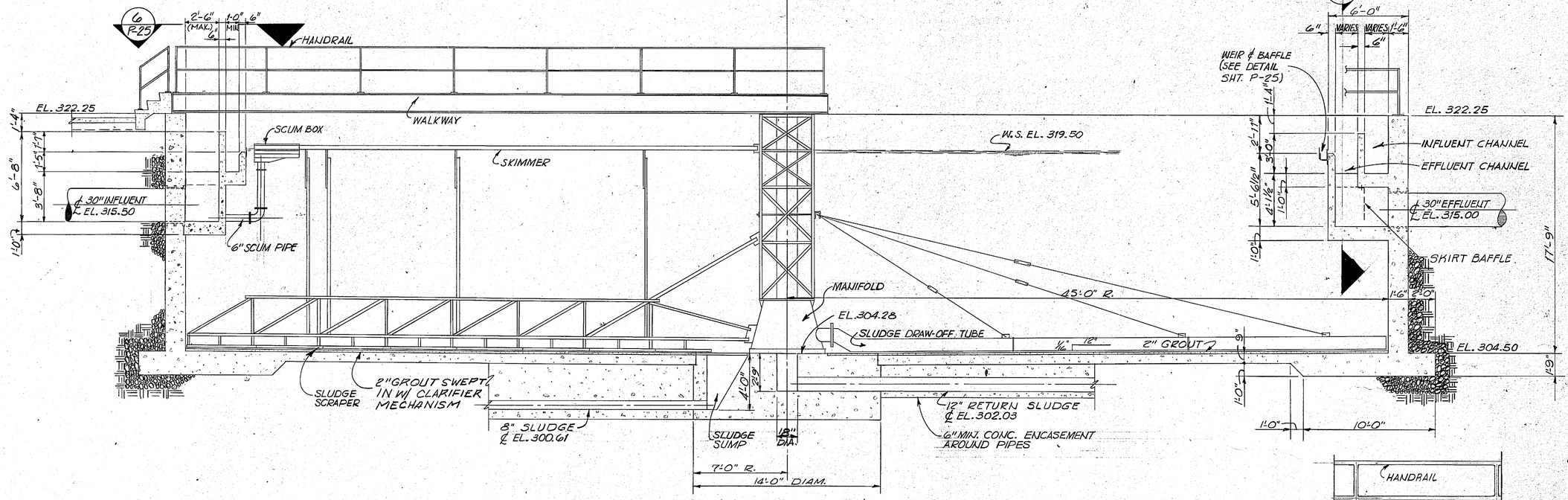
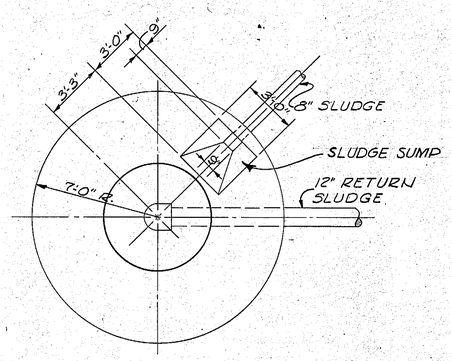
POLYTRACE 033



CLARIFIER PICTORIAL SECTION

SCALE: 1/4" = 1'-0"

NOTE: REFER TO PLAN VIEWS FOR CORRECT LOCATION OF PIPES, WALKWAY, SCUM BOX, ETC.



PLAN SECTION AT EL. 304.28

SCALE: 1/4" = 1'-0"

SECTION

SCALE: 3/8" = 1'-0"

1 P-24

CITY OF TIFTON, GEORGIA
SEWERAGE SYSTEM IMPROVEMENTS
NEW RIVER WATER POLLUTION CONTROL PLANT
CLARIFIERS
PROCESS SECTIONS

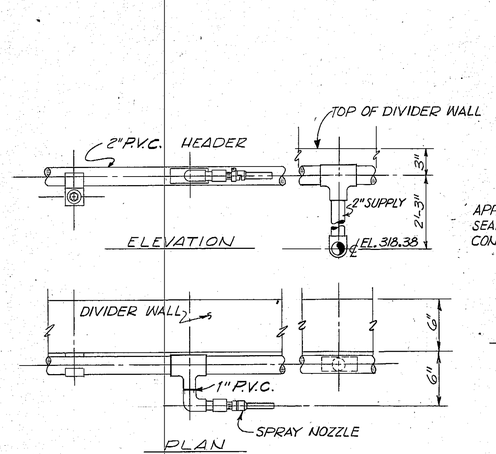
JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

GEORGIA REGISTERED No. 3708 No. 4308 No. 5100 PROFESSIONAL ENGINEER JORDAN, JONES & GOULDING, INC.

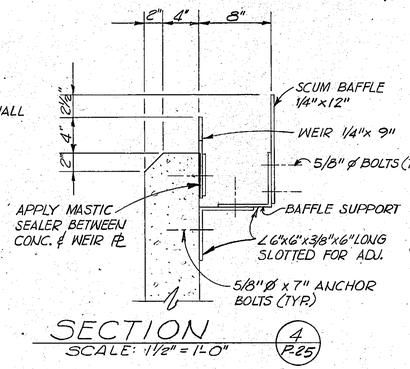
DATE: JULY 1978
SCALE: AS SHOWN

SHEET P-24 OF 134

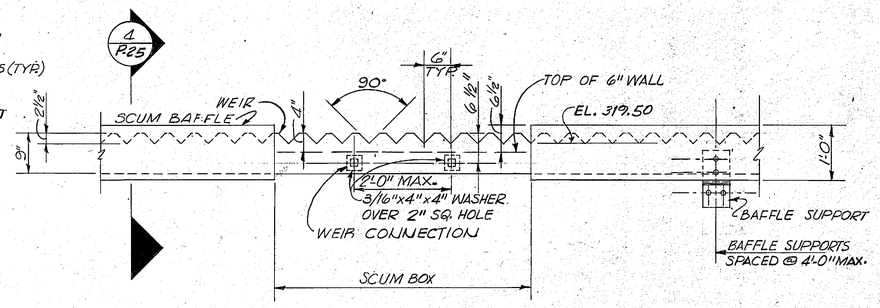
POLYTRACE 033



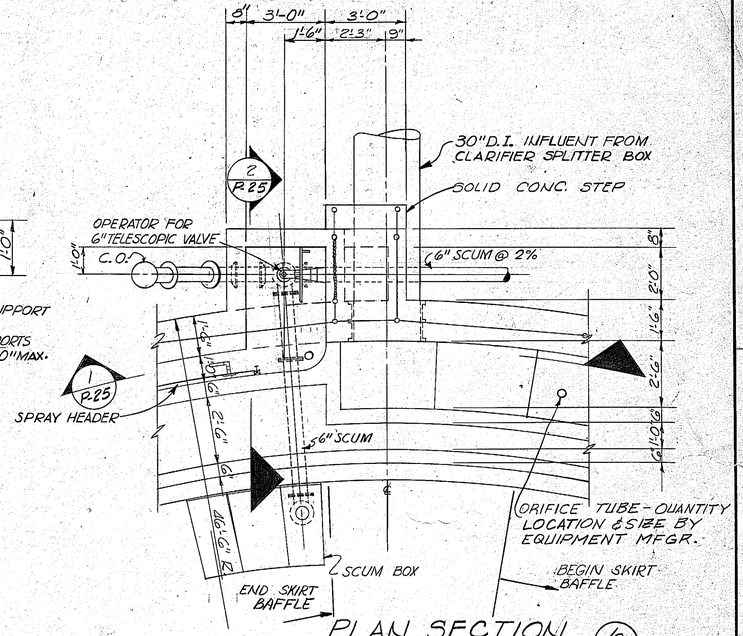
DETAIL (A P-25)
SCALE: 1½"=1'-0"



SECTION
SCALE: 1½"=1'-0" (4 P-25)

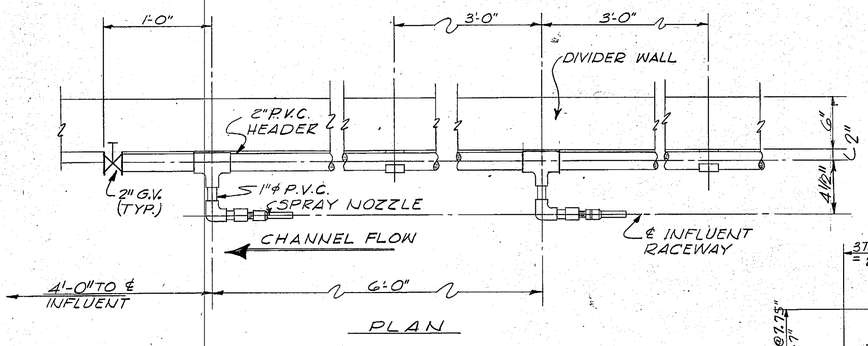


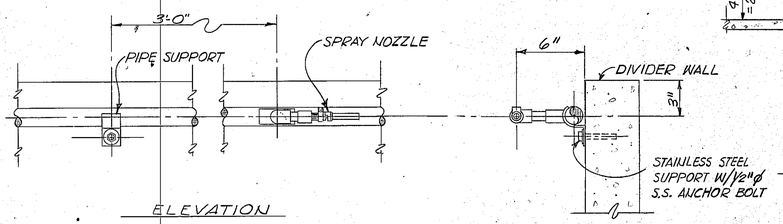
CLARIFIER WEIR & BAFFLE DETAILS
N.T.S.



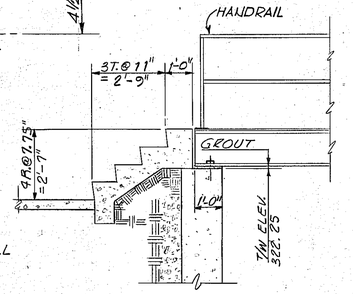
PLAN SECTION (6 P-25)
SCALE: 3/8"=1'-0"

PARTIAL PLAN @ CLARIFIER INFLUENT

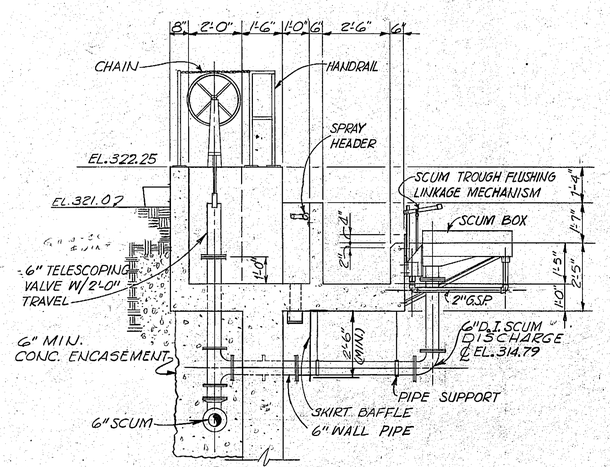




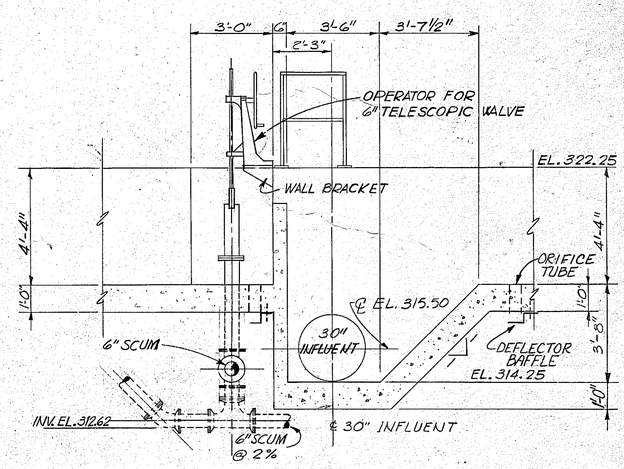
DETAIL (B P-25)
SCALE: 1½"=1'-0"



SECTION
SCALE: 3/8"=1'-0" (5 P-25)

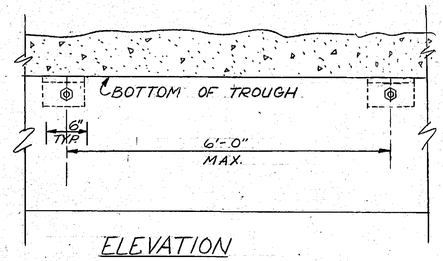


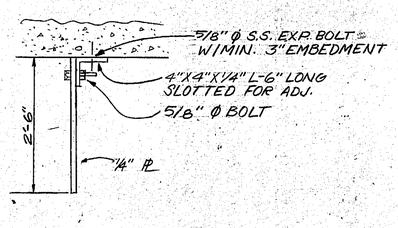
SECTION
SCALE: 3/8"=1'-0" (2 P-25)



SECTION
SCALE: 3/8"=1'-0" (1 P-25)

SPRAY PIPING DETAILS





SKIRT BAFFLE DETAILS
SCALE: ¾"=1'-0"

CITY OF TIFTON, GEORGIA
SEWERAGE SYSTEM IMPROVEMENTS

NEW RIVER WATER POLLUTION CONTROL PLANT
CLARIFIERS
PROCESS SECTIONS & DETAILS

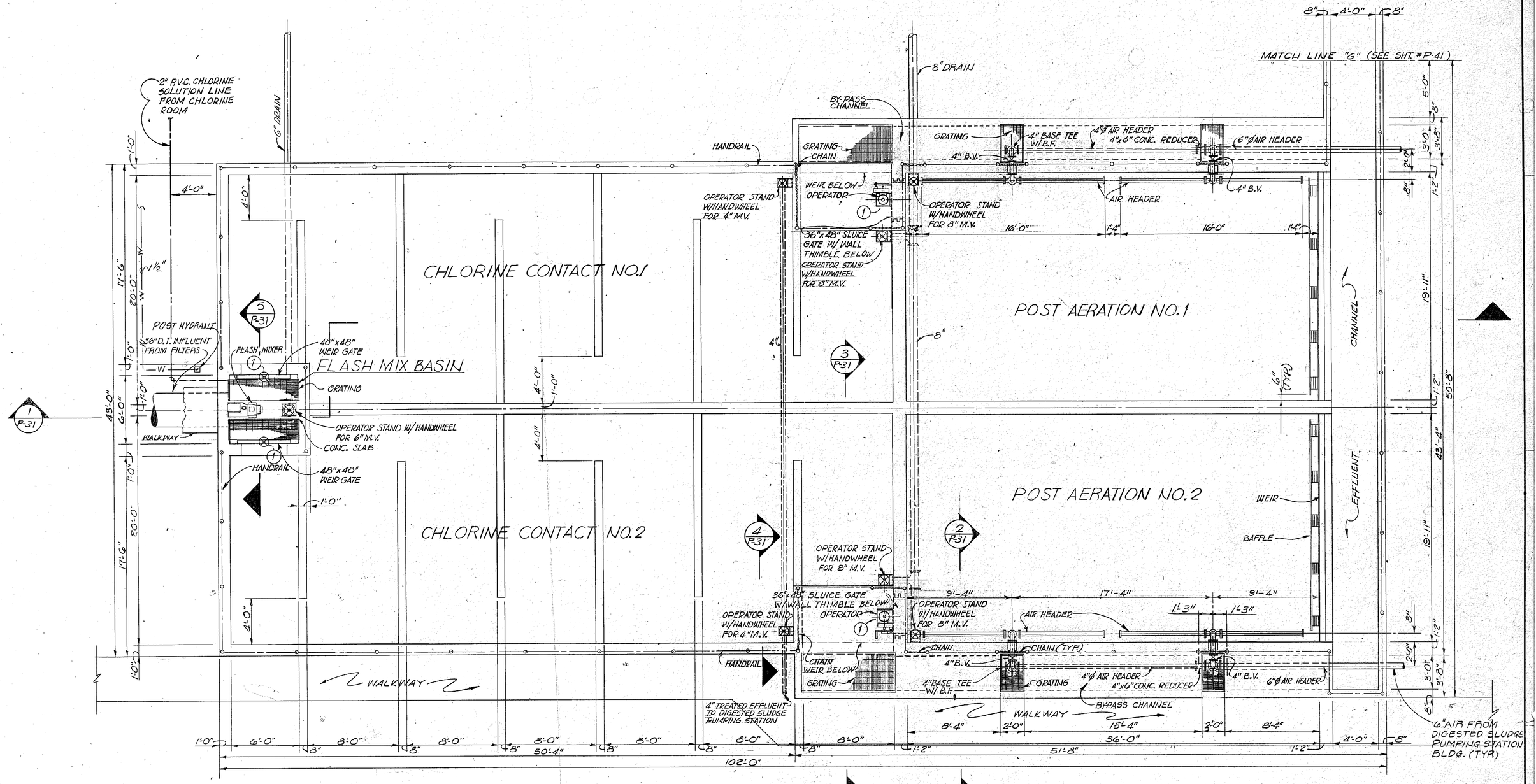
JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

GEORGIA REGISTERED No. 4308 No. 5100 PROFESSIONAL ENGINEER JORDAN, JONES & GOULDING, INC.

DATE: JULY 1978
SCALE: AS SHOWN

SHEET P-25 OF 134

POLYTRACE 033



TOP PLAN

SCALE: 1/4" = 1'-0"

CITY OF TIFTON, GEORGIA

SEWERAGE SYSTEM IMPROVEMENTS

NEW RIVER WATER POLLUTION CONTROL PLANT

CHLORINE CONTACT AND POST AERATION PROCESS TOP PLAN

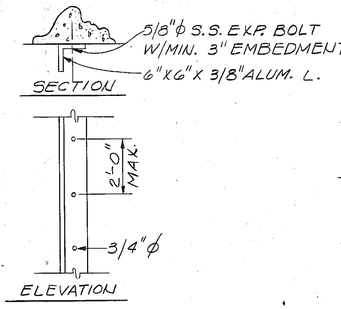
JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

GEORGIA REGISTERED No. 4308 No. 5100 PROFESSIONAL ENGINEER JORDAN, JONES & GOULDING, INC.

DATE: JULY 1978
SCALE: AS SHOWN

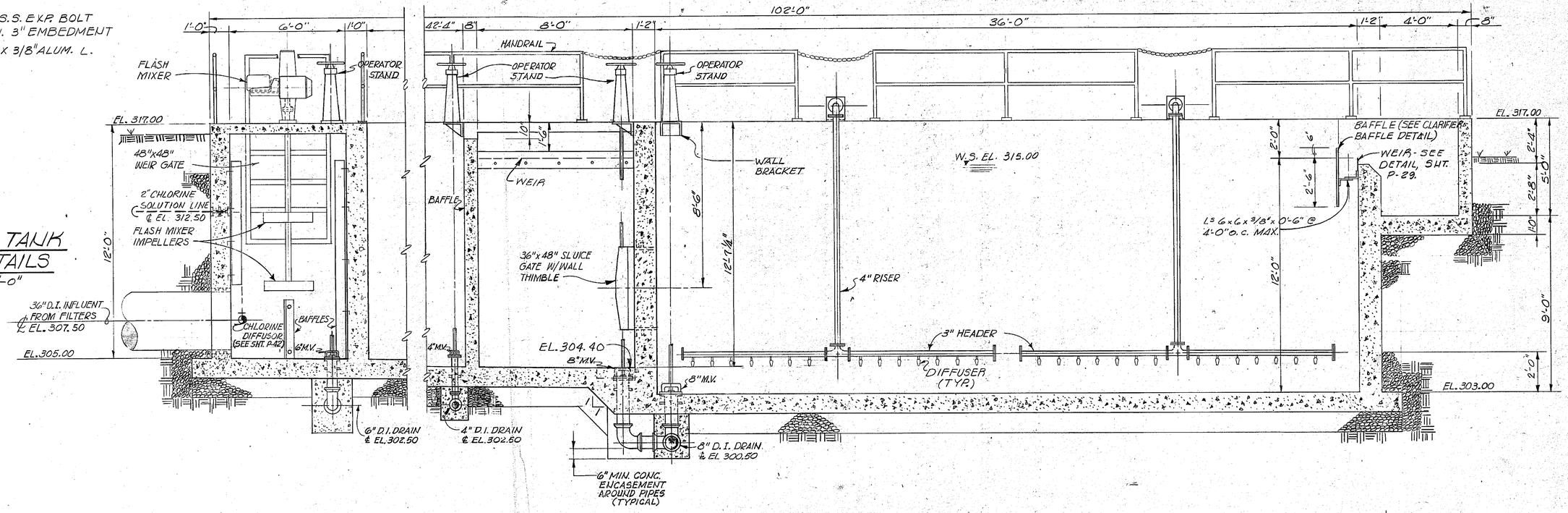
SHEET P-30 OF 134

E' POLYTRACE' 033

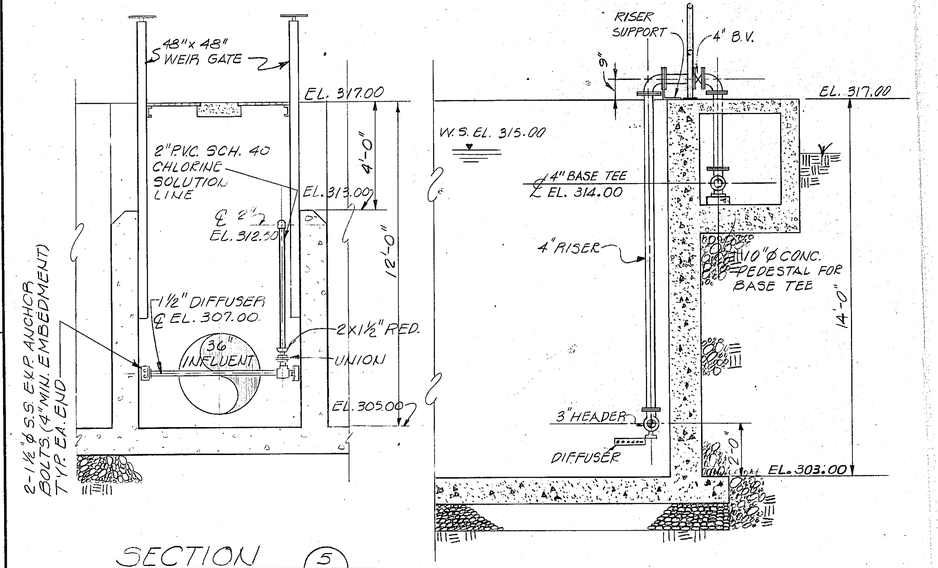


FLASH MIX TANK BAFFLE DETAILS

SCALE: 3/4"=1'-0"

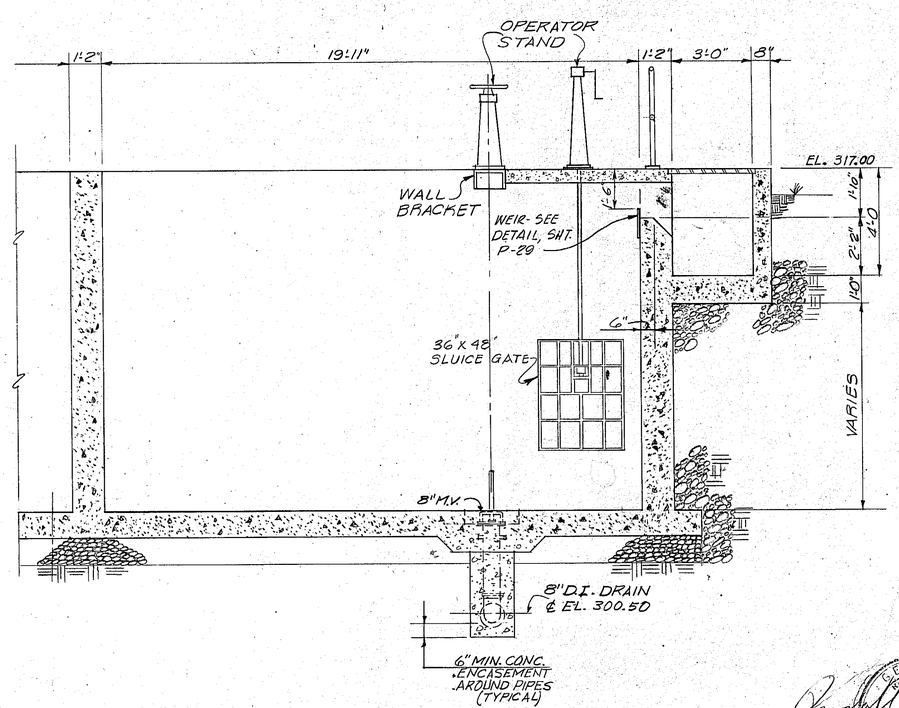


SECTION (1) P-31
SCALE: 3/8"=1'-0"

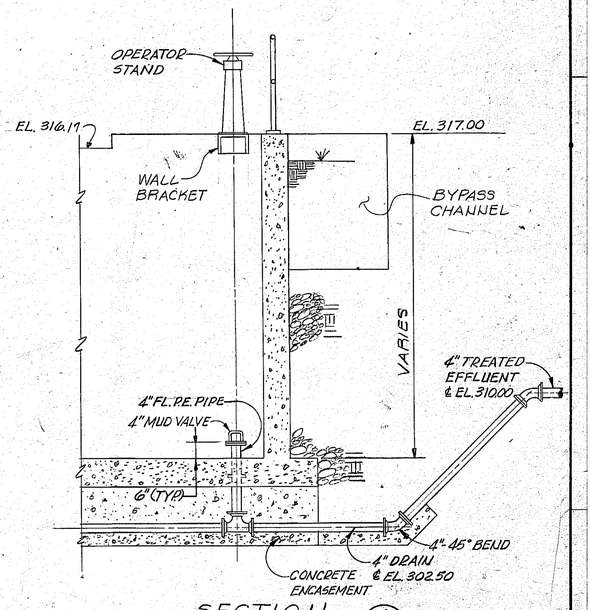


SECTION (5) P-31
SCALE: 3/8"=1'-0"

SECTION (2) P-31
SCALE: 3/8"=1'-0"



SECTION (3) P-31
SCALE: 3/8"=1'-0"



SECTION (4) P-31
SCALE: 3/8"=1'-0"

GEORGIA
No. 5100 PROFESSIONAL ENGINEER
JORDAN, JONES & GOULDING, INC.

CITY OF TIFTON, GEORGIA

SEWERAGE SYSTEM IMPROVEMENTS

NEW RIVER WATER POLLUTION CONTROL PLANT

CHLORINE CONTACT AND POST AERATION

PROCESS SECTIONS

JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

DATE: JULY 1978
SCALE: AS SHOWN

SHEET P-31 OF 134

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LEGEND (THIS SHEET ONLY)

a - PULL 3 #8 & 1 #10(G) - 1½"C.

b - PULL 3 #4 & 1 #10(G) - 1¼"C.

c - RUN ALL CONDUIT TO NEAREST PULLBOX IN DIRECTION OF HOMERUN ARROWS UNLESS UNLESS OTHERWISE NOTED.

d - PULL 3 #12 & 1 #12(G) IN 3/4"C.

e - JUNCTION BOX RECEIVES CONDUCTORS FROM A DUPLEX RECEPTACLE, A SAFE-RUN SWITCH - 2 #14 & 3 #12 - 3/4"C. SEE DETAIL D6 SHEET. THE RECEPTACLE CKT # IS SHOWN.

f - JUNCTION BOX RECEIVES CONDUCTOR FROM SAFE-RUN SWITCH, RECEPTACLE, & TORQUE SWITCH. 4 #14 & 3 #12 - 3/4"C. JUNCTION BOX CONFIGURATION IS THE SAME AS FOR AERATION MOTORS (DETAIL D6) EXCEPT IT IS MOUNTED ON HAND RAIL.

g - PUSHBUTTON STATION TO CONTROL FLUSHING WATER PUMP IN DIGESTED SLUDGE PUMPING STATION.

h - SIGNAL FROM KILOWATT TRANSDUCER

i - NOT USED

j - SUPPLY JUNCTION BOX FOR SAFE-RUN SWITCH & MOTOR CONDUCTORS. RUN 3 #14 & MOTOR CONDUCTORS BACK TO MCC. SEE DETAIL D14.

k - SEE BUILDING PLAN FOR CONTINUATION OF INTERCOM.

l - CONNECT TO POLE MOUNTED PAGING SPEAKER (SEE SPECS.)

m - CONCEAL IN BRIDGE STRUCTURE, THEN UNDER GRADE TO MANHOLE.

n - SEE PULLING STATION DETAIL, SHEET E6

o - 1-3"C. - CONTROL, 1-3"C-POWER, 2-3"C-SPARES, 3-2" C-MOTOR CONDUCTORS, 1-2"C SPARE.

p - 1-3"C - CONTROL, 1-3"C - POWER, 2-3"C - SPARES, 1-3"C - FEEDERS FOR MCCC, 1-2"C - MOTOR CONDUCTORS, 1-2 "C - INSTRUMENTATION.

q - 1-3"C - CONTROL, 1-3" C - POWER, 2 - 3" C - SPARES, 1-3"C - FEEDERS FOR MCCC, 3-2"C - MOTOR CONDUCTORS, 1-2"C INSTRUMENTATION.

r - 1-3"C - CONTROL, 1-3"C POWER, 2-3"C SPARES, 1-3"C - FEEDER FOR MCCB, 8-2"C - MOTOR CONDUCTORS, 1-2"C - INSTRUMENTATION.

s - 1-3"C - CONTROL, 3-3" C SPARES, 1-3"C - FEEDER FOR MCCB, 1-2"C - INSTRUMENTATION.

t - 1-3"C - CONTROL, 1-3"C - POWER, 2-3"C - SPARES, 1-2"C INSTRUMENTATION, 4-2"C - MOTOR CONDUCTORS

u - CONTROLS SLUDGE DISPOSAL PUMPS TO FILL TRUCKS LOCALLY.

v - CONNECT ALL FLOODLIGHTS TO BALANCE PHASES

w - PULL 3 #8 & 1 # 10 (G) - 1"C.

(Z) - TWO TWISTED SHIELDED PAIR FOR INSTRUMENTATION - 3/4"C.

y - 8 #12 - 3/4" C FOR CONTROL WIRING. FOR LIME FEED (VALVE) CONTROL.

CONTINUED

LEGEND (CONTINUED)

(Z) PULL A TWISTED PAIR TO EACH PH TRANSMITTER

aa - PULL 3 #12 TO SERVE PH TRANSMITTERS

bb - CONNECT TO HEAT TRACE TAPE ON LIME SLURRY PIPE.

cc - USE CARLON PULL BOX # 3048B WITH BOX COVER & EXTENSION. SEE DETAIL D12 FOR OTHER PULL STATIONS.

shielded cable

SLUDGE HOLDING TANK

SITE PLAN

POST AERATION
CHLORINE CONTACT TANK
FILTERS
CONTROL PANEL
MAINTENANCE STORAGE BUILDING
SEE RISER DIAGRAM
THICKENER
CLARIFIER NO. 3
CLARIFIER NO. 2
CLARIFIER NO. 1
SLUDGE PUMPING STATION
SCUM PUMP STATION
CONTROL BUILDING
TREATED EFFLUENT PUMP CONTROL STATION
DIGESTED SLUDGE PUMP STATION
AEROBIC DIGESTER
AERATION BASIN NO. 2
AERATION BASIN NO. 1
UTILITY CO. SERVICE TRANSFORMER
GRIT REMOVAL
LIME SYSTEM CONTROL PANEL
LIME BIN
BAR SCREEN
2 SETS OF 4#4 10 & 2#2(G)
INFLUENT SAMPLER
INFLUENT PUMPING STATION
TO EFFLUENT SAMPLER
TO INFLUENT SAMPLER
PRIMARY BY UTILITY. CONTRACTOR SHALL PROVIDE TRENCH AND (2) 4" DUCTS UNDER ROADWAY. SEE SPECIFICATIONS.

IN SPACE PROVIDED IN PUMPING STATION CONTROL PANELS, INSTALL AND CONNECT FSK TRANSMITTERS TO MODULATE & TRANSMIT ALARMS TO MAIN PLANT.

GUM CREEK PUMPING STATION — FSK
SOUTHSIDE PUMPING STATION — FSK
MOUNT IN SPACE PROVIDED IN EXISTING CONTROL PANELS
LEASED LINE BY TELEPHONE CO.
TO CONTROL BUILDING

PLANT MAGNETIC N

GEORGIA REGISTERED No. 9419 PROFESSIONAL ENGINEER CHARLES W. JAGER

NEWMAN, HIBBLE & PETERS, INC.
ATLANTA, GEORGIA

CITY OF TIFTON, GEORGIA
SEWERAGE SYSTEM IMPROVEMENTS

NEW RIVER WATER POLLUTION CONTROL PLANT

SITE PLAN

JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

DATE: JULY 1976
SCALE: 1"=40'

SHEET E-2 OF 134

77124

NOTES

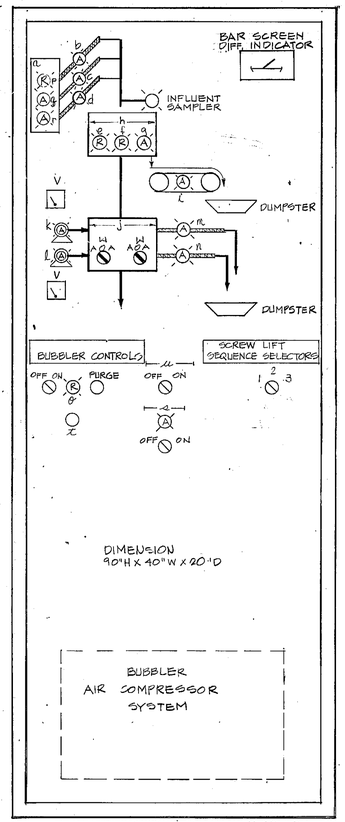
a- PROVIDE CURRENT TRANSFORMER AND INSTALL AMMETER FOR EACH POST AERATION BLOWER AND GRIT BLOWER. AMMETER TO BE SCALED IN CFM AND AMPS. COORDINATE WITH BLOWER MANUFACTURER.

b- PROVIDE AND MOUNT ELAPSED TIME METER IN STARTER UNIT.

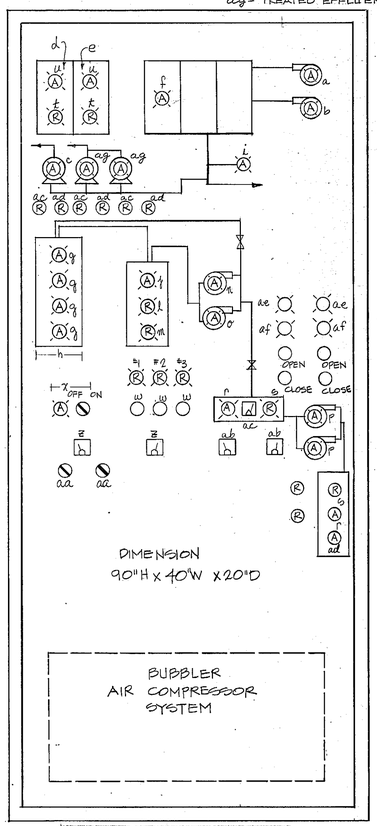
c- MOTORS C1 & C2 ARE EDDY CURRENT CLUTCH TYPE VARIBLE SPEED MOTORS. PROVIDE SPACE ONLY FOR C4.

ENGRAVING SCHEDULE PANEL - CPC

a - POST AERATION BLOWER #1
b - POST AERATION BLOWER #2
c - FLUSHING PUMPS
d - FILTER #1 TRAVELING BRIDGE
e - FILTER #2 TRAVELING BRIDGE
f - FLASH MIXER
g - AERATION BLOWER ON
h - AEROBIC DIGESTER
i - SAMPLER ON
j - THICKENER DRIVE ON
k - THICKENER
l - OVER TORQUE
m - HIGH TORQUE ALARM
n - SLUDGE RECIRCULATION PUMP #1 ON
o - SLUDGE RECIRCULATION PUMP #2 ON
p - SLUDGE TO STORAGE PUMP ON
q - SLUDGE STORAGE
r - FULL
s - HIGH LEVEL ALARM
t - COMMON ALARM
u - ON
v - FLUSHING PUMP HIGH DISCHARGE PRESSURE ALARM
w - RESET
x - CONTROL POWER
y - DIGESTER SLUDGE PUMPS
z - SPEED
aa - SPEED ADJUSTMENT
ab - SEE NOTE "a"
ac - SLUDGE STORAGE LEVEL INDICATOR
ad - LOW LEVEL
ae - HIGH PRESSURE SHUT PUSH TO RESET
ad - HIGH TEMPERATURE SHUT POWER PUSH TO RESET
ae - VALVE OPEN
af - VALVE CLOSE
ag - TREATED EFFLUENT PUMP



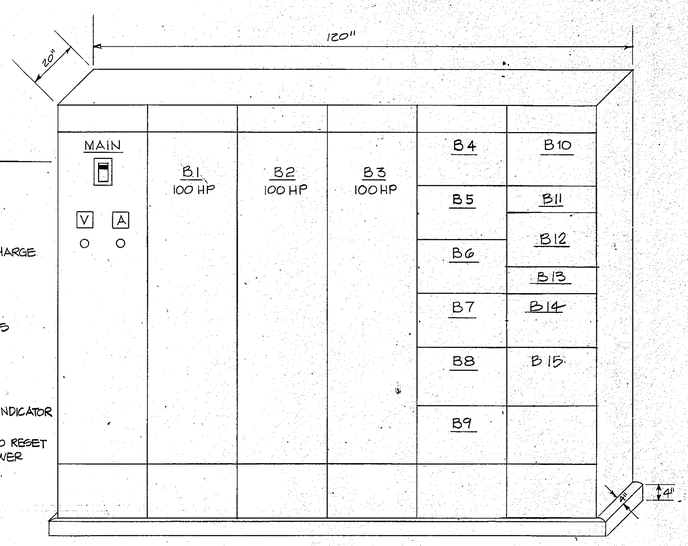
CONTROL PANEL - CPB



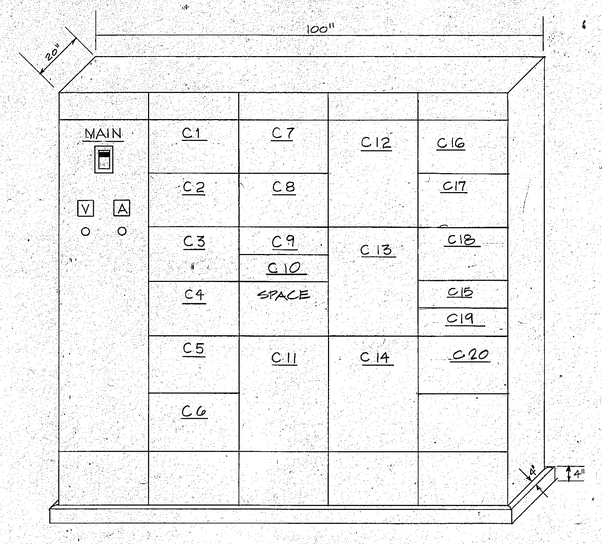
CONTROL PANEL - CPC

ENGRAVING SCHEDULE - PANEL CPB

a - INFLUENT WET WELL
b - SCREW LIFT PUMP #1 - ON
c - SCREW LIFT PUMP #2 - ON
d - SCREW LIFT PUMP #3 ON
e - HIGH DIFFERENTIAL ALARM
f - SHEAR PIN ALARM
g - ON
h - BAR SCREEN
i - CONVEYOR ON
j - GRIT REMOVAL CHAMBER
k - GRIT BLOWER #1 ON
l - GRIT BLOWER #2 ON
m - GRIT WASHER CONVEYOR #1 ON
n - GRIT WASHER CONVEYOR #2 ON
o - LOW PRESSURE ALARM
p - HIGH LEVEL ALARM
q - MID LEVEL
r - LOW LEVEL
s - CONTROL POWER
t - LOW PRESSURE RESET
u - BAR SCREEN TIMER
V - SEE NOTE a
w - HAND-OFF-AUTO SWITCH FOR GRIT PUMP SOLENOID VALVE



MCCB



MCCC

MCC-B (INFLUENT PUMP STATION)

MAIN: 400 A / 480V / 3Φ / 3W THERMAL-MAGNETIC MOLDED CASE CIRCUIT BREAKER, LIGHTNING & SURGE PROTECTION

BUS BARS RATINGS: 600 A, MAIN HORIZONTAL BUS; 300A, VERTICAL BUSSES; BUS BARS BRACED FOR 22000 A. SYMMETRICAL SHORT CIRCUIT CURRENT

EACH STARTER SHALL HAVE HAND-OFF-AUTO SWITCH.

CKT NO.	EQUIPMENT SERVED	H.P.	NEMA STARTER	CIRCUIT BREAKER MOTOR CIR. PROT. TRIP SETTING	CIRCUIT BREAKER THERM-MAG	REMARKS
B1	SCREW LIFT #1	100	4RVNR	150/868		REDUCED VOLTAGE AUTO TRANSFORMER SEE NOTE b
B2	SCREW LIFT #2	100	4RVNR	150/868		REDUCED VOLTAGE AUTO TRANSFORMER SEE NOTE b
B3	SCREW LIFT #3	100	4RVNR	150/868		REDUCED VOLTAGE AUTO TRANSFORMER SEE NOTE b
B4	BAR SCREEN HOIST	1	1 FVNR	3/13		
B5	BAR SCREEN	1	1FVNR	3/13		
B6	BAR SCREEN CONVEYOR	1	1FVNR	3/13		
B7	GRIT WASHER #1	1	1 FVNR	3/13		
B8	GRIT COLLECTOR BLOWER #1	10	1FVNR	30/96		SEE NOTE a.
B9	GRIT COLLECTOR BLOWER #2	10	1 FVNR	30/98		SEE NOTE a.
B10	GRIT WASHER #2	1	1FVNR	3/13		
B11	LIGHTING C.B.	15 KVA			20	
B12	E.F. 7	3	1FVNR	15/34		
B13	HEATER	10 KW			20/3Φ	10 KW HEATER
B14	SAMPLER PUMP	2	1FVNR	7/24		SEE NOTE b
B15	SAMPLER PUMP	2	1FVNR	7/24		SEE NOTE b
B16	LIME SYSTEM CONTROL PANEL	10 HP + 15 KW	—		40	LIME SLAKER SLURRY MIXER VIBRATOR & CHEM. FEEDERS

MCC-C (DIGESTER SLUDGE PUMPING STATION)

MAIN: 400 AMP/480V/3Φ/3W THERMAL-MAGNETIC CIRCUIT BREAKER, LIGHTNING & SURGE PROTECTION

BUS BARS RATINGS: 600 A, MAIN HORIZONTAL BUS; 300A, VERTICAL BUSSES; BUS BARS BRACED FOR 22000 A. SYMMETRICAL SHORT CIRCUIT CURRENT

EACH STARTER SHALL HAVE A HAND-OFF-AUTO SWITCH.

CKT NO.	EQUIPMENT SERVED	H.P.	NEMA STARTER	CIRCUIT BREAKER MOTOR CIR. PROT. TRIP SETTING	CIRCUIT BREAKER THERM-MAG	REMARKS
C1+C2	SLUDGE RECIRCULATION & TRANSFER PUMPS 1 & 2	2X7.5	4X1FVNR	15/77		C1-C2 V.S. EDDY CURRENT DRIVE
C5	THICKENER DRIVE	1	1 FVNR	3/13		
C6	POST AERATION BLOWER #1	25	2 FVNR	50/138		SEE NOTE a
C7	POST AERATION BLOWER # 2	25	2 FVNR	50/138		SEE NOTE a
C8	FLASH MIXER	5	1 FVNR	15/53		ON-OFF COLLECTOR SWITCH
C9	FILTER TRAVELING BRIDGE #1	7.5			20 AMP	
C10	FILTER TRAVELING BRIDGE #2	7.5			20 AMP	
C11 C14	AEROBIC DIGESTER AERATORS #1-4	4X30	4X3FVNR	50/280		
C15	LIGHTING C.B.	15 KVA			20 AMP	
C16	FLUSHING PUMP	7.5	1 FVNR	15/77		
C19	UNIT HEATER	10 KW			20/3Φ	10 KW HEATER
C20	E.F.	1	1 FVNR	3/13		
C3-C4	SLUDGE DISPOSAL PUMPS	2X25	2X 2FVNR	50/288		
C17-C18	TREATED EFFLUENT PUMPS	2X 7.5	2X 1FVNR	15/77		

CONTINUATION ON E-4

GEORGIA REGISTERED No. 9419 PROFESSIONAL ENGINEER CHARLES W. NEER

NEWMAN, HIGGLE & PETERS, INC.
ATLANTA, GEORGIA

CITY OF TIFTON, GEORGIA
SEWERAGE SYSTEM IMPROVEMENTS

NEW RIVER WATER POLLUTION CONTROL PLANT

MCCB, MCCC, CPB & CPC

JJ&G JORDAN, JONES & GOULDING, INC.
CONSULTING ENGINEERS
ATLANTA, GEORGIA

DATE: JULY 1978
SCALE: NONE

SHEET E-5 OF 134