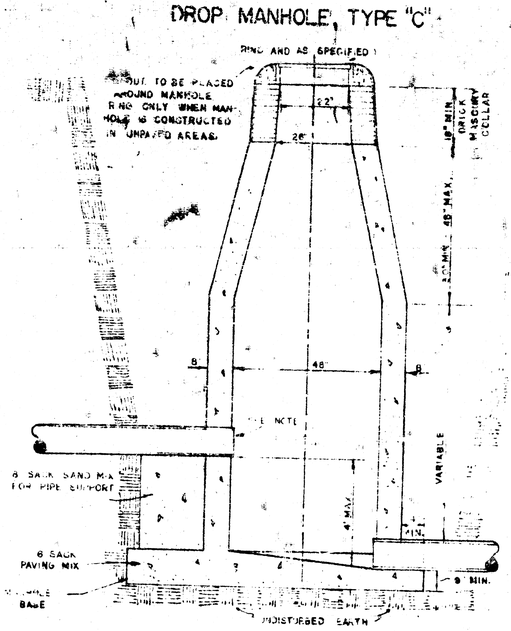
ADOPTED AS STANDARD DE

BY

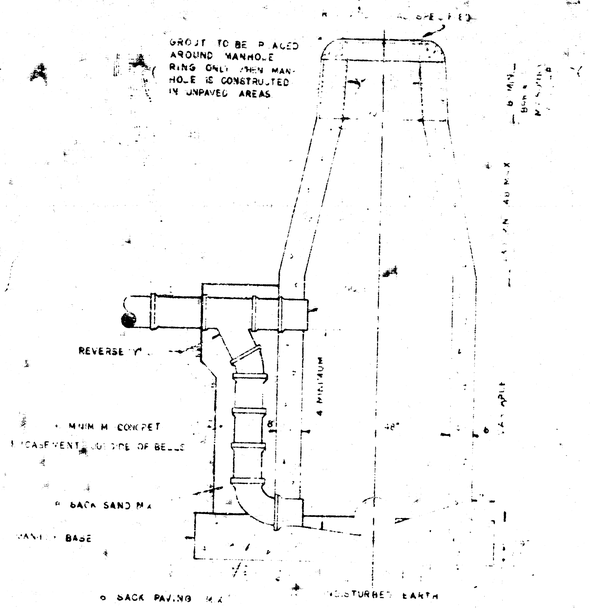
STANDARD MANHOLE, TYPE "C"



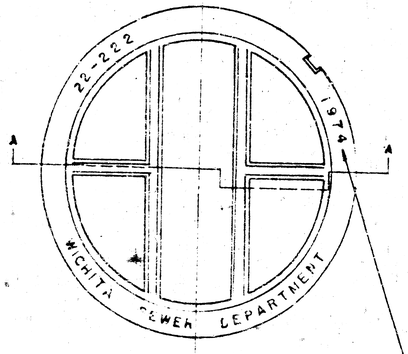
DROP MANHOLE, TYPE "C"



OUTSIDE DROP MANHOLE, TYPE "C"



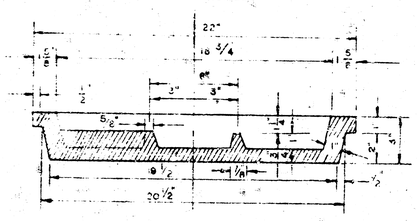
NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



FRONT VIEW

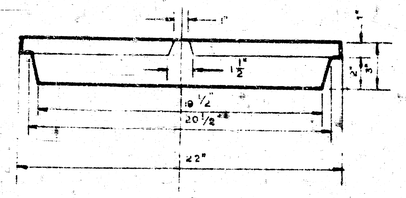
MANHOLE COVER

WEIGHT 310 LBS.



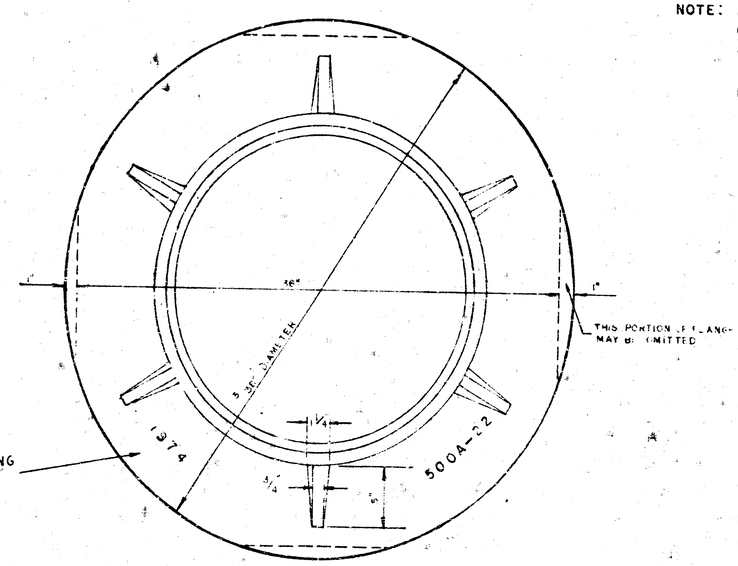
SECTION A-A

MANHOLE COVER



SIDE VIEW

YEAR CASTING IS MADE



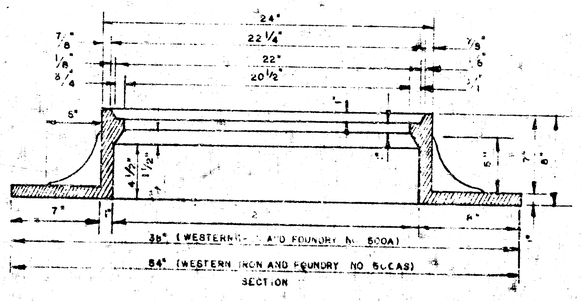
TOP VIEW

OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF FRAME TO BE MACHINED FIT

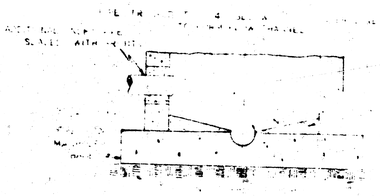
MANHOLE RING

WEIGHT 465 LBS. RING NO. 500A

WEIGHT 800 LBS. RING NO. 500AS



SECTION



SECTIONAL ELEVATION—INVERT

NOTE OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.

GENERAL NOTES

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.

OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4FT UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5FT. DIAMETER.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.

PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

REVISED

DETAILS OF
SEWER APPURTENA
ADOPTED AS STANDARD DE
BY
ENGINEERING DIVISION