

WALT WILLIAMS FILTRATION PLANT FILTER REHABILITATION

980 CAMERON MILL RD, LAGRANGE, GEORGIA 30240

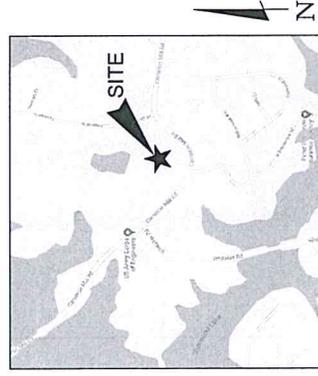


LAGRANGE
GEORGIA

BARGE
DESIGN SOLUTIONS

1201 Front Avenue // Suite F // Columbus, GA 31901
PHONE (706) 321-4590

MAY 2022
OWNER AND AGENCY REVIEW



LOCATION MAP

NOT TO SCALE

DRAWINGS MAY NOT HAVE BEEN PRINTED AT ORIGINAL FULL-SIZE SCALE
1 INCH

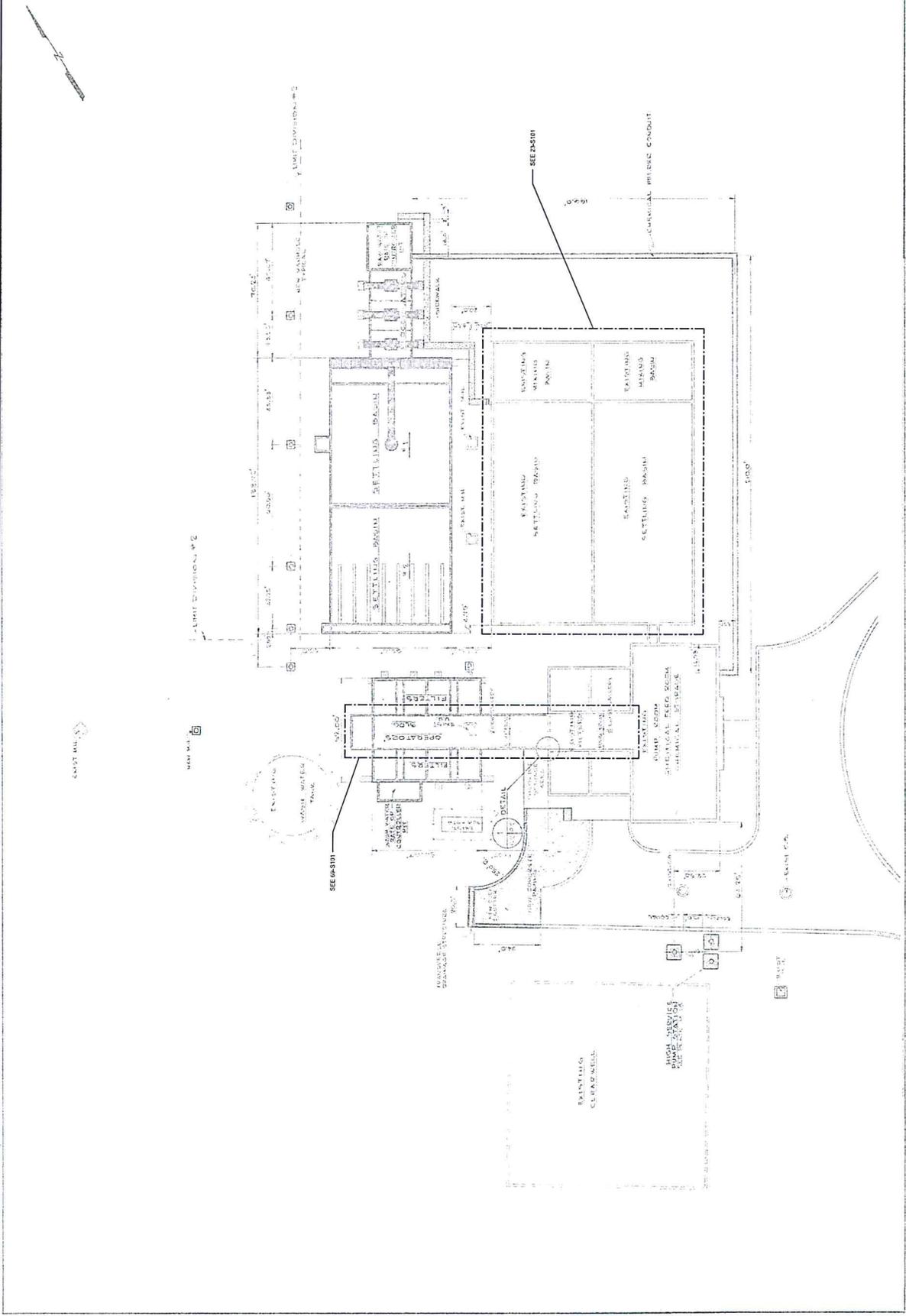


Digitally signed by Brian H
Williams
Date: 2022.05.04
14:08:05-05'00'

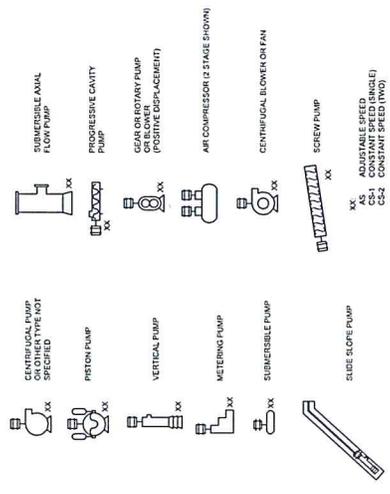
LA GRANGE, GEORGIA
WALT WILLIAMS FILTRATION PLANT
STRUCTURAL OVERALL PLAN
FILTER VALVES REPLACEMENT

REV	DATE	DESCRIPTION
1	05/03/22	ISSUE FOR PERMIT REVIEW
2	05/03/22	OWNER AND AGENCY REVIEW

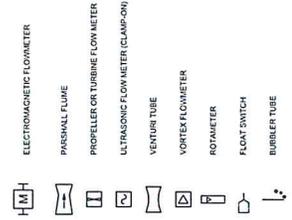
00-S100
FILE NO. 3643211



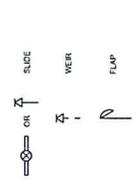
PUMP & BLOWER SYMBOLS



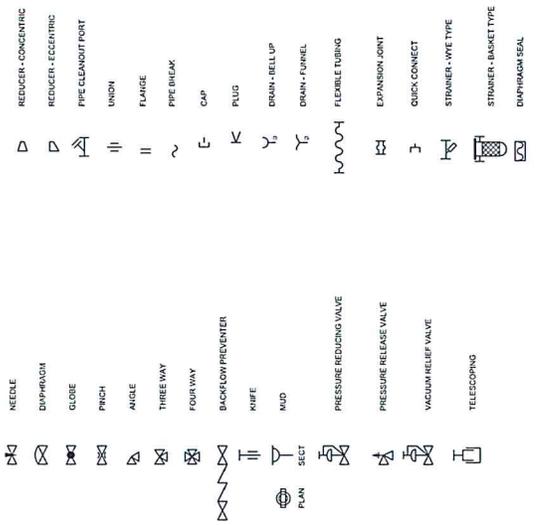
PRIMARY ELEMENT



GATES



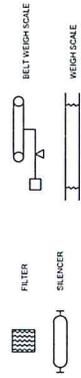
FITTING SYMBOLS



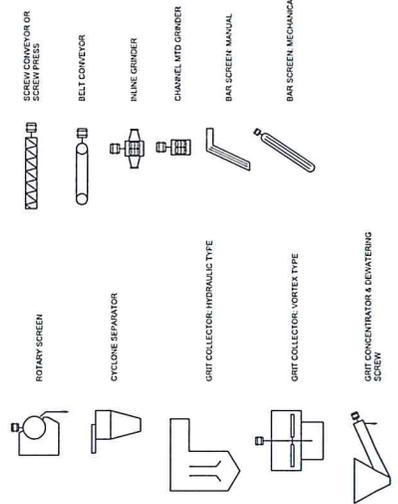
WASTEWATER PROCESS SYMBOLS



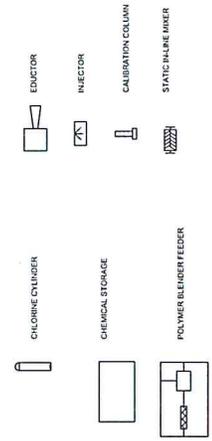
MISCELLANEOUS SYMBOLS



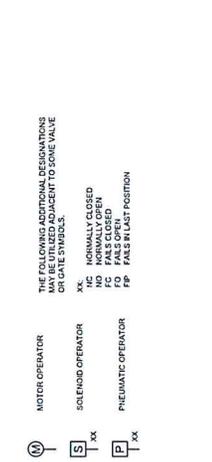
SOLIDS HANDLING EQUIPMENT SYMBOLS



CHEMICAL FEED EQUIPMENT SYMBOLS



VALVE & GATE ACTUATOR SYMBOLS



THE FOLLOWING ADDITIONAL DESIGNATIONS ARE APPLICANT TO SOME VALVE OR GATE SYMBOLS.

- XX NORMALLY CLOSED
- XX NORMALLY OPEN
- FC FALLS CLOSED
- FO FALLS OPEN
- FP FALLS IN LAST POSITION



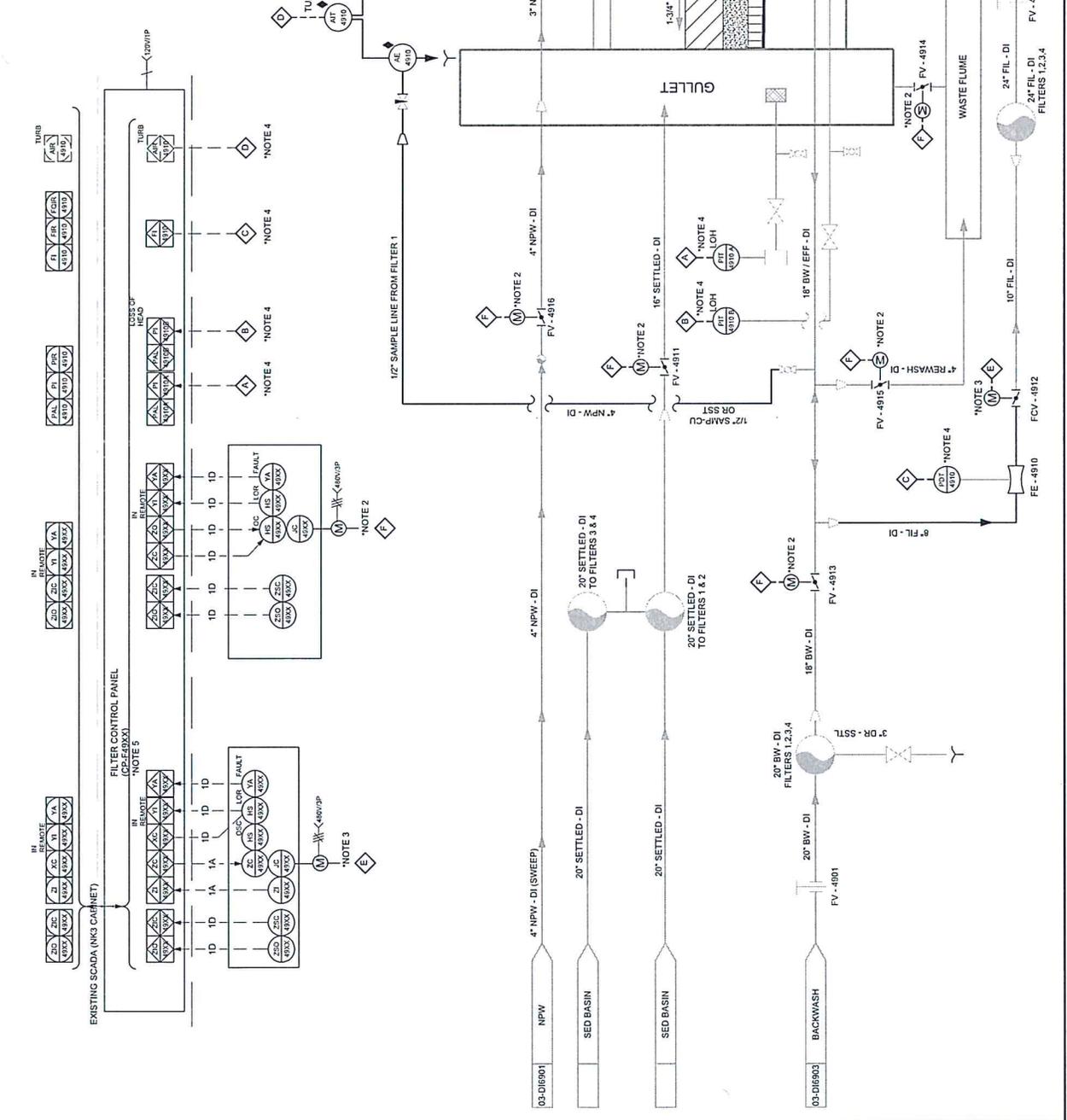
Michael Alexander
Date: 2022.05.05
15:54:25-0400

WALT WILLIAMS FILTRATION PLANT
LANGUAGE GEORGIA
P&ID - 1949 FILTER BASIN

NO.	DATE	BY	CHKD.	DESCRIPTION				
1	05/05/22	MA	MA	ISSUE FOR PERMIT				
2	05/05/22	MA	MA	OWNER AND CLIENT REVIEW				
3	05/05/22	MA	MA	REVISED PER COMMENTS				
4	05/05/22	MA	MA	REVISED PER COMMENTS				
5	05/05/22	MA	MA	REVISED PER COMMENTS				
6	05/05/22	MA	MA	REVISED PER COMMENTS				
7	05/05/22	MA	MA	REVISED PER COMMENTS				
8	05/05/22	MA	MA <tr <td>9</td> <td>05/05/22</td> <td>MA</td> <td>MA</td> <td>REVISED PER COMMENTS</td>	9	05/05/22	MA	MA	REVISED PER COMMENTS
10	05/05/22	MA	MA	REVISED PER COMMENTS				

03-DI4901
FILE NO. 369432-11

- NOTES:**
- REFER TO SPECIFICATIONS SECTION 41.50 FOR OPERATION OF FILTER VALVES.
 - CONTROLS FOR THE 3 POSITION VALVES ARE SIMILAR AND ARE NOT SHOWN FOR CLARITY.
 - CONTROLS FOR THE MODULATING VALVES ARE NOT SHOWN FOR CLARITY.
 - CONNECT THE TURBIDITY METER FLOW SIGNAL TO THE LOCAL FILTER CONTROLLER.
 - FILTER TANKS #1, #3, AND #4 AND THE CORRESPONDING VALVES ARE IDENTICAL FOR CLARITY.
 - INSTALLED ON EXISTING FILTER OPERATING CONSOLE.
- FILTER 1**
- CONTROLLER CP#4901
 - 2-POSITION VALVES - FV#4911, 4913, MOD VALVE - FV#4912
 - TURB METER - TM#4910 (CHANNEL 1)
 - LOSS OF HEAD - FIT#4904, 4908
 - 1#1915
 - CONTROLLER CP#4902
 - 2-POSITION VALVES - FV#4921, 4923, MOD VALVE - FV#4922
 - TURB METER - TM#4910 (CHANNEL 2)
 - LOSS OF HEAD - FIT#4924, 4928
 - 1#1915
 - CONTROLLER CP#4903
 - 2-POSITION VALVES - FV#4931, 4933, MOD VALVE - FV#4932
 - TURB METER - TM#4910 (CHANNEL 2)
 - LOSS OF HEAD - FIT#4934, 4938
 - FLOW METER - FIT#4930
 - LOSS OF HEAD - FIT#4904, 4908
 - 1#1915
- FILTER 3**
- CONTROLLER CP#4904
 - 2-POSITION VALVES - FV#4941, 4943, MOD VALVE - FV#4942
 - TURB METER - TM#4910 (CHANNEL 2)
 - LOSS OF HEAD - FIT#4944, 4948
 - 1#1915



Digitally signed by
Michael Alexander
Date: 2022.05.05
15:54:34-0400

**WALT WILLIAMS FILTRATION
FILTRATION PLANT
LAGRANGE, GEORGIA**

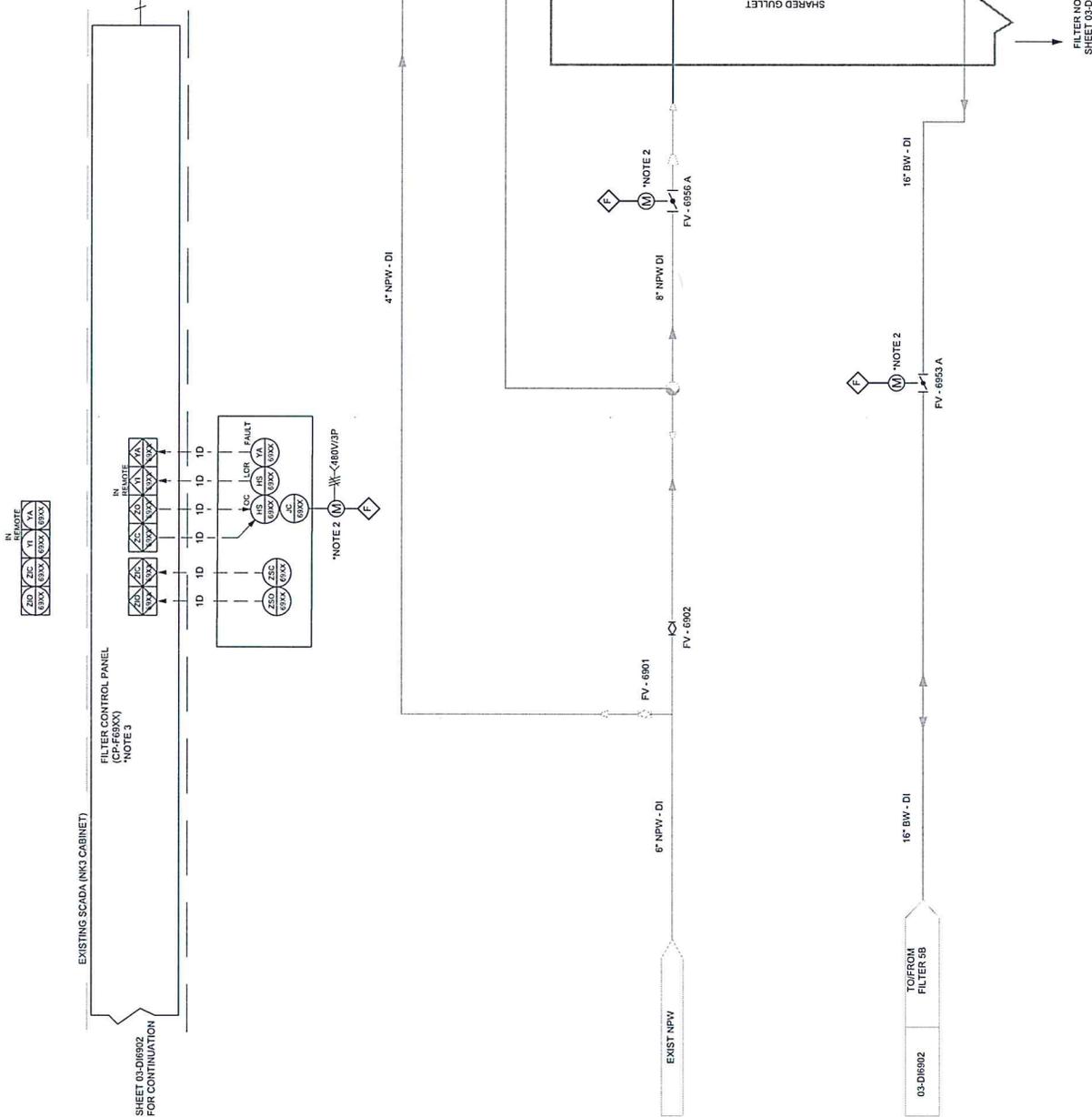
P&ID - 1969 FILTER BASIN

REV	DATE	BY	CHKD	DESCRIPTION
1	05/02/22	MA	MA	ISSUE FOR PERMIT
2	05/02/22	MA	MA	OWNER'S AND AGENCY REVIEW

03-DI6901
FILE NO. 36432-11

NOTES:

- REFER TO SPECIFICATIONS SECTION 4.0.60 FOR OPERATION OF FILTER VALVES.
- CONTROLS FOR THE 2-POSITION VALVES ARE SHOWN IN AIR AND ARE NOT SHOWN FOR CLARITY.
- PROVIDE 10 FILTER CONTROLLERS AND TANKS. FILTER TANKS #6, #7, AND #8 AND CONTROLS FOR TANKS #6, #7, AND #8 ARE IDENTICAL TO FILTER TANK #5 AND ARE NOT SHOWN FOR CLARITY.



EXISTING SCADA (NKS CABINET)
FILTER CONTROL PANEL (CP-F69XX)
NOTE 3

SHARED GULLET
FILTER NO. 5B
SHEET 03-DI6902

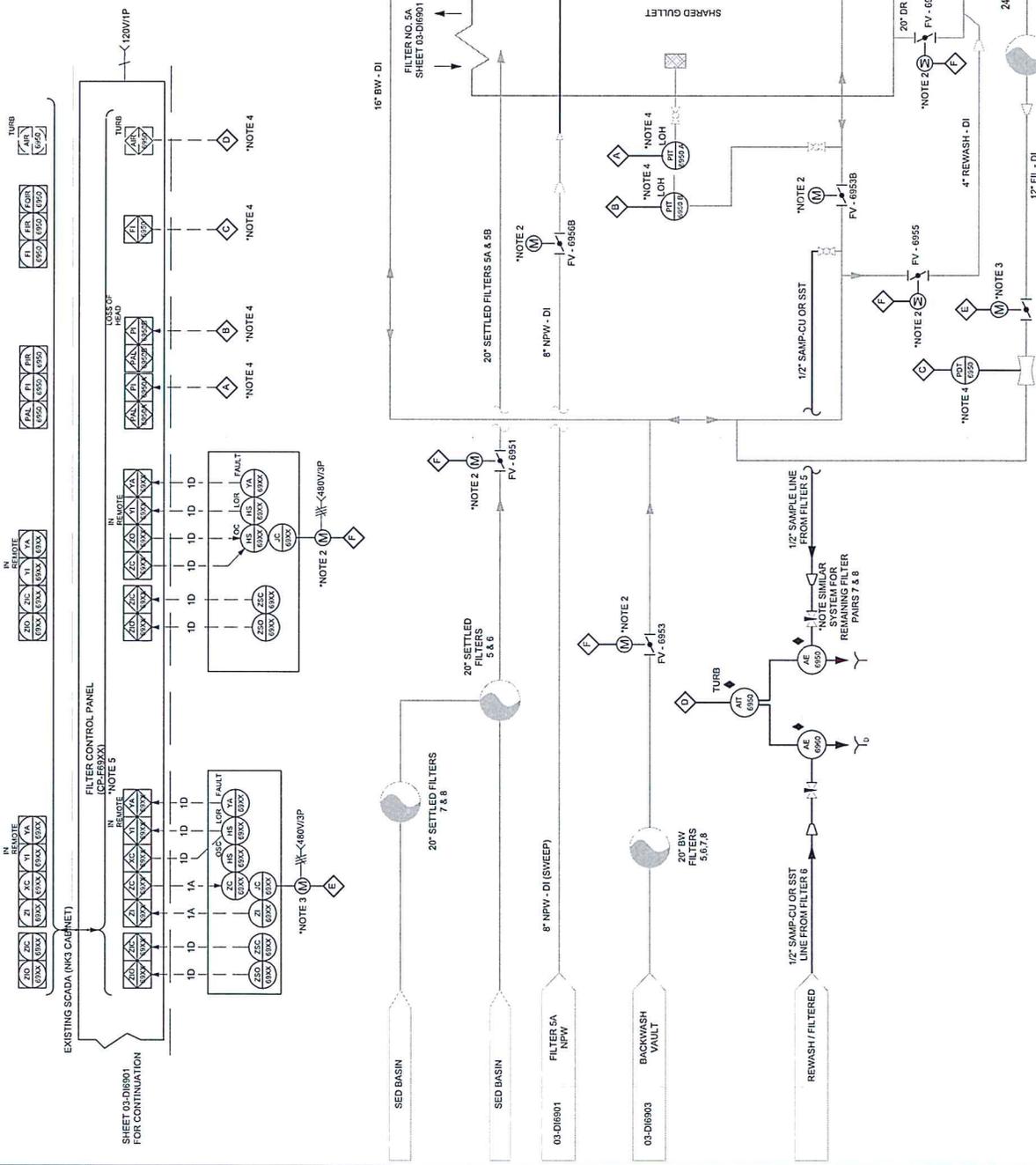
TO BLG 49
TO FILTER 5B

REV	DATE	BY	CHKD	DESCRIPTION
A	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
B	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
C	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
D	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
E	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
F	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION

NOTES:

- REFER TO SPECIFICATIONS SECTION 45.60 FOR OPERATION OF FILTER VALVES.
- CONTROLS FOR THE 2-POSITION VALVES ARE SIMILAR AND ARE NOT SHOWN FOR CLARITY.
- CONTROLS FOR THE MODULATING VALVES ARE SIMILAR AND ARE NOT SHOWN FOR CLARITY.
- CONNECT THE TURBIDITY METER, FLOW METER, AND LOSS OF HEAD TO THE LOCAL FILTER CONTROLLER.
- PROVIDE IN FILTER CONTROLLERS AND HIMS ONE FOR EACH PAIR OF FILTER IDENTICAL TO FILTER TANK #5 AND ARE IDENTICAL TO FILTER TANK #6 AND ARE NOT SHOWN FOR CLARITY.

- FILTER 1**
 2-POSITION VALVES - FV-4951, 5953,
 TURB METER - TM-6950 (CHANNEL 1)
 FLOW METER - FM-6950
 LOSS OF HEAD - PTT-6900A, 6908
 CONTROLLER GP-6906
- FILTER 2**
 2-POSITION VALVES - FV-4951, 5953,
 TURB METER - TM-6950 (CHANNEL 2)
 FLOW METER - FM-6950
 LOSS OF HEAD - PTT-6900A, 6908
 CONTROLLER GP-6907
- FILTER 3**
 2-POSITION VALVES - FV-4951, 5953,
 TURB METER - TM-6950 (CHANNEL 1)
 FLOW METER - FM-6950
 LOSS OF HEAD - PTT-6900A, 6908
 CONTROLLER GP-6908
- FILTER 4**
 2-POSITION VALVES - FV-4951, 5953,
 TURB METER - TM-6950 (CHANNEL 2)
 FLOW METER - FM-6950
 LOSS OF HEAD - PTT-6900A, 6908
 CONTROLLER GP-6909



SHEET 03-DI6901
FOR CONTINUATION

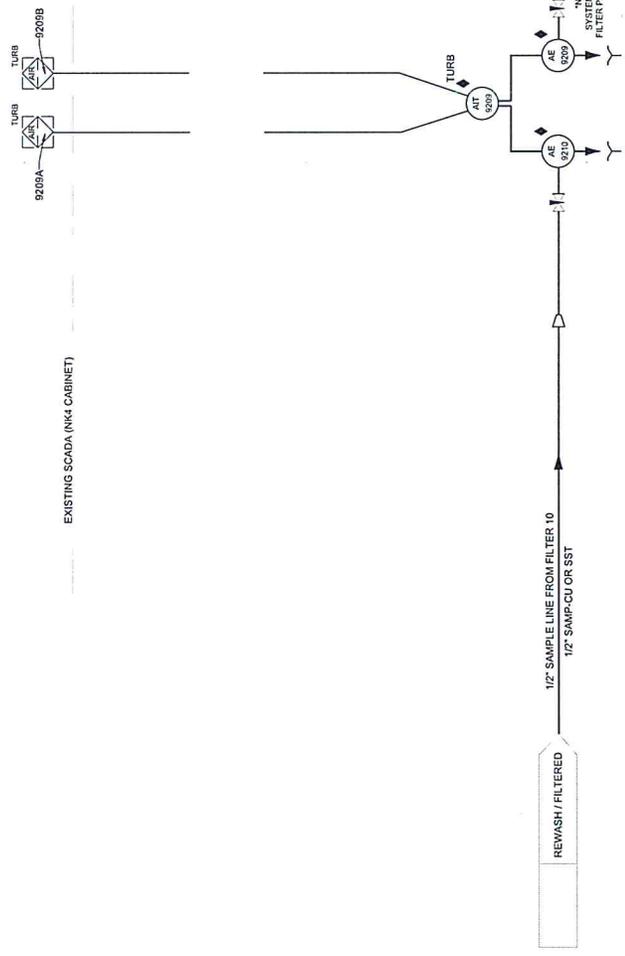
03-DI6902
FILE NO. 36432-11

Digital Signatures
Michael Q. Alexander
Date: 2022.05.05
16:55:02-04:00

P&ID - 1992 FILTER BASIN
WALT WILLIAMS FILTRATION
FILTER REHABILITATION
LORANCE, GEORGIA

REV	DATE	DESCRIPTION
1	05/05/22	ISSUED FOR PERMIT
2	05/05/22	ISSUED FOR PERMIT
3	05/05/22	ISSUED FOR PERMIT
4	05/05/22	ISSUED FOR PERMIT
5	05/05/22	ISSUED FOR PERMIT
6	05/05/22	ISSUED FOR PERMIT
7	05/05/22	ISSUED FOR PERMIT
8	05/05/22	ISSUED FOR PERMIT
9	05/05/22	ISSUED FOR PERMIT
10	05/05/22	ISSUED FOR PERMIT
11	05/05/22	ISSUED FOR PERMIT
12	05/05/22	ISSUED FOR PERMIT
13	05/05/22	ISSUED FOR PERMIT
14	05/05/22	ISSUED FOR PERMIT
15	05/05/22	ISSUED FOR PERMIT
16	05/05/22	ISSUED FOR PERMIT
17	05/05/22	ISSUED FOR PERMIT
18	05/05/22	ISSUED FOR PERMIT
19	05/05/22	ISSUED FOR PERMIT
20	05/05/22	ISSUED FOR PERMIT

03-DI9201
FILE NO. 36432-11



EXISTING SCADA (N4 CABINET)



Digitally signed by E. H. H.
DN: cn=E. H. H., o=Professional Engineer,
ou=State of Georgia, email=E.H.H.14085-14-05007@ga.gov

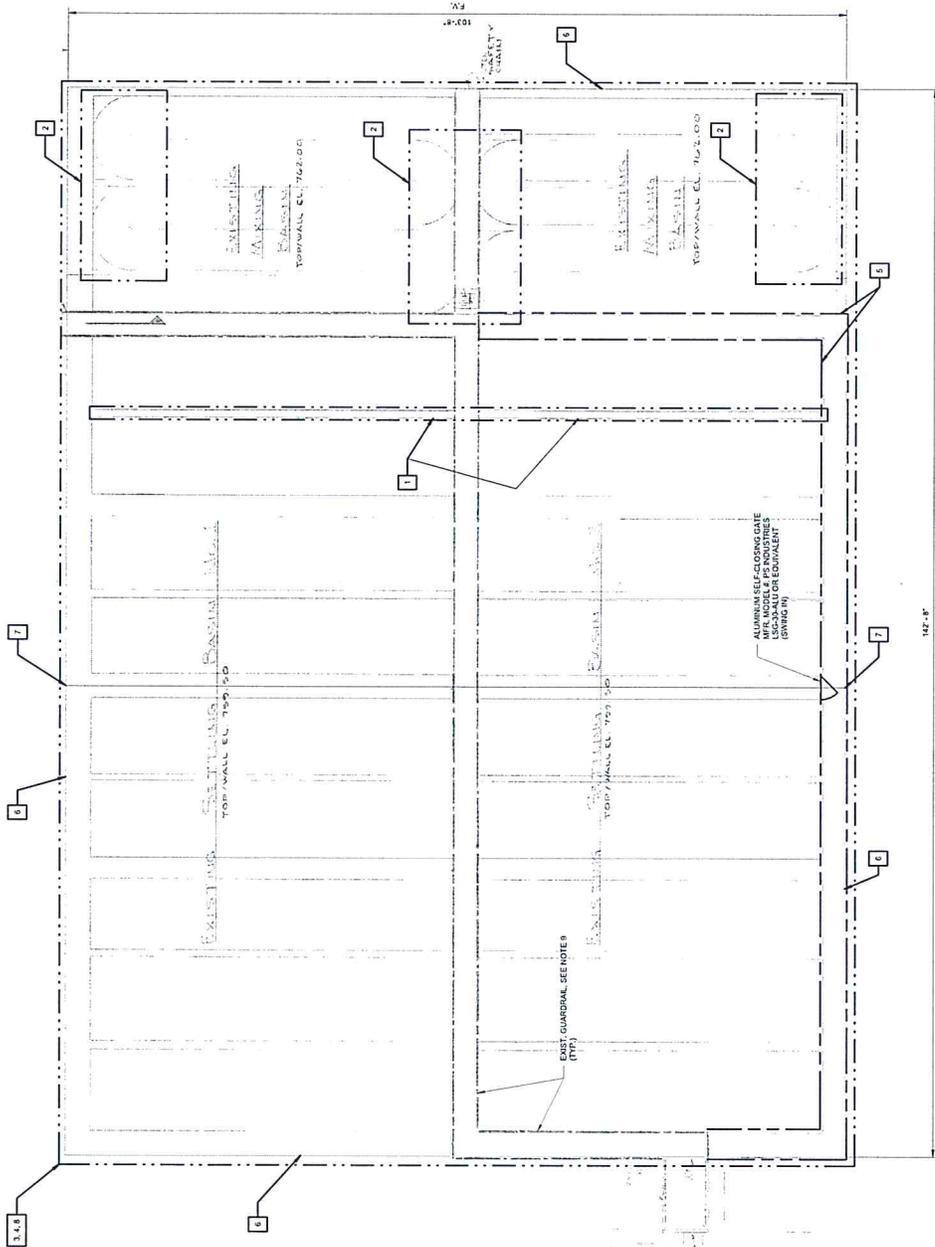
1949 BUILDING - SETTLING BASIN REPAIR PLAN
WALT WILLIAMS FILTRATION PLANT
LAFARGE, GEORGIA

REV	DATE	BY	DESCRIPTION
A	05/15/21	WILLIAMS	ISSUE FOR PERMIT
B	05/22/22	WILLIAMS	OWNER AND AGENCY REVIEW

23-S101
FILE NO. 36643211

1. REPLACE ENTIRE EXIST. INCREASED WALL W/ PERGLASS SETTLING WALL MEMBER SECTIONS AND SPACING SHALL MATCH EXIST. SEE DETAIL 223-3301.
2. REMOVE ALL EXIST. ROUNDED CORNER, NEW ROUNDED CORNER SHALL BE 1/4" RADIUS. FINISH WITH PERS AT A THICKNESS OF 1/8" MIN.
3. PREPARE AND REPAIR SURFACE (DETERIORATED CONCRETE) WITH POLYMER MODIFIED PORTLAND CEMENT AND PORTLANDS OF THE LOCALS DIRECTED BY ENGINEER (ENTIRE BASIN, UNIT PRICE).
4. REPAIR ALL CORRODED REINFORCING STEEL AS DIRECTED BY ENGINEER (ENTIRE BASIN, UNIT PRICE).
5. NEW ALUM. GUARDRAIL. SEE DETAIL 223-3301.
6. REPAIR AND RESEAL ALL EXISTING JOINTS WITH POLYURETHANE ADHESIVE AND POLYURETHANE GROUT AS DIRECTED BY ENGINEER (UNIT PRICE).
7. PREPARE AND RESEAL EXPANSION JOINT.
8. FOLLOWING ALL BASIN REPAIRS, APPLY PROTECTIVE SLAM (ENTIRE BASIN, UNIT PRICE).
9. ALUM. TIE BOARD TO BE ADDED TO ALL EXISTING GUARDRAILS. SEE DETAIL 223-3301 FOR TIE BOARD.

GENERAL NOTE: REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON REPAIR PROCEDURES AND ACCEPTABLE MATERIALS.



SCALE: 1/8" = 1'-0"
PLAN OF EXISTING SETTLING & MIXING BASINS

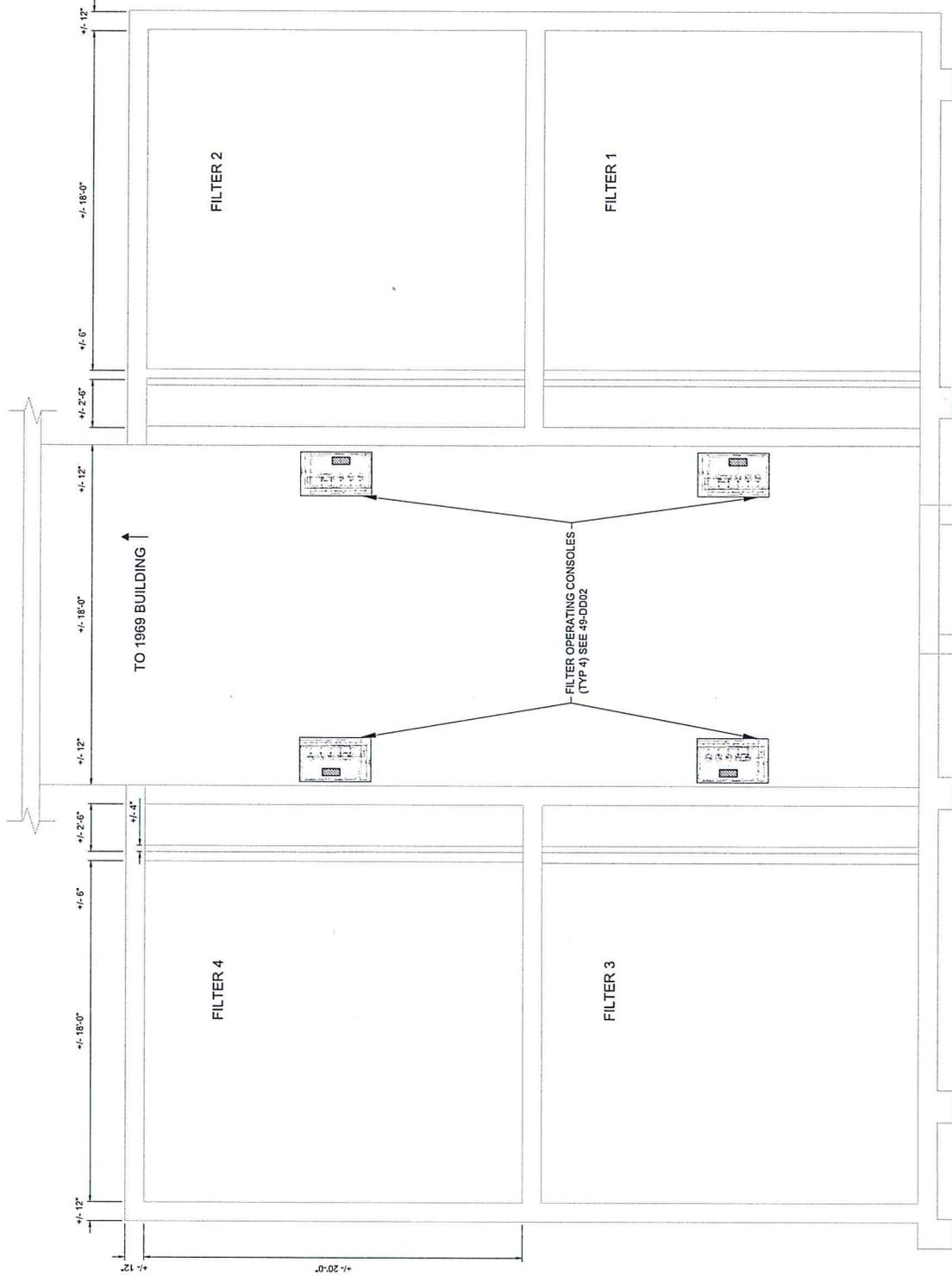
1 SETTLING BASIN REPAIR PLAN



NO.	DATE	DESCRIPTION
1	05/05/2022	ISSUED FOR PERMIT
2	05/05/2022	OWNER AND AGENCY REVIEW

NOTES:

- OPERATING CONSOLES SHALL BE REHABILITATED. REMOVE INTERNAL COMPONENTS, DIGITAL DISPLAY, PREPARE SURFACES FOR NEW HMI CONTROL PANEL (TYP 4). SEE SHEET 49-E102 AND 95-E701.



FILTER OPERATING CONSOLE - DEMO PLAN



REV	DATE	BY	CHKD	DESCRIPTION
1	05/05/22	MA	MA	ISSUE FOR PERMIT
2	05/05/22	MA	MA	ISSUE FOR PERMIT
3	05/05/22	MA	MA	ISSUE FOR PERMIT
4	05/05/22	MA	MA	ISSUE FOR PERMIT
5	05/05/22	MA	MA	ISSUE FOR PERMIT
6	05/05/22	MA	MA	ISSUE FOR PERMIT
7	05/05/22	MA	MA	ISSUE FOR PERMIT
8	05/05/22	MA	MA	ISSUE FOR PERMIT
9	05/05/22	MA	MA	ISSUE FOR PERMIT
10	05/05/22	MA	MA	ISSUE FOR PERMIT

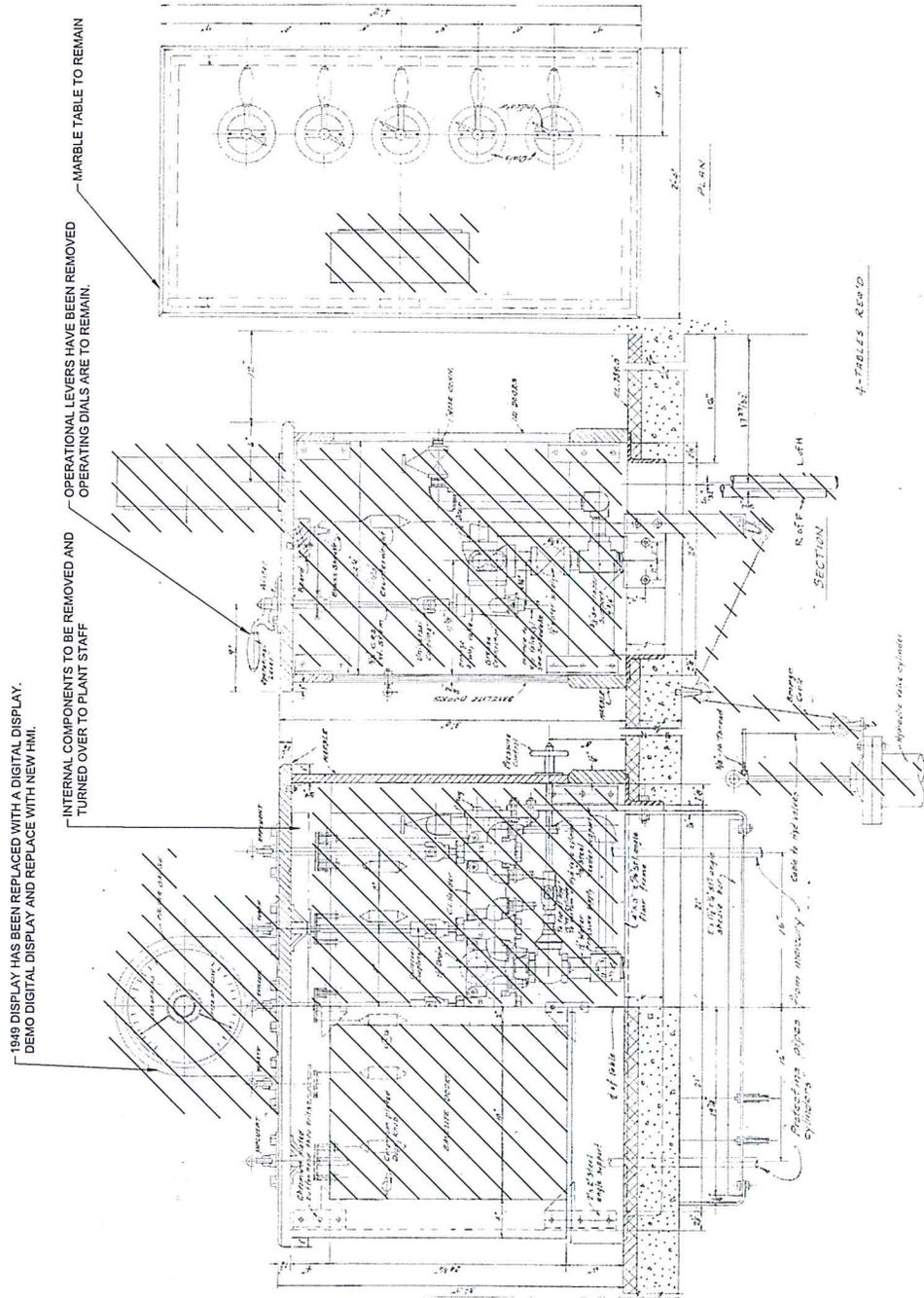
- NOTES:**
- BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1949 RECORD DRAWING BY ROBERTS FILTER MFG. CO. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
 - OPERATING CONSOLES SHALL BE REHABILITATED. REMOVE INTERNAL COMPONENTS, DIGITAL DISPLAY. PREPARE SURFACES FOR NEW HMI CONTROL PANEL (TYP 4). SEE SHEET 49-E10Z AND 95-E701.



FILTER OPERATING CONSOLE



EXISTING OPERATING CONSOLE
DIGITAL DISPLAY



1949 DISPLAY HAS BEEN REPLACED WITH A DIGITAL DISPLAY. DEMO DIGITAL DISPLAY AND REPLACE WITH NEW HMI.

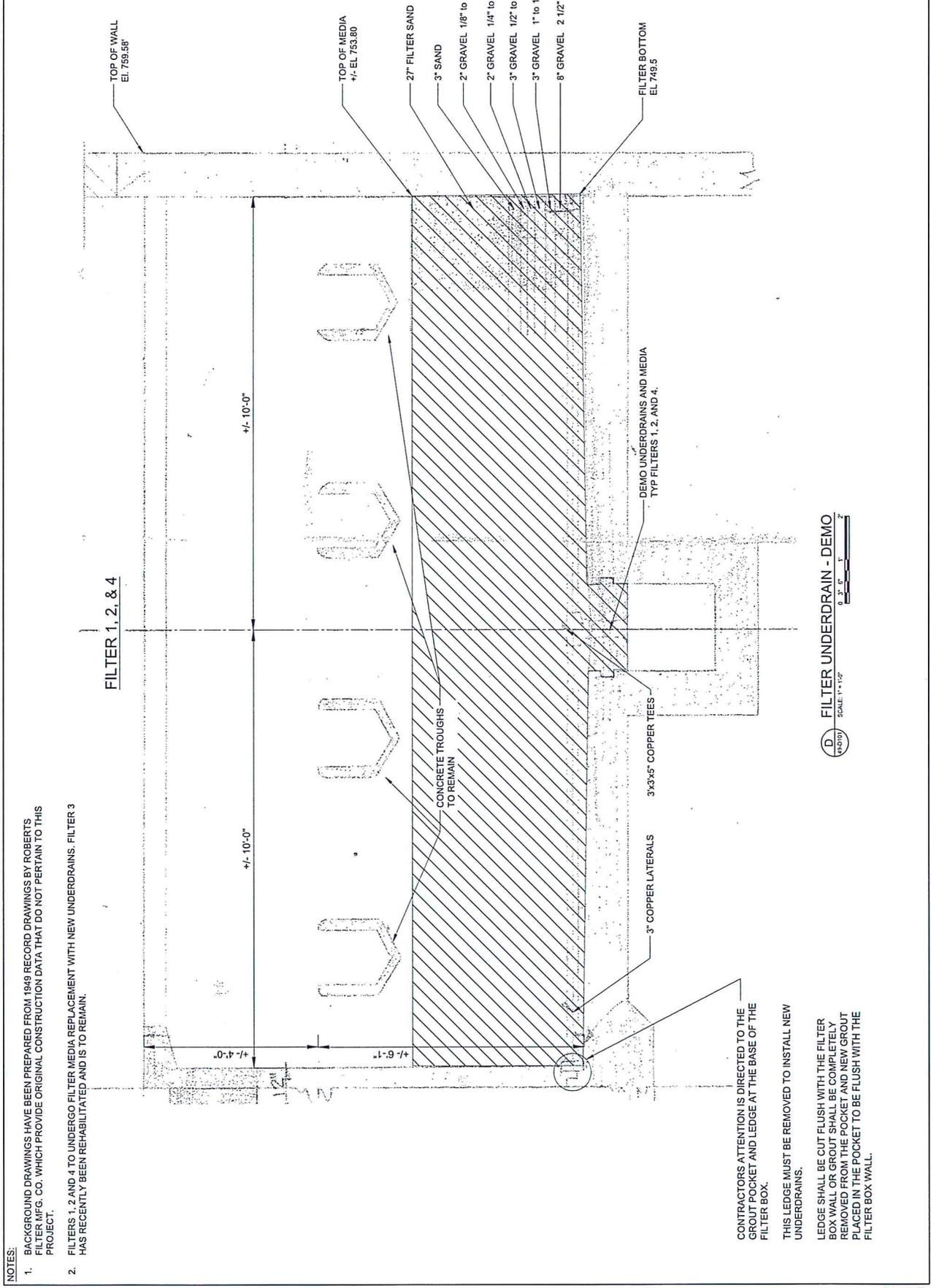
INTERNAL COMPONENTS TO BE REMOVED AND TURNED OVER TO PLANT STAFF

OPERATIONAL LEVERS HAVE BEEN REMOVED AND OPERATING DIALS ARE TO REMAIN.

MARBLE TABLE TO REMAIN

1 FILTER OPERATING CONSOLE - DEMO
SCALE: 2" = 1'-0"

NO.	DATE	DESCRIPTION
1	05/05/22	ISSUE FOR PERMIT REVIEW
2	05/05/22	ISSUE FOR PERMIT REVIEW
3	05/05/22	ISSUE FOR PERMIT REVIEW
4	05/05/22	ISSUE FOR PERMIT REVIEW
5	05/05/22	ISSUE FOR PERMIT REVIEW
6	05/05/22	ISSUE FOR PERMIT REVIEW
7	05/05/22	ISSUE FOR PERMIT REVIEW
8	05/05/22	ISSUE FOR PERMIT REVIEW
9	05/05/22	ISSUE FOR PERMIT REVIEW
10	05/05/22	ISSUE FOR PERMIT REVIEW

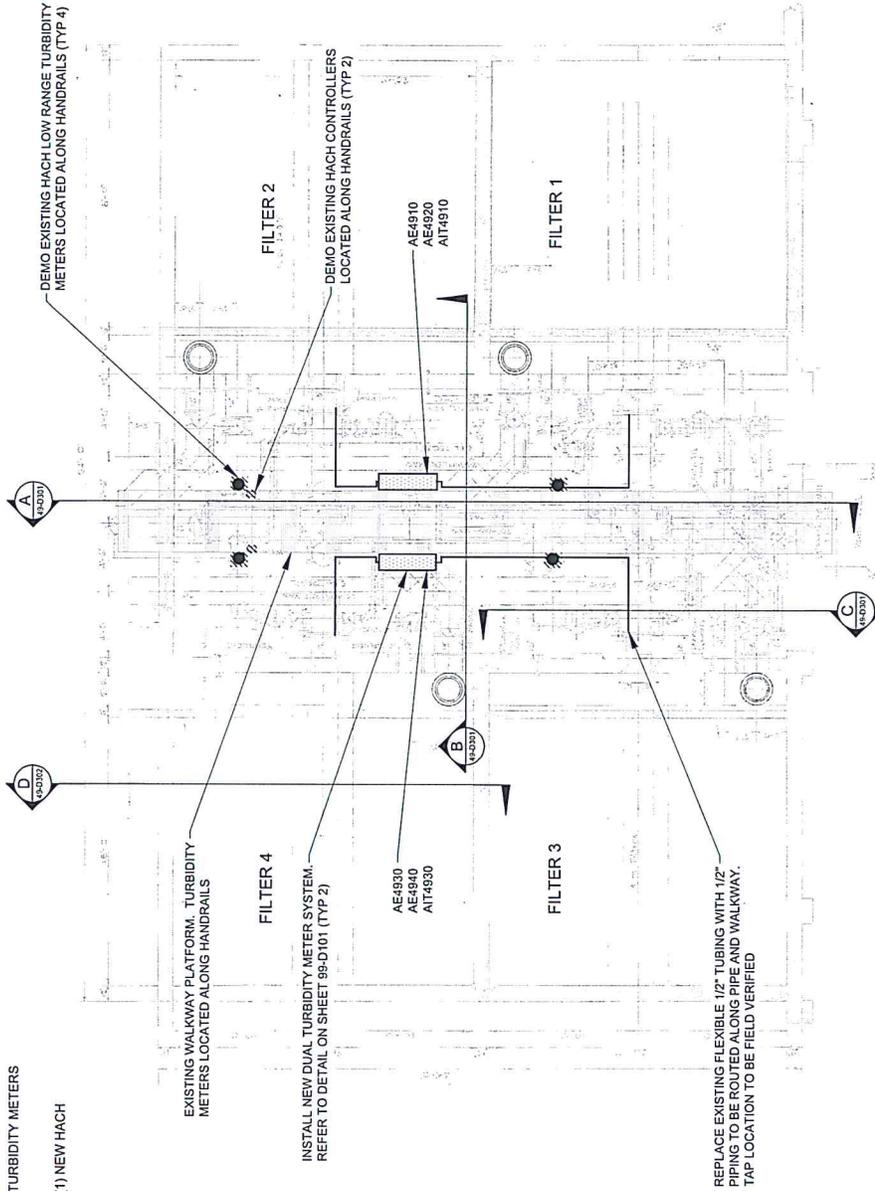


- NOTES:**
- BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1949 RECORD DRAWINGS BY ROBERTS FILTER MFG. CO. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
 - FILTERS 1, 2 AND 4 TO UNDERGO FILTER MEDIA REPLACEMENT WITH NEW UNDERDRAINS. FILTER 3 HAS RECENTLY BEEN REHABILITATED AND IS TO REMAIN.

CONTRACTORS ATTENTION IS DIRECTED TO THE GROUT POCKET AND LEDGE AT THE BASE OF THE FILTER BOX.
THIS LEDGE MUST BE REMOVED TO INSTALL NEW UNDERDRAINS.
LEDGE SHALL BE CUT FLUSH WITH THE FILTER BOX WALL OR GROUT SHALL BE COMPLETELY REMOVED FROM THE POCKET AND NEW GROUT PLACED IN THE POCKET TO BE FLUSH WITH THE FILTER BOX WALL.



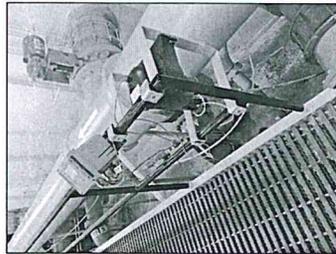
PERSON INFORMATION	
DATE	10/05/2022
TIME	10:55 AM
USER	1949-BUILDING
APP	PLANT
MA	SCHEMATIC
PROJ	1949-BUILDING
OWNER AND AGENT REVIEW	



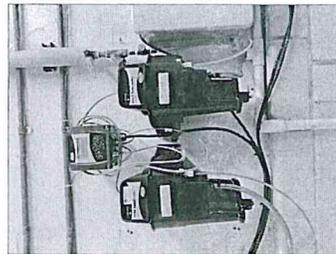
TURBIDITY SYSTEM REPLACEMENT - PLAN

NOTES:

- BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1949 RECORD DRAWINGS BY ROBERTS FILTER MFG. CO. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
- IN THE PIPE GALLERY REMOVE FOUR (4) EXISTING HACH TURBIDITY METERS MODEL 1720E, TWO (2) HACH CONTROLLERS MODEL SC200, AND ALL HARDWARE. INSTALL FOUR (4) NEW HACH TURBIDITY METERS MODEL TU5300SC AND TWO (2) NEW HACH CONTROLLERS MODEL SC4500 PROVIDED BY OWNER ON THE NEW TURBIDITY SYSTEM. SEE DETAIL ON SHEET 99-D101.
- IN THE HIGH SERVICE SAMPLING ROOM REMOVE THE HS-4/5 AND HS-6 HACH TURBIDITY METERS MODEL 1720E AND THE CORRESPONDING HACH CONTROLLER MODEL SC200.
- INSTALL TWO (2) NEW HACH TURBIDITY METERS MODEL TU5300SC AND ONE (1) NEW HACH CONTROLLER MODEL SC4500 PROVIDED BY OWNER.

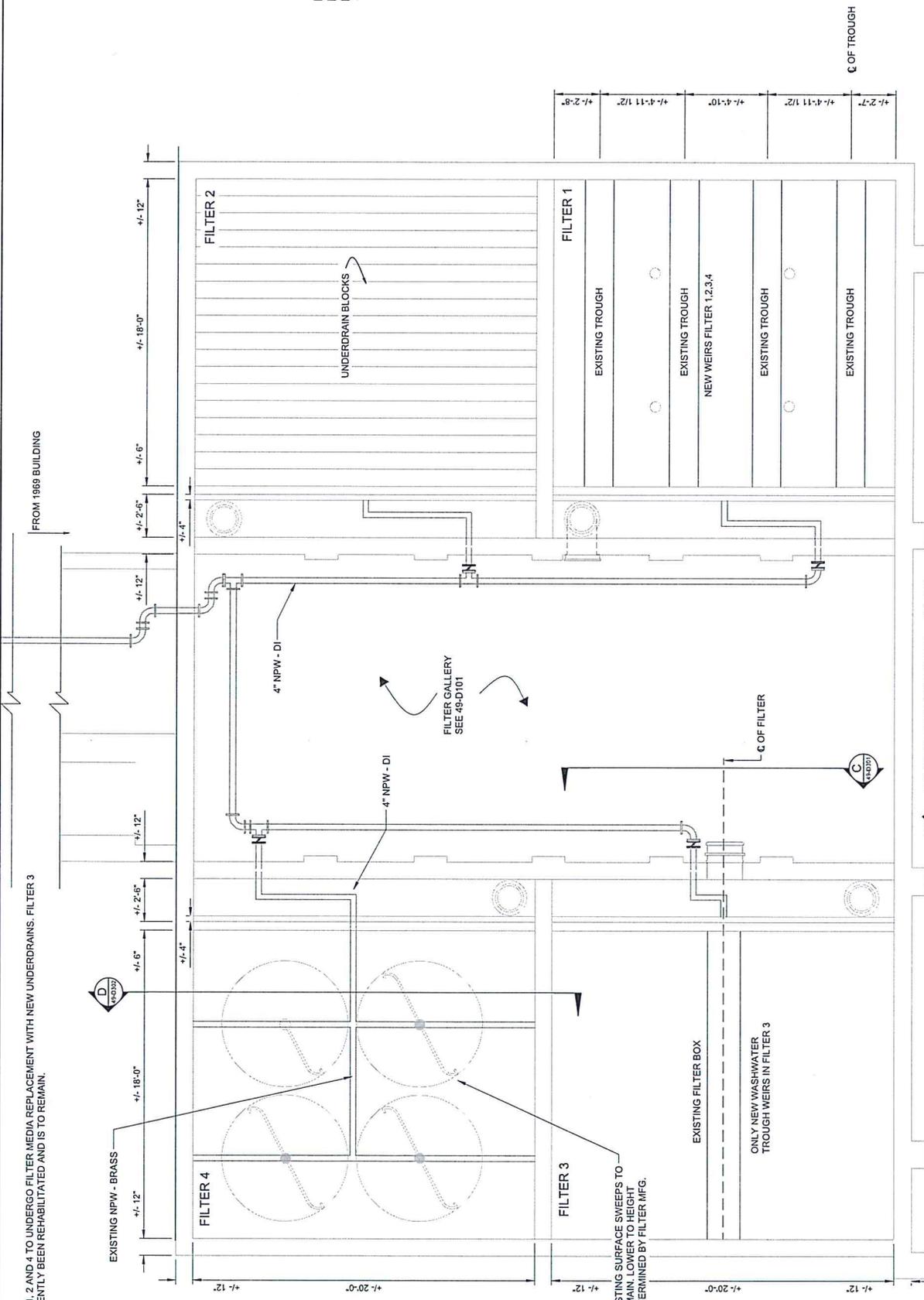


PIPE GALLERY - TURBIDITY METER & CONTROLLER



HIGH SERVICE SAMPLE ROOM - TURBIDITY METERS HS-4/5 AND HS-6 AND CONTROLLER

NO.	DATE	BY	CHKD.	DESCRIPTION
1	05/05/22	MA	MA	ISSUE FOR PERMIT
2	05/05/22	MA	MA	REVISIONS AND MODIFICATIONS



NOTES:
1. FILTERS 1, 2 AND 4 TO UNDERGO FILTER MEDIA REPLACEMENT WITH NEW UNDERDRAINS. FILTER 3 HAS RECENTLY BEEN REHABILITATED AND IS TO REMAIN.

EXISTING SURFACE SWEEPS TO REMAIN. LOWER TO HEIGHT DETERMINED BY FILTER MFG.

FILTER UNDERDRAIN - PLAN



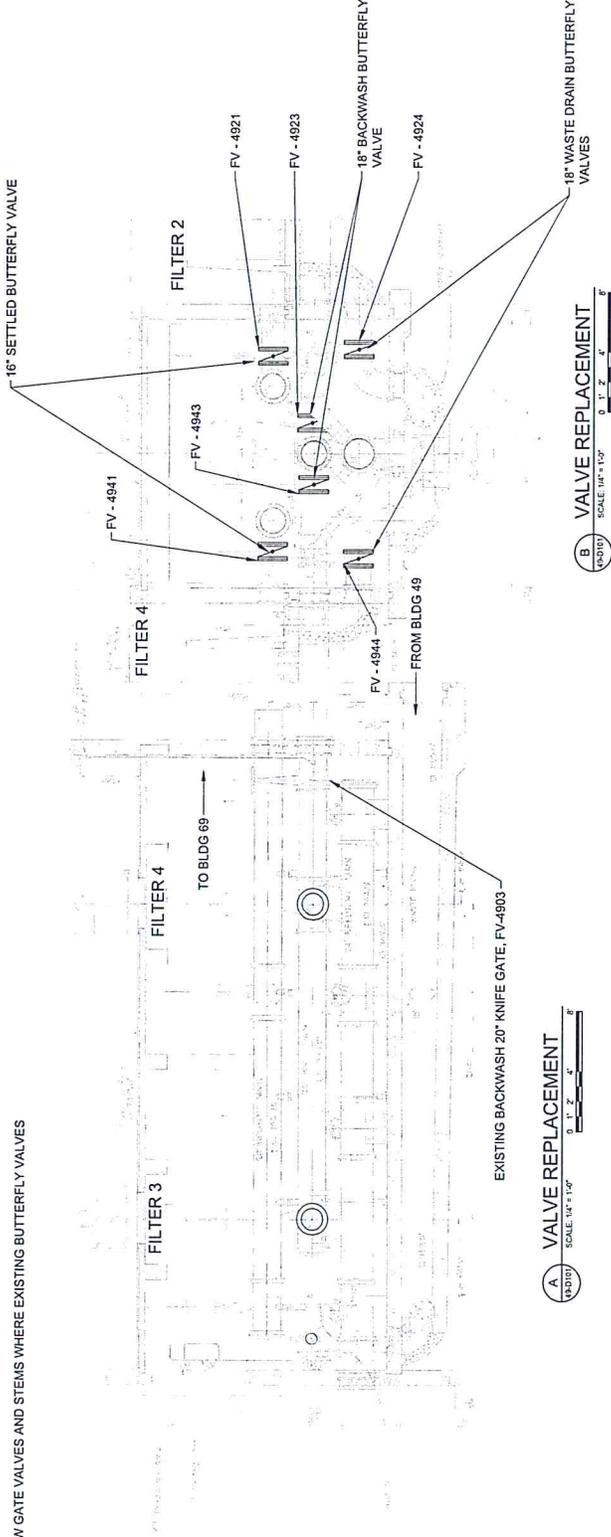
Michael P. Alexander
Date: 2022.05.05
16566-08-04100

1949 BUILDING - FILTERS & PIPE GALLERY
VALVE REPLACEMENT - SECTIONS
FILTER REHABILITATION
LAGRANGE, GEORGIA

NO.	DATE	DESCRIPTION
1	05/05/22	ISSUED FOR PERMIT
2		
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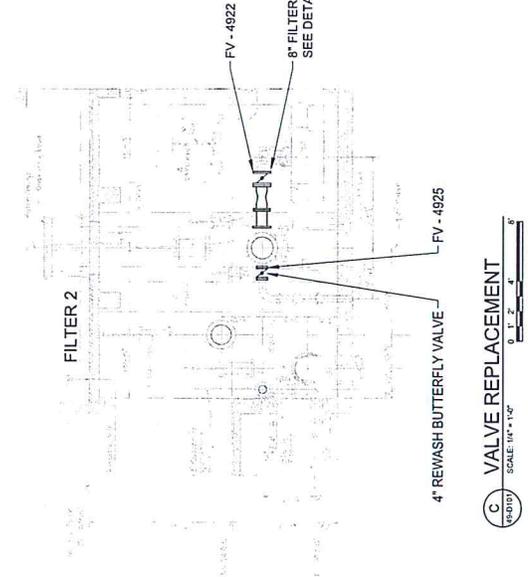
49-D301
FILE NO. 36432-11

- NOTES:
1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1949 RECORD DRAWINGS BY ROBERTS FILTER MFG. CO. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
 2. DRAWING DOES NOT INCLUDE SURFACE SWEEP PIPING AND VALVES. SEE SHEET 49-D104.
 3. 1949 RECORD DRAWINGS SHOW GATE VALVES AND STEMS WHERE EXISTING BUTTERFLY VALVES HAVE BEEN INSTALLED.



A VALVE REPLACEMENT
SCALE 1/4" = 1'-0"

B VALVE REPLACEMENT
SCALE 1/4" = 1'-0"



C VALVE REPLACEMENT
SCALE 1/4" = 1'-0"

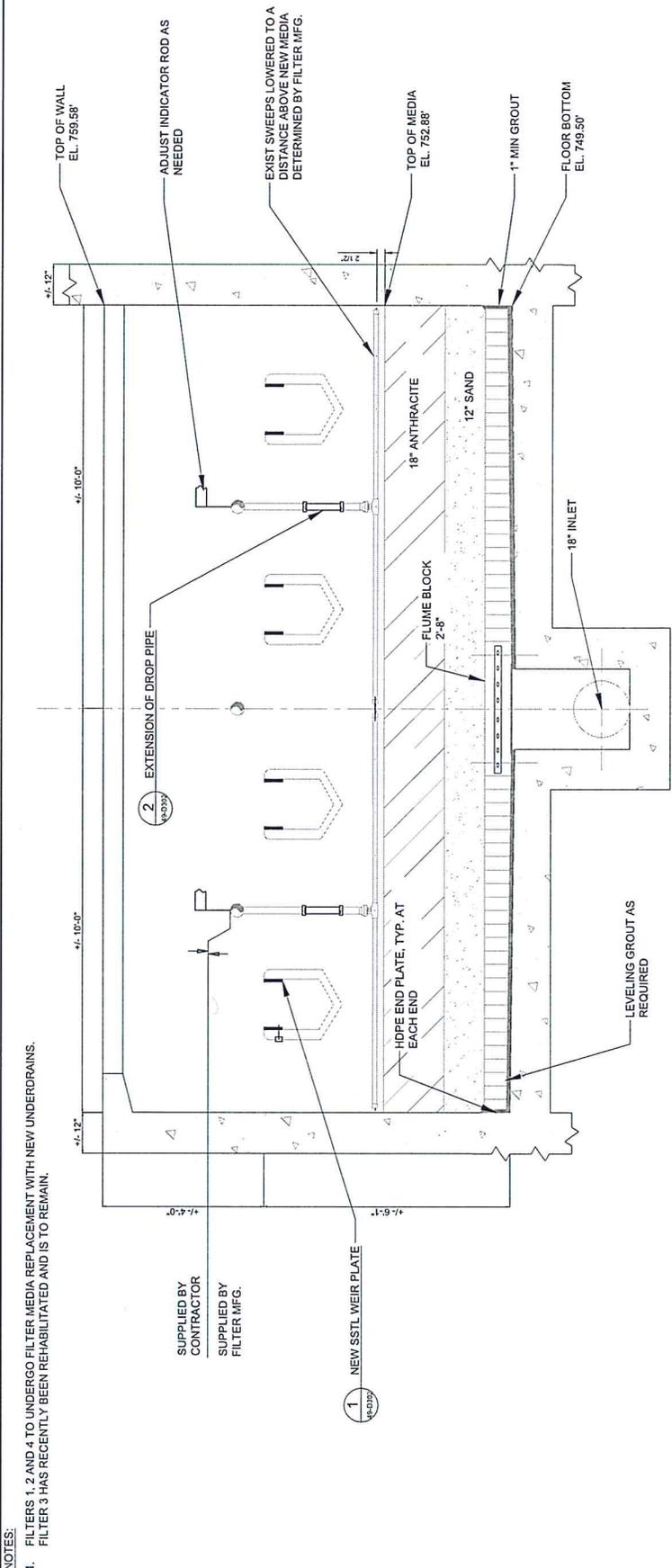


Michael A. Alexander
Date: 2022-05-05
16:56:19-0400

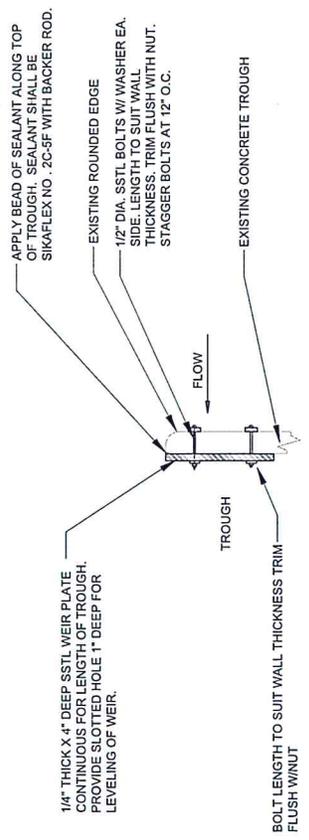
1949 BUILDING - FILTERS UNDERDRAIN
SYSTEM - SECTION
WALT WILLIAMS FILTRATION
LAGRANGE, GEORGIA

NO.	DATE	DESCRIPTION
1	05/05/22	ISSUE FOR PERMIT
2	05/05/22	OWNER AND ARCHITECT REVIEW
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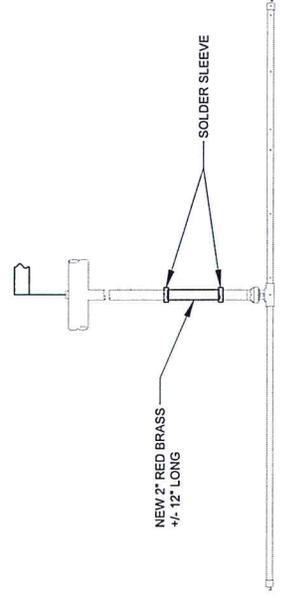
49-D302
FILE NO. 36432-11



D FILTER UNDERDRAIN SYSTEM - SECTION
SCALE 3/4\"/>



1 WEIR PLATE MOUNTING DETAIL
NTS



2 FILTER SWEEP - SECTION
NTS

NOTES:
1. FILTERS 1, 2 AND 4 TO UNDERGO FILTER MEDIA REPLACEMENT WITH NEW UNDERDRAINS. FILTER 3 HAS RECENTLY BEEN REHABILITATED AND IS TO REMAIN.

SUPPLIED BY CONTRACTOR
SUPPLIED BY FILTER MFG.

1 NEW SSSL WEIR PLATE

2 EXTENSION OF DROP PIPE

TOP OF WALL EL. 759.58'
ADJUST INDICATOR ROD AS NEEDED
EXIST SWEEPS LOWERED TO A DISTANCE ABOVE NEW MEDIA DETERMINED BY FILTER MFG.
TOP OF MEDIA EL. 732.88'
1\"/>

LEVELING GROUT AS REQUIRED

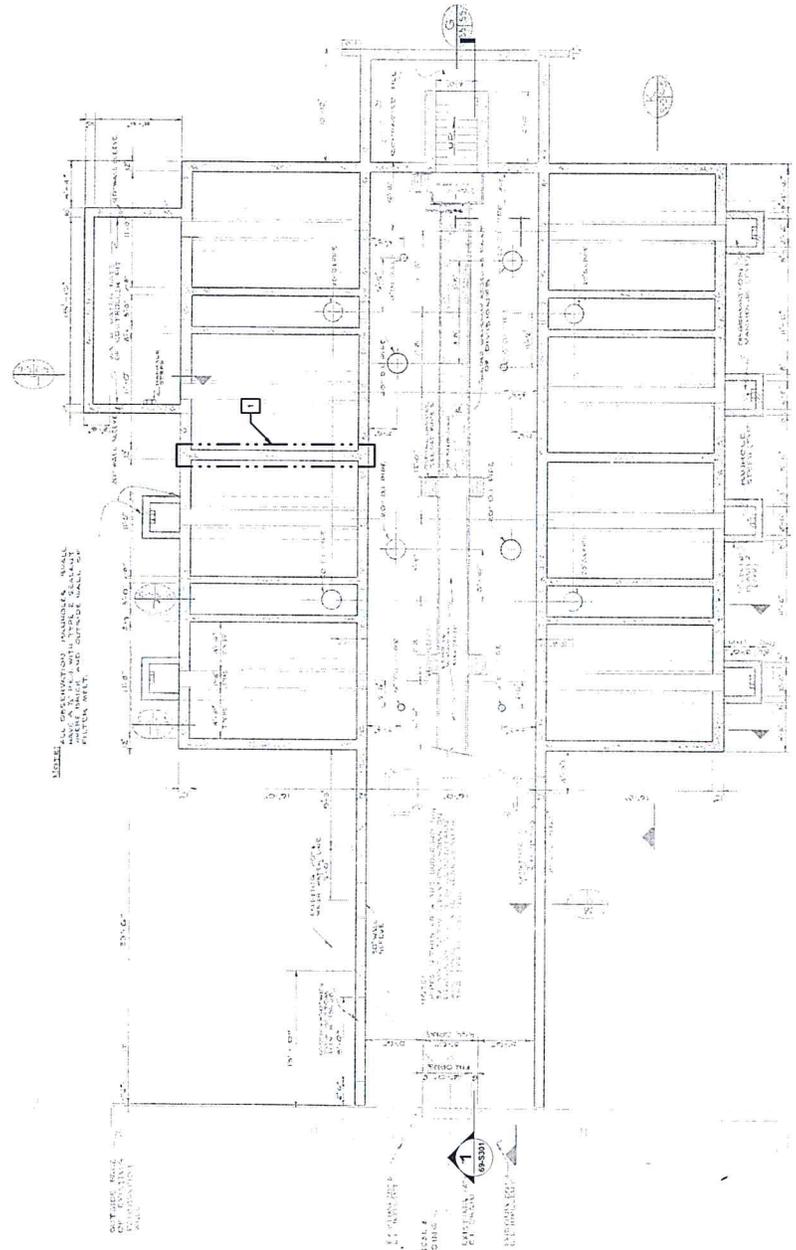
APPLY BEAD OF SEALANT ALONG TOP OF TROUGH. SEALANT SHALL BE SIKAFLEX NO. 2C-5F WITH BACKER ROD.
EXISTING ROUNDED EDGE
1/2\"/>

1/4\"/>

BOLT LENGTH TO SUIT WALL THICKNESS TRIM FLUSH WINUT

REV.	DATE	BY	CHKD.	DESCRIPTION
1	05/03/22	BHT	BHT	ISSUED FOR PERMITS
2	05/03/22	BHT	BHT	OWNER AND AGENCY REVIEW
3	05/03/22	BHT	BHT	PERMITS
4	05/03/22	BHT	BHT	ISSUED FOR PERMITS
5	05/03/22	BHT	BHT	ISSUED FOR PERMITS
6	05/03/22	BHT	BHT	ISSUED FOR PERMITS
7	05/03/22	BHT	BHT	ISSUED FOR PERMITS
8	05/03/22	BHT	BHT	ISSUED FOR PERMITS
9	05/03/22	BHT	BHT	ISSUED FOR PERMITS
10	05/03/22	BHT	BHT	ISSUED FOR PERMITS

1. PREPARE AND SELECT POLYURETHANE IN ALL WALL CRACKS, INCLUDING ALL CONSTRUCTION JOINTS AS DIRECTED BY SUBJECT UNIT PM/EL.



PLAN 1969-BUILDING OF FILTER WALKWAY
SCALE: 3/4" = 1'-0" FOR MANAGEMENT

1
1969-BUILDING OF FILTER WALKWAY
SCALE: 3/4" = 1'-0"



Digitally signed by Michael Alexander
Date: 2022.05.05
16:59:20-04'00'

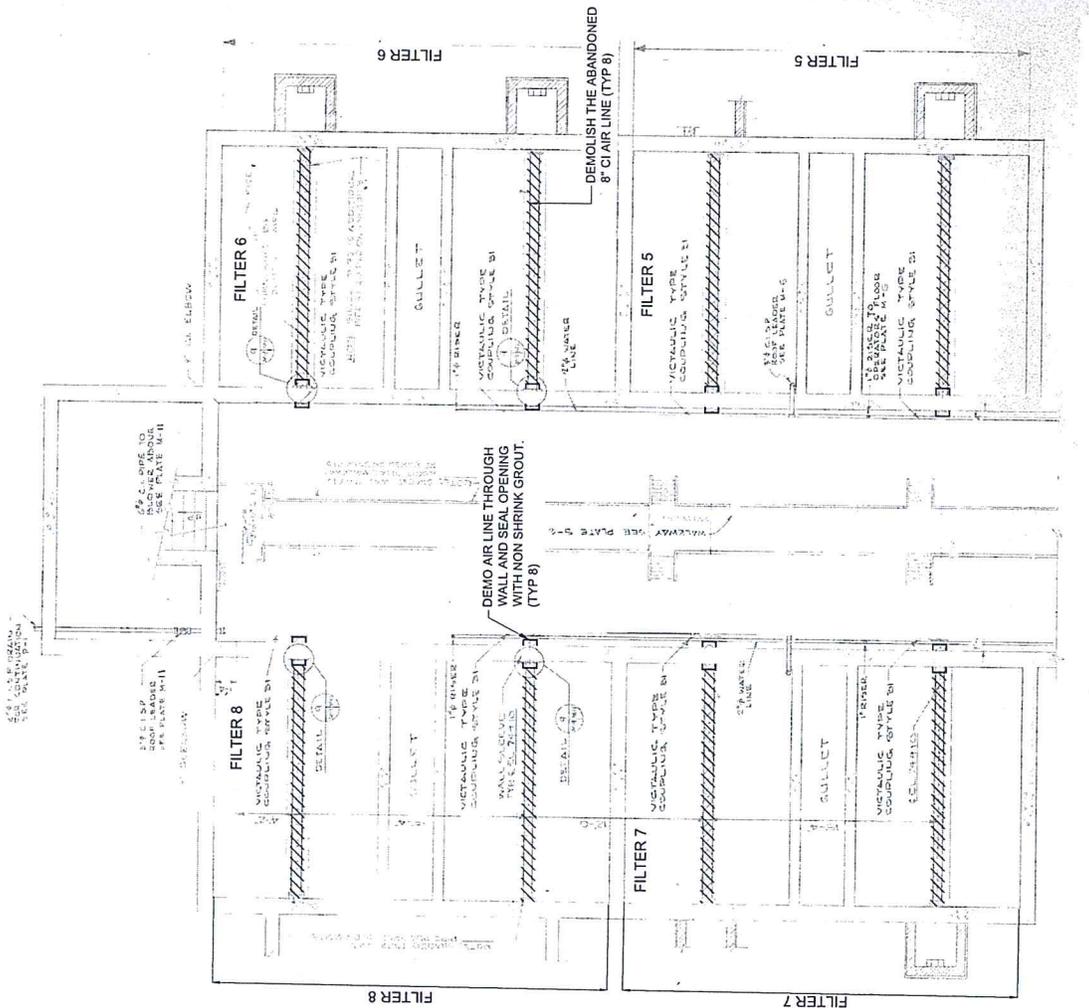
1969 BUILDING - AIR LINE PIPING - DEMO PLAN

WALT WILLIAMS FILTRATION PLANT
LAGANNE, GEORGIA

NO.	DATE	DESCRIPTION
1	05/05/22	ISSUE FOR PERMIT
2	05/05/22	ISSUE FOR CONSTRUCTION
3	05/05/22	ISSUE FOR RECORD

69-DD03
FILE NO. 36432-11

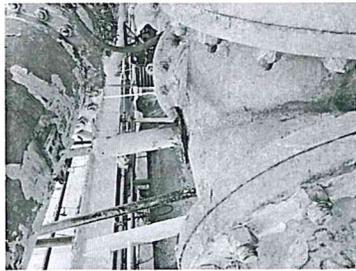
NOTES:
1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1969 RECORD DRAWINGS BY WELKER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.



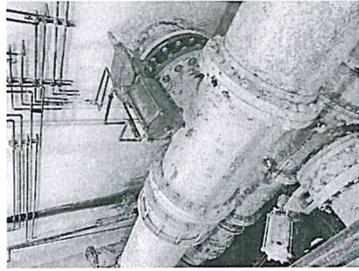
AIR LINE PIPING - DEMO PLAN
SCALE: 1/4" = 1'-0"

NOTES:

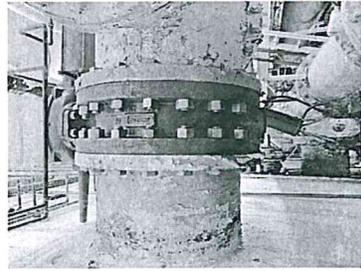
1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1989 RECORD DRAWINGS BY WELMER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
2. FIELD VERIFY MATERIAL TYPE, OUTSIDE DIAMETER (OD), AND DIMENSIONS.
3. PROVIDE TEMPORARY PIPE SUPPORTS DURING REHABILITATION.
4. REPLACE PIPE SUPPORTS AND ANCHOR BOLTS. EXISTING HANGERS ARE TO REMAIN.
5. PIPE GALLERY TO UNDERGO COATING REHABILITATION, INCLUDING CEILING, WALLS, AND EQUIPMENT.
6. SETTLED BUTTERFLY VALVES AND DRESSER COUPLINGS (4X) ARE TO BE REPLACED.
7. NEW GASKET AND BOLTS FOR ALL PIPING, VALVES, COUPLING, AND FLOW CONTROLLERS REPLACED OR TEMPORARILY REMOVED FOR THE PURPOSES OF CONSTRUCTION.



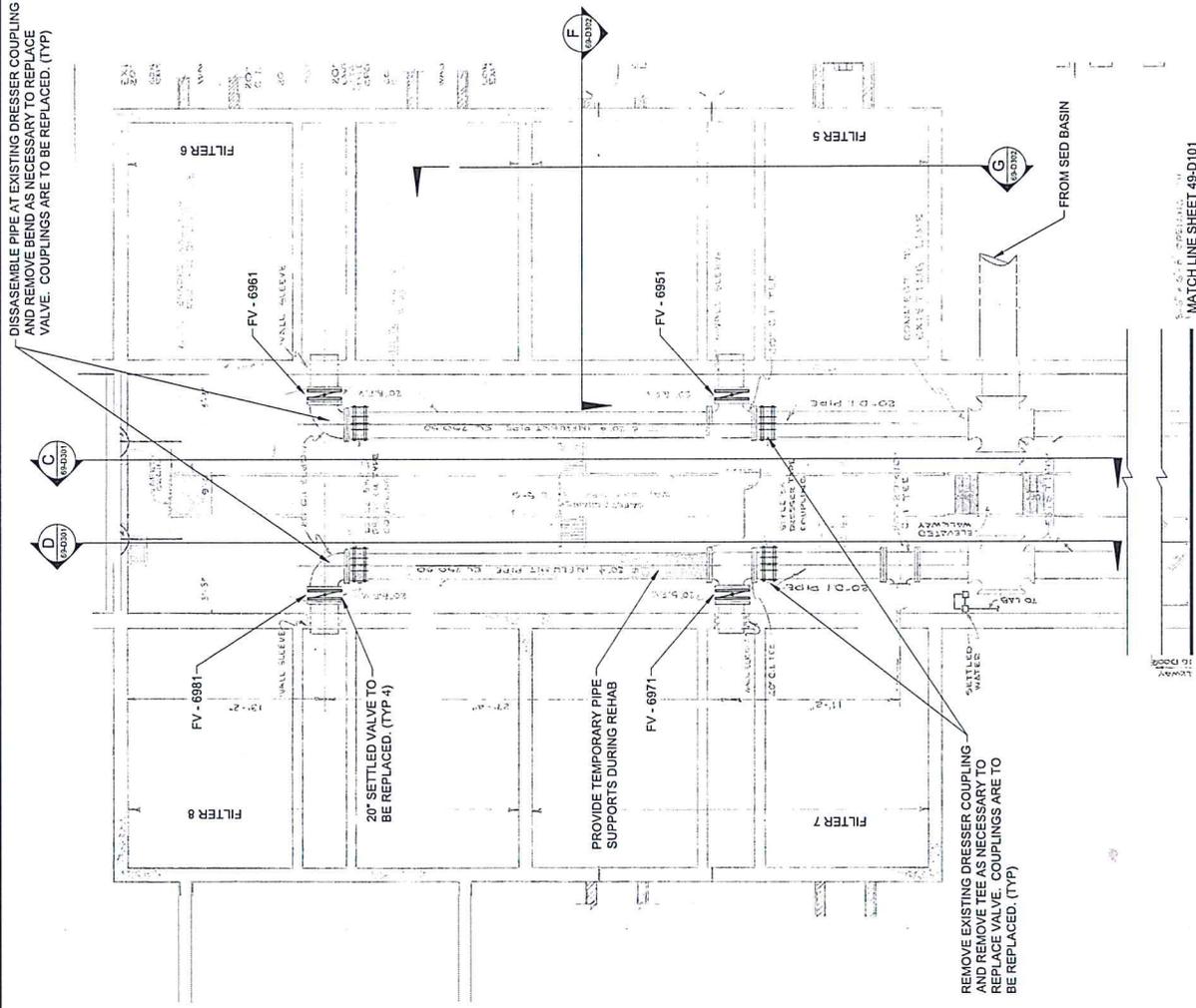
EXISTING PIPE SUPPORTS



20" SETTLED VALVE & COUPLING



20" SETTLED VALVE



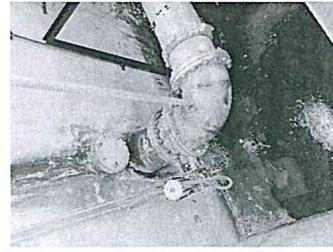
MATCH LINE SHEET 49-D101

SETTLED VALVE REPLACEMENT - PLAN

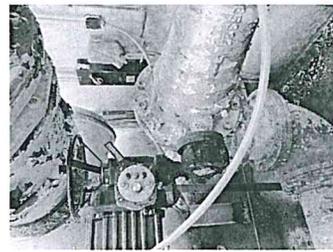
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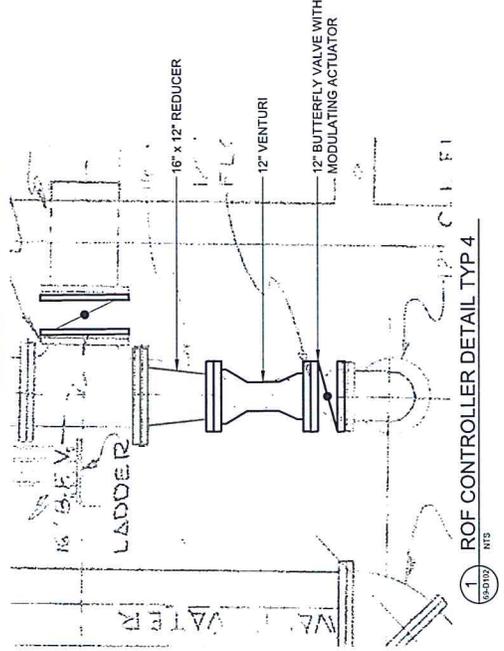
1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1969 RECORD DRAWINGS BY WELKER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
2. FIELD VERIFY MATERIAL TYPE, OUTSIDE DIAMETER (OD), AND DIMENSIONS.
3. PROVIDE TEMPORARY PIPE SUPPORTS DURING REHABILITATION.
4. REPLACE PIPE SUPPORTS AND ANCHOR BOLTS. EXISTING HANGERS ARE TO REMAIN.
5. PIPE GALLERY TO UNDERGO COATING REHABILITATION, INCLUDING CEILING, WALLS, AND EQUIPMENT
6. EXISTING FILTERED BIF MODEL 603 CONTROLLERS (4X) ARE TO BE REMOVED.
7. NEW FILTERED BUTTERFLY VALVES (4X) AND VENTURI (4X) ARE TO BE INSTALLED.
8. BACKWASH BUTTERFLY VALVES (12X) ARE TO BE REPLACED.
9. NEW GASKET AND BOLTS FOR ALL PIPING, VALVES, COUPLING, AND FLOW CONTROLLERS REPLACED OR TEMPORARILY REMOVED FOR THE PURPOSES OF CONSTRUCTION



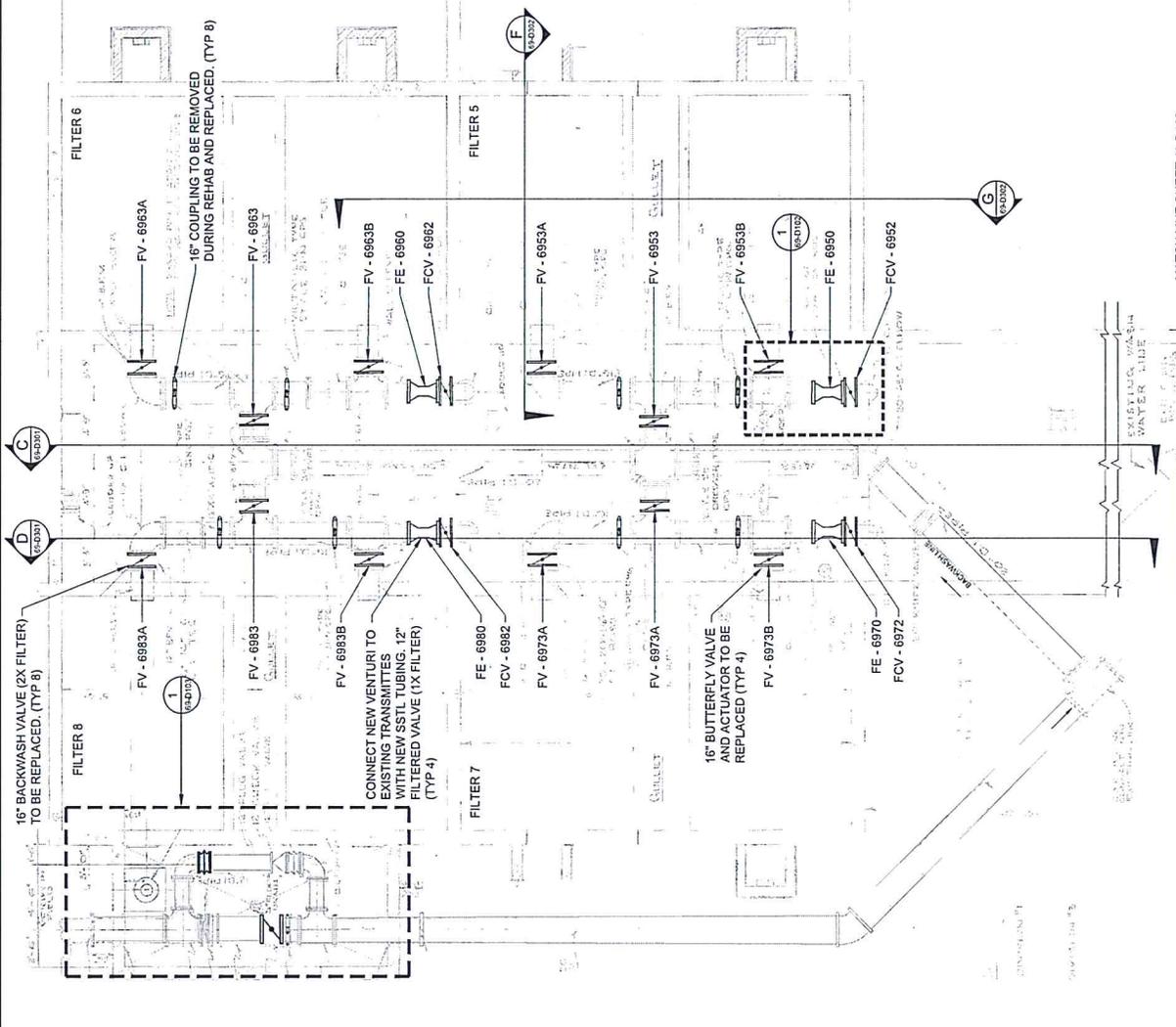
16" BACKWASH VALVE & COUPLING



12" EFFLUENT VALVE BUILT INTO BIF CONTROLLER



1 ROF CONTROLLER DETAIL TYP 4



1 FILTERED & BACKWASH VALVE REPLACEMENT - PLAN

BARGE
DESIGN SOLUTIONS
1201 Peachtree Industrial Blvd., Suite 200
Atlanta, Georgia 30329
Phone: (770) 371-4000

Digital
Signature
Michael C. Aepfer
Date: 2022.05.05
16:57:17-04'00"

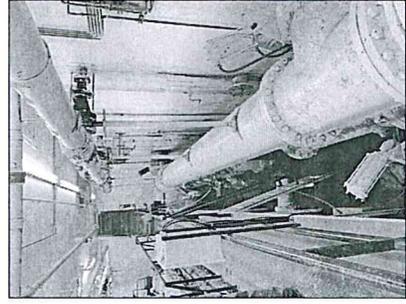
1969 BUILDING - FILTERED VALVE & BACKWASH
REPLACEMENT - PLAN
WALT WILLIAMS REHABILITATION
FILTER REHABILITATION
LARGAN, GEORGIA

NO.	DATE	BY	CHKD.	DESCRIPTION
1	05/05/22	MA	MA	ISSUED FOR CONSTRUCTION
2				
3				
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10				

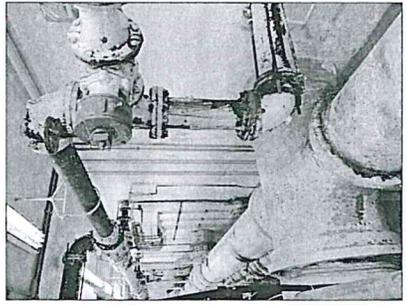
69-D102
FILE NO. 36432-11

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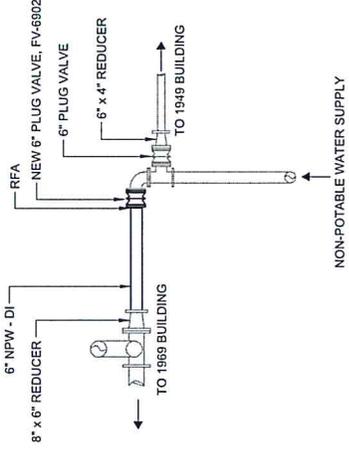
- BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1969 RECORDED DRAWINGS BY WELKER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
- FIELD VERIFY MATERIAL TYPE, OUTSIDE DIAMETER (OD), AND DIMENSIONS.
- PROVIDE TEMPORARY PIPE SUPPORTS DURING REHABILITATION.
- REPLACE PIPE SUPPORTS AND ANCHOR BOLTS. EXISTING HANGERS ARE TO REMAIN.
- PIPE GALLERY TO UNDERGO COATING REHABILITATION, INCLUDING CEILING, WALLS, AND EQUIPMENT.
- SURFACE SWEEP BUTTERFLY VALVES (TYP 8) AND COUPLINGS (TYP 14) ARE TO BE REPLACED.
- INSTALL A NEW 6" PLUG VALVE ON THE NON-POTABLE WATER SUPPLY LINE TO ISOLATE THE 1969 BUILDING SURFACE SWEEP PIPING SYSTEM.
- NEW GASKET AND BOLTS FOR ALL PIPING, VALVES, COUPLING, AND FLOW CONTROLLERS REPLACED OR TEMPORARILY REMOVED FOR THE PURPOSES OF CONSTRUCTION.
- REMOVE AND REPLACE ALL HYDROSTATIC SEALS (TYP 8).



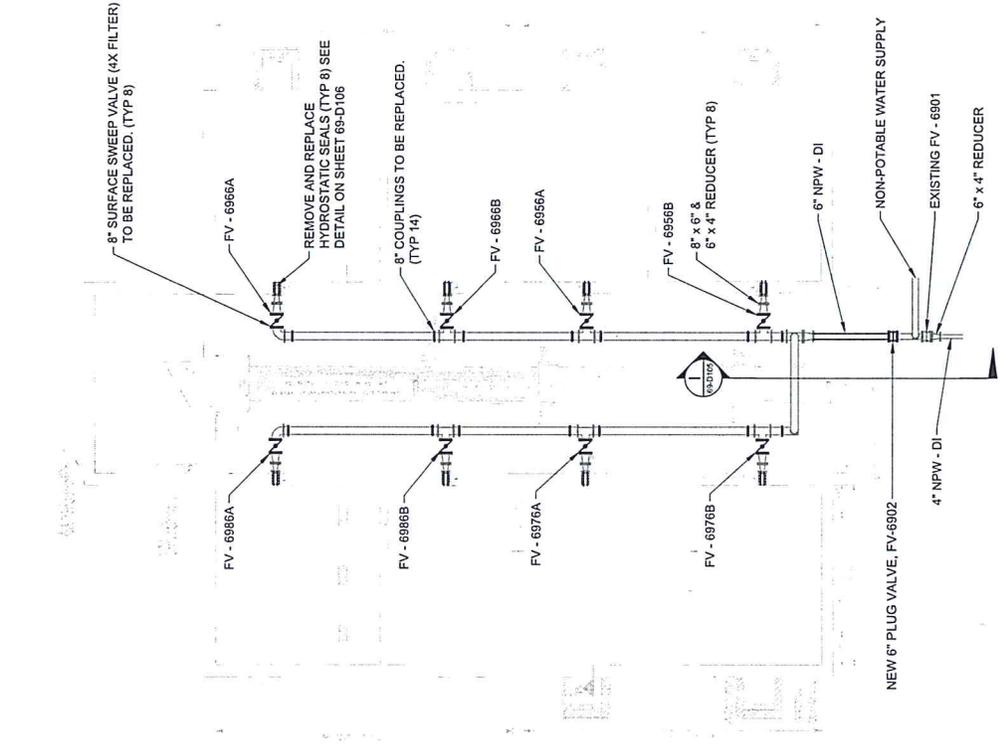
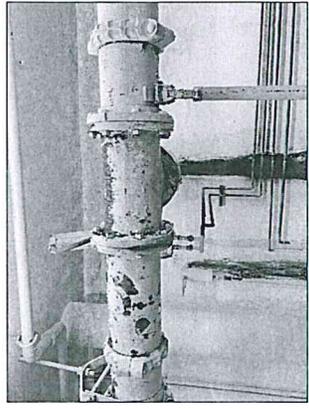
SURFACE SWEEP PIPING AND SUPPORTS



SWEEP WATER SOURCE



SURFACE SWEEP COUPLINGS



SURFACE SWEEP VALVE REPLACEMENT - PLAN

SECTION 1949105



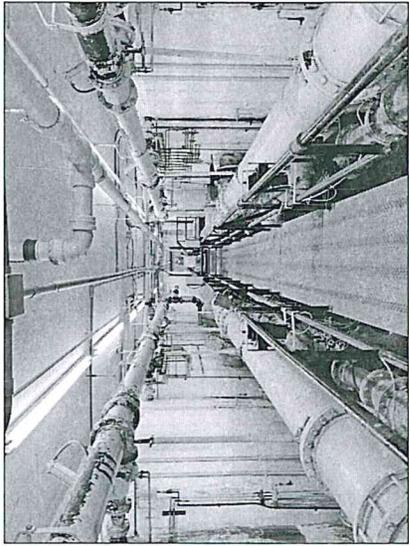
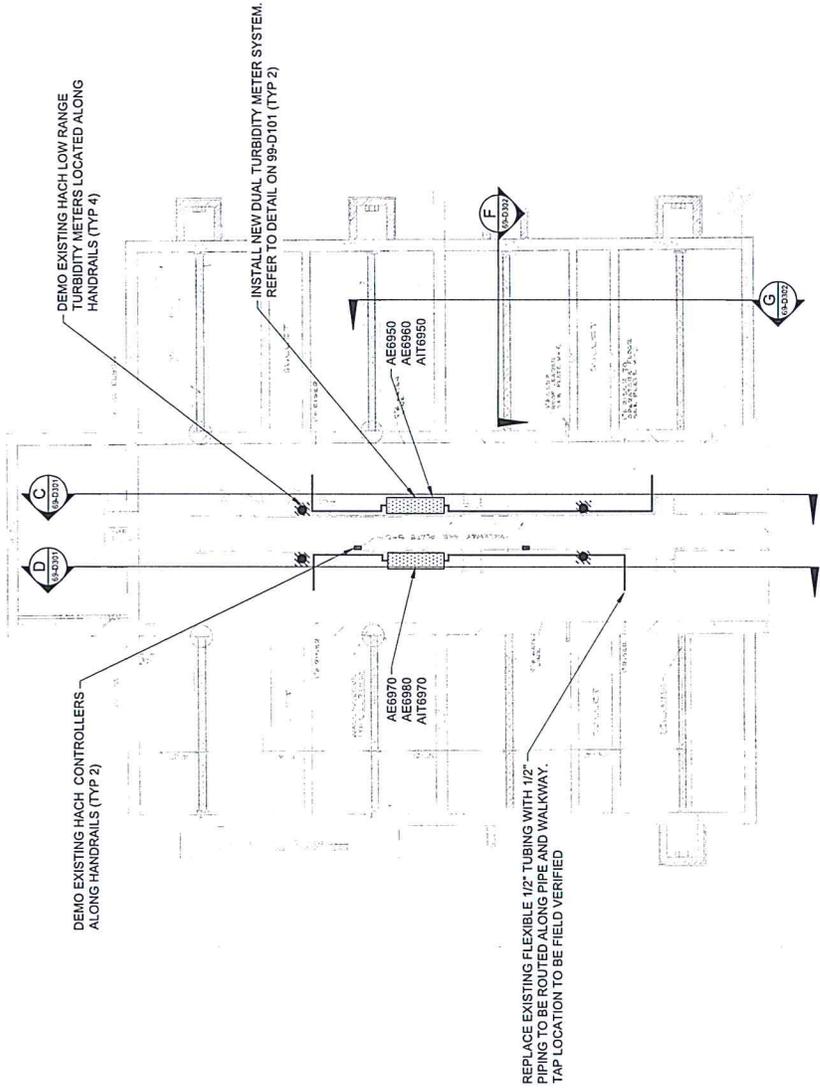
Michael Alexander
 Digital Signature
 Date: 2022-05-05
 15:57:45-04:00

1969 BUILDING - SURFACE SWEEP VALVE REPLACEMENT - PLAN
 WALT WILLIAMS FILTRATION
 LARANCE, GEORGIA

REV	DATE	BY	CHKD	DESCRIPTION
1	05/05/22	MA	MA	ISSUE FOR PERMITTING
2	05/05/22	MA	MA	REVISED FOR PERMITTING
3	05/05/22	MA	MA	REVISED FOR PERMITTING
4	05/05/22	MA	MA	REVISED FOR PERMITTING
5	05/05/22	MA	MA	REVISED FOR PERMITTING
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8	05/05/22	MA	MA	REVISED FOR PERMITTING
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10	05/05/22	MA	MA	REVISED FOR PERMITTING

NO.	DATE	DESCRIPTION
1	05/05/2022	ISSUED FOR PERMIT REVIEW
2	05/05/2022	ISSUED FOR PERMIT REVIEW
3	05/05/2022	ISSUED FOR PERMIT REVIEW
4	05/05/2022	ISSUED FOR PERMIT REVIEW
5	05/05/2022	ISSUED FOR PERMIT REVIEW
6	05/05/2022	ISSUED FOR PERMIT REVIEW
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8	05/05/2022	ISSUED FOR PERMIT REVIEW
9	05/05/2022	ISSUED FOR PERMIT REVIEW
10	05/05/2022	ISSUED FOR PERMIT REVIEW

- NOTES:**
1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1989 RECORD DRAWINGS BY WELKER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.
 2. IN THE PIPE GALLERY REMOVE FOUR (4) EXISTING HACH TURBIDITY METERS MODEL 1720E, TWO (2) HACH CONTROLLERS MODEL SC200, AND ALL HARDWARE. INSTALL FOUR (4) NEW HACH TURBIDITY METERS MODEL TU5030SC AND TWO (2) NEW HACH CONTROLLERS MODEL SC4500 PROVIDED BY OWNER ON THE NEW TURBIDITY SYSTEM. SEE DETAIL ON SHEET 199-D101.



TURBIDITY METER CONTROLLER

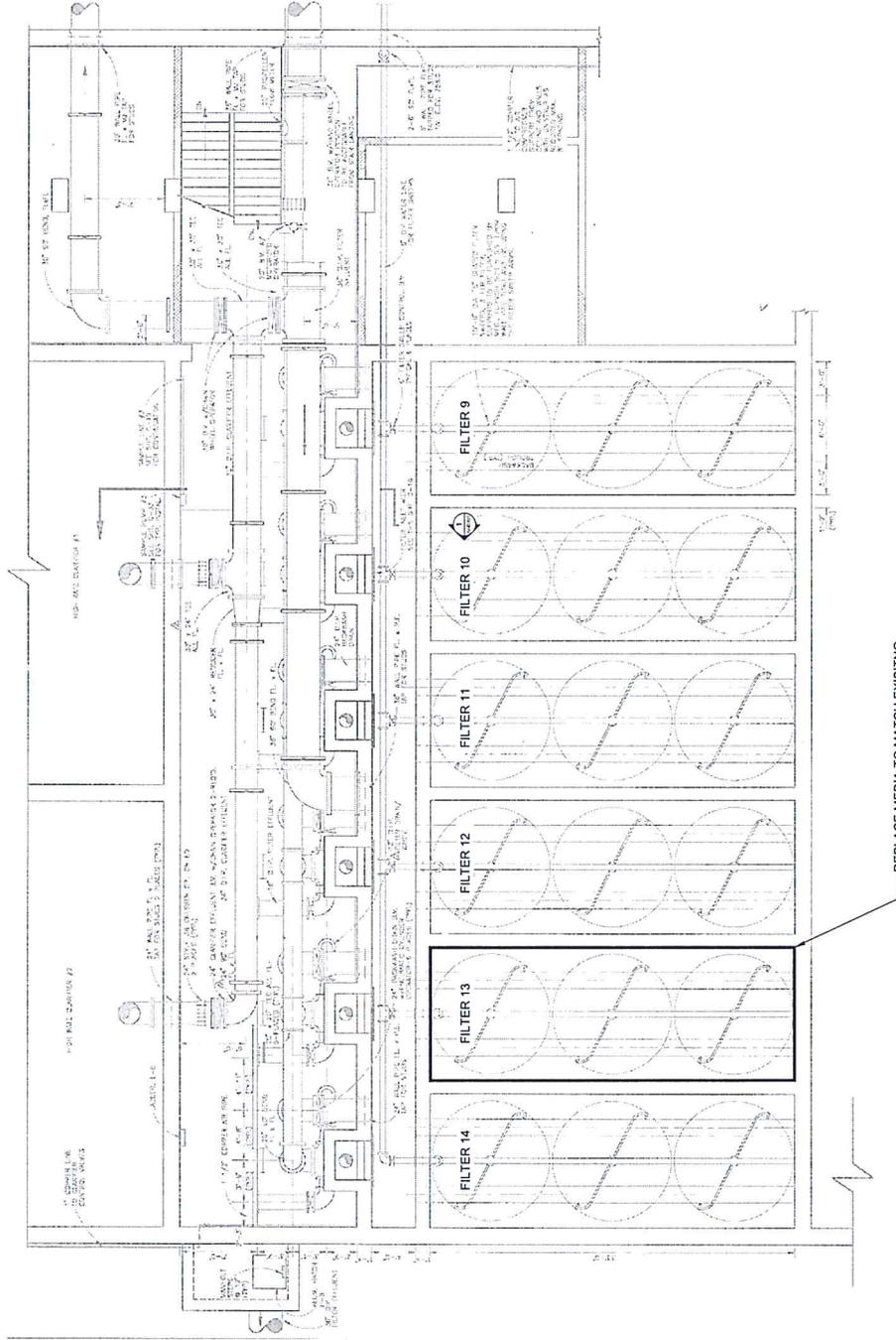
TURBIDITY SYSTEM REPLACEMENT - PLAN



REVISION INFORMATION	
NO.	DATE
1	05/05/22
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20	05/05/22

NOTES:

1. BACKGROUND DRAWINGS HAVE BEEN PREPARED FROM 1992 RECORD DRAWINGS BY WELKER AND ASSOCIATES, INC. WHICH PROVIDE ORIGINAL CONSTRUCTION DATA THAT DO NOT PERTAIN TO THIS PROJECT.



1 FILTER PIPE GALLERY PLAN
SCALE 3/8" = 1'-0"

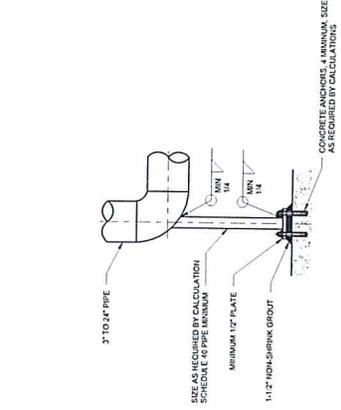


Digitally signed by
Michael Alexander
Date: 2022.05.05
17:00:37 -0400

STANDARD DETAILS
WALT WILLIAMS FILTRATION PLANT
LAGANNE, GEORGIA

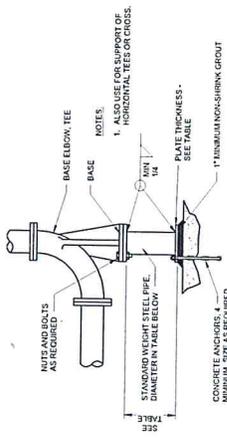
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08	05/05/22	ISSUE FOR PERMIT REVIEW
09	05/05/22	ISSUE FOR PERMIT REVIEW
10	05/05/22	ISSUE FOR PERMIT REVIEW

99-D103
FILE NO. 38432-11



- NOTES:
1. MINIMUM COMPONENT AND CONNECTION SIZES SHOWN. FINISH LARGER SIZES IF REQUIRED BY CALCULATIONS.
 2. ANCHORAGE AS SPECIFIED.

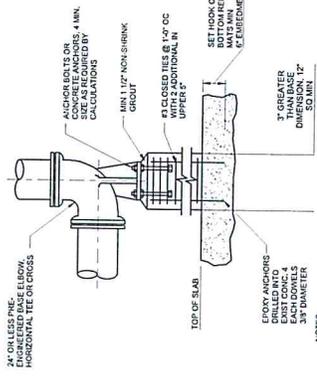
3 PIPE SUPPORT
NTS



DIMENSION TABLE

PIPE SIZE	SUPPORT DIAMETER	PLATE DIAMETER	PLATE THICKNESS	ANCHOR BOLT DIAMETER
3"	1-1/2"	5"	3/8"	3/8"
4"	2"	6"	3/8"	3/8"
6"	3"	7"	3/8"	3/8"
8" AND 10"	4"	9"	1/2"	1/2"
12" THRU 16"	6"	11"	1/2"	1/2"
18" THRU 24"	8"	13-1/2"	5/8"	5/8"
30"	10"	16"	5/8"	5/8"
36"	12"	19"	5/8"	5/8"
42"	15"	23-1/2"	3/4"	3/4"
48"	18"	25"	3/4"	3/4"
54"	22"	30"	3/4"	3/4"
60"	24"	32"	3/4"	3/4" (USE 6)

2 BASE BEND 2
NTS

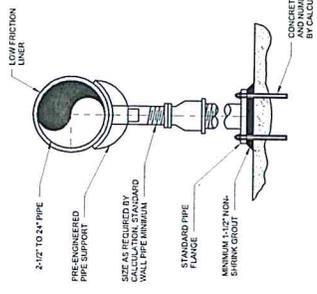


- NOTES:
1. SUBMIT FINAL DESIGN DRAWINGS AND CALCULATIONS OF SUPPORTS LARGER SIZES AS REQUIRED BY CALCULATIONS.
 2. MINIMUM COMPONENT AND CONNECTION SIZES SHOWN. FINISH LARGER SIZES AS REQUIRED BY CALCULATIONS.

1 BASE BEND 1
NTS

DIMENSION TABLE

PIPE SIZE	MINIMUM HORIZONTAL PIPE SIZE
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
16"	3"
18"	3"
20"	4"
24"	4"

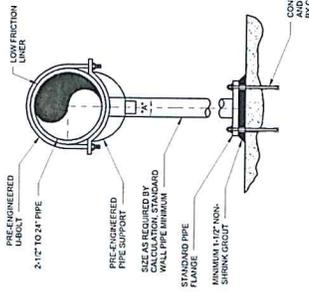


- NOTES:
1. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.
 2. FOR SUPPORTS NOT LOCATED ON SLAB, PROVIDE 6" X 6" SQUARE FOOTING, WHERE 6" IS PIPE DIAMETER, 11" IS 48" T.E.W., MINIMUM FOOTING DIMENSIONS: 12" X 12" X 6".

5 SADDLE SUPPORT PEDESTAL TYPE - ADJUSTABLE
NTS

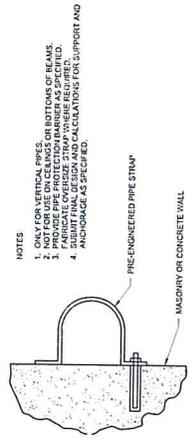
DIMENSION TABLE

PIPE SIZE	MINIMUM HORIZONTAL PIPE SIZE
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
16"	3"
18"	3"
20"	4"
24"	4"



- NOTES:
1. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.
 2. FOR SUPPORTS NOT LOCATED ON SLAB, PROVIDE 6" X 6" SQUARE FOOTING, WHERE 6" IS PIPE DIAMETER, 11" IS 48" T.E.W., MINIMUM FOOTING DIMENSIONS: 12" X 12" X 6".

4 SADDLE SUPPORT PEDESTAL TYPE - NON-ADJUSTABLE
NTS



- NOTES:
1. ONLY FOR VERTICAL PIPES.
 2. NOT FOR USE ON ICE LAYS OR BOTTOMS OF BELMS.
 3. MINIMUM COMPONENT AND CONNECTION SIZES SHOWN. FINISH LARGER SIZES IF REQUIRED BY CALCULATIONS.
 4. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

6 PIPE SUPPORT - WALL MOUNT
NTS