B. M. 165.37 R.R. spk. top east Post - N. banister wood bridge, 1200 ft. E. of Oliver on 29th St. North.

B. M. 172.38 City Std. 29th - Edgemoor 5.5' east & 37.0' N. of Iron.

NOTE: All manhole studs & clay pipe outlets are to be incidental to the project.

NOTE: Adjust exist. Manhole.

NOTE: Exist. S. W. Bell Tele. Underground Conduit.

NOTE: Adjust exist. manhole

NOTE: Adjust exist. Manhole

Plan Scale 1" = 40'
Profile Scale 1" = 40' Horz.
1" = 5' Vert.

ST. 30' 40' R/W

Iron

OLIVER

29TH ST.

Nail in washer

Exist. 30" V.C.P. sanitary sewer 8" Reinf. Conc. encased.

Sta. 0100.0 Exist. M.H.

0.20 % fall

1167.4' ±

Exist. 21" S. S.

Pipe line marker

20' 126.42' 127' to ℄ of 20' ecs mt.

1+22.3 Sta. ~~11+21.5~~ Const. Std. M.H Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S.

Exist. wood bridge

Dead trees with stake on N. side of ditch

Buried cable marker

Pipe line marker

Tele Pedestal

Exist. S. S. M.H. N. Rim 160.11 W. M. marker

W. M.

Pipe line marker

Exist. S. S. M.H. N. Rim 160.13 W. M. marker

W. M.

Exist. Gas valve

Exist. Gas line 2" main 60 psi

Dedication of Roadway

Exist. Underground Telephone & Electric Conduit

Iron

Nail in washer

High bank

Exist. A. C. Pavement

ditch

Flo

Nail in washer

Iron

Marker

Sta. 9+00.0 Const. Std. M. H. Type "B" (5' dia.) Install 30" Stub NE

3+28.3 Sta. ~~3+29.0~~ Const. Std. M.H Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S. Alternate, Install Structural Tee M.H Install 10" Clay Pipe inlet N. Install 8" Clay Pipe inlet S.

"CAUTION" Existing K A N E B 8" Pipe line 11.0' ± S. of ℄ 29th St. No. 30" to 36" deep. Call Mr. Gatman 262-1408

100 ft. temporary Const. Easement.

6+91.2 Sta. ~~6+91.6~~ Const. Std. M.H. Type "B" (5' Dia.) Install 10" Stub N. & 8 Stub S. Alternate Install Structural Tee M.H. Install 10" Clay pipe inlet N. Install 8" Clay pipe inlet S.

Ties to Iron ⅛ cor.
171.29' W. SW to 60" Spk. Top E-end wing wood bridge.
171.29' W. NW to 60" Spk. top E-end wing wood bridge.
58.01' SW to nail in washer W-face 10" tree.
54.68' NW to nail in washer E-face 10" tree.
26.65' N. to nail in pop cap E-face P.P.

NW ¼ Sec 1, Twp. 27 S, R. 1 E.
E. B. Shawver
Petroleum Corp.
KE -460-12

NOTE: Set top of all new manholes at the same elev. as crown of exist A. C. pavement.

NOTE: Sta. 9+00.0 to Sta. 41+30.4 Elevations shown are for 21" clay pipe. If 30" RCP is used, lower flo elevation 0.75

Sta. 0100.0 Exist. M. H.

Sta. 1+21.5 Const. Std. M.H Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S. See Sheet No. 5 for M. H. details

Sta. 3+29.0 Const. Std. M.H. Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S. Alternate Install Structural Tee M.H. Install 10" Clay pipe inlet N. Install 8" Clay Pipe inlet S. See Sheet No. 5 for M. H. details

Sta. 6+91.6 Const. Std. M.H. Type "B" (5' dia.) Install 10" Stub N. & 8" Stub S. Alternate Install Structural Tee M.H. Install 10" Clay Pipe inlet N. Install 8" Clay Pipe inlet S.

Sta. 9+00.0 Const. Std. M. H. Type "B" (5' dia.) Install 30" Stub NE See Sheet No. 6 for M. H. details

Top of 8" Gas line.

N. Rim M.H 160.88

Hi-bank

South edge A. C. Pavement.

Flo So. ditch

Exist. 18" Bel Aire San. Sewer

Exist. 30" V.C.P. San. Sewer. (8" Reinf. Conc. encased.) @ 0.20 % fall

147.70 Flo in 10" stub N. 8" Stub S.

148.10 Flo in 10" Stub N. & 8" Stub S. or 10" clay Pipe inlet N. & 8" Clay Pipe Inlet S.

149.00 Flo in 10" Stub N. & 8" Stub S. or 10" Clay Pipe inlet N. & 8" Clay Pipe Inlet S

30" (EXTRA STRENGTH) CLAY PIPE

145.35 Flo out 30" Pipe 145.45 Flo in 30" Stub NE 149.05 Flo in 21" pipe

143.63 Flo in 24" 143.45 Flo out 30" 143.45 Flo in 30"

143.65

143.63 Flo out 143.79 Flo in

143.95

144.15

144.81 F/o

144.35

144.55

144.75

144.94 F/o 144.95

145.15

900 Lin. ft. of 30" (Extra Strength) Clay Pipe @ 0.20 % grade.

Alternate

900 Lin. ft. of 30" R.C.P. (Class III, Plastic lined) @ 0.20 % grade.

0 1 2 3 4 5 6 7 8

"As Built" Final Meas. I.H. 8.2

EXTENDING SUPPLEMENTAL SEWER TO S. S. NO. 12
EXT. OF S. S. NO. 23 IN 29TH. ST.
FROM ¼ MILE E. OF OLIVER ST. TO WOODLAWN BLVD.
CITY OF WICHITA, KANSAS
R. W. LINN — CITY ENGINEER
JULY 1973 PROJECT NO. DBKJ 573032

1/6

B. M. 172.38 City Std. 29th – Edgemoor
3.5' E. & 37.2' N. of Iron & both.

lies to Iron ¼ Cor.
47.22' N.W. to "+" cut on conc. base west end gate post.
37.15' N. to ctr. brass plug City Std.
41.63' NE to nail in washer E-face fnc. post.
74.09' NE to "+" on SE cor. conc. Box
90.35' E NE to nail in washer S.-face P.P.

Dedicated Roadway

NOTE:
Exist. S. W. Bell Telephone underground Conduit.

Exist. City Limits

Proposed City Limit

Proposed City Limit

Proposed City Limit

17+19.2
Sta. ~~17+20.0~~ Const.
Std. M.H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate, Install Structural Tee M.H.
Install 10" clay pipe inlet N. & 8" clay Pipe inlet S.

KE 459

TWENTY-NINTH ST.

NORTH

Exist. 8" City Limit

Exist. City Lim.i

Nail in Washer

Iron

Nail

Ditch

Sta. 9+00.0 Match

"CAUTION"
Existing 8" K.A.N.E.B. PIPE LINE
11'± S. of E. 29th St. No.
20" to 36" deep.

100' Temporary Construction Easement

100' Temporary Const. Easement

14+18.2
Sta. ~~14+14.4~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" clay Pipe inlet N. & 8" clay Pipe inlet S.

19+94.2
Sta. ~~19+96.5~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" clay Pipe inlet N. & 8" clay Pipe inlet S.

Grass

Begin Conc. Cradle

10+85.2
Sta. ~~10+84.5~~ Const.
Std. M.H. Type "B" (4' dia.)
Install 10" stub N, 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.
See Sheet No 5 & 6 for M.H. details

NW ¼ Sec. 1, Twp. 27 S., R. 1, E.

E. B. Shawver Petroleum Corp. KE 460-12

E. B. Shawver Petroleum Corp. KE 460-11

NE ¼ Sec. 1, Twp. 27 S., R. 1, E.

Sta. 10+84.5 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" Clay Pipe inlet N.
Install 8" Clay Pipe inlet S.
See Sheet No 5 and 6 for M.H. details

Sta. 14+46.4 Const.
Std. M.H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.

Sta. 17+20.0 Const.
Std. M.H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Struct. Tee M.H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.

Sta. 19+96.5 Const.
Std. M.H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" Clay Pipe inlet N.
Install 8" clay pipe inlet S.

Sta. 9+00.0

South edge of A.C. Pavement

Flo So. ditch

30" Class IV R.C.P. Alternate

152.35 Flo in 10" Stub N. & 8" stub S. "B" M.H.

152.60 Flo in 10" Clay Pipe inlet N. & 8" clay pipe inlet S. "Tee" M.H.

153.92 Flo in 10" Stub & 8" stub S. "B" M.H

153.50 Flo in 10" Stub N. & 8" stub S. or 10" Clay Pipe inlet N. 8" Clay pipe inlet S.

153.17 Flo in 10" Clay pipe inlet N. 8" clay pipe inlet S. "Tee" M.H.

154.35 Flo in 10" stub N. & 8" stub S. "B" M.H.

153.60 Flo in 10" clay pipe inlet N. & 8" clay pipe inlet S. "Tee" M.H.

154.80 Flo in 10" stub N. & 8" stub S. "B" M.H.

154.05 Flo in 10" Clay Pipe inlet N. 8" clay Pipe inlet S. "Tee" M.H.

163.50 Flo in 10" Stub N. & 8" stub S. or 10" Clay Pipe inlet N. 8" clay Pipe inlet S.

21" (EXTRA STRENGTH) CLAY PIPE

Conc. Cradle

149.05 149.21 149.35 Flo 149.37 149.53 149.69 149.85 149.92 Flo 150.01 150.17 150.33 150.36 Flo 150.49 150.65 150.80 Flo

1096.5 Lin. ft. of 21" (EXTRA STRENGTH) Clay Pipe @ 0.16 % grade.
550.1 Lin. ft. of Concrete Cradle for 21" Clay pipe.

ALTERNATE

1296.5 Lin. ft. of 30" R.C.P. (class IV Plastic lined) @ 0.16 % grade

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

5/6 2/6

Ties to Iron 1/16 cor.
122.82' NW to 3 Hollow point tacks S-face P.P.
43.15' S. SW to 3 hollow point tacks N-face fnc. Post.
171.90' NE to 3 hollow point tacks SW face P.P.
16.0' W. to fc South.
40.1 N. to fc E-W.

KE 458

Sta. ~~26+900~~ 26+88± Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.

5' Iron

Proposed City Limits

40' R/W

Nail

TWENTY-NINTH ST.

Exist. City Limits

Ditch

Sta. 19+96.5

30'

100'

Sta. ~~23+00~~ 23+12 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.
See Sheet No. 5 and 6 for M.H. details

100' temp.

"CAUTION"
Existing KANEB 8" Pipe Line.
11'± so. of S. 29th St. No.
30" to 36" deep.
Call Mr. Oatman 262-1408

Maize
Const. Easement
Field

264' 17' 39.1' 12.5 243'

Nail Iron Nail Nail

Proposed City Limits

Sta. 32+00

40' R/W

NORTH

Exist. City Limits

Ditch

119'

Nail

Sta. ~~30+00~~ 30+38± Const.
Std. M. H. Type "B" (4' dia.)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets N. & S.

31' 36' 42'

8" KANEB Pipe line

Wheat

Field

100'

N

E. B. Shawver Petroleum Corp.
KE 460-11

NE 1/4 Sec. 1, Twp. 27S, R. 1, E. 6 P.M.

Jack DeBoer
KE 460-10

Sta. 23+45.0 Const. (4' dia.)
Std. M. H. Type "B"
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.
See sheet No. 5 and 6 for M. H. details.

Sta. 28+90.0 Const. (4' dia.)
Std. M. H. Type "B"
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.

Sta. 30+40.0 Const. (4' dia.)
Std. M. H. Type "B"
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" clay pipe outlets N. & S.

Sta. 32+00.0

180
175
170
165
160
155
150

Sta. 19+96.5

South edge A.C. Pavement

Flo So. ditch

Top 8" Gas line 176.11

Flo So. ditch

164.50 Flo in 10" Stubs N. & S. or 10" Clay Pipe inlet N 8" clay Pipe inlet S.

166.50 Flo in 10" Stub N. & 8" stub S. or 10" Clay Pipe inlet N. 8" Clay Pipe inlet S.

167.50 Flo in 10" Stubs N. & S. or 10" Clay Pipe inlet N. & S.

155.40 Flo in 10" Stub N. & 8" stub S. "B" M. H.

154.65 Flo in 10" Clay Pipe inlet N. & 8" clay pipe inlet S. "Tee" M. H.

155.90 Flo in 10" stub N. & 8" stub S. "B" M. H.

155.15 Flo in 10" clay pipe inlet N. & 8" clay pipe inlet S. "Tee" M. H.

156.50 Flo in 10" Stubs N. & S. "B" M. H.

155.75 Flo in 10" Clay Pipe inlet N. & S. "T" M. H.

21" (EXTRA STRENGTH) CLAY PIPE

150.80 150.97 151.13 151.29 151.36 Flo 151.45 151.61 151.77 151.91 Flo 151.93 152.09 152.25 152.41 152.47 Flo 152.57 152.73

20 21 22 23 24 25 26 27 28 29 30 31 32

1203.5 Lin. ft. of 21" (Extra Strength) Clay Pipe @ 0.16% grade.
1203.5 Lin. ft. of Conc. Cradle for 21" Clay pipe.

Alternate

1203.5 Lin. ft. of 30" R.C.P. (class V, Plastic lined) @ 0.16 % grade.

3/6

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 5730-02

3/6

B. M. 175.85 City Std. Square cut top N-Hdwl. to R.C.B. 49 ft. W. and 17 ft. N. of ℄ both 29th St. N. and Woodlawn.

Ties to Iron ℄ 29th St. No. and ℄ Woodlawn
58.05' SE to 3" nail (#8) in W-face car. post.
51.00' SW to "+" on conc. Hdwall.
51.03' NW to "+" on conc. Hdwall.
49.69' N.W. to nail in pop cap N. face P.P.
56.35' NE to nail in pop cap SE-face P.P.

NOTE:
Proposed 24" Water line.
4.5' deep to top of pipe.

35+86 ±
Sta. ~~33+00.0~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets N. & S.
See sheet No. 5 and 6 for M. H. details

KE 458

Proposed City Limits

4" Rural Water line

TWENTY-NINTH ST. NORTH

Exist. City Limits

Exist. City Limits

Ditch

Ditch

37+67 ±
Sta. ~~37+00~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 2-10" Stubs N. & S.
Alternate:
Install Structural Tee M. H.
Install 2-10" Clay pipe outlets N. & S.

Sta. 32+00.0

Match

100' temporary Construction Easement.

Jack DeBeer
KE 460-10

Conc. Bridge Flo South end 1.73

B.V.D.

WOODLAWN

41+24 ±
Sta. ~~41+30~~ + Const.
Std. M. H. Type "B" (5' dia.)
Install 2-10" Stubs N. & S.
Install 15" stub East
End Conc. Cradle

K A N E B GAS 8" PIPE LINE

NOTE:
K A N E B 8" Pipe Line crosses ℄ of Woodlawn 314.1 ±27.3' ±So. of the ℄ of 29th St. No.

Sta. 32+00.0

Sta. 33+92.0 Const.
Std. M. H. Type "B" (4' dia.)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets No. 5 sheet No. 5 and 6 for M. H. details

Sta. 37+72.0 Const.
Std. M. H. Type "B" (4' dia.)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M.H.
Install 2-10" Clay Pipe outlets N. & S.

Sta. 40+41 ± 4" Water line

Sta. 41+30.4 Const.
Std. M. H. Type "B" (5' dia.)
Install 2-10" stubs N. & S.
Install 15" Stub East

So. edge of A. C. Pavement

Flo So. Ditch

167.50 Flo in 10" Stubs or 10" Clay Pipe Inlets

165.50 Flo in 10" stubs N. & S. or 10" Clay Pipe Outlet

164.00 Flo in 10" Stub N. & S.

157.43 Flo in 10" Stub N. & S. When 30" R.C.P. is used

157.00 Flo in 10" Stub N. & S. "B" M.H.

156.25 Flo in 10" Clay Pipe inlet N. & S. "Tee" M.H.

157.60 Flo in 10" Stub N. & S. "B" M.H.

156.65 Flo in 10" clay pipe inlet N. & S. "Tee" M.H.

158.24 Flo in 12" Stub N. & S. When 21" Clay Pipe

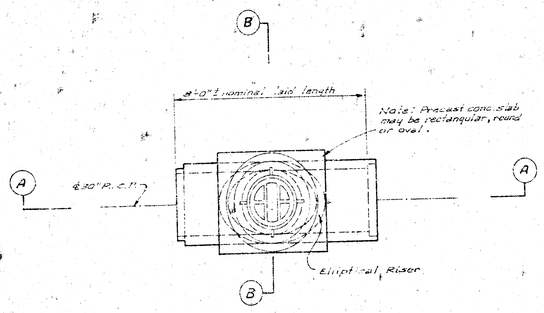
21" (EXTRA STRENGTH) CLAY PIPE

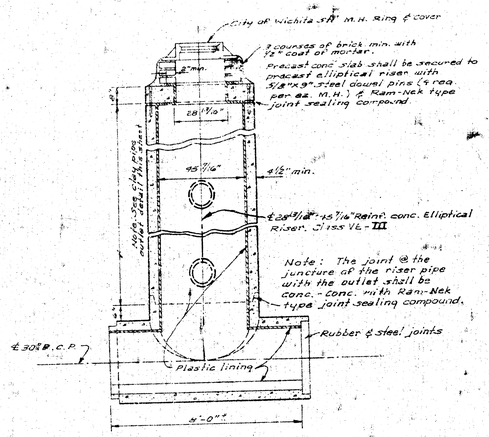
152.73 | 152.89 | 153.03 Flo 153.05 | 153.21 | 153.37 | 153.53 | 153.64 Flo | 153.69 | 153.85 | 154.01 | 154.17 | 154.82 Flo out 21" 154.72 Flo in 15" Stub East

930.4 Lin. ft. of 21" (Extra Strength) Clay Pipe @ 0.16% grade.
930.4 Lin. ft. of Conc. Cradle for 21" Clay Pipe.
Alternate
930.4 Lin. ft. of 30" R.C.P. (Class V, Plastic lined) @ 0.16% grade.

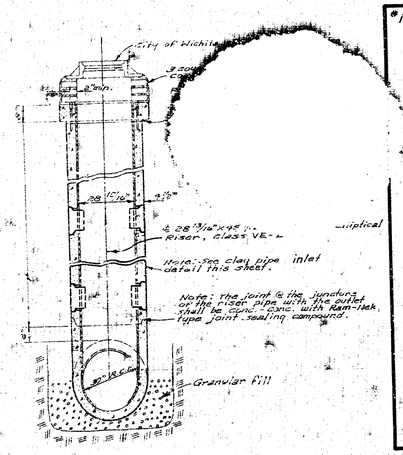
32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41

EXTENSION TO
SANITARY SEWER NO. 23 4/6
PROJECT NO. DBKJ 573032

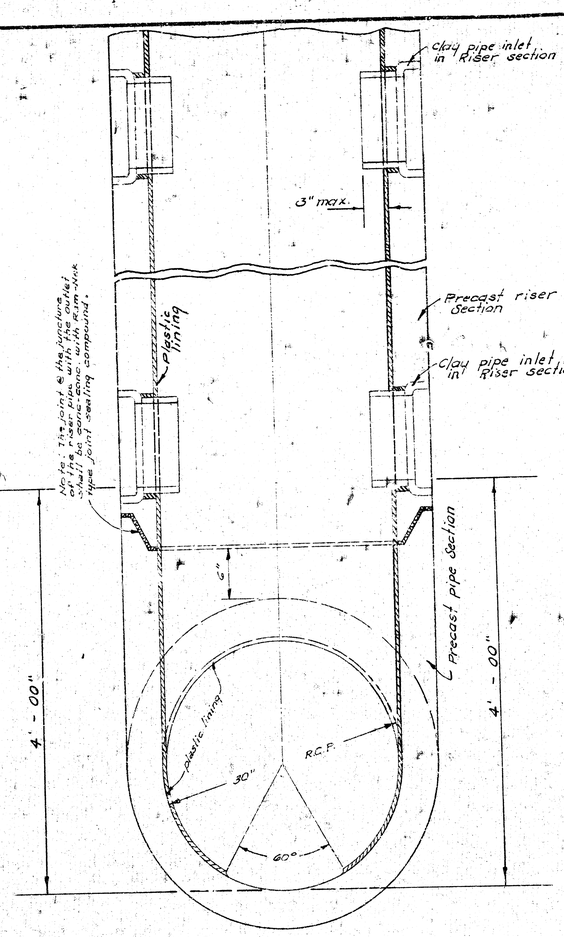




SECTION AA
Scale 3/8"=1'-0"



SECTION BB
ALTERNATE PRECAST CONC. M.H. FOR 30" R.C.P.
Scale 3/4"=1'-0"



PRECAST MANHOLE INLET DETAIL
Scale 1 1/2"=1'-0"

GENERAL NOTES

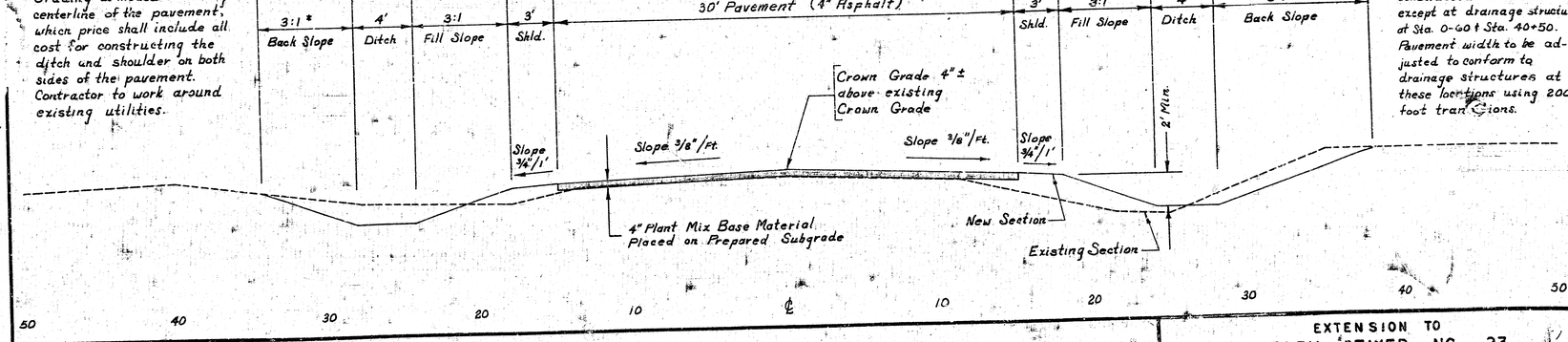
1. ALL 8" AND 10" STUBS OR 8" AND 10" INLETS INTO MANHOLES SHALL BE PLACED SUCH THAT THE BELL END OF THE PIPE STUB IS FLUSH WITH THE OUTSIDE DIAMETER OF THE MANHOLE.
2. REINFORCED CONCRETE PIPE FURNISHED FOR THIS PROJECT SHALL BE LINED WITH PLASTIC EXCEPT FOR THE BOTTOM SEGMENT SUBTENDED BY A 60° ANGLE. PLASTIC LINING SHALL BE AMER-PLATE T-LOCK AS MANUFACTURED BY AMERON CORPORATION, LOK RIB KOROSEAL AS MANUFACTURED BY B. F. GOODRICH, OR OTHER APPROVED EQUAL.
3. SAND BACKFILLING AND OTHER RELATED BACKFILL WORK THAT IS NORMALLY PAID FOR ON A TONNAGE BASIS SHALL BE MEASURED AND PAID FOR BY THE LINEAL FOOT.
4. SHOP DRAWINGS OF STRUCTURAL TEE MANHOLES TO BE FURNISHED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL,
5.
6. THE USE OF WYO-BOND BENTONITE AS MANUFACTURED BY ASCHER DANIELS MIDLAND COMPANY, OR AN APPROVED EQUAL, WILL BE REQUIRED AS A MIXTURE WITH THE BACKFILL MATERIAL AT THE LOCATION OF ALL BRICK MANHOLES. THE AMOUNT OF BENTONITE REQUIRED SHALL RANGE BETWEEN 40 TO 80 POUNDS PER MANHOLE LOCATION AS DIRECTED BY THE ENGINEER. NO DIRECT PAYMENT SHALL BE MADE FOR THIS AND SUCH COST SHALL BE INCLUDED IN THE PRICE BID FOR BRICK MANHOLES.
7. THE OUTSIDE SURFACES OF ALL BRICK MANHOLES AND PRECAST CONCRETE RISERS SHALL BE COATED WITH A DAMP-PROOFING MATERIAL SUCH AS BITUMASTIC SUPER SERVICE BLACK OR BITUMASTIC NO. 50 AND PRIMER, AS MANUFACTURED BY KOPPERS CHEMICALS AND COATINGS OR AN APPROVED EQUAL. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
8. FURNISHING AND INSTALLING 8" AND 10" STUBS OR 8"AND 10" INLETS AT LOCATIONS SHOWN BY PLANS WILL NOT BE PAID FOR DIRECTLY. THE COST OF FURNISHING ALL 8" AND 10" STUBS OR 8" AND 10" INLETS SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
9. REINFORCED CONCRETE PIPE SHALL BE CLASS IV OR V AS SHOWN BY PLANS. REINFORCED CONCRETE RISERS FOR STRUCTURAL TEE MANHOLES SHALL BE CLASS III. THE ABSORPTION OF REINFORCED CONCRETE PIPE AND RISERS SHALL NOT EXCEED 7.2 PERCENT.
10. THE ENDS OF ALL REINFORCED CONCRETE PIPE INSTALLED IN BRICK MANHOLES SHALL BE PROTECTED BY PLASTIC LINING AS APPROVED BY THE ENGINEER.
11. SAND BACKFILL SHALL BE PLACED AND VIBRATED IN 6 FOOT LIFTS.
12. FIELD ENGINEER TO TAKE TIES TO ALL IRONS AND REPLACE THOSE THAT ARE DISTURBED.
13. ALL 8" AND 10" STUBS OR 8" AND 10" INLETS AT MANHOLE LOCATIONS SHALL BE PLUGGED WITH TEMPORARY PLUGS. THIS WORK WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLES.

NOTE 14: GRANULAR EMBEDMENT MATERIAL SIX (6) INCHES IN DEPTH SHALL BE REQUIRED FOR CLAY PIPE OF ALL SIZES WHERE CONCRETE CRADLE IS NOT SPECIFIED. THE COST OF THIS GRANULAR EMBEDMENT SHALL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.

NOTE 15: SIX (6) INCH EMBEDMENT MATERIAL REQUIRED FOR REINFORCED CONCRETE PIPE SHALL BE INCLUDED IN PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.

*NOTE:
Grading of ditch & shoulder shall be paid for at the price bid per lineal foot of Ditch Grading as measured along centerline of the pavement, which price shall include all cost for constructing the ditch and shoulder on both sides of the pavement. Contractor to work around existing utilities.

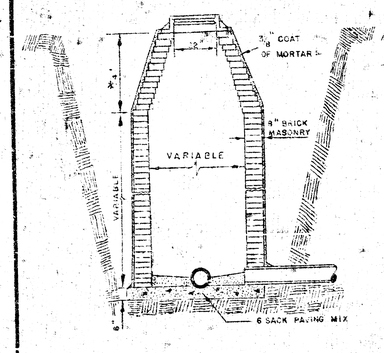
PAVEMENT CONSTRUCTION TYPICAL SECTION



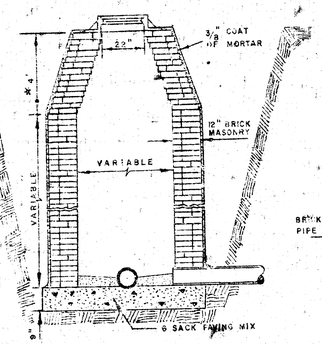
*NOTE:
Backslope to be constucted as shown except where right-of-way is not adequate.

**NOTE:
Width of pavement to be constructed as shown except at drainage structures at Sta. 0-60 & Sta. 40+50. Pavement width to be adjusted to conform to drainage structures at these locations using 200 foot transitions.

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

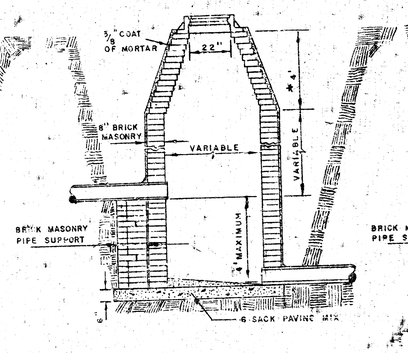


STANDARD MANHOLE
TYPE "A"

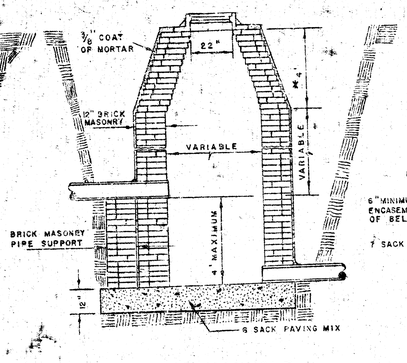


STANDARD MANHOLE
TYPE "B"

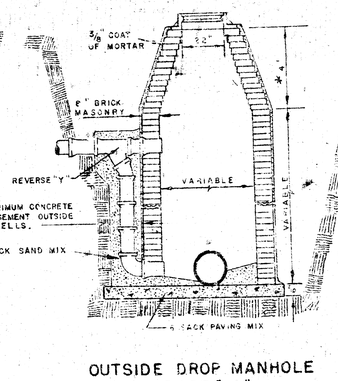
* DRAW = 6' ON 5' DIA. M.H.



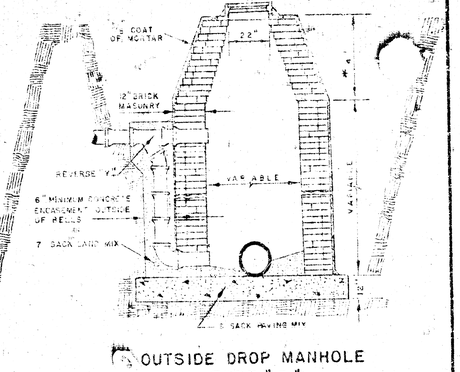
DROP MANHOLE
TYPE "A"



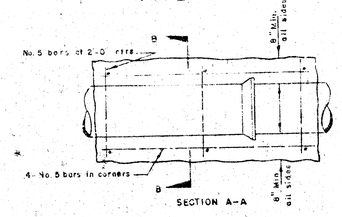
DROP MANHOLE
TYPE "B"



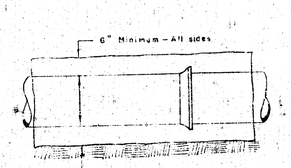
OUTSIDE DROP MANHOLE
TYPE "A"



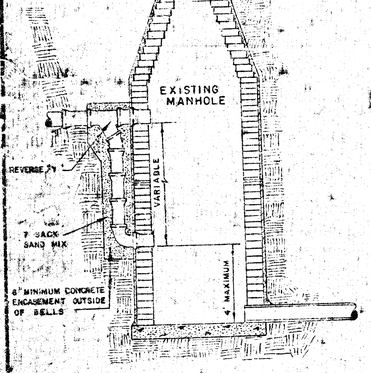
OUTSIDE DROP MANHOLE
TYPE "B"



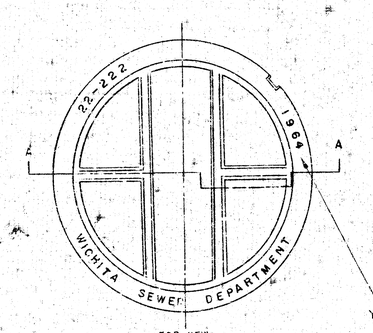
REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH



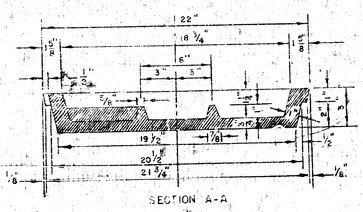
CONCRETE ENCASEMENT
FOR COVER



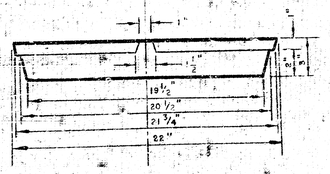
DETAIL OF DROP STACK
FOR EXISTING MANHOLES IN GROUND WATER



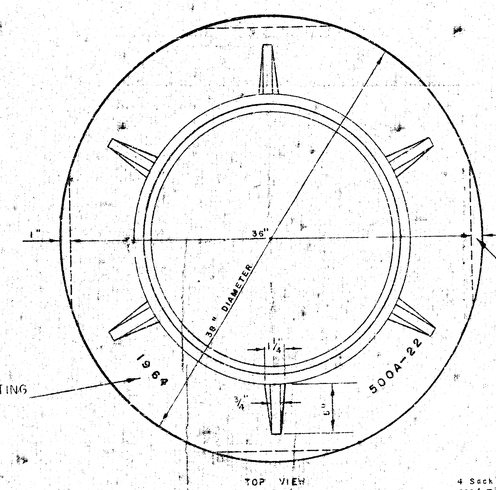
TOP VIEW
MANHOLE COVER
WEIGHT 110 lbs.



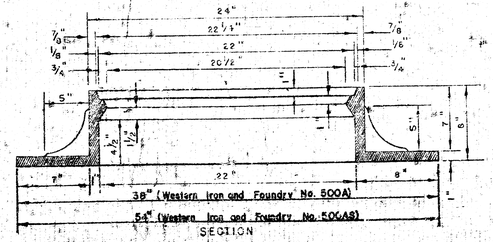
SECTION A-A
MANHOLE COVER



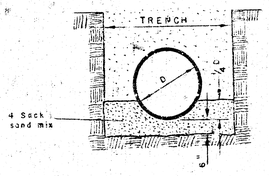
SIDE VIEW
MANHOLE COVER



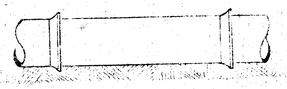
TOP VIEW
MANHOLE RING
WEIGHT 355 lbs.

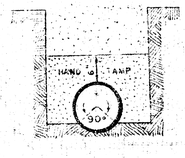


SECTION
MANHOLE RING
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.

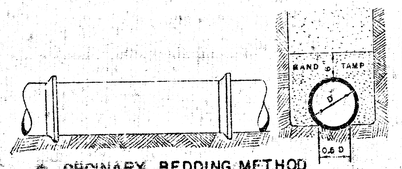


DETAIL OF CONCRETE CRADLE





ORDINARY BEDDING METHOD
FOR CLAY PIPE



ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE

MANHOLES

THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES, AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 5' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN. ALL M.H.'S WITH PIPES 24" & SMALLER SHALL BE 4' DIA.

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
PROJ. NO. 1964 DBKJ 573032

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