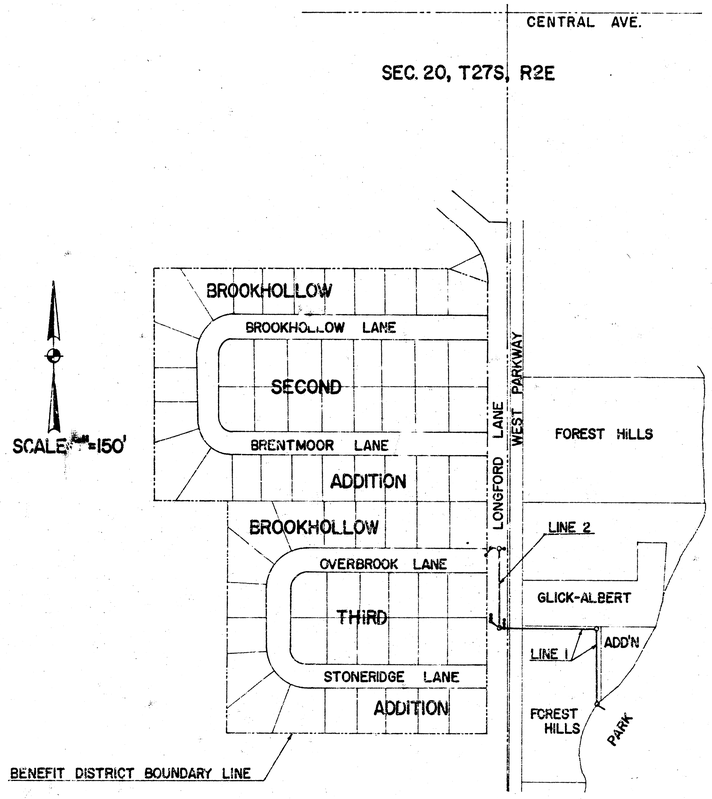
STORM WATER SEWER NO. 113

CITY OF WICHITA, KANSAS

R.W. LINN, CITY ENGINEER



GENERAL NOTES

The price bid for "Clearing Right-of-way" shall include all removal and replacement work necessary for construction of Storm Water Sewer No. 113 and will include tree removal and the removal and replacement of stone walls and walks. This work east of Longford Lane shall also include the shaping of the surface simular to existing ~~contours and grades~~. Attempts have been made to indicate location of trees, stone walls and stone walks on the plans. Site inspection is required by contractor to verify extent of required work.

The price bid for "Pipe" includes the required fence removal and replacement. It may be possible to construct Storm Water Sewer No. 113 without fence removal, but costs may be less to the contractor if he removes and replaces the fence. The contractor has the option to construct Storm Water Sewer No. 113 with or without fence removal. All fence removed shall be replace.

Pipe furnished for this project shall be either all reinforced concrete pipe or all corrugated metal pipe. Corrugated metal pipe shall conform to the applicable sections of Section 1009.05 and 1009.07 of the 1973 Kansas State Highway Specifications. Corrugated metal pipe furnished for this project shall be coated in accordance with "Type C" of Section 1009.0". The outlet pipes from curb inlets shall be same size corrugated metal pipe as shown for reinforced concrete pipe.

All curb inlets are to be constructed at the "set-back" location. See Wichita Standard Drawing for Standard 2' x 5' Inlet (Set Back Location). Construction notes for each inlet gives the size and length of the outflow pipe together with its upstream flow elevation (U.S.F.L.) and its downstream flow elevation (D.S.F.L.).

All brick manholes are to be constructed in accordance with Wichita Standard Drawing entitled "Sewer Appurtenances."

Contractor must use special care while constructing inlets on west side of Longford Lane so as to not damage water line under said inlets. The water lines as shown on the plans as "proposed" may be constructed by the time that the inlets are to be constructed.

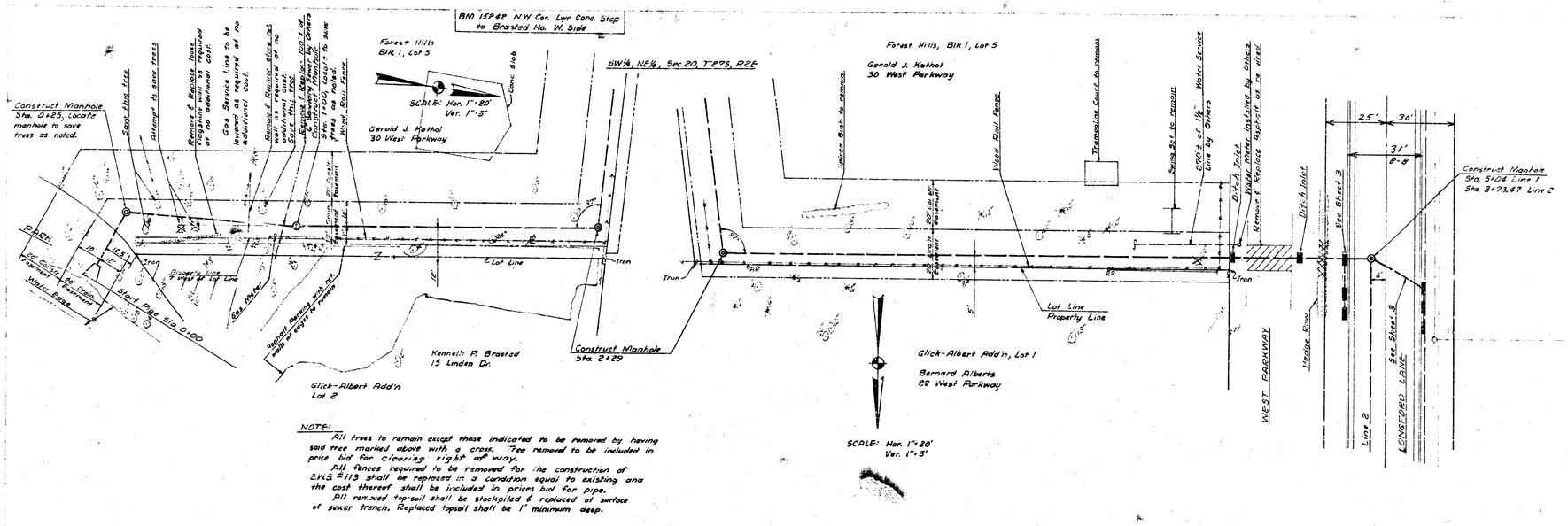
Manhole rings having a base diameter of "A" shall be used with all brick manholes.

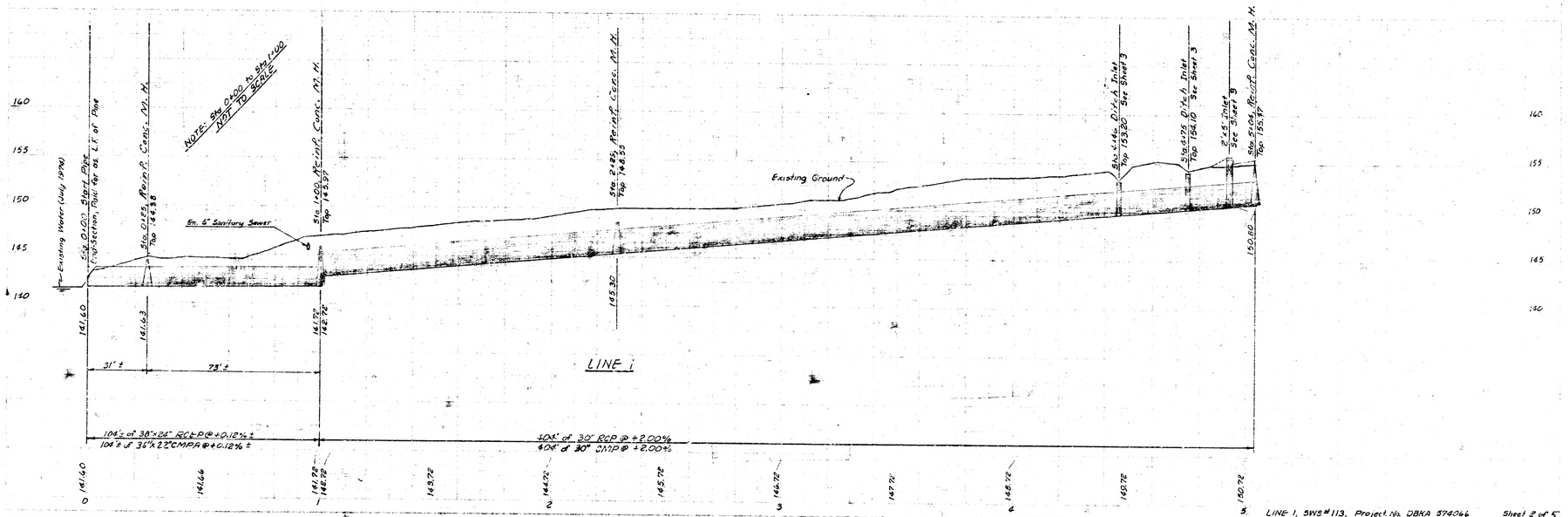
NOTE: TREES TO BE REMOVED ONLY WHEN APPROVED BY THE ENGINEER

PROJECT NO. DBKA 574066

DATE:_____

WILLIAM S. KERBY LICENSED 2146 STATE OF KANSAS


BM 1524.2 N.W. Cor. Lwr. Conc. Step to Brasted Ho. W. Side
Forest Hills Blk 1, Lot 5
Conc. Slab
SCALE: Hor. 1"=20' Ver. 1"=3'
Gerald J. Kathol 30 West Parkway
SW¼, NE¼, Sec. 20, T.9S., R.2E.
Forest Hills, Blk 1, Lot 5
Gerald J. Kathol 30 West Parkway
Construct Manhole Sta. 0+25, Locate manhole to save trees as noted.
Save this tree
Attempt to save trees
Remove & Replace Post & Rail Fence
Remove & Replace Rock wall as required at no additional cost
Gas Service Line to be lowered as required at no additional cost.
Remove & Replace 100' of Chain Link Fence
Construct Manhole Sta. 1+00, Locate to save trees as noted.
Metal Railroad Fence
Drainage Easement
20' Gas Easement
Iron
Property Line
Lot Line
Start Pipe Sta. 0+00
Gas Meter
Asphalt Parking slopes at 10% as shown to remain
Kenneth R. Brasted 15 Linden Dr.
Glick-Albert Add'n Lot 2
Construct Manhole Sta. 2+29
Iron
Lot Line
Property Line
Glick-Albert Add'n, Lot 1
Bernard Alberts 22 West Parkway
SCALE: Hor. 1"=20' Ver. 1"=5'
Spruce Bush to remain
Trampoline Court to remain
Swing Set to remain
2700's of 1½" Water Service Line by Others
Ditch Inlet
Water Meter Installed by Others
Remove & Replace Asphalt as req'd
Ditch Inlet
WEST PARKWAY
Ledge Rock
See Sheet 3
25'
30'
31'
8-8
6'
Construct Manhole Sta. 3+04 Line 1 Sta. 3+73.47 Line 2
Line 2
LONGFORD LANE
NOTE:
All trees to remain except those indicated to be removed by having said tree marked above with a cross. Tree removal to be included in price bid for clearing right of way.
All fences required to be removed for the construction of SWS #113 shall be replaced in a condition equal to existing and the cost thereof shall be included in prices bid for pipe.
All removed top soil shall be stockpiled & replaced at surface of sewer trench. Replaced topsoil shall be 1' minimum deep.


Existing Water (July 1974)
Sta. 0+00 Start Pipe End Section, Point for as L.F. of Pipe
NOTE: Sta 0+00 to Sta 1+00 NOT TO SCALE
Sta. 0+65 Approx. Conc. Ant. H. Top 144.38
Em. 6" Sanitary Sewer
Sta 1+00 Approx. Conc. Ant. H. Top 145.37
Sta 2+25 Approx. Conc. Ant. H. Top 146.35
Existing Ground
Sta 4+46 Ditch Inlet Top 153.20 See Sheet 3
Sta 4+72 Ditch Inlet Top 154.10 See Sheet 3
2'-5" Inlet See Sheet 3
Sta 5+04 Finish Conc. Ant. H. Top 155.97
160
155
150
145
140
141.60
141.63
141.72
142.72
145.30
150.80
31'±
73'±
LINE 1
104'± of 38"x24" RCE-P @ +0.12%±
104'± of 35"x22" CMPA @ +0.12%±
404' of 30" RCP @ +2.00%
404' of 30" CMP @ +2.00%
141.60
141.64
141.72
142.72
143.72
144.72
145.72
146.72
147.72
148.72
149.72
150.72
0
1
2
3
4
5

BM 15721 Top of brick N.W. Cor. south light brick hubguard to drive entrance at 8 West Parkway

STONERIDGE LANE

Construct Manhole Sta. 3+73.47 Line 2 Sta. 5+04 Line 1

8" S.S.

2'×5' Inlet, Sta. 3+85.33, Top 155.85
18"×24" RCP, USFL 152.10, DSFL 151.80

2'×5' Inlet, Sta. 3+93.33, Top 155.83
15"×4' RCP, USFL 152.40, DSFL 152.30

2'×5' Inlet, Sta. 4+01.33, Top 155.85
15"×4' RCP, USFL 152.60, DSFL 152.50

4" Gas Line

Proposed 12" AC Water

LONGFORD LANE

2'×5' Inlet, Sta. 3+95.71, Top 155.80
15"×4' RCP, USFL 152.40, DSFL 152.50

2'×5' Inlet, Sta. 3+87.71, Top 155.78
15"×10' RCP, USFL 152.40, DSFL 152.30

2'×5' Inlet, Sta. 3+73.47, Top 155.80

AVEBEBOCK LANE

8" AC Water

2" Gas

2'-5' Inlet, Top 159.70
15"×28' RCP, USFL 155.10, DSFL 154.80

2'×5' Inlet, Top 158.20
15"×28' RCP, USFL 154.70, DSFL 154.20

2'×5' Inlet, Top 158.23
15"×10' RCP, USFL 154.70, DSFL 154.20

Construct Manhole Sta. 4+05.7

NOTE: Streets as shown are proposed and do not exist. All inlets at set-back location.

Stationing this sheet equals paving stationing Longford Lane.

SCALE: Hor. 1"=20'
Ver. 1"=5'

PLAN

Notch edges 2⅛"×2⅛" for Grate

Pipe

Install Grate See detail this sheet

Top

Pipe

4" Built-in Masonry Fill Walls Varies

SECTION

Shape Bottom

DITCH INLET

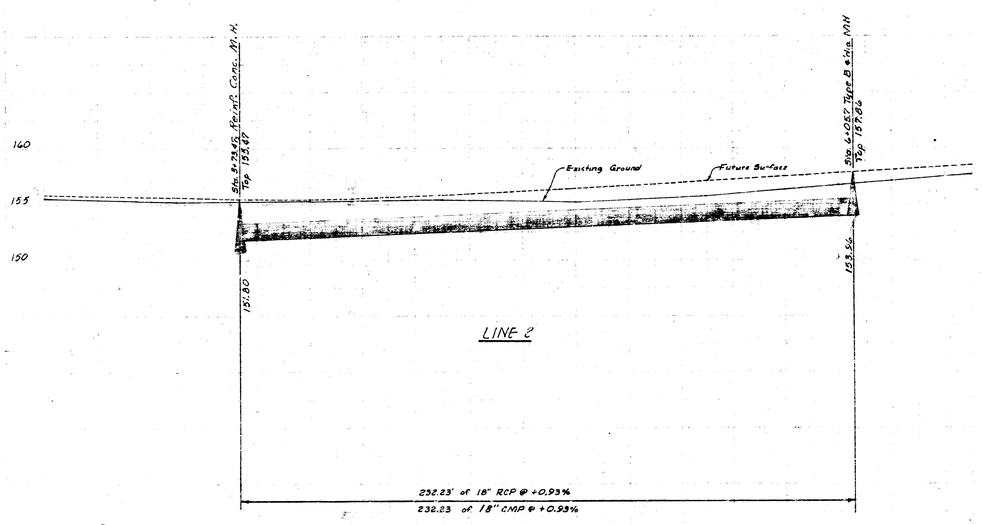
17 spaces @ 2⅜"

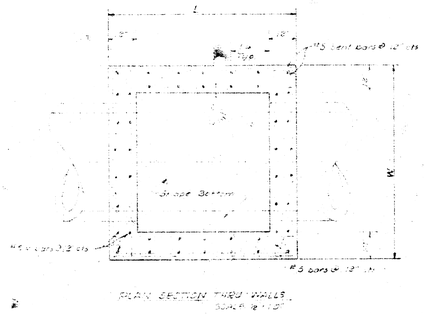
4'-4"

18-⅝"×2½"×2'2⅛" Grate Bars

2-¾"×2½"×4'4" End Bars

WELDED STRUCTURAL STEEL GRATE
Weight 264 lbs





PLAN SECTION THRU WALLS
SCALE: 1" = 1'-0"

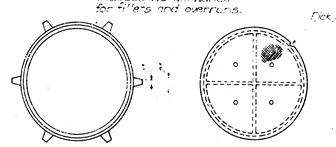
MANHOLE SCHEDULE

STATION	L	W	Top Elev.
0+25*	6'0"	6'0"	149.38
1+00*	6'0"	6'0"	145.97
2+29*	6'0"	6'0"	146.55
5+04*	6'0"	6'0"	154.05

* Light Type Casting



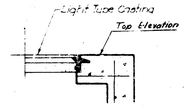
NOTE : Weight of castings includes no allowance for fillers and overruns.



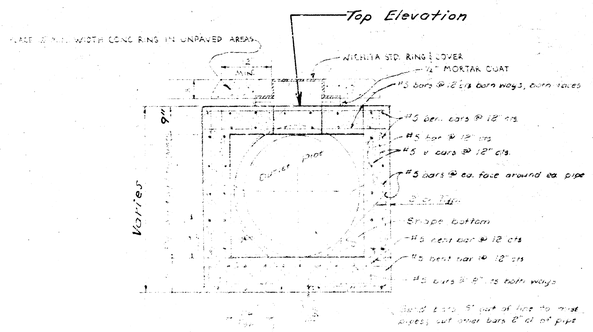
CAST IRON MANHOLE RING
Weight - 53 Lbs.

CAST IRON MANHOLE COVER
Weight - 64 Lbs

LIGHT TYPE MANHOLE COVER & RING



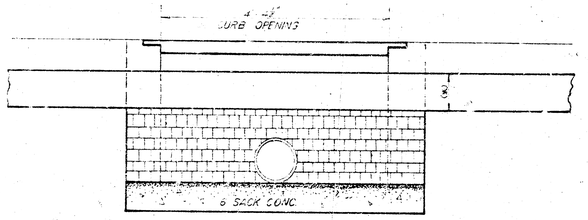
LIGHT TYPE CASTING INSTALLATION



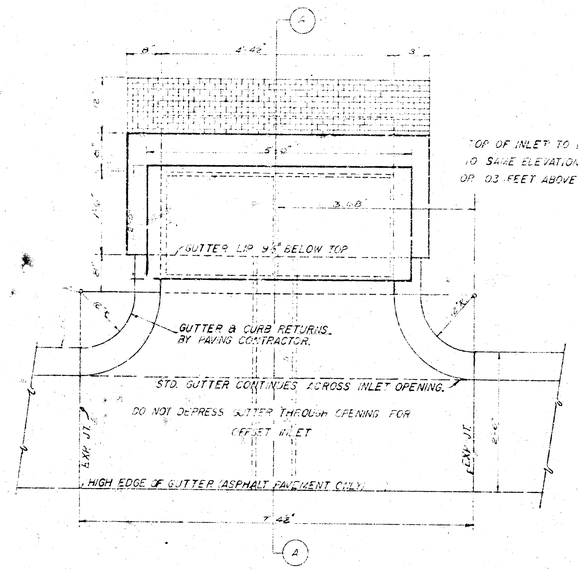
Reinforced Concrete Manhole Details
S. W. S. #113
Proj. No. DBKA574066
Sheet # 4 of 5

THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH ASPHALT BASE COURSE AND/OR WHEN PAVEMENTS HAVE ROLL CURB.

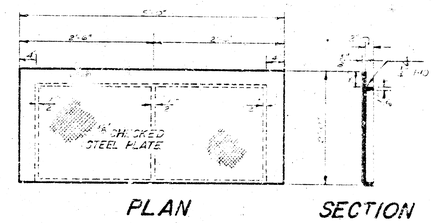
NOTE: STRUCTURAL STEEL FOR INLET COVER SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION A36.



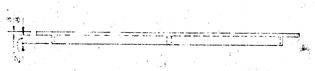
ELEVATION



PLAN

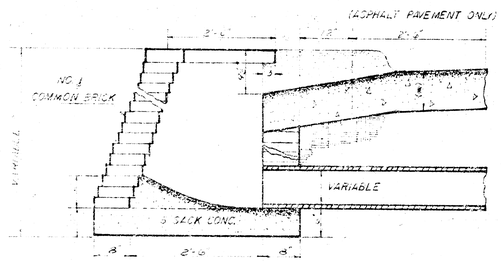


PLAN SECTION



ELEVATION

CITY OF WICHITA
STEEL INLET COVER
WEIGHT = 206 LBS.
SHOP PAINT = BLACK ASPH.
SCALE 1"=1'-0"



4 SECTION THRU INLET
2'x5' INLET DETAIL
SCALE 1"=1'-0"

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C32 FOR MANHOLE BRICK GRADE MS.

(*) CURB & GUTTER OR PAVEMENT THICKNESS

STANDARD 2'x5' INLET AT SET BACK LOCATION
SCALE 1"=1'-0"

S.W.S. #113
Proj. No. DBKA574066
Sheet #5 of 5

DETAIL STANDARD 2'x5' INLET

(SET BACK LOCATION)

CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

JUNE 1974

14 1 5 (5)