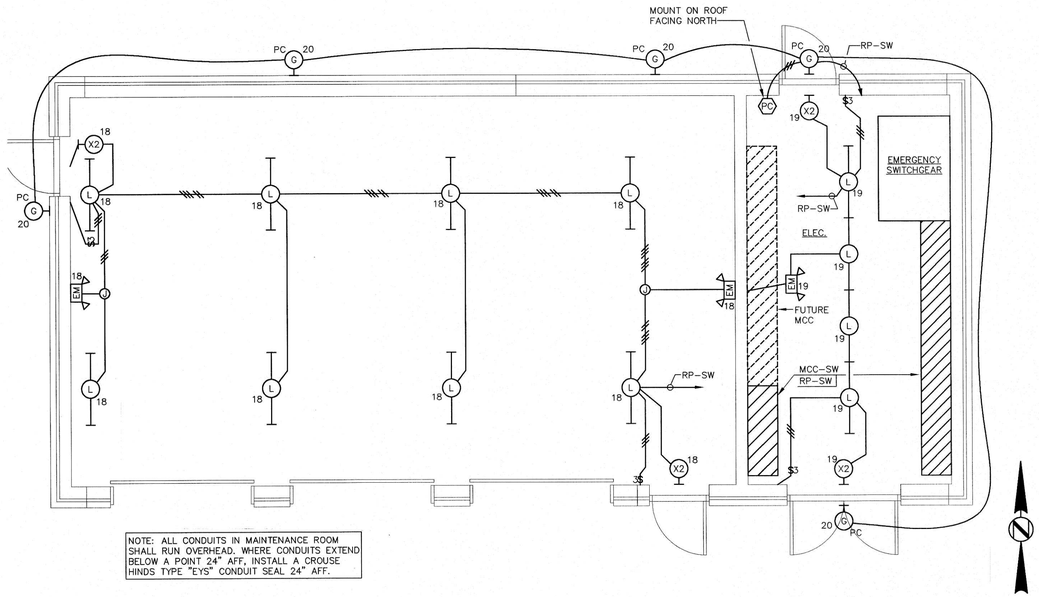
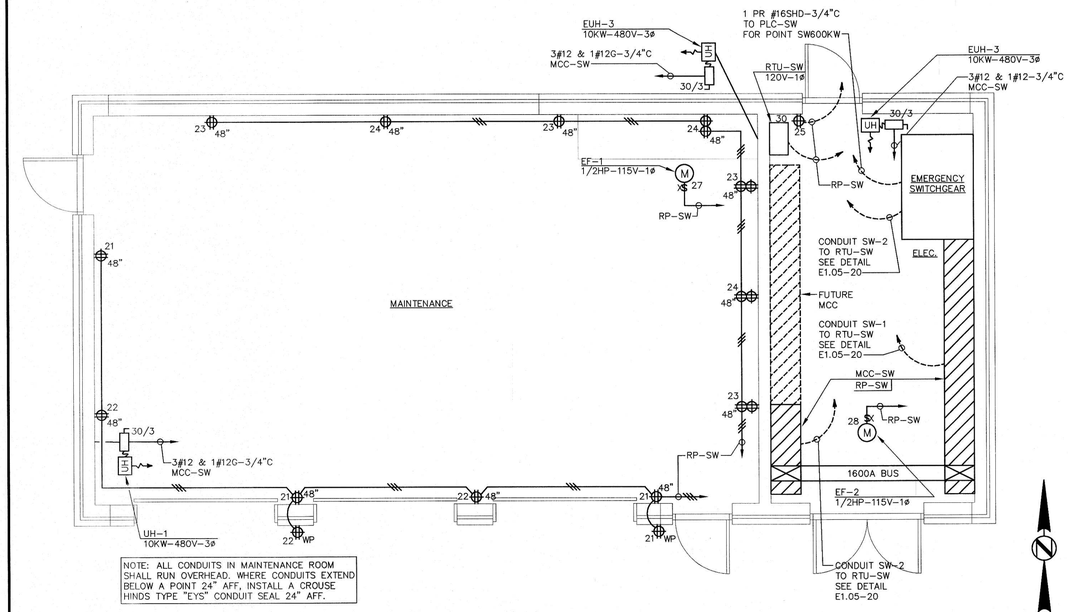


15 MAINTENANCE BUILDING LIGHTING PLAN

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

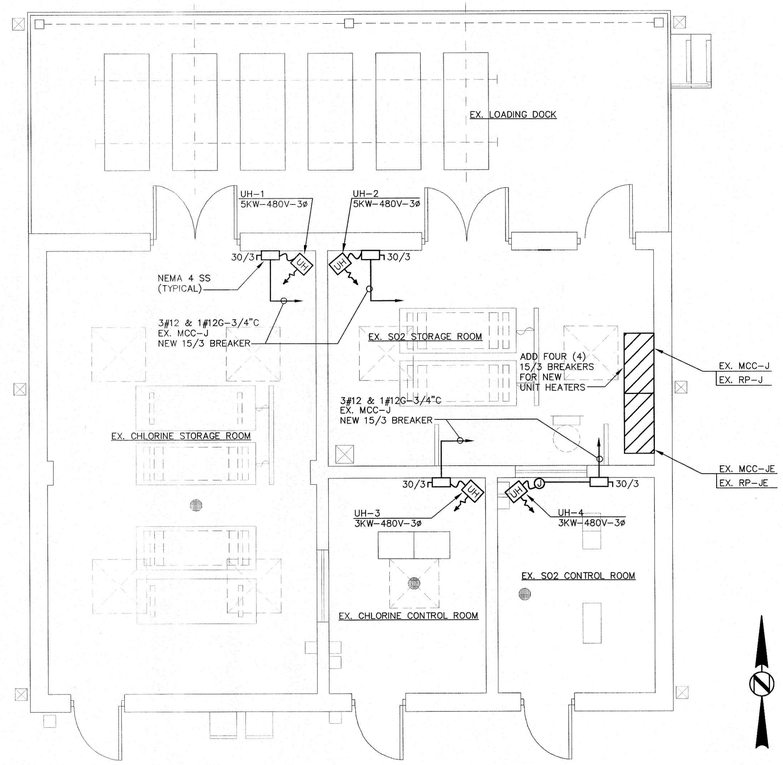


13 MAINTENANCE BUILDING POWER PLAN

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

05 ELECTRICAL ROOM-ALTERNATE ARRANGEMENT

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



JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

03 CHLORINE/SO2 BUILDING ELECTRICAL PLAN

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

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

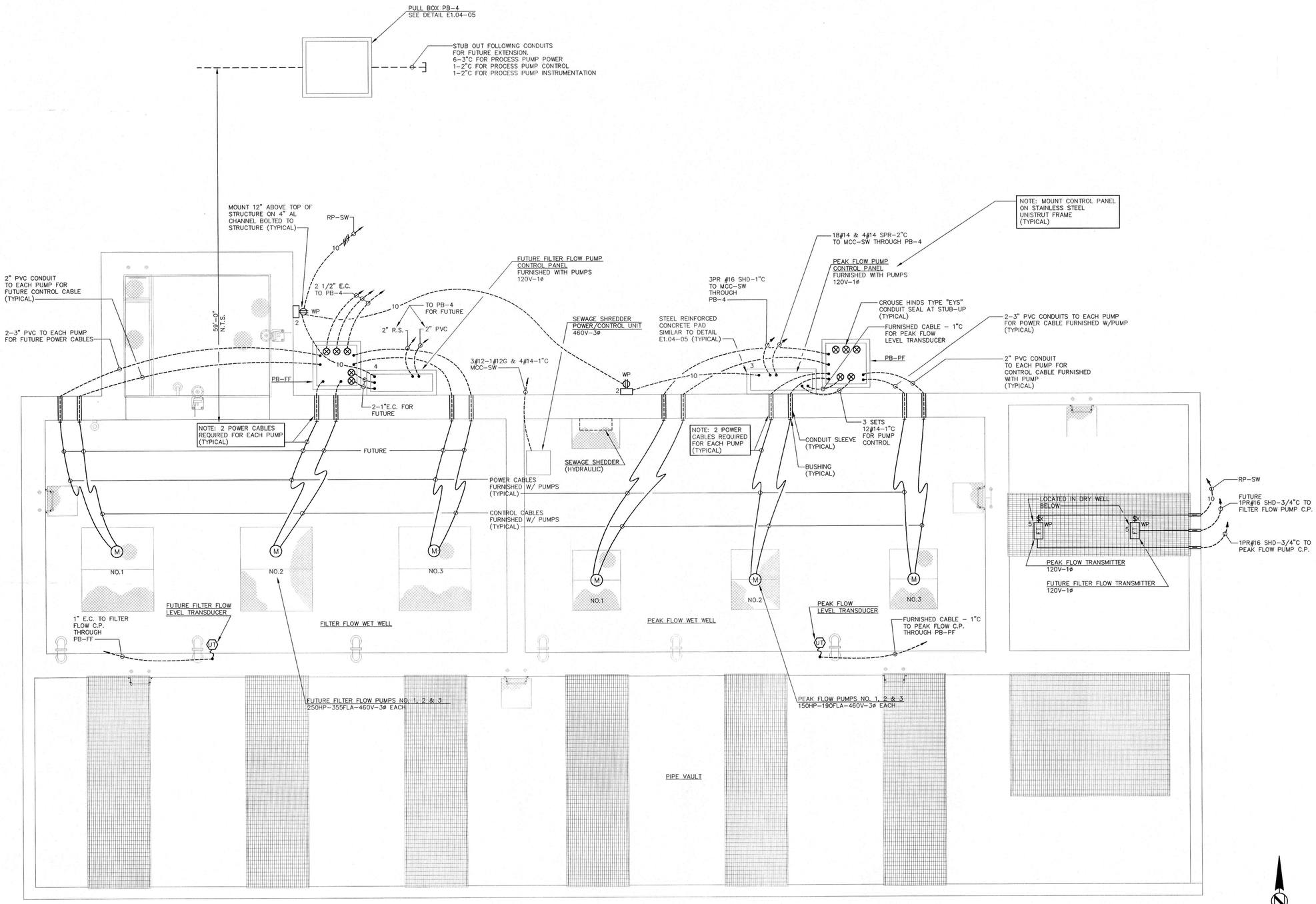
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
MAINTENANCE AND CHLORINE/SO2 BUILDING ELECTRICAL PLANS

SHEET NO.
E8.01

SEQUENCE 84 OF 84



JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

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

01 PEAK FLOW PUMP STATION ELECTRICAL PLAN

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALABAMA · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

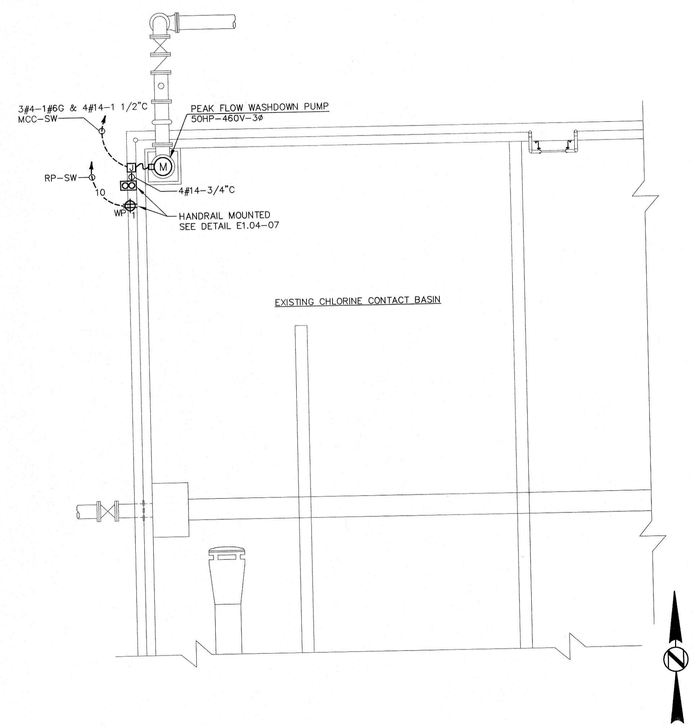
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
PEAK FLOW PUMP STATION ELECTRICAL PLAN

SHEET NO.
E6.02

SEQUENCE 83 OF 84



JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

03 PEAK FLOW WASHDOWN PUMP ELECTRICAL PLAN

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

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL
NO. 11357
ENGINEER
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

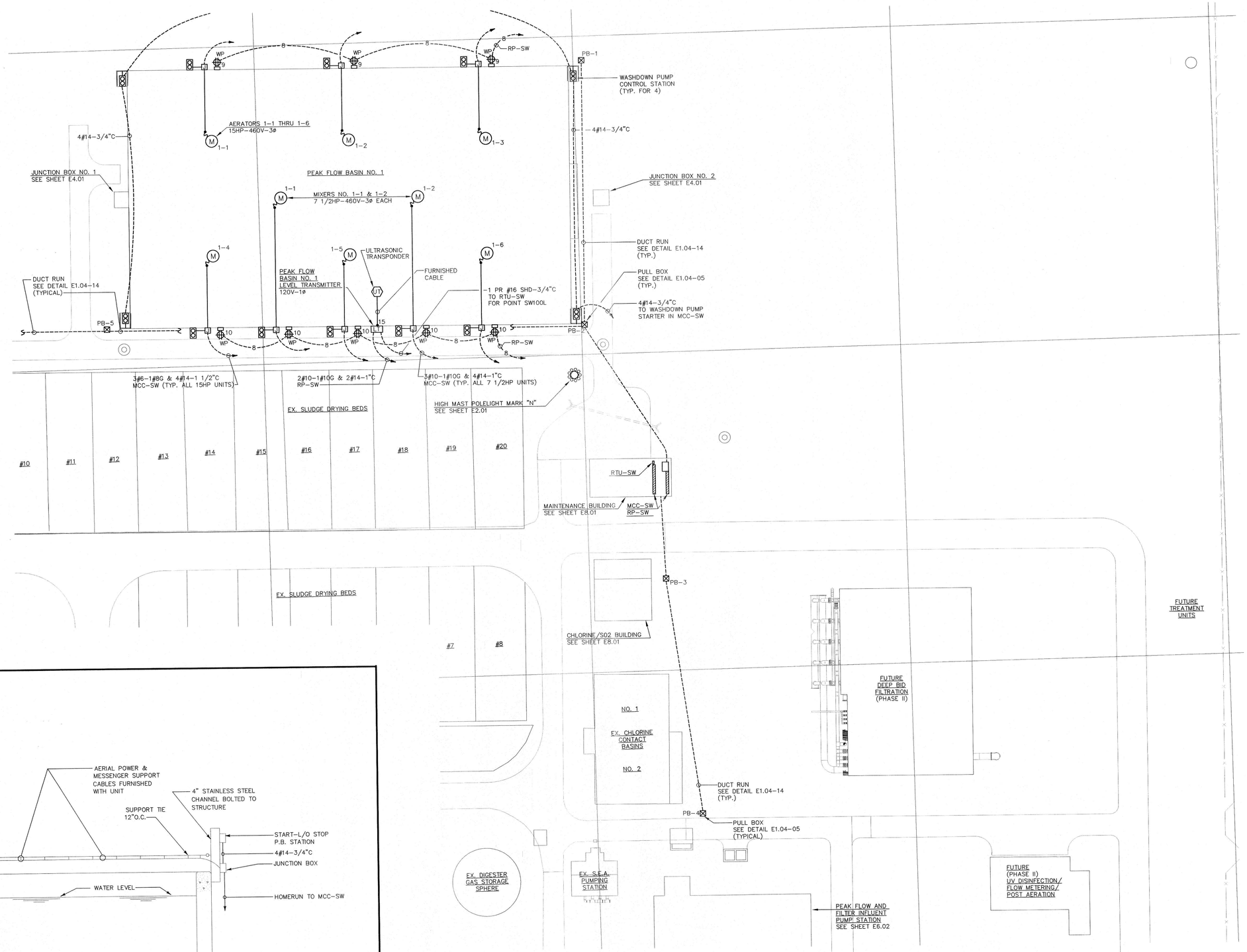
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

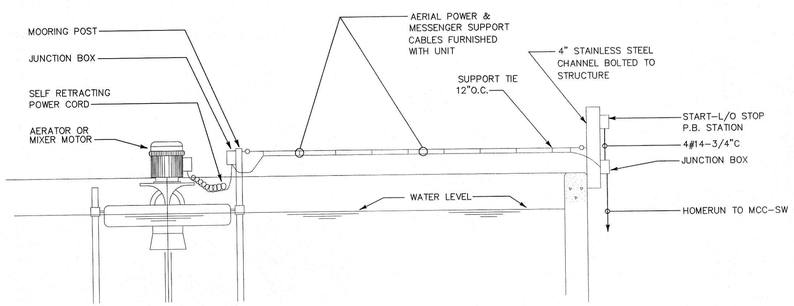
RECORD DRAWING

SHEET TITLE
WASHDOWN PUMP ELECTRICAL PLAN

SHEET NO.
E6.01

SEQUENCE 82 OF 84





05 PEAK FLOW BASIN AERATOR/MIXER CONNECTIONS SCALE : NONE

03 PEAK FLOW BASIN ELECTRICAL PLAN SCALE : 1" = 30'-0'

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL
NO. 11357
ENGINEER
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

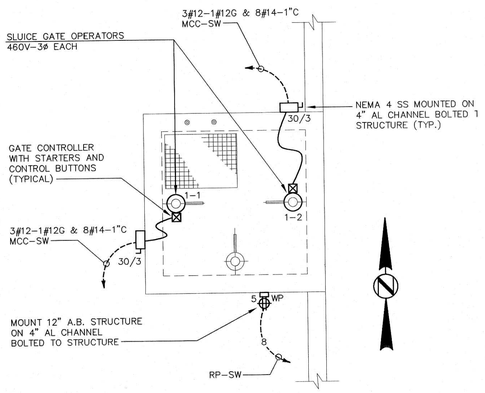
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

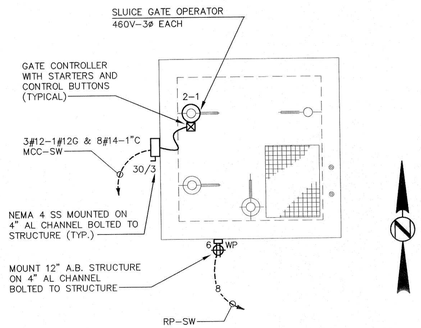
SHEET TITLE
PEAK FLOW BASIN ELECTRICAL PLAN BASE BID

SHEET NO.
E5.01

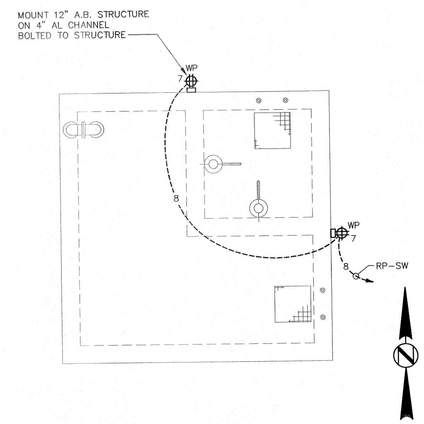
SEQUENCE 81 OF 84



10 J.B. NO.1 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

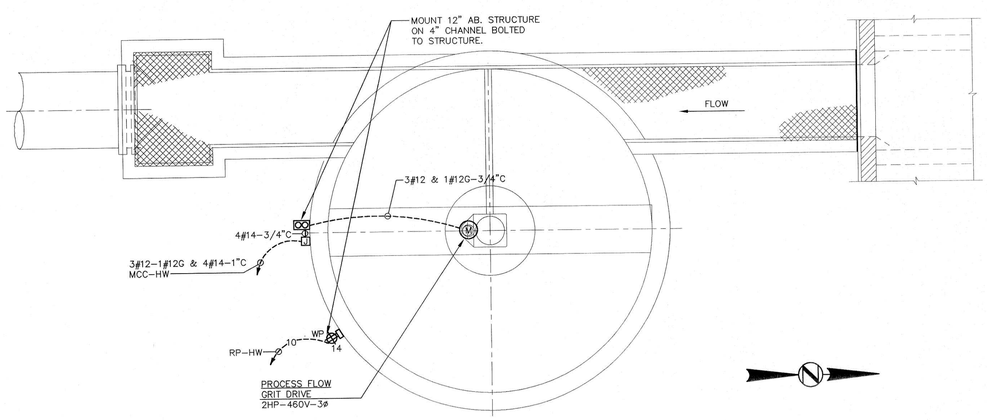


09 J.B. NO. 2 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

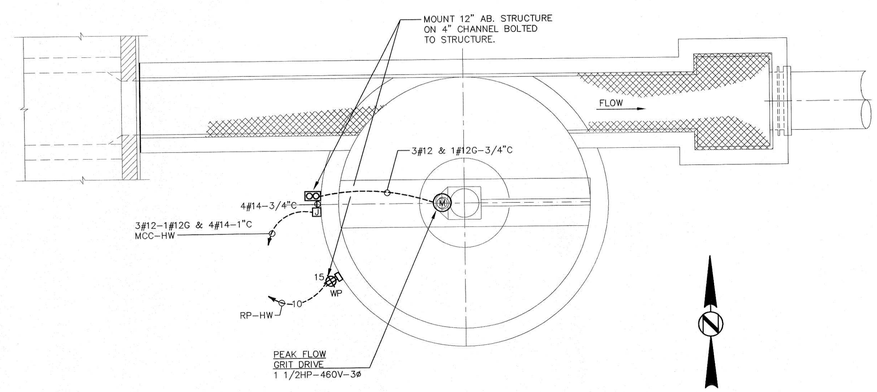


08 J.B. NO. 3 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

06 J.B. NO. 4 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



05 PROCESS FLOW GRIT BASIN ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

02 PEAK FLOW GRIT BASIN ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL
NO. 11357
ENGINEER
WILLIAM C. RENFRO, JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

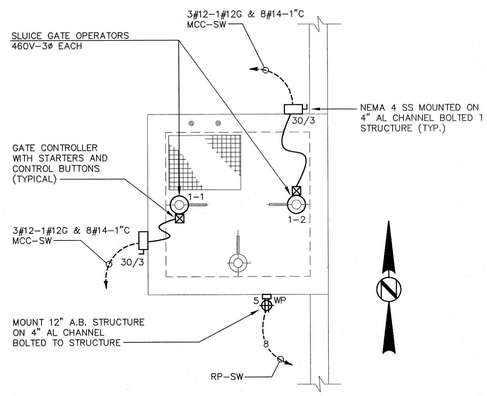
RECORD DRAWING

SHEET TITLE
GRIT BASINS & JUNCTION BOXES ELECTRICAL PLANS

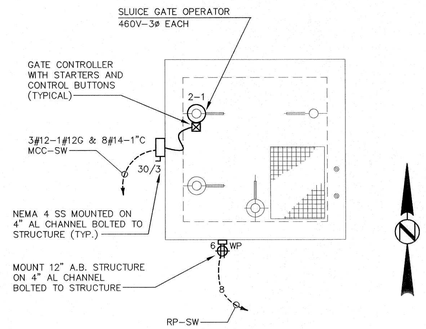
SHEET NO.
E4.01

SEQUENCE 80 OF 84

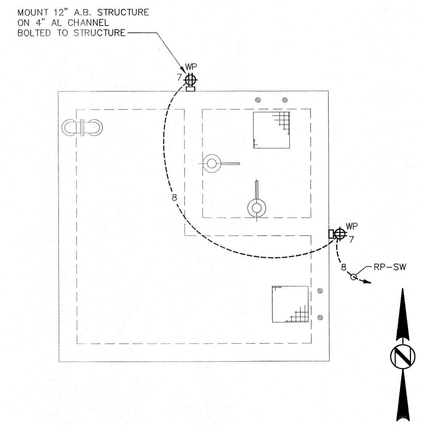
CITY OF MONTGOMERY
WATER & SEWER BOARD
ALABAMA



10 J.B. NO.1 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

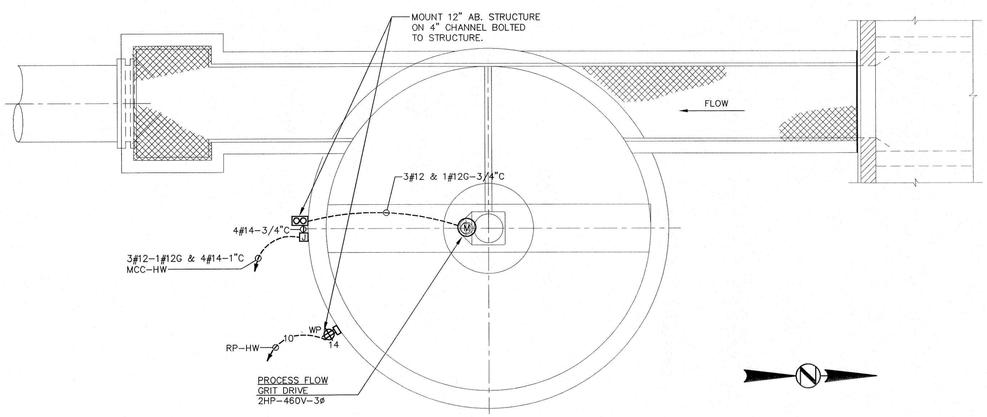


09 J.B. NO. 2 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

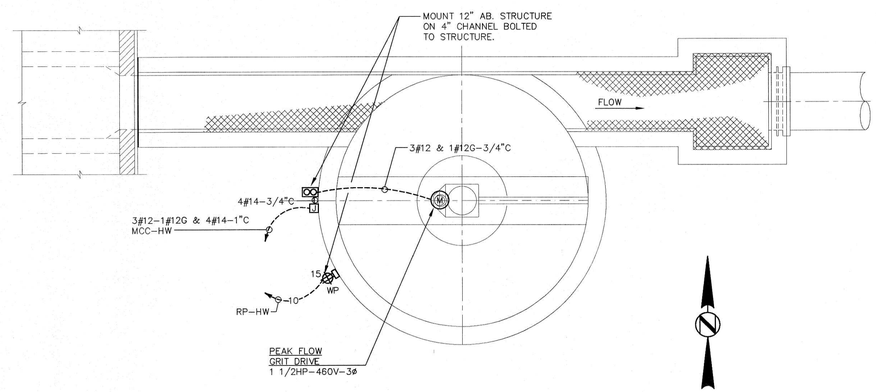


08 J.B. NO. 3 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

06 J.B. NO. 4 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



05 PROCESS FLOW GRIT BASIN ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



02 PEAK FLOW GRIT BASIN ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL
NO. 11357
ENGINEER
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

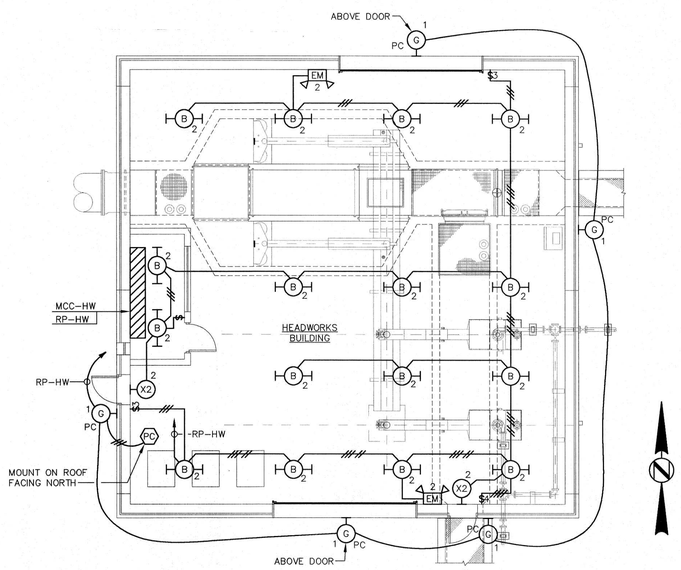
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
GRIT BASINS & JUNCTION BOXES ELECTRICAL PLANS

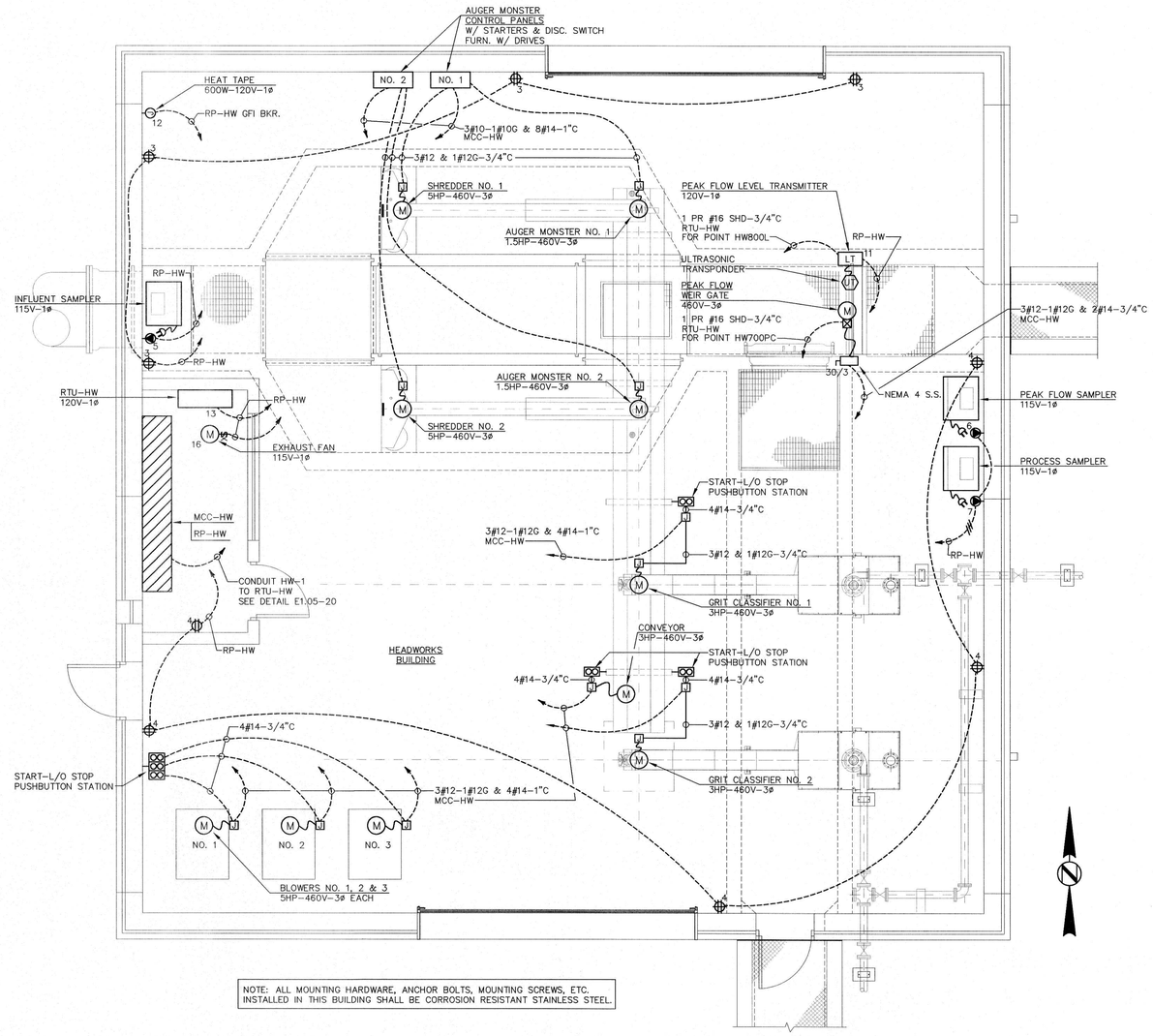
SHEET NO.
E4.01

SEQUENCE 80 OF 84



05 HEADWORKS BUILDING LIGHTING PLAN

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



NOTE: ALL MOUNTING HARDWARE, ANCHOR BOLTS, MOUNTING SCREWS, ETC. INSTALLED IN THIS BUILDING SHALL BE CORROSION RESISTANT STAINLESS STEEL.

03 HEADWORKS BUILDING POWER PLAN

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

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

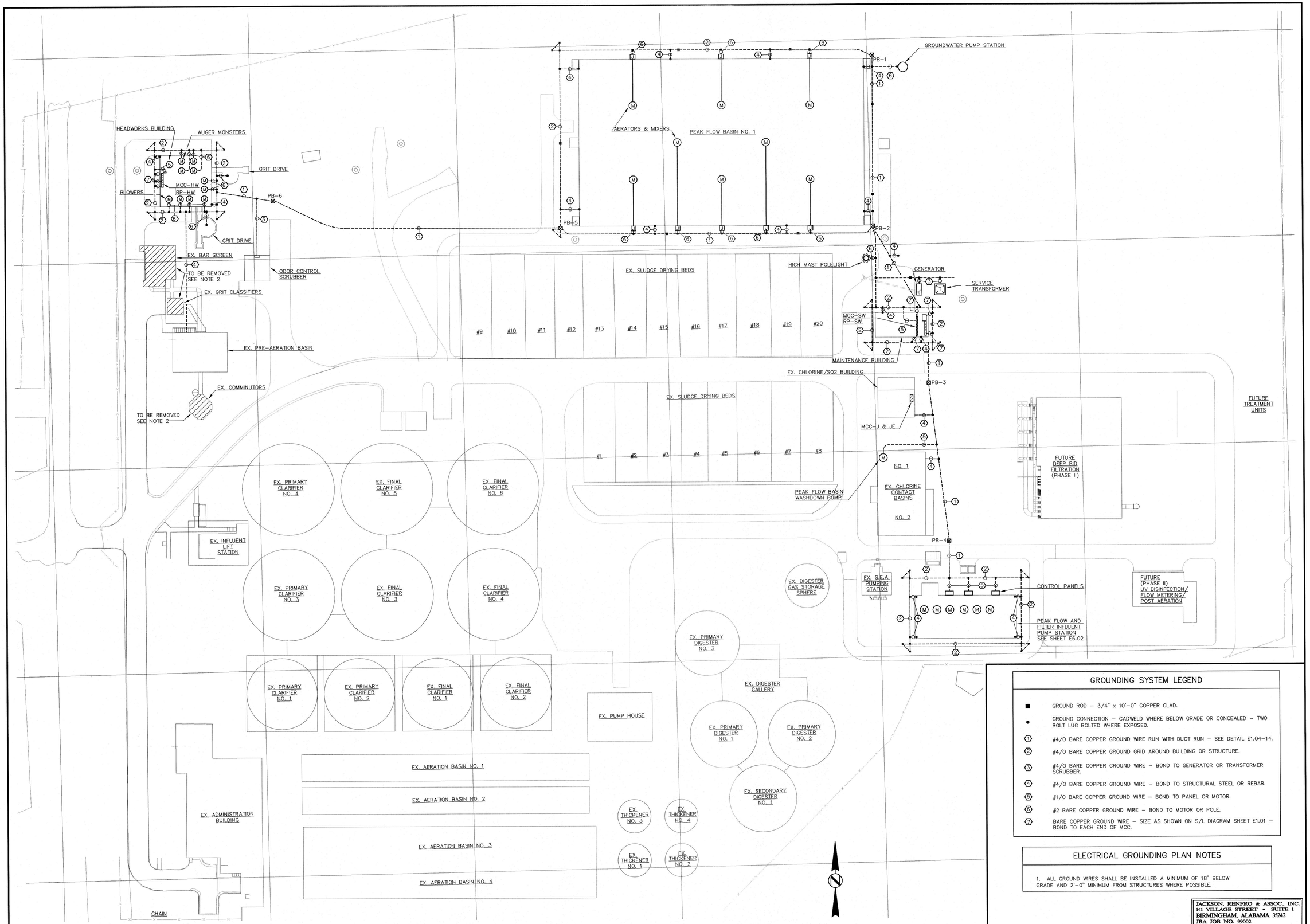
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
HEADWORKS BUILDING ELECTRICAL PLANS

SHEET NO.
E3.01

SEQUENCE 79 OF 84



GROUNDING SYSTEM LEGEND

- ■ GROUND ROD – 3/4" x 10'–0" COPPER CLAD.
- • GROUND CONNECTION – CADWELD WHERE BELOW GRADE OR CONCEALED – TWO BOLT LUG BOLTED WHERE EXPOSED.
- (1) #4/0 BARE COPPER GROUND WIRE RUN WITH DUCT RUN – SEE DETAIL E1.04–14.
- (2) #4/0 BARE COPPER GROUND GRID AROUND BUILDING OR STRUCTURE.
- (3) #4/0 BARE COPPER GROUND WIRE – BOND TO GENERATOR OR TRANSFORMER SCRUBBER.
- (4) #4/0 BARE COPPER GROUND WIRE – BOND TO STRUCTURAL STEEL OR REBAR.
- (5) #1/0 BARE COPPER GROUND WIRE – BOND TO PANEL OR MOTOR.
- (6) #2 BARE COPPER GROUND WIRE – BOND TO MOTOR OR POLE.
- (7) BARE COPPER GROUND WIRE – SIZE AS SHOWN ON S/L DIAGRAM SHEET E1.01 – BOND TO EACH END OF MCC.

ELECTRICAL GROUNDING PLAN NOTES

1. ALL GROUND WIRES SHALL BE INSTALLED A MINIMUM OF 18" BELOW GRADE AND 2'–0" MINIMUM FROM STRUCTURES WHERE POSSIBLE.

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

05 ELECTRICAL GROUNDING PLAN — SCALE : 1" = 40'–0"

01 GROUNDING SYSTEM LEGEND & NOTES — SCALE : NONE

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA — REGISTERED PROFESSIONAL ENGINEER — NO. 11357 — WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD CITY OF ANNISTON
CHOCCOLOCCO WWTP IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

NO.	DATE	DESCRIPTION
1	11–17–06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE: ELECTRICAL GROUNDING PLAN & DETAILS BASE BID

SHEET NO. E2.02

SEQUENCE 78 OF 84

APCO RISER POLE
VERIFY LOCATION
SEE S/L DIAGRAM

EX. APCO OVERHEAD
PRIMARY LINE TO REMAIN

PB-1

GROUNDWATER PUMP STATION
2-2.7HP-460V-3ø
WITH CONTROL PANEL AND
DISCONNECT SWITCH

3#8 & 1#10G-1"C
MCC-SW

DUCT RUN
SEE DETAIL E1.04-14
(TYPICAL)

UNDERGROUND PRIMARY
SERVICE. SEE S/L DIAGRAM

JUNCTION BOX NO. 2
SEE SHEET E4.01

JUNCTION BOX NO. 1
SEE SHEET E4.01

PEAK FLOW BASIN NO. 1
SEE SHEETS E5.01 & E5.01A

HEADWORKS BUILDING
SEE SHEET E3.01

PEAK FLOW
FLOW GRIT BASIN
SEE SHEET E4.01

RTU-HW

MCC-HW
RP-HW

PB-6

HIGH MAST POLELIGHT MARK "N"
SEE DETAIL E1.01-15

DUCT RUN
SEE DETAIL E1.04-14
(TYPICAL)

PB-5

PULL BOX
SEE DETAIL E1.04-05
(TYPICAL)

PB-2

PROCESS FLOW
GRIT BASIN
SEE SHEET E4.01

RP-HW

3#3/0, 1#6G & 10#14-3"C
MCC-HW

EX. BAR SCREEN

ODOR CONTROL SCRUBBER
62.5HP-460V-3ø
W/ CONTROL PANEL & MAIN
DISCONNECT SWITCH

TANIC HEATERS
400W-120V-1ø EA.

TO BE REMOVED
SEE NOTE 2

EX. GRIT CLASSIFIERS

6#10 & 1#10G-1"C
MCC-SW

EMERGENCY GENERATOR
SEE DETAIL E2.01-01

PADMOUNT SERVICE TRANSFORMER
SEE S/L DIAGRAM

UNDERGROUND SECONDARY
SERVICE. SEE S/L DIAGRAM

EX. SLUDGE DRYING BEDS

#9 #10 #11 #12 #13 #14 #15 #16 #17 #18 #19 #20

RTU-SW

MCC-SW
RP-SW

EX. PRE-AERATION BASIN

MAINTENANCE BUILDING
SEE SHEET E8.01

EX. CHLORINE/SO2 BUILDING
SEE SHEET E8.01

EX. COMMINUTORS

TO BE REMOVED
SEE NOTE 2

PB-3

EX. SLUDGE DRYING BEDS

FUTURE
TREATMENT
UNITS

#1 #2 #3 #4 #5 #6 #7 #8

NO. 1

EX. CHLORINE
CONTACT
BASINS

NO. 2

DUCT RUN
SEE DETAIL E1.04-14
(TYPICAL)

FUTURE
DEEP BED
FILTRATION
(PHASE II)

PEAK FLOW BASIN
WASHDOWN PUMP
SEE SHEET E6.01

CAP & MARK

2-4"E.C.
TO MCC-SW
FUTURE SECTION

EX. PRIMARY
CLARIFIER
NO. 4

EX. FINAL
CLARIFIER
NO. 5

EX. FINAL
CLARIFIER
NO. 6

EX. INFLUENT
LIFT
STATION

RP-SW

EFFLUENT SAMPLER
120V-1ø
PROVIDE DISCONNECT SWITCH
OR RECEPTACLE PER
MANUF. SHOP DRAWINGS.

PB-4

JUNCTION BOX NO. 3
SEE SHEET E4.01

EX. PRIMARY
CLARIFIER
NO. 3

EX. FINAL
CLARIFIER
NO. 3

EX. FINAL
CLARIFIER
NO. 4

EX. DIGESTER
GAS STORAGE
SPHERE

EX. S.E.A.
PUMPING
STATION

PB-FF

PB-4

CAP & MARK

2-4"E.C.
TO MCC-SW
FUTURE SECTION

FUTURE
(PHASE II)
UV DISINFECTION/
FLOW METERING/
POST AERATION

PULL BOX
SEE DETAIL E1.04-05
(TYPICAL)

PEAK FLOW AND
FILTER INFLUENT
PUMP STATION
SEE SHEET E6.02

EX. PRIMARY
DIGESTER
NO. 3

EX. PRIMARY
CLARIFIER
NO. 1

EX. PRIMARY
CLARIFIER
NO. 2

EX. FINAL
CLARIFIER
NO. 1

EX. FINAL
CLARIFIER
NO. 2

EX. DIGESTER
GALLERY

EX. PUMP HOUSE

EX. PRIMARY
DIGESTER
NO. 1

EX. PRIMARY
DIGESTER
NO. 2

EX. SECONDARY
DIGESTER
NO. 1

EX. AERATION BASIN NO. 1

EX. AERATION BASIN NO. 2

EX. ADMINISTRATION
BUILDING

EX.
THICKENER
NO. 3

EX.
THICKENER
NO. 4

EX.
THICKENER
NO. 1

EX.
THICKENER
NO. 2

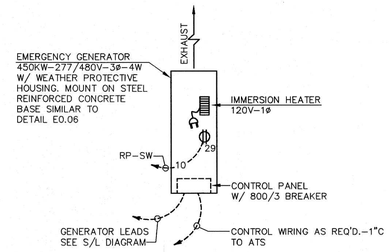
EX. AERATION BASIN NO. 3

EX. AERATION BASIN NO. 4

CHAIN

05 ELECTRICAL SITE PLAN

SCALE : 1" = 40'-0"



01 EMERGENCY GENERATOR PLAN

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

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

KREBS
PAUL B. KREBS & ASSOCIATES
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTG

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP IMPROVEMENTS

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

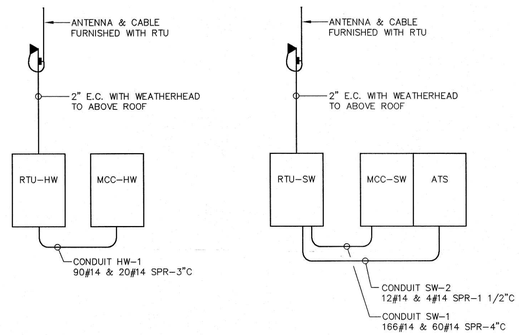
NO.	DATE	DESCRIPTIO
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
ELECTRICAL SITE PLAN & DETAILS

SHEET NO.
E2.01

SEQUENCE 77 OF 84



20 SCADA SYSTEM WIRING DIAGRAM

SCALE : NONE

SCADA SYSTEM WIRING SCHEDULE

EQUIPMENT	DESCRIPTION	TYPE	PREFIX NO.	FROM	TO	WIRE	CONDUIT
AUGER MONSTER NO.1	HOA SWITCH POSITION	DI	HW 101P	C.P.	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 101S	C.P.	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 101C	C.P.	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 101A	C.P.	RTU-HW	2 #14	HW-1
AUGER MONSTER NO.2	HOA SWITCH POSITION	DI	HW 102P	C.P.	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 102S	C.P.	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 102C	C.P.	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 102A	C.P.	RTU-HW	2 #14	HW-1
GRIT CLASSIFIER NO.1	HOA SWITCH POSITION	DI	HW 201P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 201S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 201C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 201A	MCC-HW	RTU-HW	2 #14	HW-1
GRIT CLASSIFIER NO.2	HOA SWITCH POSITION	DI	HW 202P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 202S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 202C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 202A	MCC-HW	RTU-HW	2 #14	HW-1
PEAK FLOW GRIT DRIVE	HOA SWITCH POSITION	DI	HW 301P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 301S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 301C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 301A	MCC-HW	RTU-HW	2 #14	HW-1
PROCESS FLOW GRIT DRIVE	HOA SWITCH POSITION	DI	HW 302P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 302S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 302C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 302A	MCC-HW	RTU-HW	2 #14	HW-1
BLOWER NO.1	HOA SWITCH POSITION	DI	HW 401P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 401S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 401C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 401A	MCC-HW	RTU-HW	2 #14	HW-1
BLOWER NO.2	HOA SWITCH POSITION	DI	HW 402P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 402S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 402C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 402A	MCC-HW	RTU-HW	2 #14	HW-1
BLOWER NO.3	HOA SWITCH POSITION	DI	HW 403P	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF STATUS	DI	HW 403S	MCC-HW	RTU-HW	2 #14	HW-1
	ON/OFF CONTROL	DO	HW 403C	MCC-HW	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 403A	MCC-HW	RTU-HW	2 #14	HW-1
ODOR CONTROL SCRUBBER	ON/OFF STATUS	DI	HW 600S	C.P.	RTU-HW	2 #14	HW-1
	ALARM	DI	HW 600A	C.P.	RTU-HW	2 #14	HW-1
PEAK FLOW WEIR GATE	HOA SWITCH POSITION	DI	HW 700P	C.P.	RTU-HW	2 #14	HW-1
	POSITION CONTROL	AO	HW 700PC	C.P.	RTU-HW	1 PR #16 SHD.	3/4" C
PROCESS FLOW WEIR GATE	HOA SWITCH POSITION	DI	HW 701P	C.P.	RTU-HW	2 #14	HW-1
	POSITION CONTROL	AO	HW 701PC	C.P.	RTU-HW	1 PR #16 SHD.	3/4" C
PEAK FLOW LEVEL TRANSMITTER	LEVEL	AI	HW 800L	XMTR.	RTU-HW	1 PR #16 SHD.	3/4" C
AERATOR NO. 1-1	HOA SWITCH POSITION	DI	SW 101P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 101S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 101C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 101A	MCC-SW	RTU-SW	2 #14	SW-1
AERATOR NO. 1-2	HOA SWITCH POSITION	DI	SW 102P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 102S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 102C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 102A	MCC-SW	RTU-SW	2 #14	SW-1
AERATOR NO. 1-3	HOA SWITCH POSITION	DI	SW 103P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 103S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 103C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 103A	MCC-SW	RTU-SW	2 #14	SW-1
AERATOR NO. 1-4	HOA SWITCH POSITION	DI	SW 104P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 104S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 104C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 104A	MCC-SW	RTU-SW	2 #14	SW-1
AERATOR NO. 1-5	HOA SWITCH POSITION	DI	SW 105P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 105S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 105C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 105A	MCC-SW	RTU-SW	2 #14	SW-1
AERATOR NO. 1-6	HOA SWITCH POSITION	DI	SW 106P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 106S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 106C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 106A	MCC-SW	RTU-SW	2 #14	SW-1
MIXER NO. 1-1	HOA SWITCH POSITION	DI	SW 111P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 111S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 111C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 111A	MCC-SW	RTU-SW	2 #14	SW-1
MIXER NO. 1-2	HOA SWITCH POSITION	DI	SW 112P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 112S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 112C	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 112A	MCC-SW	RTU-SW	2 #14	SW-1

SCADA SYSTEM WIRING SCHEDULE (CONTINUED)

EQUIPMENT	DESCRIPTION	TYPE	PREFIX NO.	FROM	TO	WIRE	CONDUIT
PEAK FLOW BASIN NO.1	LEVEL	AI	SW 100L	XMTR.	RTU-SW	1 PR #16 SHD.	3/4" C
	LOW LEVEL CUT OFF	DI	SW 100CO	MCC-SW	RTU-SW	2 #14	SW-1
PEAK FLOW WASHDOWN PUMP	ON/OFF STATUS	DI	SW 400S	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 400A	MCC-SW	RTU-SW	2 #14	SW-1
PEAK FLOW PUMP NO.1	HOA SWITCH POSITION	DI	SW 501P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 501S	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 501A	MCC-SW	RTU-SW	2 #14	SW-1
	SPEED CONTROL	AO	SW 501SC	MCC-SW	RTU-SW	1 PR #16 SHD.	3/4" C
PEAK FLOW PUMP NO.2	HOA SWITCH POSITION	DI	SW 502P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 502S	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 502A	MCC-SW	RTU-SW	2 #14	SW-1
PEAK FLOW PUMP NO.3	HOA SWITCH POSITION	DI	SW 503P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 503S	MCC-SW	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 503A	MCC-SW	RTU-SW	2 #14	SW-1
PEAK FLOW PUMP STATION	LEVEL	AI	SW500L	C.P.	RTU-SW	1 PR #16 SHD.	1"C
PEAK FLOW TRANSMITTER	FLOW	AI	SW500F	C.P.	RTU-SW	1 PR #16 SHD.	
SEWAGE SHREDDER	HOA SWITCH POSITION	DI	SW 600P	C.P.	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 600S	C.P.	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 600C	C.P.	RTU-SW	2 #14	SW-1
	ALARM	DI	SW 600A	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.1-1	OPEN CONTROL	DO	SW 1210C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 1210S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 1210C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 1210S	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.1-2	OPEN CONTROL	DO	SW 1220C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 1220S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 1220C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 1220S	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.2-1	OPEN CONTROL	DO	SW 2210C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 2210S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 2210C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 2210S	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.2-2	OPEN CONTROL	DO	SW 2220C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 2220S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 2220C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 2220S	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.3-1	OPEN CONTROL	DO	SW 3210C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 3210S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 3210C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 3210S	C.P.	RTU-SW	2 #14	SW-1
SLUICE GATE NO.3-2	OPEN CONTROL	DO	SW 3220C	C.P.	RTU-SW	2 #14	SW-1
	OPEN STATUS	DI	SW 3220S	C.P.	RTU-SW	2 #14	SW-1
	CLOSE CONTROL	DO	SW 3220C	C.P.	RTU-SW	2 #14	SW-1
	CLOSE STATUS	DI	SW 3220S	C.P.	RTU-SW	2 #14	SW-1
EMERGENCY GENERATOR	ON/OFF STATUS	DI	SW 600S	ATS	RTU-SW	2 #14	SW-2
	NORMAL POWER AVAILABLE	DI	SW 600NA	ATS	RTU-SW	2 #14	SW-2
	EMERGENCY POWER AVAILABLE	DI	SW 600EA	ATS	RTU-SW	2 #14	SW-2
	TRANSFER SWITCH POSITION	DI	SW 600P	ATS	RTU-SW	2 #14	SW-2
	MINOR ALARM	DI	SW 600A	ATS	RTU-SW	2 #14	SW-2
	MAJOR ALARM	DI	SW 600F	ATS	RTU-SW	2 #14	SW-2
	GENERATOR KW	AI	SW 600KW	ATS	RTU-SW	1 PR #16 SHD.	3/4" C
HIGH MAST LIGHTING LEVEL 1	HOA SWITCH POSITION	DI	SW 701P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 701S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 701C	MCC-SW	RTU-SW	2 #14	SW-1
HIGH MAST LIGHTING LEVEL 2	HOA SWITCH POSITION	DI	SW 702P	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF STATUS	DI	SW 702S	MCC-SW	RTU-SW	2 #14	SW-1
	ON/OFF CONTROL	DO	SW 702C	MCC-SW	RTU-SW	2 #14	SW-1

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

03 SCADA SYSTEM WIRING SCHEDULE

SCALE : NONE

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

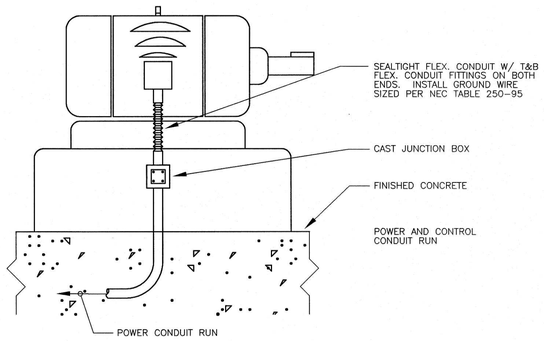
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

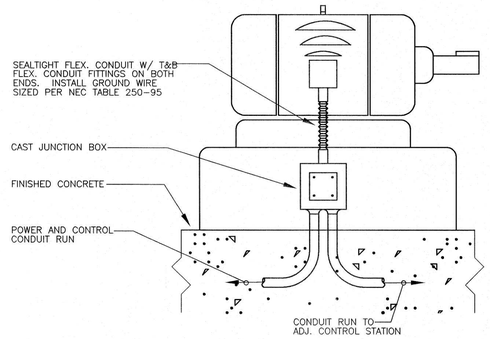
SHEET TITLE
SCADA SYSTEM WIRING SCHEDULE & DETAIL
BASE BID

SHEET NO.
E1.05

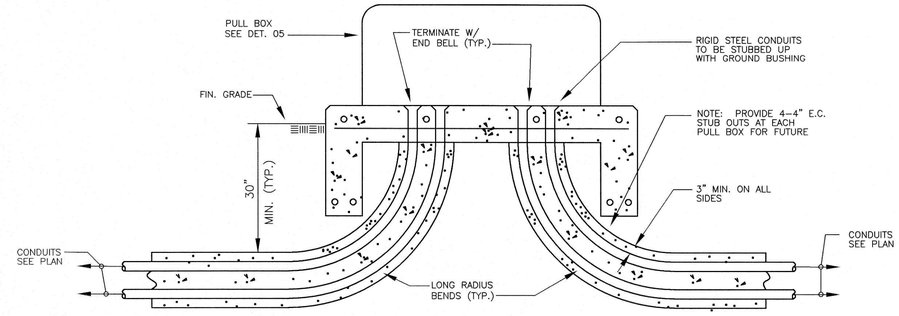
SEQUENCE 76 OF 84



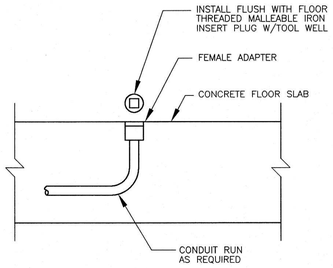
20 MOTOR FEEDER CONNECTION SCALE : NONE



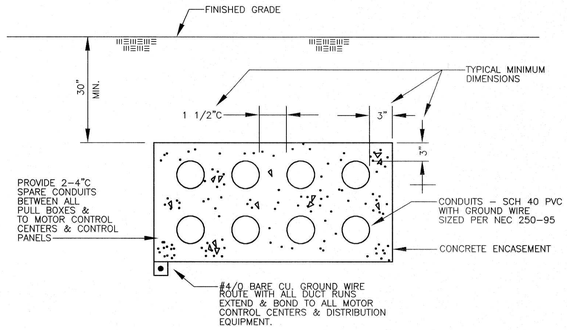
18 MOTOR CONNECTION W/ADJ. CONTR. STA. SCALE : NONE



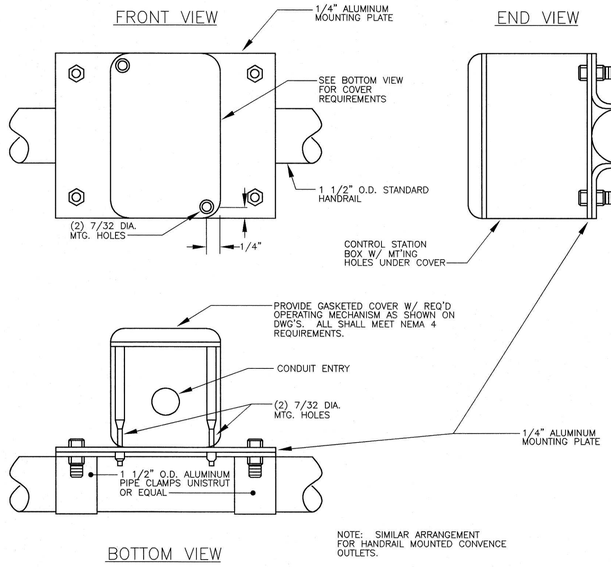
17 CONDUIT TERMINATION AT PULL BOX SCALE : NONE



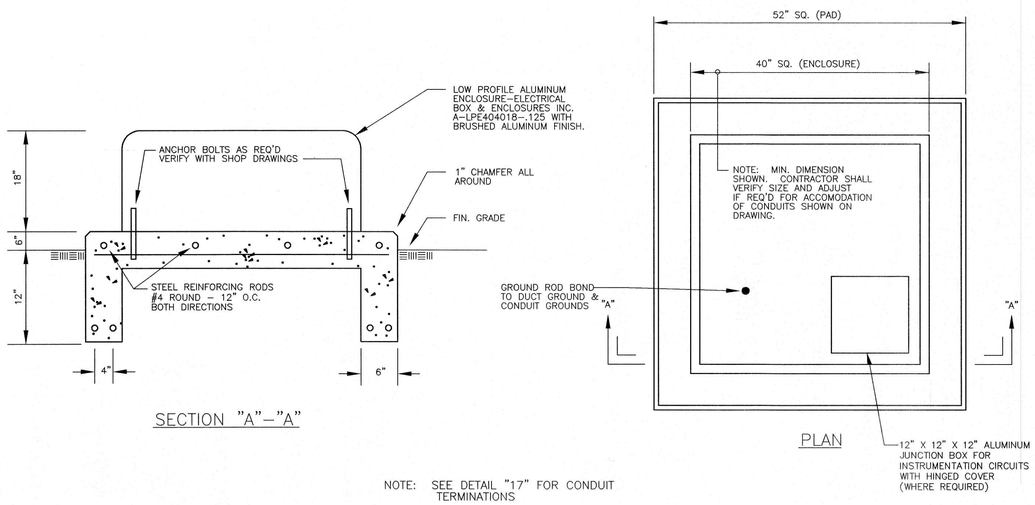
15 FUT. CONDUIT STUB-UP SCALE : NONE



14 TYPICAL DUCT RUN SECTION SCALE : NONE



07 TYPICAL NEMA 4 CONTROL STATION HANDRAIL MOUNTING SCALE : NONE



NOTE: SEE DETAIL "17" FOR CONDUIT TERMINATIONS

05 TYPICAL PULL BOX SCALE : NONE

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

KREBS
PAUL B. KREBS & ASSOCIATES
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTG

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO, JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

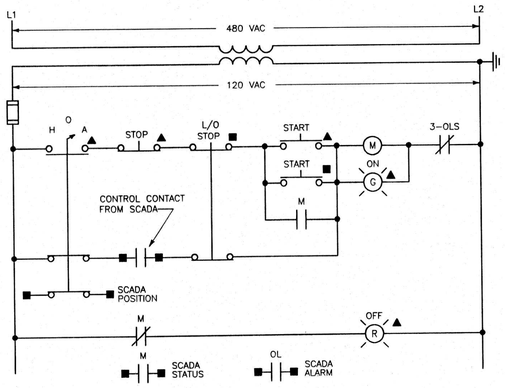
NO.	DATE	DESCRIPTIO
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
ELECTRICAL DETAILS

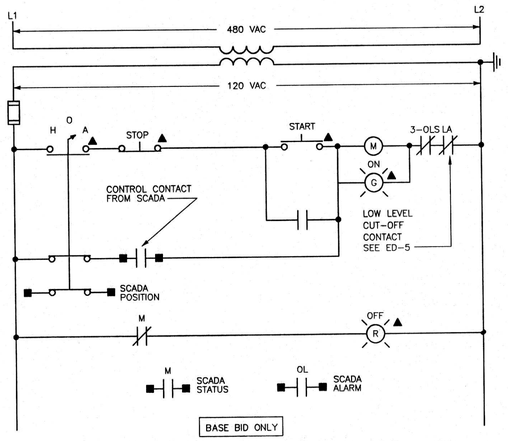
SHEET NO.
E1.04

SEQUENCE 75 OF 84



ELEMENTARY DIAGRAM NO. 1

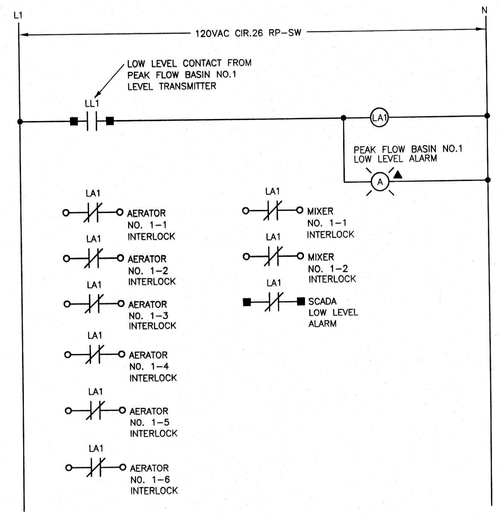
GRIT CLASSIFIERS NO. 1 & 2 MCC-HW
PEAK FLOW GRIT DRIVE MCC-HW
PROCESS FLOW GRIT DRIVE MCC-HW
BLOWERS NO. 1, 2 & 3 MCC-HW
CONVEYOR MCC-HW
PEAK FLOW WASHDOWN PUMP MCC-SW



BASE BID ONLY

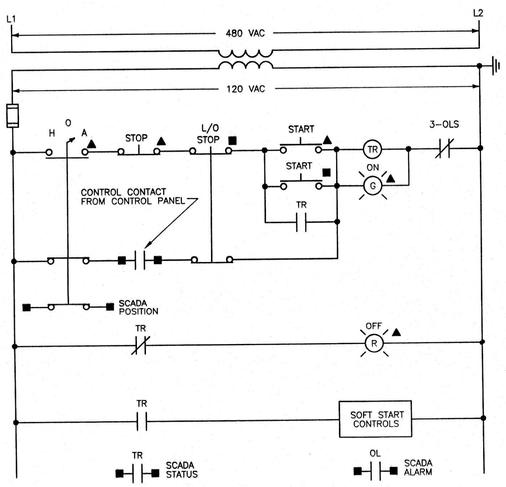
ELEMENTARY DIAGRAM NO. 2

AERATORS NO. 1-1 THRU 1-6 MCC-SW
MIXERS NO. 1-1 THRU 1-2 MCC-SW



ELEMENTARY DIAGRAM NO. 5

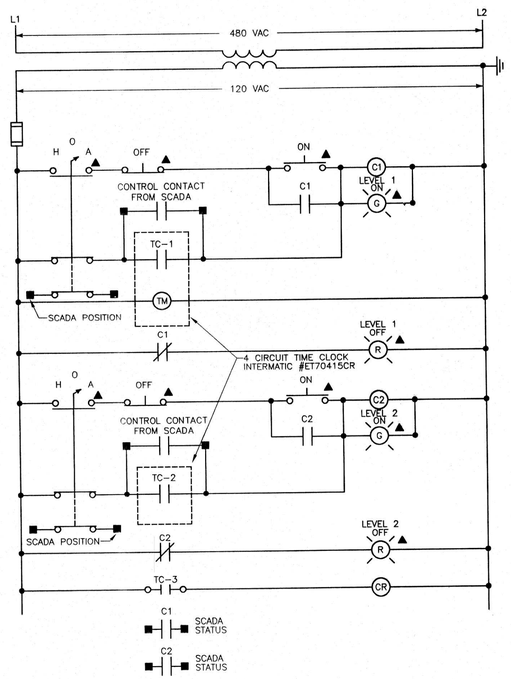
PEAK FLOW BASIN LOW LEVEL CUT-OFF CONTROL MCC-SW



ELEMENTARY DIAGRAM NO. 4

PEAK FLOW PUMPS NO. 1, 2 & 3 MCC-SW

2



ELEMENTARY DIAGRAM NO. 6

HIGH MAST LIGHTING CONTROLS MCC-SW

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
ELEMENTARY DIAGRAMS

SHEET NO.
E1.03

SEQUENCE 74 OF 84

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

SCALE : NONE

MOTOR CONTROL CENTER SCHEDULE MCC–HW

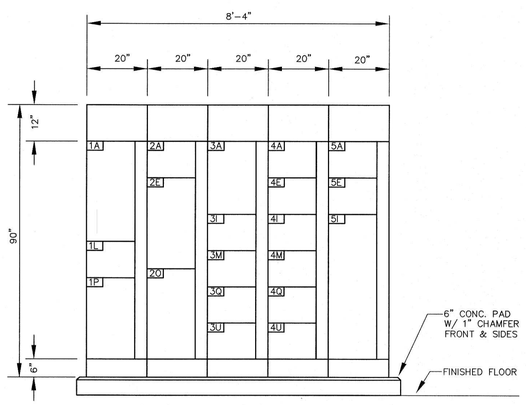
UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT DESCRIPTION	ELECT. EQUIP. CHARACTERISTICS				STR. NEMA SIZE	AUX. DEVICES IN DOOR			REMARKS
			HP	KW	V	ø		PUSH BTNS.	SEL. SW.	IND. LTS.	
1A	SPACE	PROV. FOR FUTURE PLUG–IN UNIT			480	3					
1L	TVSS	250MV TVSS SEE SPECS.			480	3					
1P	MAIN BREAKER	400/3 BREAKER			277/480	3					
2A	SPACE	PROV. FOR FUTURE PLUG–IN UNIT			480	3					
2E	RP–HW	SEE PANEL SCHEDULE			120/208	3					
2O	TRANSFORMER T–HW	DRY TYPE TRANSF. 480–120/208V–3ø 4W W/ 20/3 PRI. BREAKER AND TAPS		15	480	3					
3A	SPACE	PROV. FOR FUTURE PLUG–IN UNIT			480	3					
3I	GRIT CLASSIFIER NO. 1	COMB. MAG. STR. FVNR W/ 3/3 MCP	3/4		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
3M	GRIT CLASSIFIER NO. 2	COMB. MAG. STR. FVNR W/ 3/3 MCP	3/4		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
3Q	PEAK FLOW FLOW GRIT DRIVE	COMB. MAG. STR. FVNR W/ 3/3 MCP	3/4		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
3U	PROCESS FLOW GRIT DRIVE	COMB. MAG. STR. FVNR W/ 3/3 MCP	3/4		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
4A	BLOWER NO. 1	COMB. MAG. STR. FVNR W/ 15/3 MCP	5		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
4E	BLOWER NO. 2	COMB. MAG. STR. FVNR W/ 15/3 MCP	5		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
4I	BLOWER NO. 3	COMB. MAG. STR. FVNR W/ 15/3 MCP	5		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
4M	CONVEYOR	COMB. MAG. STR. FVNR W/ 7/3 MCP	3		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
4Q	ODOR CONTROL SCRUBBER	200/3 BREAKER			460	3					
4U	PEAK FLOW WEIR GATE	15/3 BREAKER			460	3					
5A	AUGER MONSTER NO. 1	30/3 BREAKER	6.5		460	3					
5E	AUGER MONSTER NO. 2	30/3 BREAKER	6.5		460	3					
5I	SPACE	PROVISIONS FOR FUTURE PLUG–IN UNITS			480	3					

MOTOR CONTROL CENTER SCHEDULE MCC–SW

UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT DESCRIPTION	ELECT. EQUIP. CHARACTERISTICS				STR. NEMA SIZE	AUX. DEVICES IN DOOR			REMARKS
			HP	KW	V	ø		PUSH BTNS.	SEL. SW.	IND. LTS.	
1A	MAIN LUGS	LUGS FOR CABLE SHOWN ON S/L DIAG.			277/480	3					
2A	HIGH MAST LIGHTING CONTROLS	TWO (2) 20A LIGHTING CONTACTORS W/ 20/3 BREAKER		9.9	480	3	2–20A	4	2	4	SEE ELEMENTARY DIAGRAM NO. 6
2L	TVSS	250MV TVSS SEE SPECS			480	3					
2P	MCC–HW FEEDER	400/3 BREAKER			277/480	3					
3A	RP–SW	SEE PANEL SCHEDULE			120/208	3					
3R	SPACE	PROV. FOR FUTURE PLUG–IN UNITS			480	3					
4A	PEAK FLOW BASIN LOW LEVEL CUT–OFF CONTROLS	CONTROLS			120	1				1	SEE ELEMENTARY DIAGRAM NO. 5
4I	GROUNDWATER PUMP STATION	20/3 BREAKER	5.4		460	3					
4M	TRANSFORMER T–SW	DRY TYPE TRANSF. 480–120/208V–3ø–4W W/ 60/3 PRI. BKR. & TAPS		45	480	3					
5A	AERATOR NO. 1–1	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
5E	AERATOR NO. 1–2	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
5I	AERATOR NO. 1–3	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
5M	AERATOR NO. 1–4	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
5Q	AERATOR NO. 1–5	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
5U	AERATOR NO. 1–6	COMB. MAG. STR. FVNR W/ 30/3 MCP	15		460	3	2	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
6A	MIXER NO. 1–1	COMB. MAG. STR. FVNR W/ 15/3 MCP	7.5		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
6E	MIXER NO. 1–2	COMB. MAG. STR. FVNR W/ 15/3 MCP	7.5		460	3	1	2	1	2	SEE ELEMENTARY DIAGRAM NO. 2
6I	SPACE	PROV. FOR FUT. PLUG–IN UNITS			480	3					

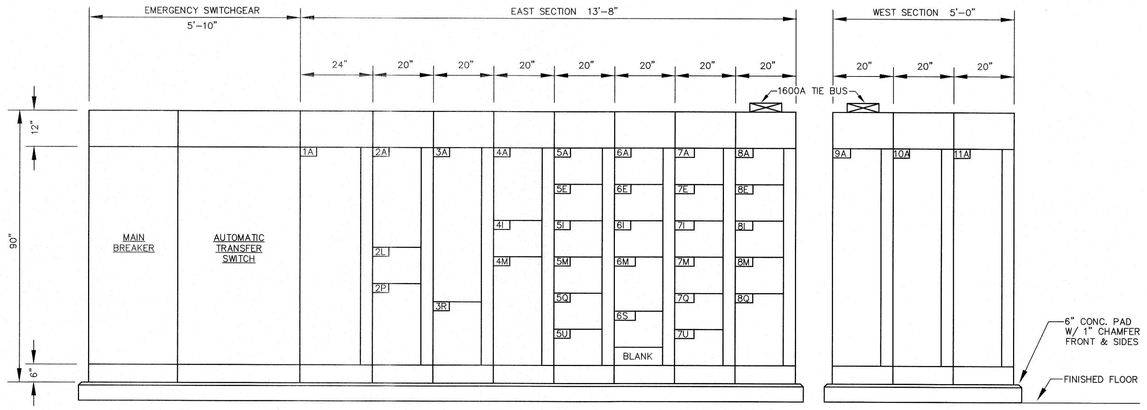
MOTOR CONTROL CENTER SCHEDULE MCC–SW (CONTINUED)

UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT DESCRIPTION	ELECT. EQUIP. CHARACTERISTICS				STR. NEMA SIZE	AUX. DEVICES IN DOOR			REMARKS
			HP	KW	V	ø		PUSH BTNS.	SEL. SW.	IND. LTS.	
6M	PEAK FLOW WASHDOWN PUMP	COMB. MAG. STR. FVNR W/ 100/3 MCP	50		460	3	3	2	1	2	SEE ELEMENTARY DIAGRAM NO. 1
6S	SEWAGE SHREDDER	15/3 BREAKER			460	3					
7A	SLUICE GATE NO. 1–1	15/3 BREAKER			460	3					
7E	SLUICE GATE NO. 1–2	15/3 BREAKER			460	3					
7I	SLUICE GATE NO. 2–1	15/3 BREAKER			460	3					
7M	SLUICE GATE NO. 2–2	15/3 BREAKER			460	3					
7Q	SLUICE GATE NO. 3–1	15/3 BREAKER			460	3					
7U	SLUICE GATE NO. 3–2	15/3 BREAKER			460	3					
8A	SPACE	SPACE			460	3					
8E	EUH–1	20/3 BREAKER		10	480	3					
8I	EUH–2	20/3 BREAKER		10	480	3					
8M	EUH–3	20/3 BREAKER		10	480	3					
8Q	SPACE	PROV. FOR FUTURE PLUG–IN UNITS			480	3					
9A	PEAK FLOW PUMP NO. 1	COMB. MAG. SOFTSTART CONTROLLER W/ 300/3 BREAKER	150		460	3	C24	2	1	2	SEE ELEMENTARY DIAGRAM NO. 4
10A	PEAK FLOW PUMP NO. 2	COMB. MAG. SOFTSTART CONTROLLER W/ 300/3 BREAKER	150		460	3	C24	2	1	2	SEE ELEMENTARY DIAGRAM NO. 4
11A	PEAK FLOW PUMP NO. 3	COMB. MAG. SOFTSTART CONTROLLER W/ 300/3 BREAKER	150		460	3	C24	2	1	2	SEE ELEMENTARY DIAGRAM NO. 4



MCC–HW ELEVATION

SCALE : 1/2" = 1'–0"



MCC–SW ELEVATION

SCALE : 1/2" = 1'–0"

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

05 MCC SCHEDULES & ELEVATIONS

SCALE : NONE

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
NO. 11357
WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

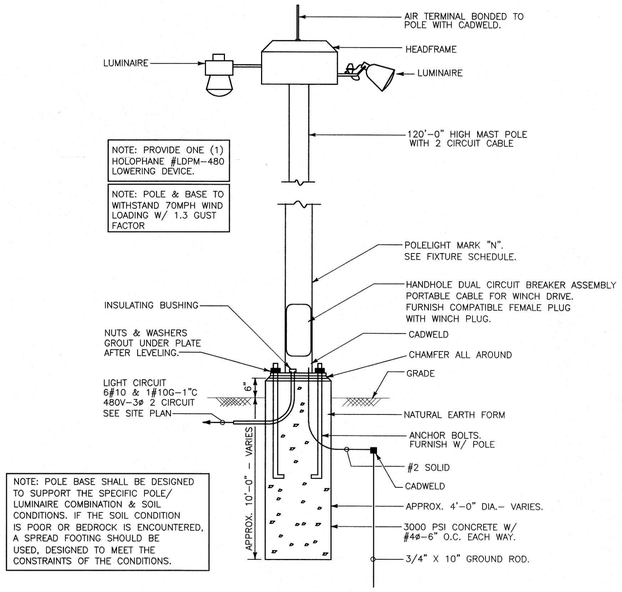
NO.	DATE	DESCRIPTION
1	11–17–06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
MCC SCHEDULES & ELEVATIONS BASE BID

SHEET NO.
E1.02

SEQUENCE 73 OF 84



15 FIXTURE MARK "N" POLE DETAIL SCALE : NONE

LIGHTING FIXTURE SCHEDULE

MARK	FIXTURE MFG	CATALOG NO.	LAMPS			MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
			NO. FIXT.	WATTS /TYPE	TYPE			
B	LITHONIA	DMW-240-AR-GEB	2	34	RSCW	CEILING	OUTLET BOX	
EM	LITHONIA	ELU2X	FURNISHED WITH FIXTURE			8'-0" AFF	OUTLET BOX	EMERGENCY
G	BEGA	2984MH-BL	1	100	MH	SEE ARCH. DRAWINGS	OUTLET BOX	
L	LITHONIA	DMW-240-AR-GEB	2	34	RSCW	AS DIRECTED	PENDANT	
N	HOLOPHANE	HMS-120-GALV-9-LD5-3-(3) HMSTC10HP48A1 (6)P82C10HP4833-SS-LA-LR 2 CIRCUIT	9	1000	CLEAR HPS	120'-0" POLE SEE DETAIL E1.01		2 CIRCUIT 480V-3ø
X2	LITHONIA	LES1GELN	FURNISHED WITH FIXTURE			ABOVE DOOR	OUTLET BOX	EMERGENCY

18 LIGHTING FIXTURE SCHEDULE SCALE : NONE

GENERAL ELECTRICAL NOTES

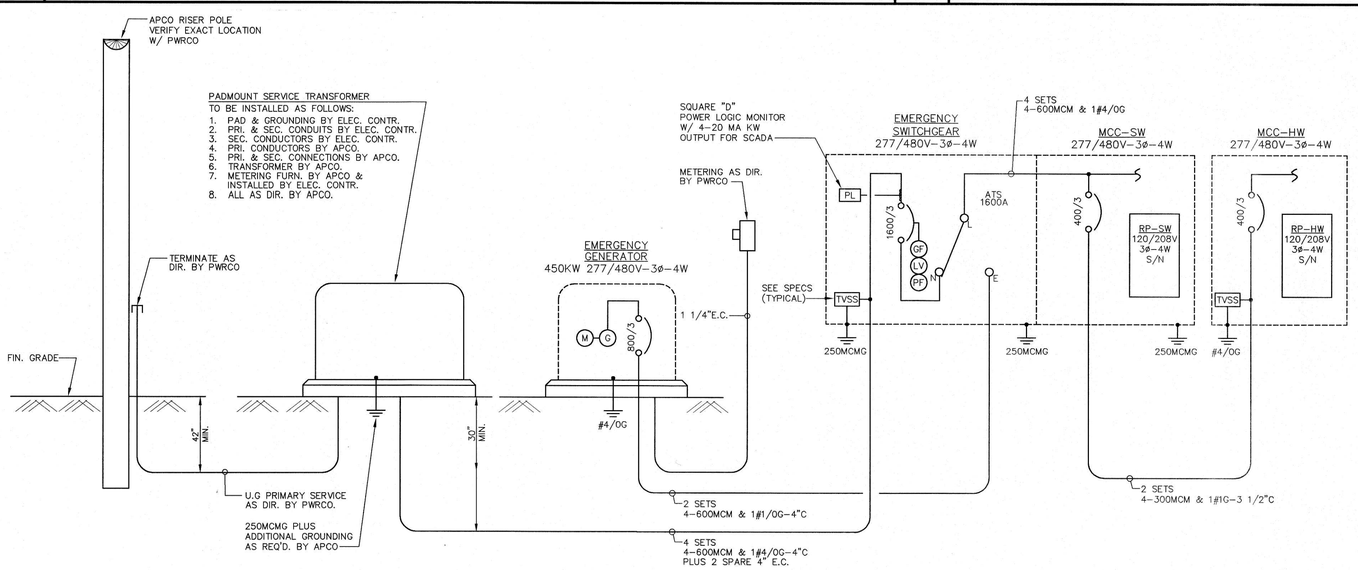
1. SPECIAL ATTENTION IS CALLED TO THE FACT THAT THIS IS AN OPERATING FACILITY AND AS SUCH NO DISRUPTION TO POWER, CONTROL OR PROCESS EQUIPMENT SHALL BE MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE PLANT OPERATOR. ALL OUTAGES SHALL BE SCHEDULED THROUGH AND COORDINATED WITH THE PLANT OPERATOR.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND WIRING MADE OBSOLETE BY THIS RENOVATION AND DISPOSE OF AS DIRECTED BY THE ENGINEER.
3. EXISTING PANEL DIRECTORY CARDS MODIFIED BY THIS RENOVATION SHALL BE RETYPED TO INDICATE CONNECTED CIRCUITS.
4. THIS CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR NECESSARY TO EXTEND CIRCUITS AND MAKE RECONNECTIONS TO ANY ACTIVE ELECTRICAL DEVICES ON WHICH THE BRANCH CIRCUIT IS INTERRUPTED BY THIS ALTERATION. CARE SHALL BE TAKEN TO INSURE THAT EXISTING PANEL AND FEEDER RATINGS ARE NOT EXCEEDED.
5. DEVICE PLATES SHALL BE TYPE 302 STAINLESS STEEL AS MANUFACTURED BY HUBBELL, SIERRA OR APPROVED EQUAL.
6. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NEC.
7. CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ENGINEER.
8. THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT AND SHALL ADJUST CONDUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY ENGINEER IMMEDIATELY.
9. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICE WITH UTILITY COMPANY PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ENGINEER IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.

13 GENERAL ELECTRICAL NOTES SCALE : NONE

GENERAL ELECTRICAL LEGEND

- (A)2 FIXTURE OUTLET – CEILING – SURFACE OR PENDANT MOUNTED – INCANDESCENT OR H.I.D. – FIXTURE MARK "A", CIRCUIT NO.2 (TYP.).
- FIXTURE OUTLET – CEILING – RECESSED – INCANDESCENT OR H.I.D..
- FIXTURE OUTLET – CEILING – SURFACE OR PENDANT MOUNTED – FLUORESCENT.
- FIXTURE OUTLET – CEILING – RECESSED – FLUORESCENT.
- FIXTURE OUTLET – WALL – BRACKET MOUNTED – INCANDESCENT OR H.I.D..
- FIXTURE OUTLET – WALL – BRACKET MOUNTED – FLUORESCENT.
- (X) FIXTURE OUTLET – EXIT LIGHT – DIRECTIONAL ARROWS AS INDICATED.
- WALL OUTLET – DUPLEX – 15A – 125V – 2P – 3W – GROUNDING – HUBBELL 5262.
- WP WALL OUTLET – DUPLEX – 15A – 125V – 2P – 3W – GROUNDING – "GFI" TYPE WEATHERPROOF – BRYANT GF-R-52FT WITH WEATHERPROOF PLATE.
- WALL OUTLET – DUPLEX – 20A – 125V – 2P – 3W – GROUNDING – HUBBELL 5362.
- DF WALL OUTLET – DUPLEX – 20A – 125V – 2P – 3W – GROUNDING – DRINKING FOUNTAIN OUTLET – HUBBELL 5362 – EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.
- WALL OUTLET – DUPLEX – 15A – 125V – 2P – 3W – GROUNDING – "GFI" TYPE – BRYANT GF-R-52FT.
- CR WALL OUTLET – DUPLEX – 20A–125V–2P–3W – GROUNDING – CORROSION RESISTANT HUBBELL 53CM62 WITH PLASTIC PLATE.
- FLOOR OUTLET – CONDUIT STUB UP.
- FLOOR OUTLET – JUNCTION BOX – CROUSE HINDS "FS" TYPE CAST BOX.
- WALL OUTLET – JUNCTION BOX – FLUSH MOUNTED.
- CEILING OUTLET – JUNCTION BOX.
- BRANCH CIRCUIT – CONCEALED IN WALLS OR CEILING.
- BRANCH CIRCUIT – EXPOSED ON WALLS OR CEILING.
- BRANCH CIRCUIT – CONCEALED IN FLOOR SLAB OR DIRT FILL.
- BRANCH CIRCUIT – HOMERUN – 2 NO.12, 3 NO.12, ETC. – WITH GREEN INSULATED GROUND WIRE SIZED PER NEC TABLE 250-95 – 3/4" MINIMUM.
- 10 BRANCH CIRCUIT – HOMERUN – 10 2 NO.10, 10 3 NO.10, ETC. – MAY BE USED WITH OTHER WIRE SIZES – WITH GREEN INSULATED GROUND WIRE SIZED PER NEC TABLE 250-95 – 3/4" MINIMUM.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- $ SWITCH OUTLET – S.P.S.T. – 15A – 120–277VAC – HUBBELL 1201.
- $3 SWITCH OUTLET – 3 WAY – 15A – 120–277VAC – HUBBELL 1203.
- $4 SWITCH OUTLET – 4 WAY – 15A – 120–277VAC – HUBBELL 1204.
- $a SWITCH OUTLET – CONTROLS OUTLET "a", ETC.
- $X SWITCH OUTLET – MANUAL MOTOR STARTER – TOGGLE TYPE – 2 POLE – SQUARE "D" TYPE KS-1.
- $M SWITCH OUTLET – MOMENTARY S.P.D.T. – 15A – 120–277VAC – HUBBELL 1556.
- DISTRIBUTION CENTER.
- T TRANSFORMER – POWER.
- MAGNETIC MOTOR STARTER.
- DISCONNECT SWITCH – FUSED.
- DISCONNECT SWITCH – NONFUSED.
- CR DISCONNECT SWITCH – NONFUSED – CORROSION RESISTANT.
- (M) MOTOR OUTLET – SIZE AS SHOWN.
- UNIT HEATER – ELECTRICAL – ARROW INDICATES DIRECTION.
- ELECTRIC DUCT HEATER.
- (FS) FLOAT SWITCH.
- PUSHBUTTON STATION – NUMBER OF BUTTONS AS SHOWN.
- PULL BOX – POWER AND INSTRUMENTATION – SEE DETAIL E1.05–05.
- --P/I-- POWER AND INSTRUMENTATION DUCT BANK – SEE DETAIL E1.05–14 & 17.
- —I— INSTRUMENTATION WIRING – IN RIGID STEEL CONDUIT.
- LT LEVEL TRANSMITTER.
- FT FLOW TRANSMITTER.
- UT ULTRASONIC TRANSPONDER.
- $PL SWITCH OUTLET – PILOT LIGHT – S.P.S.T. – 15A – 120–277VAC – ON WHEN SWITCH IS ON – HUBBELL 1201–PLC.
- SV SOLENOID VALVE.
- GROUND ROD – 3/4" X 10'-0" COPPER CLAD.
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION – SEE SPECS.
- MOTORIZED VALVE ACTIVATOR.
- ---P--- UNDERGROUND PRIMARY IN CONDUIT.
- PC PHOTOELECTRIC CONTROL – S.P.S.T. – 120VAC – 2000W – TORK 2101 – MOUNT ON ROOF FACING NORTH.

06 GENERAL ELECTRICAL LEGEND SCALE : NONE



05 SINGLE LINE DIAGRAM SCALE : NONE

PANEL SCHEDULE

MARK	TYPE	MAINS			BRANCH BREAKERS					MTG.	REMARKS
		TYPE	AMPS	SERVICE	1-POLE	2-POLE	3-POLE	SPARE	SPACES		
RP-SW	SQUARE "D" NQOB	150A MB	225	120/208V 3ø-4W S/N	30-20A			6-20-1	6-20/1	MCC-SW	
RP-HW	GE-AQ	50A MB	100	120/208V 3ø-4W S/N	15-20A 1-20A*			6-20/1	8-20/1	MCC-HW	*GFI

JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

01 PANEL SCHEDULE SCALE : NONE

KREBS
PAUL B. KREBS & ASSOCIATES, INC.
ARCHITECTS / ENGINEERS
BIRMINGHAM · ALBANY · MONTGOMERY

STATE OF ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 11357 WILLIAM C. RENFRO JR.

WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCCOLOCCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA

THE WATER WORKS AND SEWER BOARD OF THE CITY OF ANNISTON

PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	
DATE	JULY 1999

REVISIONS

NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD DRAWING

SHEET TITLE
ELECTRICAL LEGEND, NOTES, SCHEDULES AND S/L DIAGRAM

SHEET NO.
E1.01

SEQUENCE 72 OF 84