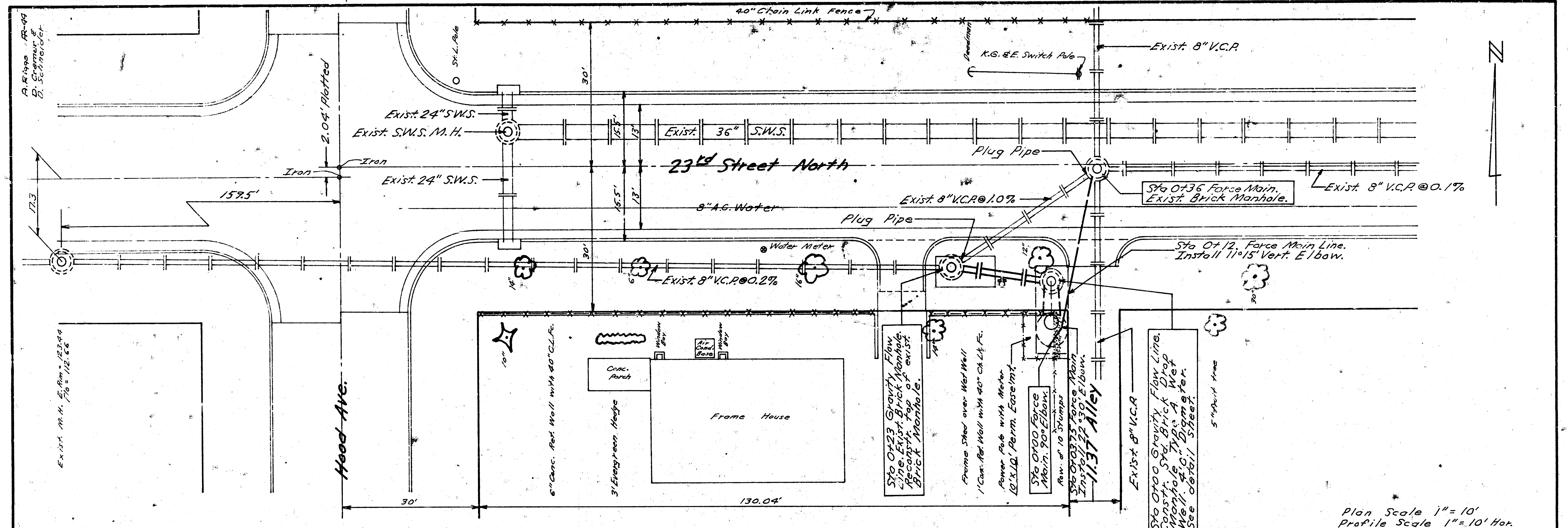

A. Riggs R-44
D. Cramer &
D. Schneider
40" Chain Link Fence
Exist. 8" V.C.P.
Deadman
K.G. & E. Switch Pole
St. L. Pole
Exist. 24" S.W.S.
Exist. S.W.S. M.H.
2.04' Platted
Iron
Iron
Exist. 24" S.W.S.
17.3
159.5'
30'
15.5'
13'
15.5'
13'
30'
Exist. 36" S.W.S.
23rd Street North
8" A.C. Water
Plug Pipe
Exist. 8" V.C.P. @ 1.0%
Plug Pipe
Sta 0+36 Force Main. Exist. Brick Manhole.
Exist. 8" V.C.P. @ 0.1%
Water Meter
Exist. 8" V.C.P. @ 0.2%
Sta 0+12. Force Main Line. Install 11°15' Vert. Elbow.
14"
6"
16"
12"
30"
14"
10"
Exist. M.H. E. Rim = 123.44 F/o = 112.66
Hood Ave.
6" Conc. Ret. Wall with 40" C.L. Fc.
3' Evergreen Hedge
Window Bay
Air Cond. Base
Window Bay
Conc. Porch
Frame House
Sta 0+23 Gravity Flow Line. Exist. Brick Manhole. Reconstr. top of exist. Brick Manhole.
Frame Shed over Wet Well
1' Conc. Ret. Wall with 40" Ch. Lk. Fc.
Power Pole with Meter
10'x10' Perm. Ease'mt.
Sta 0+00 Force Main. 90° Elbow.
Row of 10 Stumps
Sta 0+03.75 Force Main Install 22°30' Elbow.
11.37' Alley
Exist. 8" V.C.P.
Sta 0+00 Gravity Flow Line. Constr. Std. Brick Drop Manhole Type A Wet Well. 4'0" Diameter. See detail sheet.
5" fruit tree
30'
130.04'

Plan Scale 1" = 10'
Profile Scale 1" = 10' Hor.
1" = 4' Vert.

B.M. 125.72 S.E. Corner Conc. Porch
House No. 2401 Hood.

General Notes:

#1. Contractor to devise own method for handling sewage, subject to the approval of the engineer, while installing new sewage lift station facilities. All costs incurred by the contractor for handling the sewage will not be paid for directly and are to be included in the bid price for the lift station.

#2. All external electrical wiring to conform with the lift station manufacturer's requirements, the National Electrical Code requirements, and the local code requirements of the City of Wichita.

#3. All waste material to be disposed of by the contractor as approved by the engineer. Existing pump and motor to be transported to the City of Wichita materials storage yard. These items of work to be considered as incidental to the construction of the lift station.

#4 All backfill to be either sand fill or flushed, if excavated material is suitable for flushing. The top one foot of backfill in areas not covered by pavement to be replaced with compacted topsoil.

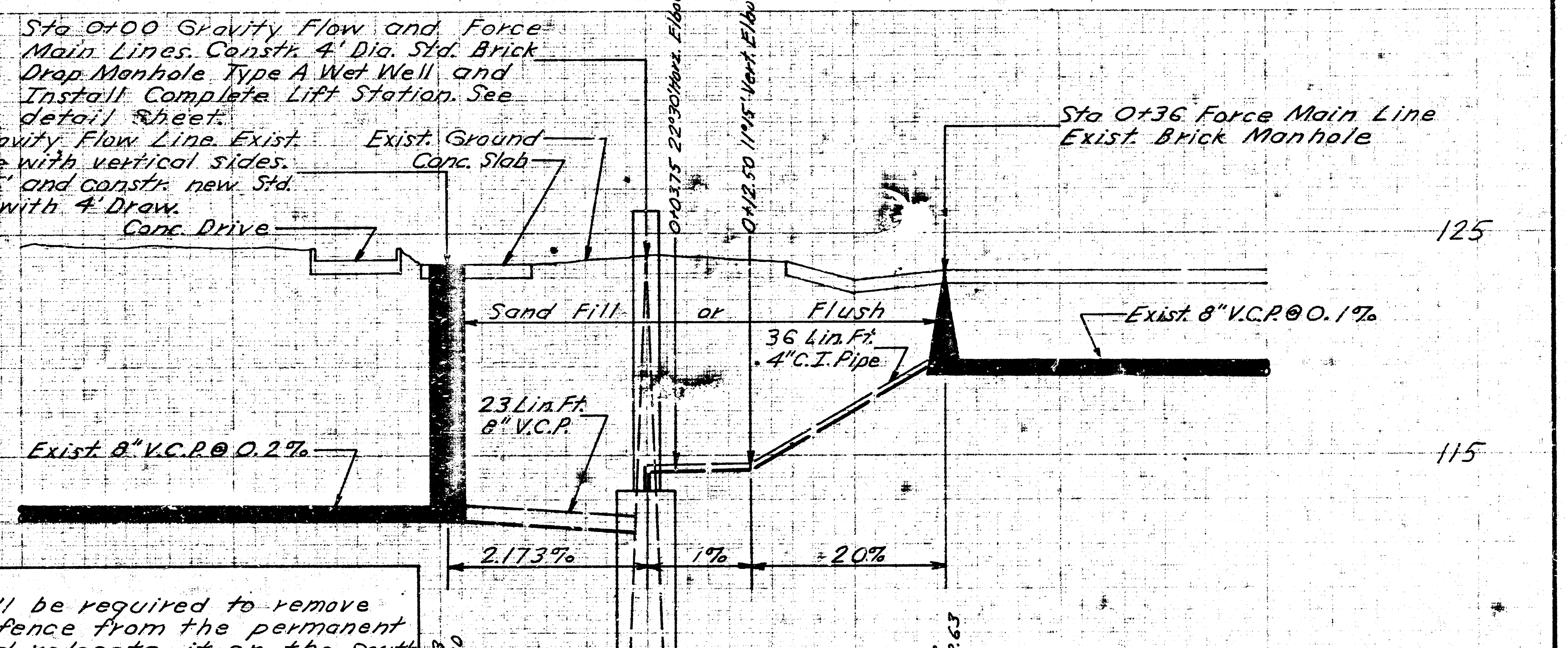
#5 The bid item Sq. Yds. Pavement Removed and Replaced is to be considered as payment for removing and replacing both concrete and asphalt pavement; including such items as separate curb, separate gutter, integral curb, combined curb and gutter, and saw joint.

#6 The cost of all 4" cast iron elbows and concrete thrust blocking shall be included in the bid price for Lin. Ft. 4" Cast Iron Pipe.

#7 The concrete pad shall be cured for seven days before placing lift station.

#8 A 6" 6-sack mix 3,000 P.S.I. concrete walk is to be constructed around lift station entrance tube and out to the south line of 23rd Street No. See walk detail on sheet No. 2. Walk will not be paid for directly and the cost is to be included in the bid price for the lift station.

#9 Contractor to either relocate exist. service pole, if in usable condition, or furnish new service pole and this work to be considered as incidental to construction of lift station.

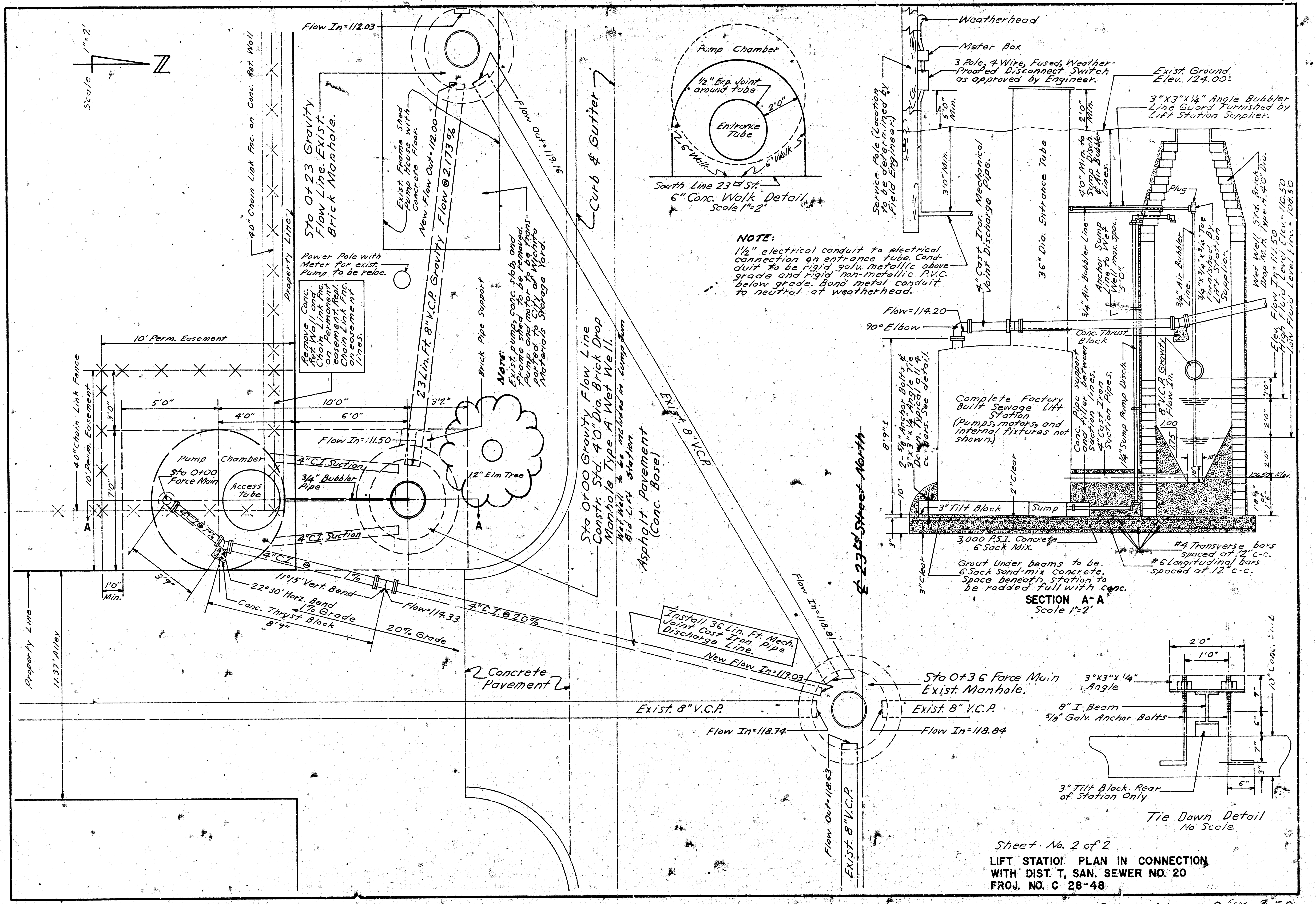

Sta 0+00 Gravity Flow and Force Main Lines. Constr. 4' Dia. Std. Brick Drop Manhole Type A Wet Well and Install Complete Lift Station. See detail sheet.
Sta 0+23 Gravity Flow Line. Exist. Brick Manhole with vertical sides. Remove top 5' and constr. new Std. Manhole Top with 4' Draw.
Exist. Ground
Conc. Slab
Conc. Drive
0+03.75 22°30' Horz. Elbow
0+12.50 11°15' Vert. Elbow
Sta 0+36 Force Main Line
Exist. Brick Manhole
125
Sand Fill or Flush
36 Lin. Ft. 4" C.I. Pipe
Exist. 8" V.C.P. @ 0.1%
23 Lin. Ft. 8" V.C.P.
Exist. 8" V.C.P. @ 0.2%
115
2.173%
1%
20%
110
0+23 Exist. Flow In = 112.03 New Flow Out = 112.00
0+00 Flow 8" V.C.P. = 111.50 Flow 4" C.I. = 114.20
0+03.75 Flow 114.24
0+12.50 Flow = 114.33
0+36 New Flow In = 119.03 Exist. Flow Out = 118.63

#10 Contractor will be required to remove the existing fence from the permanent easement and relocate it on the South and west sides of the permanent easement as shown on plans. Contractor to provide the same type of fence or an approved equal if necessary to complete the relocation. All costs for this work are to be included in the lump sum bid item Fence Removed and Relocated.

B.E. Smith
B. E. SMITH, CITY ENGINEER
MAY 20, 1968

Sheet No. 1 of 2

LIFT STATION IN CONN. WITH
DIST. T, SAN. SEWER 20
CITY OF WICHITA, KANSAS
B. E. SMITH, CITY ENGINEER
PROJECT NO. C 28-48
DATE: JULY 1968


Scale 1"=2'
N
40" Chain Link Fnc. on Conc. Ret. Wall
Property Line
Sta 0+23 Gravity Flow Line. Exist. Brick Manhole.
Flow In=112.03
Exist. Frame Shed Pump House with Concrete Floor.
New Flow Out=112.00
Flow @ 2.173%
23 Lin. Ft. 8" V.C.P. Gravity
Flow Out=119.16
Curb & Gutter
Power Pole with Meter for exist. Pump to be reloc.
Remove Conc. Ret. Wall and Chain Link Fnc. on Permanent easement. Repl. Chain Link Fnc. on easement lines.
Brick Pipe Support
Note: Exist. pumps, conc. slab and frame shed to be removed. Pump and motor to be transported to City of Wichita Materials Storage Yard.
10' Perm. Easement
40" Chain Link Fence
10' Perm. Easement
5'0"
4'0"
10'0"
6'0"
3'2"
3'0"
7'0"
Flow In=111.50
Pump Chamber
Sta 0+00 Force Main
Access Tube
4" C.I. Suction
3/4" Bubbler Pipe
12" Elm Tree
A
A
4" C.I. @ 1%
4" C.I. Suction
4" C.I. @ 1%
3'9"
1'0" Min.
11°15' Vert. Bend
22°30' Horz. Bend
1% Grade
Conc. Thrust Block
8'9"
Flow=114.33
4" C.I. @ 20%
20% Grade
Sta 0+00 Gravity Flow Line
Constr. Std. 4'0" Dia. Brick Drop Manhole Type A Wet Well.
Wet Well to be included in Lump Sum Bid Lift Station.
Asphalt Pavement (Conc. Base)
Exist. 8" V.C.P.
Property Line
11.37' Alley
Concrete Pavement
Install 36 Lin. Ft. Mech. Joint Cast Iron Pipe Discharge Line.
New Flow In=119.03
Flow In=118.81
℄ 23rd Street North
Sta 0+36 Force Main Exist. Manhole.
Exist. 8" V.C.P.
Flow In=118.74
Exist. 8" V.C.P.
Flow In=118.84
Flow Out=118.63
Exist. 8" V.C.P.
Pump Chamber
1/2" Exp. Joint around tube
2'0"
Entrance Tube
6" Walk
6" Walk
South Line 23rd St.
6" Conc. Walk Detail
Scale 1"=2'
Weatherhead
Meter Box
3 Pole, 4 Wire, Fused, Weather-Proofed Disconnect Switch as approved by Engineer.
Service Pole (Location to be determined by Field Engineer.)
5'0" Min.
3'0" Min.
4" Cast Iron Mechanical Joint Discharge Pipe.
36" Dia. Entrance Tube
2'0" Min.
Exist. Ground Elev. 124.00±
3"x3"x1/4" Angle Bubbler Line Guard Furnished by Lift Station Supplier.
4'0" Min. to Sump Disch. & Air Bubbler Lines.
Plug
3/4" Air Bubbler Line
Anchor Sump Line to Wet Well max. spac. 5'0".
3/4" Air Bubbler Line.
3/4"x3/4"x1/4" Tee Furnished By Lift Station Supplier.
Wet Well Std. Brick Drop M.H. Type 4.40" Dia.
Elev. Flow In=111.50
High Fluid Level Elev.=110.50
Low Fluid Level Elev.=108.50
Flow=114.20
90° Elbow
Conc. Thrust Block
8'9"±
2-5/8" Anchor Bolts & 3"x3"x1/4" Angle Tie Down. Typical all 4 corners. See detail.
Complete Factory Built Sewage Lift Station (Pumps, motors, and internal fixtures not shown.)
2" Clear
Conc. Pipe support and filler between suction lines.
4" Cast Iron Suction Pipes.
1 1/4" Sump Pump Disch.
8" V.C.P. Gravity Flow In.
1.00
1.75
1'0"
2'0"
2'0"
10"
10"
106.50 Elev.
1'8 5/8" or 1'6"
10"±
3" Tilt Block
Sump
3"
3" Clear
3,000 P.S.I. Concrete 6 Sack Mix.
Grout Under beams to be 6 Sack sand-mix concrete. Space beneath station to be rodded full with conc.
#4 Transverse bars spaced at 12" c-c.
#6 Longitudinal bars spaced at 12" c-c.
SECTION A-A
Scale 1"=2'
2'0"
1'0"
3"x3"x1/4" Angle
8" I-Beam
5/8" Galv. Anchor Bolts
10" Conc. Slab
9"
6"
7"
3"
6"
3" Tilt Block. Rear of Station Only
Tie Down Detail
No Scale

NOTE:
1½" electrical conduit to electrical connection on entrance tube. Conduit to be rigid galv. metallic above grade and rigid non-metallic P.V.C. below grade. Bond metal conduit to neutral at weatherhead.

Sheet No. 2 of 2

LIFT STATION PLAN IN CONNECTION
WITH DIST. T, SAN. SEWER NO. 20
PROJ. NO. C 28-48

9 14 3 Engr-8 wl.f.-1 (50)