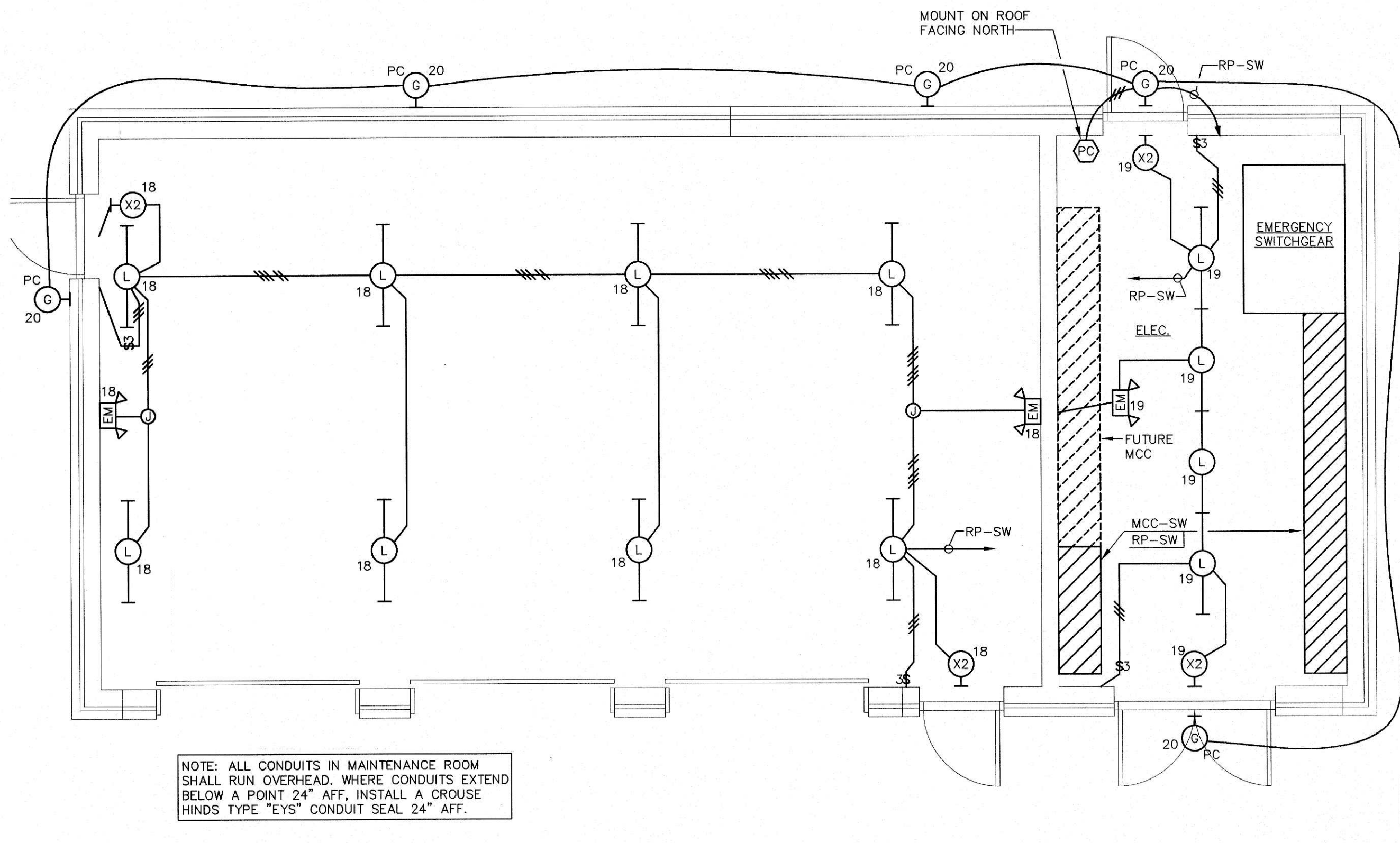
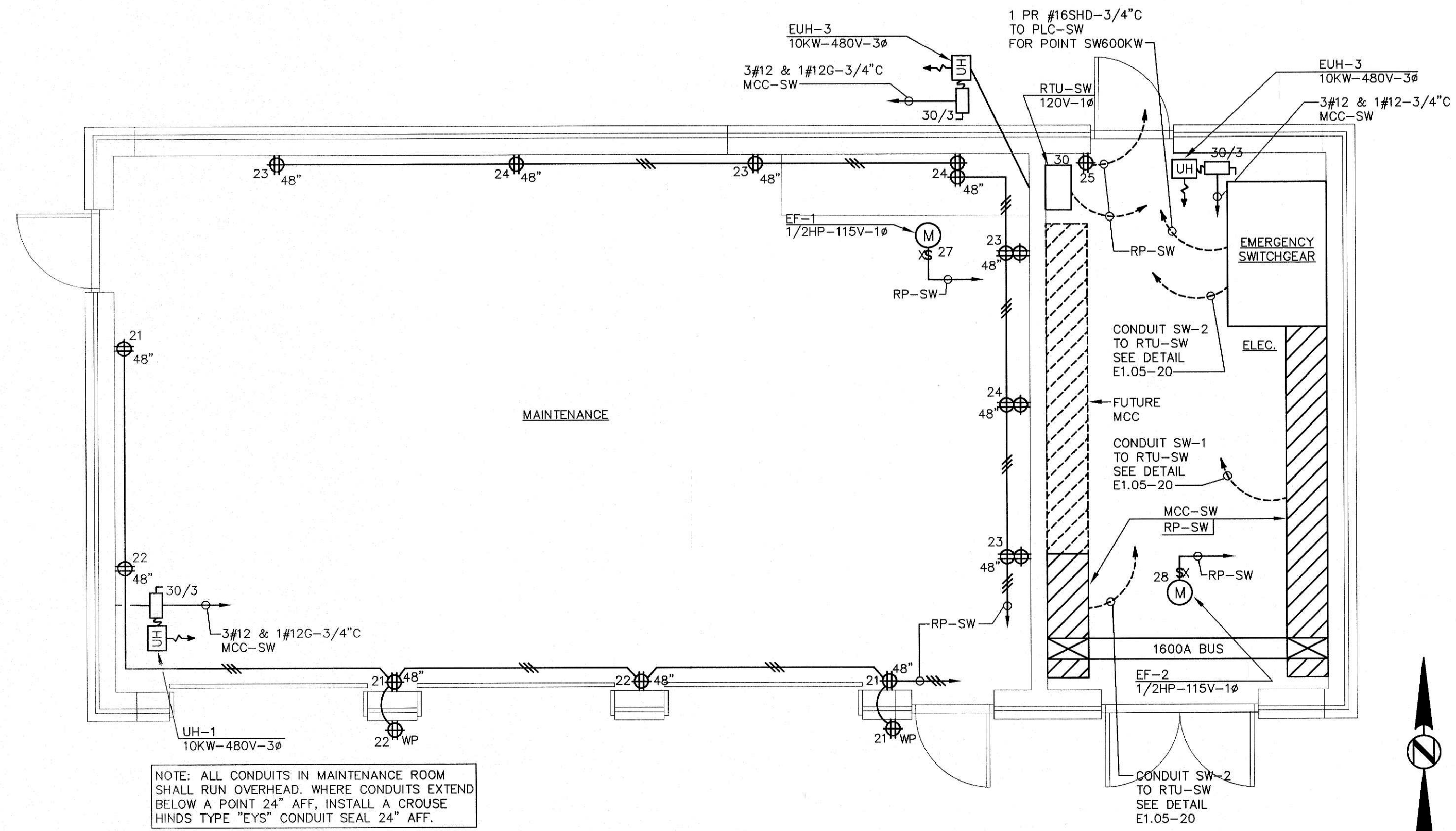




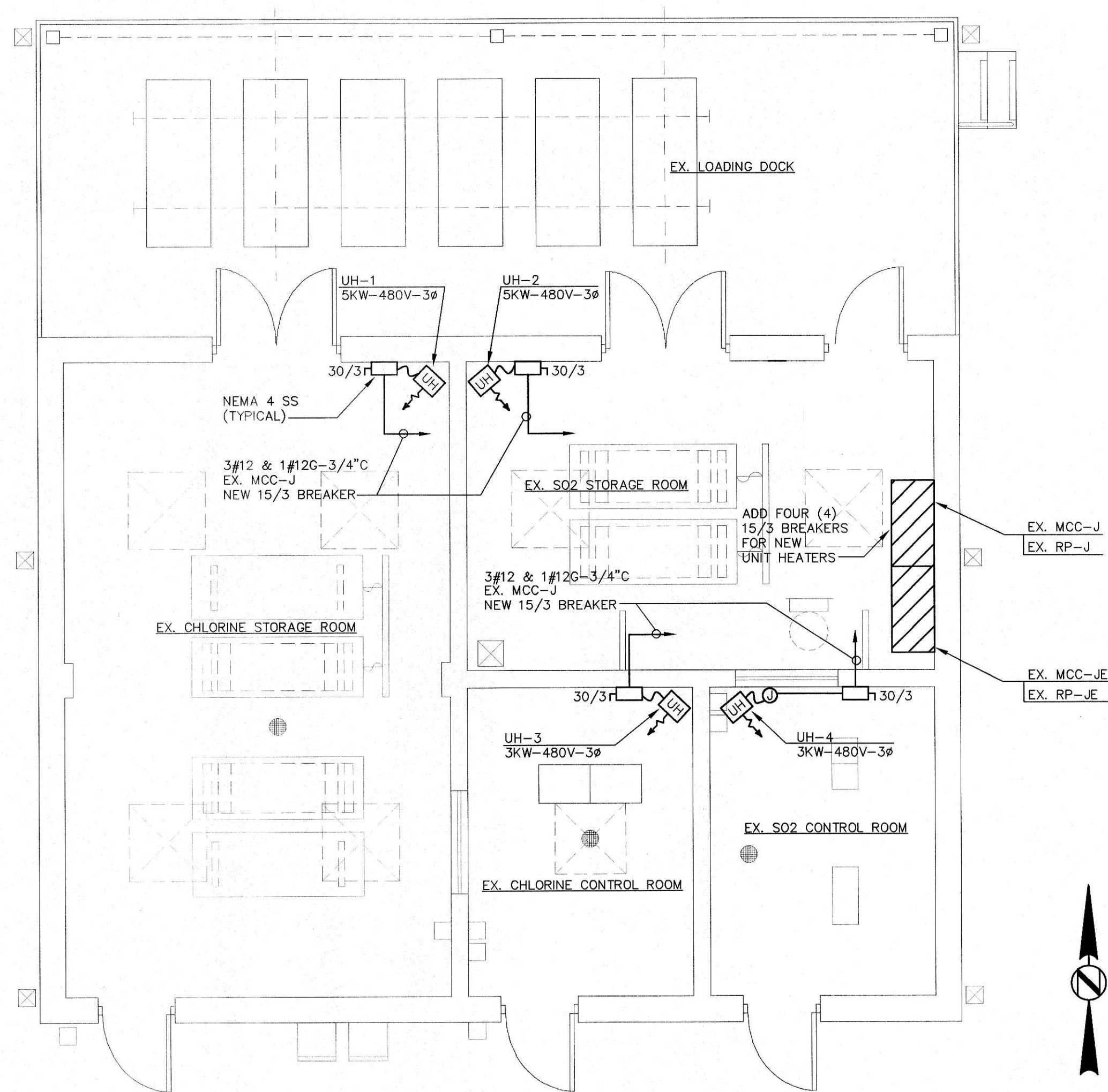
15 MAINTENANCE BUILDING LIGHTING PLAN

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



13 MAINTENANCE BUILDING POWER PLAN

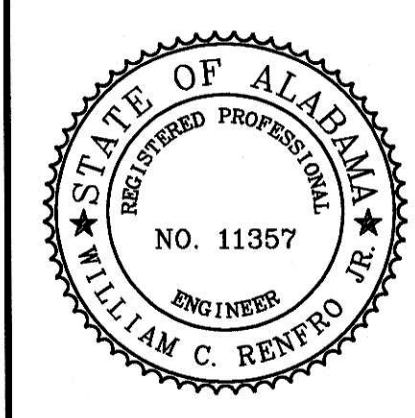
SCALE : 1/4" = 1'-0"



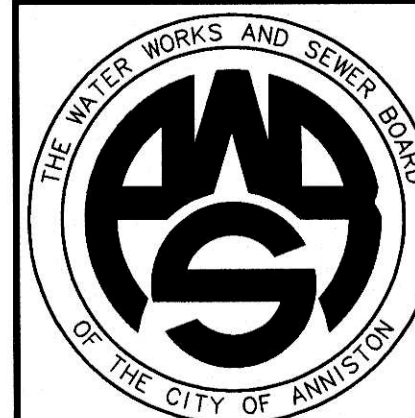
03 CHLORINE/SO2 BUILDING ELECTRICAL PLAN

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

05 ELECTRICAL ROOM-ALTERNATE ARRANGEMENT



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



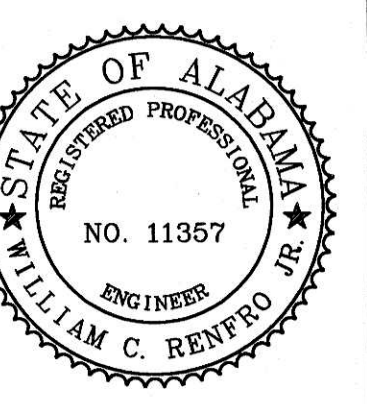
PROJECT NO. 98062		
DESIGNED	WCR	
DRAWN	CAB	
CHECKED	WCR	
APPROVED		
DATE	JULY 1999	
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

**RECORD
DRAWING**

**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



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

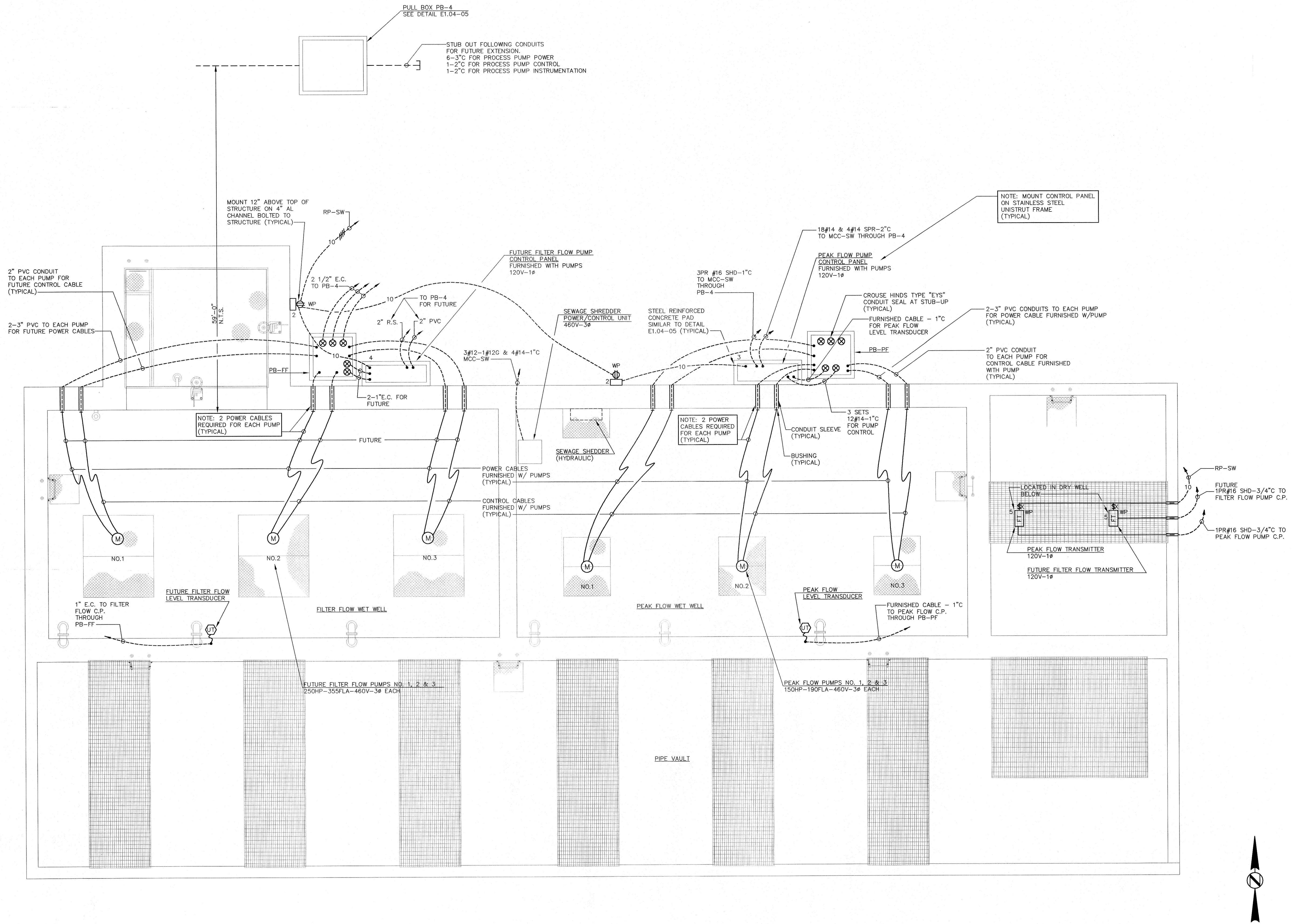


PROJECT NO. 98062		
DESIGNED	WCR	
DRAWN	CAB	
CHECKED	WCR	
APPROVED		
DATE	JULY 1999	
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

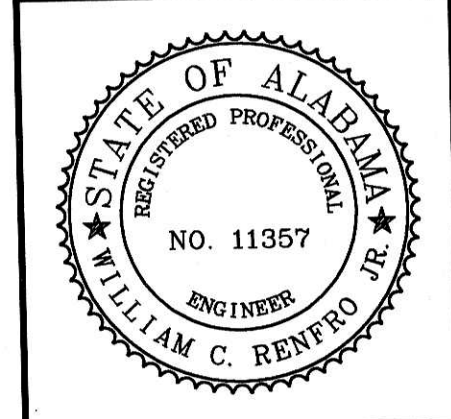
PEAK FLOW
PUMP STATION
ELECTRICAL PLAN

SHEET NO.
E6.02
SEQUENCE 83 OF 84

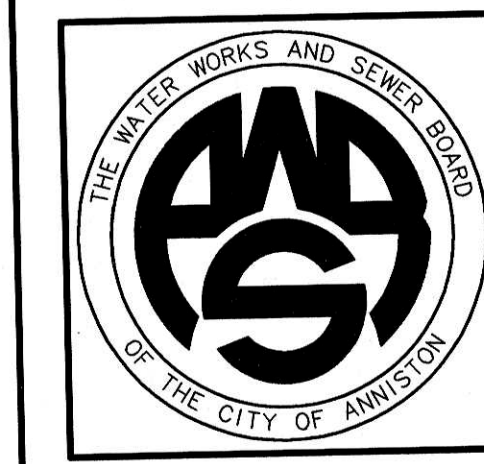


JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

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



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

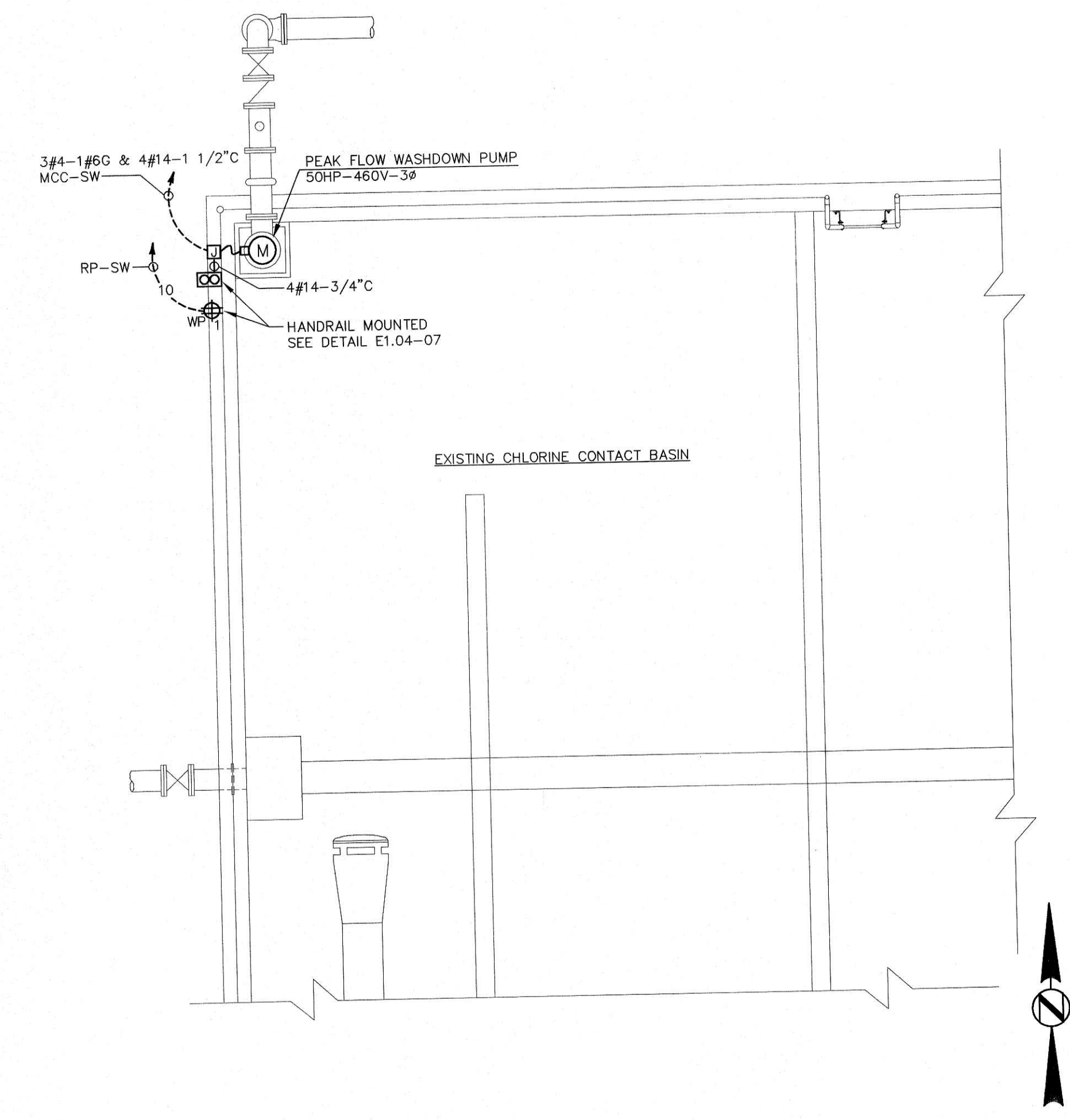


PROJECT NO. 98062		
DESIGNED WCR		
DRAWN CAB		
CHECKED WCR		
APPROVED		
DATE JULY 1999		
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

SHEET TITLE
WASHDOWN PUMP
ELECTRICAL PLAN

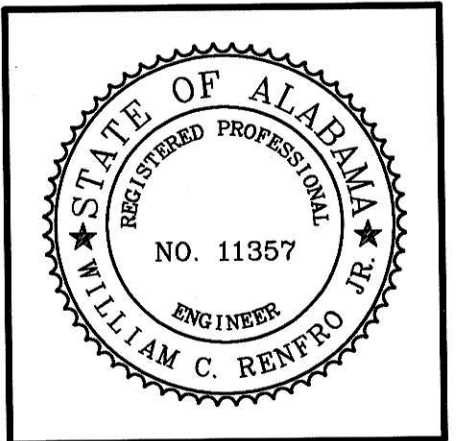
SHEET NO.
E6.01
SEQUENCE 82 OF 84



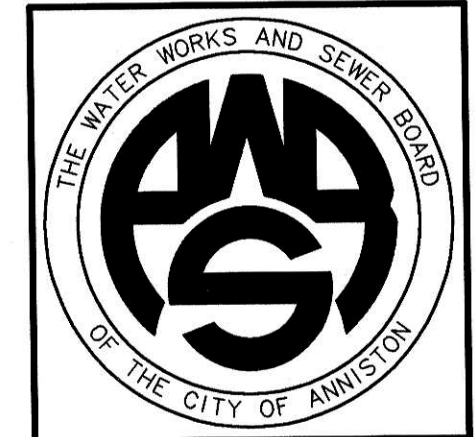
JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

03 PEAK FLOW WASHDOWN PUMP ELECTRICAL PLAN

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



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

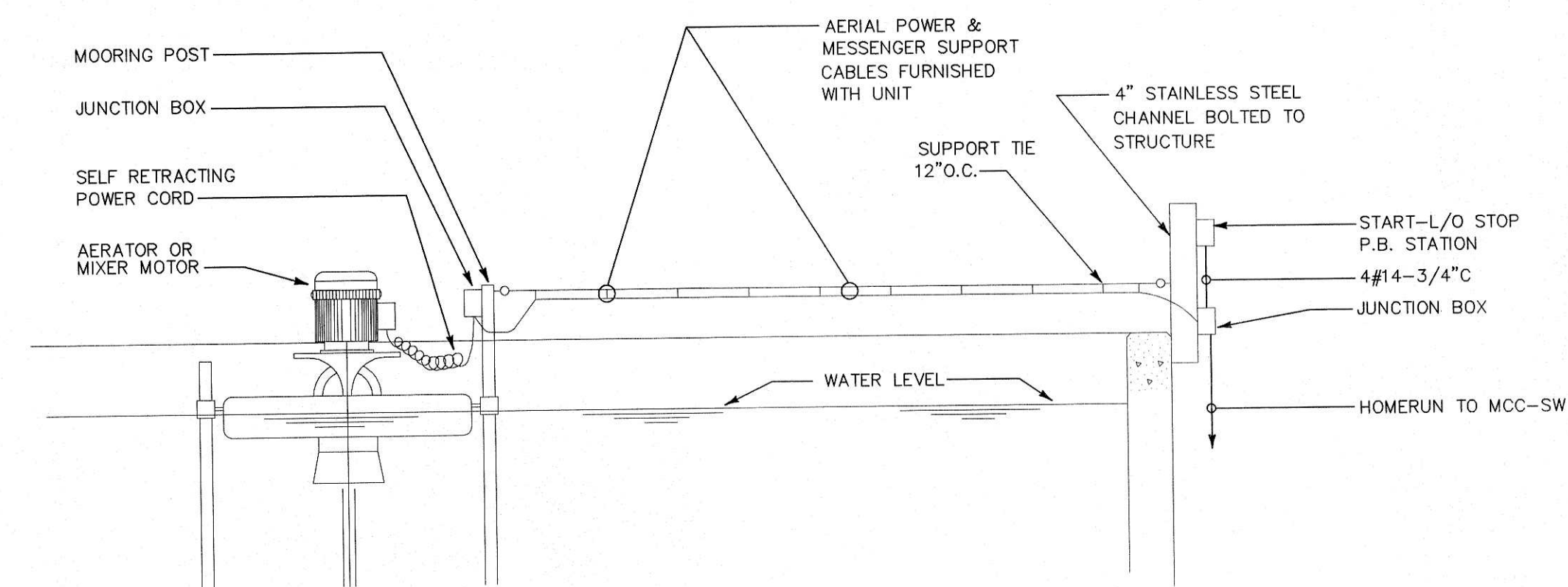
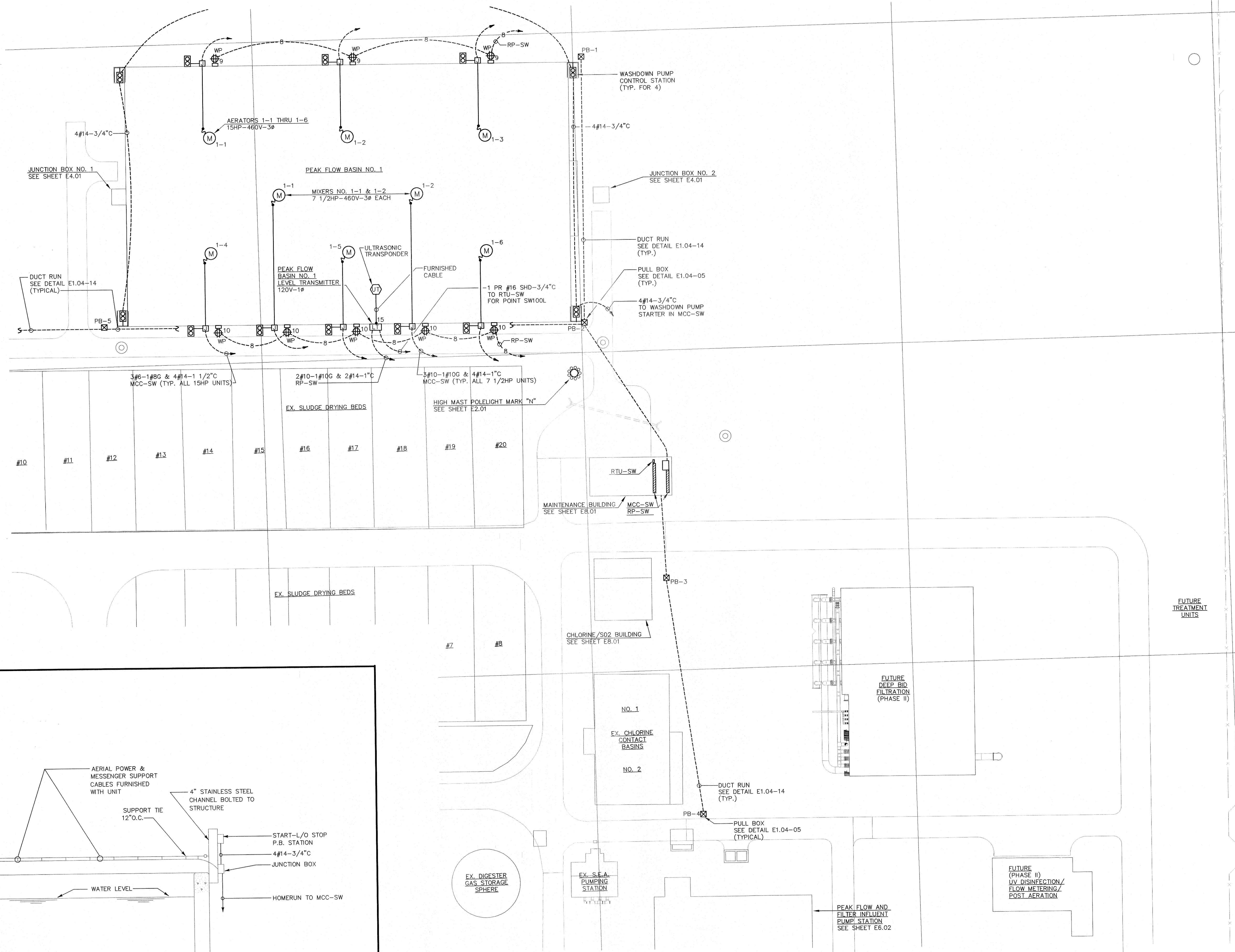


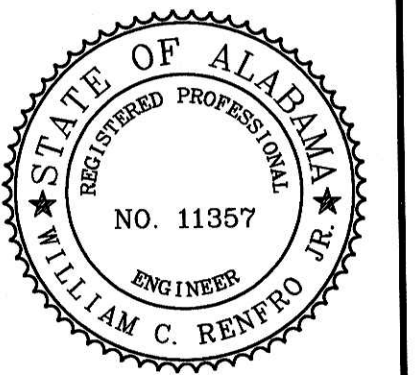
PROJECT NO.		
98062		
DESIGNED		
WCR		
DRAWN		
CAB		
CHECKED		
WCR		
APPROVED		
DATE		
JULY 1999		
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

**RECORD
DRAWING**

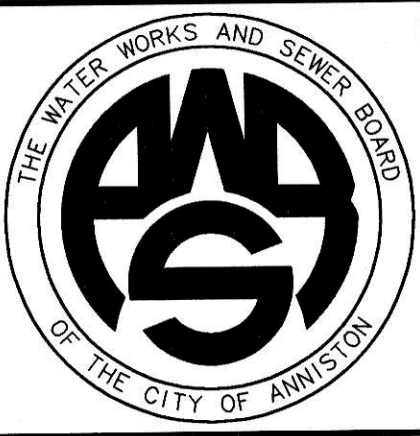
**PEAK FLOW BASIN
ELECTRICAL PLAN
BASE BID**

E5.01
SEQUENCE 81 OF 84





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



PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	

DATE JULY 1999

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

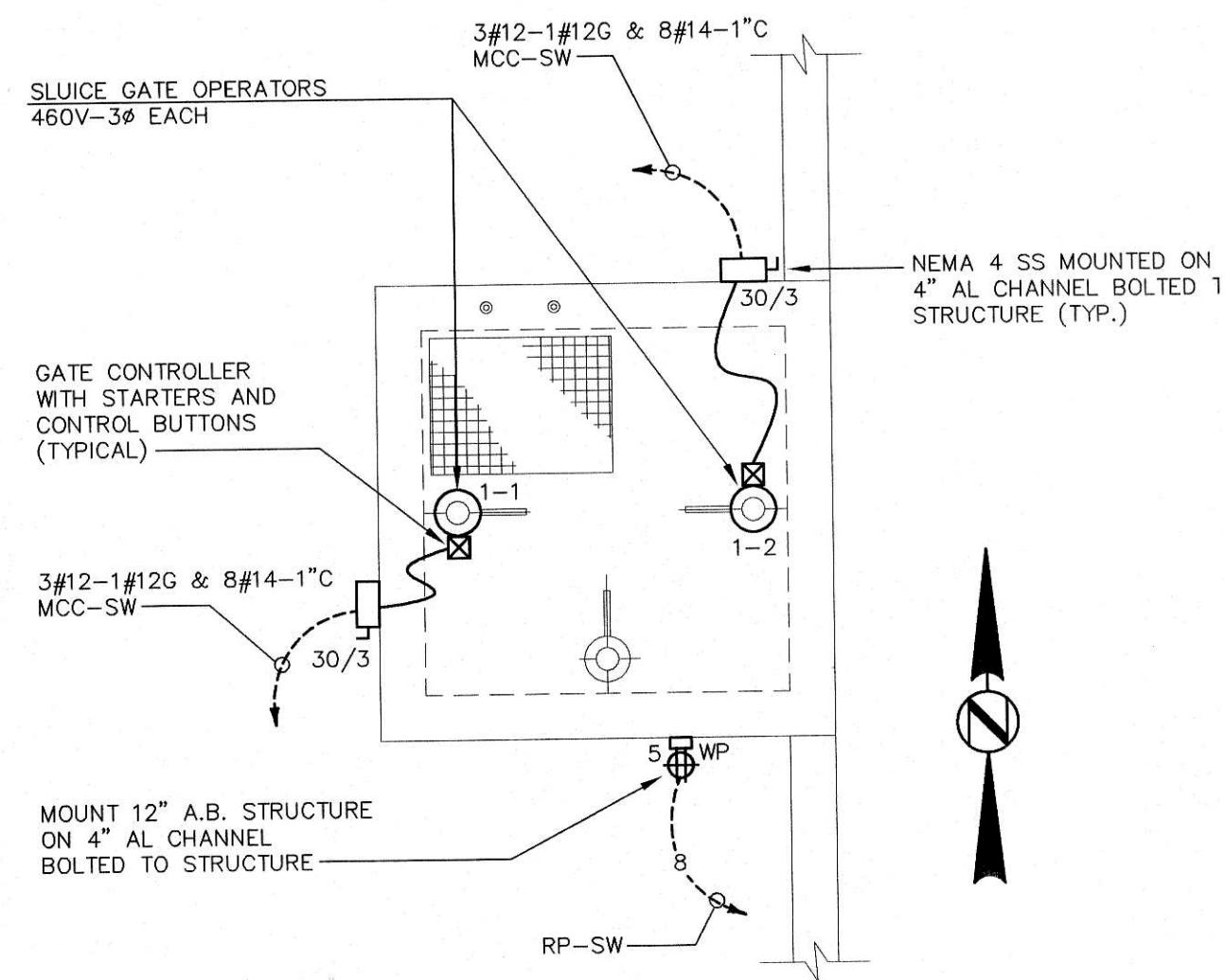
RECORD
DRAWING

SHEET TITLE
GRIT BASINS &
JUNCTION BOXES
ELECTRICAL PLANS

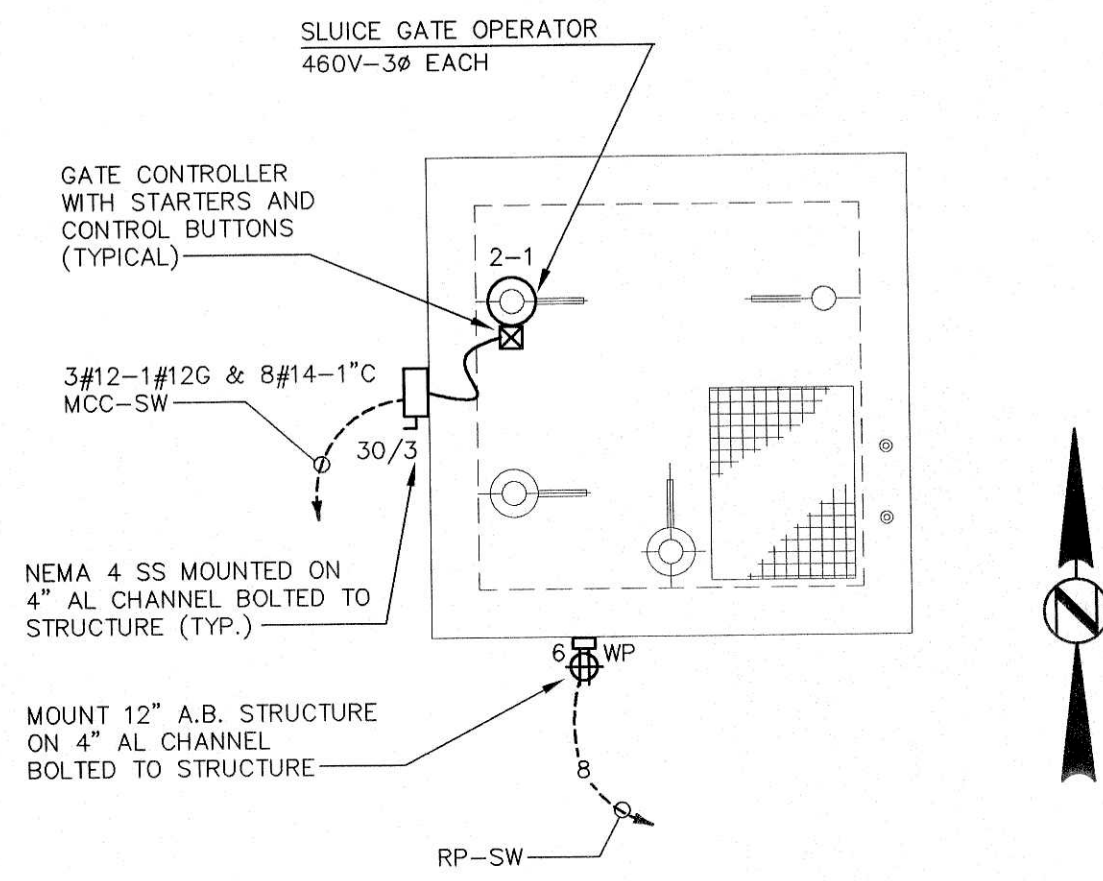
SHEET NO.

E4.01

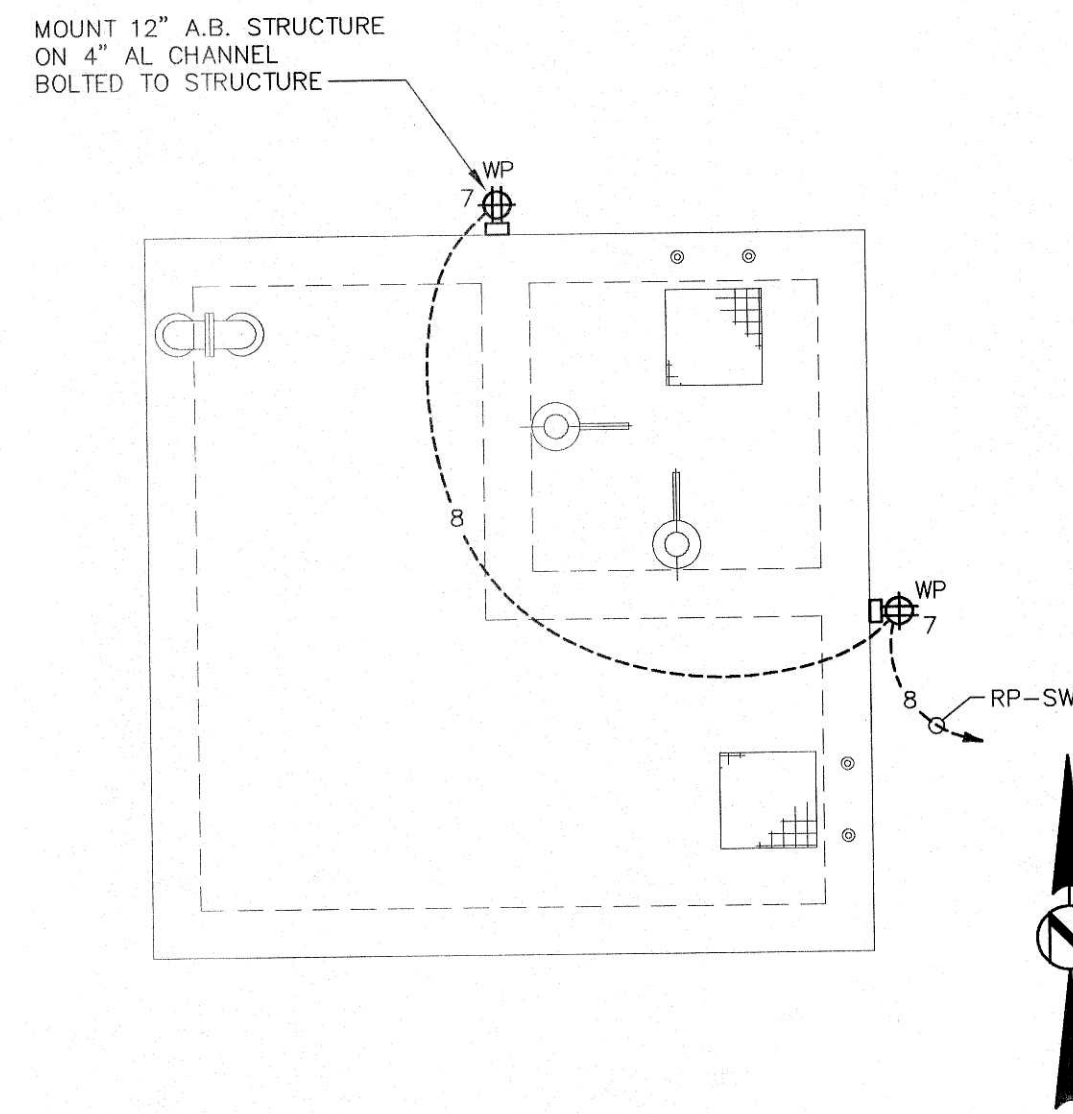
SEQUENCE 80 OF 84



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

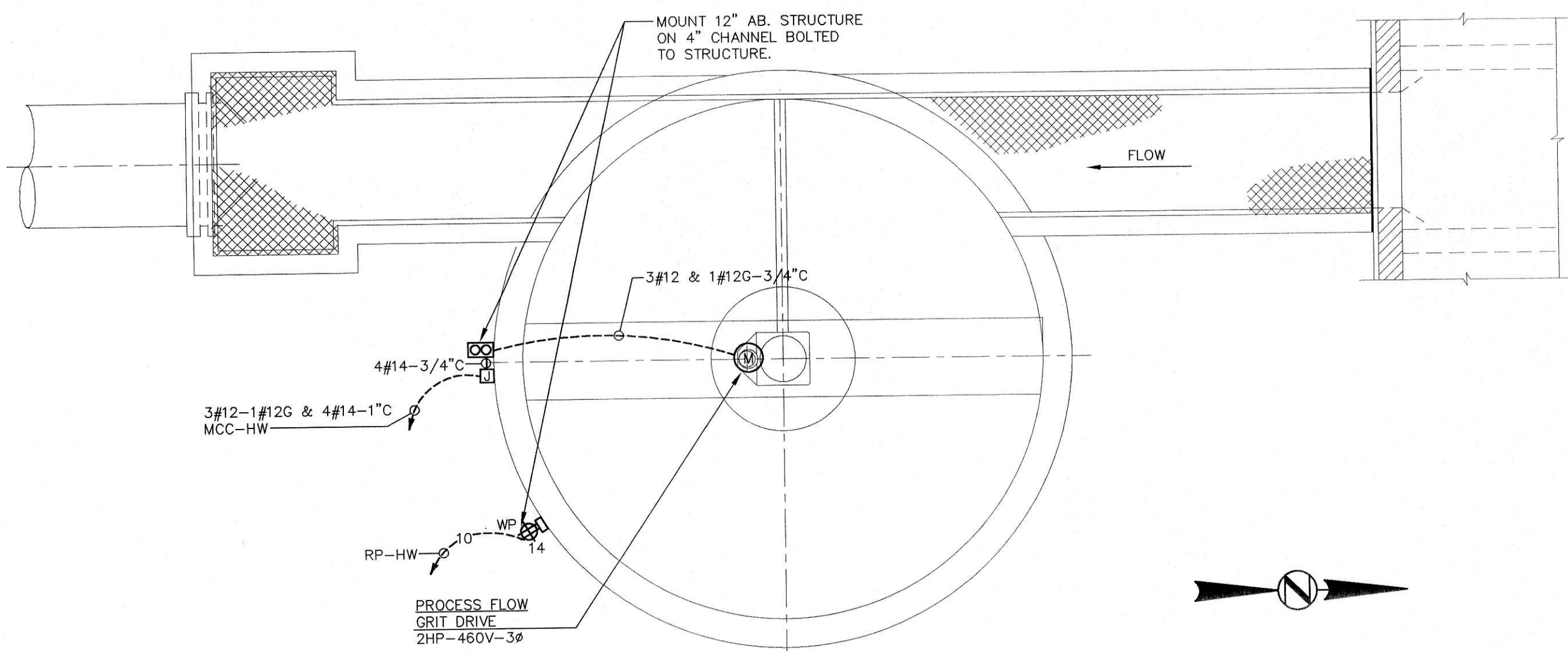


09 J.B. NO. 2 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



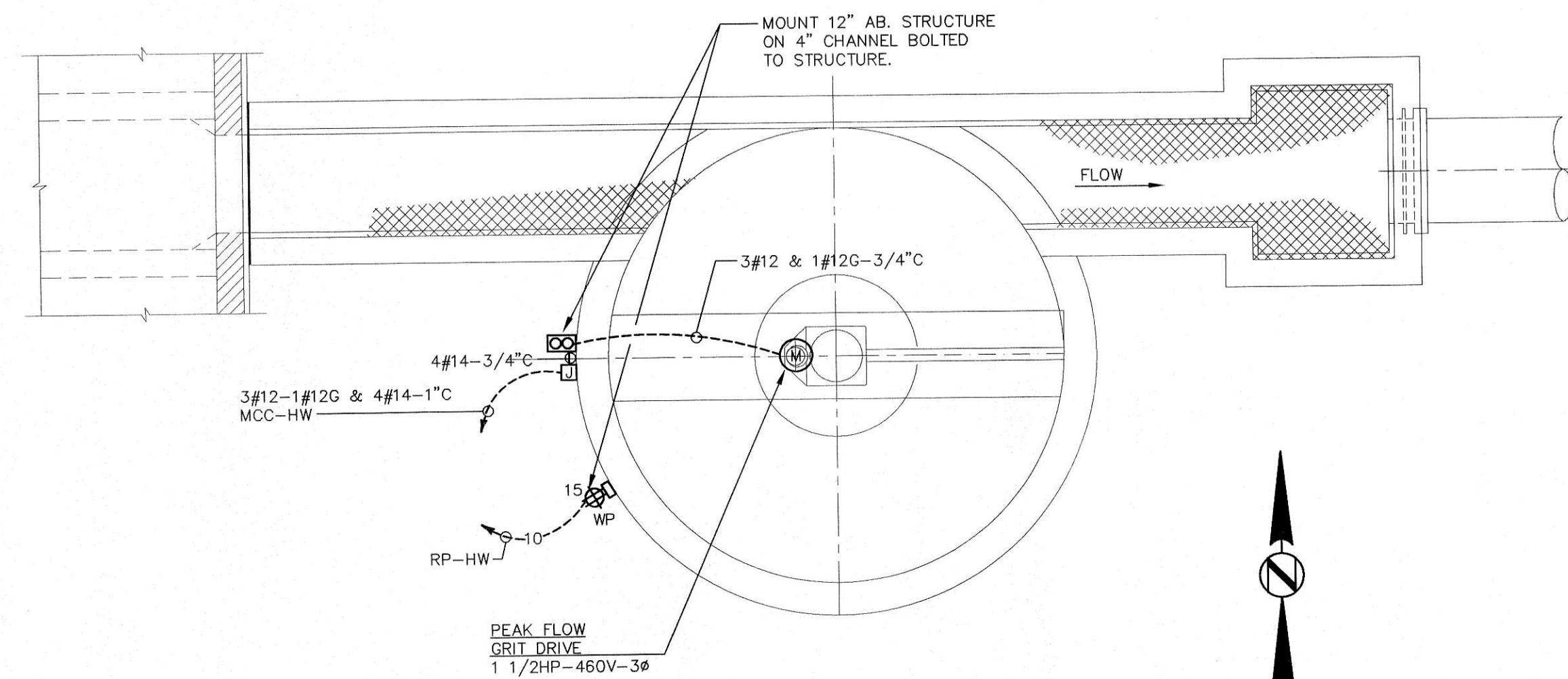
08 J.B. NO. 3 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"

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



05 PROCESS FLOW GRIT BASIN ELECTRICAL PLAN

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



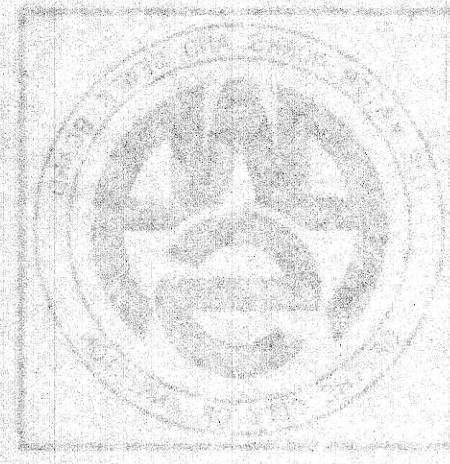
02 PEAK FLOW GRIT BASIN ELECTRICAL PLAN

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

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

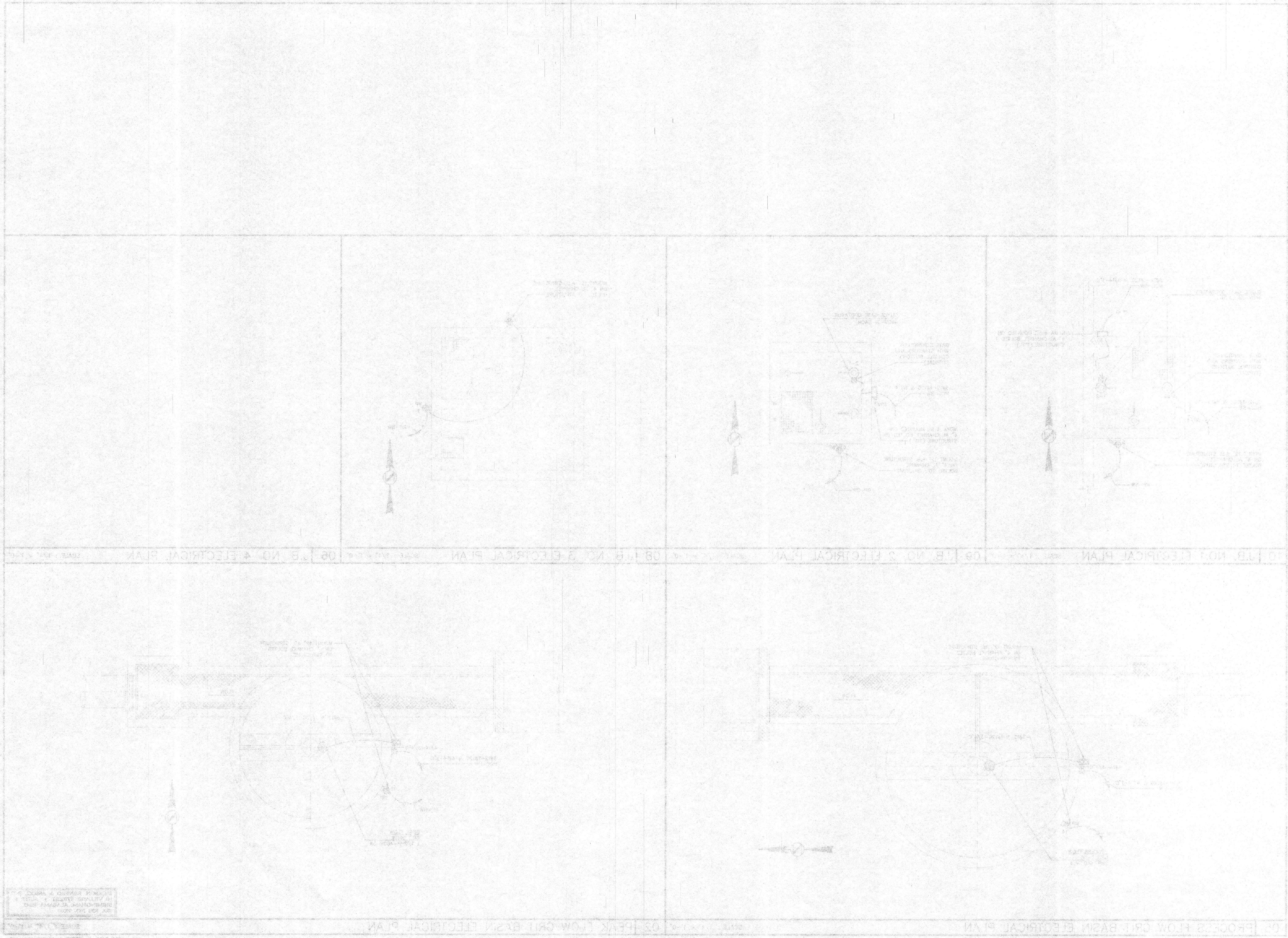


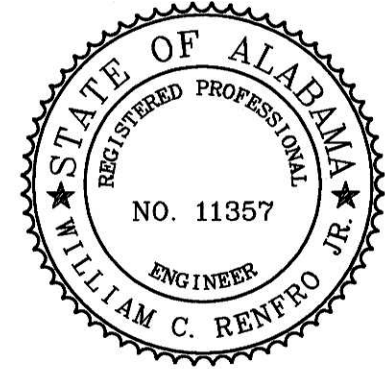
WATER WORKS & SEWER BOARD
CITY OF WICHITA
CHOCOLOGOCCO WATERS
IMPROVEMENT DISTRICT
AMARILLA DISTRICT



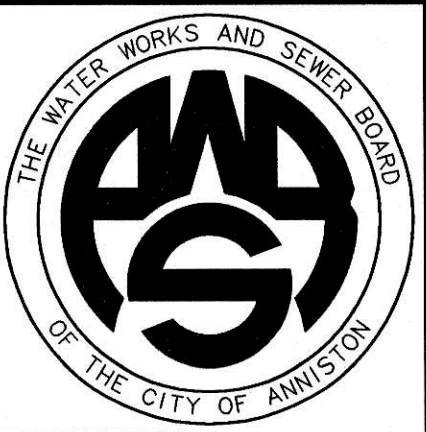
DRAWING RECORD
DATE: 11-17-00
BY: J. J. JONES
CHECKED: J. J. JONES
APPROVED: J. J. JONES

ELECTRIC PLANS
CITY OF WICHITA
14.01





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

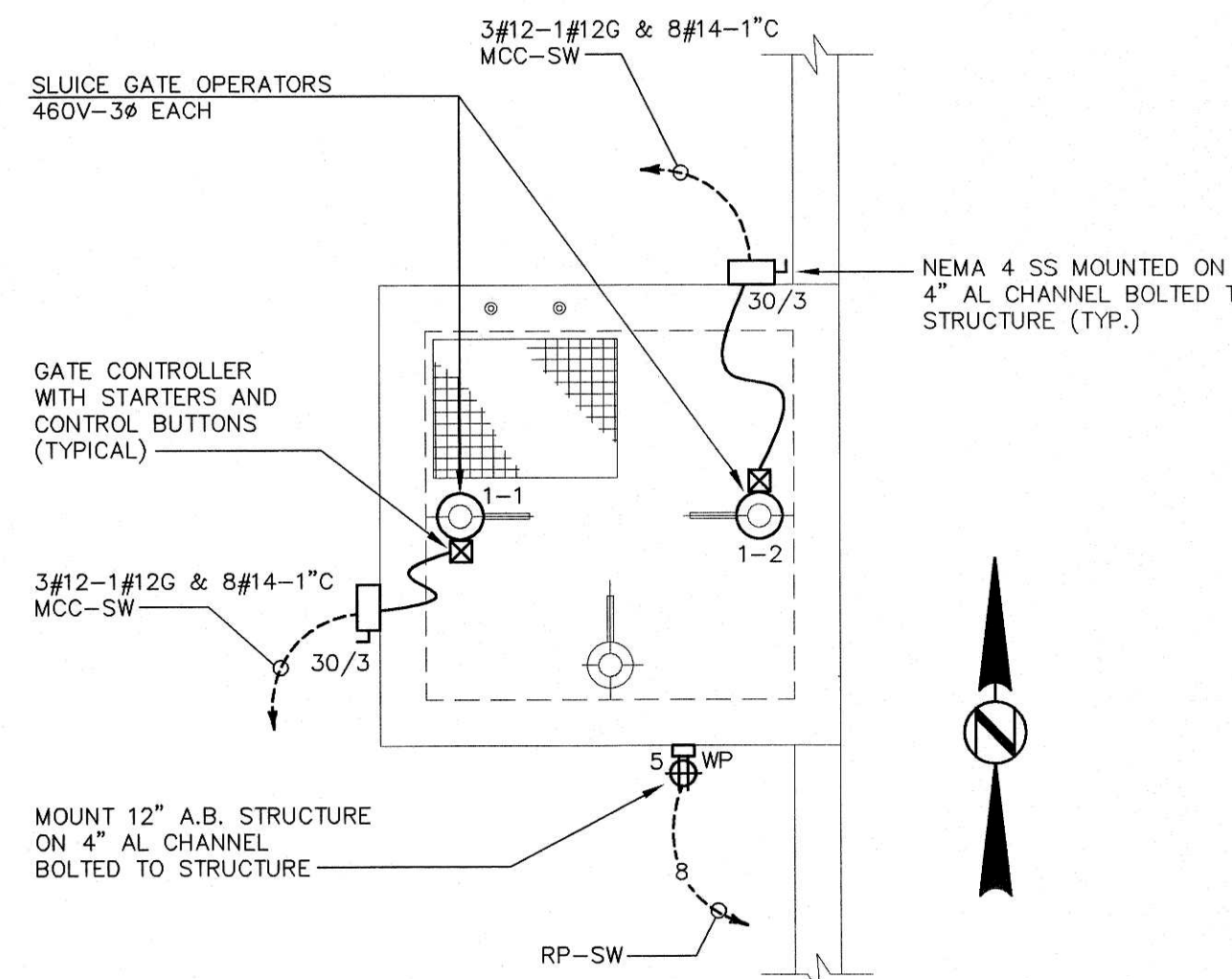


PROJECT NO.			98062		
DESIGNED			WCR		
DRAWN			CAB		
CHECKED			WCR		
APPROVED					
DATE			JULY 1999		
REVISIONS					
NO.		DATE		DESCRIPTION	
1		11-17-06		RECORD DRAWING	

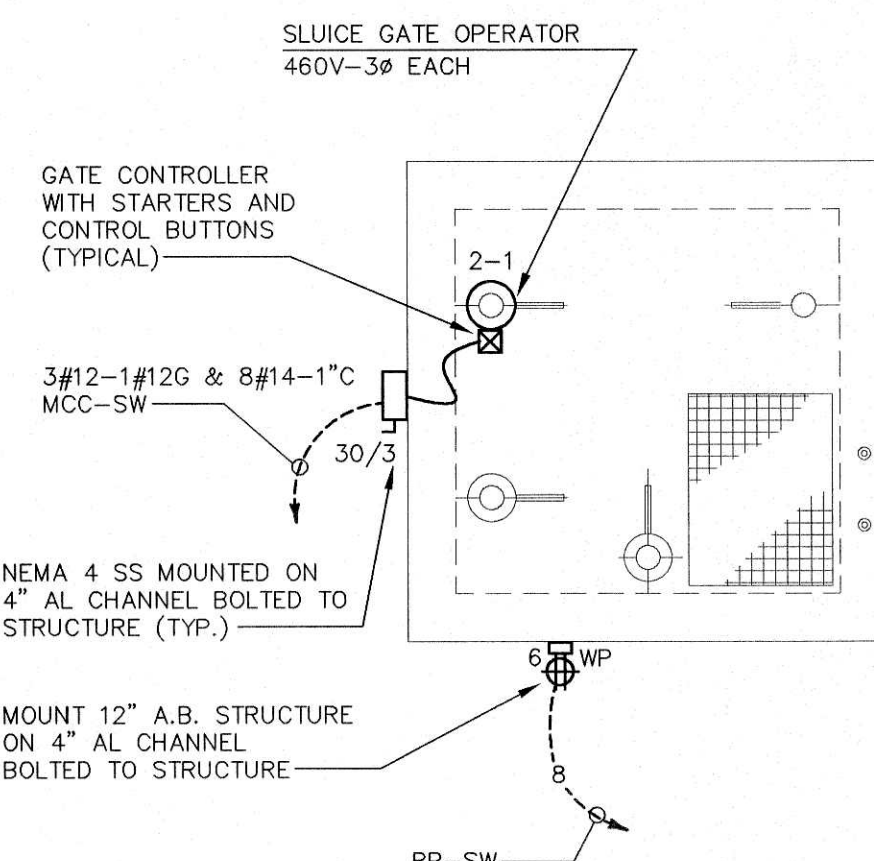
RECORD
DRAWING

SHEET TITLE
GRIT BASINS &
JUNCTION BOXES
ELECTRICAL PLANS

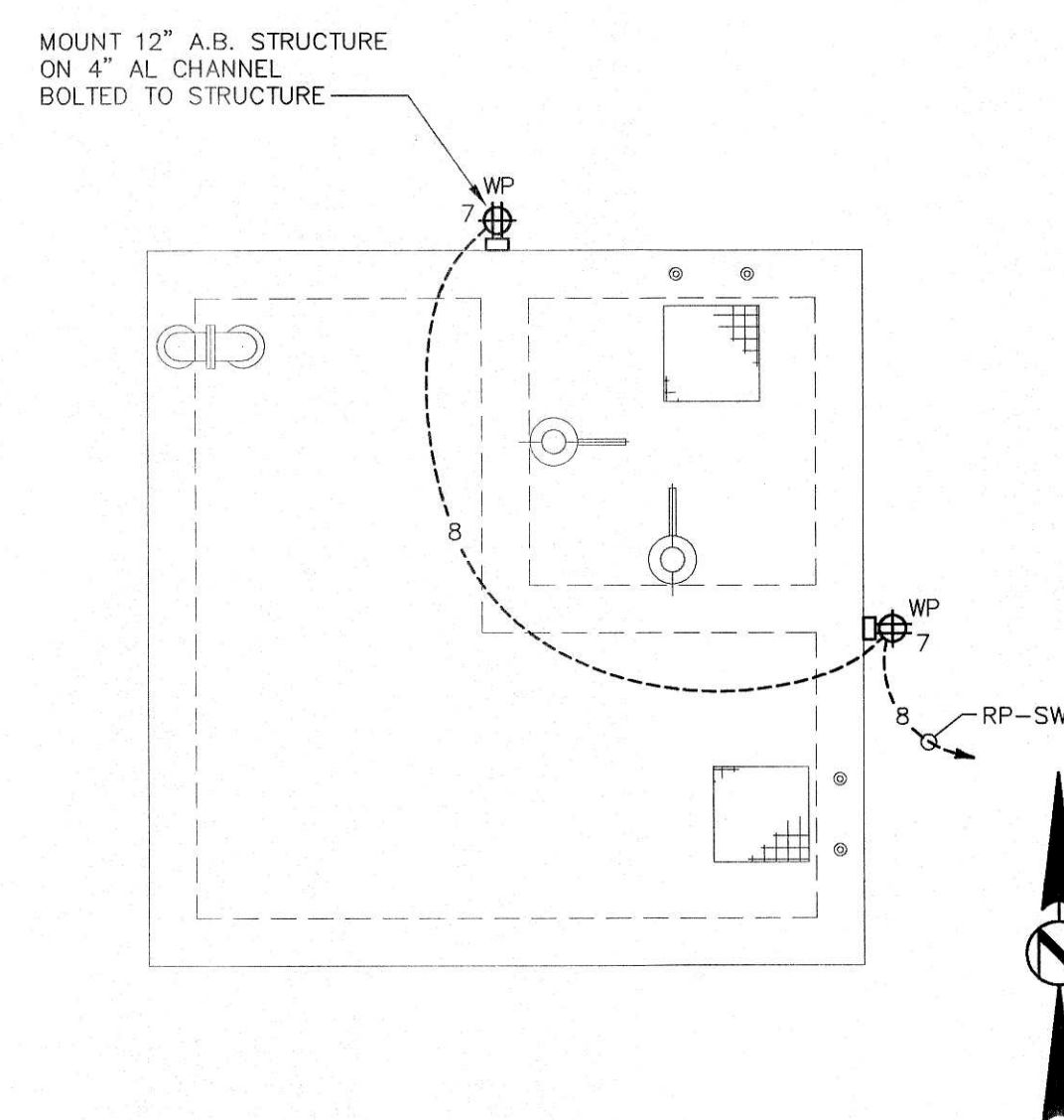
SHEET NO.
E4.01
SEQUENCE 80 OF 84



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



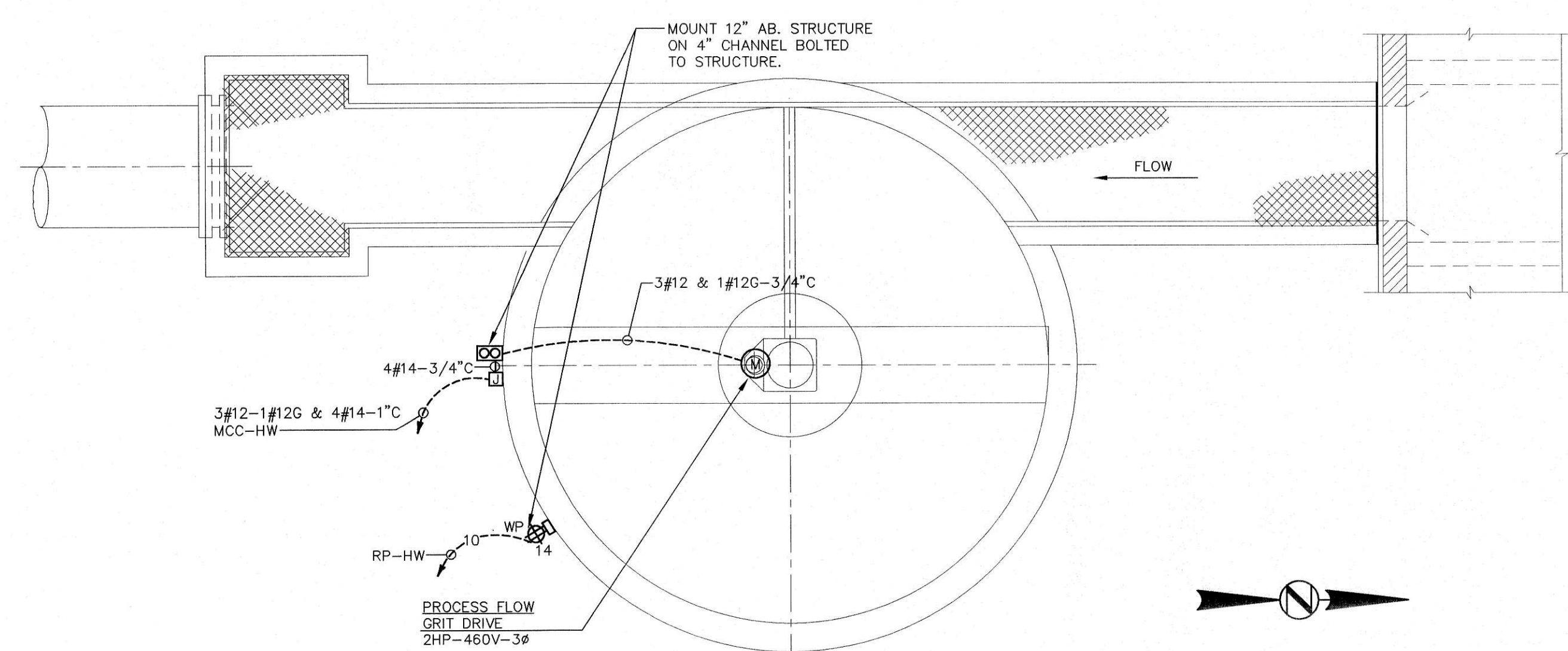
09 J.B. NO. 2 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



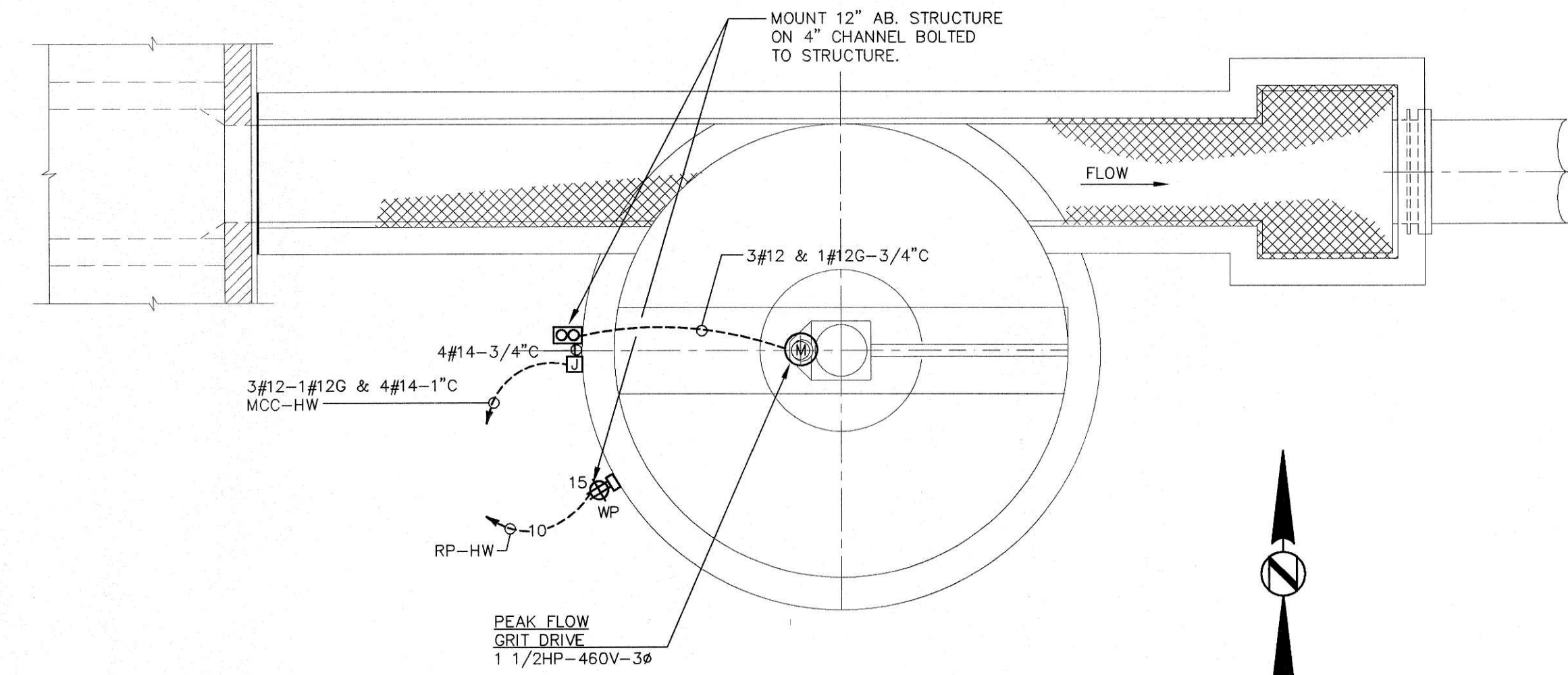
08 J.B. NO. 3 ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



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

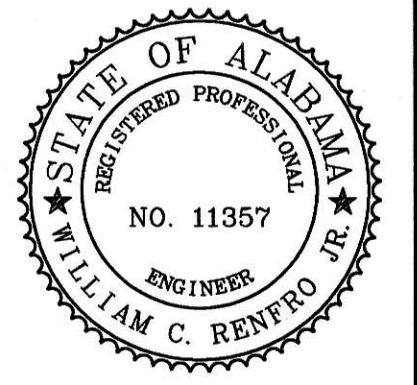


05 PROCESS FLOW GRIT BASIN ELECTRICAL PLAN SCALE : 1/4" = 1'-0"



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



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

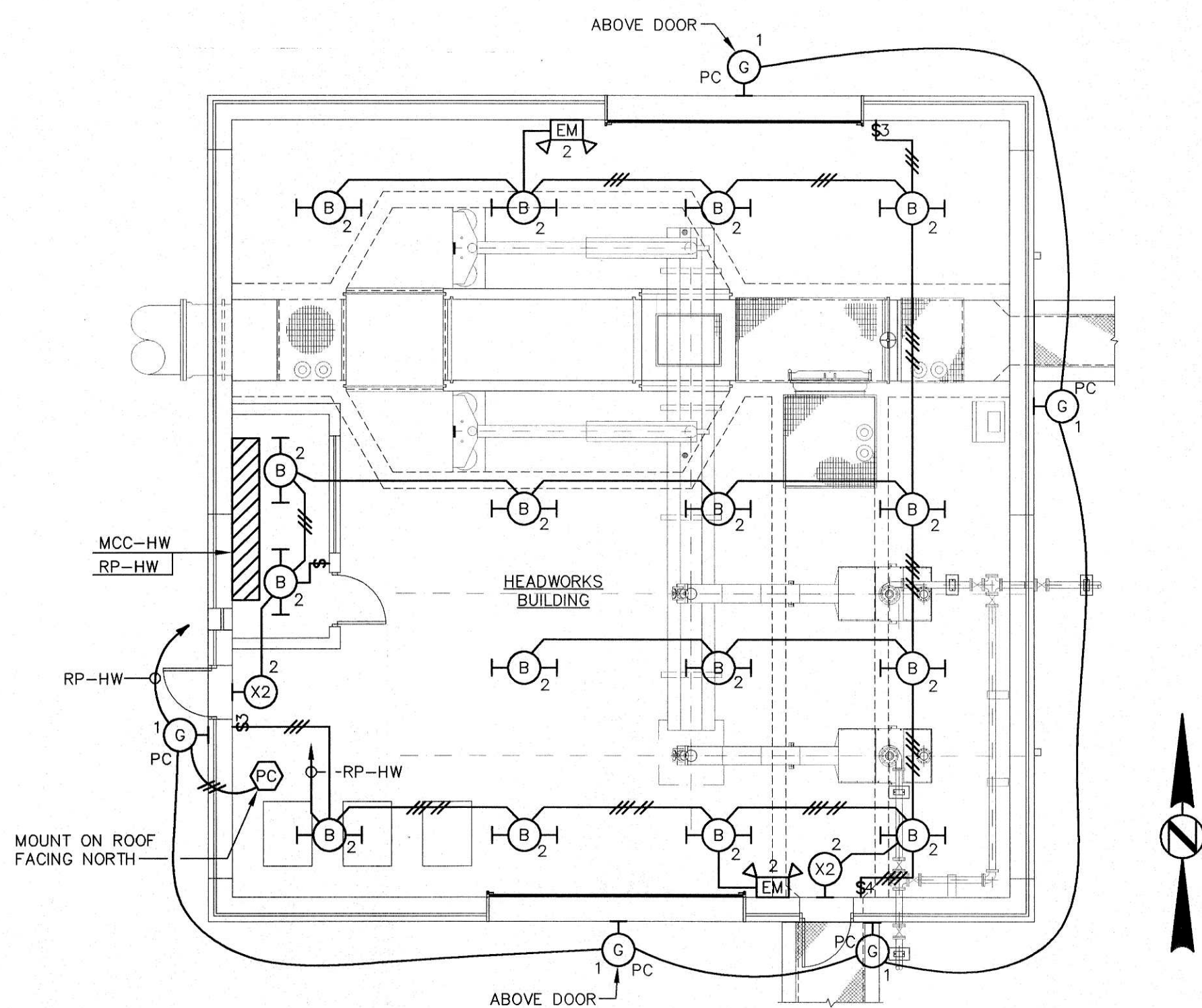


PROJECT NO.	98062	
DESIGNED	WCR	
DRAWN	CAB	
CHECKED	WCR	
APPROVED		
DATE	JULY 1999	
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

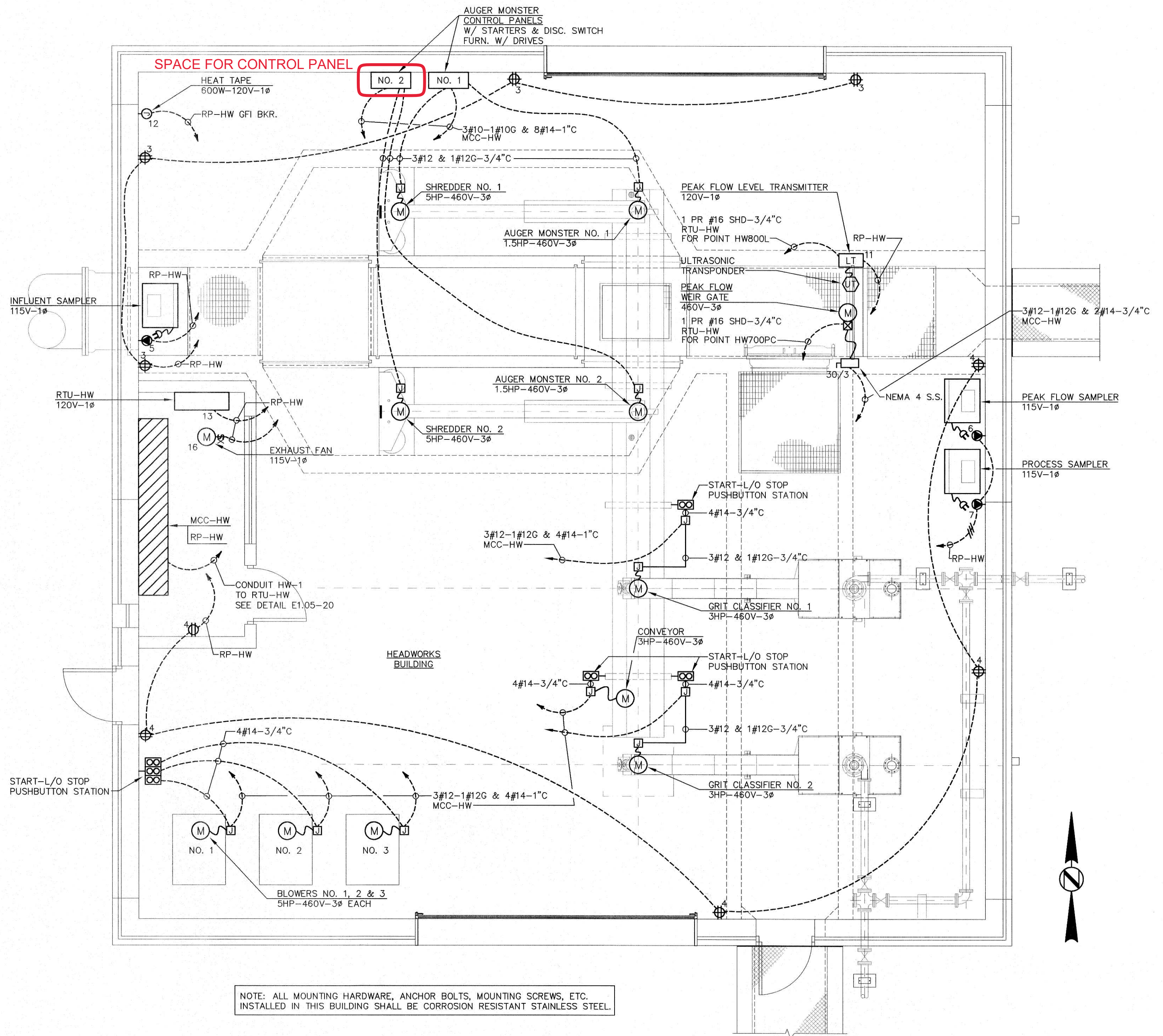
SHEET TITLE
HEADWORKS BUILDING
ELECTRICAL PLANS

SHEET NO.
E3.01
SEQUENCE 79 OF 84



05 HEADWORKS BUILDING LIGHTING PLAN

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

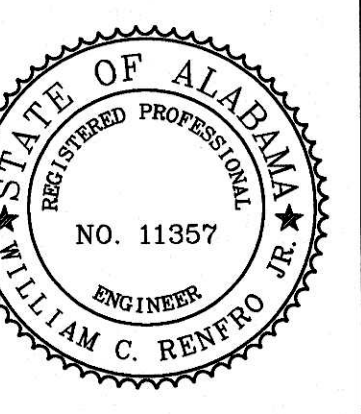


NOTE: ALL MOUNTING HARDWARE, ANCHOR BOLTS, MOUNTING SCREWS, ETC.
INSTALLED IN THIS BUILDING SHALL BE CORROSION RESISTANT STAINLESS STEEL.

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

03 HEADWORKS BUILDING POWER PLAN

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



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



PROJECT NO.	98062
DESIGNED	WCR
DRAWN	CAB
CHECKED	WCR
APPROVED	

DATE JULY 1999

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

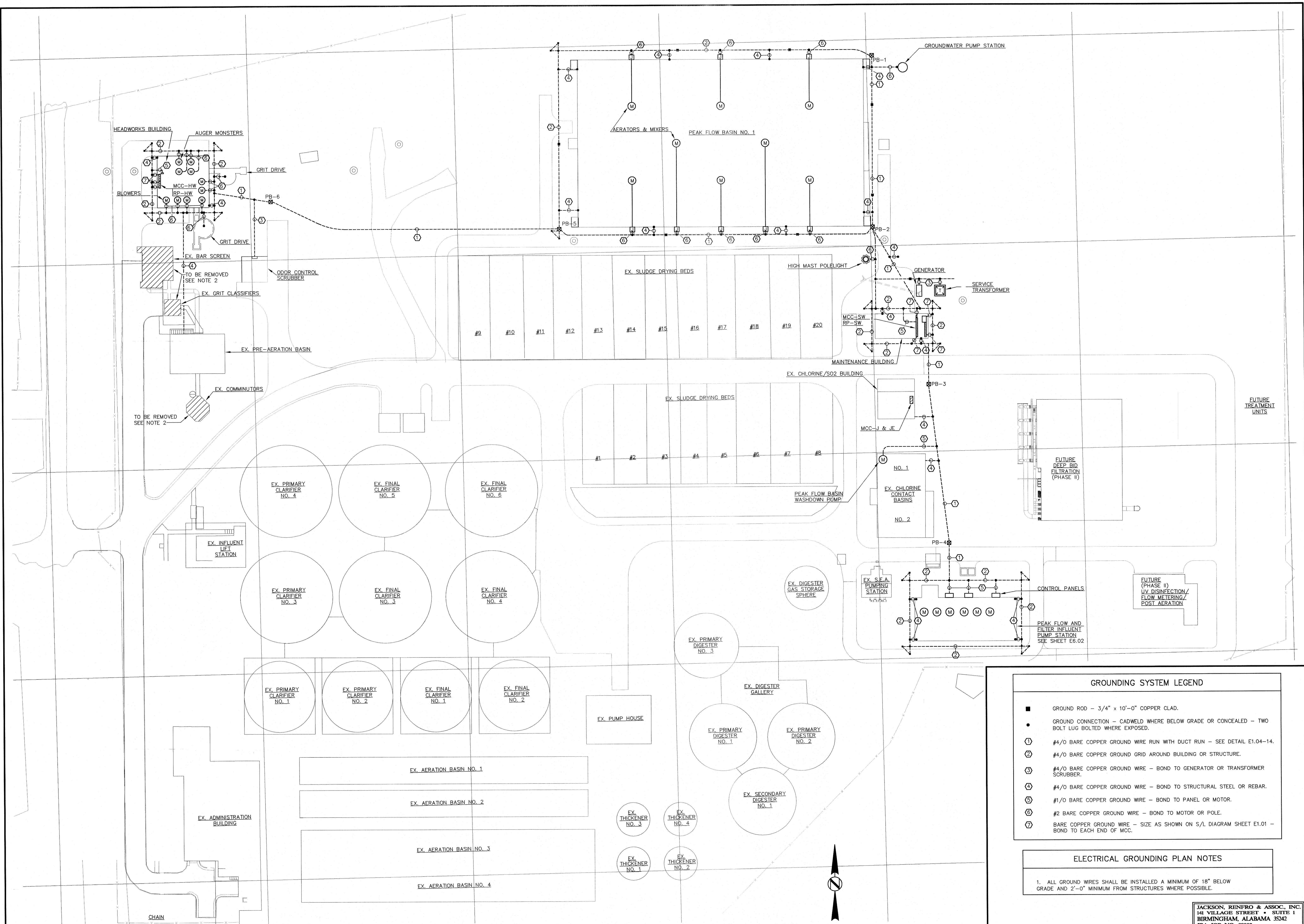
RECORD
DRAWING

ELECTRICAL
GROUNDING PLAN
& DETAILS
BASE BID

SHEET NO.

E2.02

SEQUENCE 78 OF 84



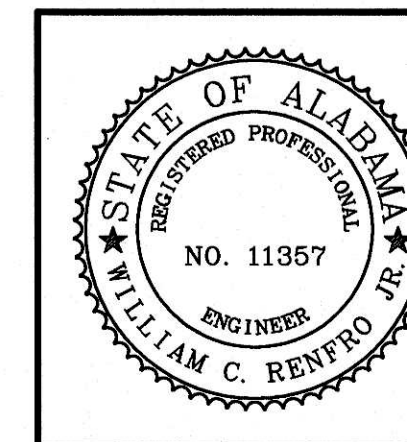
GROUNDING SYSTEM LEGEND

- 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/O BARE COPPER GROUND WIRE RUN WITH DUCT RUN - SEE DETAIL E1.04-14.
- ② #4/O BARE COPPER GROUND GRID AROUND BUILDING OR STRUCTURE.
- ③ #4/O BARE COPPER GROUND WIRE - BOND TO GENERATOR OR TRANSFORMER SCRUBBER.
- ④ #4/O BARE COPPER GROUND WIRE - BOND TO STRUCTURAL STEEL OR REBAR.
- ⑤ #1/O 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.

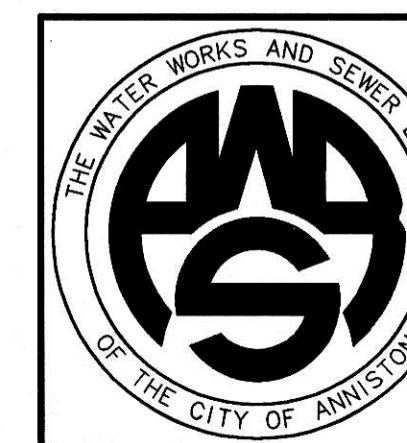
ELECTRICAL GROUNDING PLAN NOTES

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



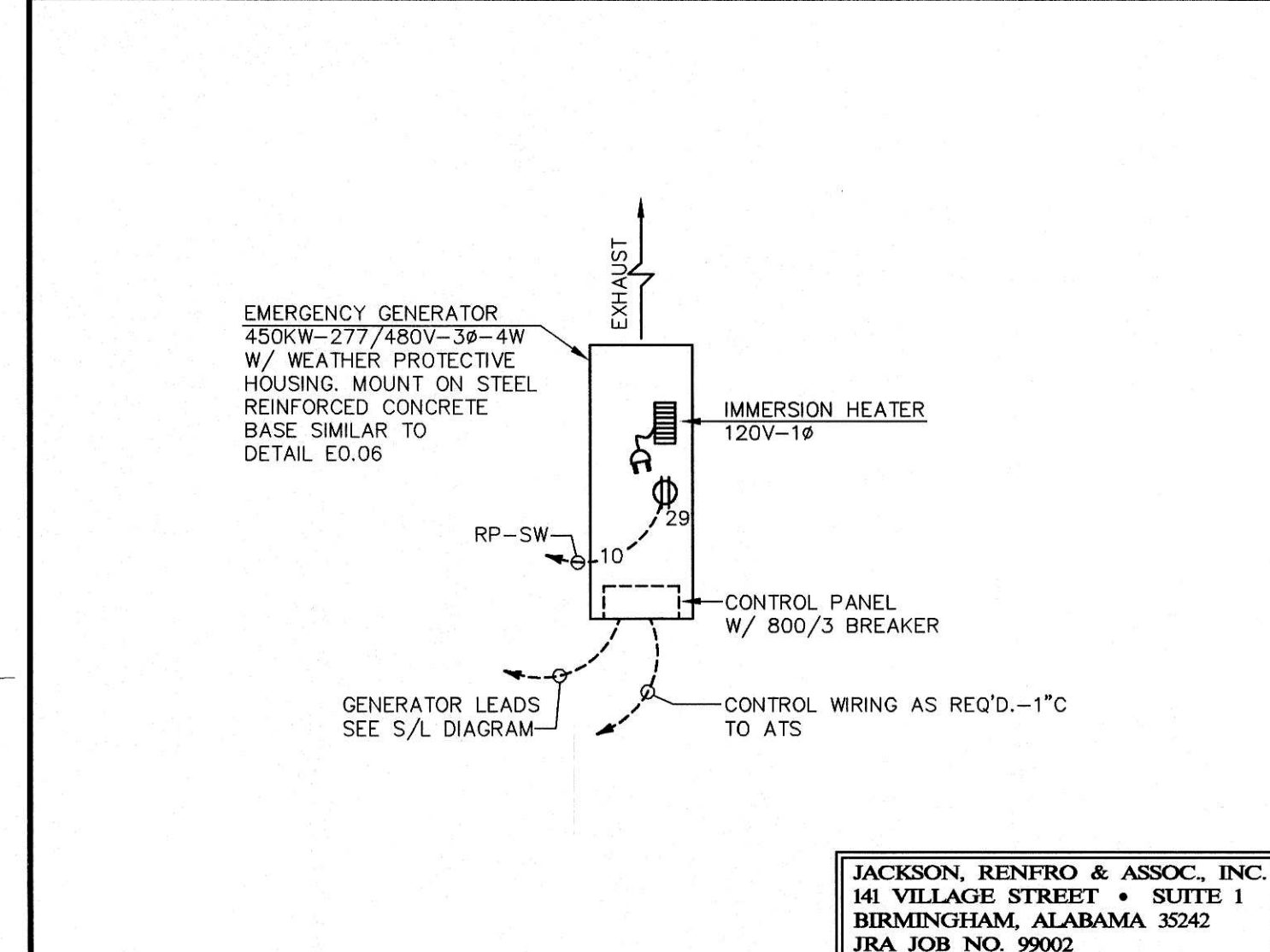
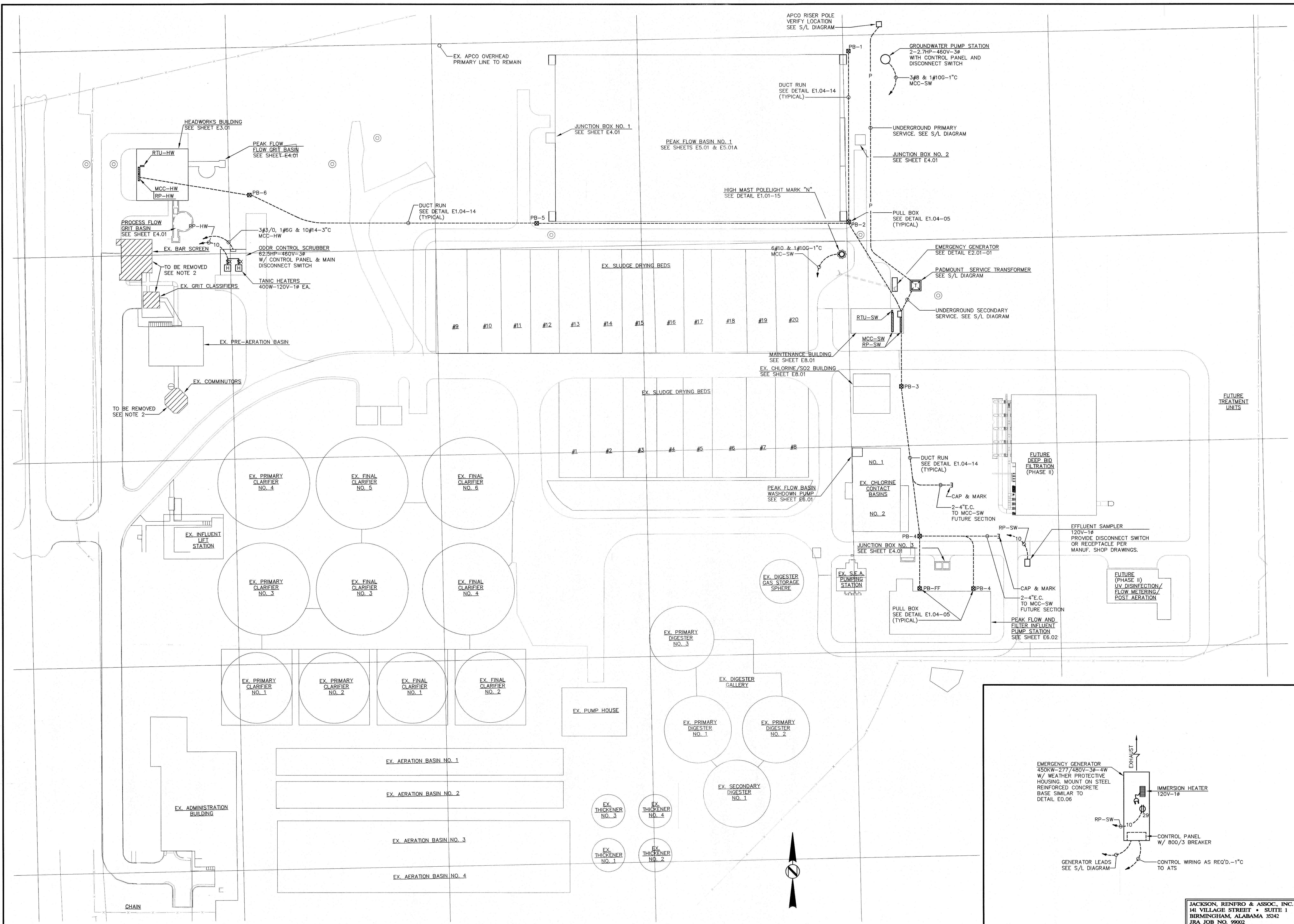
**WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCOLOCCO WWTP
IMPROVEMENTS**

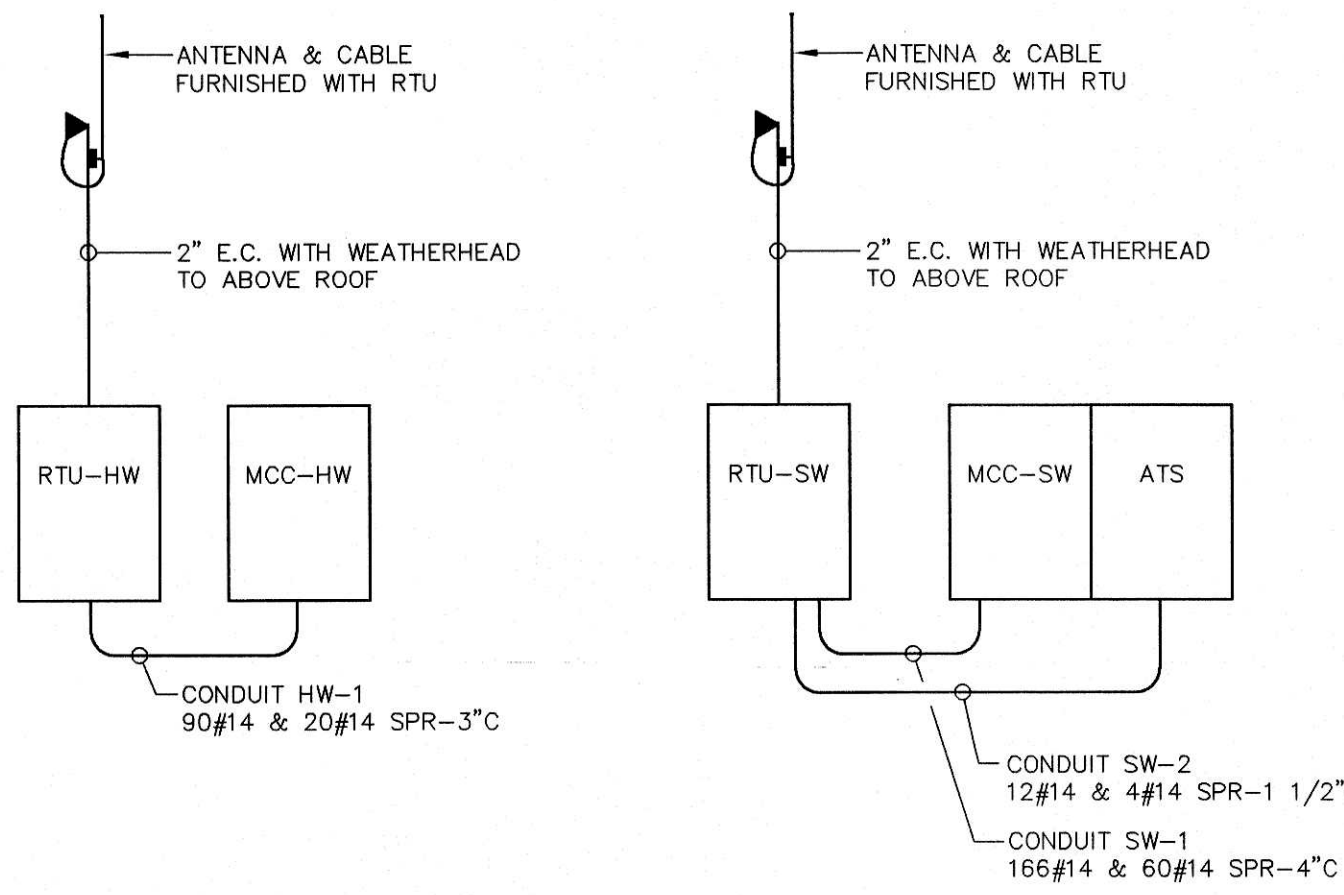


PROJECT NO.		
98062		
DESIGNED		
WCR		
DRAWN		
CAB		
CHECKED		
WCR		
APPROVED		
DATE		
JULY 1999		
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

**RECORD
DRAWING**

SHEET TITLE	ELECTRICAL 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

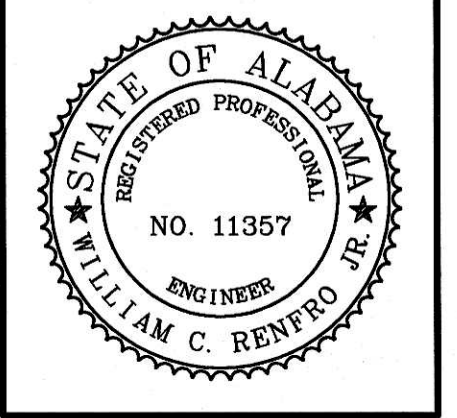
03 SCADA SYSTEM WIRING SCHEDULE

SCADA SYSTEM WIRING SCHEDULE (CONTINUED)								
EQUIPMENT	DESCRIPTION	TYPE	PREFIX	NO.	FROM	TO	WIRE	CONDUIT
PEAK FLOW BASIN NO.1	LEVEL LOW LEVEL CUT OFF	AI DI	SW100L SW100C		XMTR. MCC-SW	RTU-SW RTU-SW	1 PR #16 SHD. 2 #14	3/4" C SW-1
PEAK FLOW WASHDOWN PUMP	ON/OFF STATUS ALARM	DI DI	SW400S SW400A		MCC-SW MCC-SW	RTU-SW RTU-SW	2 #14 2 #14	SW-1 SW-1
PEAK FLOW PUMP NO.1	HOA SWITCH POSITION ON/OFF STATUS ALARM SPEED CONTROL	DI DI DI AO	SW501P SW501S SW501A SW501SC		MCC-SW MCC-SW MCC-SW MCC-SW	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 1 PR #16 SHD.	SW-1 SW-1 SW-1 3/4" C
PEAK FLOW PUMP NO.2	HOA SWITCH POSITION ON/OFF STATUS ALARM	DI DI DI	SW502P SW502S SW502A		MCC-SW MCC-SW MCC-SW	RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14	SW-1 SW-1 SW-1
PEAK FLOW PUMP NO.3	HOA SWITCH POSITION ON/OFF STATUS ALARM	DI DI DI	SW503P SW503S SW503A		MCC-SW MCC-SW MCC-SW	RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14	SW-1 SW-1 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 ON/OFF STATUS ON/OFF CONTROL ALARM	DI DI DO DO	SW600P SW600S SW600C SW600A		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.1-1	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW1210C SW1210S SW1210C SW1210S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.1-2	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW1220C SW1220S SW1220C SW1220S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.2-1	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW2210C SW2210S SW2210C SW2210S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.2-2	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW2220C SW2220S SW2220C SW2220S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.3-1	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW3210C SW3210S SW3210C SW3210S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
SLUICE GATE NO.3-2	OPEN CONTROL OPEN STATUS CLOSE CONTROL CLOSE STATUS	DO DI DO DI	SW3220C SW3220S SW3220C SW3220S		C.P. C.P. C.P. C.P.	RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14	SW-1 SW-1 SW-1 SW-1
EMERGENCY GENERATOR	ON/OFF STATUS NORMAL POWER AVAILABLE EMERGENCY POWER AVAILABLE TRANSFER SWITCH POSITION MINOR ALARM MAJOR ALARM GENERATOR KW	DI DI DI DI DI DI AI	SW600S SW600NA SW600EA SW600P SW600A SW600F SW600KW		ATS ATS ATS ATS ATS ATS ATS	RTU-SW RTU-SW RTU-SW RTU-SW RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14 2 #14 2 #14 2 #14 1 PR #16 SHD.	SW-2 SW-2 SW-2 SW-2 SW-2 SW-2 3/4" C
HIGH MAST LIGHTING LEVEL 1	HOA SWITCH POSITION ON/OFF STATUS ON/OFF CONTROL	DI DI DO	SW701P SW701S SW701C		MCC-SW MCC-SW MCC-SW	RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14	SW-1 SW-1 SW-1
HIGH MAST LIGHTING LEVEL 2	HOA SWITCH POSITION ON/OFF STATUS ON/OFF CONTROL	DI DI DO	SW702P SW702S SW702C		MCC-SW MCC-SW MCC-SW	RTU-SW RTU-SW RTU-SW	2 #14 2 #14 2 #14	SW-1 SW-1 SW-1

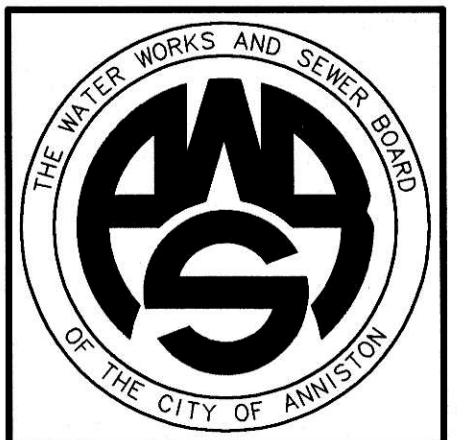
JACKSON, RENFRO & ASSOC., INC.
141 VILLAGE STREET • SUITE 1
BIRMINGHAM, ALABAMA 35242
JRA JOB NO. 99002

SCALE : NONE

© 1999 PAUL B. KREBS & ASSOCIATES, INC.



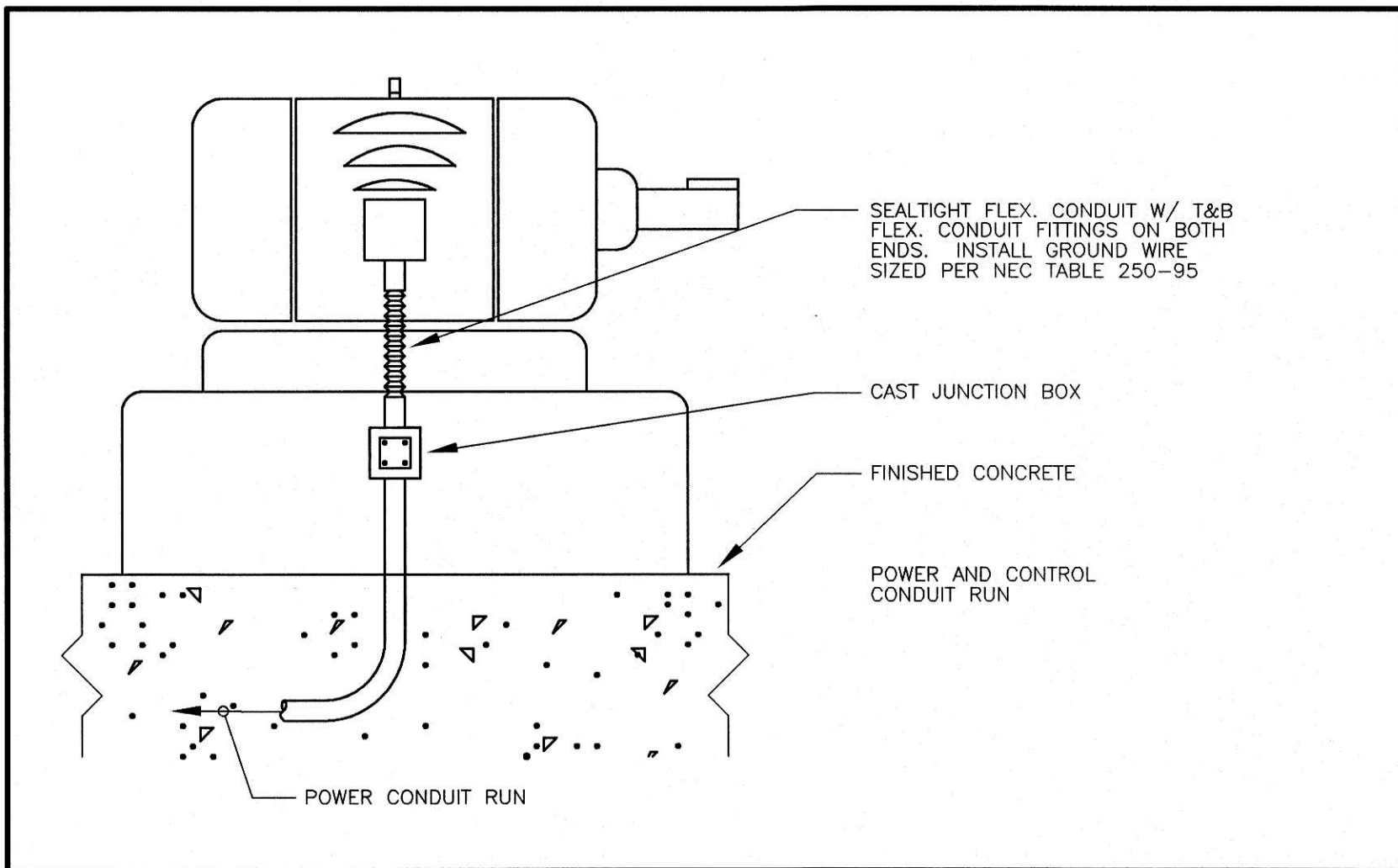
WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCOLOCO WWTP
IMPROVEMENTS
ANNISTON, ALABAMA



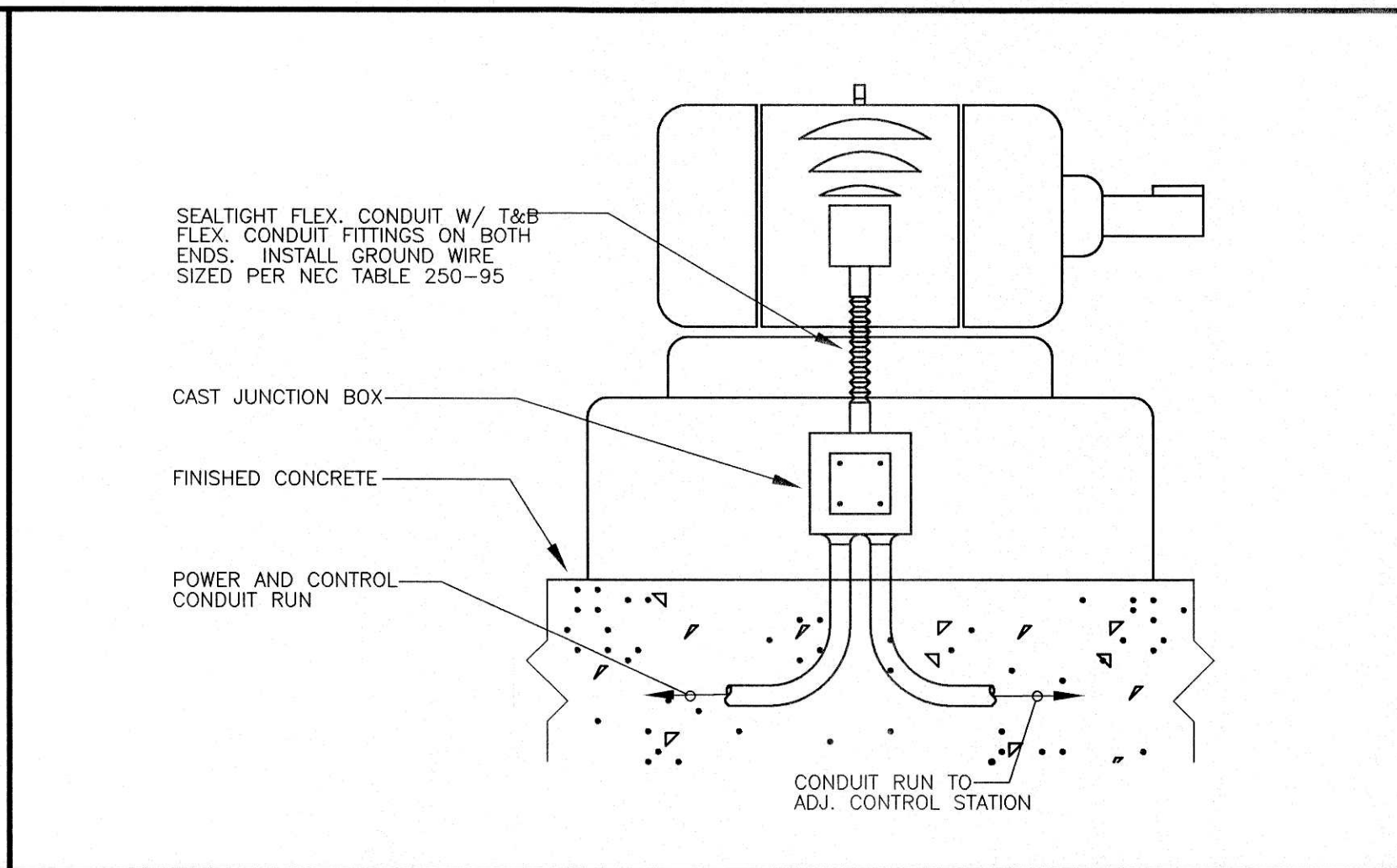
PROJECT NO.		98062
DESIGNED		WCR
DRAWN		CAB
CHECKED		WCR
APPROVED		
DATE		JULY 1999
REVISIONS		
N.O.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

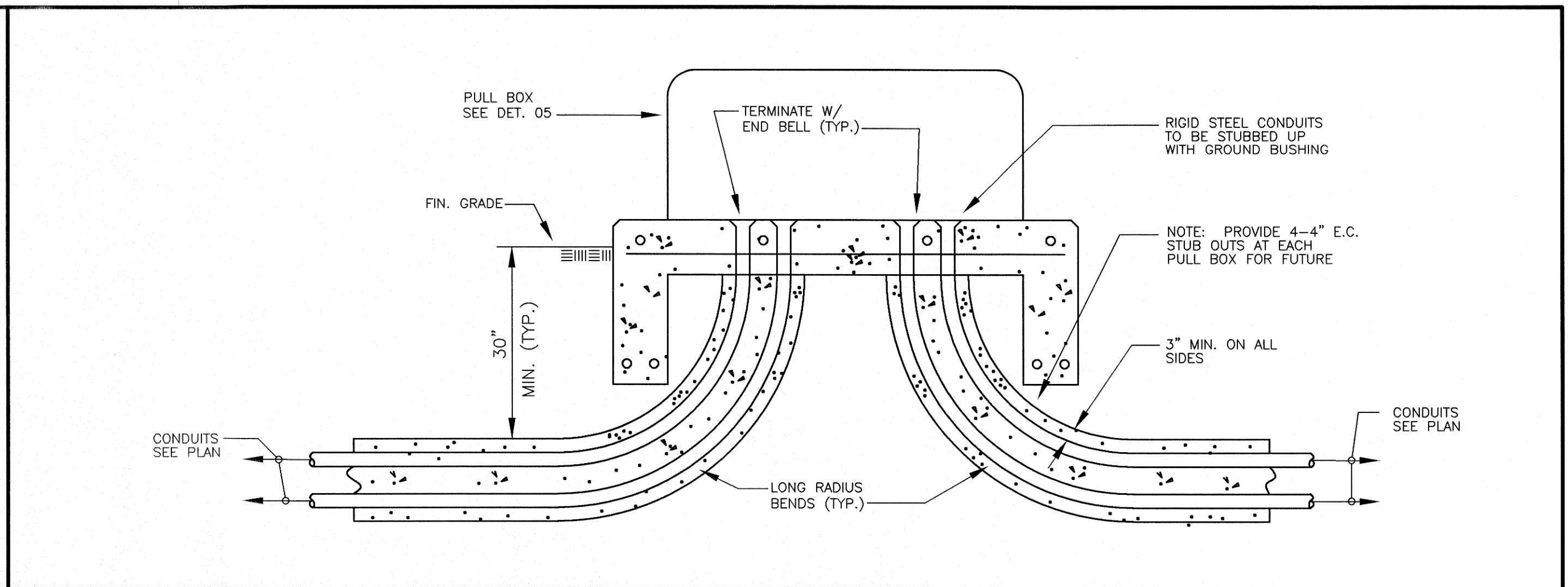
SHEET TITLE		SCADA SYSTEM WIRING SCHEDULE & DETAIL BASE BID
SHEET NO.		E1.05
SEQUENCE		76 OF 84



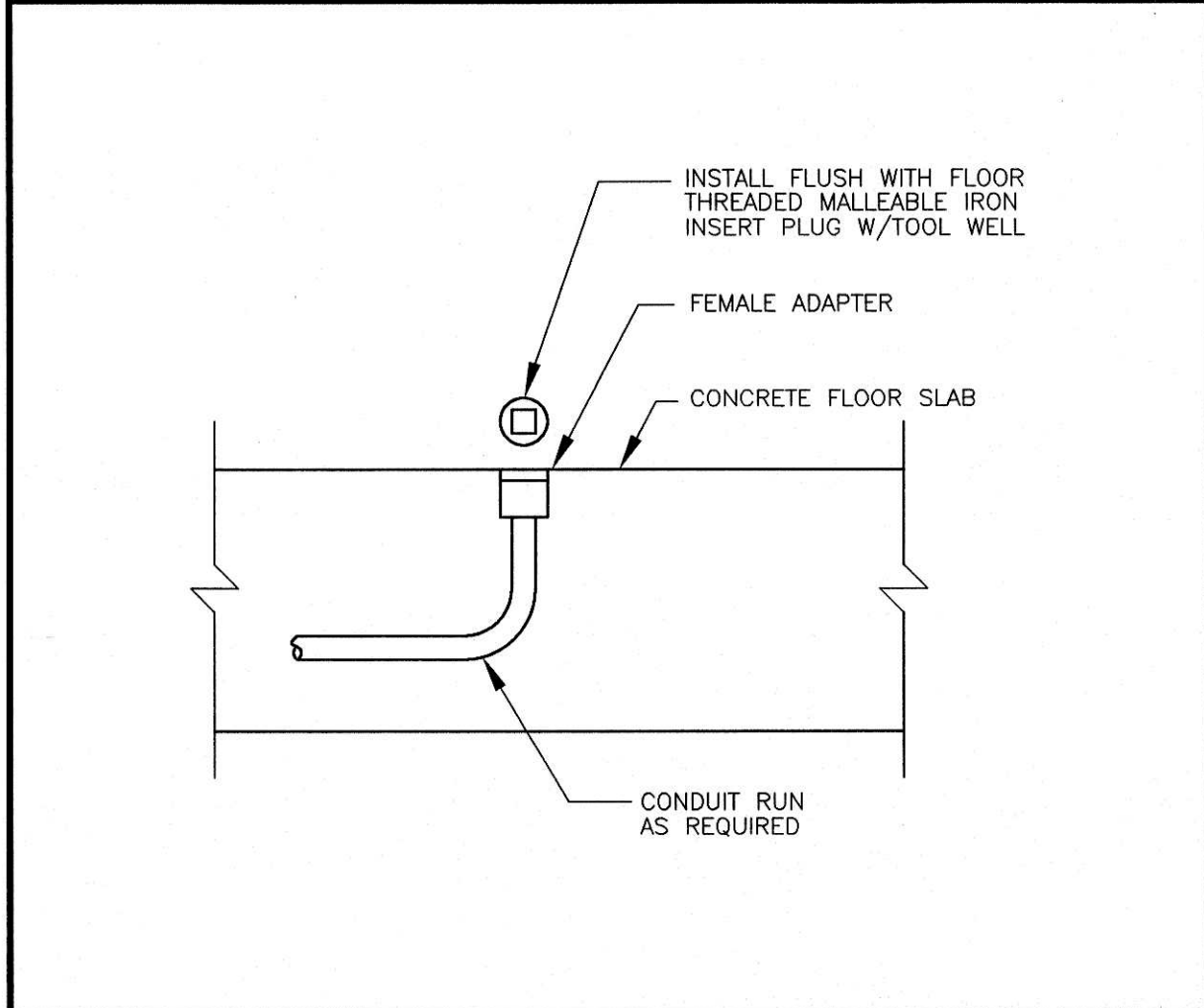
20 MOTOR FEEDER CONNECTION SCALE : NONE



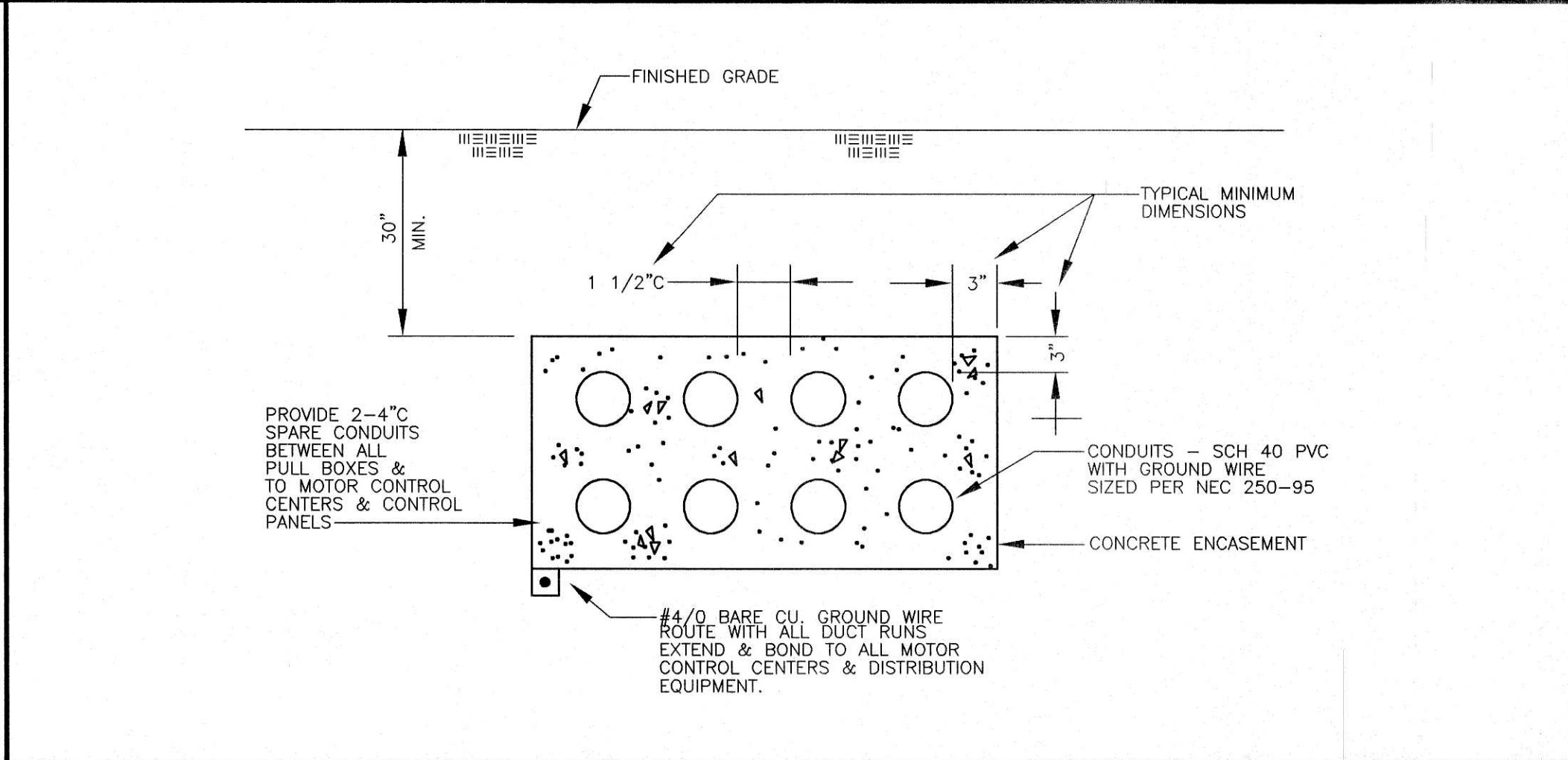
18 MOTOR CONNECTION W/ADJ. CONTR. STA. SCALE : NONE



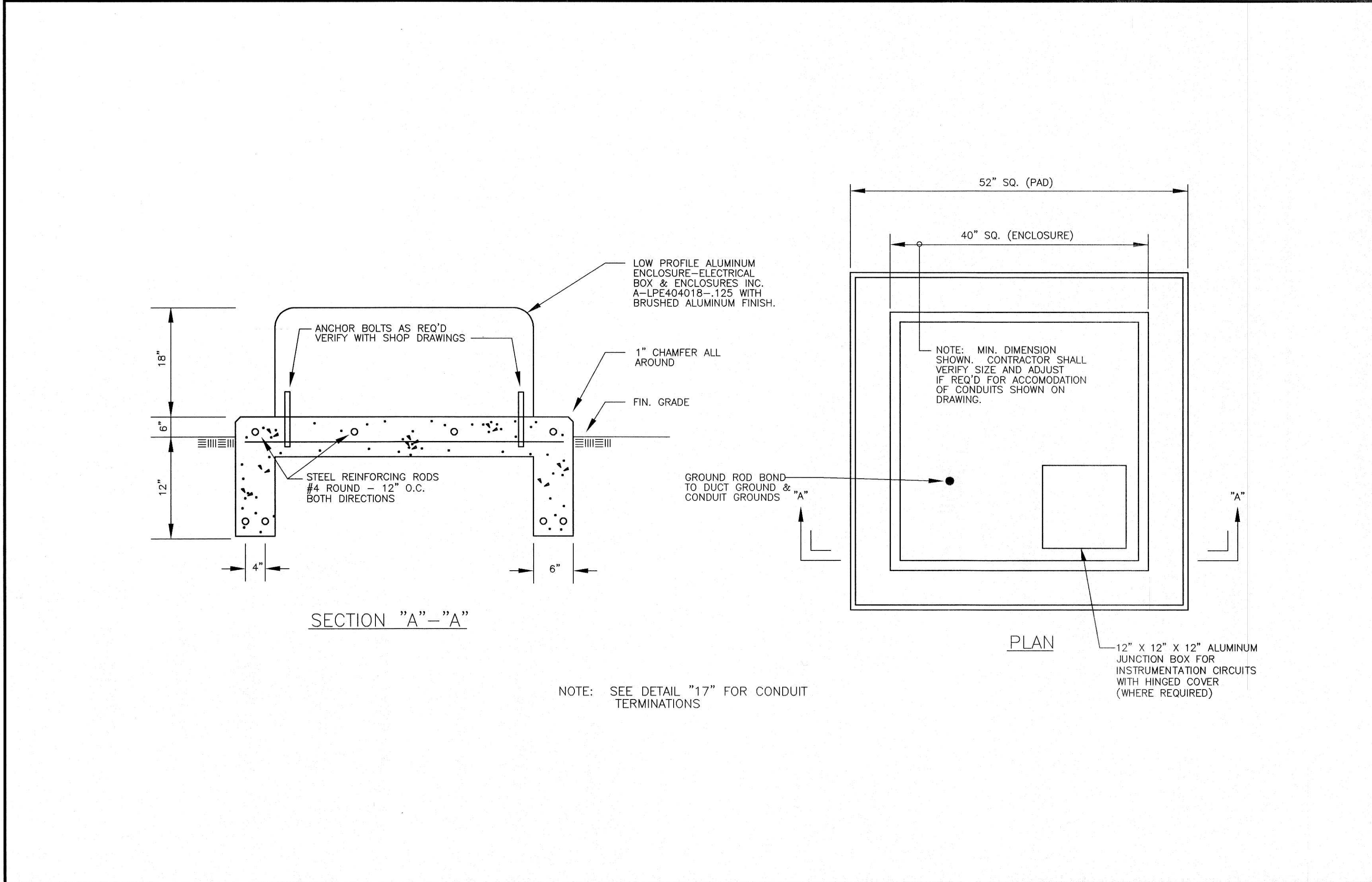
17 CONDUIT TERMINATION AT PULL BOX SCALE : NONE



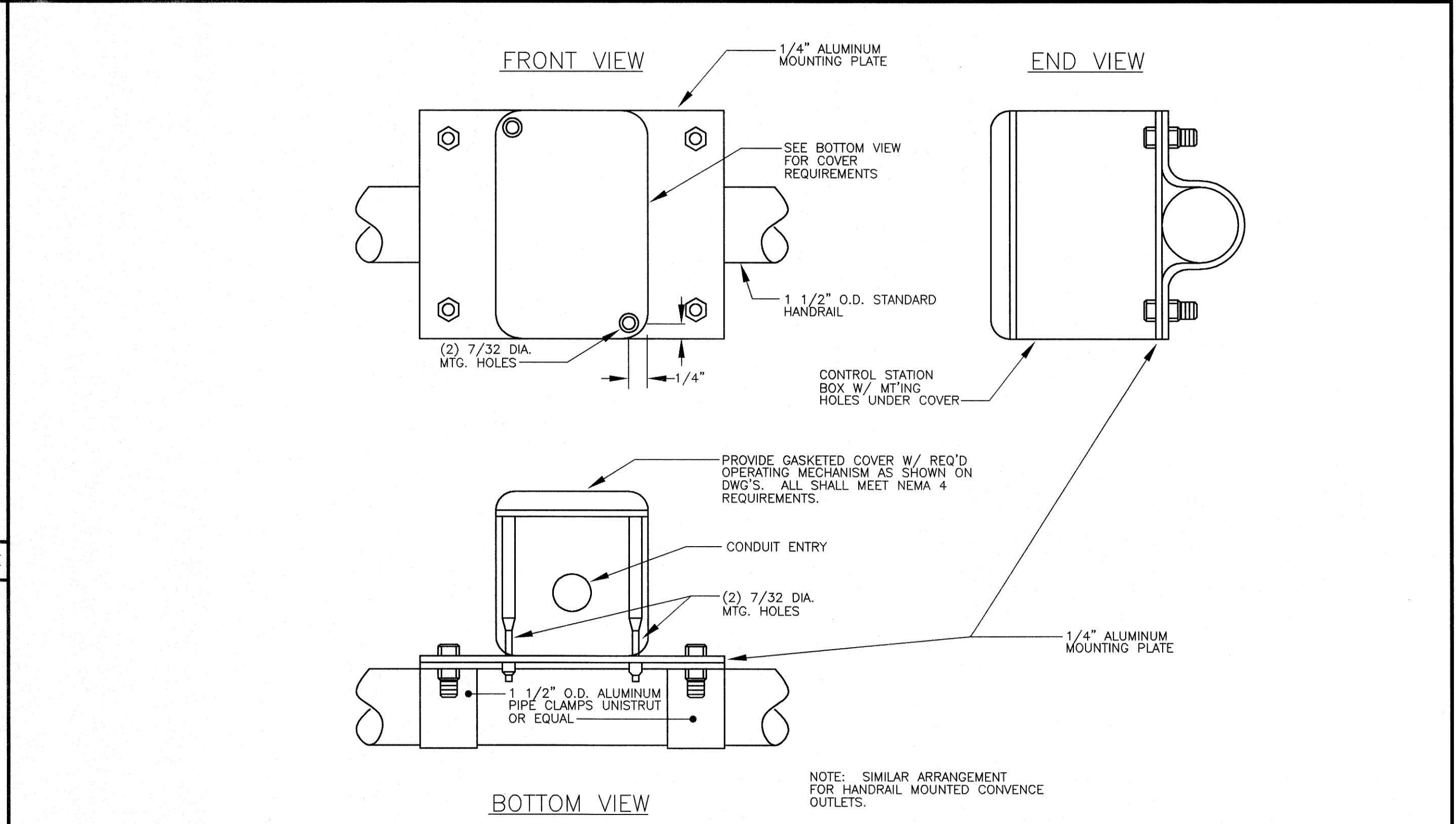
15 FUT. CONDUIT STUB-UP SCALE : NONE



14 TYPICAL DUCT RUN SECTION SCALE : NONE

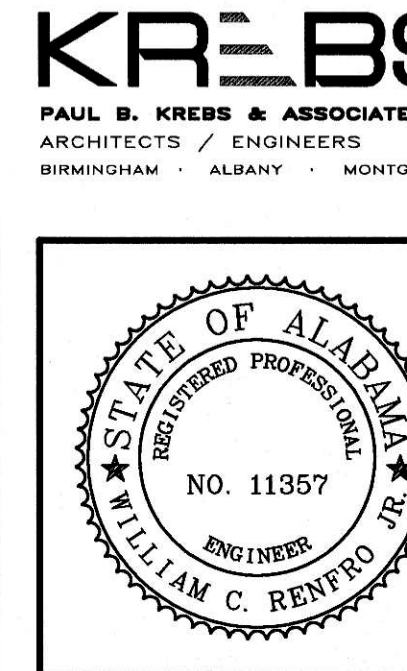


05 TYPICAL PULL BOX SCALE : NONE

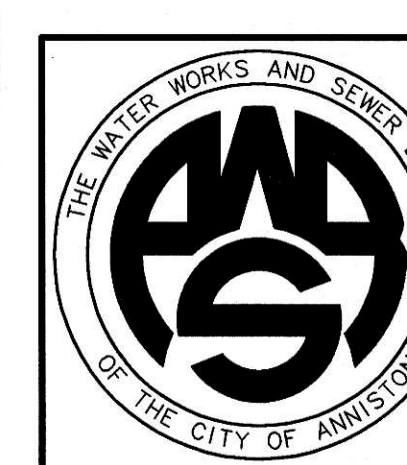


07 TYPICAL NEMA 4 CONTROL STATION HANDRAIL MOUNTING SCALE : NONE

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



WATER WORKS & SEWER BOARD
CITY OF ANNISTON
CHOCOLOCOO WWTP
IMPROVEMENTS

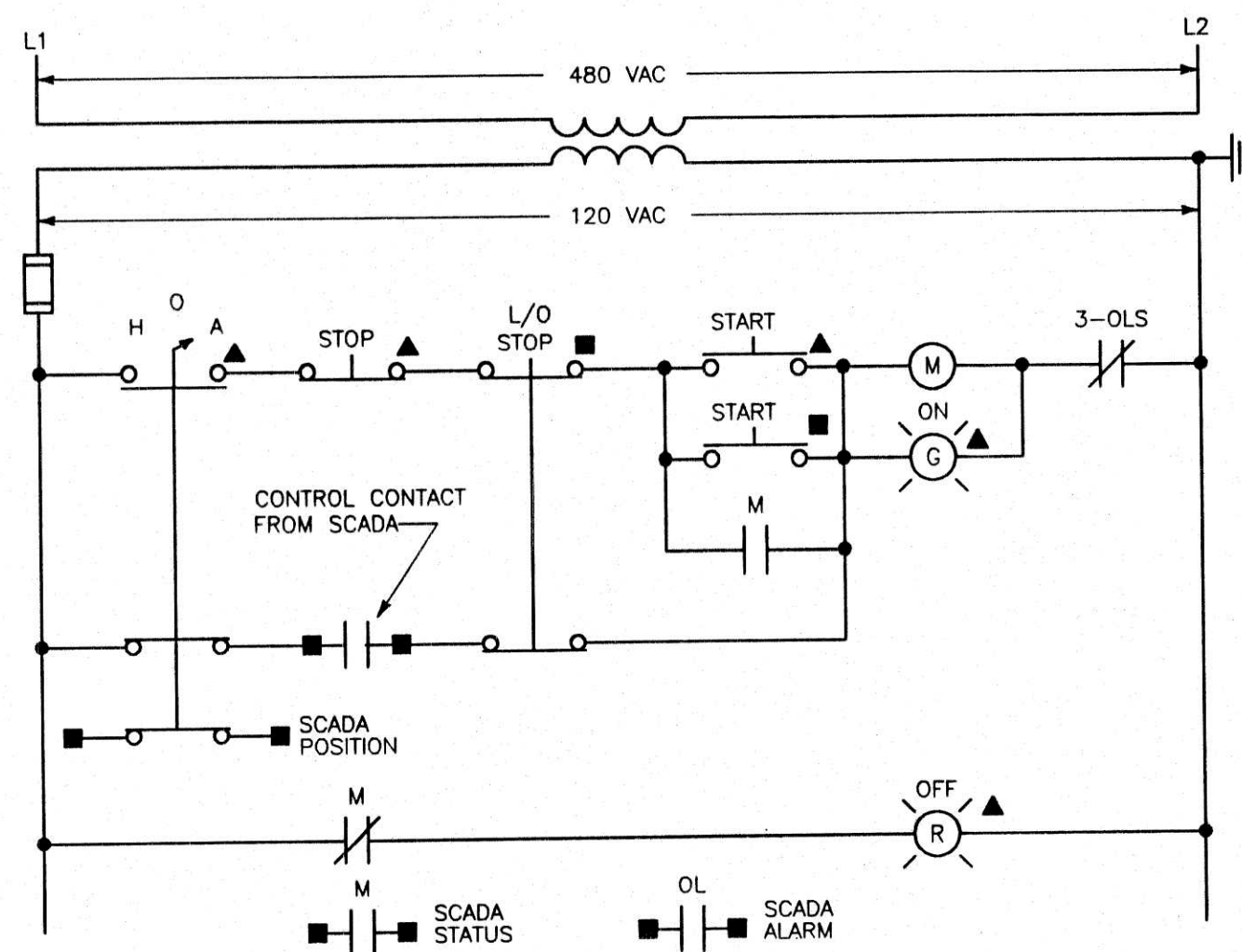


PROJECT NO.	98062	
DESIGNED	WCR	
DRAWN	CAB	
CHECKED	WCR	
APPROVED		
DATE	JULY 1999	
REVISIONS		
NO.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

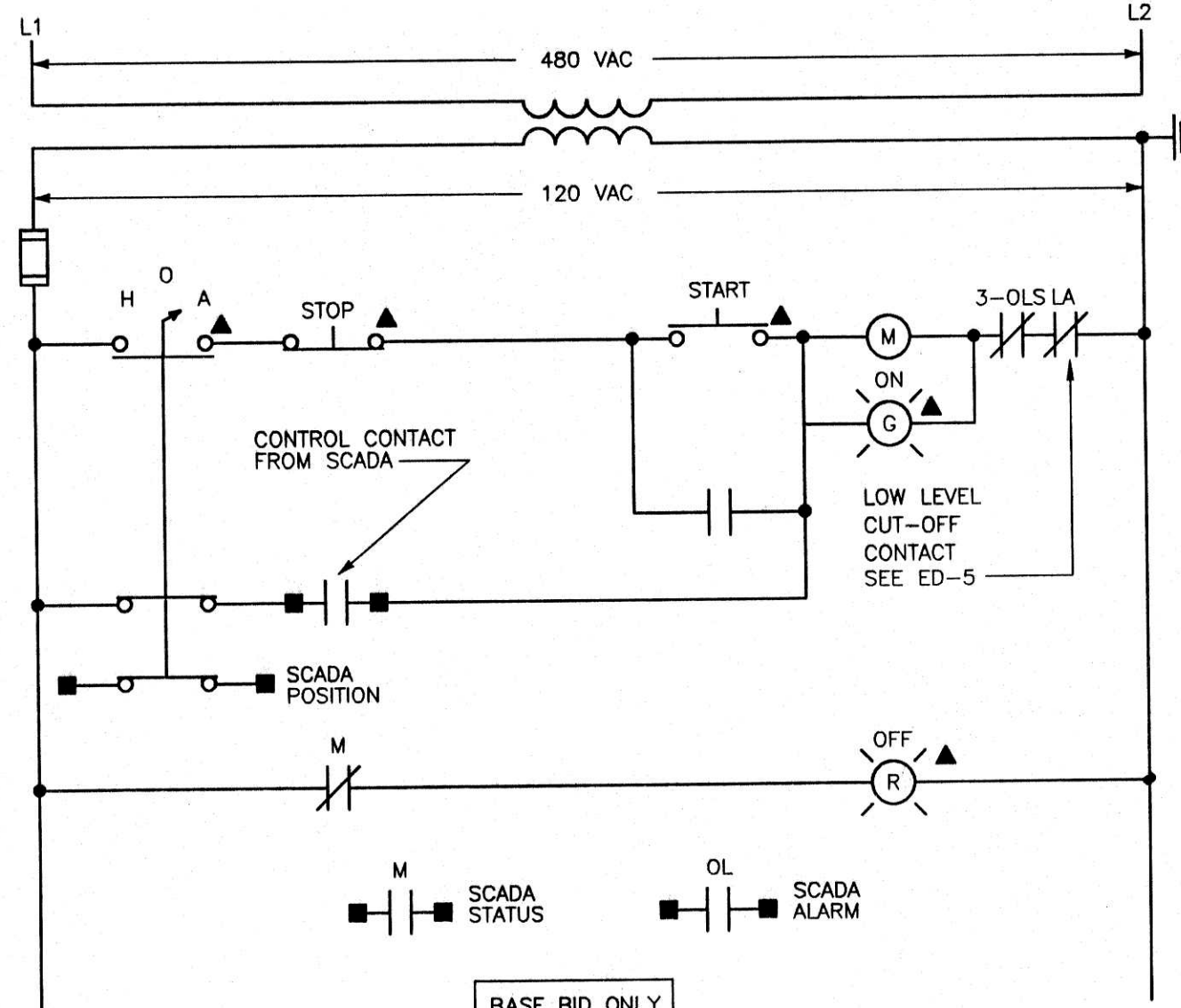
ELECTRICAL DETAILS

SHEET NO.
E1.04
SEQUENCE 75 OF 84



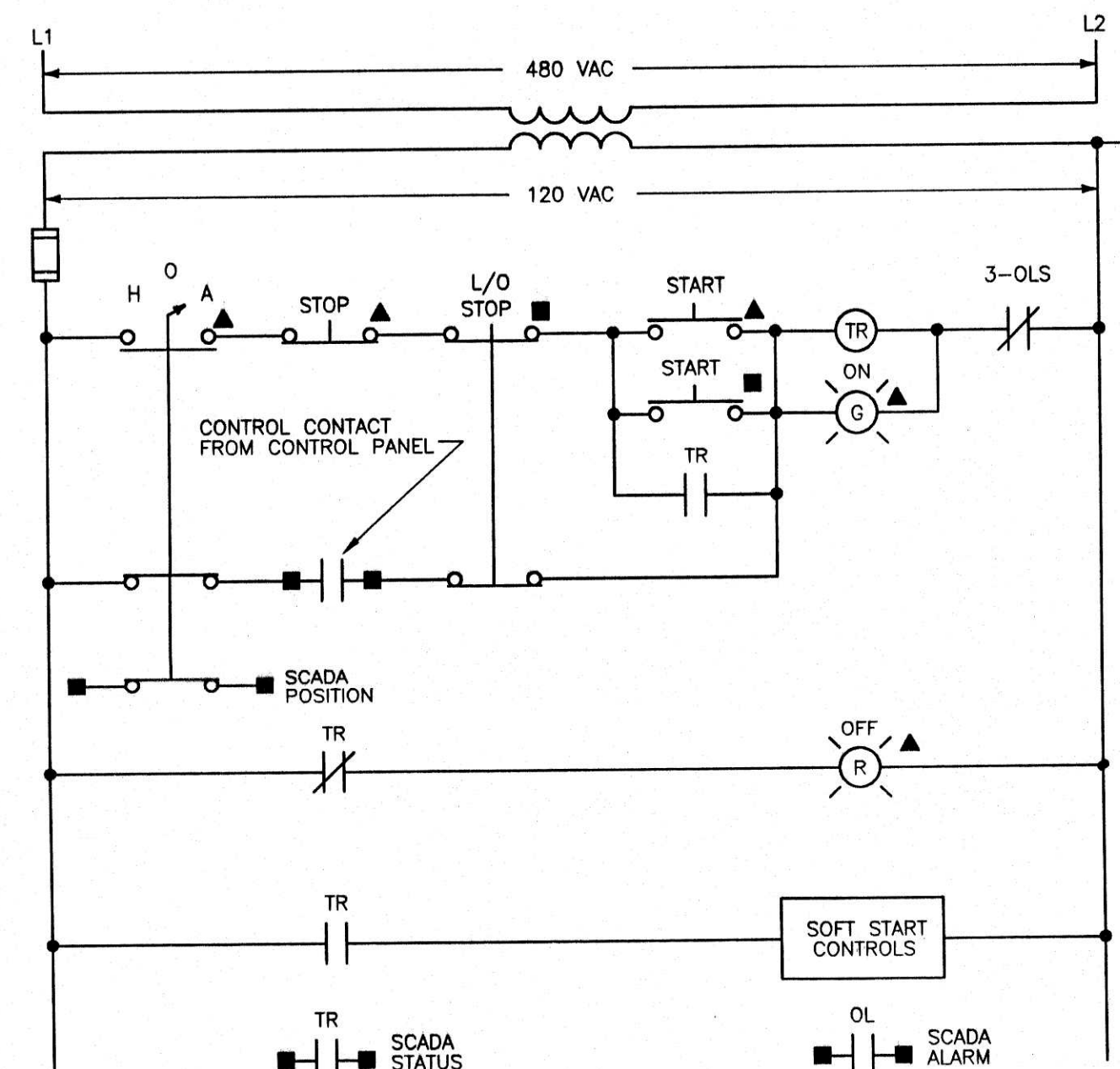
ELEMENTARY DIAGRAM NO. 1

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



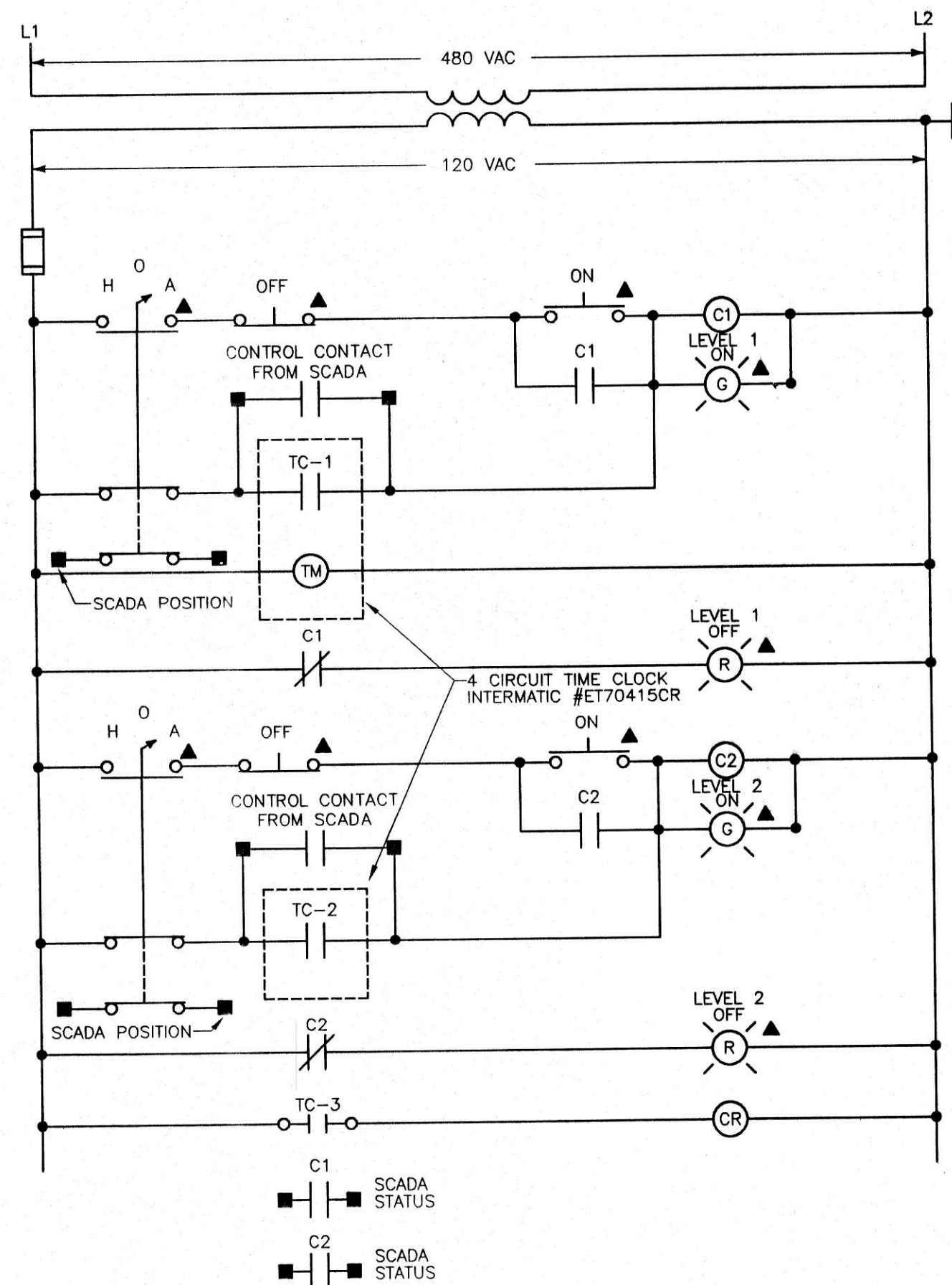
ELEMENTARY DIAGRAM NO. 2

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



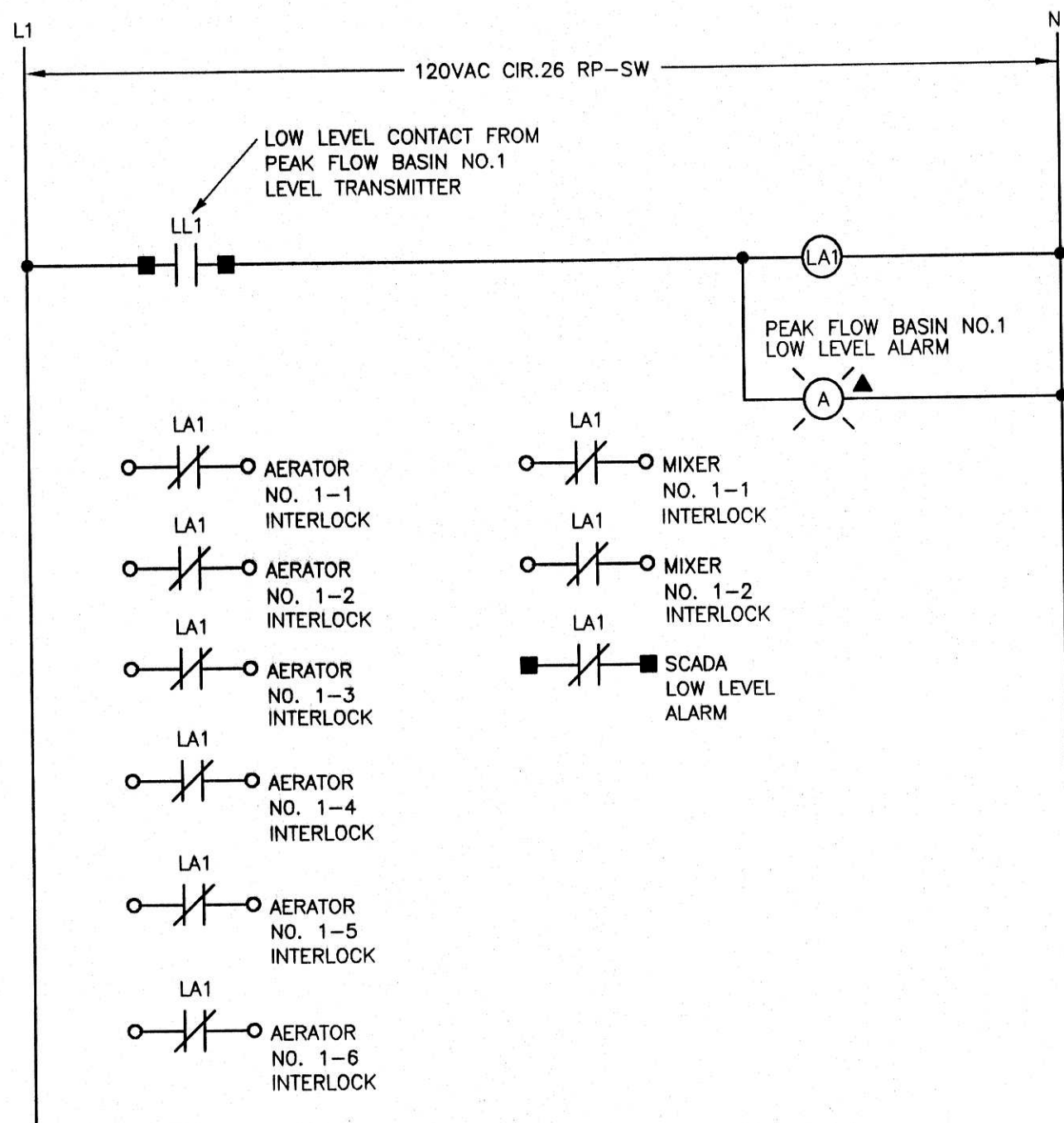
ELEMENTARY DIAGRAM NO. 4

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



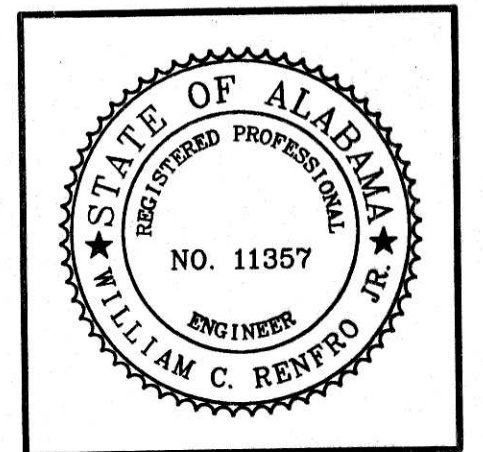
ELEMENTARY DIAGRAM NO. 6

HIGH MAST LIGHTING CONTROLS MCC-SW

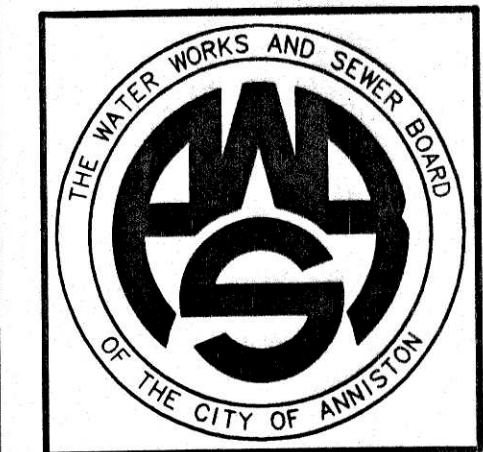


ELEMENTARY DIAGRAM NO. 5

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



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



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

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

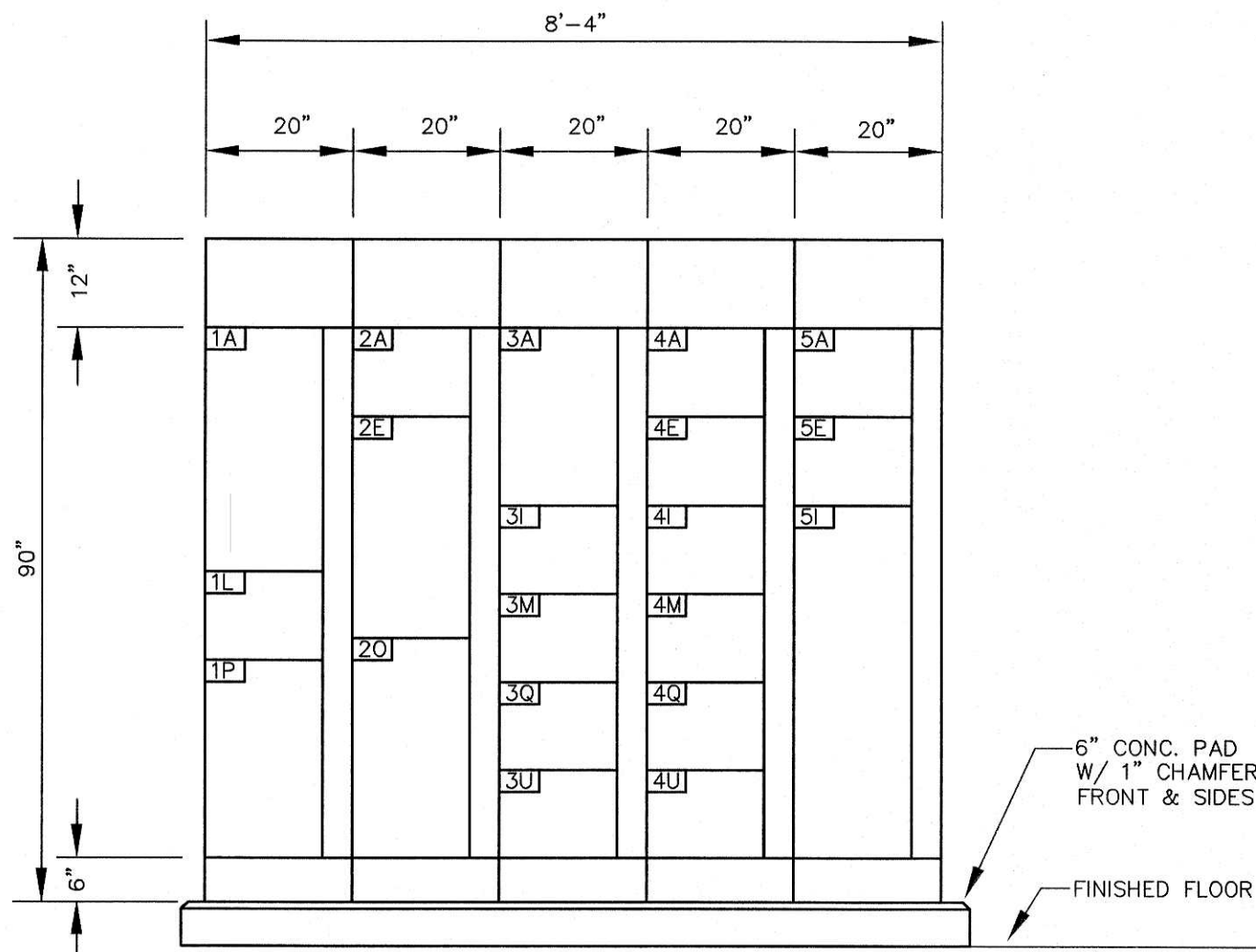
SCALE : NONE

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						
20	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						

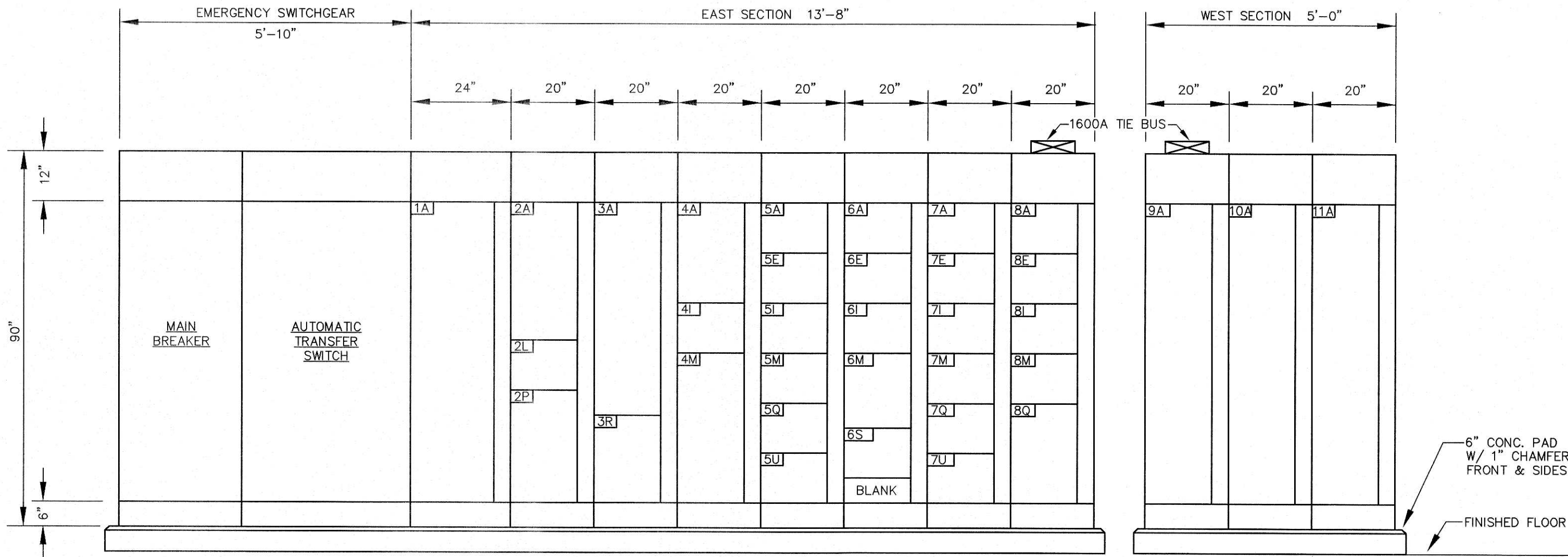
SPACE FOR
SCREEN / PRESS

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

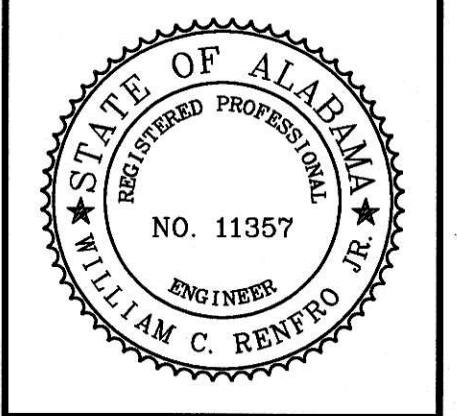


MCC-HW ELEVATION
SCALE : 1/2" = 1'-0"

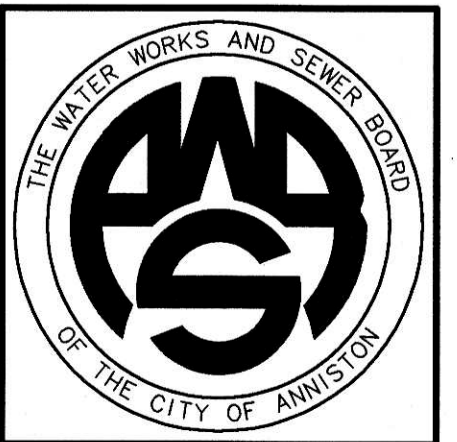


MCC-SW ELEVATION
SCALE : 1/2" = 1'-0"

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



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

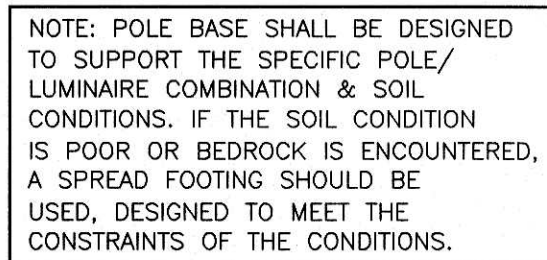


PROJECT NO.		98062
DESIGNED		WCR
DRAWN		CAB
CHECKED		WCR
APPROVED		
DATE		JULY 1999
REVISIONS		
N.O.	DATE	DESCRIPTION
1	11-17-06	RECORD DRAWING

RECORD
DRAWING

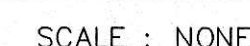
SHEET TITLE	MCC SCHEDULES & ELEVATIONS BASE BID
SHEET NO.	E1.02
SEQUENCE	73 OF 84

SCALE : NONE



SCALE : NONE

- SCALE : NONE

SCALE : NONESCALE : NONESCALE : NONE