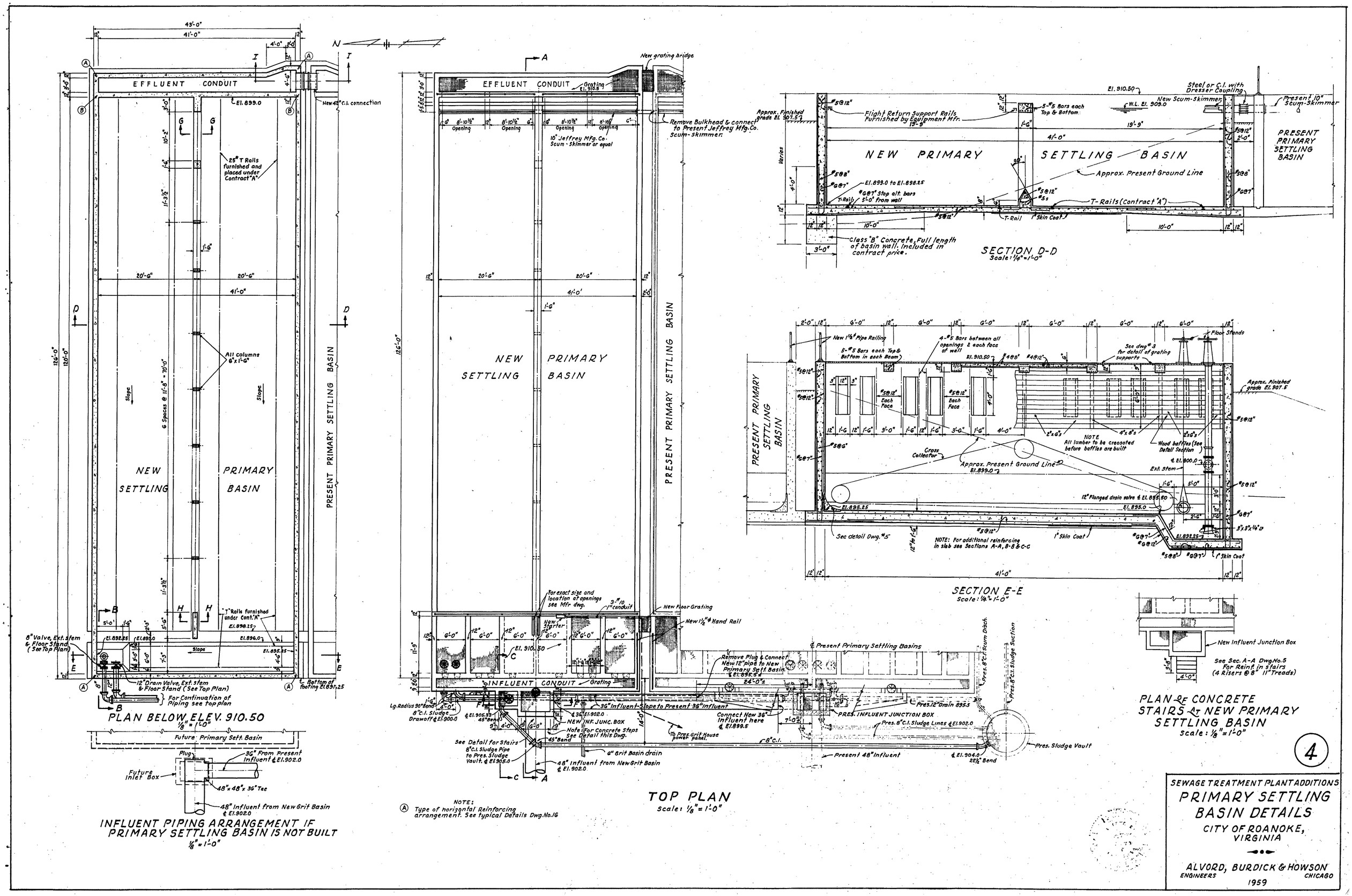
EFFLUENT CONDUIT
El. 899.0
New 42" C.I. connection
25# T Rails furnished and placed under Contract "A"
All columns 6"x1'-6"
NEW SETTLING PRIMARY BASIN
PRESENT PRIMARY SETTLING BASIN
"T" Rails furnished under Cont. "A"
8" Valve, Ext. stem & Floor Stand (See Top Plan)
12" Drain Valve, Ext. stem & Floor Stand (See Top Plan)
For Continuation of Piping see top plan
Bottom of footing El. 891.25
PLAN BELOW ELEV. 910.50
1/8" = 1'-0"
Future Primary Sett. Basin
Plug
36" From Present Influent ℄ El. 902.0
Future Inlet Box
48"x48"x36" Tee
48" Influent from New Grit Basin ℄ El. 902.0
INFLUENT PIPING ARRANGEMENT IF PRIMARY SETTLING BASIN IS NOT BUILT
1/8" = 1'-0"
New grating bridge
Grating El. 910.8
Remove Bulkhead & connect to Present Jeffrey Mfg. Co. Scum-skimmer.
10" Jeffrey Mfg. Co. Scum-Skimmer or equal
Opening
INFLUENT CONDUIT
Grating
New Floor Grating
New 1½" ϕ Hand Rail
New Starter
Remove Plug & Connect New 12" pipe to New Primary Sett. Basin ℄ El. 895.5
36" Influent-Slope to Present 36" Influent
Connect New 36" Influent here ℄ El. 899.5
PRES. INFLUENT JUNCTION BOX
Pres. 8" C.I. Sludge Lines ℄ El. 902.0
Pres. Sludge Vault
Present 48" Influent
NEW INF. JUNC. BOX
Note: For Concrete Steps See Detail this Dwg.
See Detail for Stairs
8" C.I. Sludge Pipe to Pres. Sludge Vault. ℄ El. 905.0
48" Influent from New Grit Basin ℄ El. 902.0
6" Grit Basin drain
To Pres. Grit House power panel.
Lg. Radius 90° Bend
8" C.I. Sludge Drawoff ℄ El. 900.0
NOTE: Type of horizontal Reinforcing arrangement. See typical Details Dwg. No. 16
TOP PLAN
Scale: 1/8" = 1'-0"
Flight Return Support Rails Furnished by Equipment Mfr.
5-#5 Bars each Top & Bottom.
New Scum-Skimmer
Steel or C.I. with Dresser Coupling
Present 10" Scum-Skimmer
Approx. Finished grade El. 907.5
El. 899.0 to El. 898.25
#6@7" Stop alt. bars 5'-0" from wall
T-Rails (Contract "A")
1" Skin Coat
Class "B" Concrete, Full length of basin wall. Included in contract price.
SECTION D-D
Scale: 1/4" = 1'-0"
New 1½" Pipe Railing
5-#5 Bars each Top & Bottom in each Beam
4-#5 Bars between all openings & each face of wall
See dwg. #3 for detail of grating supports
Floor Stands
Each Face
Cross Collector
Approx. Present Ground Line
NOTE All lumber to be creosoted before baffles are built
Wood baffles (See Detail Section)
Ext. Stem
12" Flanged drain valve ℄ El. 895.50
See detail Dwg. #5
NOTE: For additional reinforcing in slab see Sections A-A, B-B & C-C
SECTION E-E
Scale: 1/4" = 1'-0"
New Influent Junction Box
See Sec. A-A Dwg. No. 5 For Reinf. in stairs (4 Risers @ 8" 11" Treads)
PLAN OF CONCRETE STAIRS AT NEW PRIMARY SETTLING BASIN
Scale: 1/8" = 1'-0"
4
SEWAGE TREATMENT PLANT ADDITIONS
PRIMARY SETTLING BASIN DETAILS
CITY OF ROANOKE, VIRGINIA
ALVORD, BURDICK & HOWSON
ENGINEERS
CHICAGO
1959