



ADDENDUM NO. 1  
TO THE CONTRACT DOCUMENTS

Date: August 4, 2023  
Project No.: D3571200

for the construction of

**MILLEY'S CREEK WPCP SCREEN REPLACEMENT PROJECT**

THE WATER WORKS AND SANITARY SEWER BOARD  
CITY OF MONTGOMERY

**To All Planholders and/or Prospective Bidders:**

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of Milley's Creek WPCP Screen Replacement Project dated July 2023 as fully and completely as if the same were fully set forth therein:

A. PART 4 SPECIFICATIONS

1. Section 40 27 02, Process Valves and Operators

Insert the following after paragraph 2.05:

“A. Globe Valves:

1. Type V237 Angle Pattern Hose Valve 1 Inch to 2 Inches:
  - a. All-bronze, NPT threaded ends, inside screw-type rising stem, TFE disc, complies with MSS SP 80, rated 300 WOG.
  - b. Manufacturers and Products:
    - 1) Stockham; Figure B 222T.
    - 2) Crane Co.; Cat. No. 17TF.
    - 3) Nibco; Figure T 335 Y.”

B. PART 5 DRAWINGS

1. REMOVE Drawing 05-Y-201 in its entirety and REPLACE with the attached.
2. REMOVE Drawing 12-D-202 in its entirety and REPLACE with the attached.
3. REMOVE Drawing 12-D-301 in its entirety and REPLACE with the attached.

4. REMOVE Drawing 05-E-201 in its entirety and REPLACE with the attached.
5. REMOVE Drawing 05-E-601 in its entirety and REPLACE with the attached.
6. REMOVE Drawing 05-E-602 in its entirety and REPLACE with the attached.
7. REMOVE Drawing 12-E-201 in its entirety and REPLACE with the attached.
8. REMOVE Drawing 08-N-602 in its entirety and REPLACE with the attached.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 in the Bid Form or by submitting the Addendum with the bid package. Bid Forms submitted without acknowledgment or without this Addendum will be considered in nonconformance.

Jacobs



---

Nicholas D. Freeman  
Project Manager



Appended hereto and part of Addendum No. 1:

Drawing 05-Y-201.

Drawing 12-D-202.

Drawing 12-D-301.

Drawing 05-E-201.

Drawing 05-E-601.

Drawing 05-E-602.

Drawing 12-E-201.

Drawing 08-N-602.

**END OF ADDENDUM**

### GENERAL NOTES

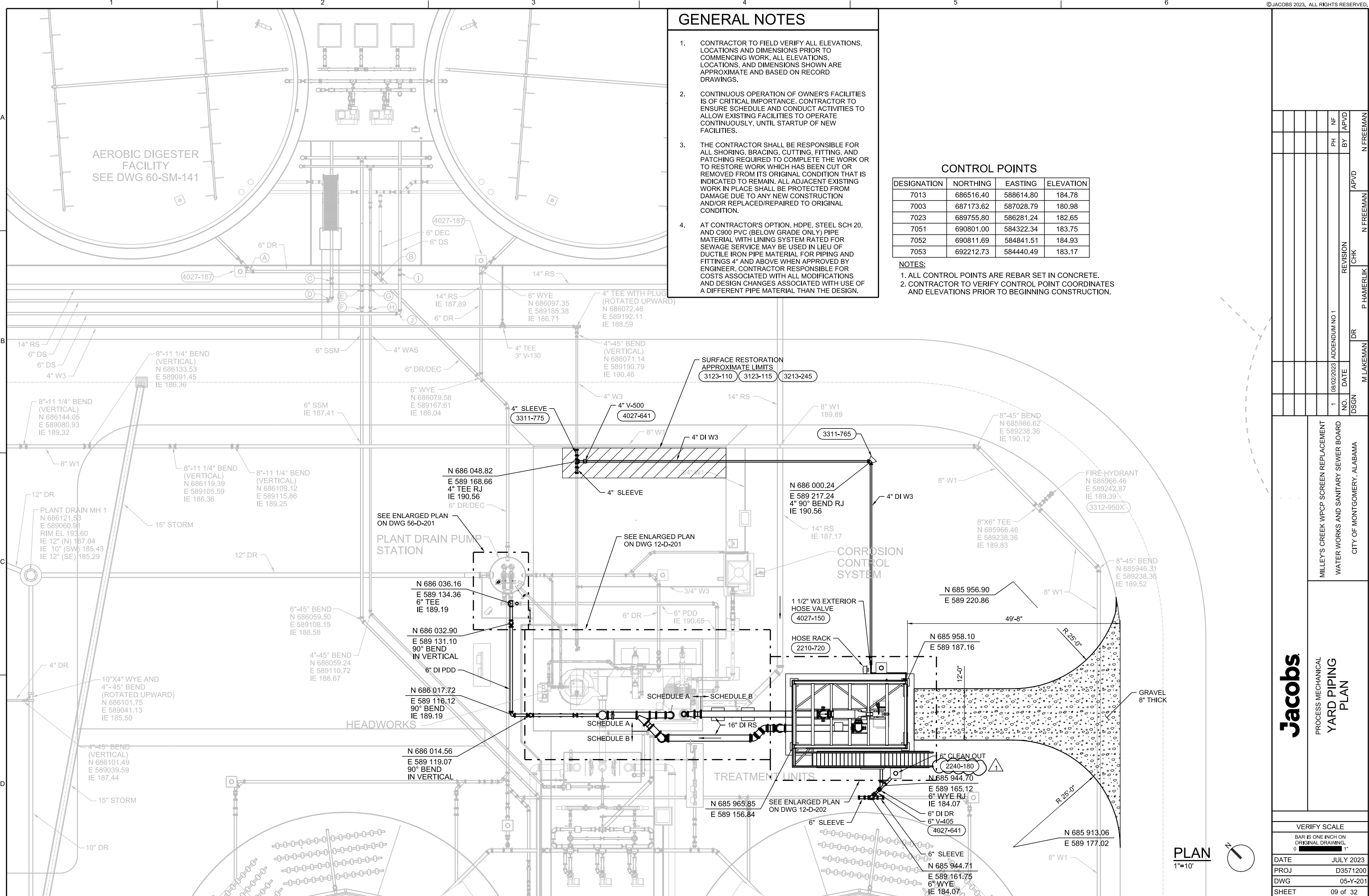
- CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS, LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. ALL ELEVATIONS, LOCATIONS, AND DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON RECORD DRAWINGS.
- CONTINUOUS OPERATION OF OWNER'S FACILITIES IS OF CRITICAL IMPORTANCE. CONTRACTOR TO ENSURE SCHEDULE AND CONDUCT ACTIVITIES TO ALLOW EXISTING FACILITIES TO OPERATE CONTINUOUSLY, UNTIL STARTUP OF NEW FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, CUTTING, FITTING, AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO RESTORE WORK WHICH HAS BEEN CUT OR REMOVED FROM ITS ORIGINAL CONDITION THAT IS INDICATED TO REMAIN. ALL ADJACENT EXISTING WORK IN PLACE SHALL BE PROTECTED FROM DAMAGE DUE TO ANY NEW CONSTRUCTION AND/OR REPLACED/REPAIRED TO ORIGINAL CONDITION.
- AT CONTRACTOR'S OPTION, HDPE, STEEL SCH 20, AND C900 PVC (BELOW GRADE ONLY) PIPE MATERIAL WITH LINING SYSTEM RATED FOR SEWAGE SERVICE MAY BE USED IN LIEU OF DUCTILE IRON PIPE MATERIAL FOR PIPING AND FITTINGS 4" AND ABOVE WHEN APPROVED BY ENGINEER. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH ALL MODIFICATIONS AND DESIGN CHANGES ASSOCIATED WITH USE OF A DIFFERENT PIPE MATERIAL THAN THE DESIGN.

### CONTROL POINTS

DESIGNATION	NORTHING	EASTING	ELEVATION
7013	686516.40	588614.80	184.78
7003	687173.62	587028.79	180.98
7023	689755.80	586281.24	182.65
7051	690801.00	584322.34	183.75
7052	690811.69	584841.51	184.93
7053	692212.73	584440.49	183.17

### NOTES:

- ALL CONTROL POINTS ARE REBAR SET IN CONCRETE.
- CONTRACTOR TO VERIFY CONTROL POINT COORDINATES AND ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.



NO.	DATE	REVISION	CHK	APVD
1	08/02/2023	ADDENDUM NO 1	M LAKEMAN	N FREEMAN

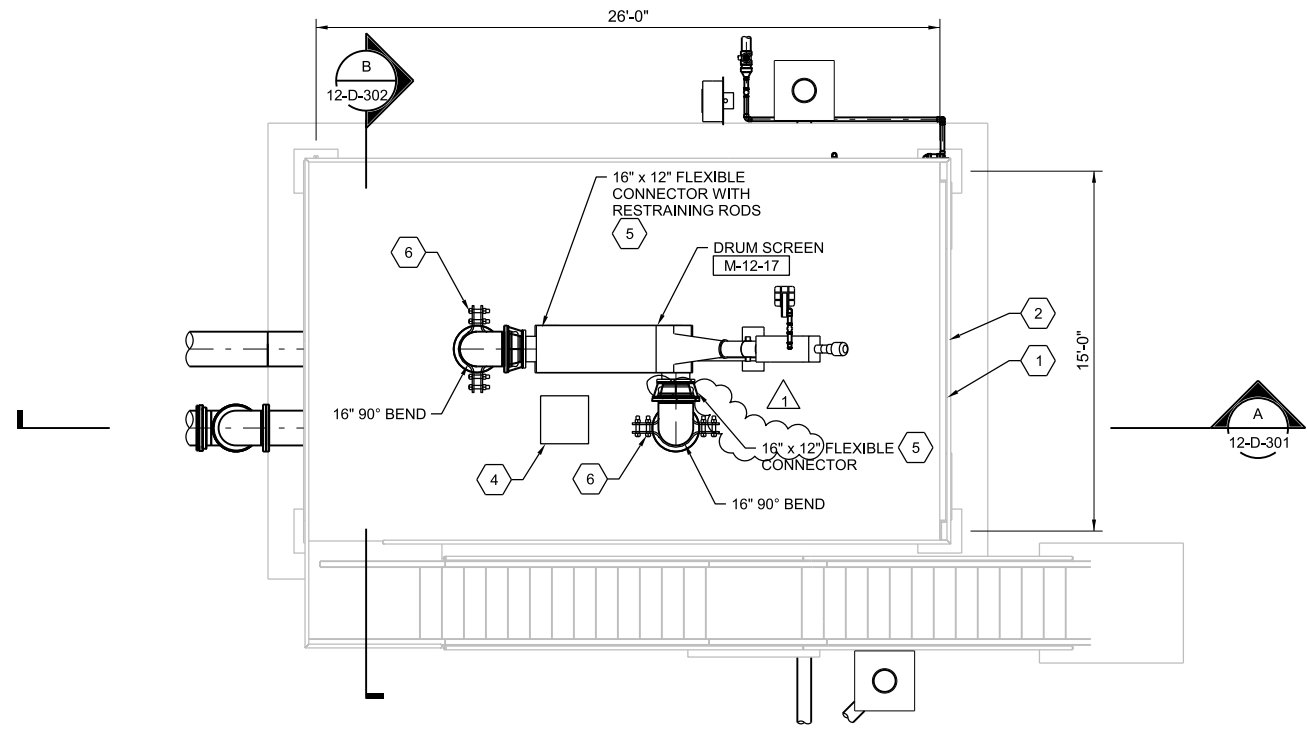
MILLEY'S CREEK WPCP SCREEN REPLACEMENT  
 WATER WORKS AND SANITARY SEWER BOARD  
 CITY OF MONTGOMERY, ALABAMA

PROCESS MECHANICAL  
**YARD PIPING PLAN**

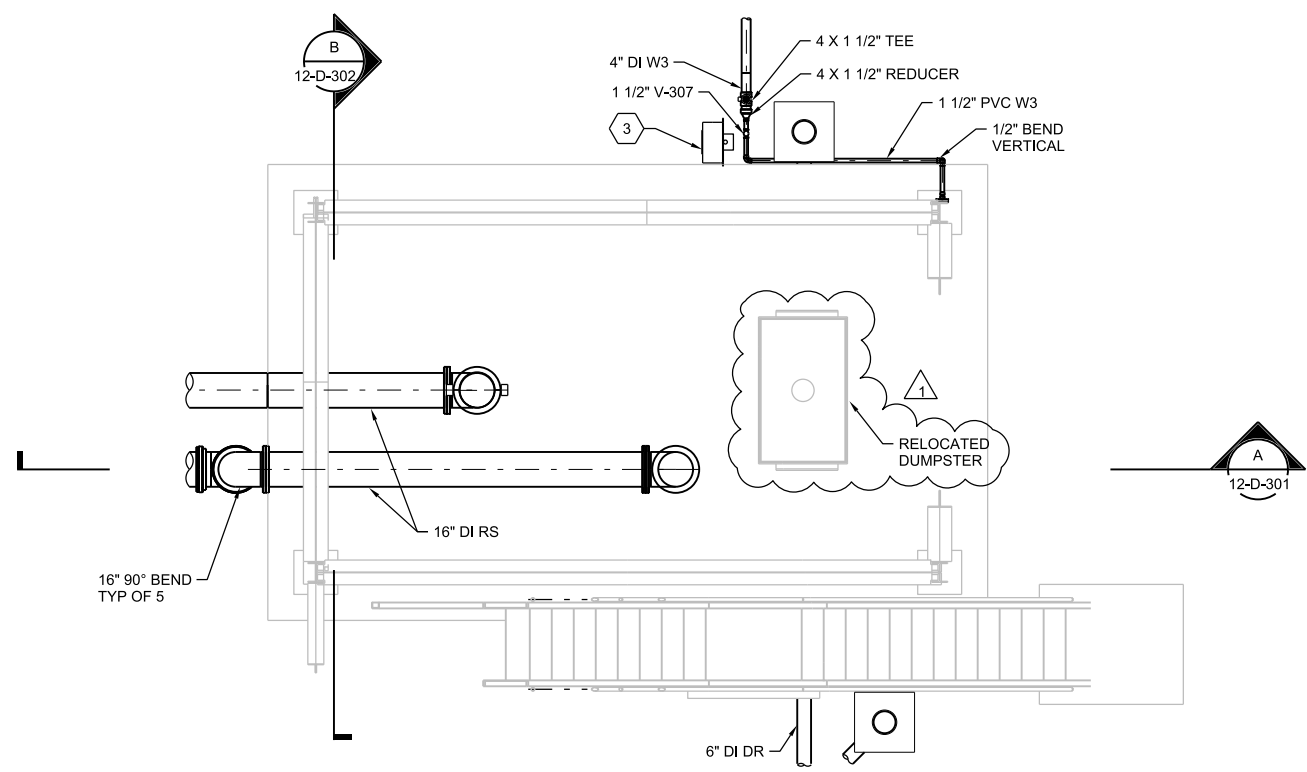
VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JULY 2023
PROJ	D3571200
DWG	05-Y-201
SHEET	09 of 32

**JACOBS**  
 PROCESS MECHANICAL  
**YARD PIPING PLAN**

BID DOCUMENTS



**TOP PLAN**  
1/4"=1'-0"



**LOWER PLAN**  
1/4"=1'-0"

**GENERAL NOTES**

1. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS, LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. ALL ELEVATIONS, LOCATIONS, AND DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON RECORD DRAWINGS.
2. CONTINUOUS OPERATION OF OWNER'S FACILITIES IS OF CRITICAL IMPORTANCE. CONTRACTOR TO ENSURE SCHEDULE AND CONDUCT OF ACTIVITIES ALLOW EXISTING FACILITIES TO OPERATE CONTINUOUSLY, UNTIL STARTUP OF NEW FACILITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, CUTTING, FITTING, AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO RESTORE WORK WHICH HAS BEEN CUT OR REMOVED FROM ITS ORIGINAL CONDITION THAT IS INDICATED TO REMAIN. ALL ADJACENT EXISTING WORK IN PLACE SHALL BE PROTECTED FROM DAMAGE DUE TO ANY NEW CONSTRUCTION AND/OR REPLACED/REPAIRED TO ORIGINAL CONDITION.
4. AT CONTRACTOR'S OPTION, HDPE, STEEL SCH 20, AND C900 PVC (BELOW GRADE ONLY) PIPE MATERIAL WITH LINING SYSTEM RATED FOR SEWAGE SERVICE MAY BE USED IN LIEU OF DUCTILE IRON PIPE MATERIAL FOR PIPING AND FITTINGS 4" AND ABOVE WHEN APPROVED BY ENGINEER. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DESIGN CHANGES.

**SHEET KEYNOTES**

1. SCREEN PLATFORM FLOOR ELEVATION: 208.33 FT.
2. PROVIDE ALUMINUM PLATFORMS AND GRATING IN ORDER TO PROVIDE OPERATION ACCESS ACROSS THE ELEVATED PORTION OF THE HEADWORKS STRUCTURE. GRATING SHALL BE INSTALLED TO ALLOW OPERATIONS AND MAINTENANCE ACCESS TO EACH PIECE OF EQUIPMENT. PROVIDE HANDRAIL AROUND ALL ELEVATED PLATFORMS.
3. PROVIDE 1-1/2" HOSE BIB AND HOSE RACK PER DETAIL 2210-720 AND 4027-150. INSTALL HOSE BIB ADJACENT TO SCREENING DUMPSTERS.
4. CONTRACTOR SHALL RELOCATE THE INFLUENT REFRIGERATED SAMPLER FROM THE EXISTING HEADWORKS SYSTEM TO THE NEW SCREENING SYSTEM. SAMPLER TO DRAW SAMPLE FROM TANK ASSEMBLY SAMPLING PORT PER SPECIFICATION 44 42 30. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND MATERIALS REQUIRED TO MOVE AND TEST SAMPLER FOR PROPER OPERATION AT NEW LOCATION.
5. PROVIDE STANDARD FLEXIBLE CONNECTOR WITH RESTRAINING RODS PER SPECIFICATION 40 27 01. CONTRACTOR TO COORDINATE INLET AND DISCHARGE SIZE WITH SCREEN MANUFACTURER AND PROVIDE NECESSARY FITTINGS TO CONNECT PIPING TO SCREEN IF INLET OR DISCHARGE SIZES ARE DIFFERENT THAN SHOWN.
6. CONTRACTOR SHALL PROVIDE PIPE RISER SUPPORT PER SPECIFICATION 40 05 15.
7. SOLENOID VALVE AND W3 CONNECTION LAYOUT IS BASED ON THE LAYOUT FOR ROTOMAT R09 MICRO STRAINER. SOLENOID VALVES TO BE PROVIDED BY SCREEN MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS FOR APPROVED EQUAL EQUIPMENT. ALL PROCESS MECHANICAL MODIFICATIONS ARE TO BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL PROVIDE PIPE SUPPORT FOR W3 PIPING TO SOLENOID VALVES ACCORDINGLY.

NO.	DATE	REVISION	BY	APVD
1	08/02/2023	ADDENDUM NO 1	PH	NF

NO.	DATE	REVISION	CHK	APVD
1	08/02/2023	ADDENDUM NO 1	PH	NF

MILLEY'S CREEK WPCP SCREEN REPLACEMENT  
WATER WORKS AND SANITARY SEWER BOARD  
CITY OF MONTGOMERY, ALABAMA

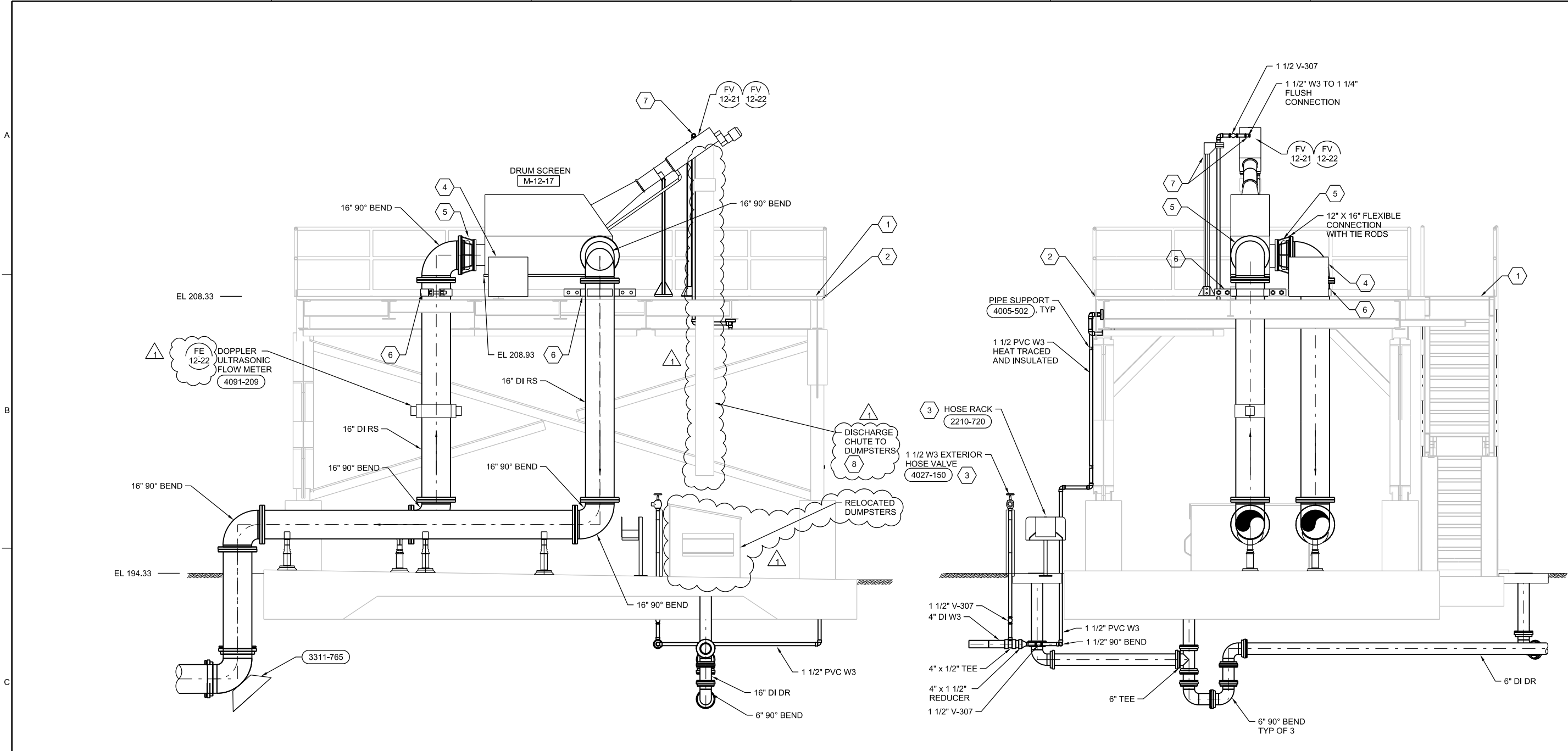
**JACOBS**  
PROCESS MECHANICAL  
**NEW SCREENS PLAN**

DATE	JULY 2023
PROJ	D3571200
DWG	12-D-202
SHEET	13 of 32

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
1"

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.

BID DOCUMENTS



**GENERAL NOTES**

- CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS, LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. ALL ELEVATIONS, LOCATIONS, AND DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON RECORD DRAWINGS.
- CONTINUOUS OPERATION OF OWNER'S FACILITIES IS OF CRITICAL IMPORTANCE. CONTRACTOR TO ENSURE SCHEDULE AND CONDUCT OF ACTIVITIES ALLOW EXISTING FACILITIES TO OPERATE CONTINUOUSLY, UNTIL STARTUP OF NEW FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, CUTTING, FITTING, AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO RESTORE WORK WHICH HAS BEEN CUT OR REMOVED FROM ITS ORIGINAL CONDITION THAT IS INDICATED TO REMAIN. ALL ADJACENT EXISTING WORK IN PLACE SHALL BE PROTECTED FROM DAMAGE DUE TO ANY NEW CONSTRUCTION AND/OR REPLACED/REPAIRED TO ORIGINAL CONDITION.
- AT CONTRACTOR'S OPTION, HDPE, STEEL SCH 20, AND C900 PVC (BELOW GRADE ONLY) PIPE MATERIAL WITH LINING SYSTEM RATED FOR SEWAGE SERVICE MAY BE USED IN LIEU OF DUCTILE IRON PIPE MATERIAL FOR PIPING AND FITTINGS 4" AND ABOVE WHEN APPROVED BY ENGINEER. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DESIGN CHANGES.

**SHEET KEYNOTES**

- SCREEN PLATFORM FLOOR ELEVATION: 208.33 FT.
- PROVIDE ALUMINUM PLATFORMS AND GRATING IN ORDER TO PROVIDE OPERATION ACCESS ACROSS THE ELEVATED PORTION OF THE HEADWORKS STRUCTURE. GRATING SHALL BE INSTALLED TO ALLOW OPERATIONS AND MAINTENANCE ACCESS TO EACH PIECE OF EQUIPMENT. PROVIDE HANDRAIL AROUND ALL ELEVATED PLATFORMS.
- PROVIDE 1-1/2" HOSE BIB AND HOSE RACK PER DETAIL 2210-720 AND 4027-150. INSTALL HOSE BIB ADJACENT TO SCREENING DUMPSTERS.
- CONTRACTOR SHALL RELOCATE THE INFLUENT REFRIGERATED SAMPLER FROM THE EXISTING HEADWORKS SYSTEM TO THE NEW SCREEN PLATFORM. SAMPLER TO DRAW SAMPLE FROM DRUM SCREEN TANK ASSEMBLY SAMPLING PORT PER SPECIFICATION 44 42 30.
- PROVIDE FLEXIBLE CONNECTOR WITH RESTRAINING RODS PER SPECIFICATION 40 27 01. CONTRACTOR TO COORDINATE INLET AND DISCHARGE SIZE WITH SCREEN MANUFACTURER AND PROVIDE NECESSARY FITTINGS TO CONNECT PIPING TO SCREEN IF INLET OR DISCHARGE SIZES ARE DIFFERENT THAN SHOWN.
- CONTRACTOR SHALL PROVIDE PIPE RISER SUPPORT PER SPECIFICATION 40 05 15.

**A SECTION**  
3/8"=1'-0"  
20-D-201

**SHEET KEYNOTES**

- SOLENOID VALVE AND W3 CONNECTION LAYOUT IS BASED ON THE LAYOUT FOR ROTOMAT R09 MICRO STRAINER. SOLENOID VALVES TO BE PROVIDED BY SCREEN MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS FOR APPROVED EQUAL EQUIPMENT. ALL PROCESS MECHANICAL MODIFICATIONS ARE TO BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL PROVIDE PIPE SUPPORT FOR W3 PIPING TO SOLENOID VALVES ACCORDINGLY.
- RELOCATE EXISTING 10" CPVC CHUTE FROM EXISTING SCREEN. CONTRACTOR TO COORDINATE CONNECTION TO SCREEN WITH MANUFACTURER TO ENSURE DELIVERY OF SCREENINGS WITHOUT SPILLAGE.

**B SECTION**  
3/8"=1'-0"  
20-D-201

MILLEY'S CREEK WPCP SCREEN REPLACEMENT		ADDENDUM NO 1		REVISION		APVD		N FREEMAN	
WATER WORKS AND SANITARY SEWER BOARD		DATE		NO.		CHK		P HAMERLIK	
CITY OF MONTGOMERY, ALABAMA		08/02/2023		1		DR		M LAKEMAN	
PROCESS MECHANICAL		DATE		NO.		CHK		P HAMERLIK	
NEW SCREENS		DATE		NO.		CHK		P HAMERLIK	
SECTIONS		DATE		NO.		CHK		P HAMERLIK	
VERIFY SCALE		DATE		NO.		CHK		P HAMERLIK	
BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE		NO.		CHK		P HAMERLIK	
DATE		DATE		NO.		CHK		P HAMERLIK	
PROJ		DATE		NO.		CHK		P HAMERLIK	
DWG		DATE		NO.		CHK		P HAMERLIK	
SHEET		DATE		NO.		CHK		P HAMERLIK	
14 of 32		DATE		NO.		CHK		P HAMERLIK	
1:35:11 AM		DATE		NO.		CHK		P HAMERLIK	



PROCESS MECHANICAL  
NEW SCREENS  
SECTIONS

BID DOCUMENTS

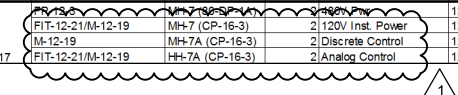


DUCT BANK ID	FROM	TO	CONDUIT SIZE (IN INCHES)	DESCRIPTION	ELECTRICAL DRAWING REFERENCE	PID REFERENCE (also in DB)	COMMENTS
P-75-30-1	HS-75-30-1(RESET)	80-MCC-1A	1.5	480V Power	75-E-141	I-13	16,15,10,8
HS-75-30-1(OOR)							
PSH-75-31-1							
TPS-75-30-1							
MSH-75-30-1	80-MCC-1A		1	120V Control	75-E-141	I-13	16,15,10,8
P-75-30-2	80-MCC-1B		1.5	480V Power	75-E-141	I-13	16,15,10,8
HS-75-30-2(OOR)							
PSH-75-31-2							
TPS-75-30-2							
MSH-75-30-2	80-MCC-1B		1	120V Control	75-E-141	I-13	16,15,10,8
B-75-1-1	80-MCC-1A		1.25	480V Power	75-E-141	I-5	16,15,10,8
HS-75-1-1(RESET)							
HS-75-1-1(OOR)							
TSH-75-2-1							
PSH-75-2-1							
TPS-75-1-1							
MSH-75-1-1	80-MCC-1A		1	120V Control	75-E-141	I-5	16,15,10,8
B-75-1-2	80-MCC-1B		1.25	480V Power	75-E-141	I-5	16,15,10,8
HS-75-1-2(RESET)							
HS-75-1-2(OOR)							
TSH-75-2-2							
PSH-75-2-2							
TPS-75-1-2							
MSH-75-1-2	80-MCC-1B		1	120V Control	75-E-141	I-5	16,15,10,8
Lights Area 60	80-LP-1		1	208V Lighting	60-E-142		15,9,8
Light Switch Area 60	50-LC-2						
Recept Area 60	80-LP-1		1	120V Lighting	60-E-142		15,9,8
B-60-1-1	80-MCC-1A		1.5	480V Power	60-E-142	I-5	15,9,8
HS-60-1-1(RESET)							
HS-60-1-1(OOR)							
TSH-60-2-1							
PSH-60-2-1							
TPS-60-1-1							
MSH-60-1-1	80-MCC-1A		1	120V Control	60-E-142	I-5	15,9,8
B-60-1-2	80-MCC-1B		1.5	480V Power	60-E-142	I-5	15,9,8
HS-60-1-2(RESET)							
HS-60-1-2(OOR)							
TSH-60-2-2							
PSH-60-2-2							
TPS-60-1-2							
MSH-60-1-2	80-MCC-1B		1	120V Control	60-E-142	I-5	15,9,8
B-60-1-3	80-MCC-1A		1.5	480V Power	60-E-142	I-5	15,9,8
HS-60-1-3(RESET)							
HS-60-1-3(OOR)							
TSH-60-2-3							
PSH-60-2-3							
TPS-60-1-3							
MSH-60-1-3	80-MCC-1A		1	120V Control	60-E-142	I-5	15,9,8
P-60-9-1	80-MCC-1A		1	480V Power	60-E-142	I-12	15,9,8
HS-60-9-1(OOR)							
MSH-60-9-1	80-MCC-1A		1	120V Control	60-E-142	I-12	15,9,8
P-60-9-2	80-MCC-1B		1	480V Power	60-E-142	I-12	15,9,8
HS-60-9-2(OOR)							
MSH-60-9-2	80-MCC-1B		1	120V Control	60-E-142	I-12	15,9,8
MM-60-5-1	80-MCC-1A		1	480V Power	60-E-141	I-12	15,9,8
HS-60-5-1(OOR)							
TSH-60-5-1	80-MCC-1A		1	120V Control	60-E-141	I-12	15,9,8
XS-60-5-1	80-MCC-1A		1	Analog Control	60-E-141	I-12	15,9,8
MM-60-5-1	80-MCC-1A		1	480V Power	60-E-141	I-12	15,9,8
HS-60-6-1(OOR)							
TSH-60-6-1	80-MCC-1A		1	120V Control	60-E-141	I-12	15,9,8
XS-60-6-1	80-MCC-1A		1	Analog Control	60-E-141	I-12	15,9,8
MM-60-5-2	80-MCC-1B		1	480V Power	60-E-141	I-12	15,9,8
HS-60-5-2(OOR)							
TSH-60-5-2	80-MCC-1B		1	120V Control	60-E-141	I-12	15,9,8
XS-60-5-2	80-MCC-1B		1	Analog Control	60-E-141	I-12	15,9,8
MM-60-6-2	80-MCC-1B		1	480V Power	60-E-141	I-12	15,9,8
HS-60-6-2(OOR)							
TSH-60-6-2	80-MCC-1B		1	120V Control	60-E-141	I-12	15,9,8
XS-60-6-2	80-MCC-1B		1	Analog Control	60-E-141	I-12	15,9,8
Lights Area 12	80-LP-1		1	120V Lighting	12-E-141		15,7
Recept Area 12	80-LP-1		1	120V Recept	12-E-141		15,7
Recept Area 12	80-LP-1		1	Dedicated 30A Recept	12-E-141 & 20-E-142		15,7
FIT-12-1							
AIT-12-31							
AIT-58-9					12-E-141,		
FSL-58-8					58-E-141,		
AIT-58-1	80-LP-1		2	120V Inst. Power	56-E-141	I-1, I-11, I-14	15,7
M-12-19	80-LP-1		1	120V Inst. Power	12-E-141	I-1	15,7
FP-12-1	80-DP-1		1	480V Power	12-E-141	I-1	15,7
FP-12-2	80-DP-1		1	480V Power	12-E-141	I-1	15,7
FP-58-1	80-DP-1		1	480V Power	58-E-141	I-11	15,7
FP-56-1	80-MCC-1B		1	480V Power	56-E-141	I-14	15,7
16-DP-1	80-SWGR-1		2	480V Pwr	16-E-141	NA	15,6
CP-16-2	CP-80-1		4	Network	95-E-610	I-18	15,6
CP-16-2	CP-80-1		4	Network	95-E-610	I-18	15,6
16-FACP-1	80-FACP-1		1	Fire Alarm Sys	95-E-610	NA	15,6
16-FACP-1	80-FACP-1		1	Fire Alarm Sys	95-E-610	NA	15,6
60-HT-1A, 1B, 1C,							
1D, 1E	80-LP-2		1	120V Power	60-E-141		15,9,8
12-HT-1	80-LP-2		1	120V Power	12-E-141		15,7
56-HT-1	80-LP-2		1	120V Power	56-E-141		15,7
58-HT-1	80-LP-2		1	120V Power	58-E-141		15,7
Duct Detector	80-FACP-1		1	Fire Alarm	58-E-141		15,7
50-JB-A							
(FIT-50-1							
AIT-50-6							
AIT-50-13-1							
AIT-50-13-2							
AIT-50-7							
M-50-8	CP-16-3		2	Analog Control	50-E-141	I-6	13,6
50-JB-D							
(P-50-5-1							
P-50-5-2							
M-50-8	CP-16-3		2	120V Control	50-E-141	I-6	13,6
FIT-52-4							
PIT-52-3	CP-16-3		1	Analog Control	52-E-141	I-9	14,6
MH-6 (FP-12-3)	MH-5 (80-DP-1A)		2	480V Pwr	12-E-201	08-N-602	7,15,17
MH-6	MH-5		2	EMPTY			
MH-6	MH-5		2	EMPTY			
MH-6	MH-5		2	EMPTY			
HH-6A	HH-5A		2	EMPTY			
HH-6A	HH-5A		2	EMPTY			
HH-6A	HH-5A		2	EMPTY			
SERVICE POLE	HH-5A		2	BUSINESS LAN	HH-11A		
SERVICE POLE	HH-5A		4	TELEPHONE	HH-11A		

DUCT BANK ID	FROM	TO	CONDUIT SIZE (IN INCHES)	DESCRIPTION	ELECTRICAL DRAWING REFERENCE	PID REFERENCE (also in DB)	COMMENTS
16-DP-1	80-SWGR-1		3	480V Pwr	16-E-141	NA	15,5
OWNER FURNISHED RACK	COM DEMARC HH-11A		2	Network	16-E-142	I-18	8,10,11 SCADA COMMUNICATIONS
OWNER FURNISHED RACK	COM DEMARC HH-11A		2	Network	16-E-142	I-18	8,10,11 BUSINESS LAN
CP-16-3	CP-80-1		4	Network	95-E-610	I-18	15,5
CP-16-2	CP-80-1		4	Network	95-E-610	I-18	15,5
16-FACP-1	80-FACP-1		1	Fire Alarm Sys	95-E-610	NA	15,5
16-FACP-1	80-FACP-1		1	Fire Alarm Sys	95-E-610	NA	15,5
50-JB-A							
(FIT-50-1							
AIT-50-6							
AIT-50-13-1							
AIT-50-13-2							
AIT-50-7							
M-50-8	CP-16-3		4	Discrete Control	50-E-141	I-6	13,5
50-JB-D							
(P-50-5-1							
P-50-5-2							
M-50-8	CP-16-3		4	Analog Control	50-E-141	I-6	13,5
FP-95-1	16-LP-2		1	240V Power	05-E-141	I-17	11,10,8
Lights Area 75	16-LP-1		1	120V Lighting	75-E-141		16,10,8
Recept Area 75	16-LP-1		1	120V Recpts	75-E-141		16,10,8
FV-75-24							
LSSH-75-20							
LSSH-75-25							
ZSC-75-32-1							
ZSC-75-32-2	CP-16-3		2	120V Control	75-E-141	I-13	16,10,8
LIT-75-20							
LIT-75-21							
LIT-75-25	CP-16-3		2	Analog Control	75-E-141	I-13	16,10,8
FV-75-24	16-DP-1		1	480V Power	75-E-141	I-13	16,10,8
LIT-75-20	16-LP-1		1	120V Inst. Power	75-E-141	I-13	16,10,8
Area 60 60-JB-D							
(ZSC-60-11-1							
ZSC-60-11-2	CP-16-3		1	Discrete Control	60-E-142	I-12	9,8
Area 60 60-JB-A							
(LT-60-4-1							
LT-60-4-2	CP-16-3		1	Analog Control	60-E-142	I-12	9,8
FIT-12-1							
M-12-19	CP-16-3		2	Analog Control	12-E-141	I-1	7
AIT-12-31							
M-12-19							
FP-12-1							
FP-12-2							
AIT-58-9							
FSL-58-8							
FP-58-1					12-E-141,		
AIT-56-1					58-E-141,		
FP-56-1	CP-16-3		4	120V Control	56-E-141	I-1, I-11, I-14	7
FIT-52-4							
PIT-52-3	CP-16-3		1	Analog Control	52-E-141	I-9	14,5
FV-75-24	16-DP-1		1	480V Power	75-E-141	I-13	16,10,8
LIT-75-20	16-LP-1		1	120V Inst. Power	75-E-141	I-13	16,10,8
75-HT-1A, 1B, 1C							

DUCT BANK ID	FROM	TO	CONDUIT SIZE (IN INCHES)	DESCRIPTION	ELECTRICAL DRAWING REFERENCE	PID REFERENCE (also in DB)	COMMENTS
P-75-30-1		80-MCC-1A	1.5	480V Power	75-E-141	I-13	16.10.8.5
HS-75-30-1(RESET)							
HS-75-30-1(OOR)							
PSH-75-31-1							
TPS-75-30-1							
MSH-75-30-1	80-MCC-1A		1	120V Control	75-E-141	I-13	16.10.8.5
P-75-30-2		80-MCC-1B	1.5	480V Power	75-E-141	I-13	16.10.8.5
HS-75-30-2(RESET)							
HS-75-30-2(OOR)							
PSH-75-31-2							
TPS-75-30-2							
MSH-75-30-2	80-MCC-1B		1	120V Control	75-E-141	I-13	16.10.8.5
B-75-1-1		80-MCC-1A	1.5	480V Power	75-E-141	I-5	16.10.8.5
HS-75-1-1(RESET)							
HS-75-1-1(OOR)							
TSH-75-2-1							
PSH-75-2-1							
TPS-75-1-1							
MSH-75-1-1	80-MCC-1A		1	120V Control	75-E-141	I-5	16.10.8.5
B-75-1-2		80-MCC-1A	1.25	480V Power	75-E-141	I-5	16.10.8.5
HS-75-1-2(RESET)							
HS-75-1-2(OOR)							
TSH-75-2-2							
PSH-75-2-2							
TPS-75-1-2							
MSH-75-1-2	80-MCC-1A		1	120V Control	75-E-141	I-5	16.10.8.5
Lights Area 60	80-LP-1		1	208V Lighting	60-E-142		9.8.5
Light switch Area 60	50-LC-2						
Recept Area 60	80-LP-1		1	120V Lighting	60-E-142		9.8.5
B-60-1-1		80-MCC-1A	1.5	480V Power	60-E-142	I-5	9.8.5
HS-60-1-1(RESET)							
HS-60-1-1(OOR)							
TSH-60-2-1							
PSH-60-2-1							
TPS-60-1-1							
MSH-60-1-1	80-MCC-1A		1	120V Control	60-E-142	I-5	9.8.5
B-60-1-2		80-MCC-1B	1.5	480V Power	60-E-142	I-5	9.8.5
HS-60-1-2(RESET)							
HS-60-1-2(OOR)							
TSH-60-2-2							
PSH-60-2-2							
TPS-60-1-2							
MSH-60-1-2	80-MCC-1B		1	120V Control	60-E-142	I-5	9.8.5
B-60-1-3		80-MCC-1A	1.5	480V Power	60-E-142	I-5	9.8.5
HS-60-1-3(RESET)							
HS-60-1-3(OOR)							
TSH-60-2-3							
PSH-60-2-3							
TPS-60-1-3							
MSH-60-1-3	80-MCC-1A		1	120V Control	60-E-142	I-5	9.8.5
P-60-9-1		80-MCC-1A	1	480V Power	60-E-142	I-12	9.8.5
HS-60-9-1(OOR)							
MSH-60-9-1	80-MCC-1A		1	120V Control	60-E-142	I-12	9.8.5
P-60-9-2		80-MCC-1B	1	480V Power	60-E-142	I-12	9.8.5
HS-60-9-2(OOR)							
MSH-60-9-2	80-MCC-1B		1	120V Control	60-E-142	I-12	9.8.5
MM-60-5-1		80-MCC-1A	1	480V Power	60-E-141	I-12	9.8.5
HS-60-5-1(OOR)							
TSH-60-5-1	80-MCC-1A		1	120V Control	60-E-141	I-12	9.8.5
XS-60-5-1	80-MCC-1A		1	Analog Control	60-E-141	I-12	9.8.5
MM-60-6-1		80-MCC-1A	1	480V Power	60-E-141	I-12	9.8.5
HS-60-6-1(OOR)							
TSH-60-6-1	80-MCC-1A		1	120V Control	60-E-141	I-12	9.8.5
XS-60-6-1	80-MCC-1A		1	Analog Control	60-E-141	I-12	9.8.5
MM-60-5-2		80-MCC-1B	1	480V Power	60-E-141	I-12	9.8.5
HS-60-5-2(OOR)							
TSH-60-5-2	80-MCC-1B		1	120V Control	60-E-141	I-12	9.8.5
XS-60-5-2	80-MCC-1B		1	Analog Control	60-E-141	I-12	9.8.5
MM-60-6-2		80-MCC-1B	1	480V Power	60-E-141	I-12	9.8.5
HS-60-6-2(OOR)							
TSH-60-6-2	80-MCC-1B		1	120V Control	60-E-141	I-12	9.8.5
XS-60-6-2	80-MCC-1B		1	Analog Control	60-E-141	I-12	9.8.5
Lights Area 12	80-LP-1		1	120V Lighting	12-E-141		7.5
Recept Area 12	80-LP-1		1	120V Recept	12-E-141		7.5
Recept Area 12	80-LP-1		1	Dedicated 30A Recept	12-E-141		7.5
FIT-12-1							
AIT-12-31							
AIT-58-9					12-E-141,		
FSL-58-8					58-E-141,		
AIT-56-1	80-LP-1		2	120V Inst. Power	56-E-141	I-1, I-11, I-14	7.5
M-12-19	80-LP-1		1	120V Inst. Power	12-E-141	I-1	7.5
FP-12-1	80-DP-1		1	480V Power	12-E-141	I-1	7.5
FP-12-2	80-DP-1		1	480V Power	12-E-141	I-1	7.5
FP-58-1	80-DP-1		1	480V Power	58-E-141	I-11	7.5
FP-56-1	80-MCC-1B		1	480V Power	56-E-141	I-14	7.5
16-DP-1	80-SWGR-1		3	480V Pwr	16-E-141	NA	6.5
CP-16-3	CP-80-1		4	Network	95-E-610	I-18	6.5
CP-16-2	CP-80-1		4	Network	95-E-610	I-18	6.5
16-FACP-1	80-FACP-1		1	Fire Alarm Sys	95-E-610	NA	6.5
60-HT-1A, 1B, 1C, 1D, 1E	80-LP-2		1	120V Power	60-E-141		9.8.5
12-HT-1	80-LP-2		1	120V Power	12-E-141		7.5
56-HT-1	80-LP-2		1	120V Power	56-E-141		7.5
58-HT-1	80-LP-2		1	120V Power	58-E-141		7.5
Duct Detector	80-FACP-1		1	Fire Alarm	58-E-141		7.5
Lights Area 50							
Recept Area 50	80-LP-1		1	120V Power	50-E-141	na	13
ME-50-9							
50-HT-1							
ME-50-11	80-LP-2		1	120V Power	50-E-141	na	13
FIT-50-1							
AIT-50-6							
AIT-50-13-1							
AIT-50-13-2							
AIT-50-7	80-LP-1		2	120V Inst. Power	50-E-141	I-6	13
P-50-5-1	80-LP-1		1	120V Power	50-E-141	I-6	13
P-50-5-2	80-LP-1		1	120V Power	50-E-141	I-6	13
M-50-8	80-LP-1		1	120V Power	50-E-141	I-6	13
LCP-52-2	80-LP-1		1	120V Inst. Power	52-E-141	I-9	14
LCP-52-2	CP-16-3		1	120V Control	52-E-141	I-9	14
FIT-52-4	80-LP-1		1	120V Inst. Power	52-E-141	I-9	14
P-52-1-1	80-MCC-1A		2	480V Pwr	52-E-141	I-9	14
HS-52-1-1							
TSH-52-1-1							
MSH-52-1-1	80-MCC-1A		1	120V Control	52-E-141	I-9	14
P-52-1-2	80-MCC-1B		2	480V Pwr	52-E-141	I-9	14
HS-52-1-2							
TSH-52-1-2							
MSH-52-1-2	80-MCC-1B		1	120V Control	52-E-141	I-9	14
P-52-1-3	80-MCC-1A		2	480V Pwr	52-E-141	I-9	14
HS-52-1-3							
TSH-52-1-3							
MSH-52-1-3	80-MCC-1A		1	120V Control	52-E-141	I-9	14

DUCT BANK ID	FROM	TO	CONDUIT SIZE (IN INCHES)	DESCRIPTION	ELECTRICAL DRAWING REFERENCE	PID REFERENCE (also in DB)	COMMENTS
52-HT-1		80-LP-2	1	120V Power	52-E-141		14
MH-5		80-MCC-1A	2	EMPTY			
MH-5		80-MCC-1A	2	EMPTY			
MH-5		80-MCC-1B	2	EMPTY			
MH-5		80-MCC-1B	2	EMPTY			
MH-5		80-MCC-1B	2	EMPTY			
MH-5		80-MCC-1B	2	EMPTY			
MH-5 (FP-12-3)		80-DP-1A	2	480V Pwr	05-E-201	08-N-602	5, 7, 17
HH-5A		80-LP-1	2	EMPTY			
HH-5A		CP-80-1	2	EMPTY			Stub up in electrical building
HH-5A		CP-80-1	2	EMPTY			
FIT-12-21/M-12-19	MH-7 (CP-16-3)		2	120V Inst. Power	12-E-201	08-N-602	6, 7
M-12-19	MH-7A (CP-16-3)		2	Discrete Control	12-E-201	08-N-602	6, 7
FIT-12-21/M-12-19	HH-7A (CP-16-3)		2	Analog Control	12-E-201	08-N-602	6, 7



### GENERAL NOTES

- CONTRACTOR TO USE EXISTING EMPTY CONDUITS BETWEEN MANHOLES AND HANDHOLES.
- CONTRACTOR TO CONFIRM AVAILABILITY OF ALL EMPTY CONDUITS PRIOR TO COMMENCING WORK



ELECTRICAL  
**DUCT BANK SYSTEM SCHEDULE SHEET 1 OF 2**

MILLEY'S CREEK WPCP SCREEN REPLACEMENT  
 WATER WORKS AND SANITARY SEWER BOARD  
 CITY OF MONTGOMERY, ALABAMA

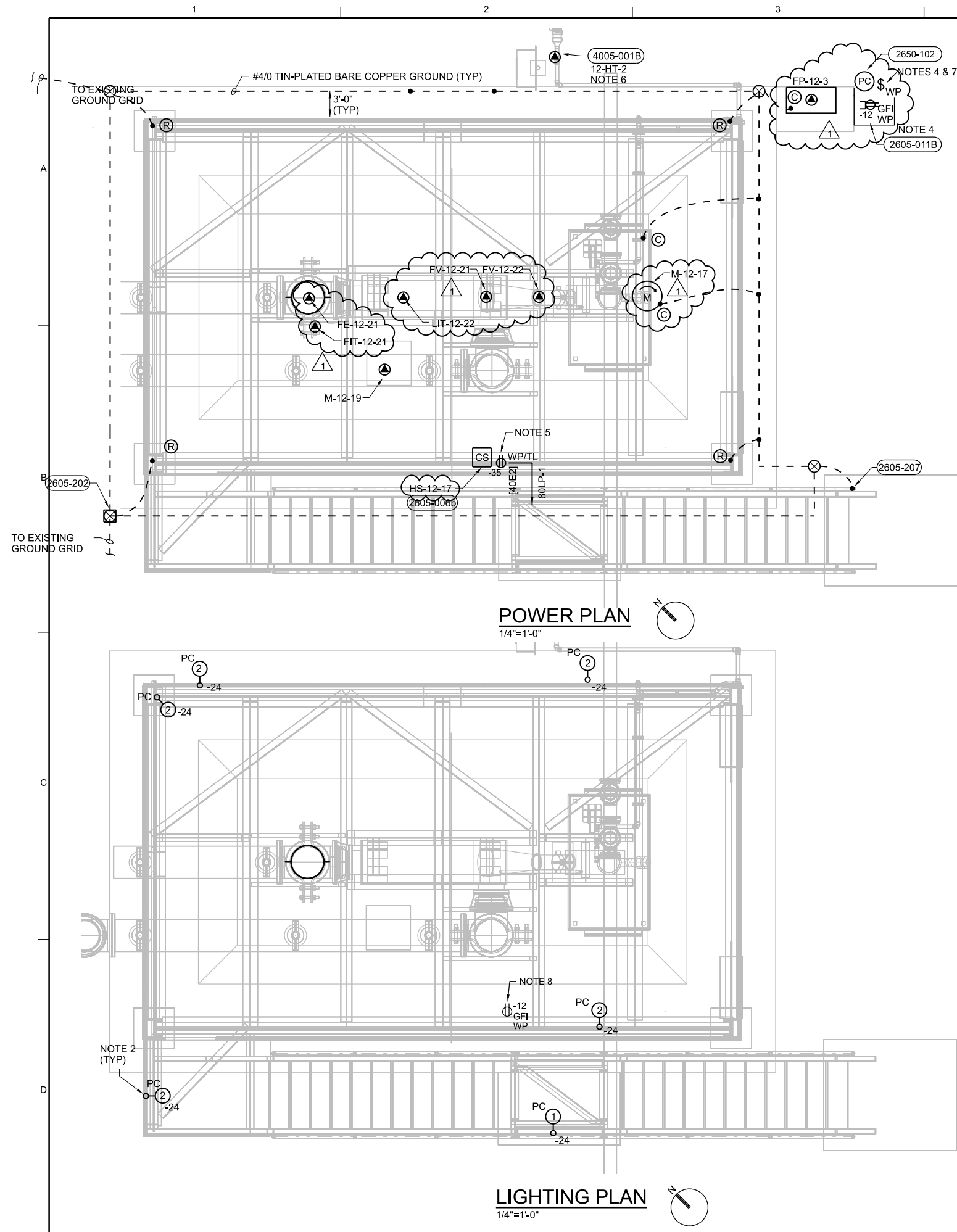
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE JULY 2023
PROJ D3571200
DWG 05-E-602
SHEET 18 of 32

BID DOCUMENTS

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.

DR T TWIST  
 V MCCORVEY  
 D NICHOLSON  
 APVD BY D NICHOLSON



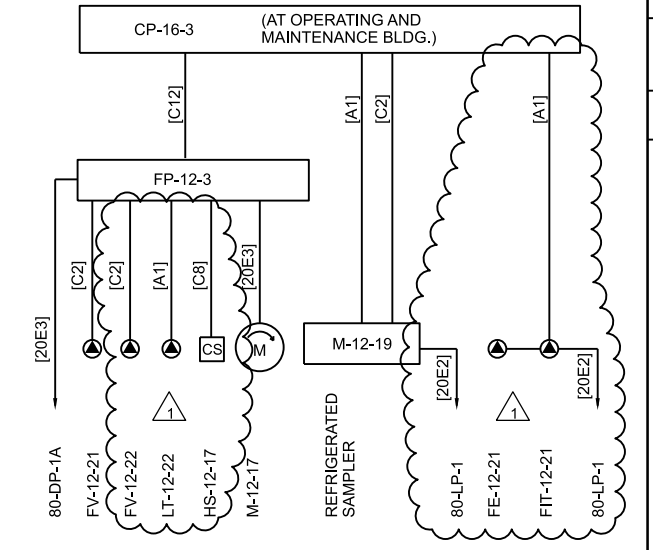


**HAZARDOUS LOCATION NOTES**

- PER NFPA 820, TABLE 5.2, ROW 1, LINE A & C, AND ROW 4, LINE A & C, THE HEADWORKS AREA IS CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
  - ENTIRE ENCLOSED SPACE IS CONSIDERED CLASS I, DIVISION 1 LOCATION.
  - ENVELOPE 18 INCHES ABOVE THE TOP OF THE CHANNEL, BAR SCREENS, AND VORTEX GRIT SEPARATOR AND EXTENDING 18 INCHES BEYOND THE EXTERIOR WALL OF THE STRUCTURE AND ENVELOPE 18 INCHES ABOVE GRADE EXTENDING 10 FT HORIZONTALLY FROM EXTERIOR WALL OF THE STRUCTURE IS CONSIDERED CLASS I, DIVISION 2 LOCATION.
  - ALL AREAS UNDERNEATH THE STRUCTURE IS CONSIDERED CLASS I, DIVISION 2 LOCATION.
  - THE AREA BEYOND THE ENVELOPES ARE UNCLASSIFIED.
- PROVIDE SUITABLE WIRING METHODS AND MATERIALS FOR HAZARDOUS LOCATIONS PER NFPA 70 (NEC).
- PER NFPA 820, TABLE 5.2, ROW 3, LINES A & C, THE SPLITTER BOX AREA IS CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
  - THE AREA WITHIN THE ENCLOSED SPLITTER BOX IS CONSIDERED A CLASS I, DIVISION 1 LOCATION.
  - ENVELOPE 18 INCHES ABOVE THE TOP OF THE CHANNEL AND EXTENDING 18 INCHES BEYOND THE EXTERIOR WALL OF THE STRUCTURE AND ENVELOPE 18 INCHES ABOVE GRADE EXTENDING 10 FT HORIZONTALLY FROM EXTERIOR WALL OF THE STRUCTURE IS CONSIDERED A CLASS 1, DIVISION 2 LOCATION.
  - THE AREA BEYOND THE ENVELOPE IS UNCLASSIFIED.

**CORROSIVE LOCATION NOTE**

- THE HEADWORKS AND SPLITTER BOX ARE CONSIDERED CORROSIVE AREAS.



**RISER DIAGRAM**

- NOTES:**
- MOUNT THE BOTTOM OF THE LUMINAIRE AT 8'-0" ABOVE GRADE.
  - STANCHION MOUNT LUMINAIRES ON UPPER PLATFORM WITH BOTTOM AT 8'-0" ABOVE PLATFORM.
  - PROVIDE MOUNTING PEDESTAL FOR LIGHT SWITCH, PHOTOCELL, AND RECEPTACLE OUTSIDE OF HAZARDOUS AREAS.
  - LUMINAIRES AND RECEPTACLES SHALL BE POWERED FROM PANELBOARD 80LP1, CIRCUITS 12 AND 24. LUMINAIRES SHALL BE CONTROLLED VIA LIGHT SWITCH AND PHOTOCELL MOUNTED ON 1" CONDUIT STANCHION AT 6" ABOVE GRADE. PROVIDE [30E2] ENTIRE LENGTH OF RUN.
  - NEMA L5-30R TWIST LOCK RECEPTACLE FOR PORTABLE GATE VALVE OPERATOR MOUNTED AT 48 INCHES ON TOP OF HANDRAIL. SEE DETAIL (2605-006B)
  - PROVIDE HEAT TRACE FOR EXPOSED W3 PIPING. PROVIDE [20E2] WIRING FROM 12-HT-1 TO 12-HT-2.
  - RECEPTACLES MOUNTED AT 48" AFG, WITH WEATHER-PROOF DIE-CAST METAL COVERS, U.L. LISTED FOR WET LOCATIONS WHILE IN USE. REFER TO SECTION 26 27 26, WIRING DEVICES FOR ADDITIONAL REQUIREMENTS.
  - RECEPTACLE MOUNTED AT 48 INCHES ON TOP OF HANDRAIL, SEE DETAIL PROVIDE WITH WEATHER-PROOF DIE-CAST METAL COVER, UL LISTED FOR WET LOCATIONS WHILE IN USE. REFER TO SECTION 26 27 26, WIRING DEVICES FOR ADDITIONAL REQUIREMENTS.

(2605-006B)

NO.	DATE	DR	CHK	BY
		T. TWIST	V. MCCORVEY	D. NICHOLSON

MILLEY'S CREEK WPCP SCREEN REPLACEMENT  
 WATER WORKS AND SANITARY SEWER BOARD  
 CITY OF MONTGOMERY, ALABAMA

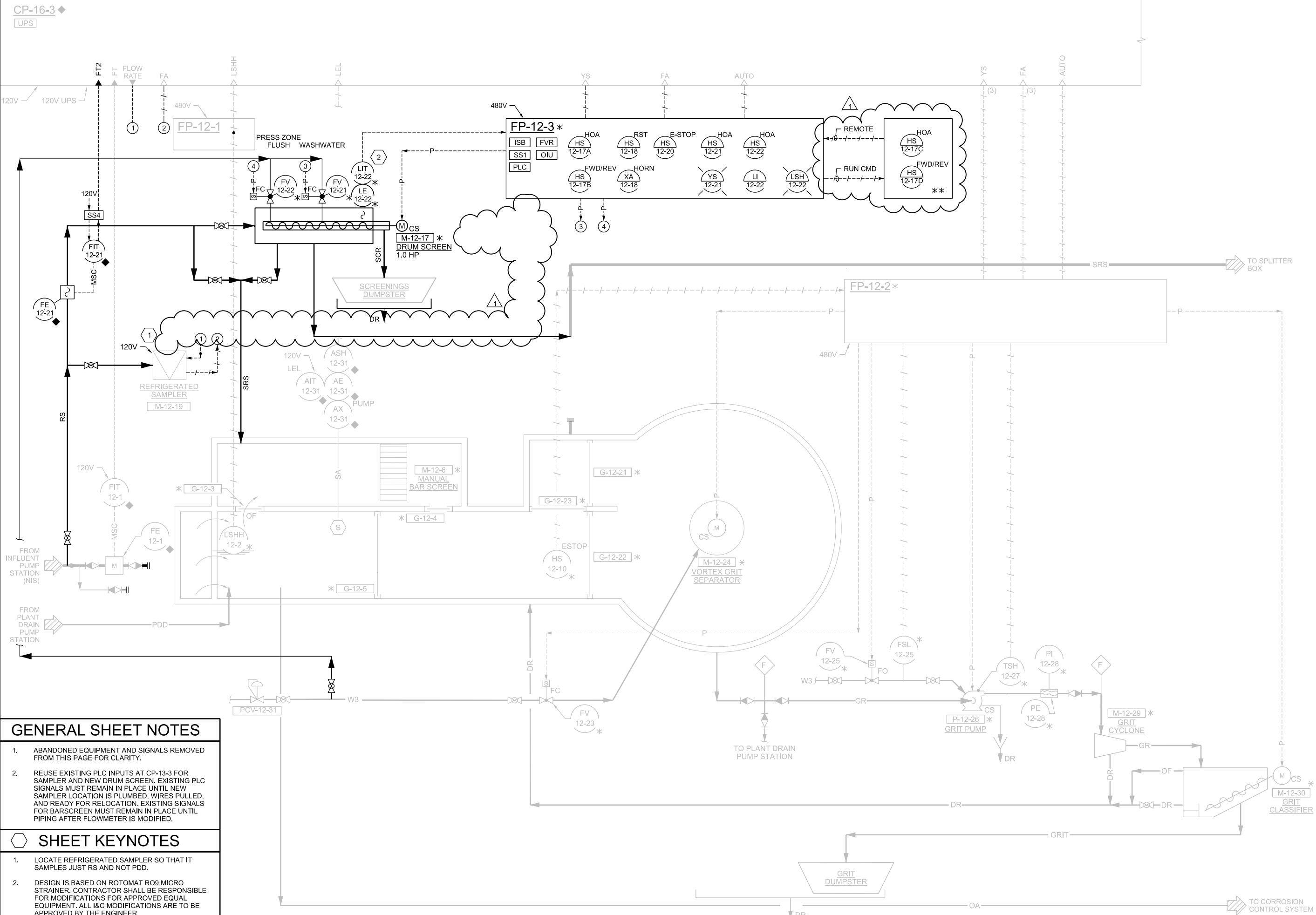
# JACOBS

ELECTRICAL  
**HEADWORKS  
 POWER AND LIGHTING PLANS**

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	JULY 2023
PROJ	D3571200
DWG	12-E-201
SHEET	19 of 32

**BID DOCUMENTS**



**GENERAL SHEET NOTES**

1. ABANDONED EQUIPMENT AND SIGNALS REMOVED FROM THIS PAGE FOR CLARITY.
2. REUSE EXISTING PLC INPUTS AT CP-13-3 FOR SAMPLER AND NEW DRUM SCREEN. EXISTING PLC SIGNALS MUST REMAIN IN PLACE UNTIL NEW SAMPLER LOCATION IS PLUMBED, WIRES PULLED, AND READY FOR RELOCATION. EXISTING SIGNALS FOR BARSCREEN MUST REMAIN IN PLACE UNTIL PIPING AFTER FLOWMETER IS MODIFIED.

**SHEET KEYNOTES**

1. LOCATE REFRIGERATED SAMPLER SO THAT IT SAMPLES JUST RS AND NOT PDD.
2. DESIGN IS BASED ON ROTOMAT R09 MICRO STRAINER. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS FOR APPROVED EQUAL EQUIPMENT. ALL I&C MODIFICATIONS ARE TO BE APPROVED BY THE ENGINEER.

INSTRUMENTATION AND CONTROL		MILLEY'S CREEK WPCP SCREEN REPLACEMENT	
P&ID		WATER WORKS AND SANITARY SEWER BOARD	
HEADWORKS -		CITY OF MONTGOMERY, ALABAMA	
NEW AND RELOCATED EQUIPMENT		REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.	
DATE	JULY 2023	NO. DATE	1 8/1/2023
PROJ	D3571200	DR	C HARRIS A PASTRANA
DWG	08-N-602	CHK	G GRAY
SHEET	22 of 32	APVD	C HARRIS