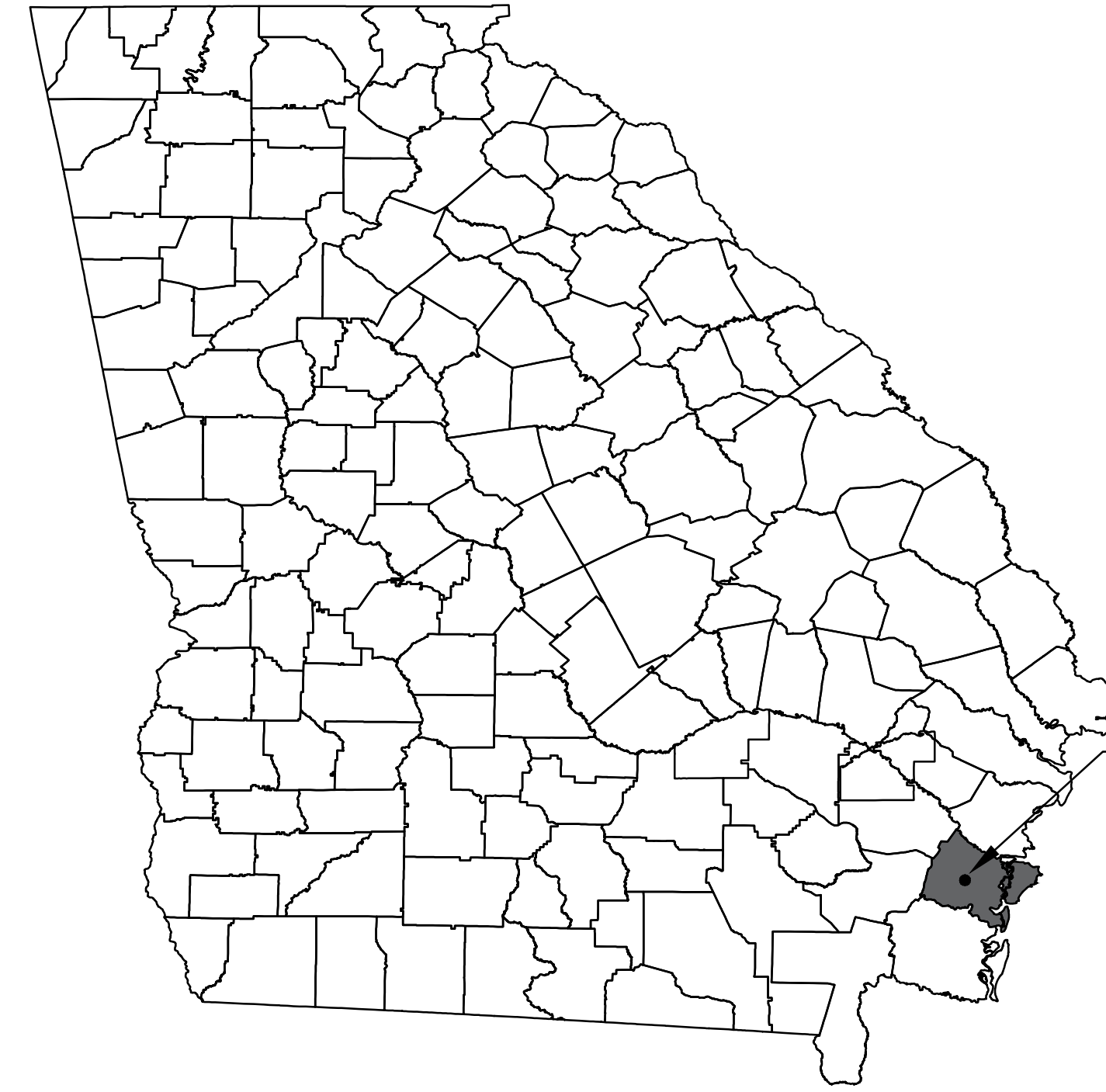




VICINITY MAP
NOT TO SCALE



LOCATION MAP
STATE OF GEORGIA

BRUNSWICK, GEORGIA
GLYNN COUNTY

2019 WPCF REHABILITATION ACADEMY CREEK 100% DESIGN SUBMITTAL

BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION

CSAV190007

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 STRUCTURAL ENGINEERING
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2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

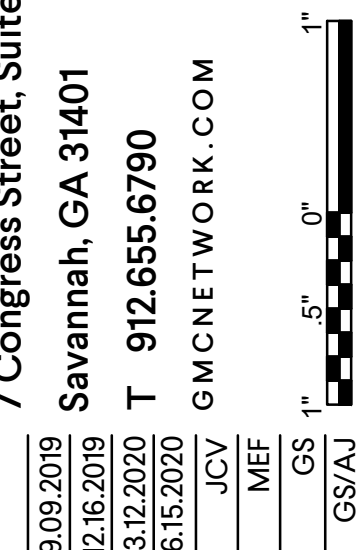
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PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



TITLE SHEET

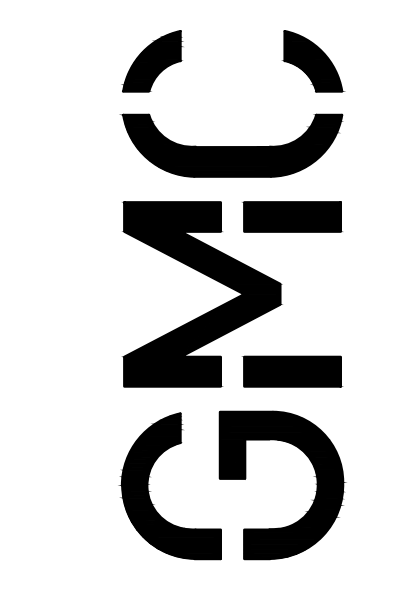
G-001



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PLOTTED: Jun 16, 2020 - 4:58pm

INDEX TO DRAWINGS					
SHT SEQ.	DESCRIPTION	SHT SEQ.	DESCRIPTION	SHT SEQ.	DESCRIPTION
GENERAL					
G-001	TITLE SHEET	S-503	FILTER CANOPY ROOF FRAMING PLAN	D-403	CLARIFIER PLAN BOX D
G-002	DRAWING INDEX	S-504	FILTER - SECTIONS	D-410	CLARIFIER PLAN
G-003	PROCESS FLOW DIAGRAM	S-505	FILTER - SECTIONS	D-411	CLARIFIER SECTIONS
G-004	HYDRAULIC PROFILE	S-601	CHLORINE CONTACT TANK MODIFICATIONS	D-501	FILTER - LOWER PLAN
G-005	GENERAL ABBREVIATIONS & LEGENDS	S-711	SLUDGE OFFLOADING AREA PLANS	D-502	FILTER - UPPER PLAN
G-006	PROCESS PIPING SCHEDULE	S-712	SLUDGE OFFLOADING SECTIONS	D-503	FILTER - SECTIONS
		S-801	ODOR TREATMENT SYSTEM PLAN & DETAILS	D-504	FILTER - SECTIONS
		S-911	STRUCTURAL STANDARD DETAILS	D-505	FILTER - SECTIONS
INSTRUMENTATION		ARCHITECTURAL			
I-001	P&ID - LEGEND	A0.01	GENERAL NOTES	D-601	CHLORINE CONTACT TANK MODIFICATIONS
I-002	SITE PLAN - FIBER OPTIC NETWORK	A0.02	ACCESSIBILITY INFORMATION	D-702	MODIFICATIONS TO HEADHOUSE NO. 1
I-003	P&ID - BLOCK DIAGRAM	A0.03	PARTITION TYPES - INTERIOR	D-710	SOLIDS PROCESSING AREA KEY PLAN
I-101	P&ID - SCREENING	A0.04	FIRESTOPPING-THRU-PENETRATION SYSTEMS	D-711	SLUDGE OFFLOADING AREA
I-102	P&ID - GRIT REMOVAL	A0.05	FIRESTOPPING-THRU-PENETRATION SYSTEMS	D-712	SLUDGE OFFLOADING AREA - SECTIONS
I-103	P&ID - INFLUENT PUMP STATION	A0.06	LIFE SAFETY - CODE STUDY	D-713	SLUDGE OFFLOADING AREA - SECTIONS
I-201	P&ID - PRE-AERATION & FLOW SPLIT	A0.07	LIFE SAFETY PLAN FIRST FLOOR	D-714	POLYMER SYSTEM AND SLUDGE FEED PIPING
I-301	P&ID - AERATION BASINS 1,2,&3	A0.08	LIFE SAFETY PLAN SECOND FLOOR	D-801	ODOR TREATMENT SYSTEM PLAN & DETAILS
I-401	P&ID - CLARIFIERS 1&2 - RAS	A1.00A	GROUND FLOOR DEMOLITION PLAN	D-901	PIPE PENETRATIONNS DETAIL
I-402	P&ID - CLARIFIERS 3&4 - RAS	A1.00B	SECOND FLOOR DEMOLITION PLAN	D-902	PROCESS PIPE SUPPORT DETAILS
I-403	P&ID - CLARIFIERS 5&6 - RAS	A1.01	GROUND FLOOR PLAN	D-903	PROCESS PIPE SUPPORT DETAILS
I-501	P&ID - TERTIARY FILTERS	A1.02	SECOND FLOOR PLAN	D-904	PROCESS PIPE STRUCTURAL ATTACHMENTS
I-601	P&ID - CHLORINE CONTACT CHAMBERS	A2.01	GROUND FLOOR REFLECTED CEILING PLAN	D-905	GATE SCHEDULE & DETAILS
I-701	P&ID - SLUDGE PUMPING	A2.02	SECOND FLOOR REFLECTED CEILING PLAN	D-906	PROCESS DETAILS
I-702	P&ID - BELT FILTER PRESSES	A3.01	ROOF PLAN	D-910	VALVE SCHEDULE - 1
I-703	P&ID - SLUDGE UNLOADING	A4.01	EXTERIOR ELEVATIONS	ELECTRICAL	
I-801	P&ID - CHEMICAL FEED SYSTEM	A4.02	EXTERIOR ELEVATIONS	E-001	LEGEND SHEET
I-802	P&ID - BFP POLYMER FEED	A5.01	BUILDING SECTIONS	E-002	DETAIL SHEETS
I-901	P&ID - INSTRUMENT DETAILS	A5.02	BUILDING SECTION	E-003	LIGHTING FIXTURE SCHEDULE
I-902	P&ID - INSTRUMENT SCHEDULE	A5.31	VERTICAL CIRCULATION	E-100	OVERALL SITE PLAN
CIVIL		A5.32	VERTICAL CIRCULATION	E-200	HEADWORKS PARTIAL SITE PLAN - ELECTRICAL
C-101	PROCESS PIPING SITE PLAN - KEY	A5.41	RAILING SCHEDULE & DETAILS	E-201	SCREEN UPPER & LOWER LEVEL PLANS - ELECTRICAL
C-121	PROCESS PIPING SITE PLAN - AREA 1	A6.01	DOOR SCHEDULE, LEGEND, & DETAILS	E-202	ODOR CONTROL SYSTEM - ELECTRICAL
C-122	PROCESS PIPING SITE PLAN - AREA 2	A6.02	WINDOW & DOOR DETAILS	E-203	MAIN FLOW SPLITTER BOX - ELECTRICAL
C-123	PROCESS PIPING SITE PLAN - AREA 3	A6.02	INTERIOR DETAILS	E-204	HEADWORKS CONTROL & SCADA RISER
C-124	PROCESS PIPING SITE PLAN - AREA 4	A6.03	INTERIOR DETAILS	E-205	RAW SEWAGE PUMP STATION ONE - LINE DIAGRAM
C-125	ENLARGED PLAN INFLUENT SEWER MODIFICATIONS	A7.01	INTERIOR ELEVATIONS	E-300	DAF BUILDING PARTIAL SITE PLAN ELECTRICAL
C-126	CIVIL SITE PLAN AND PROFILE	A7.11	MILLWORK DETAILS	E-301	DAF BUILDING - LOWER LEVEL LIGHTING PLAN
C-127	CIVIL SITE PLAN AND PROFILE	A8.01	FINNISH LEGEND AND SCHEDULE	E-302	DAF BUILDING - UPPER LEVEL LIGHTING PLAN
C-501	STORM WATER POLLUTION PREVENTION PLAN NOTES & ACTIVITY SCHEDULE	A8.02	GROUND FLOOR FINNISH PLAN	E-303	DAF BUILDING - LOWER LEVEL POWER PLAN
C-502	STORM WATER POLLUTION PREVENTION PLAN CHECKLIST	A8.03	SECOND FLOOR FINNISH PLAN	E-304	DAF BUILDING - UPPER LEVEL POWER PLAN
C-503	EXISTING SOIL DELINEATIONS & PROPERTIES	A-111	MCC MODIFICATION PLAN & SECTION	E-305	DAF BUILDING - MECHANICAL EQUIPMENT SCHEDULE
C-504	STORM WATER POLLUTION PREVENTION PLAN SAMPLING METHODS	A-301	MAIN SPLITTER UPPER LEVEL PLAN	E-306	DAF BUILDING ONE-LINE DIAGRAM
C-505	STORM WATER PREVENTION PLAN SITE LOCATION & SAMPLING ANALYTICAL METHODS	A-302	MAIN SPLITTER SECTIONS	E-400	DEWATERING BUILDING SOLIDS HANDLING PLAN - ELECTRICAL
C-506	STORM WATER POLLUTION PREVENTION PLAN PHASE 1	A-501	FILTER - HANDRAIL GRATING	E-401	DEWATERING BUILDING POLYMER SYSTEM PLAN - ELECTRICAL
C-507	STORM WATER POLLUTION PREVENTION PLAN PHASE 2	A-502	FILTER - ENLARGED PLAN & SECTIONS	E-402	DEWATERING BUILDING CONTROL AND SCADA RISER
C-508	STROM WATER POLLUTION PREVENTION PLAN PHASE 3	A-503	FILTER - CANOPY ROOF PLAN	E-403	DEWATERING BUILDING ONE-LINE DIAGRAM
C-509	EROSION AND SEDIMENT CONTROL DETAILS	A-504	FILTER - EXTERIOR ELEVATIONS	E-404	DEWATERING BUILDING ONE-LINE DIAGRAM
C-510	EROSION AND SEDIMENT CONTROL DETAILS	PLUMBING			
C-901	CIVIL/SITE DETAILS	P-101	PLUMBING PLAN - GROUND FLOOR - BELOW SLAB	E-501	DISK FILTERS - ELECTRICAL
C-902	CIVIL/SITE DETAILS	P-102	PLUMBING GROUND FLOOR PLAN	E-601	RAS BUILDING ELECTRICAL PLANS
C-903	CIVIL/SITE DETAILS	P-103	PLUMBING - SECOND FLOOR PLAN	E-602	RAS FLOW CONTROL LCP-4010 SCADA RISER
DEMOLITION		P-201	PLUMBING - SCHEDULE, NOTES, LEGEND & DETAILS	E-603	RAS FLOW CONTROL LCP-4020 SCADA RISER
DD001	DEMO SITE PLAN - KEY	MECHANICAL			
DD101	HEADWORKS UPPER AND LOWER LEVEL DEMOLITION PLAN	M-101	GROUND FLOOR PLAN		
DD102	HEADWORKS DEMOLITION SECTION	M-102	FIRST FLOOR PLAN		
DD111	MCC BUILDING DEMOLITION PLAN & SECTION	M-103	MCC BUILDING PLAN		
DD211	PRE-AERATION TANK LOWER LEVEL DEMOLITION PLAN	M-201	GROUND FLOOR PLAN		
DD212	PRE-AERATION TANK UPPER LEVEL DEMOLITION PLAN	M-202	FIRST FLOOR PLAN		
DD213	PRE-AERATION TANK DEMOLITION SECTIONS	M-301	HVAC DETAILS		
DD601	CHLORINE CONTACT CHAMBER DEMO - KEY	M-401	HVAC SCHEDULES, NOTES AND LEGEND		
DD611	CHLORINE CONTACT CHAMBER DEMO PLAN & SECTIONS	PROCESS			
DD612	CHLORINE CONTACT CHAMBER DEMO PLAN & SECTION	D-001	PROCESS SITE PLAN - KEY		
DD701	SLUDGE DEWATERING AREA DEMOLITION PLAN	D-101	HEADWORKS UPPER & LOWER LEVEL PLAN		
STRUCTURAL		D-102	HEADWORKS SECTION		
S-001	STRUCTURAL NOTES	D-103	HEADWORKS SECTIONS		
S-101	DAF BUILDING-NEW STRUCTURAL-SLAB	D-301	MAIN SPLITTER LOWER LEVEL PLAN		
S-102	SLAB PATCH DETAILS	D-302	MAIN SPLITTER UPPER LEVEL PLAN		
S-311	PRIMARY SPLITTER BOX - PLAN VIEWS	D-303	MAIN SPLITTER SECTIONS		
S-312	PRIMARY SPLITTER BOX - SECTIONS	D-311	RAS MODIFICATIONS PLAN & SECTION		
S-501	FILTER - LOWER PLAN	D-401	CLARIFIER PLAN BOX B		
S-502	FILTER - UPPER PLAN	D-402	CLARIFIER PLAN BOX C		



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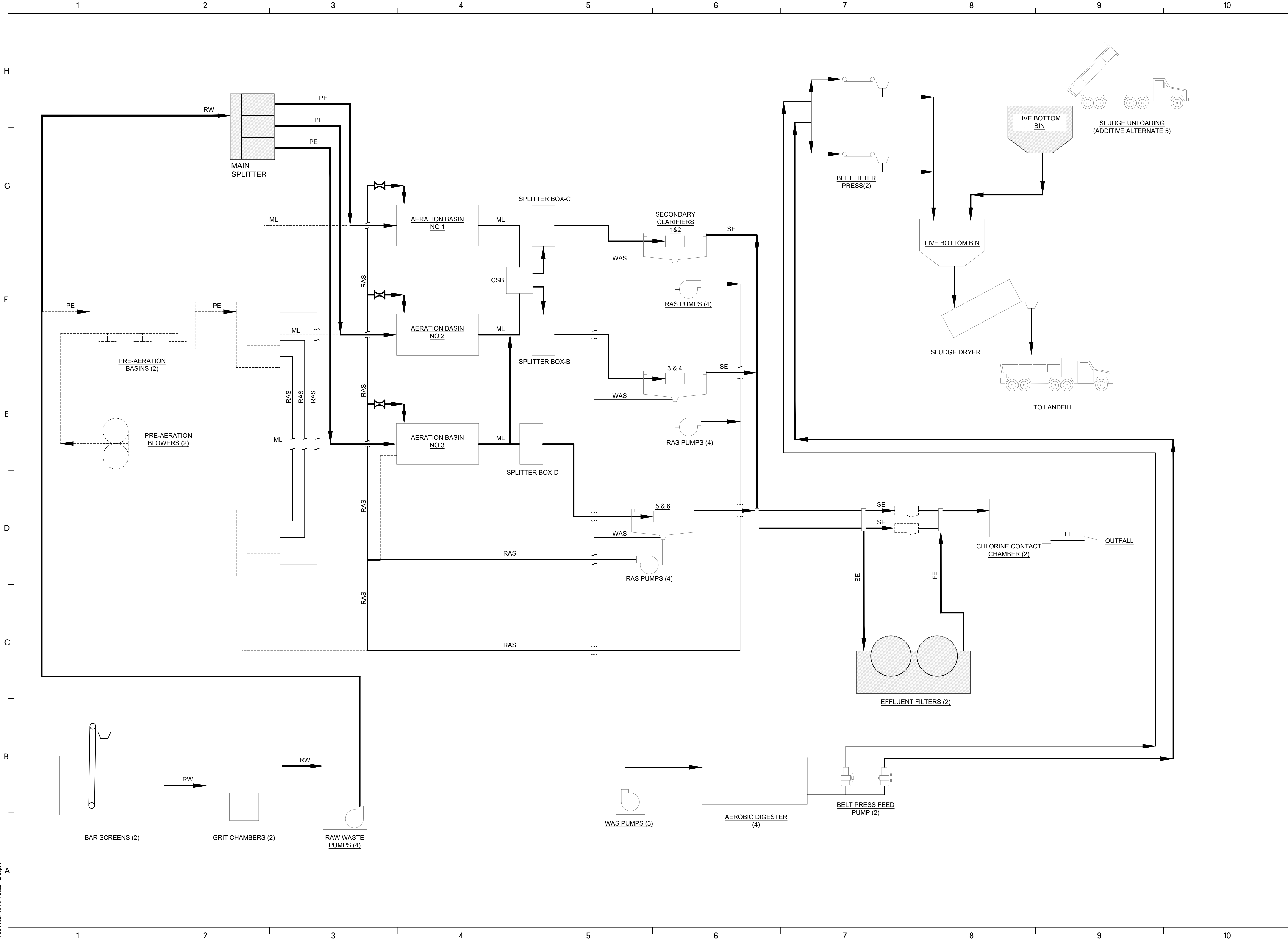
PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGJWSC Project No. 906
GMC Project #CSAV190007



INDEX TO DRAWINGS
G-002

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**PROCESS FLOW
DIAGRAM**

G-003

**2019 WPCF REHABILITATION
ACADEMY CREEK**

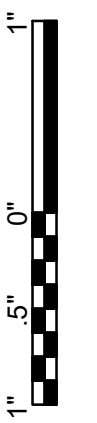
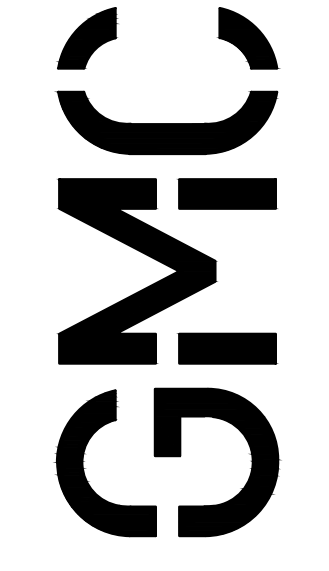
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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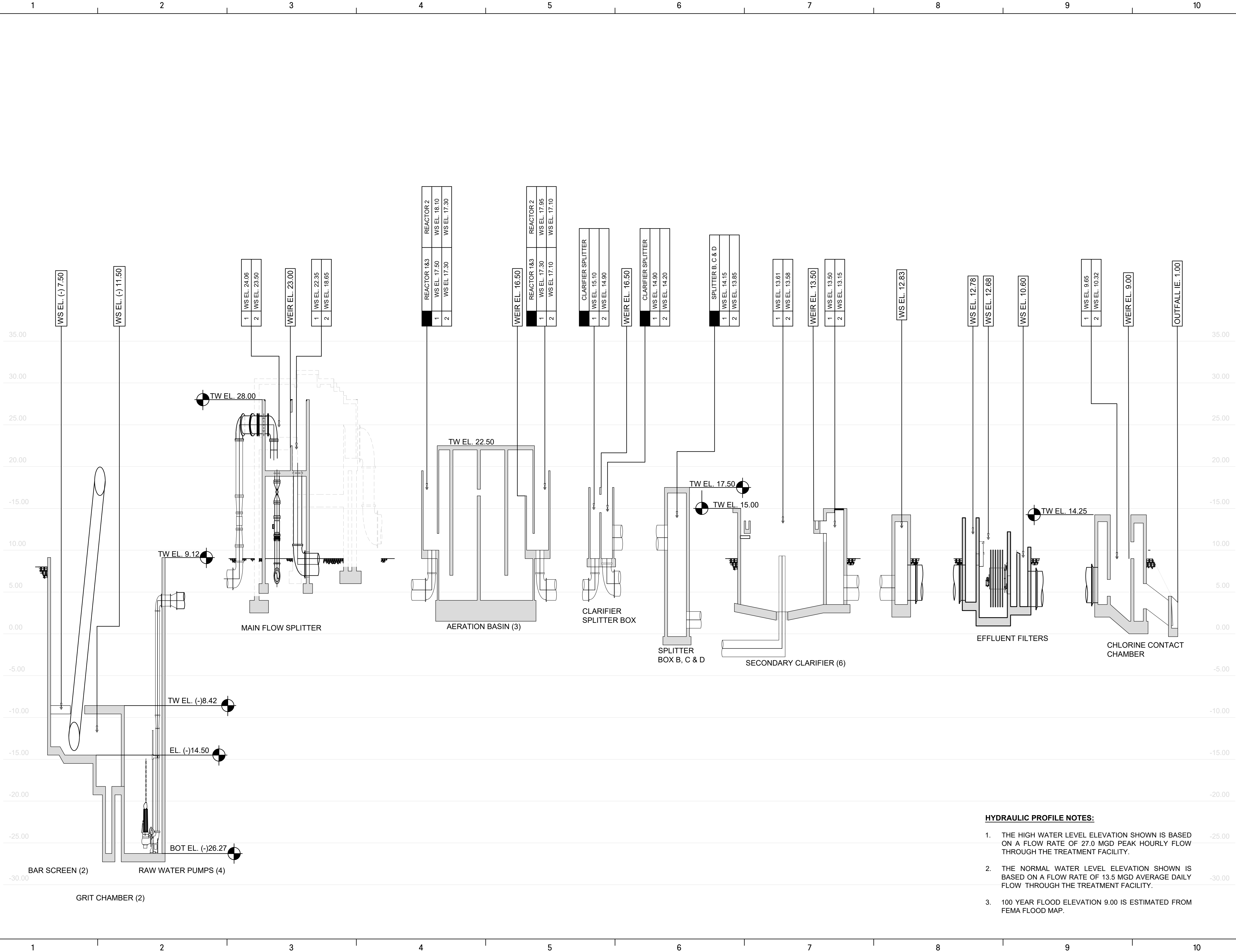


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 PLOTTED: Jun 04, 2020 - 10:07pm



- HYDRAULIC PROFILE NOTES:**
1. THE HIGH WATER LEVEL ELEVATION SHOWN IS BASED ON A FLOW RATE OF 27.0 MGD PEAK HOURLY FLOW THROUGH THE TREATMENT FACILITY.
 2. THE NORMAL WATER LEVEL ELEVATION SHOWN IS BASED ON A FLOW RATE OF 13.5 MGD AVERAGE DAILY FLOW THROUGH THE TREATMENT FACILITY.
 3. 100 YEAR FLOOD ELEVATION 9.00 IS ESTIMATED FROM FEMA FLOOD MAP.

2019 WPCF REHABILITATION
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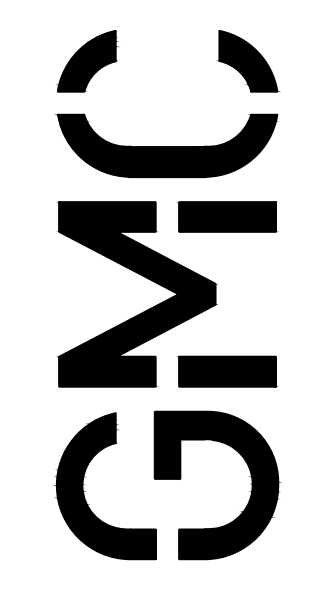
PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

Project No. 906
 GMC Project #CSAV190007

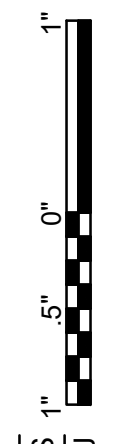


HYDRAULIC PROFILE

G-004



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PLOTTED: Jun 08, 2020 - 1:53pm

SERVICE ABBREVIATION	DESCRIPTION (NOTE 1)	PIPE MATERIAL (SCHEDULED AT RIGHT)				FIELD TESTING REQUIREMENTS (SEE NOTE 4) SEE DEVIATION TABLE		
		EXPOSED PIPING (NOTE 2)		BURIED PIPING (NOTE 3)		MIN TEST PRESSURE (PSI)	TESTING MEDIUM	LEAKAGE ALLOWANCE
		3" DIA & SMALLER	4" DIA & LARGER	3" DIA & SMALLER	4" DIA & LARGER			
A	AIR	1,8	3,5,8,11	1,8	3,5,11	25	AIR	NOTE 7,8
AL	ALUM	9	9	9	9	125	WATER	NOTE 7
		9	9	9	9	125	WATER	NOTE 7
BR	BRINE							
BW	BACKWASH	-	4,5	-	4,5	NOTE 9	WATER	NOTE 7
BWW	BACKWASH WASTE	-	4,5	-	4,5	75	WATER	NOTE 7
C	CARBON	NOTE 11	NOTE 11	NOTE 11	NOTE 11	125	-	NOTE 7,11
CD	CHEMICAL DRAIN	10	10	10	10	NOTE 10	-	
CEN	CENTRATE	-	4,5	-	4,5	75	WATER	NOTE 7
CL	CHLORINE	4	1	4	1	150	AIR	NOTE 7
CLS	CHLORINE SOLUTION	9	9	9	9	125	WATER	NOTE 7
CPA	COMPRESSED AIR	7,13	2	13	2	200	AIR	NOTE 7,8
CWR	COOLING WATER RETURN	8,13	4,8	2,9,13	4,5	125	WATER	NOTE 7
CWS	COOLING WATER SUPPLY	8,13	4,8	2,9,13	4,5	125	WATER	NOTE 7
D	DRAIN	6	6	6	6	NOTE 10	-	
FNE	FINAL EFFLUENT	-	4,5	-	4,5	125	WATER	NOTE 7
FE	FILTER EFFLUENT	2,7,13	4,5	2,13	4,5	25	WATER	NOTE 7
FG	FEED GAS	7	7	7	7	125	AIR	NOTE 7
FM	FORCE MAIN	-	5	-	5,12	125	WATER	NOTE 7
FOG	FOUL AIR GAS	11	11	11	11	125	AIR	NOTE 7
DS	DIGESTED SLUDGE	-	4,5	-	4,5	125	WATER	NOTE 7
GR	GRIT SLURRY	-	1	-	1	125	WATER	NOTE 10
HCl	HYDROCHLORIC ACID	9	9	9	9	125	WATER	NOTE 7
HOCL	SODIUM HYPOCHLORITE	9	9	9	9	125	WATER	NOTE 7
LSG	LOW PRESSURE SLUDGE GAS	7	7	7	7	125	AIR	NOTE 7
LS	LIME SYSTEM	NOTE 11	NOTE 11	NOTE 11	NOTE 11	125	-	NOTE 7
ML	MIXED LIQUOR	-	4,5	-	4,5	125	WATER	NOTE 7
NAOH	SODIUM HYDROXIDE (CAUSTIC)	1	1	1	1	125	WATER	NOTE 7
NG	NATURAL GAS	2,7,13	1	2,7,13	1	150	AIR	NOTE 7
NPW	NON-POTABLE WATER	2,7,13	4,5	2,9,13	4,5	125	WATER	NOTE 7
OF	OVERFLOW	4,5	4,5	4,5	4,5	NOTE 9	WATER	NOTE 7
OFG	OFF GAS	7	7	7	7	125	AIR	NOTE 7
PA	PLANT AIR	1	-	1	-	300	AIR	NOTE 7,8
PAC	POLY ALUMINUM CHLORIDE	9	9	9	9	125	WATER	NOTE 7
PD	PUMPED DRAIN	2,9	2,5	2,9	5,9	125	WATER	NOTE 7
PE	PRIMARY EFFLUENT	-	5	-	5	125	WATER	NOTE 7
POL	POLYMER SOLUTION	9	-	9	-	125	WATER	NOTE 7
PSC	PRIMARY SCUM	15	15	15	15	125	WATER	NOTE 7
PS	PRIMARY SLUDGE	-	5	-	5	125	WATER	NOTE 7
RAS	RETURN ACTIVATED SLUDGE	-	5	-	5	125	WATER	NOTE 7
RCS	RECIRCULATED SLUDGE	-	5	-	5	125	WATER	NOTE 7
RUW	REUSE WATER	-	5	-	5	125	WATER	NOTE 7
RW	RAW WASTE	-	16	-	16	125	WATER	NOTE 7
SA	SAMPLE WATER	8,9,11,13	-	9,11,13	-	125	WATER	NOTE 7
SS	SANITARY SEWER	6	6	6	6	125	WATER	
SSL	SECONDARY SLUDGE	-	5	-	5	125	WATER	NOTE 7
SN	SUPERNATANT	9	4,5	9	4,5	75	WATER	NOTE 7
SE	SECONDARY EFFLUENT	-	4,5	-	4,5	125	WATER	NOTE 7
SP	SODIUM PERMANGANATE	9	-	9	-	125	WATER	NOTE 7
SSC	SECONDARY SCUM	15	15	15	15	125	WATER	NOTE 7
SSL	SECONDARY SLUDGE	-	5	-	5	125	WATER	NOTE 7
TD	TANK DRAIN	-	5	-	5	75	WATER	NOTE 7
TWAS	THICKENED WASTED ACTIVATED SLUDGE	-	5	-	5	125	WATER	NOTE 7
V	VENT	9	9	-	-	125	WATER	
VAC	VACUUM	2,8	3,8	-	-	125	AIR	NOTE 7
W	WATER	2,7,13	4,5	2,9,13	4,5	125	WATER	NOTE 7
WAS	WASTE ACTIVATED SLUDGE	-	5	-	5	125	WATER	NOTE 7
WW	WASTE WASHWATER	-	4,5	-	4,5	125	WATER	NOTE 7

GROUP NO.	PIPE MATERIAL	SPECIFICATION SECTION	FITTINGS	COMMENTS
2	STEEL, ASTM A53, SCH 40, GALVANIZED	40 05 24	3" AND SMALLER, MALLEABLE IRON, ANSIB16.3, THREADED GALVANIZED 150 PSI 4" AND LARGER, CAST IRON, ANSIB16.1, FLANGED OR MECH COUPLING	
3	WELDED STEEL,AWWA C200, UNLINED	40 05 24	WELDED STEEL, AWWA C200 FABRICATED, UNLINED	
4	WELDED STEEL,AWWA C200,	40 05 24	WELDED STEEL, AWWA C200 FABRICATED,	
5	DUCTILE IRON, AWWA C151, 150 PSI, PUSH-ON, MECHANICAL JOINT OR 125 PSI FLANGED, UNLINED FOR AIR LINES	40 05 19	DUCTILE IRON AWWA 110, PUSH-ON, MECHANICAL JOINT 250 PSI (PR), 12" AND SMALLER, 150 SSI (PR). FLANGED JOINTS 125PSI ANSIB16.1	
6	CAST IRON SOIL PIPE ASTM A74, SERVICE WEIGHT, BELL & SPIGOT OR NO-HUB, SYSTEM 5 MAY BE SUBSTITUTED	40 05 19	CAST IRON ASTM A74, SERVICE WEIGHT, BELL & SPIGOT OR NO-HUB, SYSTEM 5 MAY BE SUBSTITUTED	
7	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 40	40 05 23	STAINLESS STEEL TYPE 316, ANSIB16.3, THREADED, 150 PSI, ANSIB16.9, BUTT-WELDED SCH 40 OR 150 PSI FLANGED	
8	STAINLESS STEEL, TYPE 304, ASTM A312, SCHEDULE 10S	40 05 23	STAINLESS STEEL TYPE 304, ANSIB16.9, BUTT-WELDED SCH 10S OR 150 PSI FLANGED	
9	POLYVINYL CHLORIDE (PVC), SCHEDULE 80, ASTM D1785	40 05 31	PVC SCHEDULE 80, ASTM D2467 SOCKET SOLVENT WELD JOINTS	
10	POLYPROPYLENE, ASTM D2146, SCHEDULE 40, HEAT FUSED JOINTS	40 05 31	POLYPROPYLENE, SCHEDULE 40, DRAINAGE TYPE WITH HEAT FUSED SOCKET JOINTS	
11	FIBERGLASS REINFORCED PLASTIC (FRP), ASTM D2996, FILAMENT WOUND SOCKET AND SPIGOT JOINTS, ADHESIVE BONDED	40 05 36	FRP, FILAMENT WOUND, SOCKET ENDS, ADHESIVE BONDED OR FIBERGLASS FLANGES	
12	POLYVINYL CHLORIDE (PVC) PRESSURE PIPE ASTM D2241, WITH BELL & SPIGOT JOINTS	40 05 31	DUCTILE IRON, AWWA C110, CEMENT LINED, AWWA C104	
13	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED	40 05 17	WROUGHT COPPER ANSIB16.22 SOLDER JOINT, 150 PSI OR COMPRESSION FITTINGS (FOR COMPRESSED AIR USE TIN-ANTIMONY SOLDER)	
14	HDPE DR 9 FOR PRESSURE RATING 150 PSI OR MORE, OTHERWISE DR17	40 05 33	HDPE FABRICATED OR MOLDED	
15	DUCTILE IRON(GLASS LINED), AWWA C151, 150 PSI, PUSH-ON, MECHANICAL JOINT OR 125 PSI FLANGED	40 05 19	DUCTILE IRON AWWA 110, PUSH-ON, MECHANICAL JOINT 250 PSI (PR), 12" AND SMALLER, 150 SSI (PR). FLANGED JOINTS 125PSI ANSIB16.1	
16	DUCTILE IRON(CERAMIC EPOXY LINED), AWWA C151, 150 PSI, PUSH-ON, MECHANICAL JOINT OR 125 PSI FLANGED	40 05 19	DUCTILE IRON AWWA 110, PUSH-ON, MECHANICAL JOINT 250 PSI (PR), 12" AND SMALLER, 150 SSI (PR). FLANGED JOINTS 125PSI ANSIB16.1	

NOTES:

- THIS SCHEDULE INCLUDES SOME PROCESS DESIGNATIONS NOT USED IN THIS PROJECT.
- EXPOSED PIPING SHALL BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS. COLORS WILL BE SELECTED BY THE ENGINEER.
- SEE SPECIFICATIONS FOR PIPE LINING AND COATING.
- SEE SPECIFICATION SECTION 400513 FOR ADDITIONAL TESTING REQUIREMENTS.
- DEVIATIONS FROM THIS SCHEDULE OF MATERIALS OR TESTING REQUIREMENTS ARE NOTED IN THE SPECIFICATIONS OR ADDITIONAL NOTATIONS ON THE DRAWINGS.
- SEE VALVE SCHEDULE FOR VALVE TYPE FOR EACH SERVICE.
- FOR PIPING NOT ABLE TO BE PRESSURE TESTED, NO LEAKAGE SHALL SHOW AT MAXIMUM TANK WATER SURFACE ELEVATIONS. FOR PIPING THAT IS ABLE TO BE PRESSURE TESTED, LEAKAGE SHALL BE NO MORE THAN 0.02 GALLONS PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
- LOSS OF PRESSURE SHALL BE LESS THAN 5 PERCENT.
- STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGHEST POINT ON PIPE.
- INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE.
- PIPING MATERIAL SHALL BE ABRASION RESISTANT FLEXIBLE RUBBER HOSE & QUICK CONNECT COUPLINGS WITH SYSTEM 1 PIPING AT EQUIPMENT CONNECTIONS. PIPE SHALL SHOW ZERO LEAKAGE AT NORMAL OPERATING CONDITIONS.

DEVIATIONS FROM SCHEDULED TEST PRESSURES		
LOCATION	OPERATING PRESSURE (PSI)	TEST PRESSURE (PSI)

**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

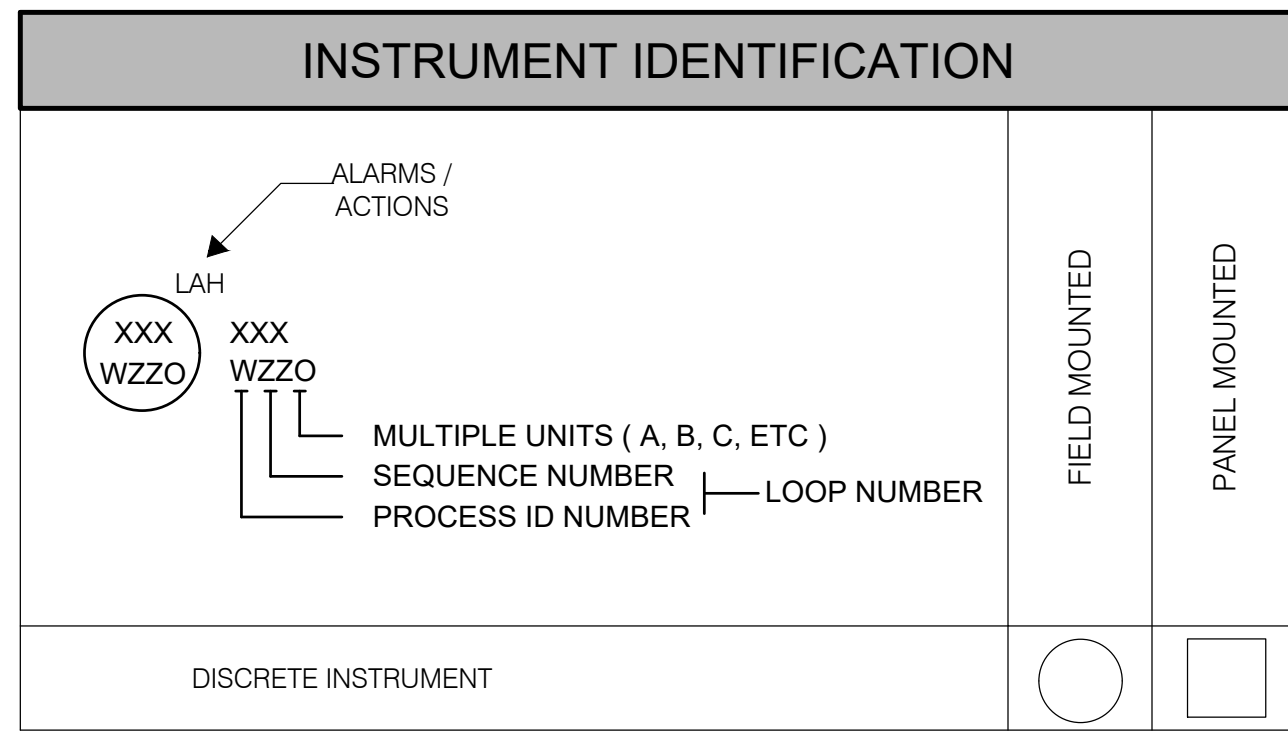
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70% SUBMITTAL 12.16.2019
100% SUBMITTAL 03.12.2020
CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCY
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

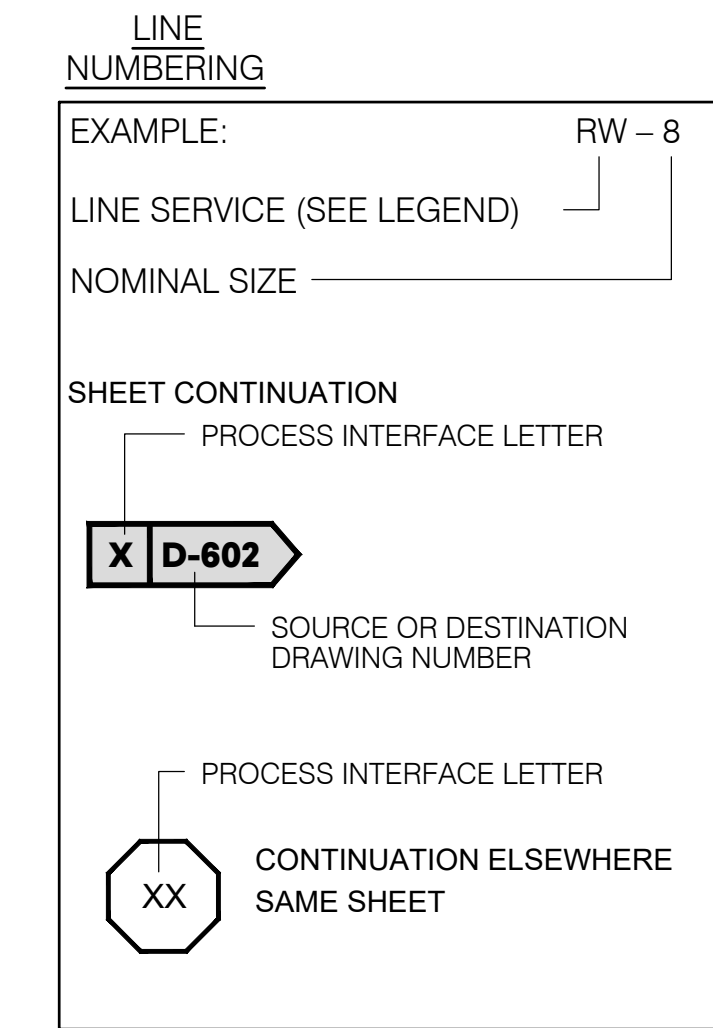
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GMC Project #CSAV190007

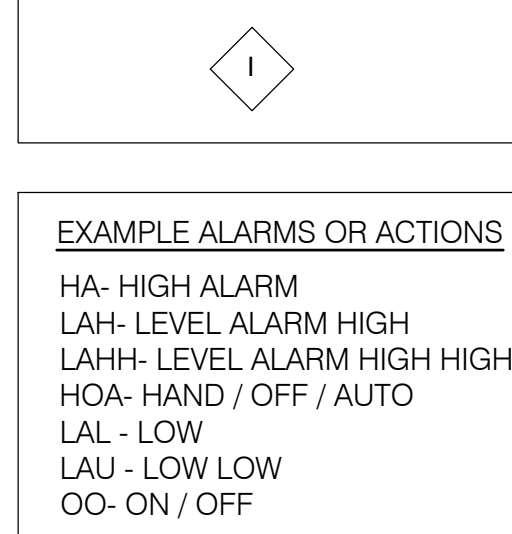
PROCESS PIPING SCHEDULE
G-006



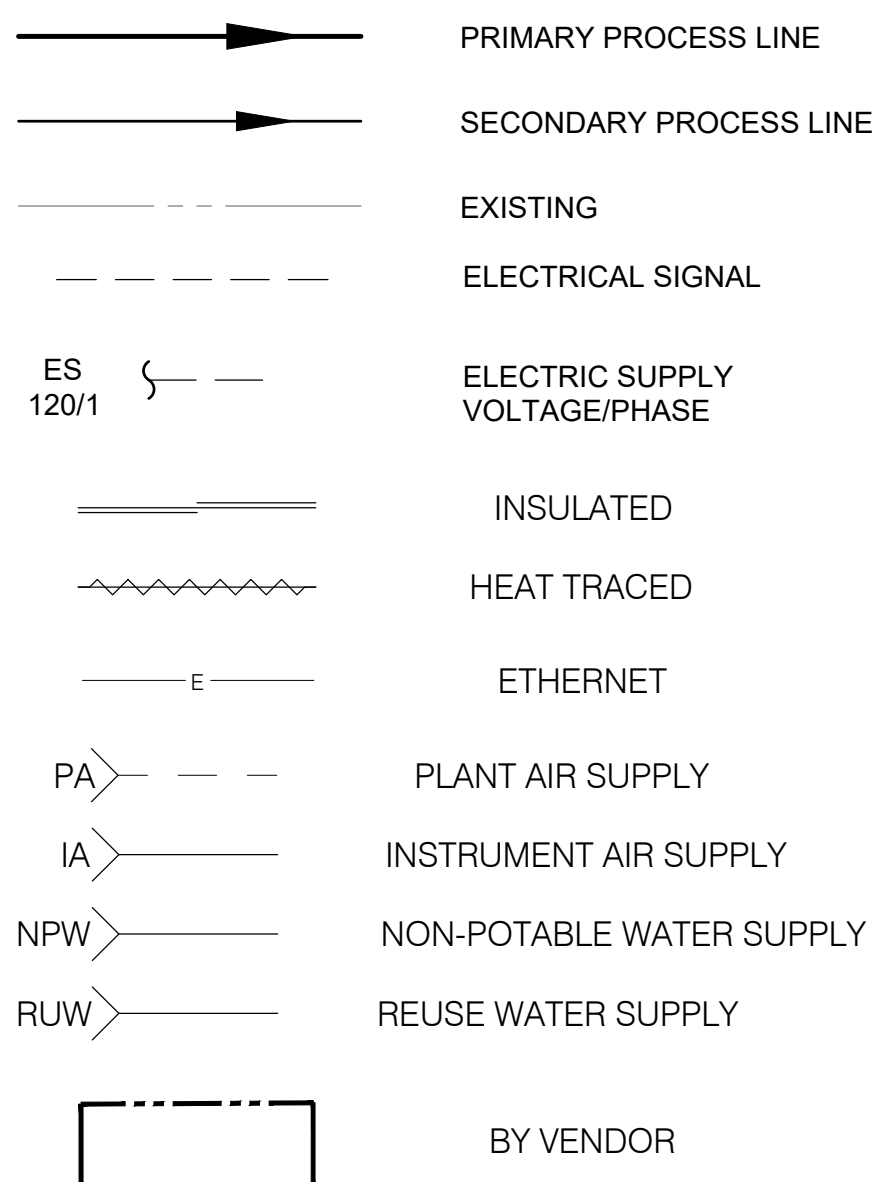
PROCESS LINE SYMBOLS



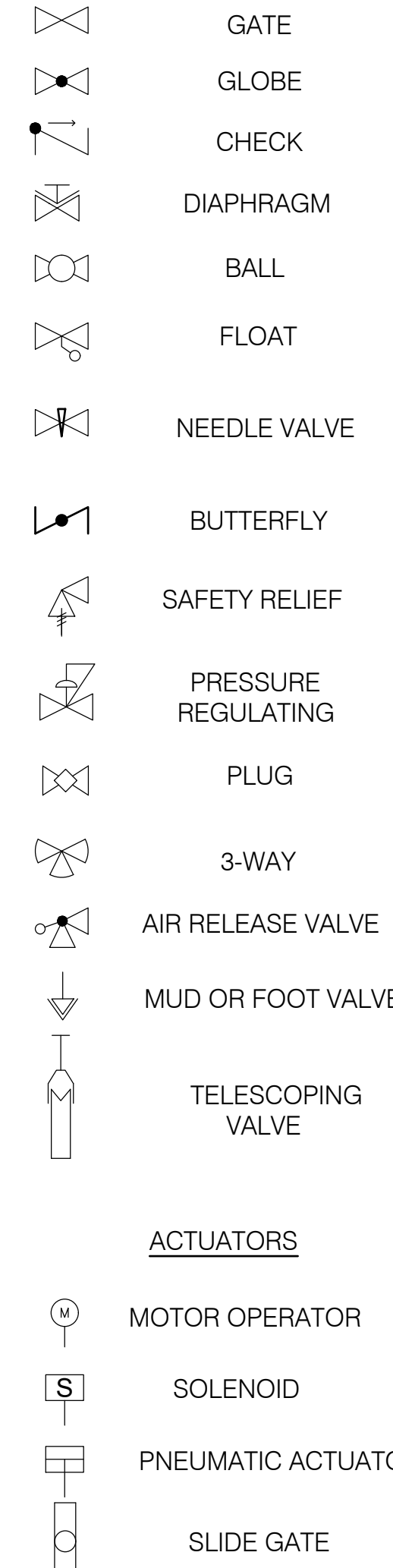
UNDEFINED INTERLOCK LOGIC



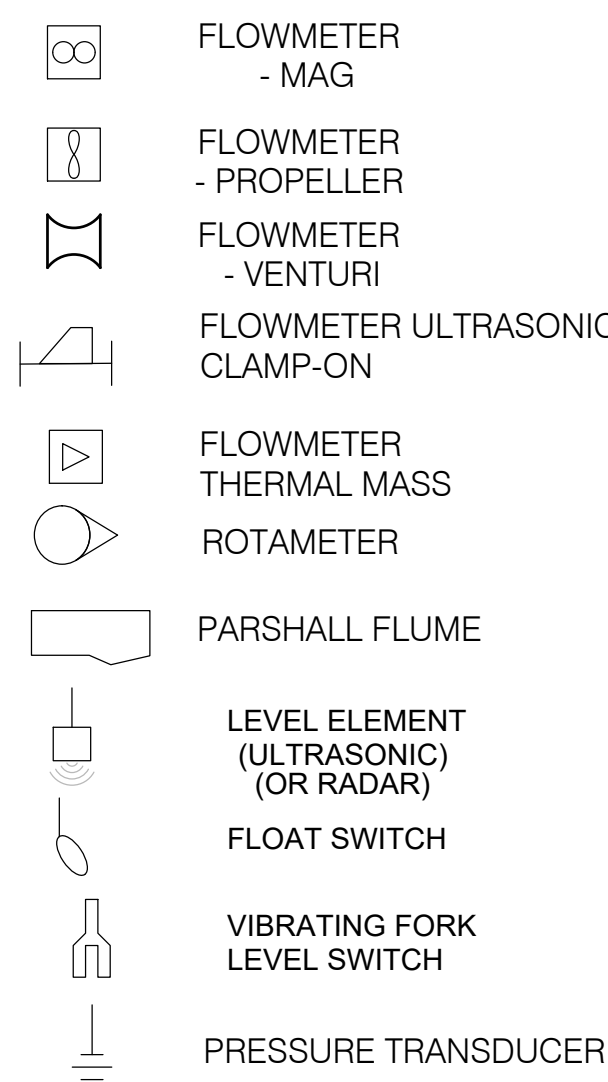
LINE LEGEND



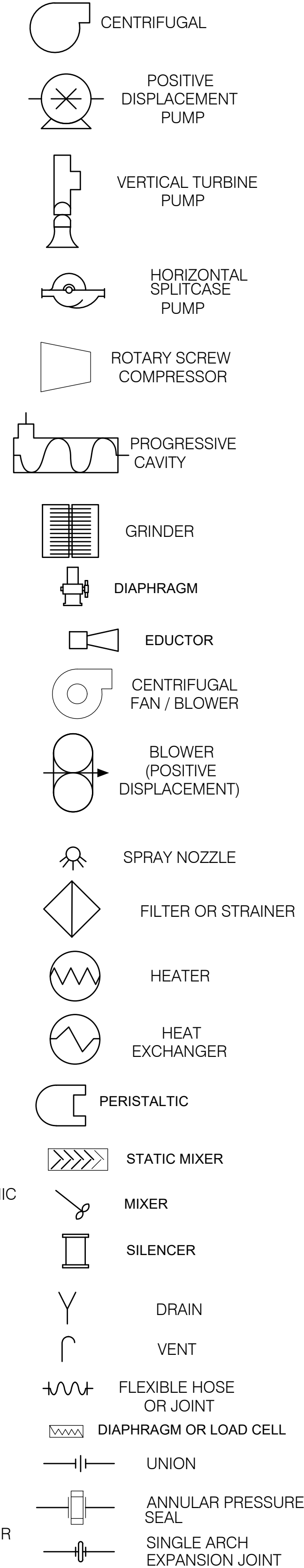
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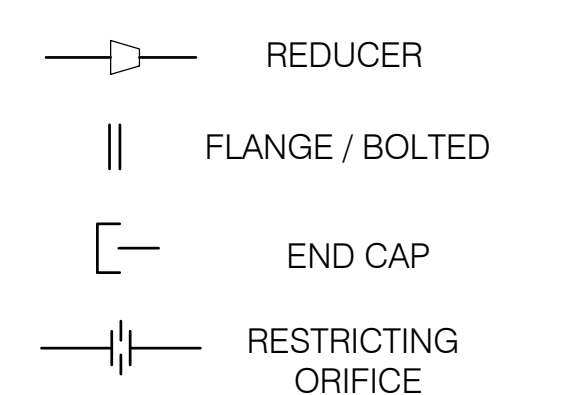
PROCESS INSTRUMENTS



GENERAL EQUIPMENT



GENERAL FITTINGS



ABBREVIATIONS

CONC	CONCENTRIC CONTROL PANEL
CP	CONCENTRIC CONTROL PANEL
DO	DISSOLVED OXYGEN
ECC	ECCENTRIC ELEVATION
EL	ELEVATION
ES	EMERGENCY STOP
FC	FAIL CLOSE
FCP	FACTORY CONTROL PANEL (FURNISHED BY EQUIPMENT MANUFACTURER)
FI	FAIL INTERMEDIATE
FL	FAIL LOCKED
FLG	FLANGE
FO	FAIL OPEN
FOR	FORWARD/OFF/REVERSE (MAINTAINED)
FSR	FORWARD/STOP/REVERSE (MAINTAINED)
FWE	FURNISHED WITH EQUIPMENT
GPM	GALLONS PER MINUTE
HMI	HUMAN MACHINE INTERFACE
HOA	HAND/OFF/AUTO
HP	HIGH PRESSURE
LC	LOCKED CLOSE
LCP	LOCAL CONTROL PANEL (FURNISHED BY SYSTEMS INTEGRATOR)
LO	LOCKED OPEN
LOR	LOCAL/OFF/REMOTE
LP	LOW PRESSURE
LR	LOCAL/REMOTE
LT	LOW TEMPERATURE
MA	MANUAL/AUTO
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
MIN	MINIMUM
MW	MANWAY
NC	NORMALLY CLOSED
NLL	NORMALLY LIQUID LEVEL
NO	NORMALLY OPEN
OC	OPEN/CLOSE
OCA	OPEN/CLOSE/AUTO
OCR	OPEN/CLOSE/REMOTE
OO	ON/OFF
ORIF	ORIFICE
ORP	OXIDATION REDUCTION POTENTIAL
OS	OPERATION SWITCH
PC	PARTICLE COUNT
pH	HYDROGEN ION CONCENTRATION
R	RESET
RED	REDUCER
RS	RUN/STOP (AUTO RESET/RUN @ POWER INTERRUPTION)
RSJ	RUN/STOP/JOE
S	SILENCE
SCH	SCHEDULE
SCM	STREAMING CURRENT MONITOR
SCN	SAMPLE CONNECTION
SD	SHUTDOWN
SLBL	SLUDGE BLANKET LEVEL
SP	SAMPLE POINT
SR	SAFE/RUN
SST	STAINLESS STEEL
SSR	START/STOP (MANUAL RESET @ POWER INTERRUPTION)
STD	STANDARD
T	TEST
TOR	TORQUE
TURB	TURBIDITY
TYP	TYPICAL
UD	UP/DOWN

INSTRUMENT IDENTIFICATION LETTERS

FIRST LETTER		SUCCEEDING LETTERS		
MEASURED OR INITIATING VARIABLE		READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM	
B	BURNER FLAME			
C	CONDUCTIVITY (ELECTRICAL)		CONTROL	CLOSE
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL	DELAY	
E	VOLTAGE (EMF)		PRIMARY ELEMENT	
F	FLOW RATE	RATIO (FRACTION)		
G	GAUGING		GLASS	
H	HAND (MANUALLY INITIATED)			HIGH
I	CURRENT (ELECTRICAL)		INDICATE	
J	POWER	SCAN		
K	TIME OR SCHEDULE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)	LOW
M	MOISTURE OR HUMIDITY	MOMENTARY		MIDDLE OR INTERMEDIATE
N	UNCLASSIFIED			
O	UNCLASSIFIED		ORIFICE (RESTRICTION)	OPEN
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)	
Q	QUANTITY OR EVENT	INTEGRATE OR TOTALIZE		
R	RADIOACTIVITY		RECORD OR PRINT	
S	SPEED OR FREQUENCY	SAFETY		SWITCH
T	TEMPERATURE		TRANSMIT OR TRANSMITTER	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER OR LOUVER
W	WEIGHT OR FORCE		WELL	
X	EVENT			UNCLASSIFIED
Y	UNCLASSIFIED		RELAY, COMPUTE OR CONVERT	
Z	POSITION		DRIVE, ACTUATE OR UNCLASSIFIED	FINAL CONTROL ELEMENT

NOTES:

1. THE PROCESS AND INSTRUMENTATION DIAGRAM IS BASED ON PROCESS EQUIPMENT SHOWN ON THE DRAWINGS, SELECTED BY ENGINEER AND INFORMATION AVAILABLE TO ENGINEER.
2. THE PROCESS AND INSTRUMENTATION DIAGRAM ARRANGEMENT IS BASED ON THE EQUIPMENT BASIS OF DESIGN AS SPECIFIED. CHANGES TO THE LISTED BASIS OF DESIGN RESULTING IN DIFFERENCES OF THE SHOWN ARRANGEMENT SHALL BE THE CONTRACTORS RESPONSIBILITY. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR MODIFICATIONS.
3. THE MANUFACTURER MAY ELECT TO MAKE MODIFICATIONS TO THE PROCESS AND INSTRUMENTATION DIAGRAM TO IMPROVE SYSTEM FUNCTION BUT ONLY WHEN APPROVED BY THE ENGINEER.
4. SEE DRAWING G-003 FOR PROCESS PIPING SERVICE ABBREVIATIONS.

P&ID LEGEND

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

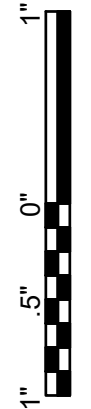


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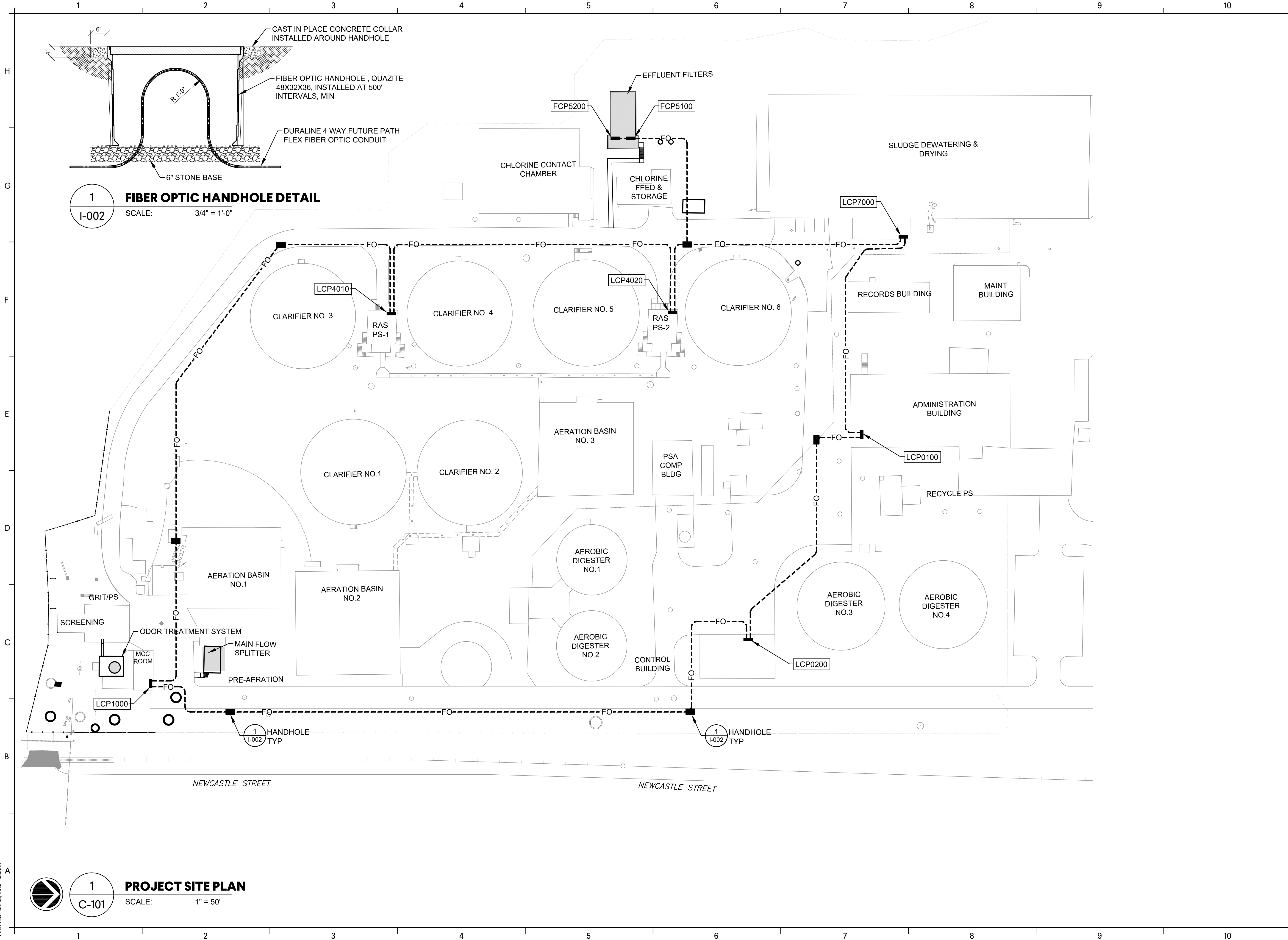
I-001

ISSUE DATE

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CONSTRUCTION SUBMITTAL	06.15.2020	GMCNETWORK.COM
PROJECT MANAGER:	JCV	
ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	GS/AJ	

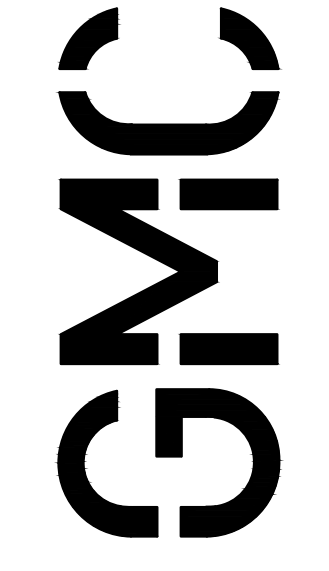


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1 FIBER OPTIC HANDHOLE DETAIL
I-002 SCALE: 3/4" = 1'-0"

1 PROJECT SITE PLAN
C-101 SCALE: 1" = 50'



2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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100% SUBMITTAL 03.12.2020
CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

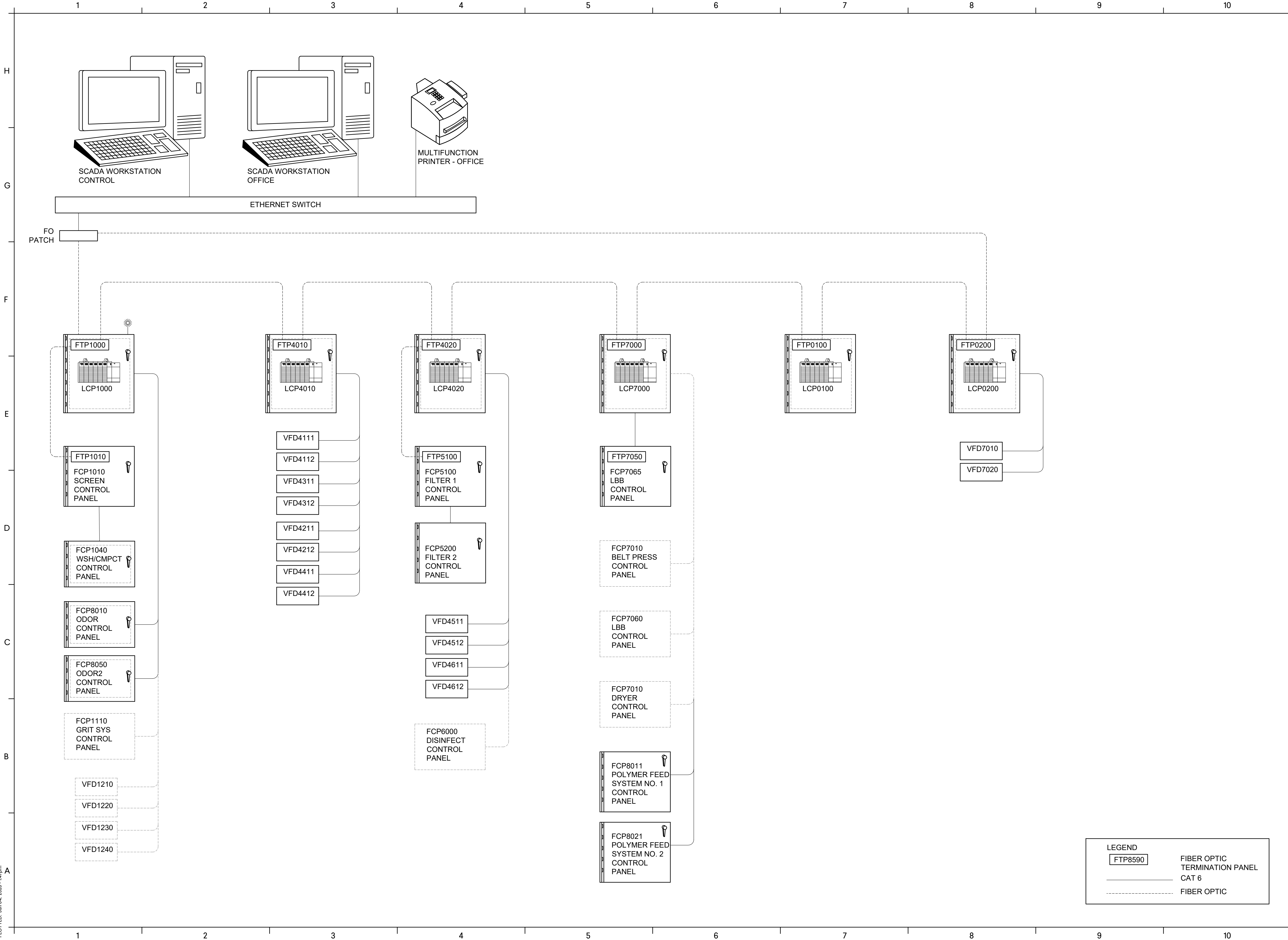
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SITE PLAN
FIBER OPTIC NETWORK

I-002



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P&ID - BLOCK DIAGRAM

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 ACADEMY CREEK**
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

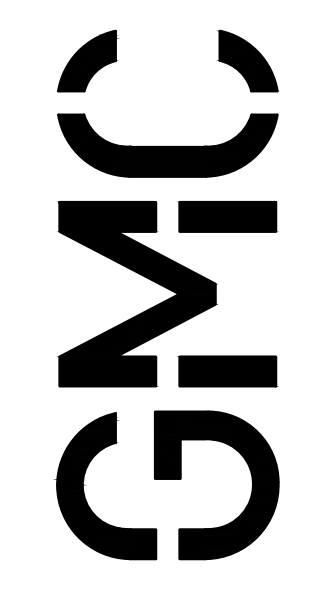
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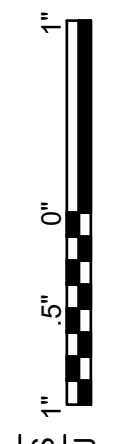
ISSUE DATE

ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

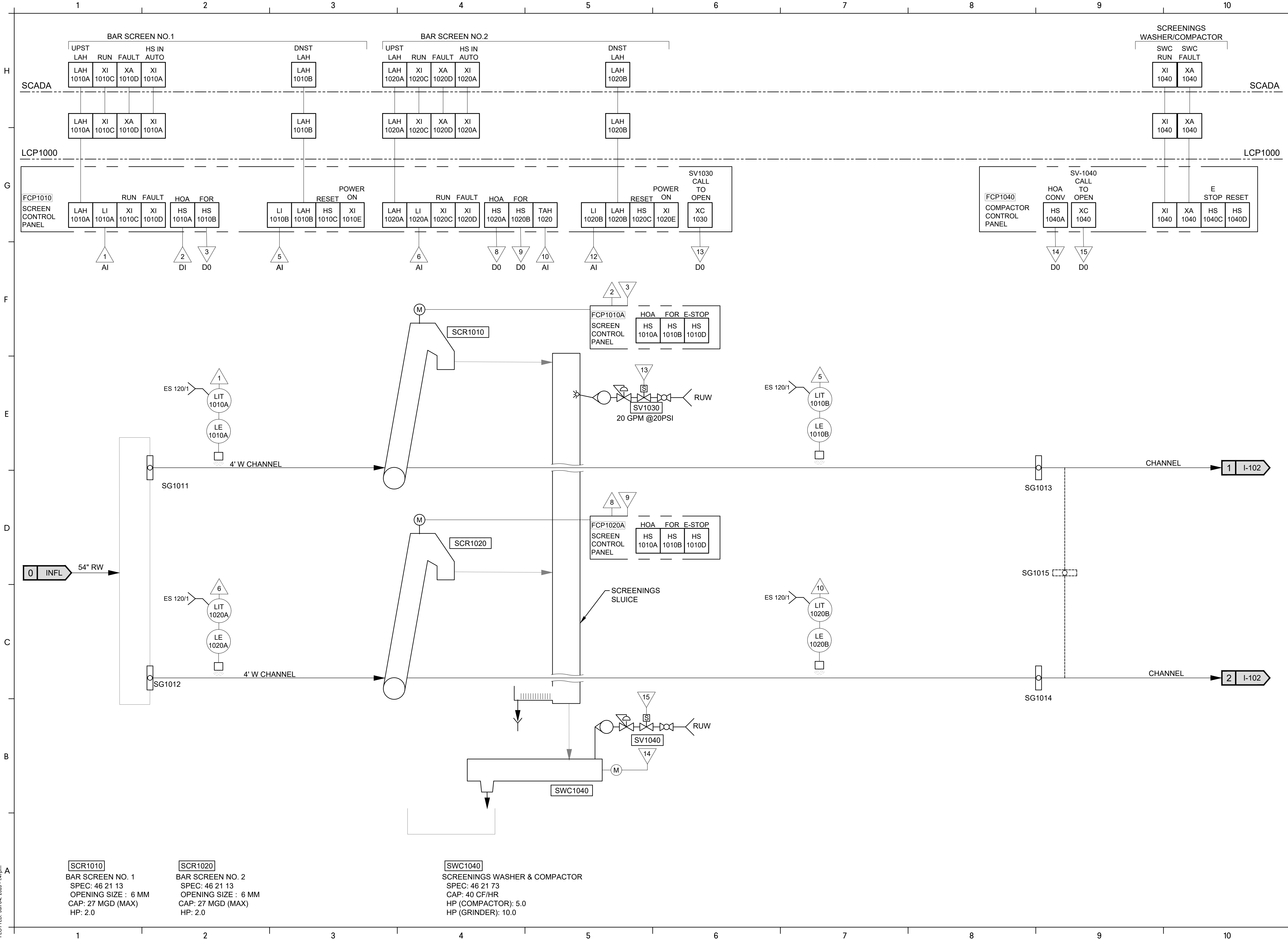
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I-003



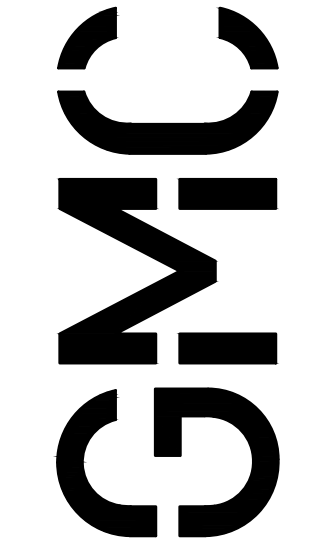
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SCR1010
BAR SCREEN NO. 1
SPEC: 46 21 13
OPENING SIZE : 6 MM
CAP: 27 MGD (MAX)
HP: 2.0

SCR1020
BAR SCREEN NO. 2
SPEC: 46 21 13
OPENING SIZE : 6 MM
CAP: 27 MGD (MAX)
HP: 2.0

SWC1040
SCREENINGS WASHER & COMPACTOR
SPEC: 46 21 73
CAP: 40 CF/HR
HP (COMPACTOR): 5.0
HP (GRINDER): 10.0



2019 WPCF REHABILITATION
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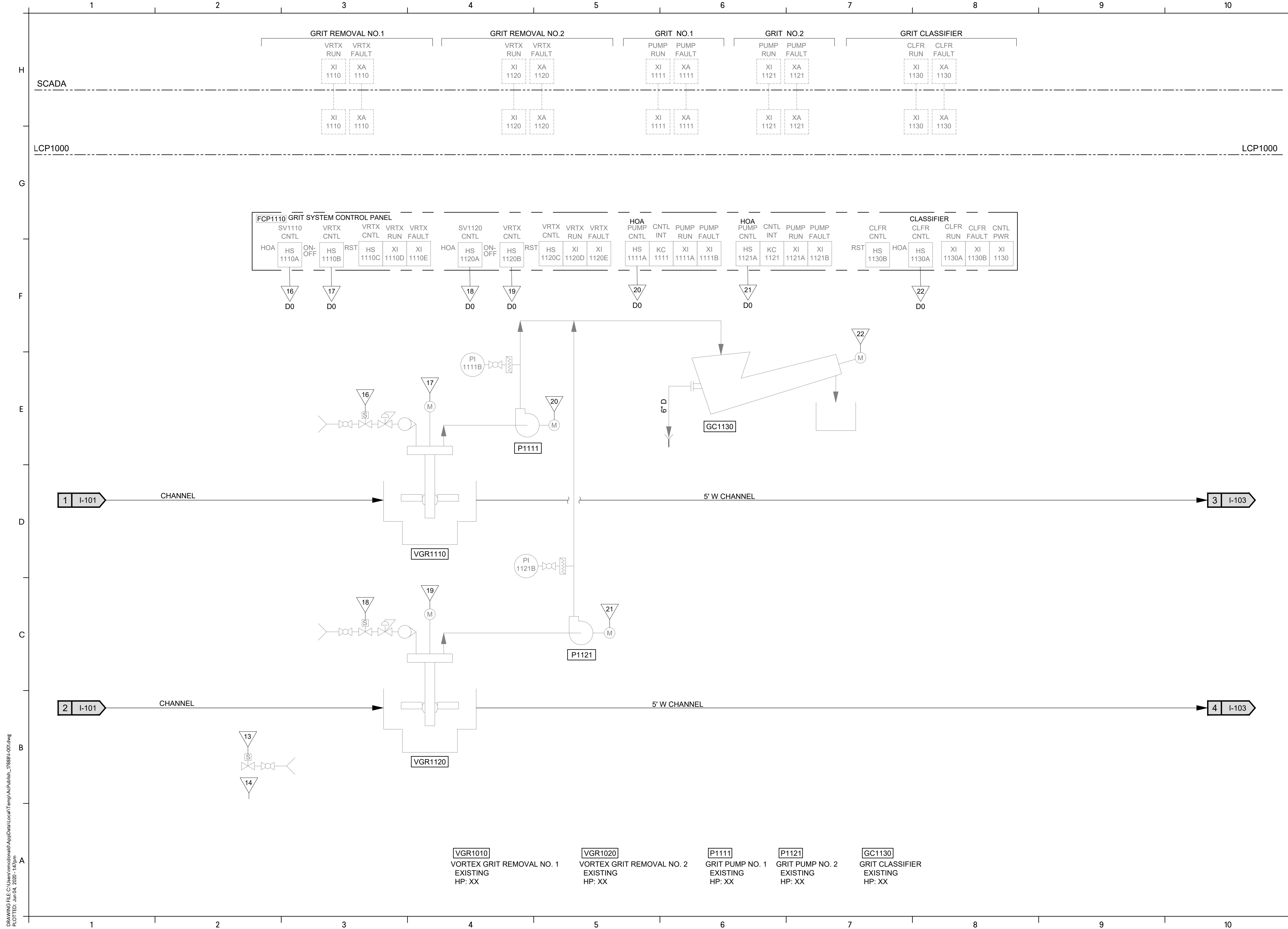
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70% SUBMITTAL	12.16.2019
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CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

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P&ID - SCREENING

I-101



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P&ID - GRIT REMOVAL

I-102

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ACADEMY CREEK
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GMC Project #CSAV190007

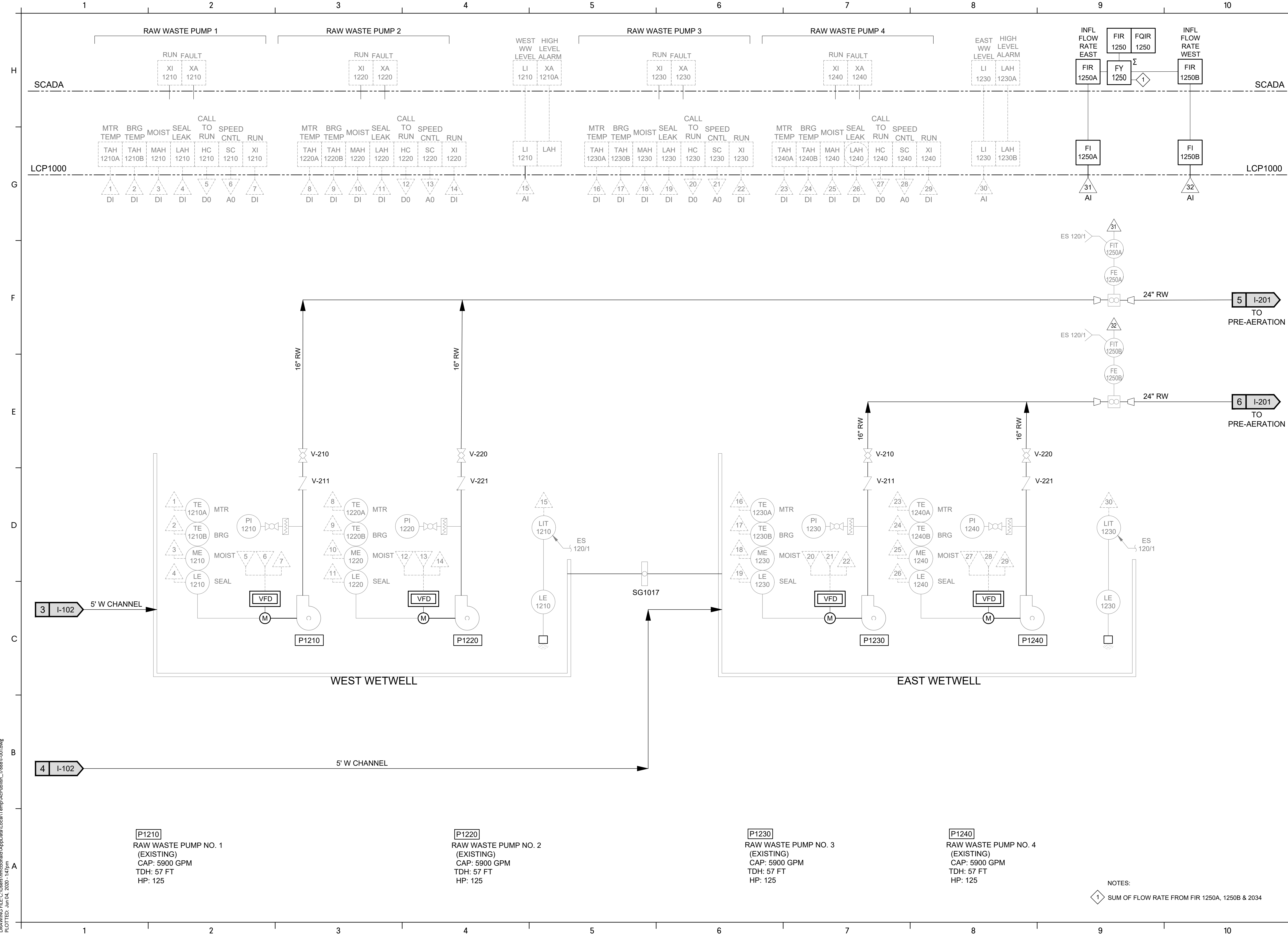
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70% SUBMITTAL	12.16.2019
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CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV

ENGINEER: MEF

DESIGNER: GS

DRAWN BY: GS/AJ



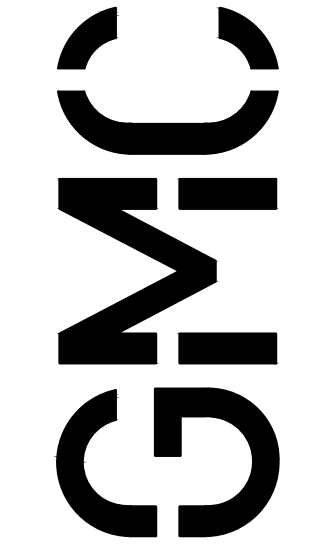
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 CAP: 5900 GPM
 TDH: 57 FT
 HP: 125

P1220
 RAW WASTE PUMP NO. 2
 (EXISTING)
 CAP: 5900 GPM
 TDH: 57 FT
 HP: 125

P1230
 RAW WASTE PUMP NO. 3
 (EXISTING)
 CAP: 5900 GPM
 TDH: 57 FT
 HP: 125

P1240
 RAW WASTE PUMP NO. 4
 (EXISTING)
 CAP: 5900 GPM
 TDH: 57 FT
 HP: 125

NOTES:
 1 SUM OF FLOW RATE FROM FIR 1250A, 1250B & 2034




2019 WPCF REHABILITATION
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BGJWSC Project No. 906
GMC Project #CSAV190007

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CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

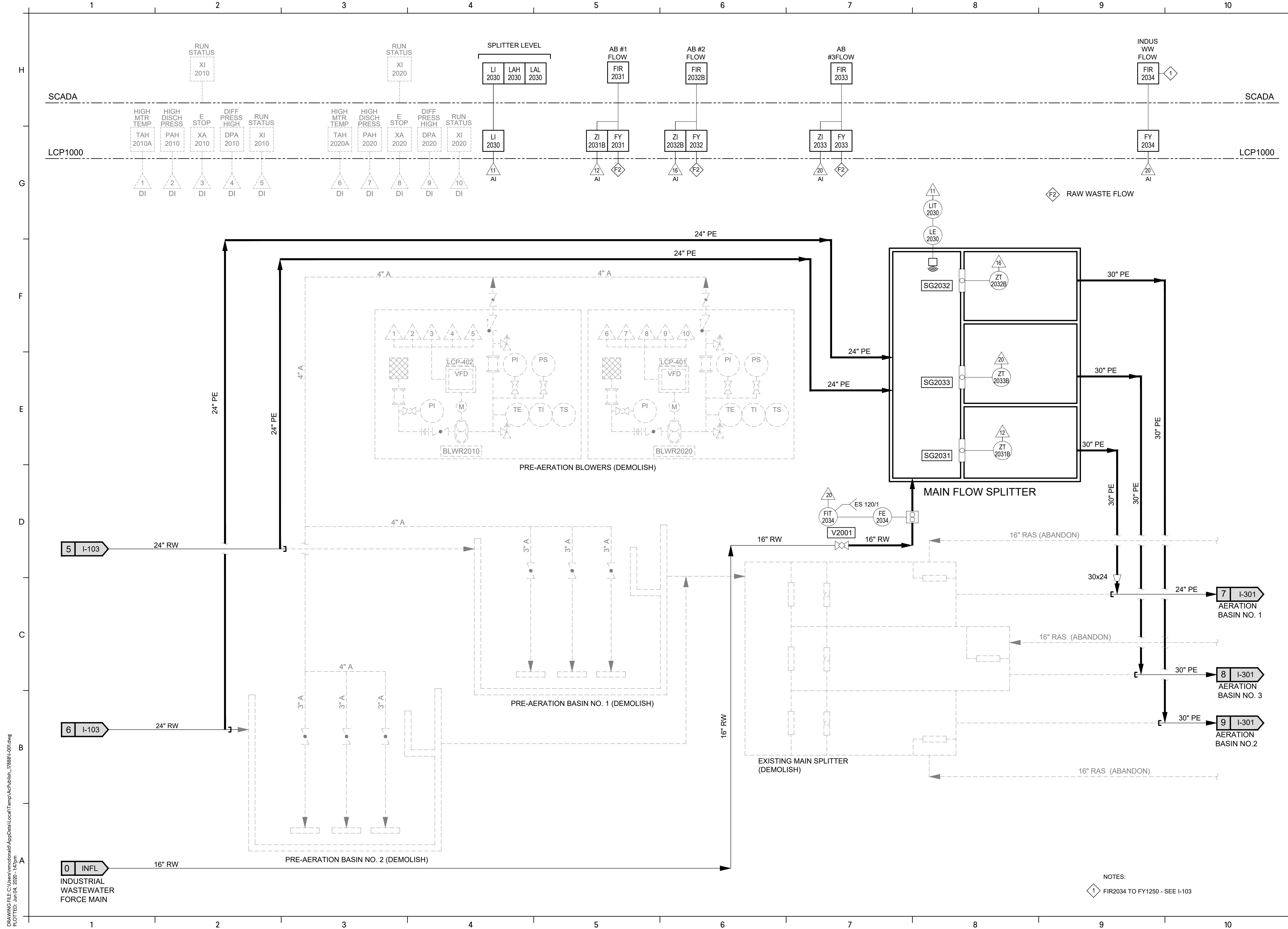
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P&ID - INFLUENT PUMP STATION

I-103

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NOTES:
 1 FIR2034 TO FY1250 - SEE I-103

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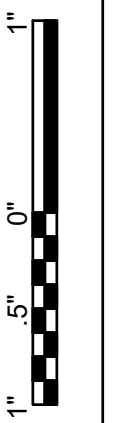
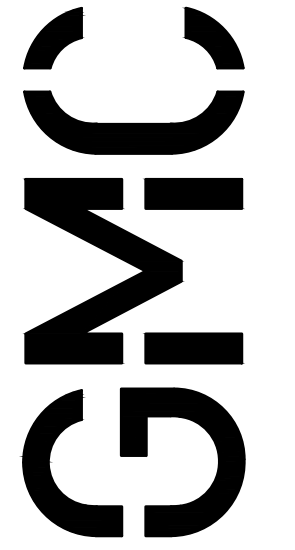
P&ID - PRE-AERATION & FLOW SPLIT

I-201

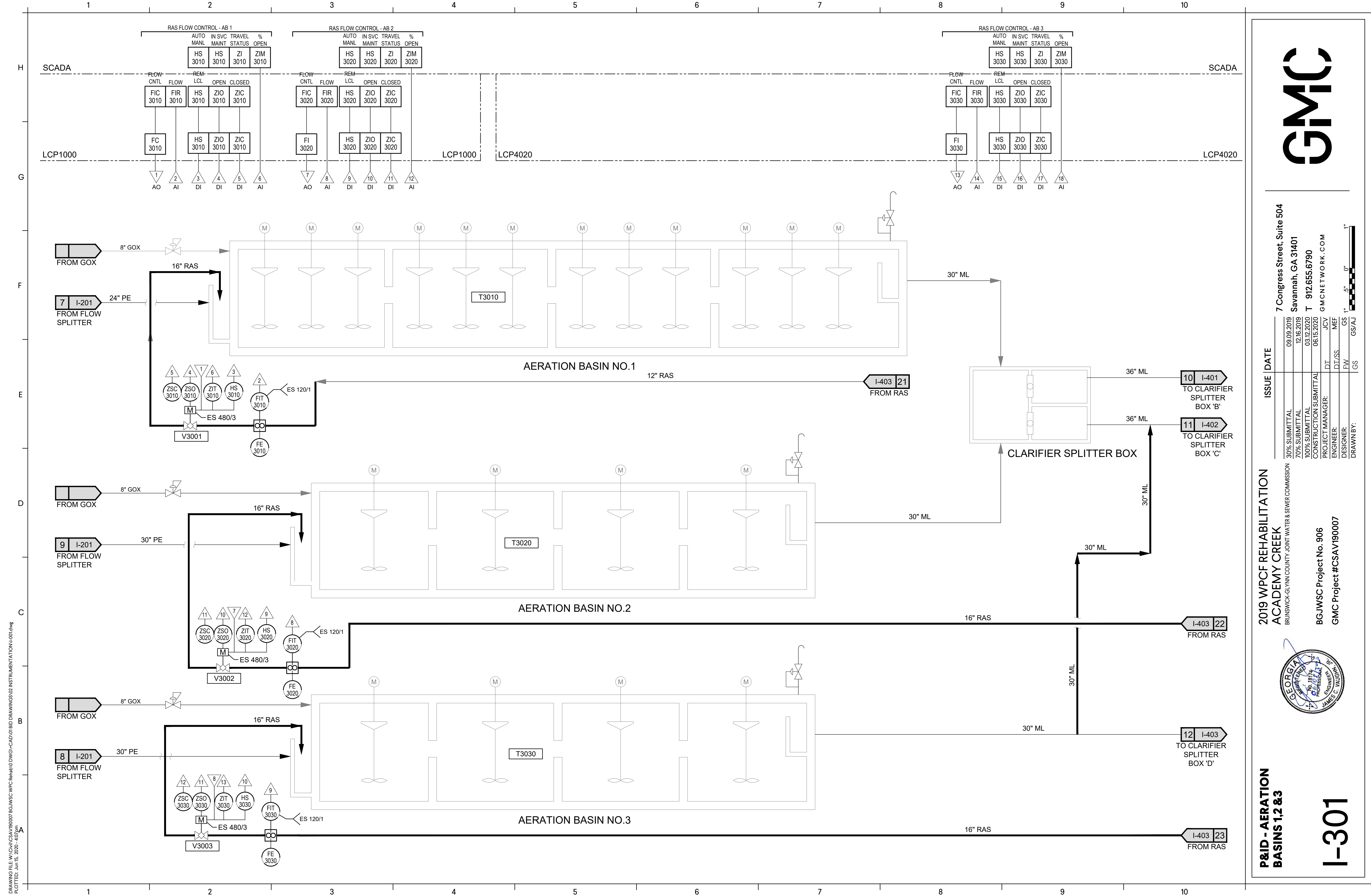
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

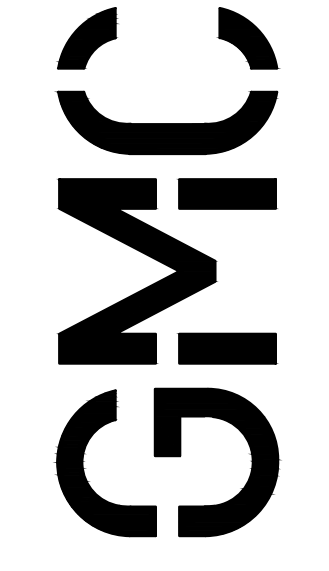
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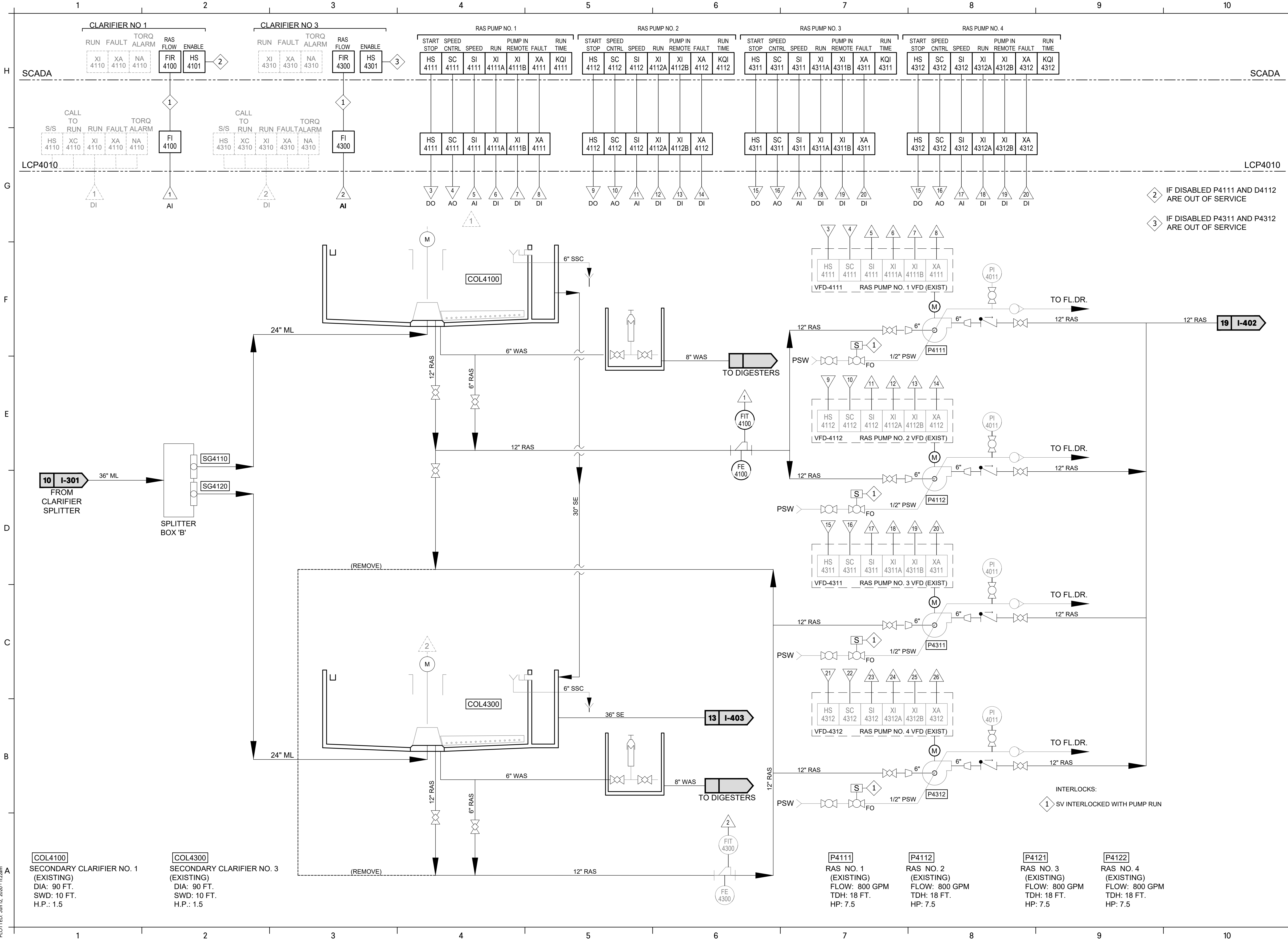
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70% SUBMITTAL	12.16.2019	
100% SUBMITTAL	03.12.2020	
CONSTRUCTION SUBMITTAL	06.15.2020	

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: FW
 DRAWN BY: GS

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
 BGJWSC Project No. 906
 GMC Project #CSAV190007



P&ID - AERATION
BASINS 1, 2 & 3
I-301



COL4100
 SECONDARY CLARIFIER NO. 1
 (EXISTING)
 DIA: 90 FT.
 SWD: 10 FT.
 H.P.: 1.5

COL4300
 SECONDARY CLARIFIER NO. 3
 (EXISTING)
 DIA: 90 FT.
 SWD: 10 FT.
 H.P.: 1.5

P4111
 RAS NO. 1
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4112
 RAS NO. 2
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4311
 RAS NO. 3
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4312
 RAS NO. 4
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

INTERLOCKS:
 1 SV INTERLOCKED WITH PUMP RUN

2 IF DISABLED P4111 AND D4112 ARE OUT OF SERVICE
 3 IF DISABLED P4311 AND P4312 ARE OUT OF SERVICE

**P&ID - CLARIFIERS
 1&2-RAS**

**2019 WPCF REHABILITATION
 ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

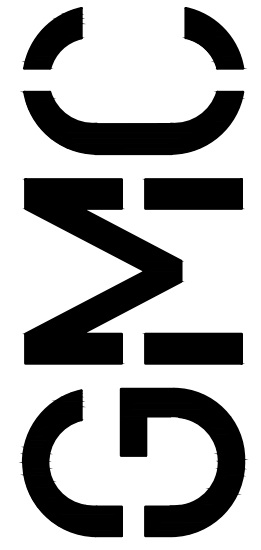
BGJWSC Project No. 906
 GMC Project #CSAV190007



ISSUE DATE

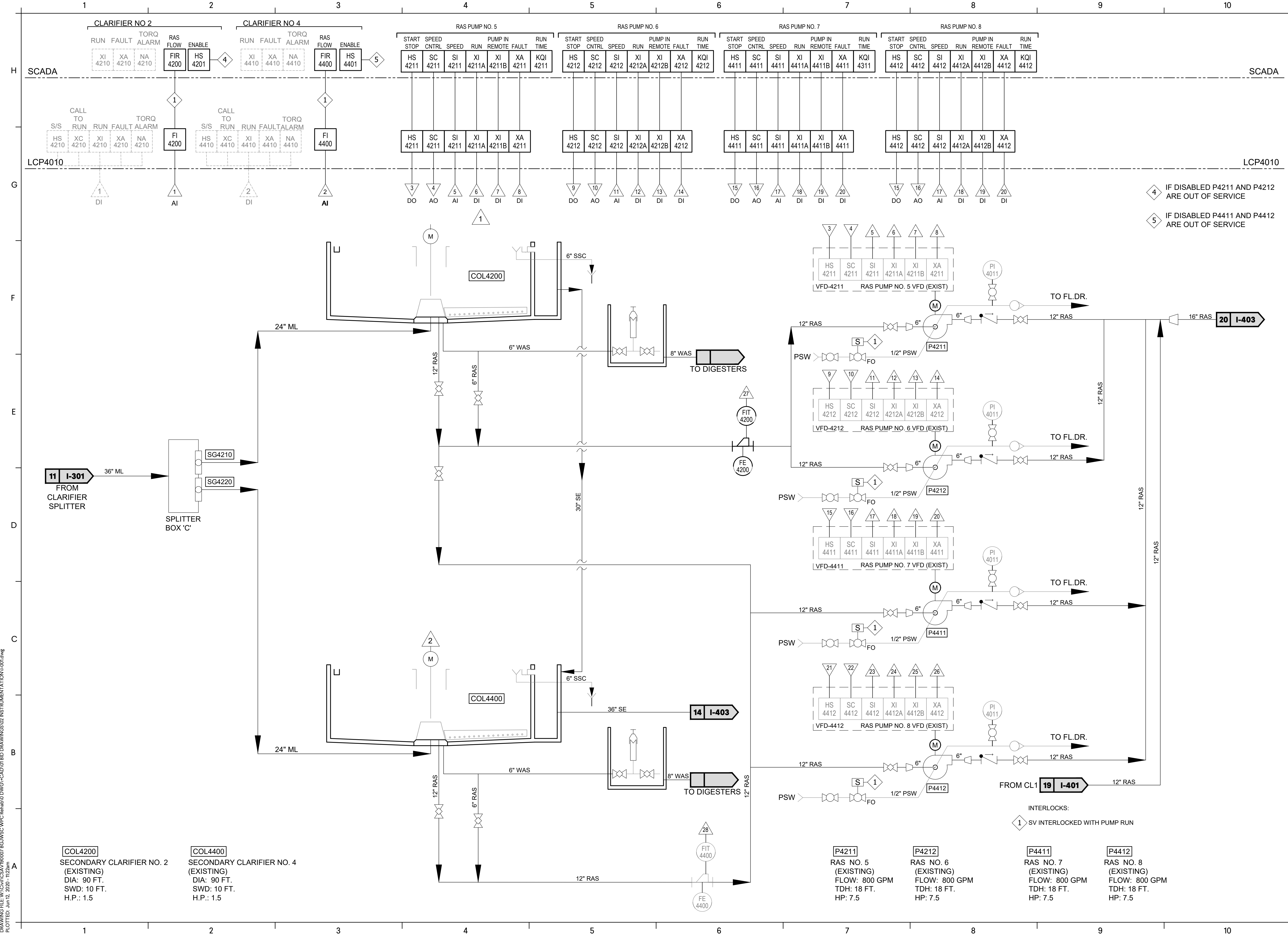
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	DT
ENGINEER:	FW
DESIGNER:	GS
DRAWN BY:	GS/AJ

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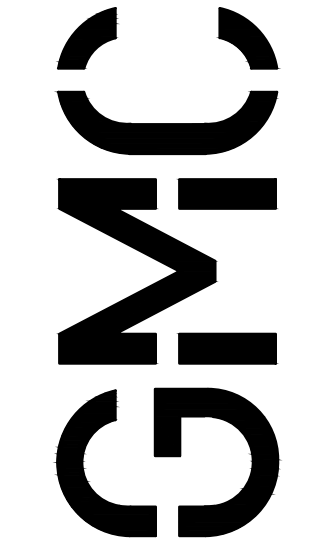


I-401

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2019 WPCF REHABILITATION
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 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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CONSTRUCTION SUBMITTAL	06.15.2020

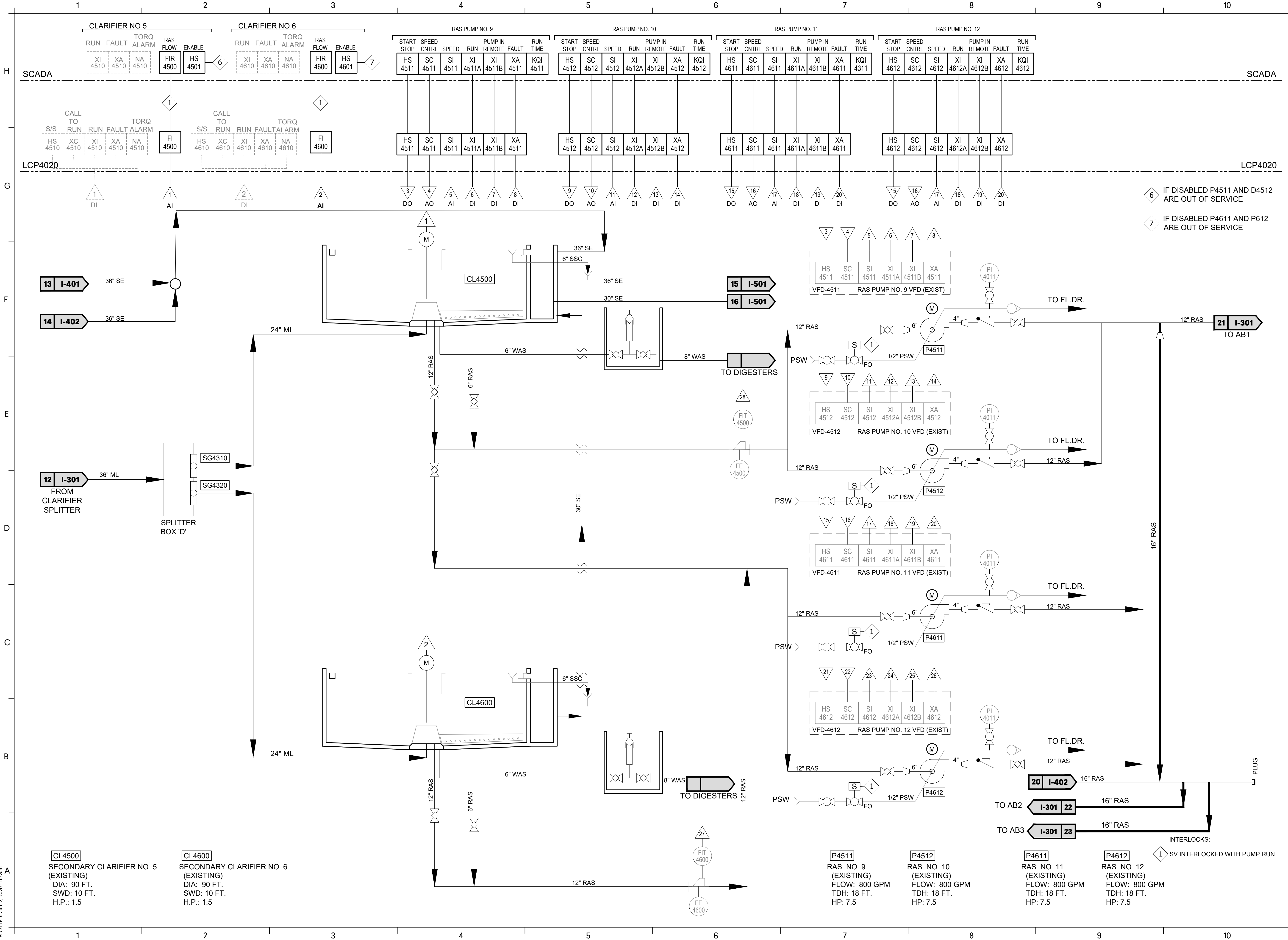
PROJECT MANAGER: DT/JCV
 ENGINEER: DT/SS
 DESIGNER: FW/GS
 DRAWN BY: GS/AJ

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 G M C N E T W O R K . C O M



P&ID - CLARIFIERS
3&4 - RAS

I-402



CL4500
 SECONDARY CLARIFIER NO. 5
 (EXISTING)
 DIA: 90 FT.
 SWD: 10 FT.
 H.P.: 1.5

CL4600
 SECONDARY CLARIFIER NO. 6
 (EXISTING)
 DIA: 90 FT.
 SWD: 10 FT.
 H.P.: 1.5

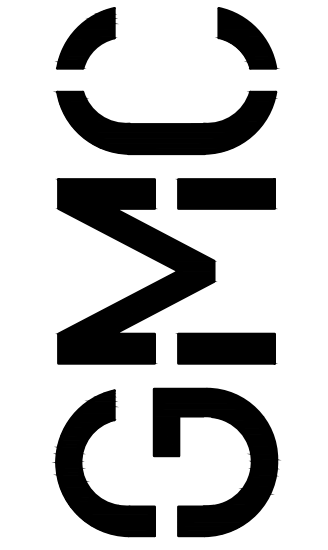
P4511
 RAS NO. 9
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4512
 RAS NO. 10
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4611
 RAS NO. 11
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

P4612
 RAS NO. 12
 (EXISTING)
 FLOW: 800 GPM
 TDH: 18 FT.
 HP: 7.5

1 SV INTERLOCKED WITH PUMP RUN



2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

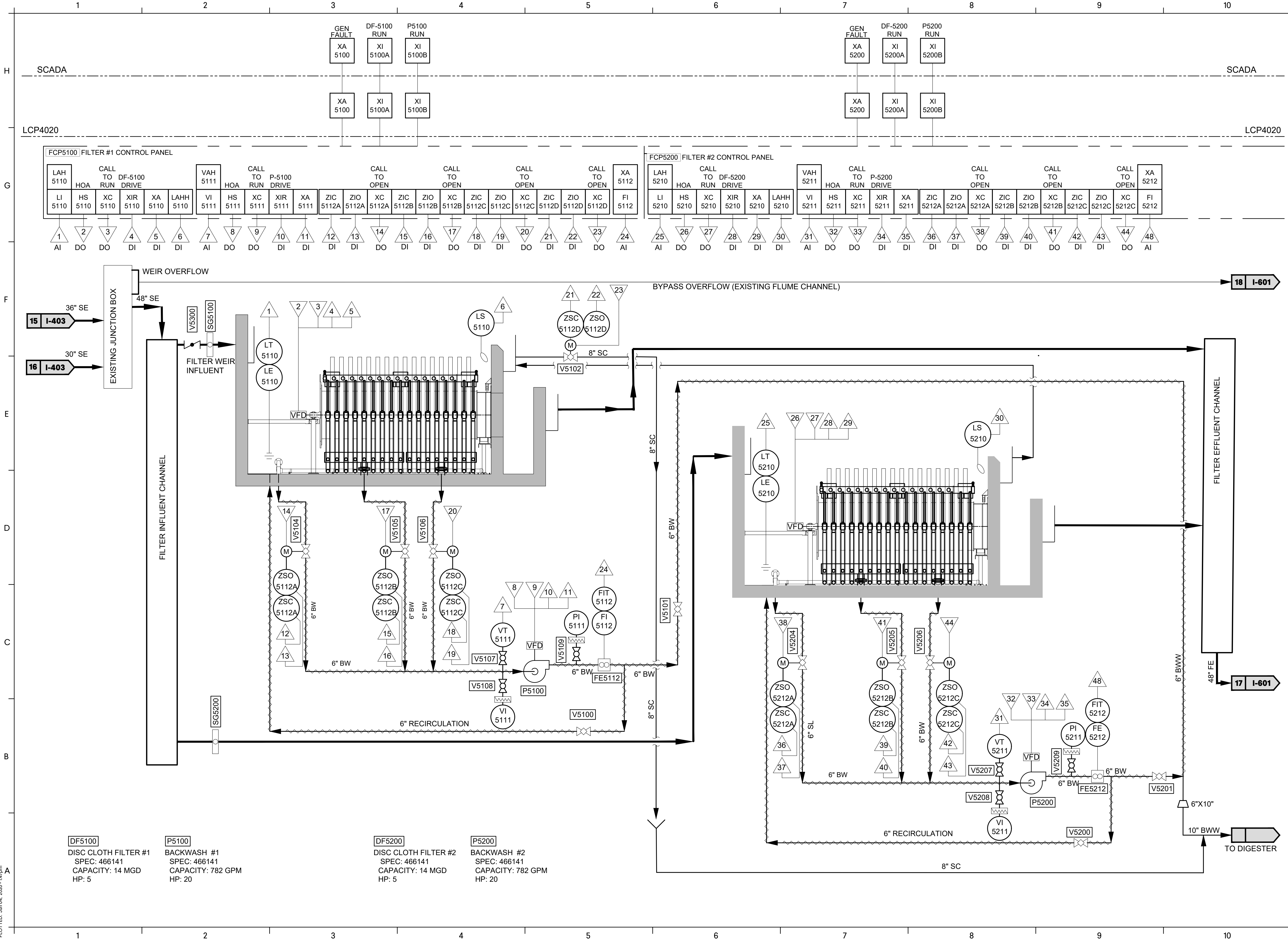
PROJECT MANAGER: DT/SS
 ENGINEER: FW/GS
 DESIGNER: GS/AJ
 DRAWN BY: GS/AJ

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P&ID - CLARIFIERS
5&6 - RAS

I-403

DRAWING FILE: \\A:\CH\CSAV\906007\BGJWSC\WPCF\Rehab\DWG\CAD\01 BID DRAWINGS\02 INSTRUMENTATION\I-403.dwg
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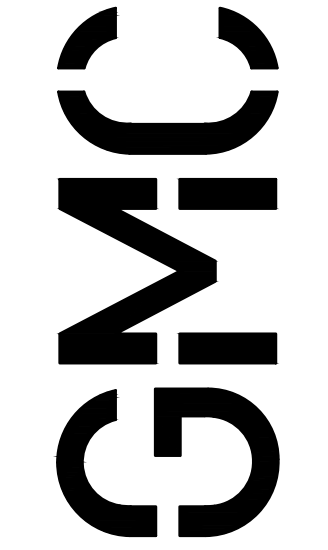
FCP5100 FILTER #1 CONTROL PANEL

LAH 5110	CALL TO RUN	VAH 5111	CALL TO P-5100 DRIVE	CALL TO OPEN				XA 5112																
LI 5110	HOA	HS 5111	XIR 5111	XA 5111	ZIC 5112A	ZIO 5112A	XC 5112B	ZIC 5112C	ZIO 5112C	XC 5112D	ZIC 5112D	ZIO 5112D	XC 5112E	FI 5112										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
AI	DO	DO	DI	DI	DI	AI	DO	DO	DI	DI	DI	DI	DO	DI	DI	DO	DI	DI	DO	DI	DI	DO	DI	AI

FCP5200 FILTER #2 CONTROL PANEL

LAH 5210	CALL TO RUN	VAH 5211	CALL TO P-5200 DRIVE	CALL TO OPEN				XA 5212															
LI 5210	HOA	HS 5210	XIR 5210	XA 5210	ZIC 5212A	ZIO 5212A	XC 5212B	ZIC 5212C	ZIO 5212C	XC 5212D	ZIC 5212D	ZIO 5212D	XC 5212E	FI 5212									
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
AI	DO	DO	DI	DI	DI	AI	DO	DO	DI	DI	DI	DI	DO	DI	DI	DO	DI	DI	DO	DI	DI	DO	AI

- DF5100**
DISC CLOTH FILTER #1
SPEC: 466141
CAPACITY: 14 MGD
HP: 5
- P5100**
BACKWASH #1
SPEC: 466141
CAPACITY: 782 GPM
HP: 20
- DF5200**
DISC CLOTH FILTER #2
SPEC: 466141
CAPACITY: 14 MGD
HP: 5
- P5200**
BACKWASH #2
SPEC: 466141
CAPACITY: 782 GPM
HP: 20




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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

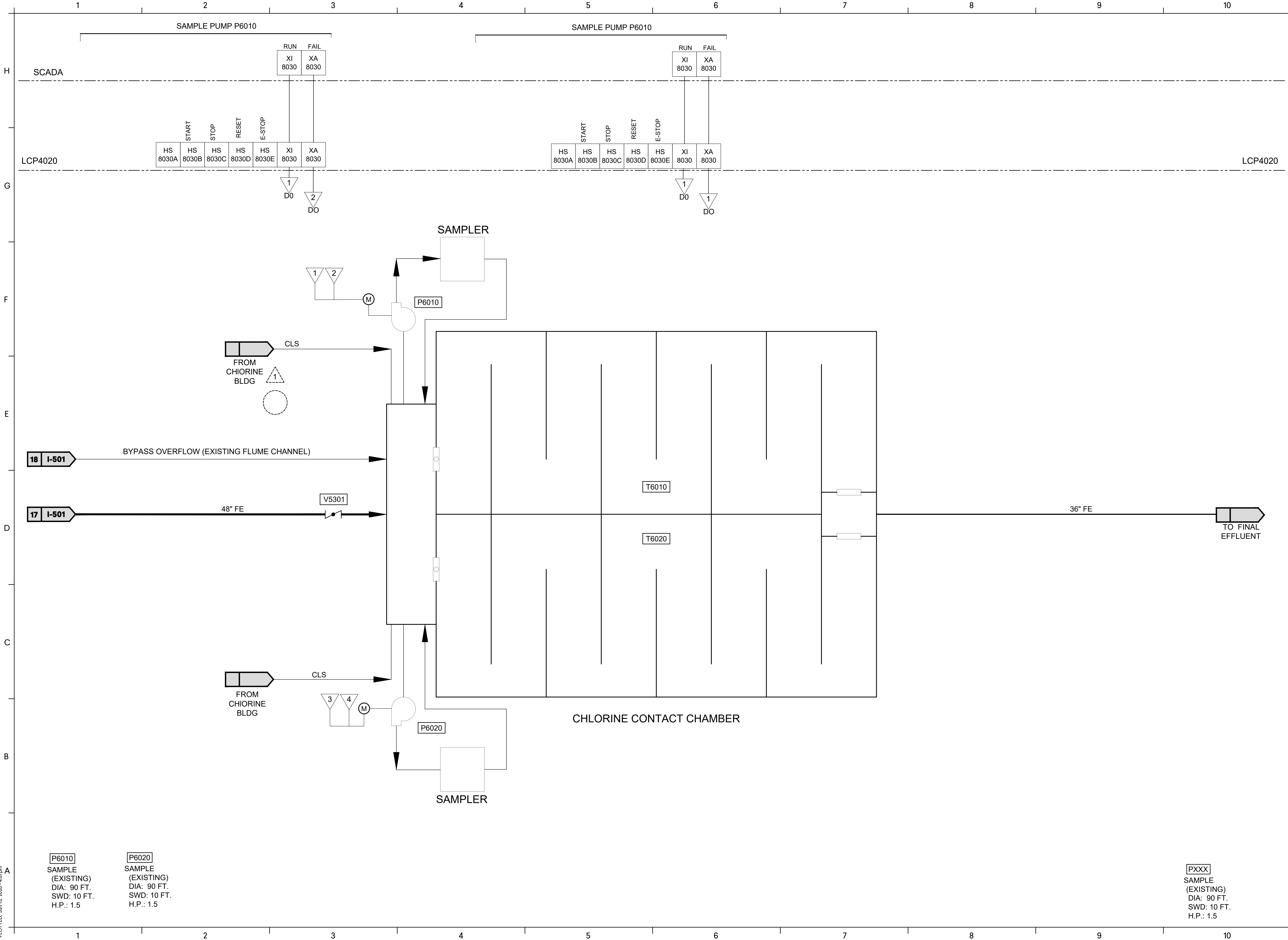
BGJWSC Project No. 906
GMC Project #CSAV190007



P&ID - TERTIARY FILTERS

I-501

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PLOTTED: Jun 18, 2020 - 4:07 PM



P6010
SAMPLE
(EXISTING)
DIA: 90 FT.
SWD: 10 FT.
H.P.: 1.5

P6020
SAMPLE
(EXISTING)
DIA: 90 FT.
SWD: 10 FT.
H.P.: 1.5

PXXX
SAMPLE
(EXISTING)
DIA: 90 FT.
SWD: 10 FT.
H.P.: 1.5

P&ID - CHLORINE CONTACT CHAMBERS

I-601



**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

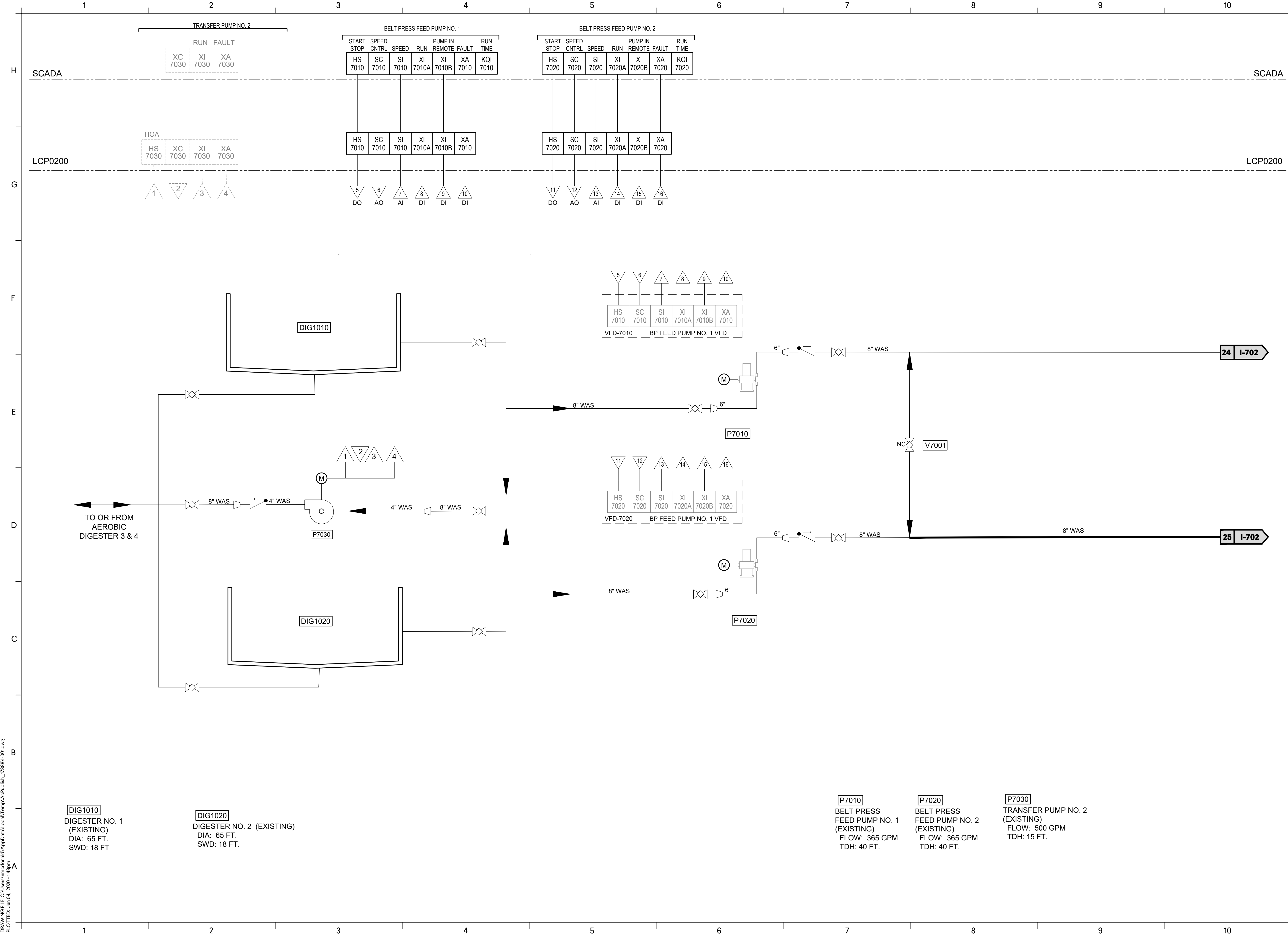
BGJWSC Project No. 906
GMC Project #CSAV190007

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ISSUE DATE

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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ





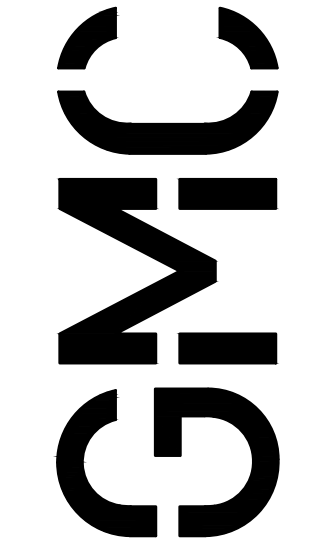
DIG1010
 DIGESTER NO. 1
 (EXISTING)
 DIA: 65 FT.
 SWD: 18 FT

DIG1020
 DIGESTER NO. 2 (EXISTING)
 DIA: 65 FT.
 SWD: 18 FT.

P7010
 BELT PRESS
 FEED PUMP NO. 1
 (EXISTING)
 FLOW: 365 GPM
 TDH: 40 FT.

P7020
 BELT PRESS
 FEED PUMP NO. 2
 (EXISTING)
 FLOW: 365 GPM
 TDH: 40 FT.

P7030
 TRANSFER PUMP NO. 2
 (EXISTING)
 FLOW: 500 GPM
 TDH: 15 FT.



2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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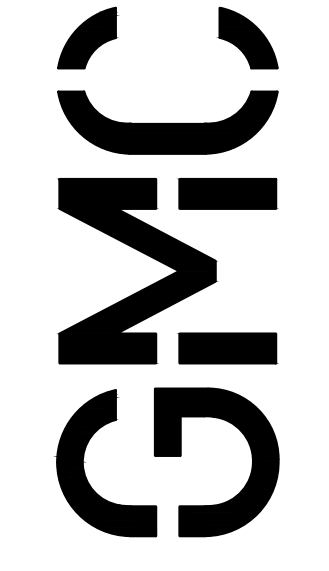
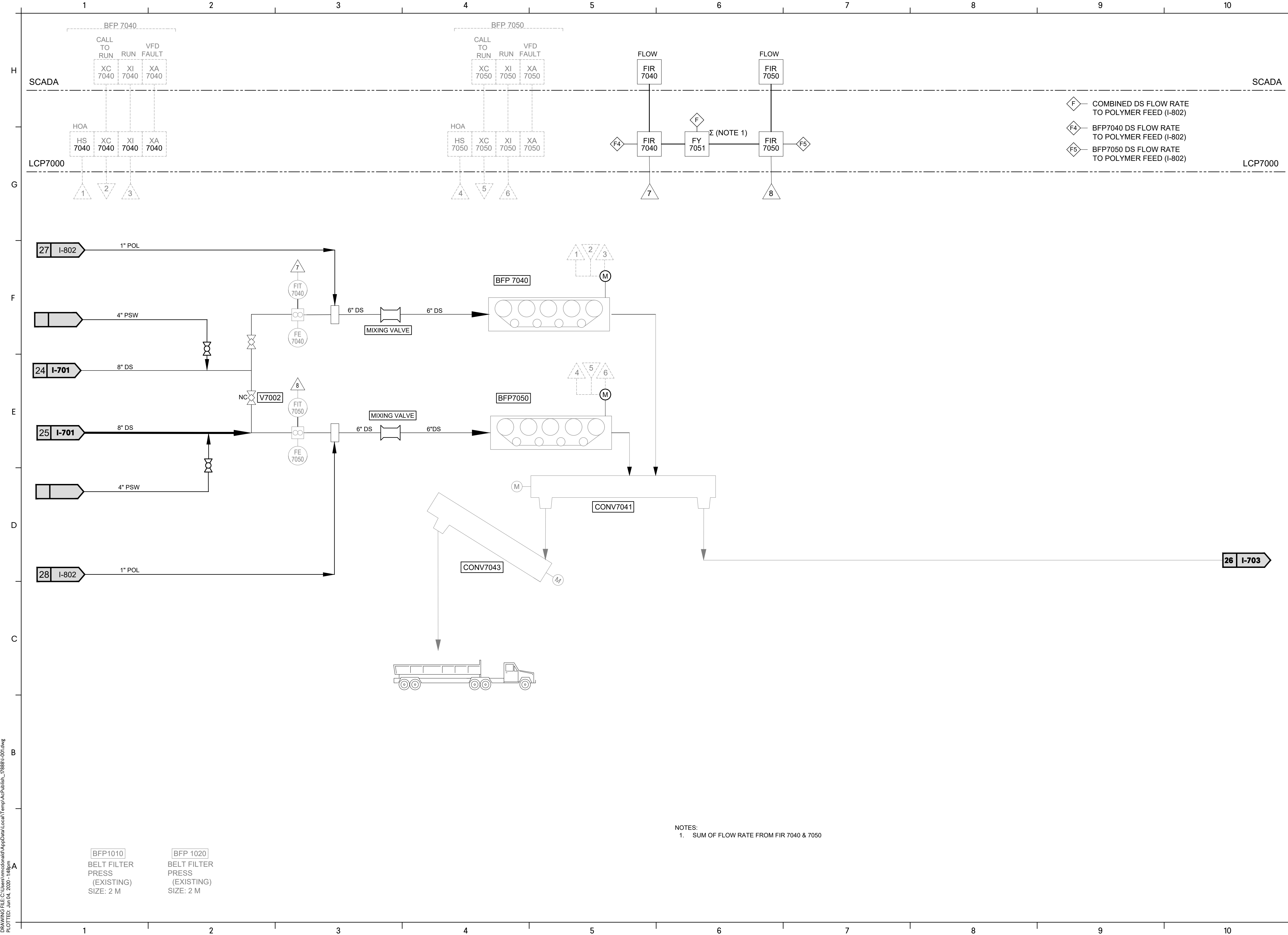
PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

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P&ID - SLUDGE PUMPING

I-701

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ISSUE	DATE
30% SUBMITTAL	09.09.2019
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CONSTRUCTION SUBMITTAL	06.15.2020

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PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

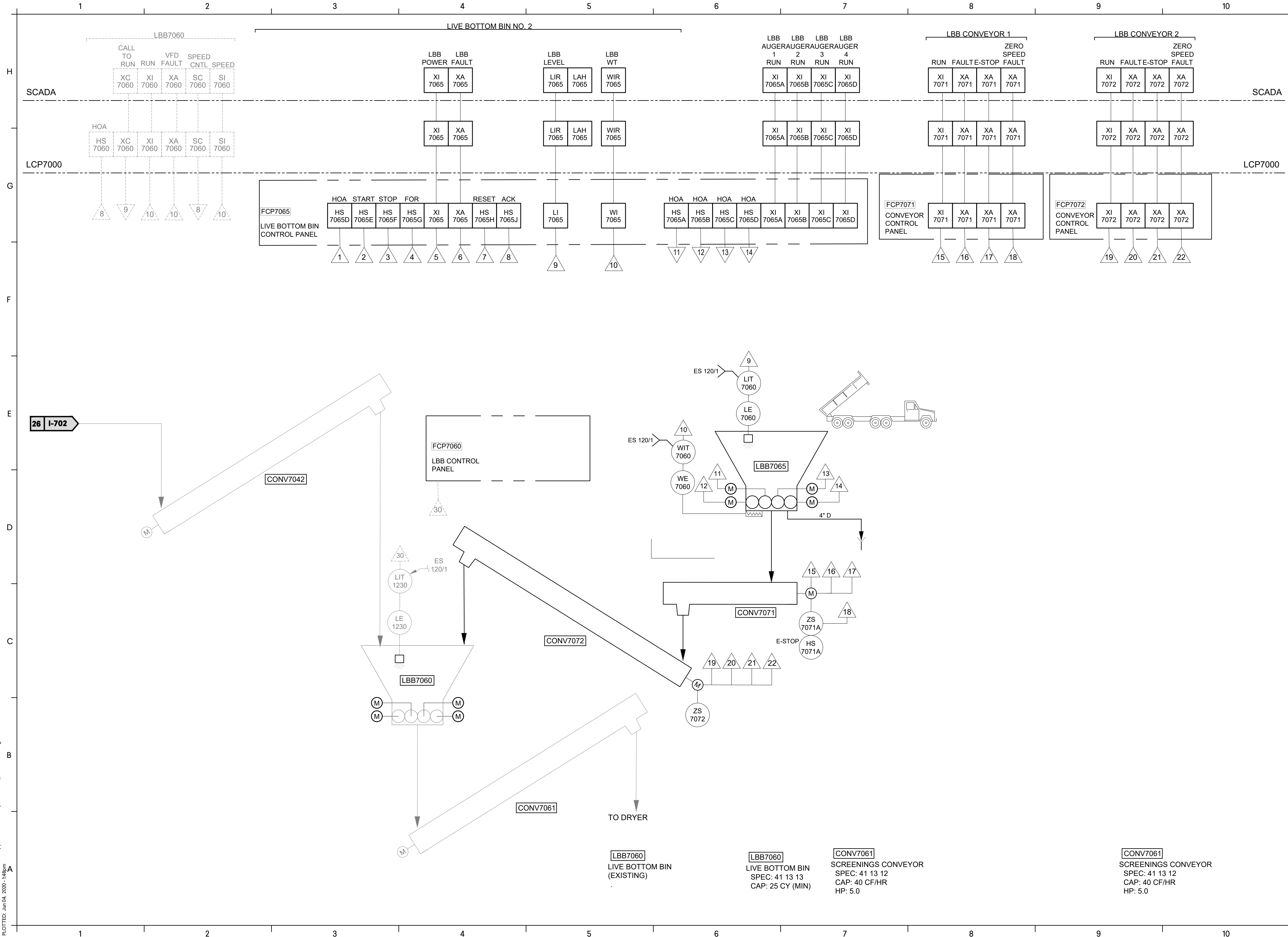


P&ID - BELT FILTER PRESS

I-702

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PLOTTED: Jan 04, 2020 1:08pm



LBB7060
LIVE BOTTOM BIN
(EXISTING)

LBB7060
LIVE BOTTOM BIN
SPEC: 41 13 13
CAP: 25 CY (MIN)

CONV7061
SCREENINGS CONVEYOR
SPEC: 41 13 12
CAP: 40 CF/HR
HP: 5.0

CONV7061
SCREENINGS CONVEYOR
SPEC: 41 13 12
CAP: 40 CF/HR
HP: 5.0

P&ID - SLUDGE UNLOADING

I-703

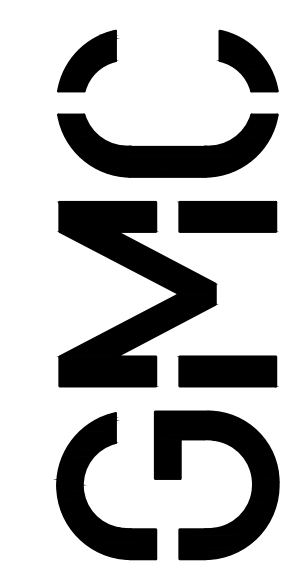
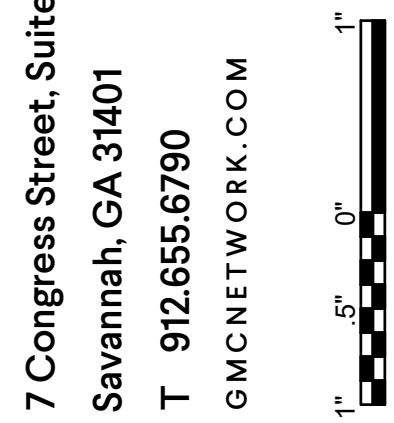
**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

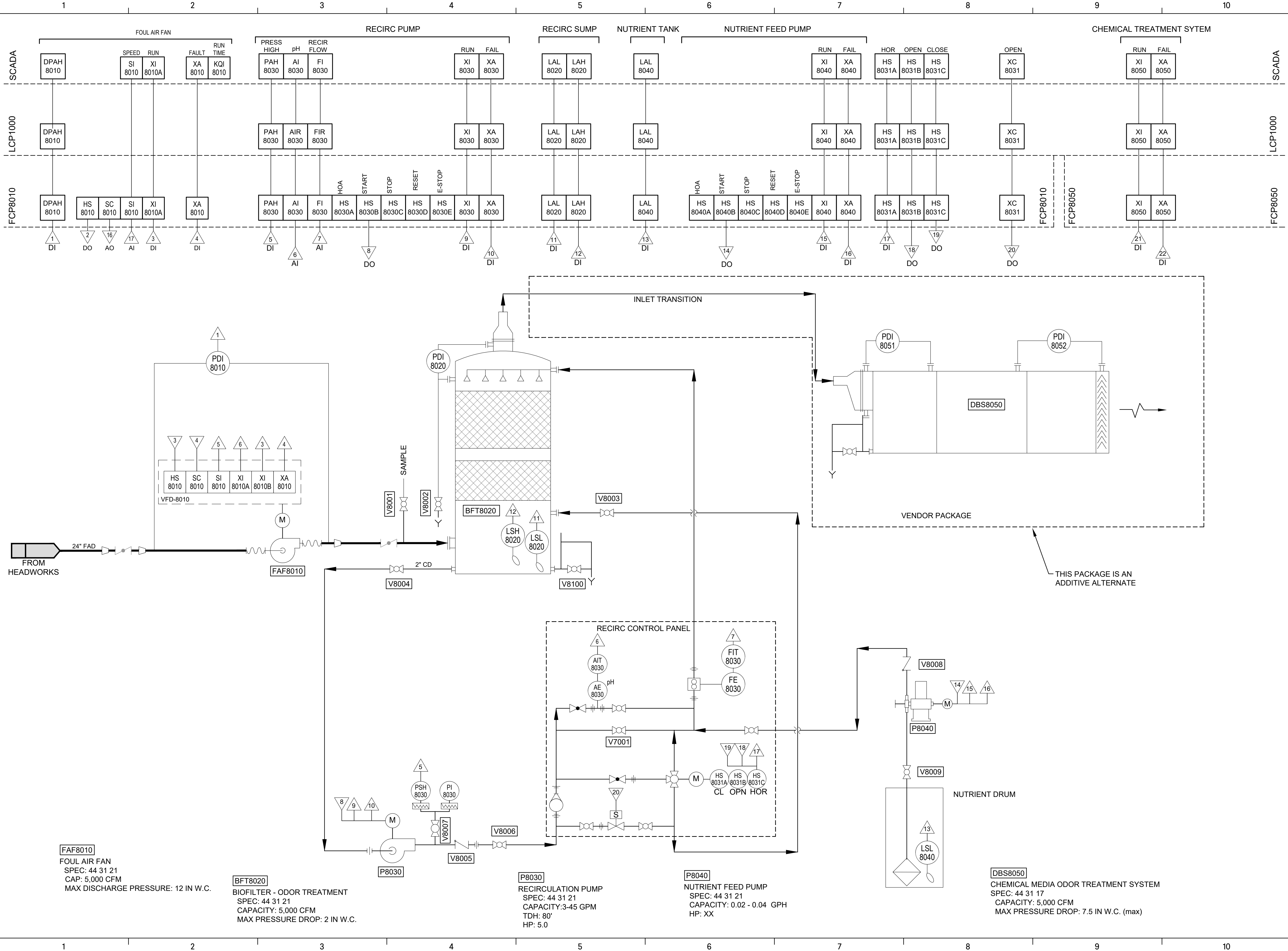


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ISSUE	DATE
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ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



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PLOTTED: Jun 15, 2020 - 4:07 PM



FAF8010
FOUL AIR FAN
SPEC: 44 31 21
CAP: 5,000 CFM
MAX DISCHARGE PRESSURE: 12 IN W.C.

BFT8020
BIOFILTER - ODOR TREATMENT
SPEC: 44 31 21
CAPACITY: 5,000 CFM
MAX PRESSURE DROP: 2 IN W.C.

P8030
RECIRCULATION PUMP
SPEC: 44 31 21
CAPACITY: 3-45 GPM
TDH: 80'
HP: 5.0

P8040
NUTRIENT FEED PUMP
SPEC: 44 31 21
CAPACITY: 0.02 - 0.04 GPH
HP: XX

DBS8050
CHEMICAL MEDIA ODOR TREATMENT SYSTEM
SPEC: 44 31 17
CAPACITY: 5,000 CFM
MAX PRESSURE DROP: 7.5 IN W.C. (max)

THIS PACKAGE IS AN ADDITIVE ALTERNATE

P&ID - CHEMICAL FEED SYSTEM

I-801

2019 WPCF REHABILITATION ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

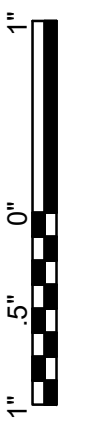
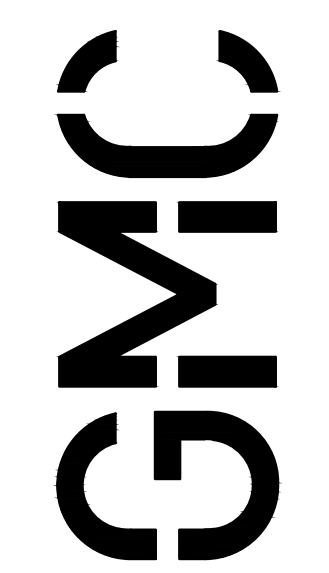
BGJWSC Project No. 906
GMC Project #CSAV190007



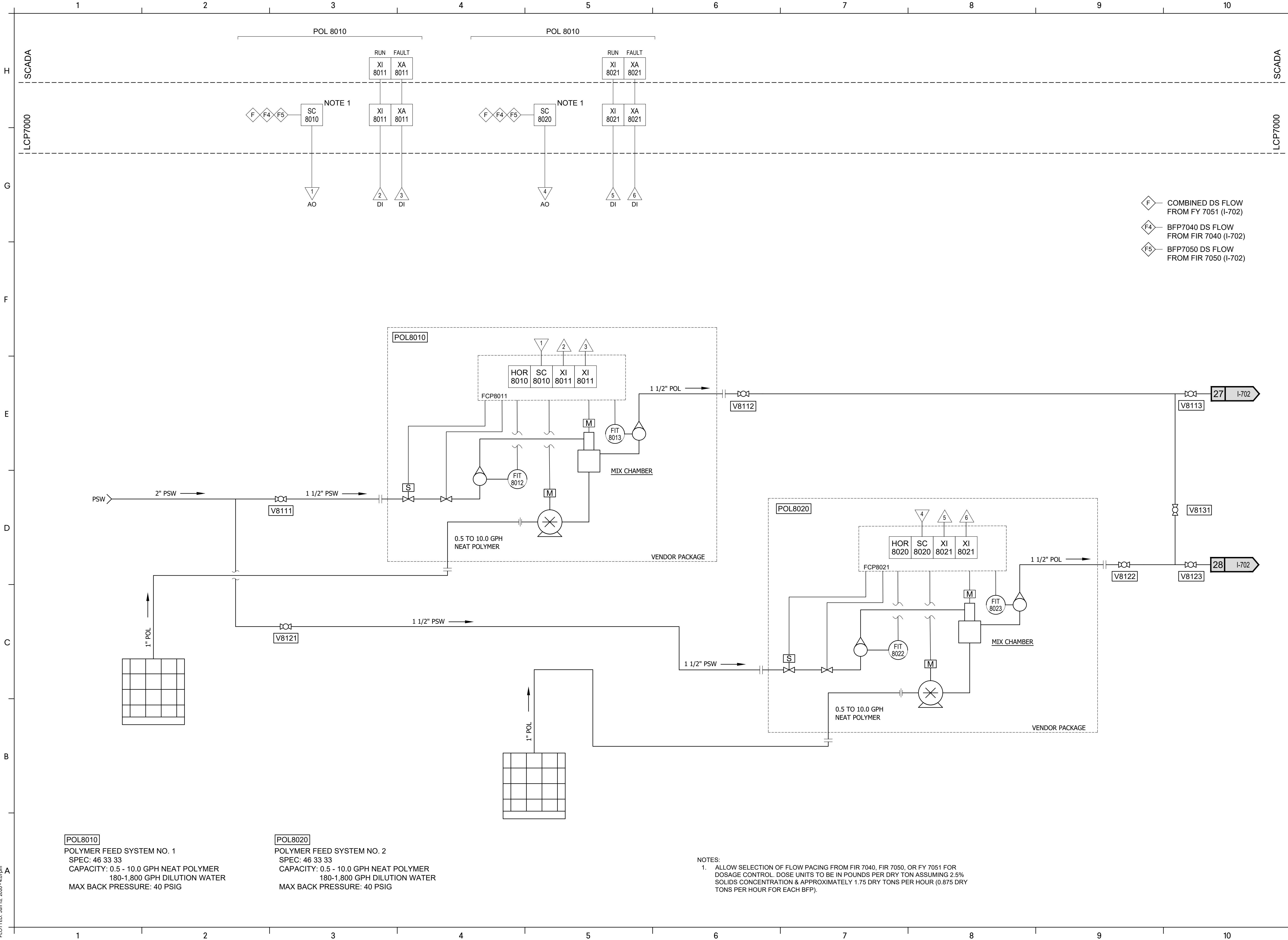
ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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PLOTTED: Jun 18, 2020 - 4:07 PM



- COMBINED DS FLOW FROM FY 7051 (I-702)
- BFP7040 DS FLOW FROM FIR 7040 (I-702)
- BFP7050 DS FLOW FROM FIR 7050 (I-702)

POL8010
POLYMER FEED SYSTEM NO. 1
SPEC: 46 33 33
CAPACITY: 0.5 - 10.0 GPH NEAT POLYMER
180-1,800 GPH DILUTION WATER
MAX BACK PRESSURE: 40 PSIG

POL8020
POLYMER FEED SYSTEM NO. 2
SPEC: 46 33 33
CAPACITY: 0.5 - 10.0 GPH NEAT POLYMER
180-1,800 GPH DILUTION WATER
MAX BACK PRESSURE: 40 PSIG

- NOTES:
1. ALLOW SELECTION OF FLOW PACING FROM FIR 7040, FIR 7050, OR FY 7051 FOR DOSAGE CONTROL. DOSE UNITS TO BE IN POUNDS PER DRY TON ASSUMING 2.5% SOLIDS CONCENTRATION & APPROXIMATELY 1.75 DRY TONS PER HOUR (0.875 DRY TONS PER HOUR FOR EACH BFP).

**P&ID - BFP
POLYMER FEED**

I-802

**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

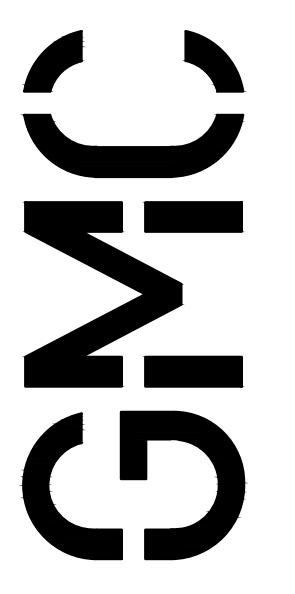
Project No. 906
GMC Project #CSAV190007



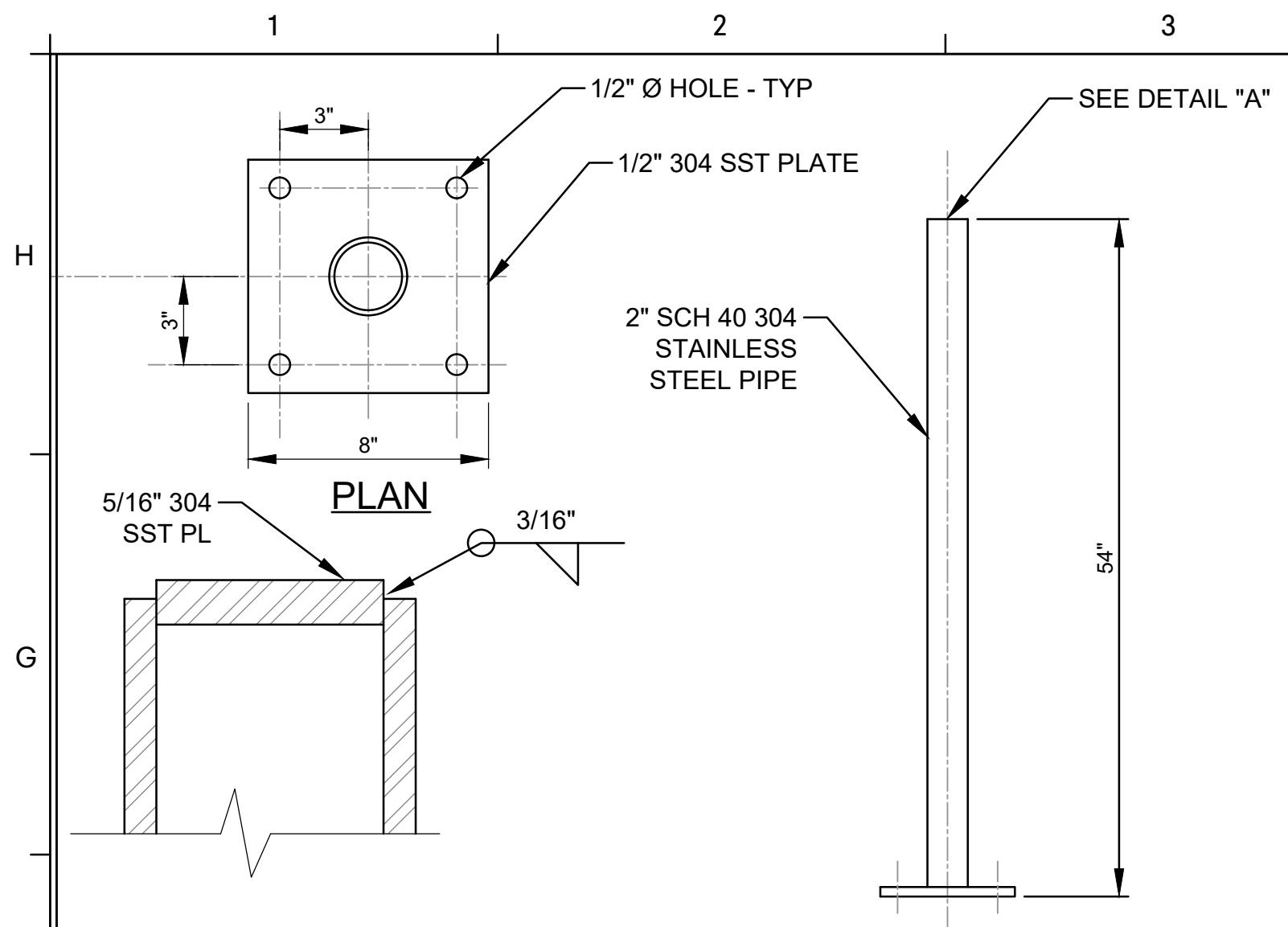
ISSUE	DATE
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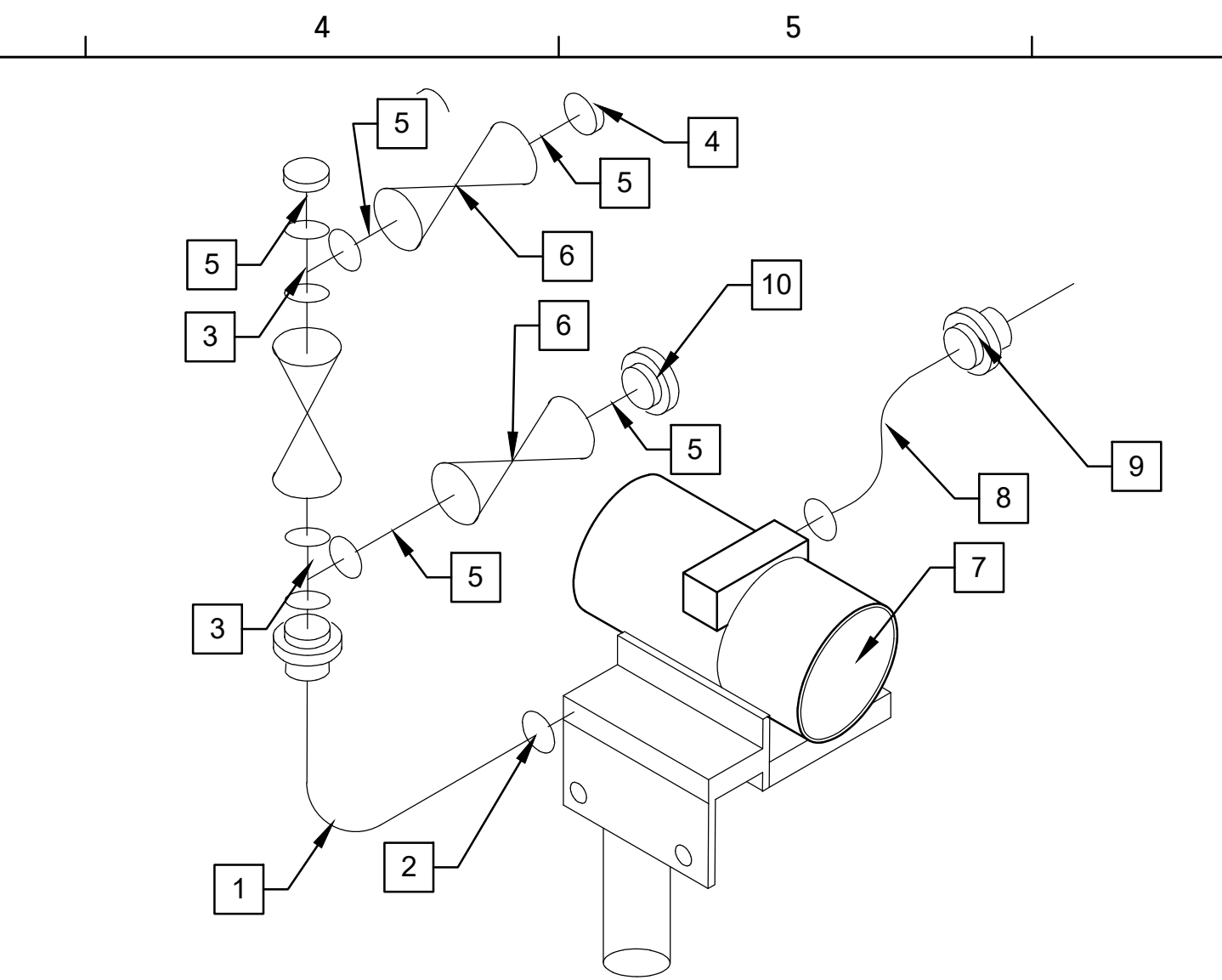
PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ



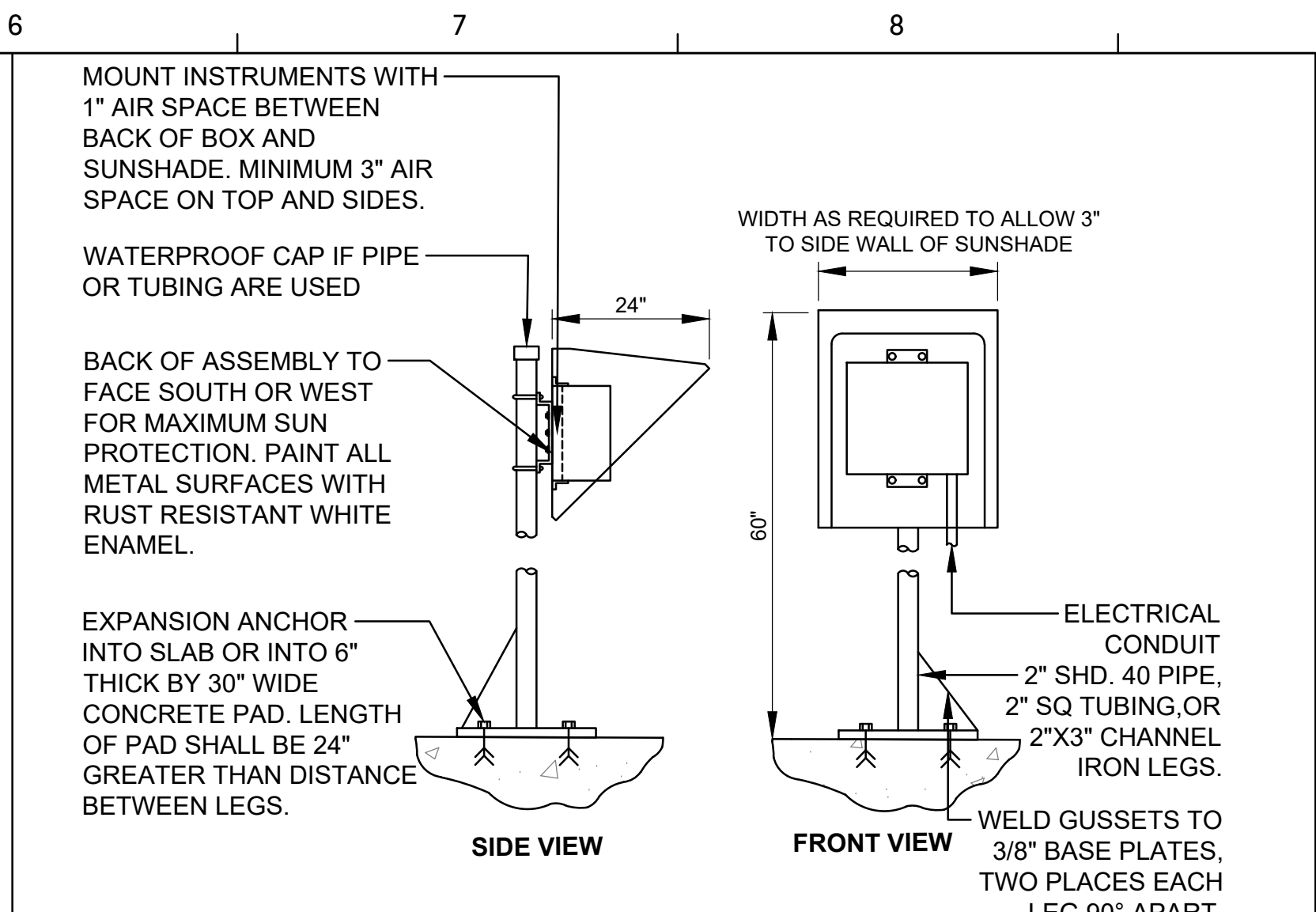
I
H
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1 FLOOR MOUNT - SINGLE INSTRUMENT
 I-901 SCALE: NOT TO SCALE

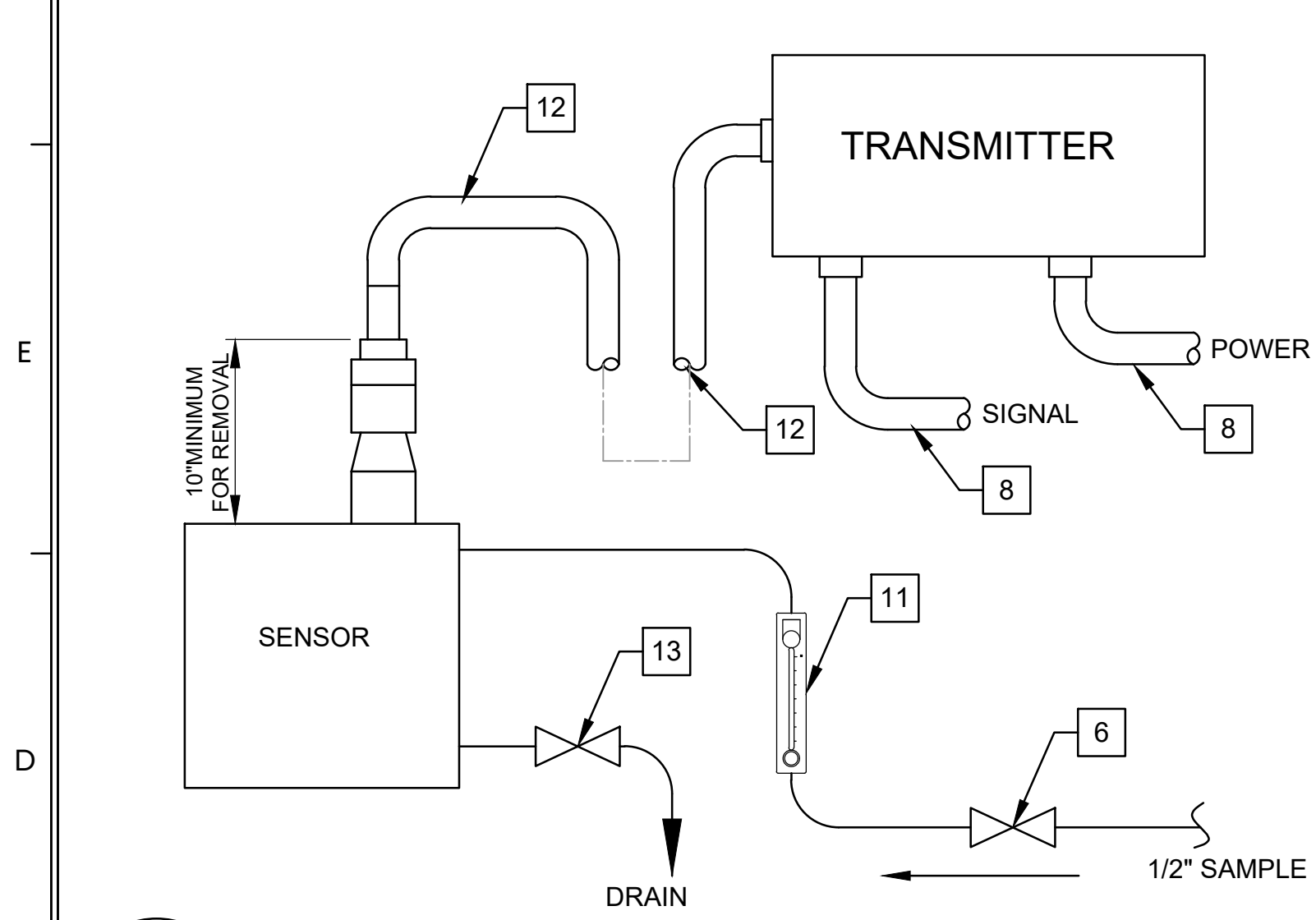


2 PRESSURE TRANSMITTER
 I-901 SCALE: NOT TO SCALE

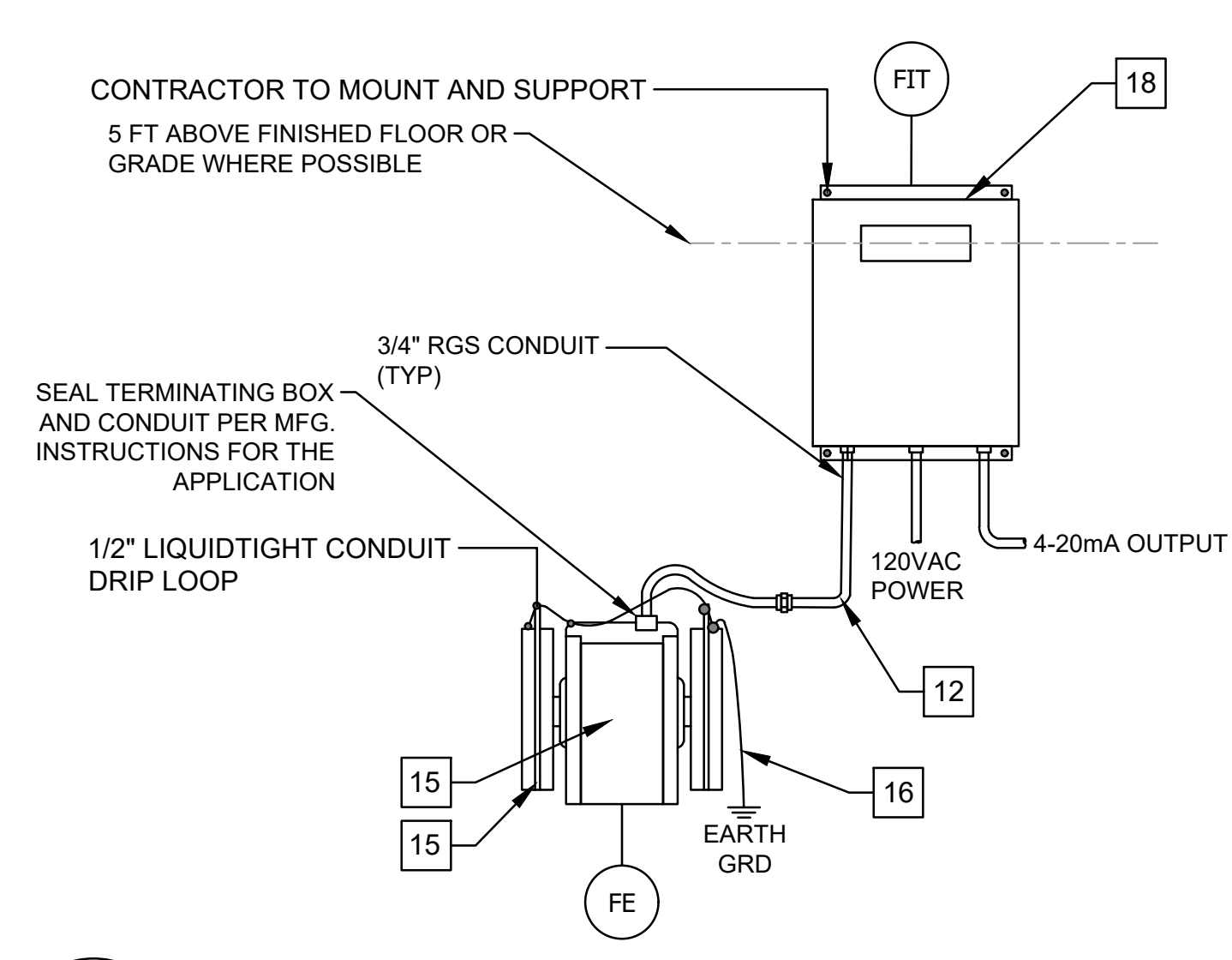


3 OUTDOOR INSTRUMENT MOUNT
 I-901 SCALE: NOT TO SCALE

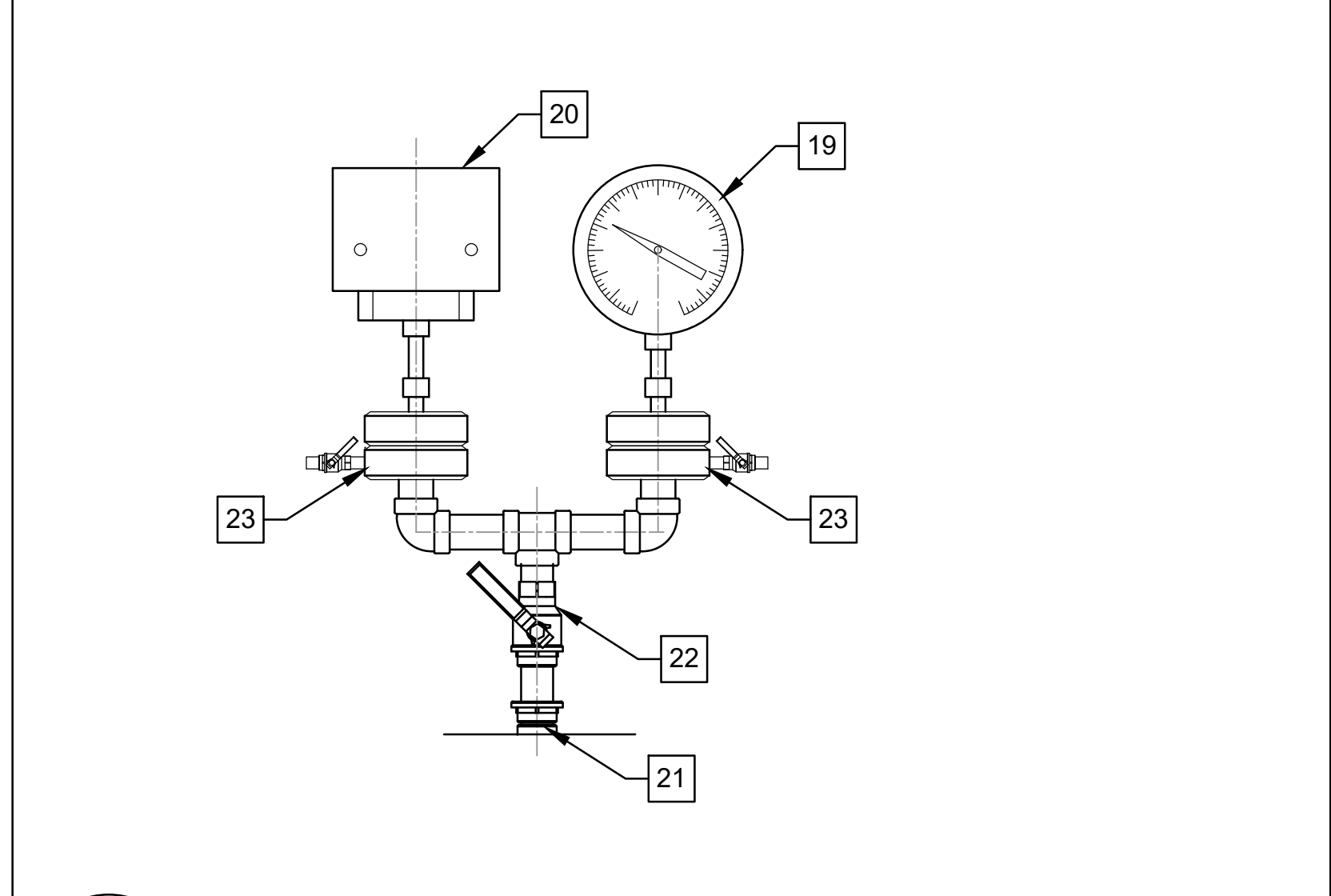
- EQUIPMENT NOTES #**
- 3/8" INSTRUMENT TUBING
 - 3/8" TUBING TO 1/2" NPT ADAPTER
 - 1/2" TEE
 - 1/2" PLUG
 - 1/2" SCH 80 PIPE NIPPLE
 - 1/2" VALVE
 - PRESSURE TRANSMITTER
 - 3/4" FLEXIBLE CONDUIT WITH STRAIGHT CONNECTORS
 - 3/4" CONDUIT CONNECTOR
 - 1/2" NPT HALF COUPLING PROCESS CONNECTION
 - ROTAMETER
 - SENSOR CABLE BY INST VENDOR
 - NEEDLE VALVE
 - 3-VALVE MANIFOLD
 - GROUNDING RING ON ALL CONNECTING PIPE
 - #8 GROUNDING CONDUCTOR TO GROUND BUS
 - MAGNETIC FLOW METER - FLOW ELEMENT
 - MAGNETIC FLOW METER - FLOW TRANSMITTER
 - PRESSURE GAUGE
 - PRESSURE SWITCH
 - 1 1/4" NPT HALF COUPLING PROCESS CONNECTION
 - 1" SST BALL VALVE
 - STAINLESS STEEL DIAPHRAGM SEAL W/ 1/4" STAINLESS STEEL BALL VALVE
 - 3/4" STAINLESS STEEL CONDUIT
 - BLIND FLANGE - MATCH TANK NOZZLE BOLT PATTERN. STAINLESS STEEL NUTS, BOLTS & WASHERS



4 ANALYTIC INSTRUMENT SCHEMATIC
 I-901 SCALE: NOT TO SCALE

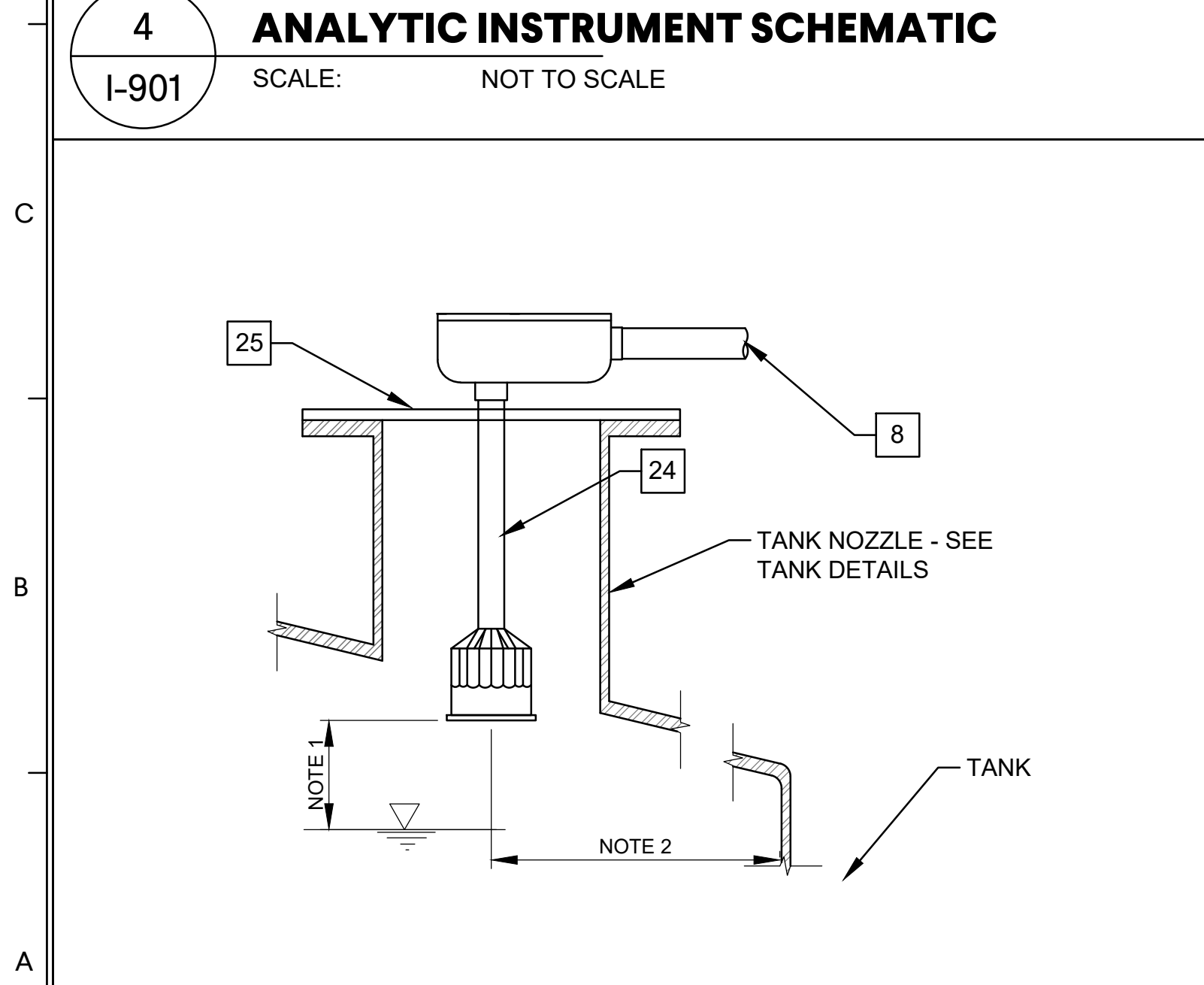


5 MAGNETIC FLOWMETER
 I-901 SCALE: NOT TO SCALE

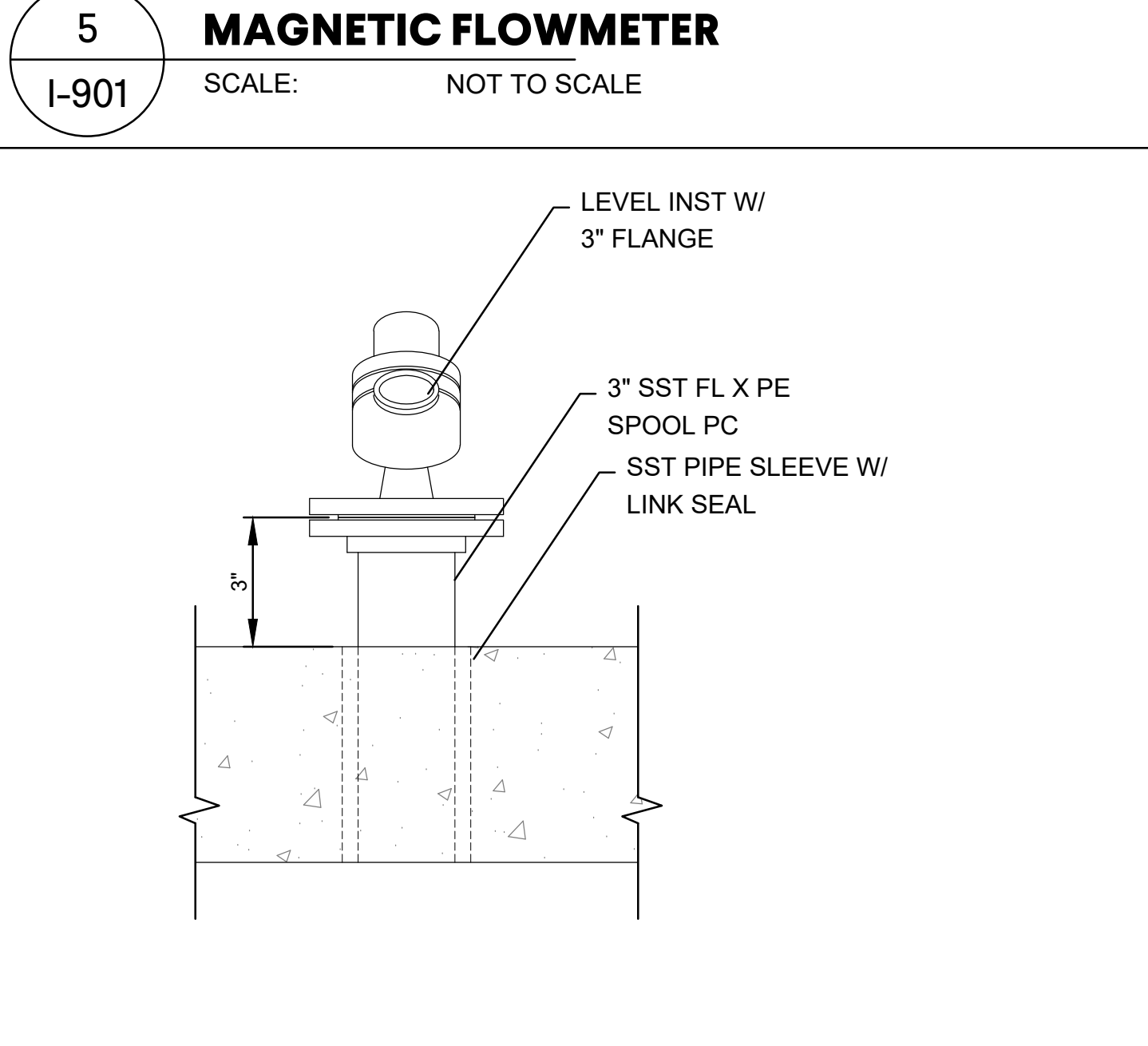


6 PRESSURE GAUGE & SWITCH
 I-901 SCALE: NOT TO SCALE

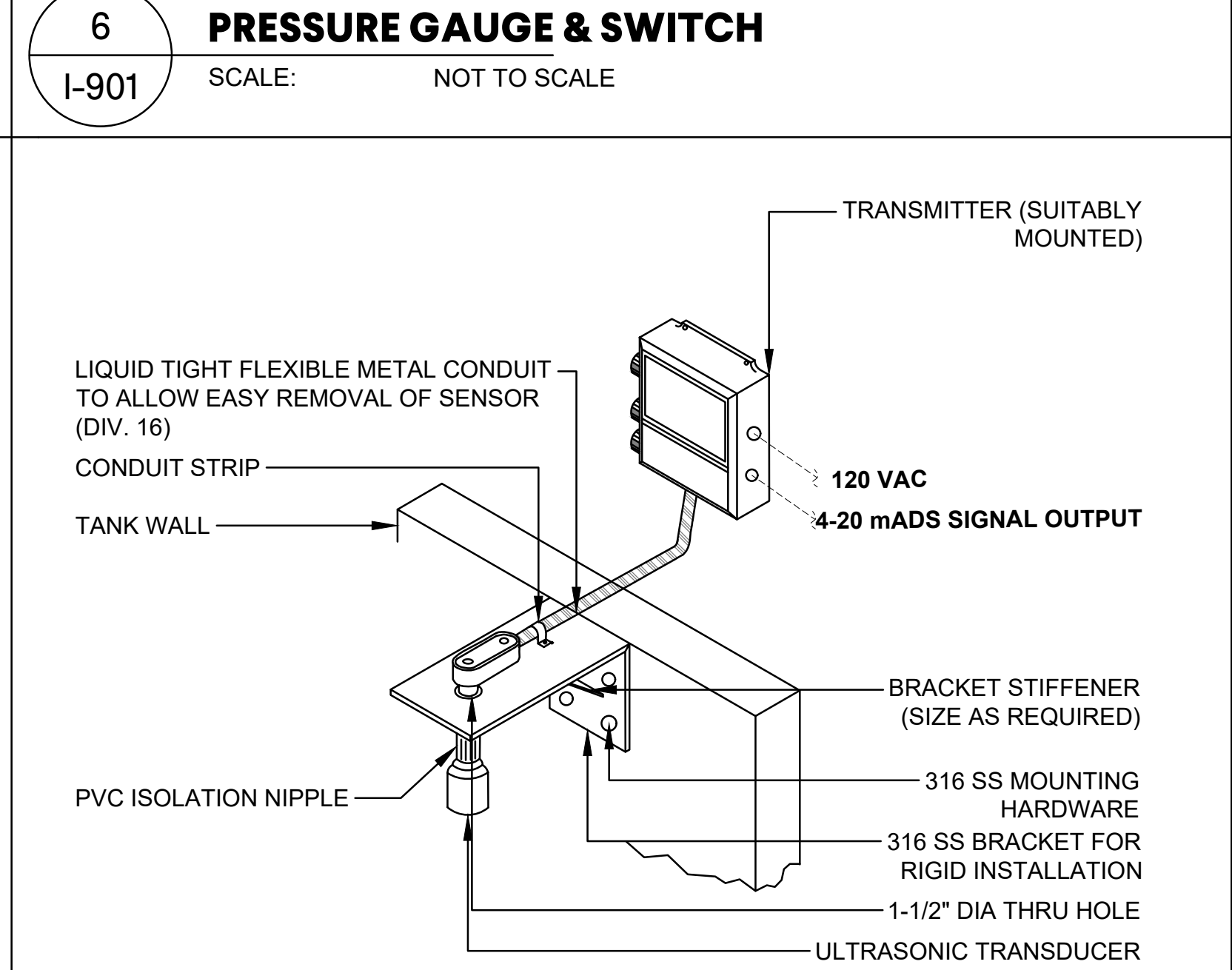
- RADAR/ ULTRASONIC LEVEL TRANSDUCER NOTES:**
- THIS DISTANCE MUST BE GREATER THAN THE TRANSDUCER BLANKING DISTANCE.
 - HORIZONTAL LOCATION PER MANUFACTURERS INSTRUCTIONS. AVOID OBSTRUCTIONS & MAXIMIZE RETURN SIGNAL.
- PRESSURE TRANSMITTER NOTES:**
- DETAIL SHOWN IS FOR LIQUID SERVICE. FOR PROCESS GAS/SERVICE THE TRANSMITTER WOULD BE MOUNTED ABOVE THE PROCESS PIPE.
 - DIFFERENTIAL PRESSURE TRANSMITTER MOUNTING IS SIMILAR EXCEPT FOR 3 VALVE MANIFOLD.



7 TANK-MOUNTED LEVEL DEVICE
 I-901 SCALE: NOT TO SCALE



8 SLAB-MOUNTED LEVEL DEVICE
 I-901 SCALE: NOT TO SCALE



9 RADAR/ULTRASONIC LEVEL - OPEN CHANNEL/TANK
 I-901 SCALE: NOT TO SCALE

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2019 WPCF REHABILITATION ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BG-WSC Project No. 906
 GMC Project #CSAV190007

INSTRUMENTATION DETAILS

I-901

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCY
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

1-901

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 PLOT FILE: Jun 04, 2020 11:05:58am

INSTRUMENT SCHEDULE (INTEGRATOR PROVIDED)								
TAG NUMBER	SERVICE	DEVICE TYPE	DEVICE OUTPUT TYPE	RANGE/SETPOINT	P&ID	POWER TYPE	SPEC	COMMENTS
FE/FIT 2034	RW	Magnetic Flow Meter	AO	500-3500 gpm	I-201	120 VAC	40 71 13	
LE/LIT 2030	PE	Radar Level Transmitter	AO	0-10 ft	I-201	120 VAC	40 72 24	Input for flow calculation
ZT 2031B	PE	Optical Rotary Shaft Encoder	AO	0-4 ft	I-201		40 72 78	Input for flow calculation
ZT 2032B	PE	Optical Rotary Shaft Encoder	AO	0-4 ft	I-201		40 72 78	Input for flow calculation
ZT 2033B	PE	Optical Rotary Shaft Encoder	AO	0-4 ft	I-201		40 72 78	Input for flow calculation
FE/FIT 3010	RAS	Magnetic Flow Meter	AO	500-3500 gpm	I-301	120VAC	40 71 13	Aeration Basin No. 1 RAS flow rate
FE/FIT 3020	RAS	Magnetic Flow Meter	AO	500-3500 gpm	I-301	120VAC	40 71 13	Aeration Basin No. 2 RAS flow rate
FE/FIT 3030	RAS	Magnetic Flow Meter	AO	500-3500 gpm	I-301	120VAC	40 71 13	Aeration Basin No. 3 RAS flow rate
FE/FIT 4100	RAS	Ultrasonic Flow Meter (in-line)	AO	500-3500 gpm	I-401	120VAC		Match Existing Dynasonic MODEL: DDFXD2-A1NA-NN

P&ID - INSTRUMENT SCHEDULE

I-902



2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

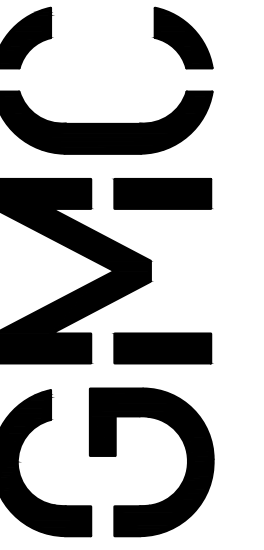
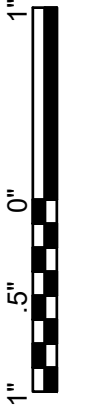
BGJWSC Project No. 906
 GMC Project #CSAV190007

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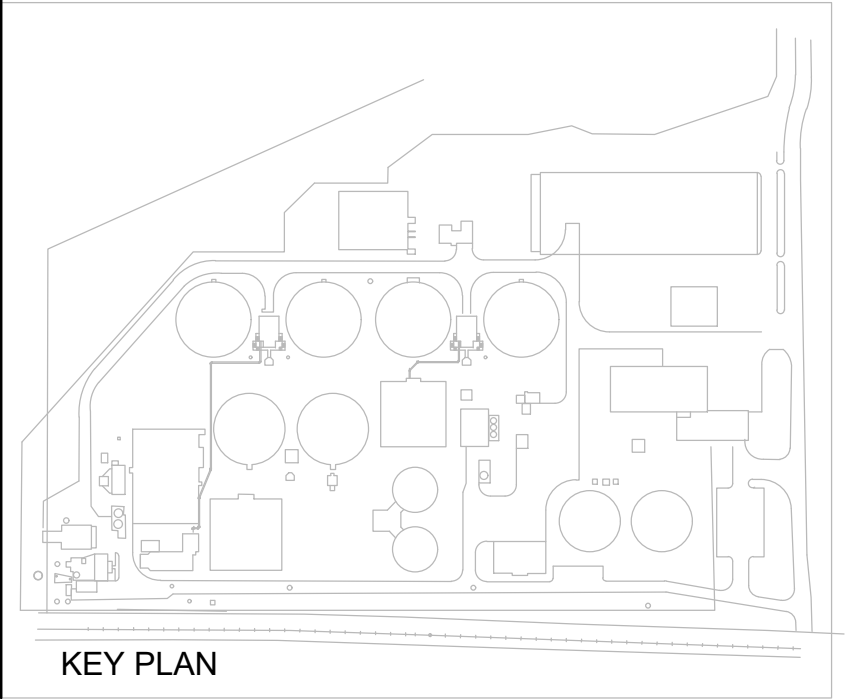
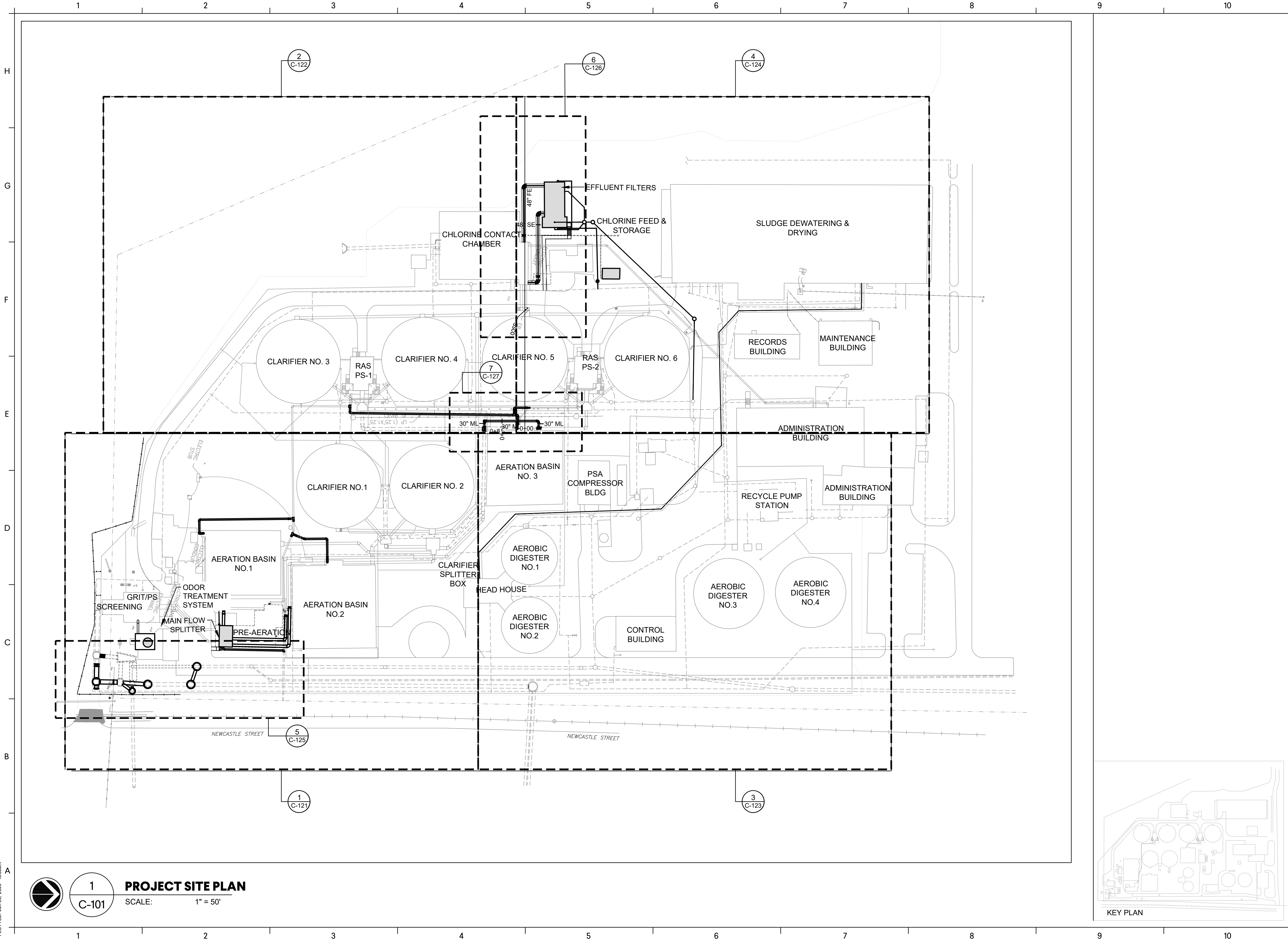
09.09.2019
 12.16.2019
 03.12.2020
 06.15.2020

ISSUE DATE

30% SUBMITTAL
 70% SUBMITTAL
 100% SUBMITTAL
 CONSTRUCTION SUBMITTAL
 PROJECT MANAGER:
 ENGINEER:
 DESIGNER:
 DRAWN BY:



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PLOTTED: Jun 05, 2020 - 10:33am



PROJECT SITE PLAN
C-101
 SCALE: 1" = 50'

**PROCESS PIPING
 SITE PLAN - KEY**



**2019 WPCF REHABILITATION
 ACADEMY CREEK**
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

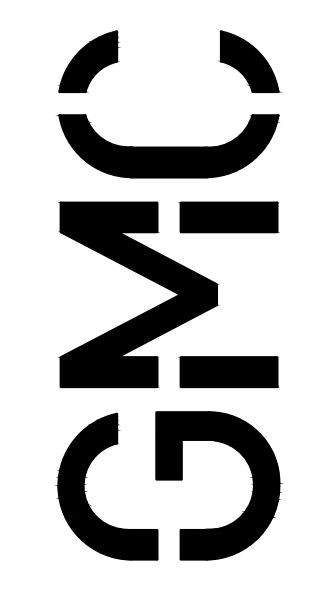
BGJWSC Project No. 906
 GMC Project #CSAV190007

ISSUE DATE

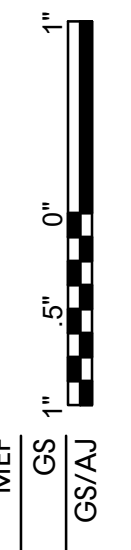
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

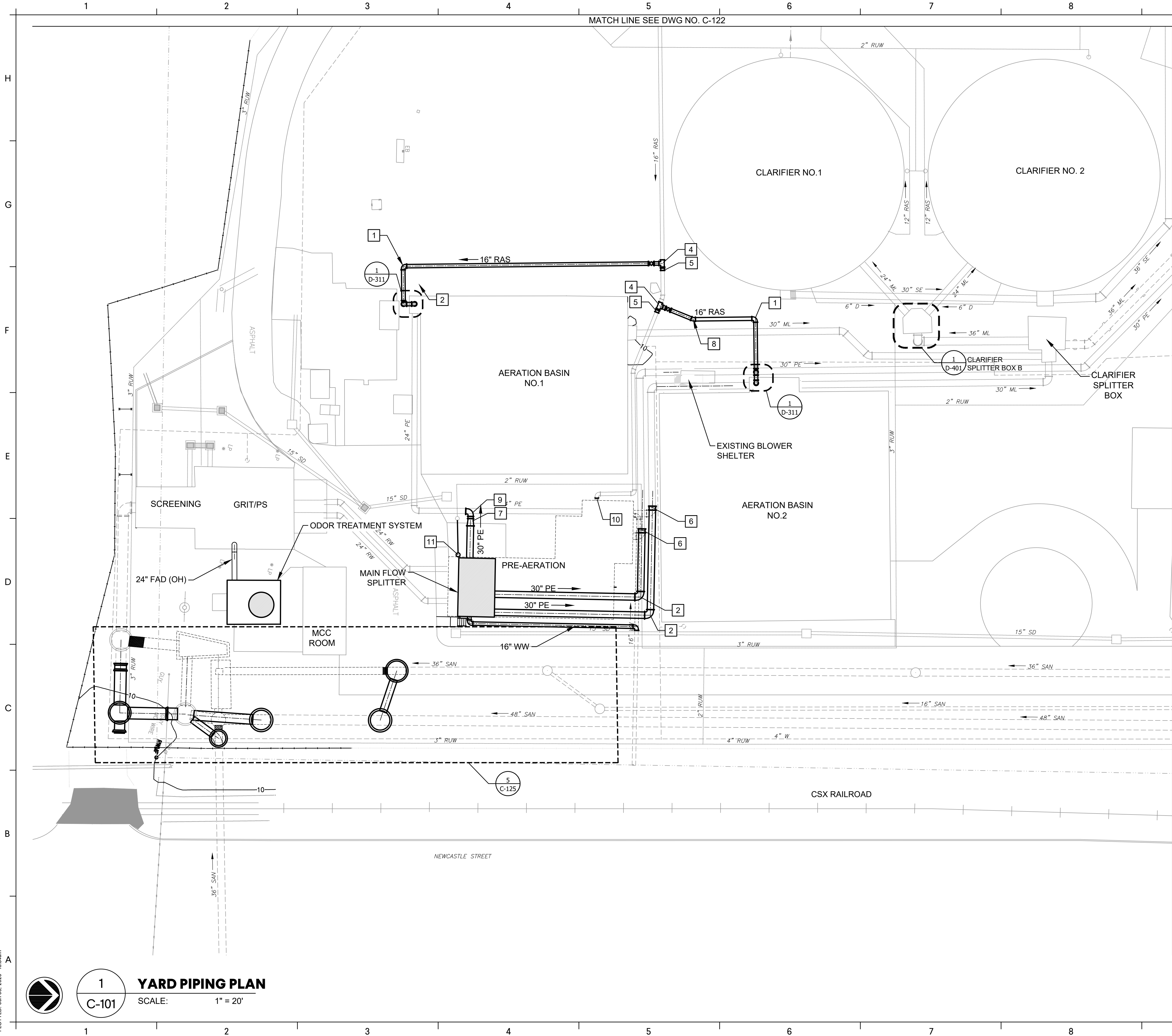
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C-101



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PLOTTED: Jun 05, 2020 - 10:34am



- KEY NOTES: #
1. 16" MJ 90° BEND (RESTRAINED)
 2. 30" MJ 90° BEND
 3. 30" MJ 45° BEND
 4. 16" MJ TEE (RESTRAINED)
 5. 16" MJ SLEEVE
 6. 30" MJ SLEEVE - CONNECT TO EXISTING
 7. 30" X 24" MJ ECCENTRIC REDUCER - FLAT ON TOP
 8. 16" MJ 22-1/2° BEND (RESTRAINED)
 9. 24" MJ 90° BEND
 10. 16" MJ PLUG - RESTRAINED
 11. EXTEND 2" RUW TO MAIN SPLITTER

MATCH LINE SEE DWG NO. C-123

MATCH LINE SEE DWG NO. C-122

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

30% SUBMITTAL 09.09.2019
 70% SUBMITTAL 12.16.2019
 100% SUBMITTAL 03.12.2020
 CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

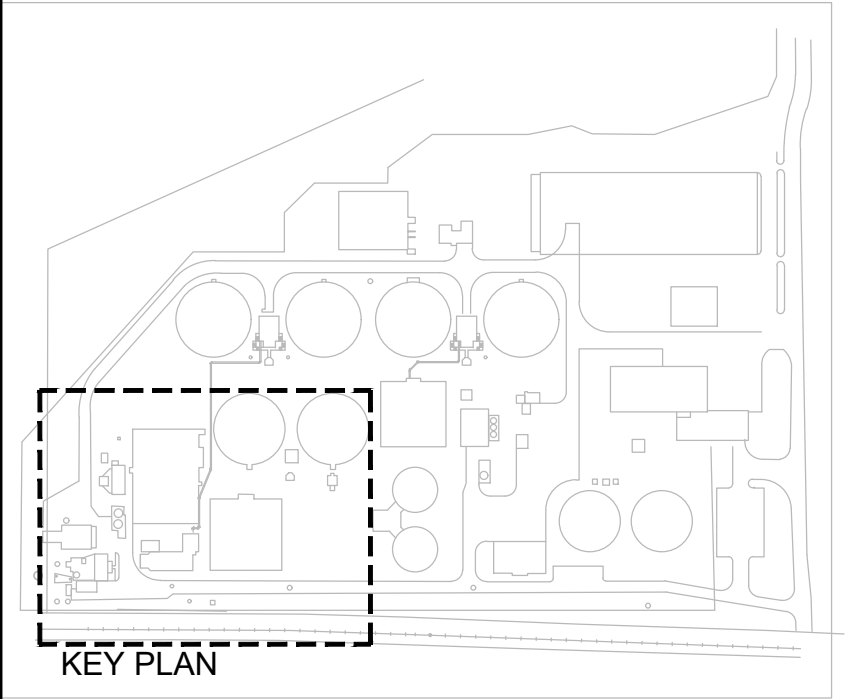
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 G M C N E T W O R K . C O M

BGJWSC Project No. 906
 GMC Project #CSAV190007



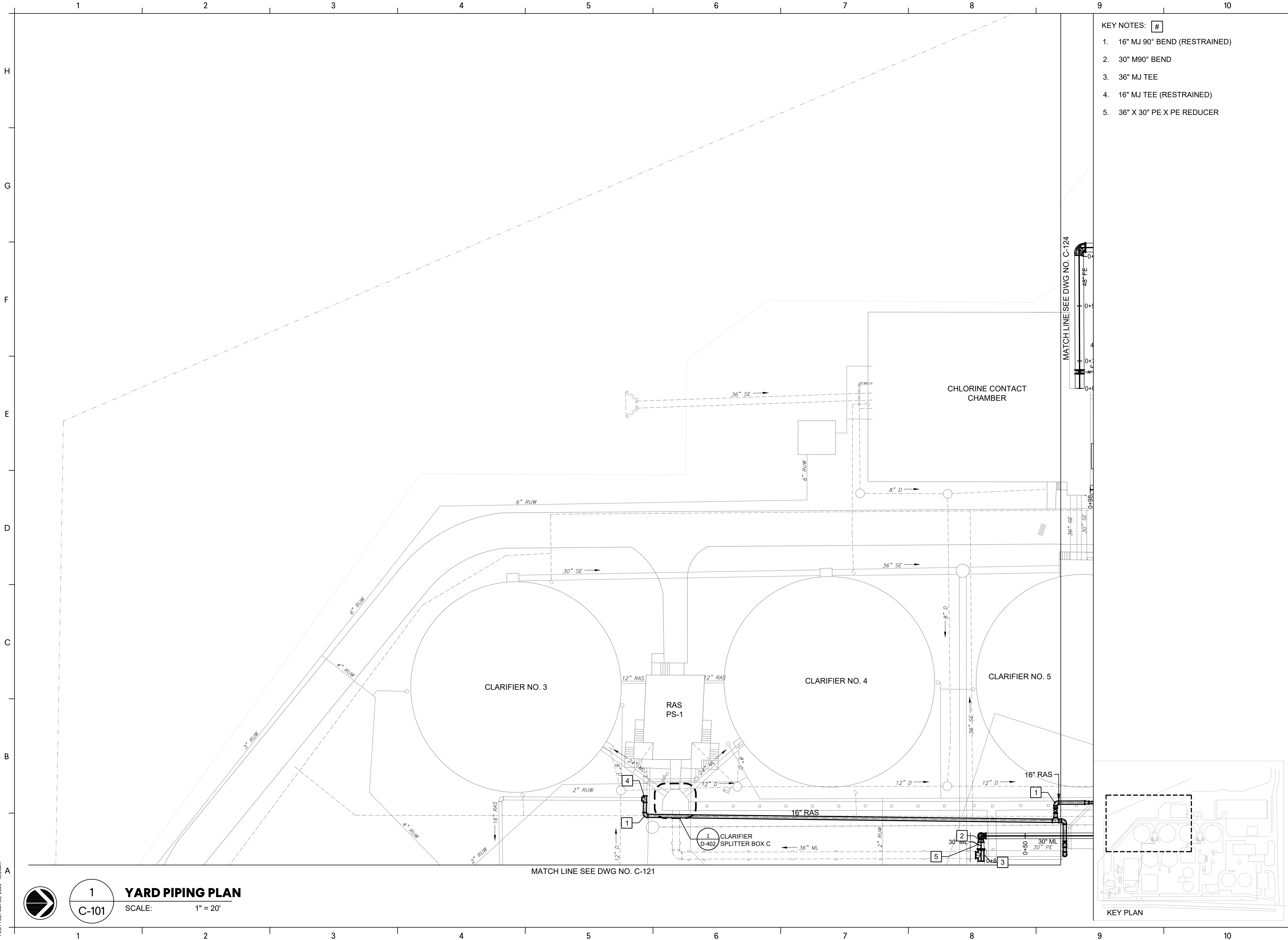
PROCESS PIPING
SITE PLAN - AREA 1

C-121



1
YARD PIPING PLAN
 SCALE: 1" = 20'

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PLOTTED: Jun 05, 2020 - 10:34am



- KEY NOTES: #**
- 16" MJ 90° BEND (RESTRAINED)
 - 30" M90° BEND
 - 36" MJ TEE
 - 16" MJ TEE (RESTRAINED)
 - 36" X 30" PE X PE REDUCER

MATCH LINE SEE DWG NO. C-124

48" FE

36" SE

30" SE

36" SE

8" D

6" RWU

30" SE

36" SE

8" D

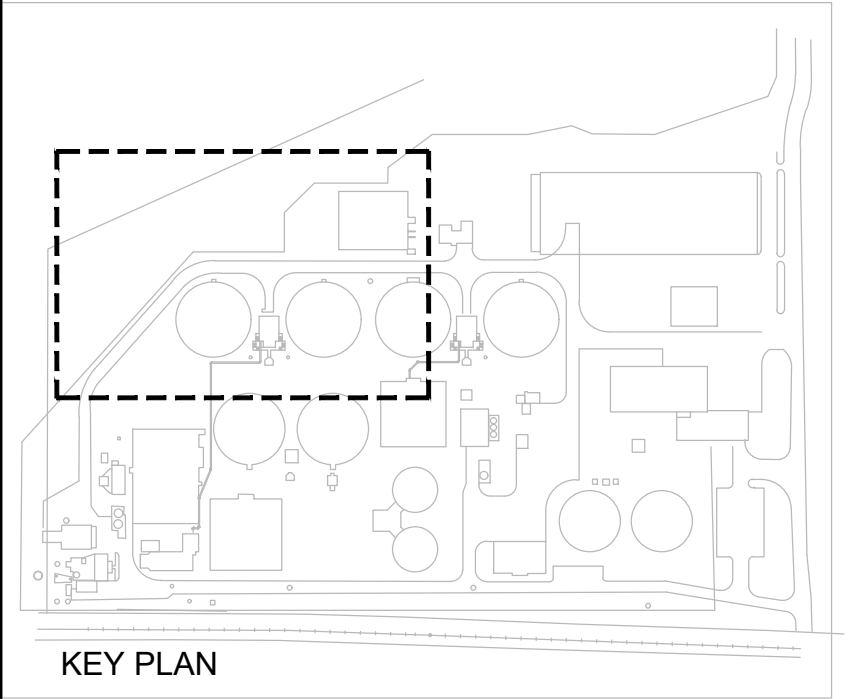
36" SE

30" SE

36" SE

30" SE

1 YARD PIPING PLAN
SCALE: 1" = 20'



2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION


BGJWSC Project No. 906
GMC Project #CSAV190007

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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

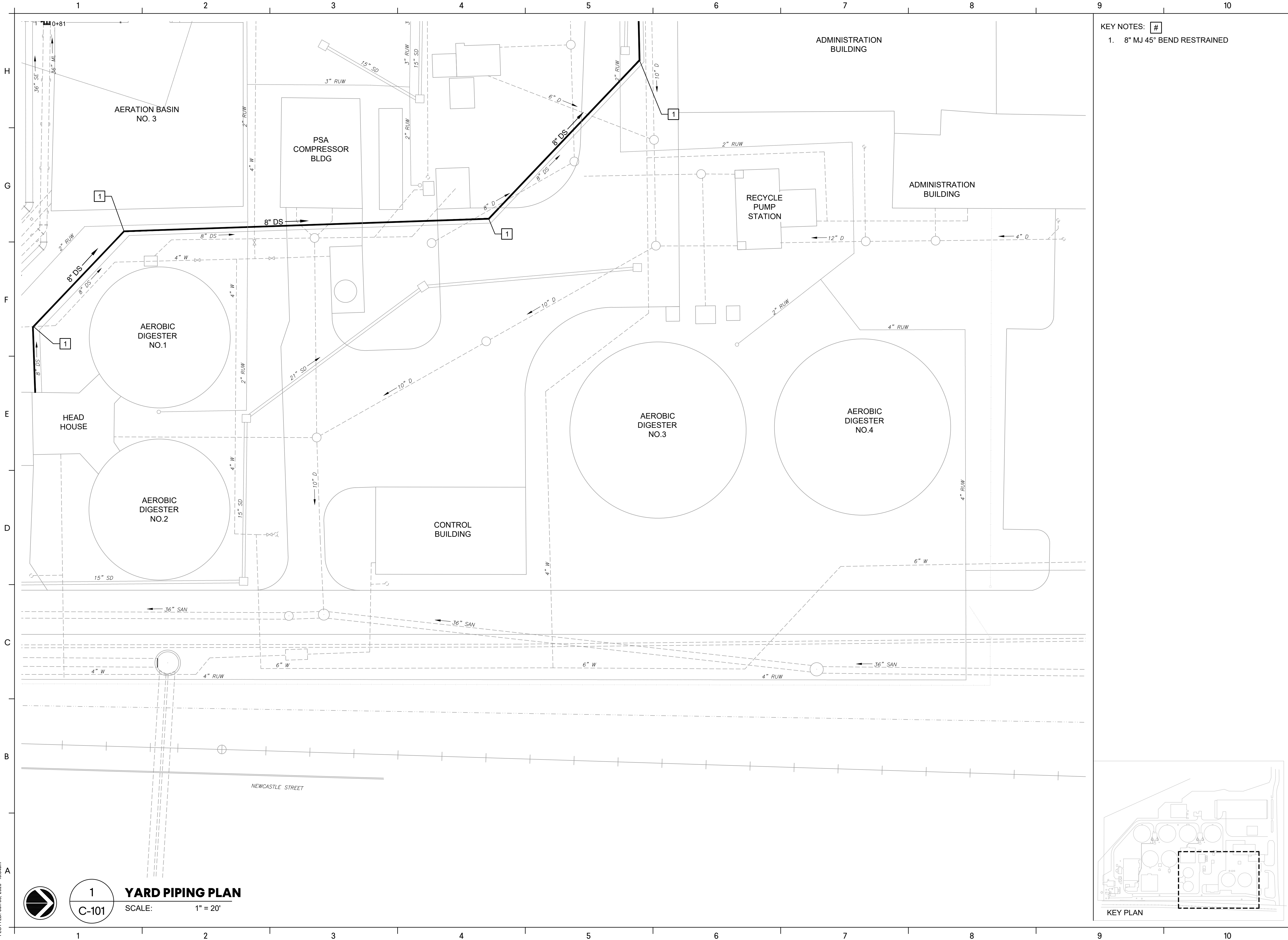


PROFESSIONAL ENGINEER
JAMES C. VANDER

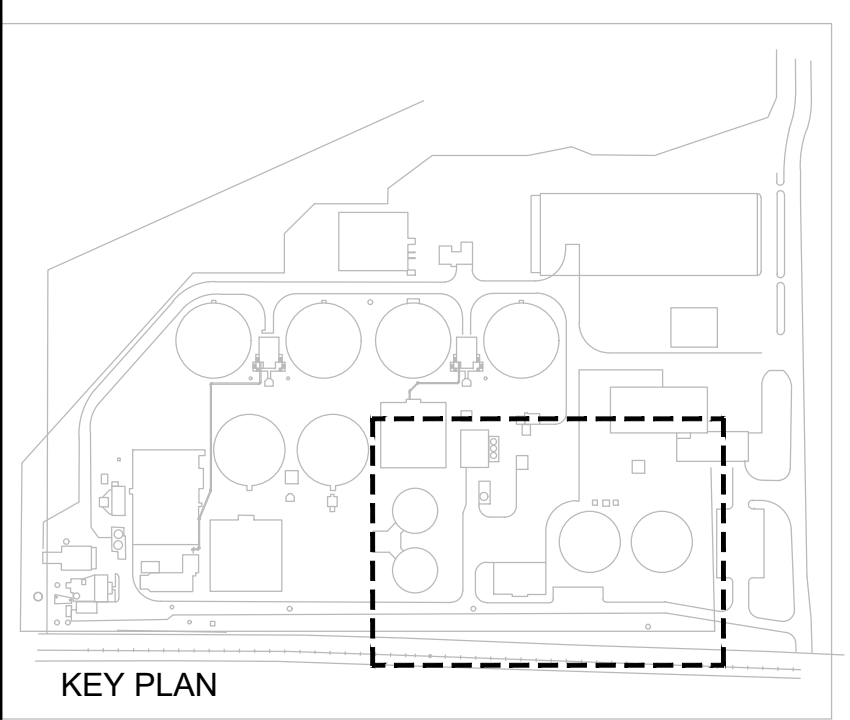
PROCESS PIPING
SITE PLAN - AREA 2

C-122

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PLOTTED: Jun 05, 2020 - 10:34am



KEY NOTES: #
1. 8" MJ 45° BEND RESTRAINED



1
C-101 **YARD PIPING PLAN**
SCALE: 1" = 20'

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

GMC

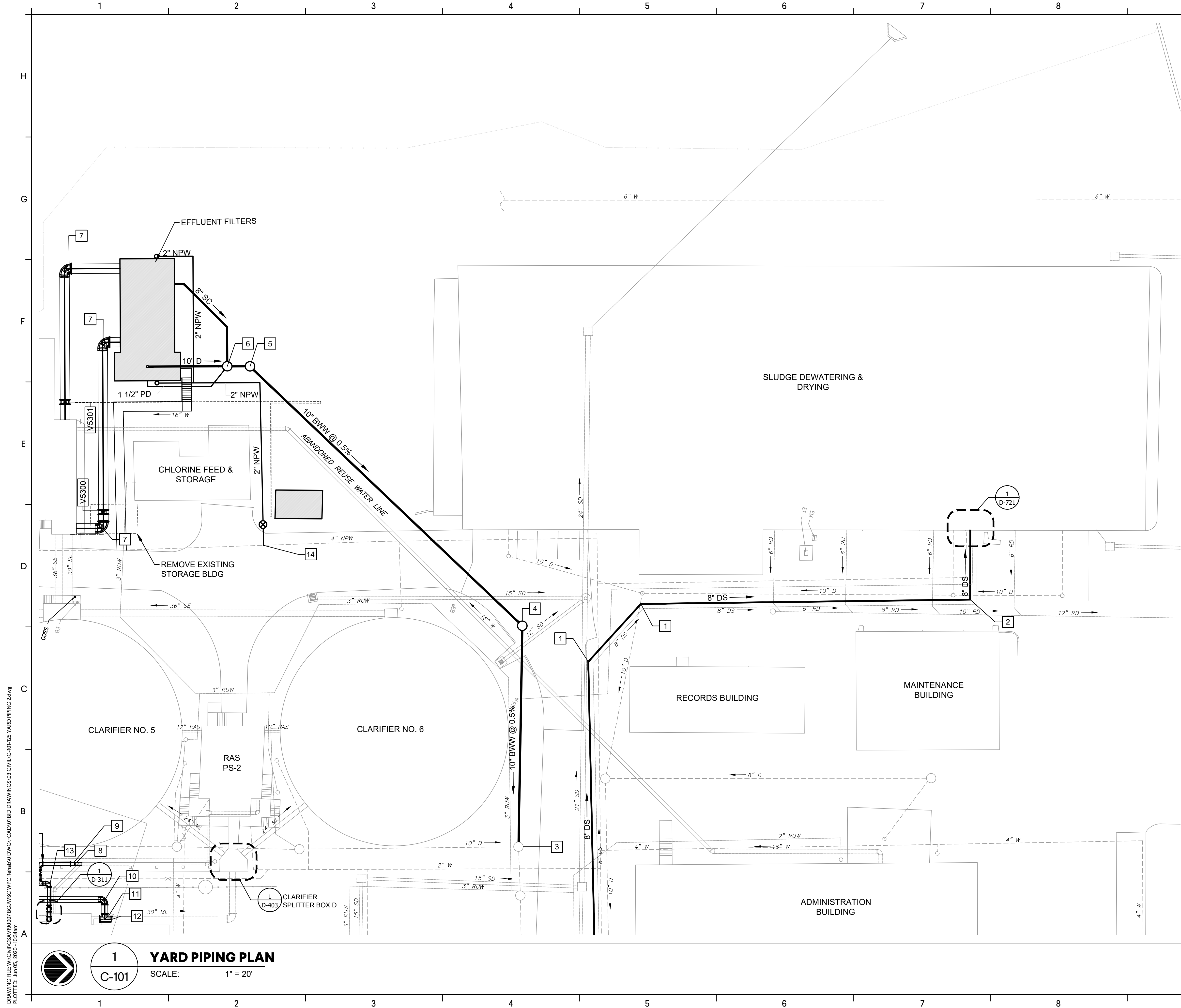
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ISSUE	DATE
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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

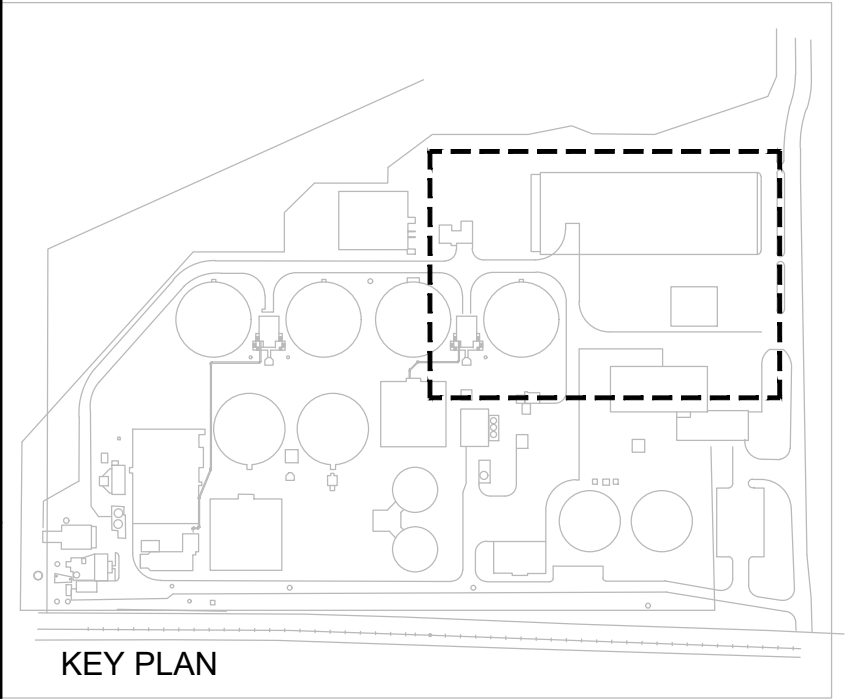
PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

PROCESS PIPING
SITE PLAN - AREA 3

C-123



- KEY NOTES: #
1. 8" MJ 45° BEND (RESTRAINED)
 2. 8" MJ 90° BEND (RESTRAINED)
 3. CONNECT 10" BWW TO EXISTING MANHOLE @ I.E. 5.73
 4. 4'-0"Ø MANHOLE, TOP EL. 9.54± (MATCH PAVEMENT), I.E. 10" BWW IN = 6.30, I.E. 10" BWW OUT = 6.20
 5. 4'-0"Ø MANHOLE, TOP EL. 10.00, I.E. 10" BWW IN = 7.10, I.E. 10" BWW OUT = 7.00
 6. 4'-0"Ø MANHOLE, TOP EL. 10.00, IE 10" BWW IN = 7.20, IE 10" BWW OUT = 7.10, 8" SC IN = 7.40
 7. 48" MJ 90° BEND
 8. CONNECT TO EXISTING 12" RAS LINE
 9. 10" X 12" MJ INCREASER (RESTRAINED)
 10. 30" MJ 90° BEND
 11. 30" MJ TEE
 12. 30" MJ SLEEVE
 13. 16" MJ 90° BEND (RESTRAINED)
 14. CONNECT TO EXISTING 4" NPW W/ 4X2 TAPPING SLEEVE AND VALVE & EXTENWD 2" NPW TO FILTERS



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PLOTTED: Jun 05, 2020 - 10:34am

1
C-101 **YARD PIPING PLAN**
SCALE: 1" = 20'

2019 WPCF REHABILITATION
ACADEMY CREEK

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

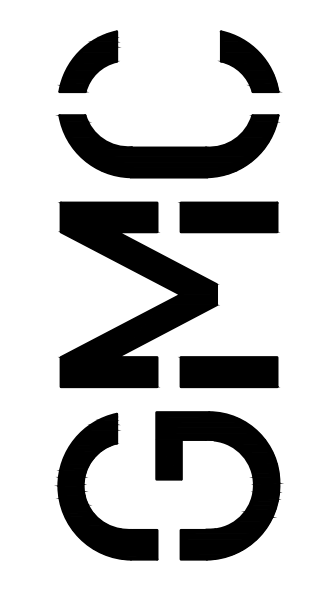
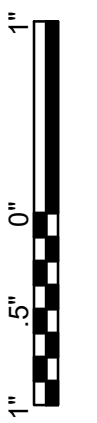


PROCESS PIPING
SITE PLAN - AREA 4

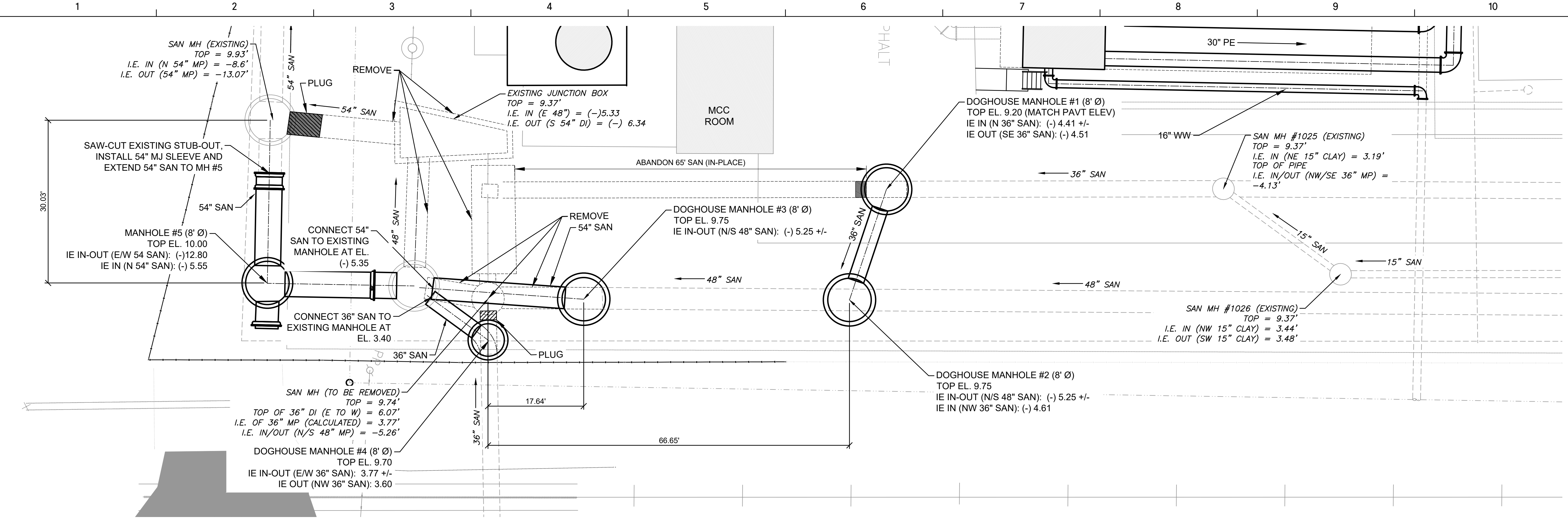
C-124

ISSUE DATE

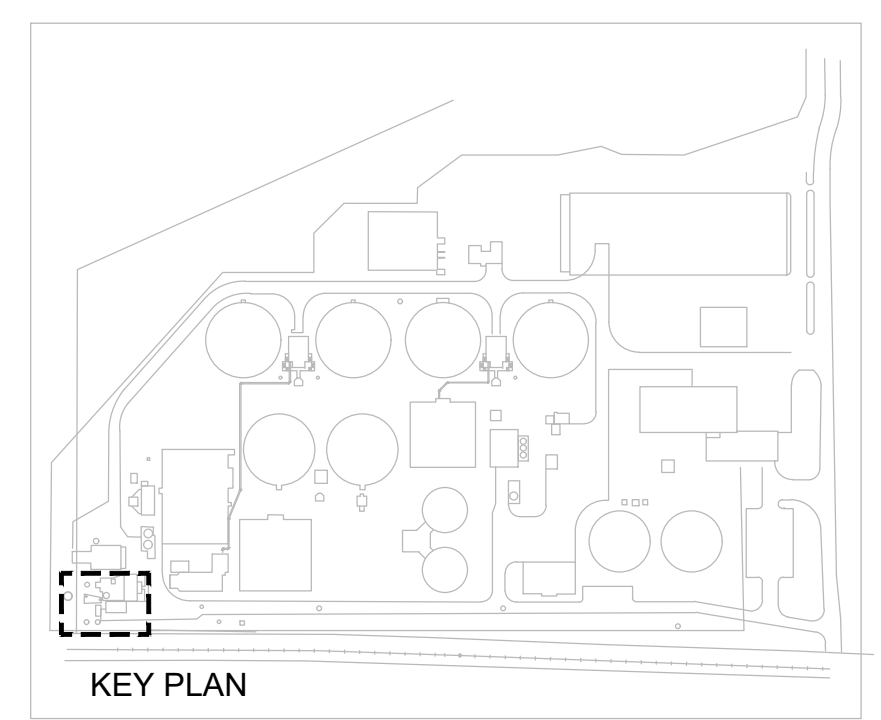
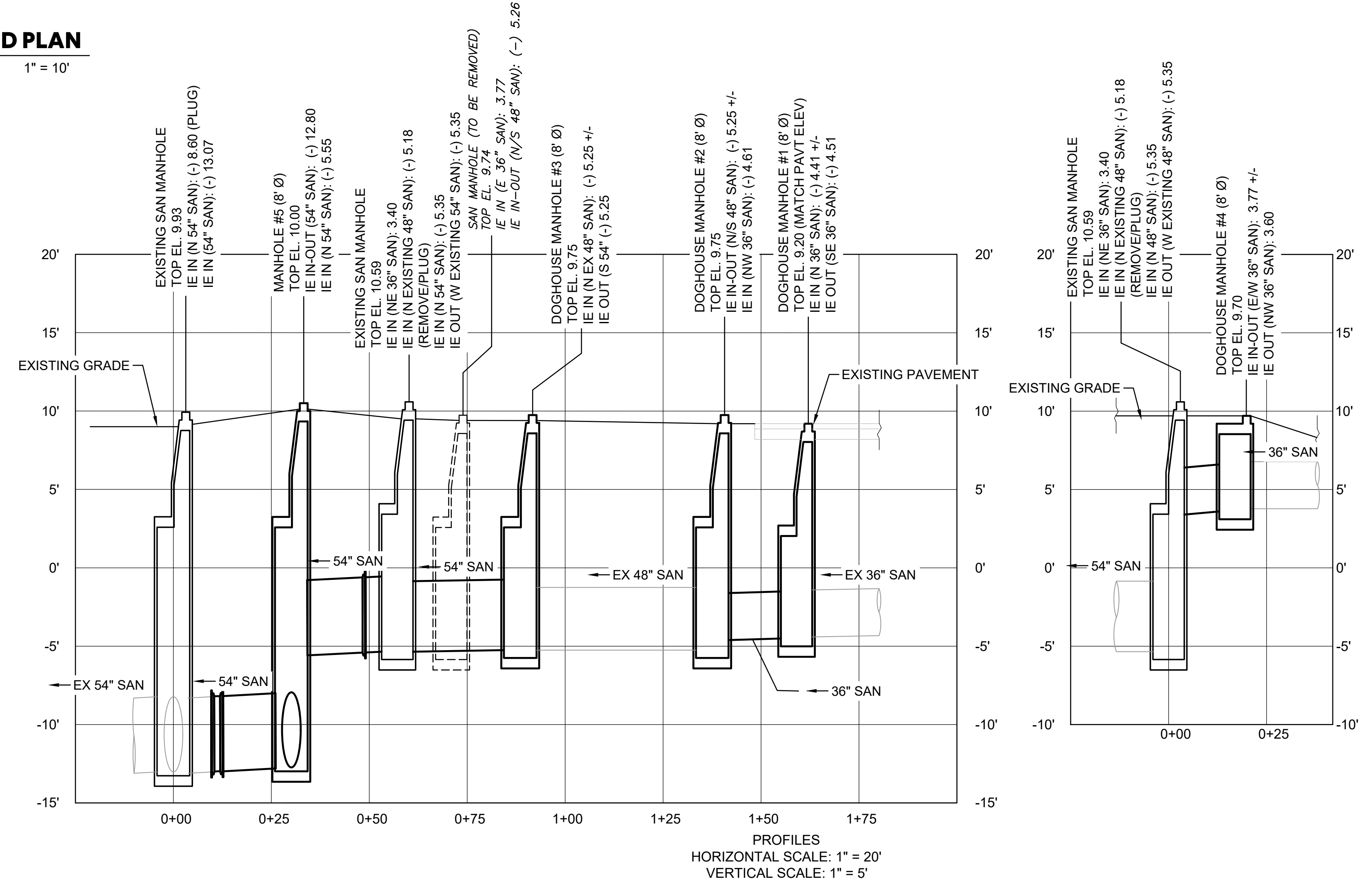
30% SUBMITTAL	09.09.2019	7 Congress Street, Suite 504
70% SUBMITTAL	12.16.2019	Savannah, GA 31401
100% SUBMITTAL	03.12.2020	T 912.655.6790
CONSTRUCTION SUBMITTAL	06.15.2020	GMCNETWORK.COM
PROJECT MANAGER:	JCV	
ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	GS/AJ	



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5 ENLARGED PLAN
SCALE: 1" = 10'



**ENLARGED PLAN
INFLUENT SEWER
MODIFICATIONS**

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

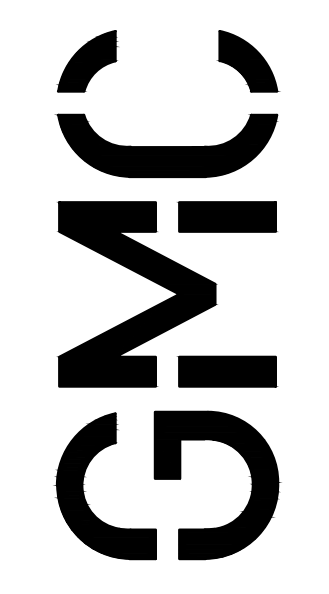
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GMC Project #CSAV190007



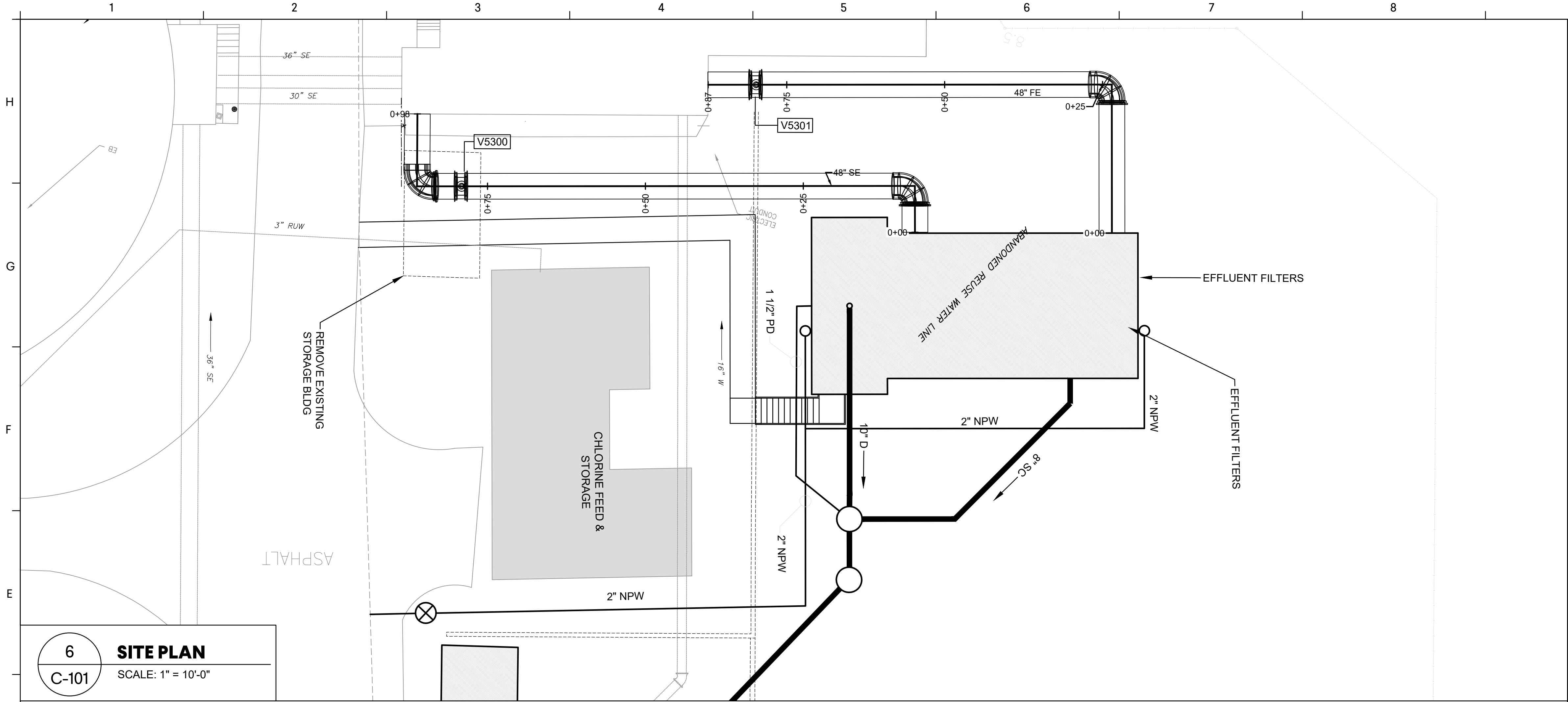
ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

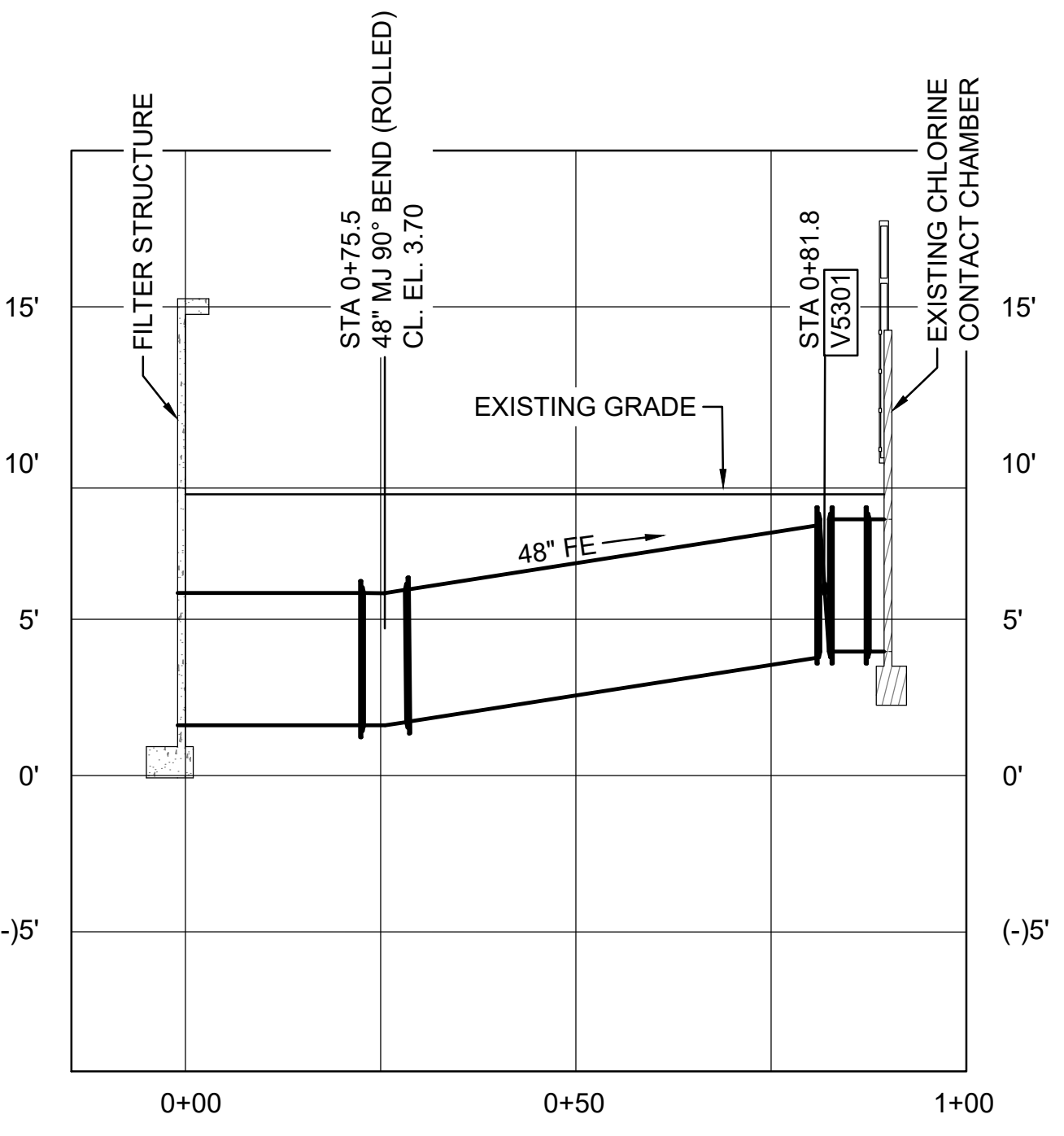
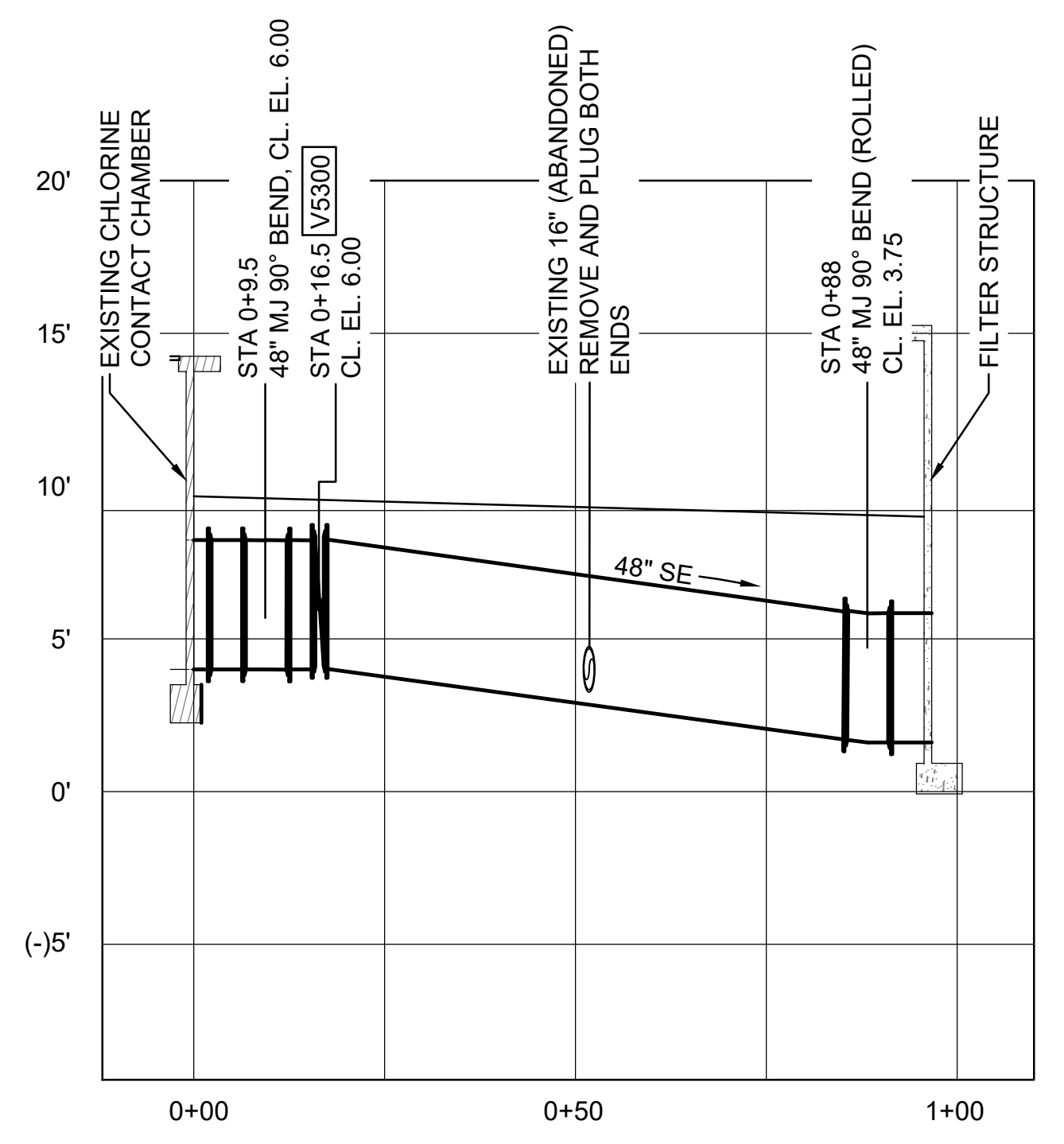
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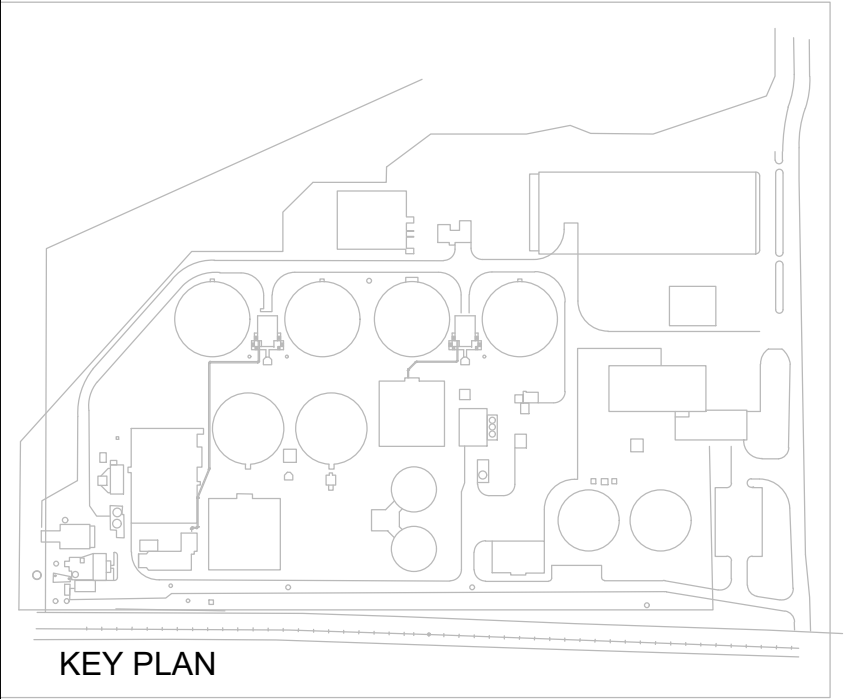
C-125



6 SITE PLAN
 C-101 SCALE: 1" = 10'-0"



A PROFILE
 C-126 SCALE: HORIZONTAL 1" = 20'-0" VERTICAL 1" = 5'-0"



CIVIL SITE PLAN AND PROFILE

C-126

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

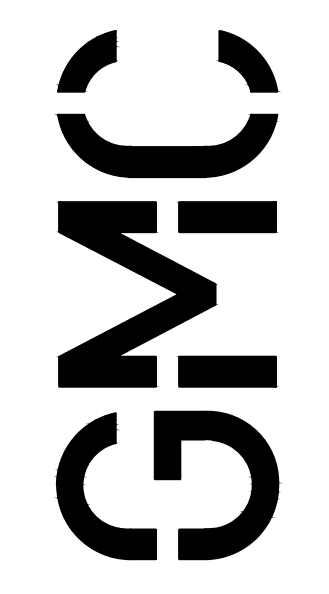
BGJWSC Project No. 906
GMC Project #CSAV190007



ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

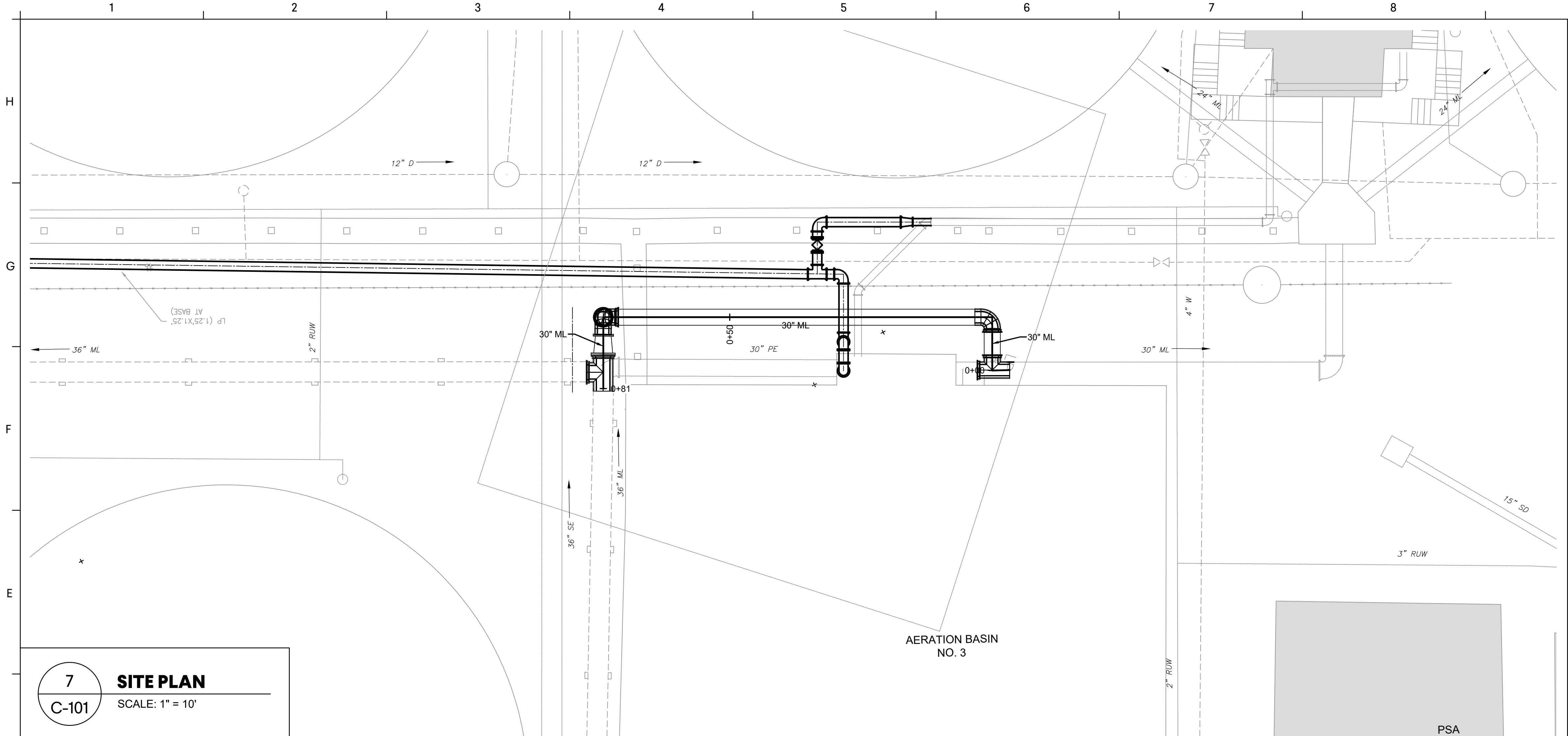
PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

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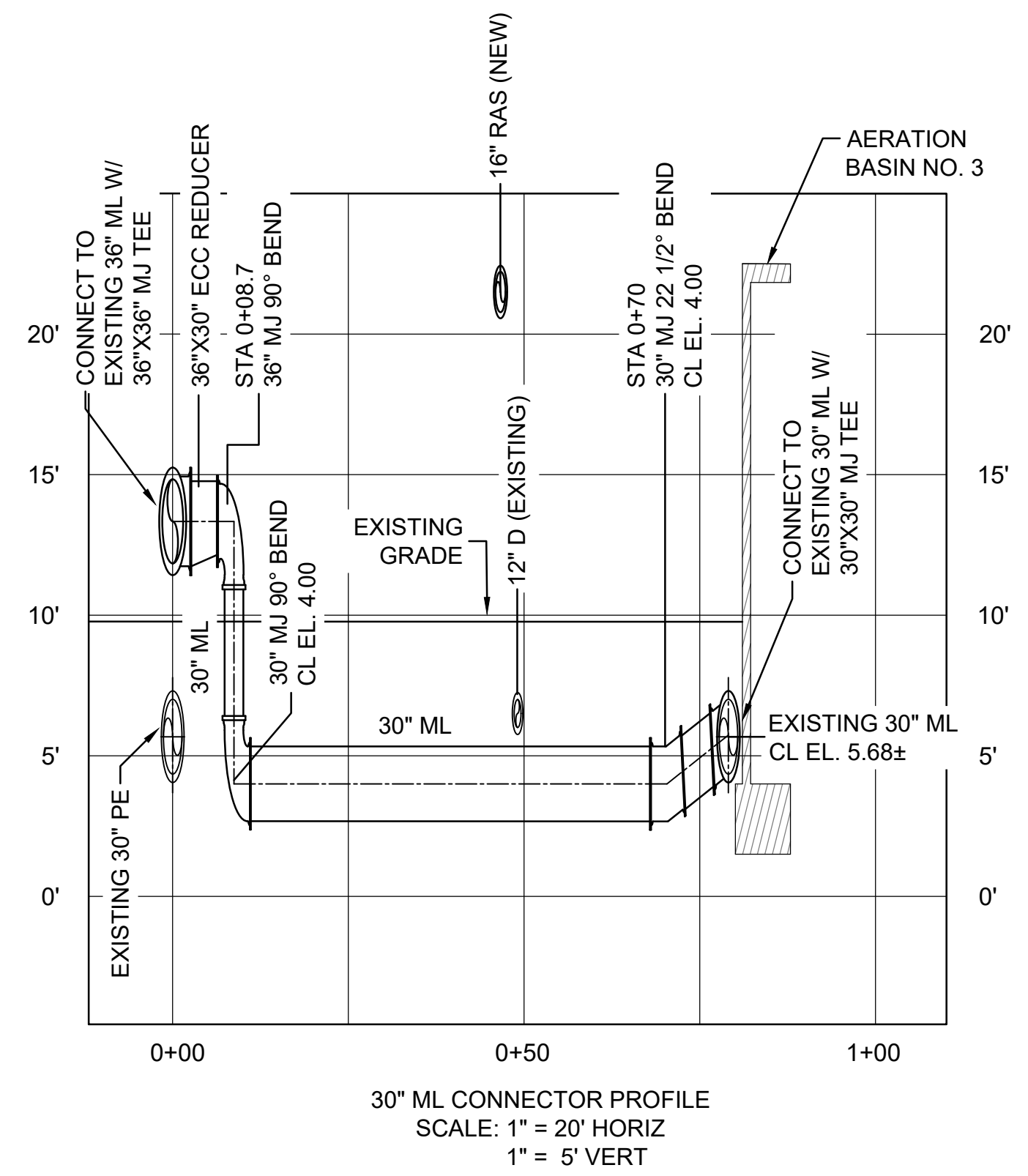


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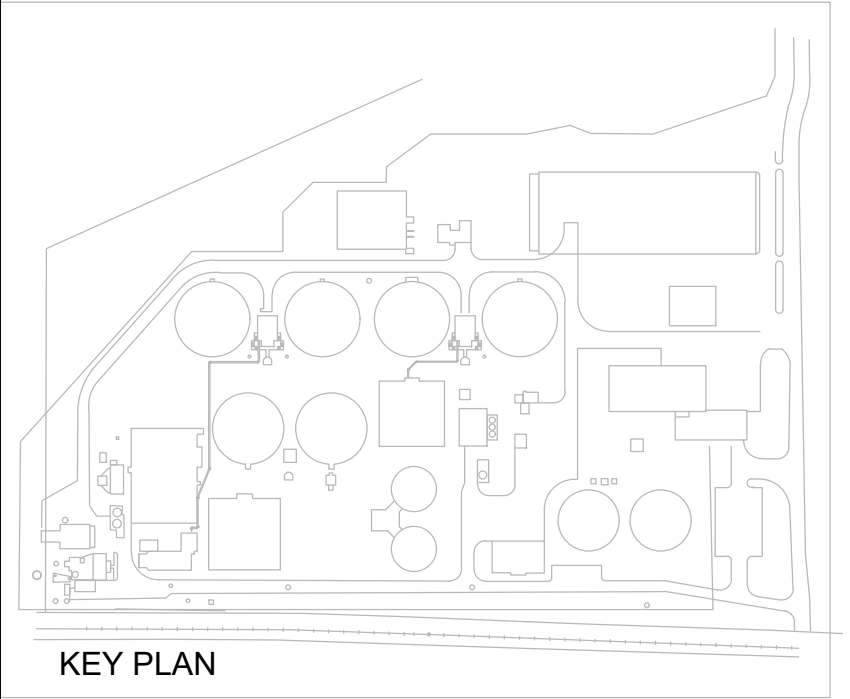
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PLOTTED: Jun 05, 2024 - 10:35am



7 SITE PLAN
C-101 SCALE: 1" = 10'



A PROFILE
C-127 SCALE: HORIZONTAL 1"=20'-0" VERTICAL 1"=5'-0"



KEY PLAN

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

Project No. 906
GMC Project #CSAV190007



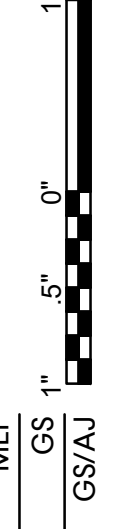
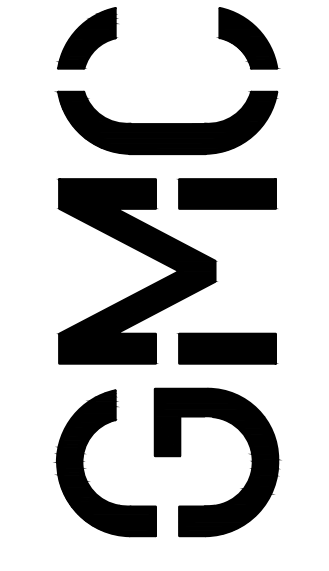
CIVIL SITE PLAN AND PROFILE

C-127

ISSUE DATE

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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- THE PROJECT IS LOCATED WITHIN THE CITY LIMITS OF BRUNSWICK IN GLYNN COUNTY, GA AT THE ACADEMY CREEK WPCF. THE PROJECT INVOLVES UPGRADES TO THE ACADEMY CREEK WPCF. SEE VICINITY MAP LOCATION SHEET G-001.
- THE MAIN UTILITY RESPONSIBLE FOR THE PROJECT IS THE BRUNSWICK - GLYNN COUNTY JOINT WATER AND SEWER COMMISSION 1703 GLOUCESTER ST. BRUNSWICK, GA 31520 PH. (912) 261-7100 24 HR. CONTACT: MARK RYALS SUPERINTENDENT PH. (912) 261-7146
- THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
- SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
- SILT FENCE FABRIC SHALL BE COMPRISED OF GA. DOT QUALIFIED PRODUCTS LIST 36, FOR SILT FENCE FABRIC.
- ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ALL OTHER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS SAME MANUAL.
- THE CONTRACTOR SHALL FURNISH APPROPRIATE AUTHORITY OR DEPT. WITH A SCHEDULE OF ANTICIPATED STARTING AND COMPLETION DATES FOR EACH SEQUENCE OF LAND DISTURBING ACTIVITY LISTED IN ITEMS FOUR THROUGH EIGHT ABOVE.
- EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E.: CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
- ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
- ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS.
- CUT AND FILL SLOPES NOT TO EXCEED 2H:1V.
- NOTIFY WATER & SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.
- SEDIMENTATION & EROSION CONTROL MEASURES TO BE INSPECTED DAILY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.
- THERE ARE STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE. NO BUFFER ENCROACHMENTS ANTICIPATED.
- THE PROJECT DOES NOT IMPACT/DISTURB STATE WATERS, OR STREAMS.
- THE PROJECT DOES NOT IMPACT/DISTURB WETLAND AREAS.
- ADJACENT PROPERTIES TO THE PROPOSED CONSTRUCTION ROUTE ARE COMPRISED OF COMMERCIAL PROPERTIES.
- EXISTING LAND USE ALONG PROJECT LENGTH FALLS UNDER RESIDENTIAL COMMERCIAL ZONING, THE EXISTING AREA BETWEEN THE EDGE OF PAVEMENT AND THE RIGHT-OF-WAY CONSISTS TYPICALLY OF A GRASSED AREA COMPOSED OF DIFFERENT TYPES OF TREES, SHRUBS, AND ORNAMENTAL FEATURES ALONG THE RIGHT-OF-WAY LINE.
- THE DRAINED AREA FOR THE PROJECT IS 191.9 ACRES. SILT STORAGE REQUIRED IS 1.30 AC. TIMES 67 CY/AC = 87.1 CY. ESTIMATED INSTALLATION OF 1,260 L.F. OF TYPE "S" AND "NS" SILT FENCE WILL CONTAIN 227.3 C.Y. OF SILT BASED ON A 4:1 SLOPE WHICH EXCEEDS REQUIRED MINIMUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL MEASURES FOR THE ENTIRE LENGTH OF THE PROJECT AND SHALL ADD ADDITIONAL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION RUN-OFF FROM THE DISTURBED AREAS.
- THE CONTRACTOR MUST COMPLY WITH NPDES GENERAL PERMIT NO. 100001 - EFFECTIVE AUGUST 1, 2018.
- TOTAL PROJECT AREA = 7.04 ACRES (CONSTRUCTION LIMITS)
TOTAL DISTURBED AREA = 1.30 ACRES
- THE EROSION CONTROL MEASURES THAT WILL CONTROL POLLUTANTS AFTER CONSTRUCTION ARE SHOWN IN THE PLANS AND INCLUDE BUT ARE NOT LIMITED TO PERMANENT GRASSING, BEING MOSTLY A LINEAR UTILITY INSTALLATION PROJECT DETENTION/RETENTION STRUCTURES ARE NOT PRACTICAL. THE POST-DEVELOPED FLOWS WILL BE EQUAL TO THE PRE-DEVELOPED FLOWS BECAUSE THERE ARE NO ADDITIONAL IMPERVIOUS SURFACES CREATED AND THE EXISTING GROUND WILL MAINTAIN THE EXISTING SLOPE AND MATERIAL WHICH WILL NOT CHANGE OR INCREASE THE FLOW PATTERNS.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SHRUBBERY, TREES, OR STRUCTURES WITHIN THE WORKING AREA THROUGHOUT THE COURSE OF CONSTRUCTION. ANY TREES, SHRUBS, OR STRUCTURES DAMAGED OR DISTURBED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE
- PORTIONS OF THE PROJECT ARE LOCATED IN ZONE FLOOD PLAIN PER FIRM FEMA FIRMETTE 13127C0217H DATED JANUARY 5, 2018.
- DESIGN PROFESSIONAL QUALIFICATIONS: GSWCC LEVEL II CERTIFICATION #
- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs, AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE CONTRACTOR SHALL ALSO PREVENT POLLUTION OF THE ADJOINING STREAMS BY NOT CONDUCTING ANY ACTIVITIES IN THE BUFFER ZONE THAT ARE NOT ABSOLUTELY NECESSARY. FORBIDDEN ACTIVITIES IN THE BUFFER ZONE INCLUDED, BUT NOT LIMITED TO INCLUDE:
 - VEHICLE REFUELING AND MAINTENANCE
 - DEPOSITING OF TRASH, WASTE, CONSTRUCTION DEBRIS, EXTRA CONCRETE AND ASPHALT, AND RESIDUE FROM EQUIPMENT CLEANING.
- CONTRACTOR SHALL NOT LEAVE THESE AND OTHER WASTE PRODUCTS ON THE GROUND, BUT SHALL REMOVE AND DISPOSE OF THEM PROMPTLY AND IN APPROVED LOCATIONS.
- VEHICLE FUELING AND MAINTENANCE SHALL TAKE PLACE ONLY IN AREAS DESIGNATED BY THE OWNER.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- WASHOUT OF CONCRETE DRUMS AND EQUIPMENT AT THE CONSTRUCTION SITE IS PROHIBITED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICE AND UTILITY LINES ON THE SITE PRIOR TO BEGINNING EXCAVATION. ALL UTILITIES LOCATED WITHIN THE STRUCTURES FOOTPRINT SHALL BE RELOCATED UNLESS NOTED OTHERWISE AND THE COST OF RELOCATION SHALL BE PART OF THE CONTRACT.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS.
- GRADE AREAS ADJACENT TO BUILDING LINES TO DRAIN AWAY FROM BUILDINGS TO PREVENT PONDING.
- WHEN FINISHED GRADING MEET OR ABUTS CURBS, WALKS OR PAVEMENTS, UPHILL GRADES SHALL BE SLIGHTLY HIGHER THAN PAVEMENT TO PERMIT PROPER DRAINAGE.
- FIELD ADJUSTMENTS IN GRADE MUST BE APPROVED BY THE ENGINEER.
- PROPOSED SURFACE SHALL CLEANLY TRANSITION FROM EXISTING SURROUNDING SURFACES, PROVIDING POSITIVE DRAINAGE.
- CONTAINMENT AREAS SHALL HAVE POSITIVE DRAINAGE TOWARDS THE INLET WITHIN THE CONTAINMENT AREA.
- NO MORE THAN 100 FEET OF PIPELINE TRENCH IS TO BE OPEN AT ONE TIME. FOLLOWING INSTALLATION OF ANY PORTION OF THESE ITEMS, ALL DISTURBED AREAS SHALL BE STABILIZED THE SAME DAY.
- NO FILL MATERIAL IS TO BE STORED ON CONCRETE OR ASPHALT ROADS WITHIN SITE. TEMPORARY STORAGE MAY BE ALLOWED IN DESIGNATED AREAS AND MUST BE COVERED WITH PLASTIC.
- CONTRACTOR SHALL STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS. STORE WITH SEALS AND LABELS INTACT AND LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHER TIGHT, CLIMATE CONTROLLED, ENCLOSURES IN AN ENVIRONMENT FAVORABLE TO PRODUCT. FOR EXTERIOR STORAGE OF FABRICATED PRODUCTS, PLACE ON SLOPED SUPPORTS ABOVE GROUND. COVER PRODUCTS SUBJECT TO DETERIORATION WITH IMPERVIOUS SHEET COVERING. PROVIDE VENTILATION TO PREVENT CONDENSATION AND DEGRADATION OF PRODUCTS. PROVIDE EQUIPMENT AND PERSONNEL TO STORE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT, OR DAMAGE. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION. PERIODICALLY INSPECT TO VERIFY PRODUCTS ARE UNDAMAGED AND ARE MAINTAINED IN ACCEPTABLE CONDITION. CONTRACTOR SHALL NOT LEAVE ANY WASTE PRODUCTS ON THE GROUND, BUT SHALL REMOVE AND DISPOSE OF THEM PROMPTLY AND IN APPROVED LOCATIONS.
- ALL SLABS SHALL BE OVER EXCAVATED BY 1' AND BACKFILLED WITH 1' OF NO.57 STONE

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION.

Chris Tolleson
Signed _____ Date 03/12/2020

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100003.

CHRIS TOLLESON
LEVEL II CERTIFICATION #8059
EXPIRES 02/01/2021

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR100003, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

CHRIS TOLLESON
LEVEL II CERTIFICATION #8059
EXPIRES 02/01/2021

I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Chris Tolleson
Owner _____ Date 03/12/2020

ANTICIPATED ACTIVITY SCHEDULE

MONTHS	START DATE																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 BEGIN PROJECT	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
2 INSTALL SEDIMENT CONTROLS	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
3 CLEARING	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
4 GRASS & MULCH (TEMP.) (PERM.)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
5 UTILITY INSTALLATION	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
6 MAINTAIN EROSION CONTROL	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
7 CLEAN UP	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
8 FINAL STABILIZATION	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

NOTE: THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.



Know what's below.
Call before you dig.

INITIAL DATE OF PLAN SET: 12.04.2019

PLAN REVISIONS AND DESCRIPTION		
NO.	INT.	DESCRIPTION

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION



7 Congress Street, Suite 504
Savannah, GA 31401
T 912.655.6790
GMCNETWORK.COM

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



STORM WATER POLLUTION PREVENTION PLAN NOTES & ACTIVITY SCHEDULE

C-501

BGJWSC Project No. 906
GMC Project #CSAV190007

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

SWCD: Region 3

Project Name: 2019 WPCF Rehabilitation Academy Creek Address: 2909 Newcastle Street
 City/County: City of Brunswick, Glynn County, GA Date on Plans: March 12, 2020
 Name & email of person filling out checklist: richard.johnson@gmccnetwork.com

Plan Page # Included Y/N
 C-501 Y

TO BE SHOWN ON ES&PC PLAN

1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
 (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- 2-C-501-502# Y 2. Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
- N/A N 3. Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.* (A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.)
- C-501 Y 4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- C-501 Y 5. Provide the name, address, email address, and phone number of primary permittee.
- C-501 Y 6. Note total and disturbed acreage of the project or phase under construction.
- C-506-508 Y 7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
- C-501 Y 8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- C-501 Y 9. Description of the nature of construction activity.
- C-501 Y 10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- C-505 Y 11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- C-501 Y 12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
- C-501 Y 13. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.*
- C-501 Y 14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit.*
- C-501 Y 15. Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- C-501 Y 16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- C-501 Y 17. Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
- C-501 Y 18. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."*
- C-501 Y 19. Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- C-501 Y 20. Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
- C-501 Y 21. Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- N/A N 22. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
- N/A N 23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
- C-510 Y 24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
- C-510 Y 25. Provide BMPs for the remediation of all petroleum spills and leaks.
- C-501 Y 26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*

- C-501 Y 27. Description of practices to provide cover for building materials and building products on site.*
- C-501 Y 28. Description of the practices that will be used to reduce the pollutants in storm water discharges.*
- C-501 Y 29. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- C-504 Y 30. Provide complete requirements of inspections and record keeping by the primary permittee.*
- C-504 Y 31. Provide complete requirements of sampling frequency and reporting of sampling results.*
- C-504 Y 32. Provide complete details for retention of records as per Part IV.F. of the permit.*
- C-505 Y 33. Description of analytical methods to be used to collect and analyze the samples from each location.*
- C-505 Y 34. Appendix B rationale for NTU values at all outfall sampling points where applicable.*
- C-505 Y 35. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
- C-501 Y 36. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase.*
- C-506-508 Y 37. Graphic scale and North arrow.
- C-506-508 Y 38. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10
- N/A N 39. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
- N/A N 40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
- C-501.505 Y 41. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- C-501.505 Y 42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
- C-505 Y 43. Delineation and acreage of contributing drainage basins on the project site.
- N/A N 44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
- C-505 Y 45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- N/A N 46. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- C-503 Y 47. Soil series for the project site and their delineation.
- C-506-508 Y 48. The limits of disturbance for each phase of construction.
- C-501 Y 49. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
- C-506-508 Y 50. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- C-508-511 Y 51. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- C-506-508 Y 52. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.
 Effective January 1, 2020

STORM WATER POLLUTION PREVENTION PLAN CHECKLIST

2019 WPCF REHABILITATION ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

7 Congress Street, Suite 504 Savannah, GA 31401
 T 912.655.6790
 G M C N E T W O R K . C O M

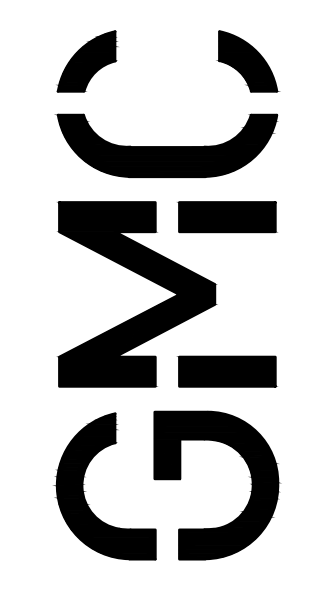
30% SUBMITTAL 09.09.2019
 70% SUBMITTAL 12.16.2019
 100% SUBMITTAL 03.12.2020
 CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

ISSUE DATE



C-502



Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches L-R-H	3-10 inches L-R-H	4	10	40	200		
Camden and Glynn Counties, Georgia														
BO—Bohicket-Capers association			In											
Bohicket	80 D		0-8	Stratified silty clay loam	CH, MH	A-7	0-0-0	0-0-0	100-100-100	99-100-100	90-95-100	80-90-100	60-80-100	15-38-60
			Aug-65	Silty clay, clay, sandy clay	CH, MH	A-7	0-0-0	0-0-0	100-100-100	99-100-100	80-90-100	70-83-95	50-75-100	16-38-60
Capers	20 D		0-8	Silty clay	MH	A-7-5	0-0-0	0-0-0	100-100-100	100-100-100	85-93-100	75-88-100	50-66-81	15-28-40
			Aug-60	Clay, silty clay	MH	A-7-5	0-0-0	0-0-0	100-100-100	100-100-100	85-93-100	75-88-100	52-66-80	#####
Mb—Mandarin-Urban land complex														
Mandarin	55 C		0-19	Fine sand	SP, SP-SM	A-3	0-0-0	0-0-0	100-100-100	100-100-100	90-95-100	2/6/2010	—	NP
			19-34	Fine sand, sand, loamy fine sand	SM, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	100-100-100	90-95-100	#####	—	NP
			34-62	Fine sand, sand	SP, SP-SM	A-3	0-0-0	0-0-0	100-100-100	100-100-100	90-95-100	2/5/2007	—	NP
			62-80	Fine sand, sand, loamy fine sand	SP, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	100-100-100	90-95-100	3/8/2012	—	NP
Ru—Rutlege fine sand														
Rutlege	100 A/D		0-15	Sand	SP-SM	A-3	0-0-0	0-0-0	95-98-100	95-98-100	70-85-100	5/8/2010	0-7-14	NP
			15-70	Sand, loamy sand, loamy fine sand	SM, SP, SP-SM	A-2, A-3	0-0-0	0-0-0	95-98-100	95-98-100	50-65-80	#####	0-10-20	NP

MAP LEGEND

- Area of Interest (AOI)
- Area of Interest (AOI)
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points
- Special Line Features

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: [http://websoilsurvey.sc.egov.usda.gov](#)
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Camden and Glynn Counties, Georgia
Survey Area Date: Version 12, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 1, 2015—Jun 6, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Web Soil Survey
National Cooperative Soil Survey

11/25/2019
Page 2 of 3



Web Soil Survey
National Cooperative Soil Survey

11/25/2019
Page 1 of 3

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2019 WPCF REHABILITATION
ACADEMY CREEK
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30% SUBMITTAL 09.09.2019
70% SUBMITTAL 12.16.2019
100% SUBMITTAL 03.12.2020
CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

1" = 50'

0' 5' 1'

EXISTING SOIL DELINEATIONS & PROPERTIES

C-503

CMP SAMPLING METHODS & PROCEDURES
GENERAL PERMIT No. GAR 100001 – EFFECTIVE AUGUST 1, 2018

REPRESENTATIVE SAMPLING ON STAND ALONE CONSTRUCTION PROJECT
 Receiving water samples and storm water discharge samples will be collected by "grab samples", as specified in Part IV.D.6 of the GAR 100001 permit. All "grab samples" will be collected using the following methods and procedures.

SAMPLING REQUIREMENTS:

SAMPLING FREQUENCY:

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty–five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit. After all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post–storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any time of the day or week.

INSPECTIONS:

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non–working Saturday, non–working Sunday and non–working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any nonworking Saturday, non–working Sunday or any non–working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

INSPECTIONS CONTINUED:

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

REPORTING:

1. The applicable permittees are required to submit the sampling results to the EPD by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. **Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD.** Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of the certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

RETENTION OF RECORDS:

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

Copies of all the above stated information and all other records required by this permit shall be retained for a period of at least three years from the date that the NOT is submitted.

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION



STORM WATER POLLUTION PREVENTION PLAN SAMPLING METHODS

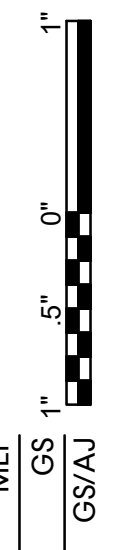
C-504

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ISSUE DATE

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PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

BGJWSC Project No. 906
 GMC Project #CSAV190007



DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES:

The method used to collect and analyze the water samples shall be in accordance with the following procedures:

- All samples shall be grab samples.
- Analysis of samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved), the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.
- Sample containers should be labeled prior to collecting the samples.
- Samples should be well mixed before transferring to a secondary container.
- Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- Manual or automatic sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Samples are not required to be cooled. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter.
- Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in the permit must be reported to EPD as specified in Part IV.E of the permit.
- The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity but downstream of any other storm water discharges not associated with the permitted activity.
- The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity but upstream of any other storm water discharge not associated with the permitted activity.
- Samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
- Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
- The sampling container should be held so that the opening faces upstream.
- The samples should be kept free from floating debris.

Deviations from these methods and procedures shall be documented by the primary permittee.

Sampling must be done in such a way as to accurately reflect whether storm water runoff from the site is in compliance with the standard set forth in the permit.

Measurement of rainfall must be recorded daily (once each twenty-four hour period) at the site.

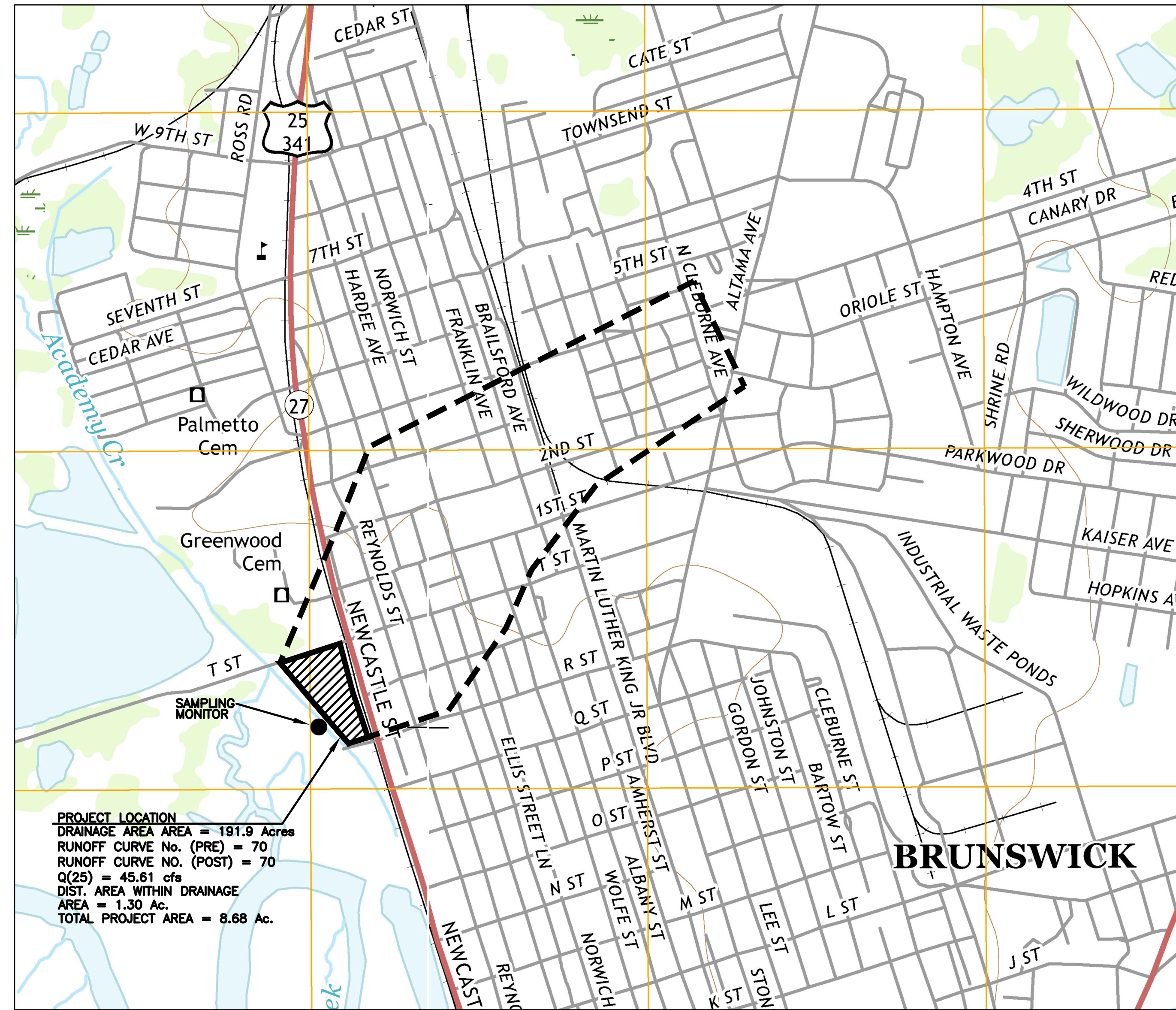
The primary permittee must sample all perennial and intermittent streams and other water bodies or all outfalls into such streams and other water bodies as indicated on the map referenced in the permit.

For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1).(g).

NTU MATRIX VALUE

The proposed development has a surface water drainage area of 0.30 sq.m which is between 0-4.99 square miles and a site size (7.04 ac.) between 1.0-10.00 acres. See table below.

Site Size, acres	Surface Water Drainage Area, square miles							
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	100	100	200	100



WATERSHED, SITE MONITORING LOCATIONS AND DRAINAGE AREA MAP

SCALE: 1" = 800'

SAMPLING POINTS:

For this project a single representative outfall will be sampled for the Academy Creek WPCF Rehabilitation construction project in accordance with current NPDES General Permit No. GAR 100001.

The project is located in the City of Brunswick in Glynn County GA particularly at the southwest corner of the intersdction of T Street and Newcastle street (AKA US Highway 25) as indicated on the location map and plan sheets. There is (1) ONE outfall area for this project and it has a total drainage area of 191.9 acres. The runoff from the project drains to Academy Creek.

<u>Drainage Basin (Ac)</u>	<u>Disturbed Area (Ac)</u>	<u>Monitoring Station location</u>
191.9 (0.30 SQ. MI.)	1.30	AS SHOWN ON SHT. C-507

The aforementioned creek is a continuously flowing stream. The (1) ONE sampling location is representative for the project.

The sampling location for the disturbed drainage basin above shall be monitored concurrent with land disturbance/clearing. Sampling is required during construction and until all disturbed areas are stabilized. Stabilization shall mean at least 70% of the disturbed soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed.

Note: Monitors shall be located at the location called out on this plan or as directed by the engineer and/or Georgia EPD. A total of (1) ONE monitor shall be installed for this project. The NTU value for this project shall not exceed 75.



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CONSTRUCTION SUBMITTAL	
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

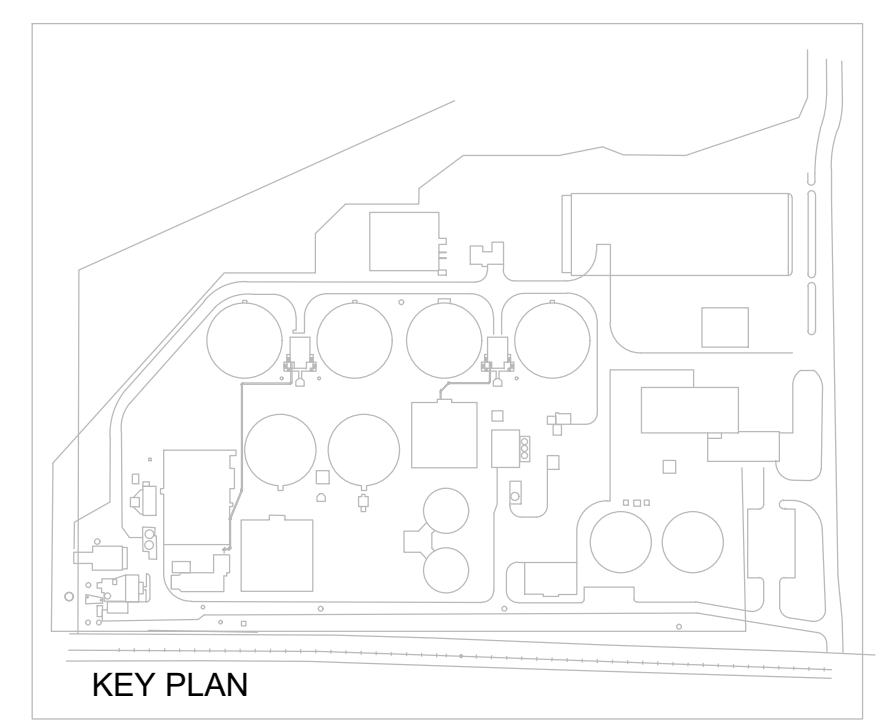
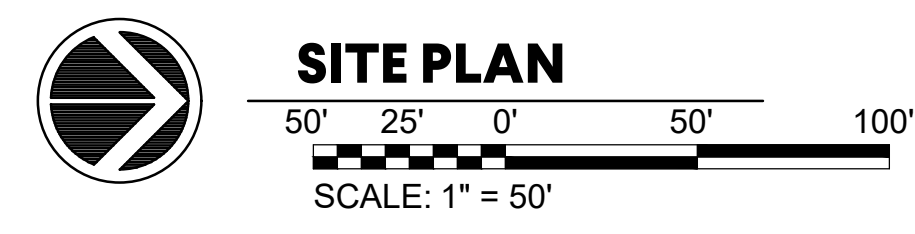
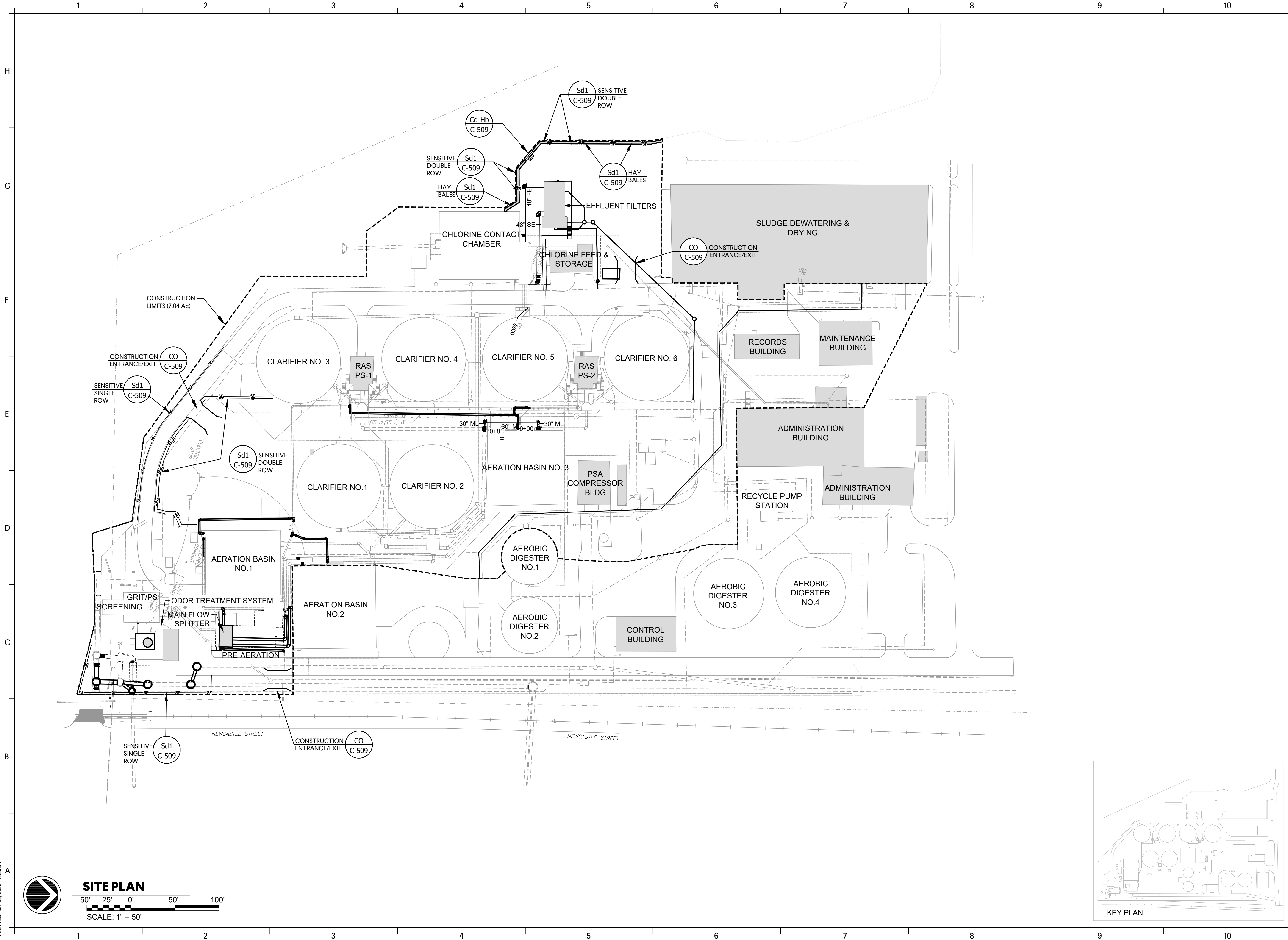
2019 WPCF REHABILITATION
 ACADEMY CREEK
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STORM WATER PREVENTION
 PLAN SITE LOCATION &
 SAMPLING ANALYTICAL
 METHODS

C-505

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STORM WATER POLLUTION PREVENTION PLAN PHASE 1

C-506

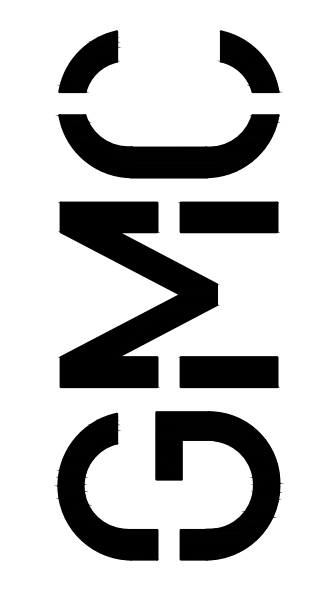
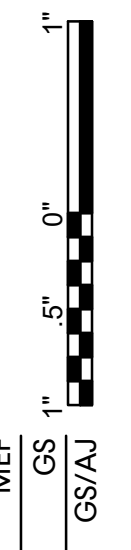


2019 WPCF REHABILITATION ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

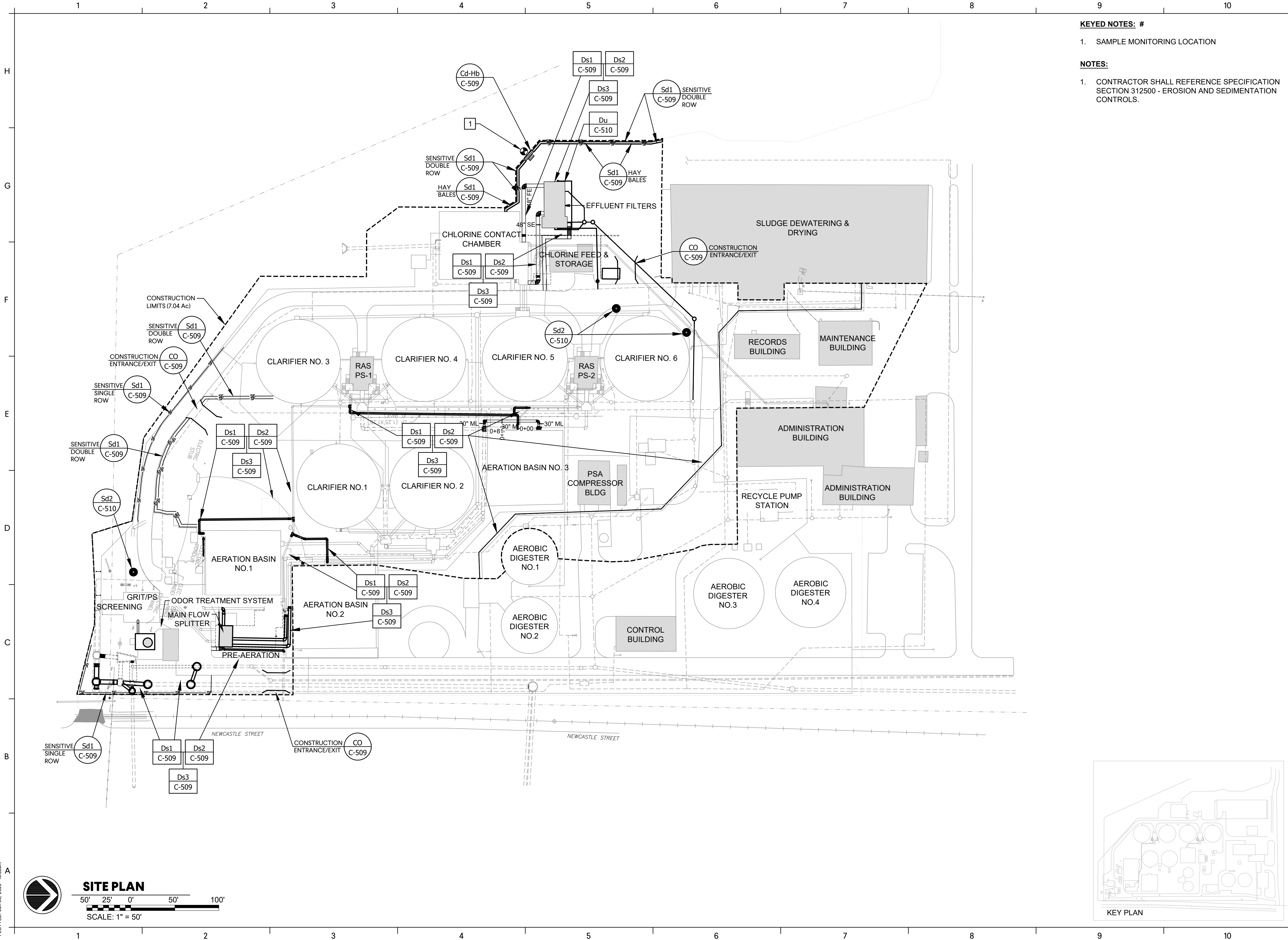
BGJWSC Project No. 906
GMC Project #CSAV190007

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DESIGNER:	GS
DRAWN BY:	GS/AJ

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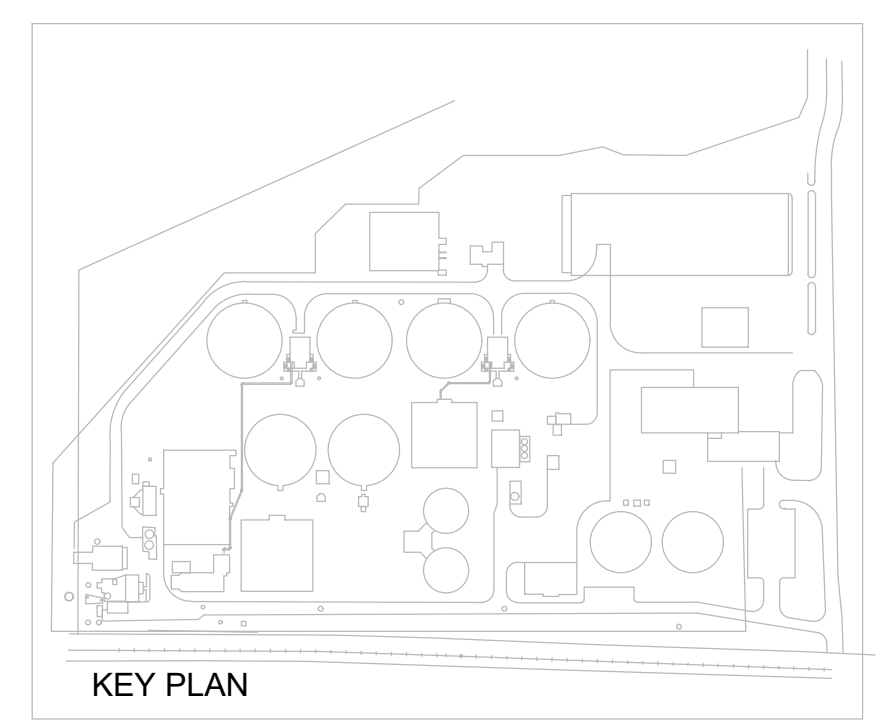
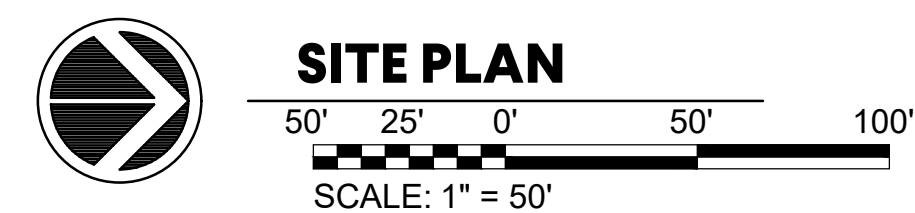


KEYED NOTES: #

1. SAMPLE MONITORING LOCATION

NOTES:

1. CONTRACTOR SHALL REFERENCE SPECIFICATION SECTION 312500 - EROSION AND SEDIMENTATION CONTROLS.



STORM WATER POLLUTION PREVENTION PLAN PHASE 2

C-507

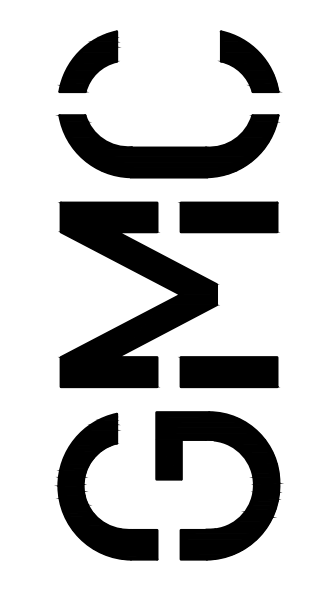
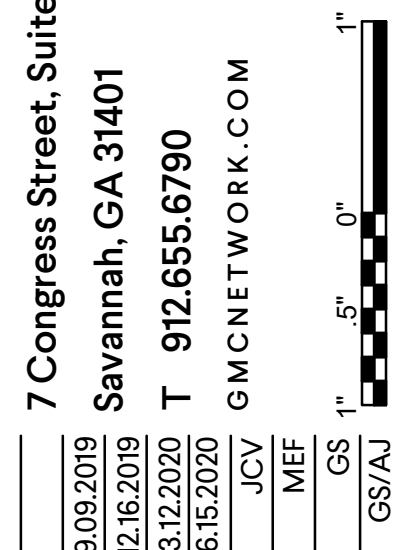
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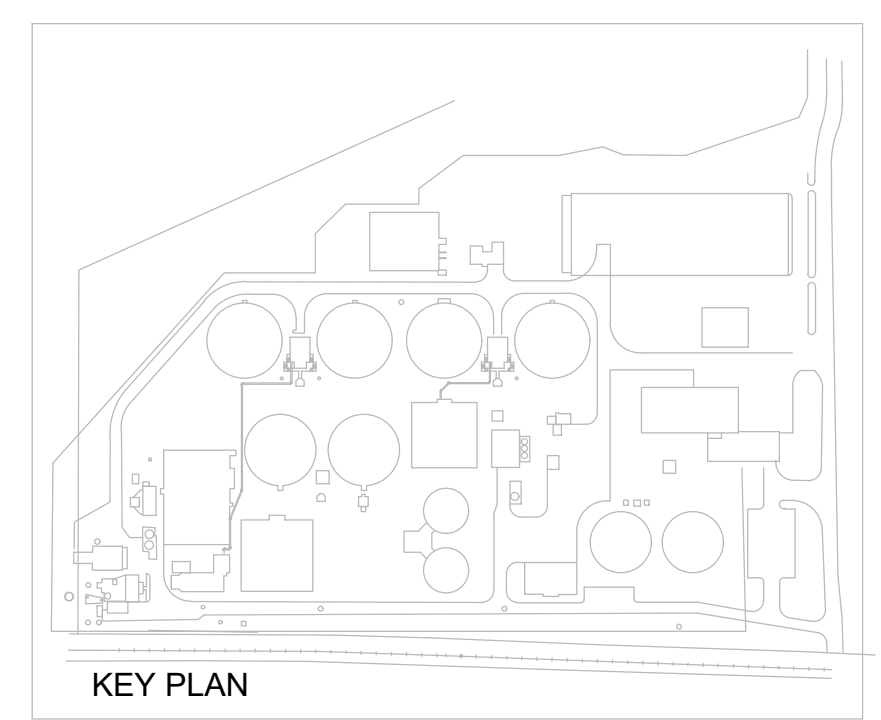
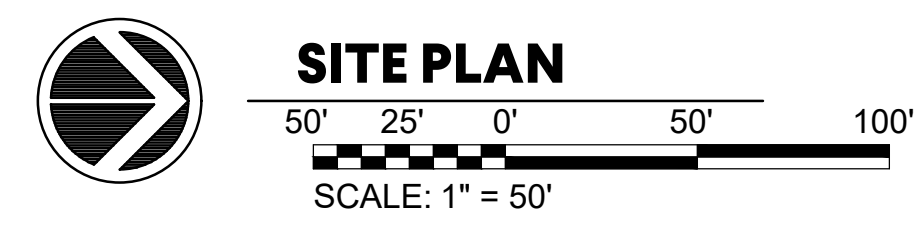
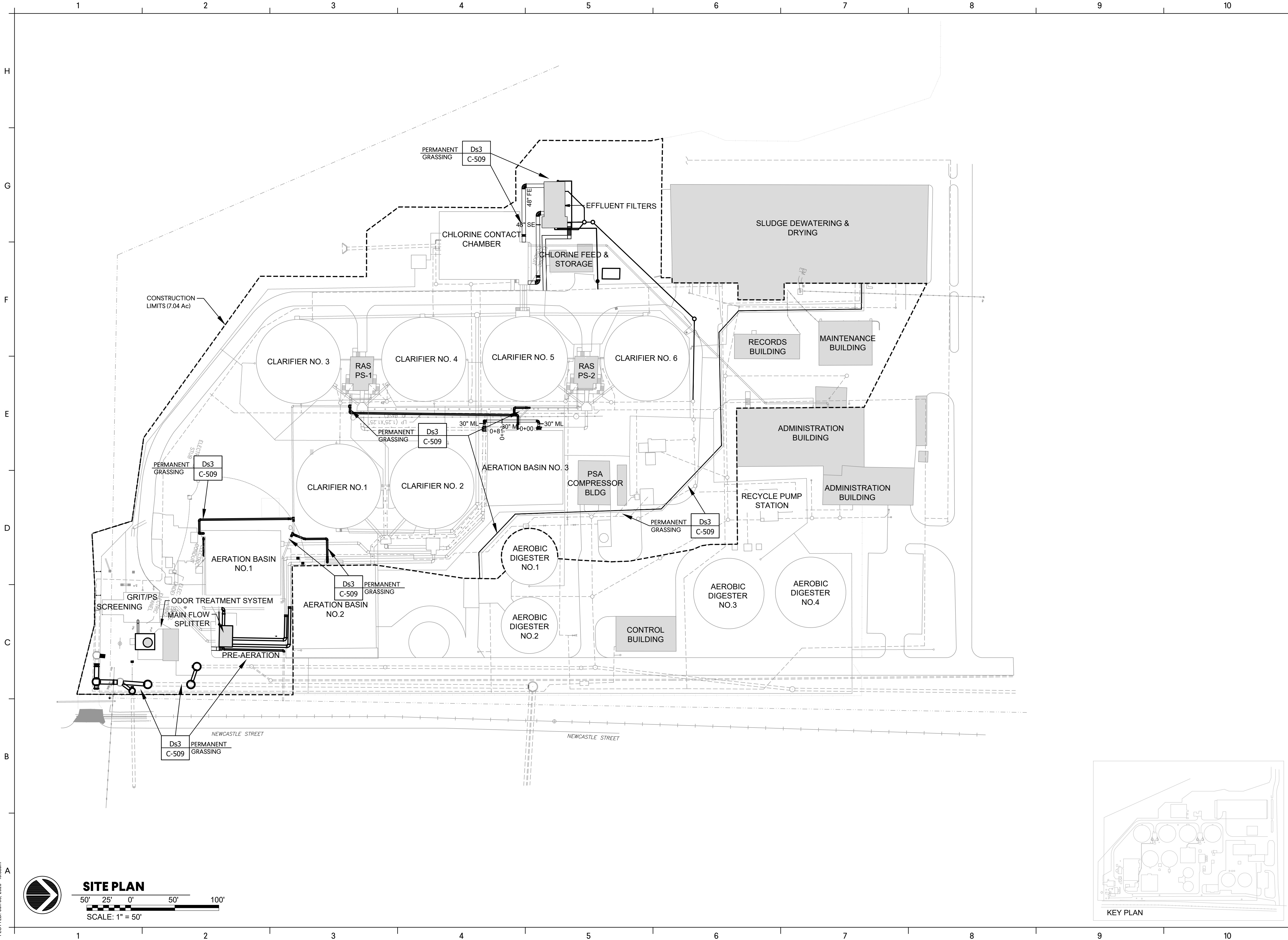
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PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

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KEY PLAN

STORM WATER POLLUTION PREVENTION PLAN PHASE 3

C-508

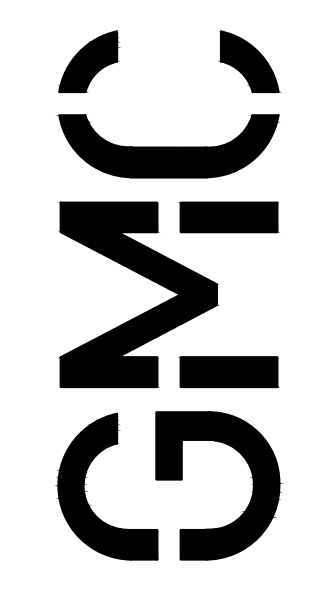
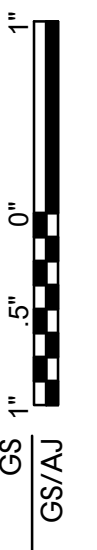


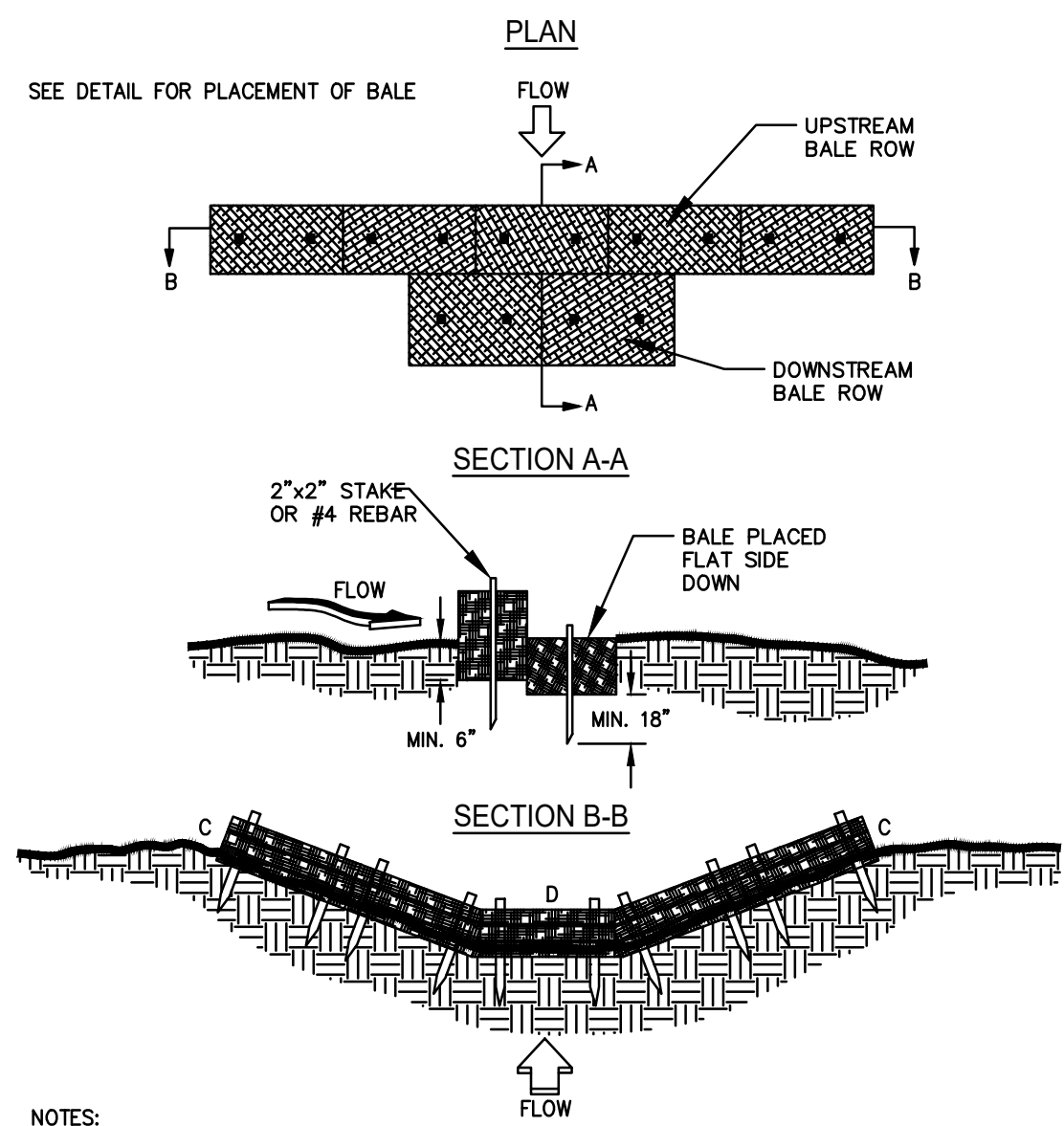
2019 WPCF REHABILITATION ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

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PROJECT MANAGER:	JCV	
ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	GS/AJ	





- NOTES:**
- BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 - POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Cd-Hb HAY BALE CHECK DAM

PURPOSE: 1. TO PREVENT THE MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES

2. PREVENT THE MOVEMENT OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL TO HEALTH.

INSTALLATION: 1. APPLY ACCORDINGLY TO APPROVED PLAN, IF SHOWN.

2. MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATAK ACCORDING TO MANUFACTURERS RECOMMENDATIONS

3. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.

4. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.

5. COVER SURFACES WITH CRUSHED STONE OR GRAVEL.

6. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACE MOIST.

7. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1

TABLE 1

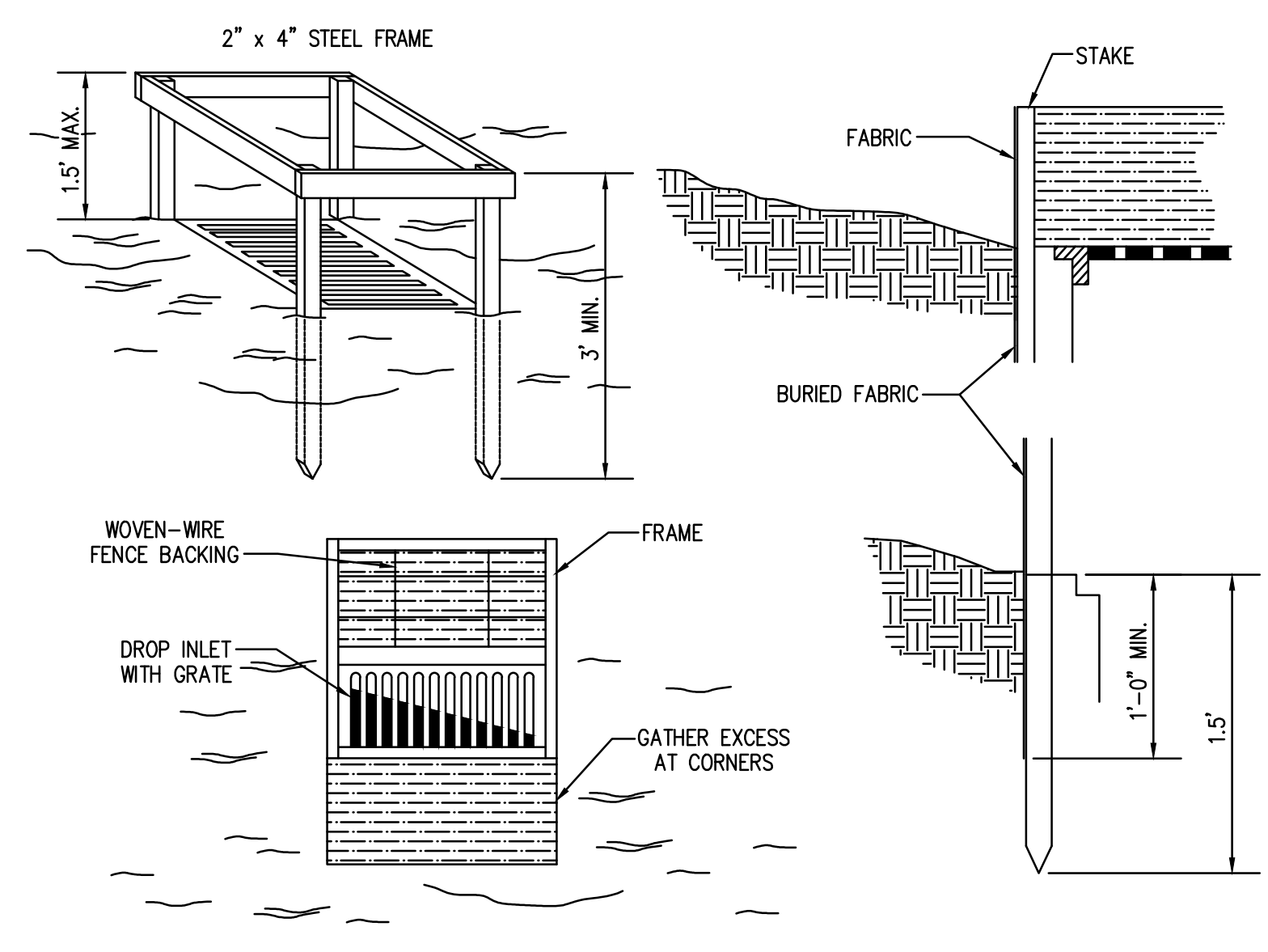
EMULSION	RATIO	SPRAY	AMOUNT
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

MAINTENANCE: 1. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.

2. SUPPLEMENTAL SURFACE COVERING AS NEEDED.

- REFERENCES:** 1. Ds1
2. Ds2
2. Ds3
2. Ds4

Du DUST CONTROL ON DISTURBED AREAS



CONSTRUCTION SPECIFICATIONS

This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. Type C silt fence supported by steel posts shall be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

MAINTENANCE

The trap shall be inspected daily and after each rain and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Silt inlet protection shall be maintained as specified in Ds4-Disturbed Area Stabilization (with sodding). Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again. When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Sd2-F INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME

VEHICLE FUELING

DESCRIPTION AND PURPOSE
VEHICLE FUELING EQUIPMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

SUITABLE APPLICATIONS
THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE VEHICLE AND EQUIPMENT FUELING TAKES PLACE.

LIMITATIONS
ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICABLE TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH CO, STABILIZED CONSTRUCTION ENTRANCE/EXIT.

IMPLEMENTATION
.. USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE.
.. THESE BUSINESSES ARE BETTER EQUIPPED TO HANDLE FUEL AND SPILLS PROPERLY. PERFORMING THIS WORK OFFSITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE FUELING AREA AT A SITE.
.. DISCOURAGE "TOPPING-OFF" OF FUEL TANKS.

CONCRETE WASTE MANAGEMENT

DESCRIPTION AND PURPOSE
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

SUITABLE APPLICATIONS
< STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
< AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
< PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.
< DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
< DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.

IMPLEMENTATION
< WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA.
< TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.
< WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

BEST MANAGEMENT PRACTICES (BMPs) HEAVY EQUIPMENT & EARTH-MOVING ACTIVITIES

HEAVY EQUIPMENT OPERATION PROBLEMS

SOIL EXCAVATION AND GRADING OPERATIONS OFTEN CONTRIBUTE TO URBAN RUNOFF POLLUTION. BY LOOSENING LARGE AMOUNTS OF SOIL AND SEDIMENT, EARTH-MOVING ACTIVITIES CAN CAUSE SEDIMENT TO FLOW INTO GUTTERS, STORM DRAINS AND STREAMS. SEDIMENT IS THE MOST COMMON POLLUTANT WASHED FROM WORK SITES. CREATING MULTIPLE PROBLEMS ONCE IT ENTERS THE STREAM. SEDIMENT CLOGS THE GILLS OF FISH, BLOCKS LIGHT TRANSMISSION AND INCREASES STREAM WATER TEMPERATURE. ALL OF WHICH HARM LIFE, DISTURBING THE FOOD CHAIN UPON WHICH BOTH FISH AND PEOPLE DEPEND UPON.

SEDIMENT ALSO CARRIES WITH IT OTHER WORK SITE POLLUTANTS SUCH AS PESTICIDES, CLEANING SOLVENTS, CEMENT WASH, ASPHALT AND CAR FLUIDS LIKE MOTOR OIL, GREASE AND FUEL. THUS, POORLY MAINTAINED VEHICLES AND HEAVY EQUIPMENT LEAKING FUEL AND OIL AT THE CONSTRUCTION SITE, ALSO CONTRIBUTE TO OCEAN POLLUTION.

SOLUTIONS
BEST MANAGEMENT PRACTICES (BMPs) SUCH AS HANDLING, STORING, AND DISPOSING OF MATERIALS PROPERLY CAN PREVENT POLLUTANTS FROM ENTERING THE STORM DRAINS.

GENERAL BUSINESS PRACTICES
SCHEDULE EXCAVATION AND GRADING WORK FOR DRY WEATHER.
USE AS LITTLE WATER POSSIBLE FOR DUST CONTROL.

CLEAN UP SPILLS
NEVER HOSE DOWN "DIRTY" PAVEMENT OR IMPERMEABLE SURFACES WHERE FLUIDS HAVE SPILLED.
USE DRY CLEANUP METHODS (SAWDUST, KITTY LITTER, AND/OR RAGS) AND DISPOSE OF PROPERLY.
SWEEP UP DRY SPILLED MATERIALS IMMEDIATELY. NEVER ATTEMPT TO BURY THEM OR "WASH THEM AWAY" WITH WATER. CLEAN UP SPILLS ON DIRT AREAS BY DIGGING UP AND PROPERLY DISPOSING OF CONTAMINATED SOIL.
REPORT SIGNIFICANT SPILLS TO THE APPROPRIATE SPILL RESPONSE AGENCIES IMMEDIATELY.

VEHICLE AND EQUIPMENT MAINTENANCE

MAINTAIN ALL VEHICLE AND HEAVY EQUIPMENT IN GOOD WORKING ORDER AND INSPECT FREQUENTLY FOR LEAKS. CONDUCT ALL VEHICLE/EQUIPMENT MAINTENANCE AND REFUELING AT ONE LOCATION AWAY FROM STORM DRAINS. PERFORM MAJOR MAINTENANCE, REPAIR JOBS AND VEHICLE/EQUIPMENT WASHING OFF-SITE. USE GRAVEL APPROACHES WHERE TRUCK TRAFFIC IS FREQUENT, TO REDUCE SOIL COMPACTION AND LIMIT THE TRACKING OF SEDIMENT INTO STREETS.
USE DRIP PANS OR DROP CLOTHS TO CATCH DRIPS AND SPILLS IF YOU DRAIN AND REPLACE MOTOR OIL, RADIATOR COOLANT OR OTHER FLUIDS ON SITE. COLLECT ALL USED FLUIDS, STORE IN SEPARATE CONTAINERS AND RECYCLE WHENEVER POSSIBLE. OTHERWISE MAKE CERTAIN THEY ARE DISPOSED OF PROPERLY. DO NOT USE DIESEL OIL TO LUBRICATE EQUIPMENT OR PARTS. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

EROSION PREVENTION

AFTER CLEARING, GRADING OR EXCAVATING, EXPOSED SOIL POSES A CLEAR AND IMMEDIATE DANGER FOR STORMWATER POLLUTION. REVEGETATION (PERMANENT OR TEMPORARY) IS AN EXCELLENT FORM OF EROSION CONTROL FOR ANY SITE. AVOID EXCAVATION AND GRADING ACTIVITIES DURING WET WEATHER. CONSTRUCT DIVERSION DIKES TO CHANNEL RUNOFF AROUND THE SITE. LINE CHANNELS WITH GRASS OR ROUGHENED PAVEMENT TO REDUCE RUNOFF VELOCITY. COVER STOCKPILES AND EXCAVATED SOIL WITH SECURED TARPS OR PLASTIC SHEETING. REMOVE EXISTING VEGETATION ONLY WHEN ABSOLUTELY NECESSARY. LARGE PROJECTS SHOULD BE CONDUCTED IN PHASES. CONSIDER PLANTING TEMPORARY VEGETATION FOR EROSION CONTROL ON SLOPES OR WHERE CONSTRUCTION IS NOT IMMEDIATELY PLANNED. PLANT PERMANENT VEGETATION AS SOON AS POSSIBLE. ONCE EXCAVATION AND GRADING ACTIVITIES ARE COMPLETE.



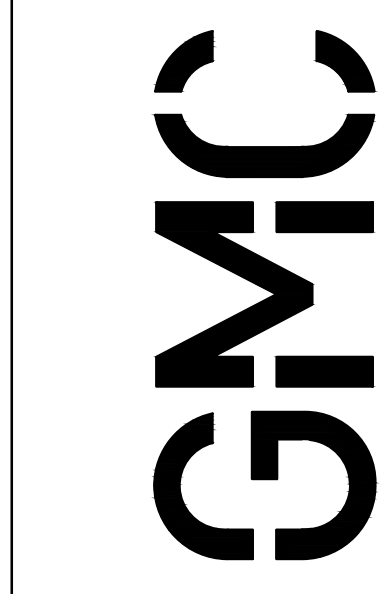
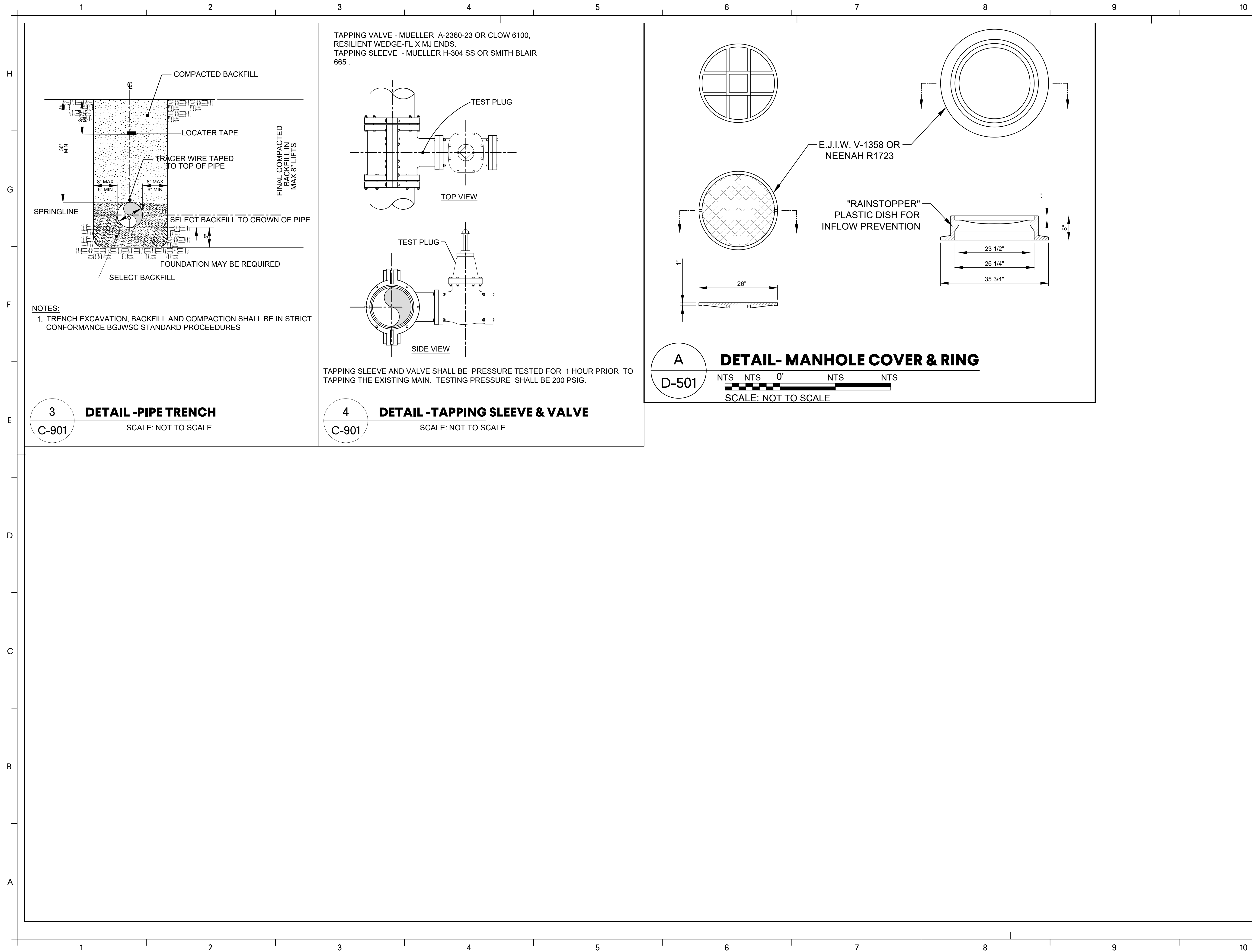
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

2019 WPCF REHABILITATION
ACADEMY CREEK
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BGJWSC Project No. 906
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EROSION AND SEDIMENT CONTROL DETAILS
C-510



ISSUE	DATE
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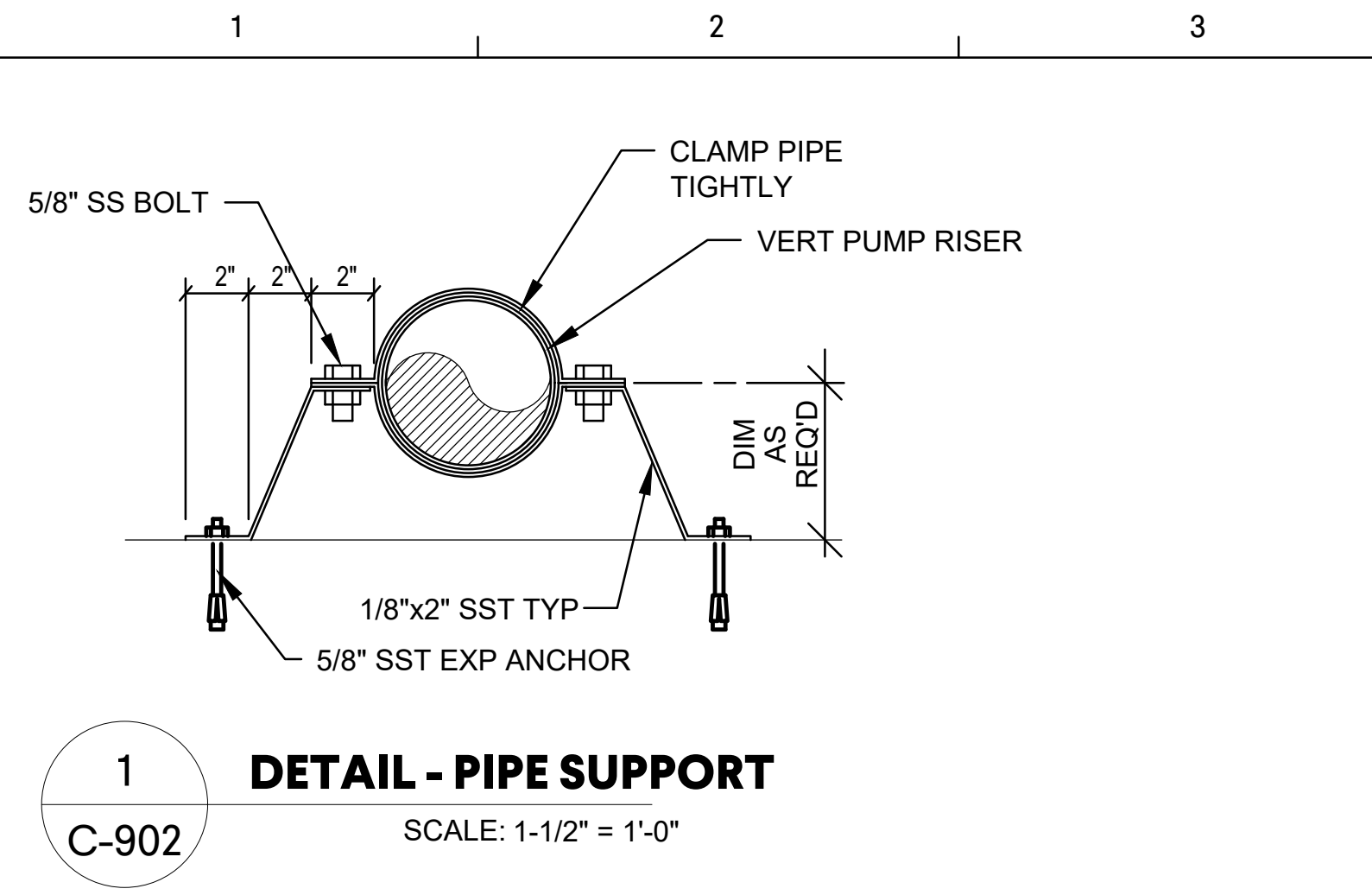
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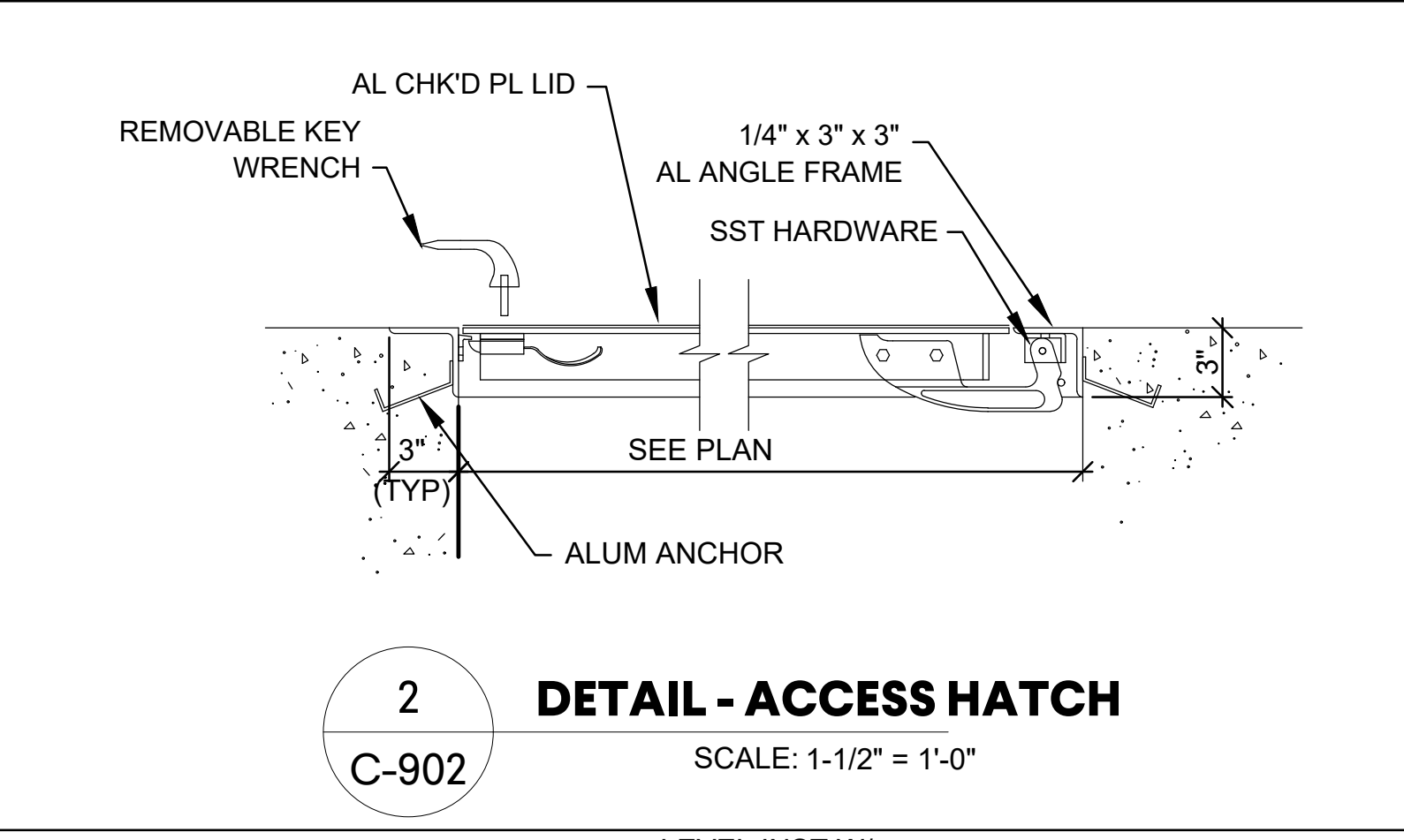


CIVIL / SITE DETAILS

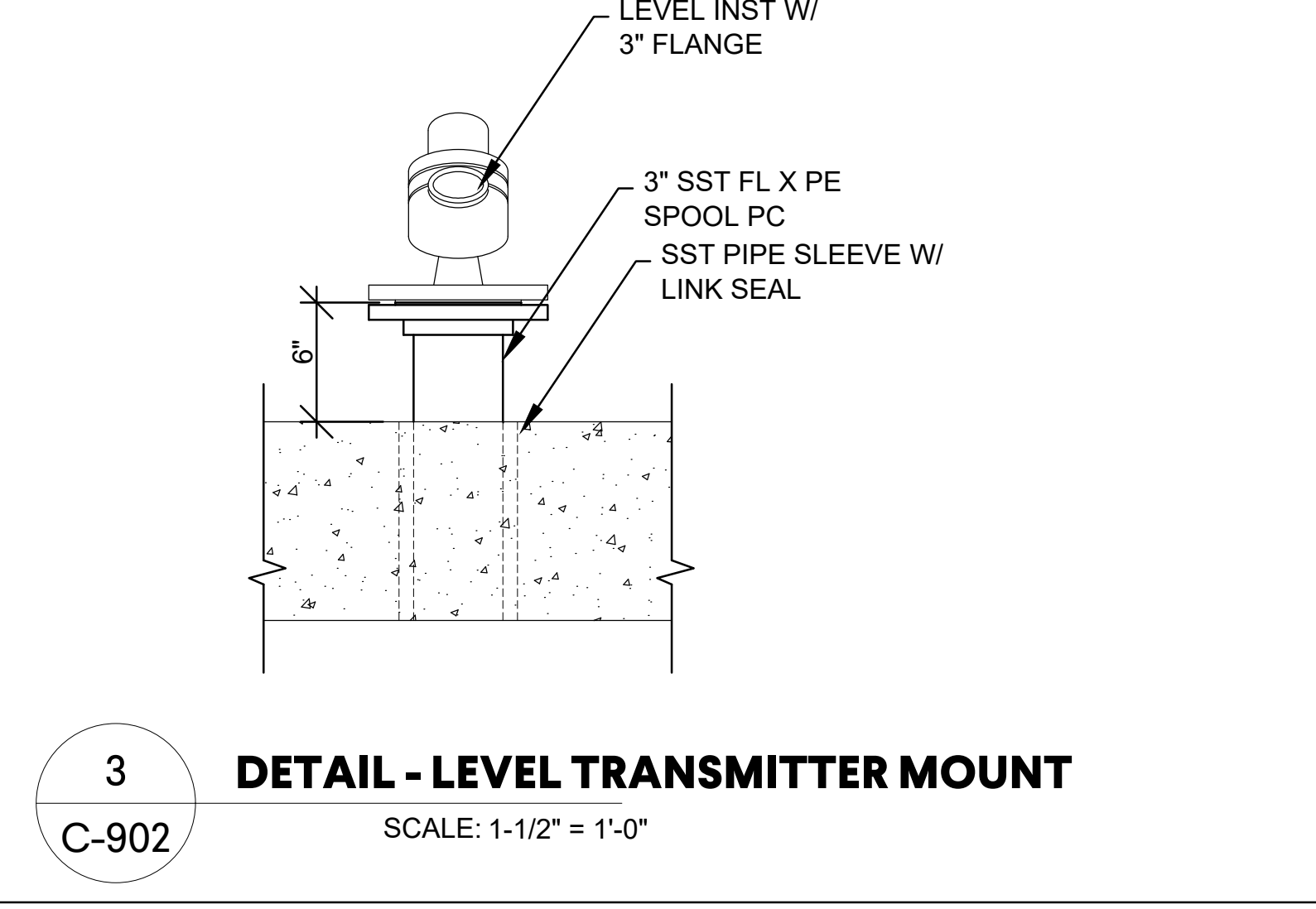
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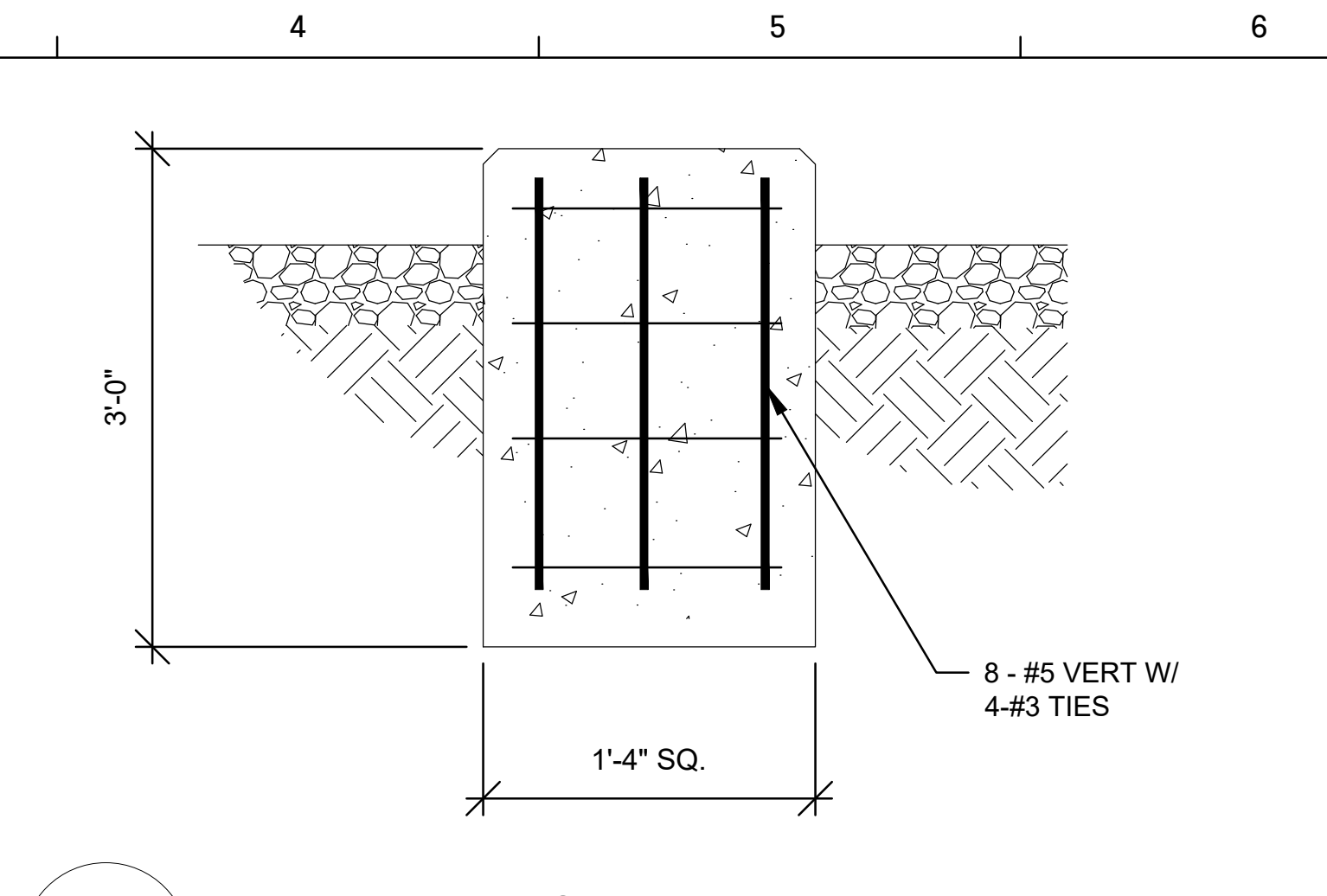
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C-902
DETAIL - PIPE SUPPORT
SCALE: 1-1/2" = 1'-0"



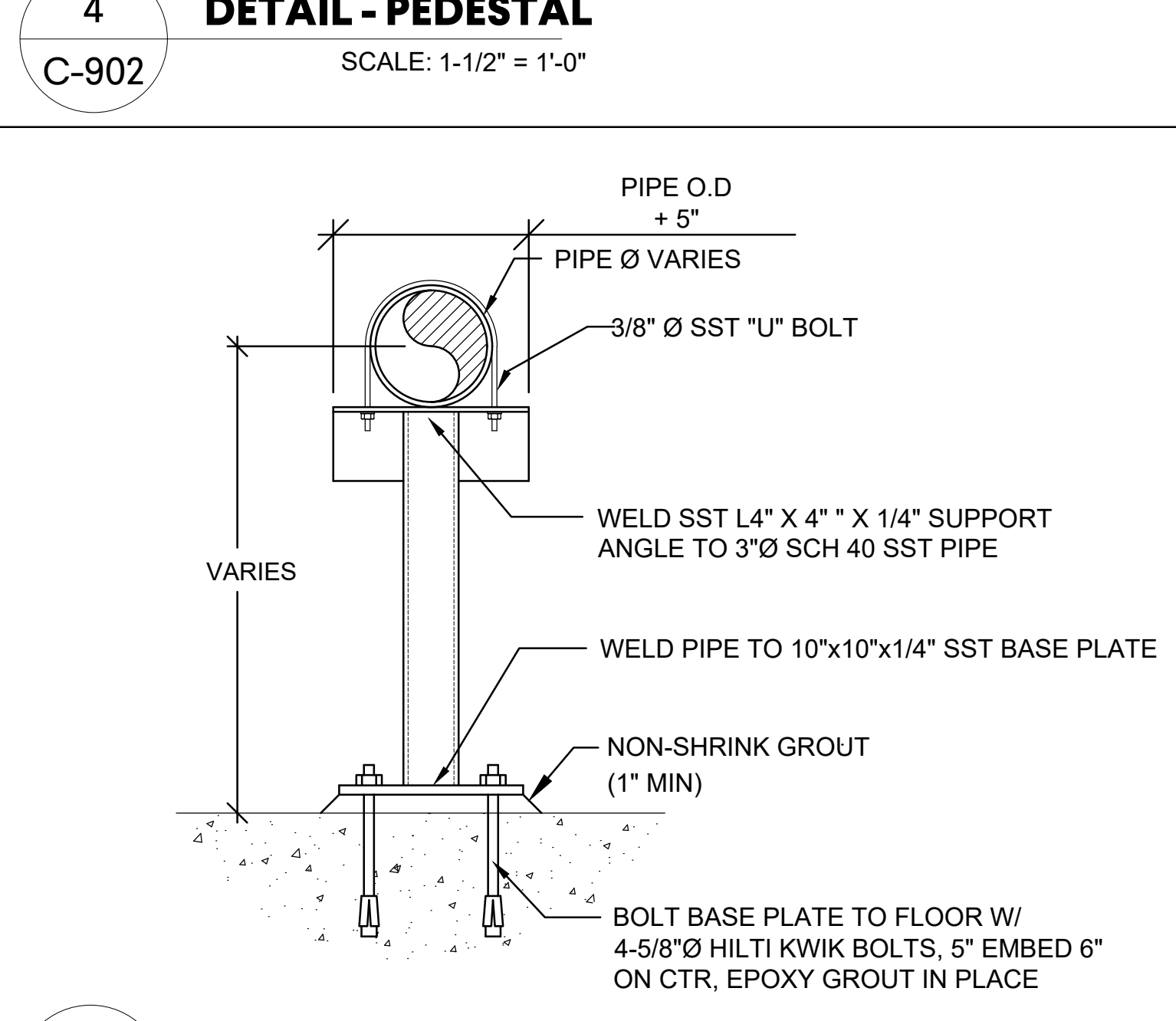
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C-902
DETAIL - ACCESS HATCH
SCALE: 1-1/2" = 1'-0"



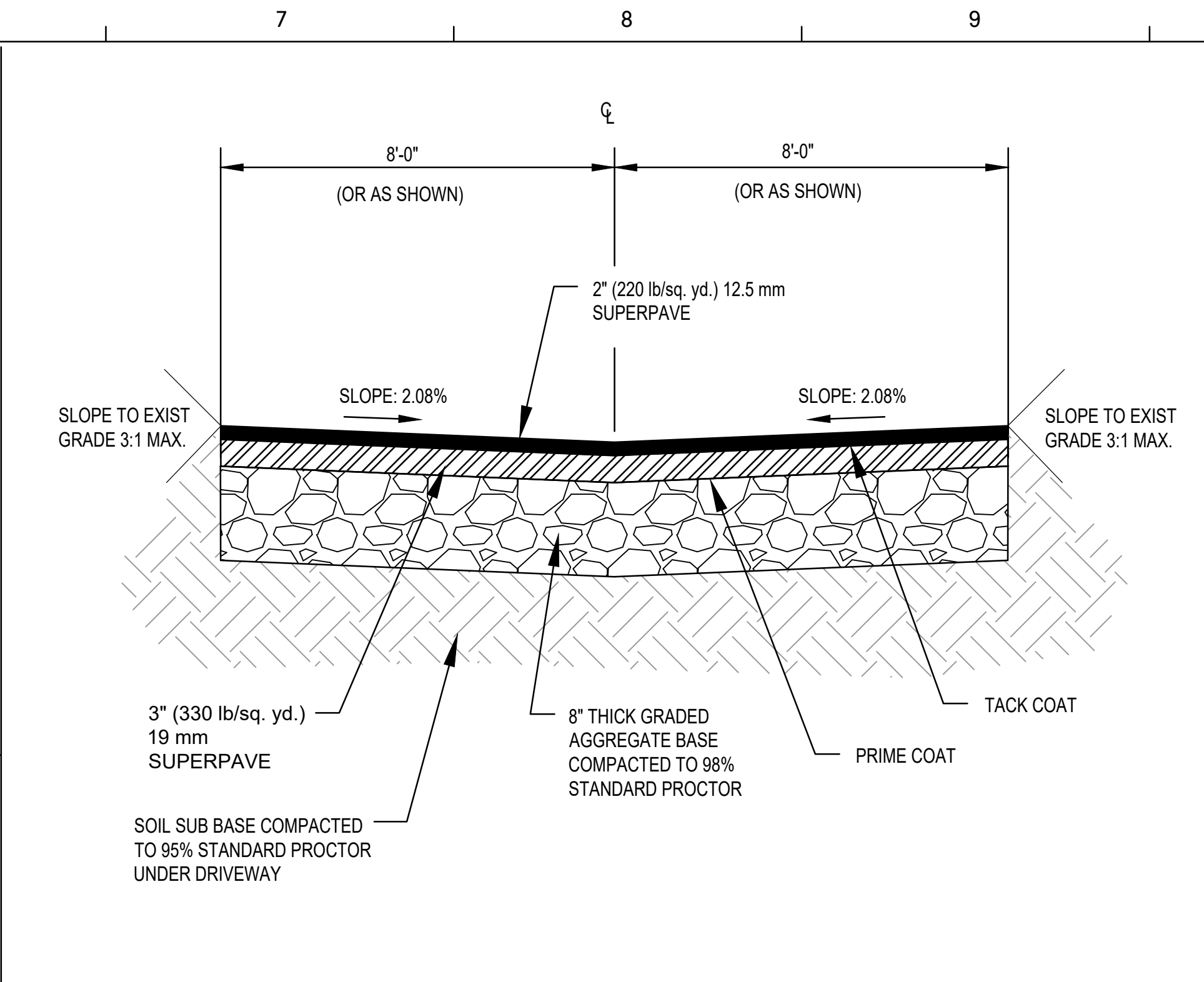
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C-902
DETAIL - LEVEL TRANSMITTER MOUNT
SCALE: 1-1/2" = 1'-0"



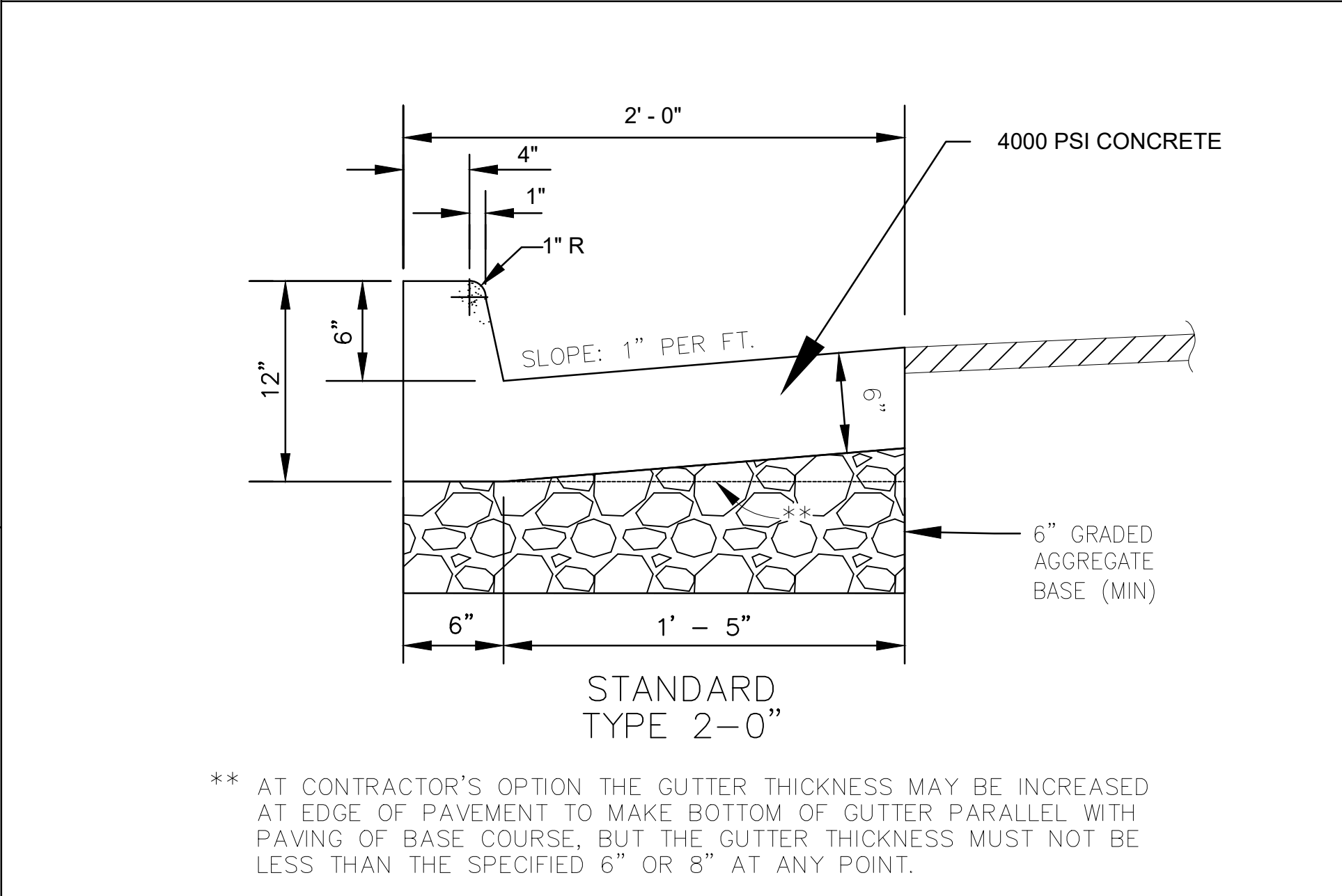
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C-902
DETAIL - PEDESTAL
SCALE: 1-1/2" = 1'-0"



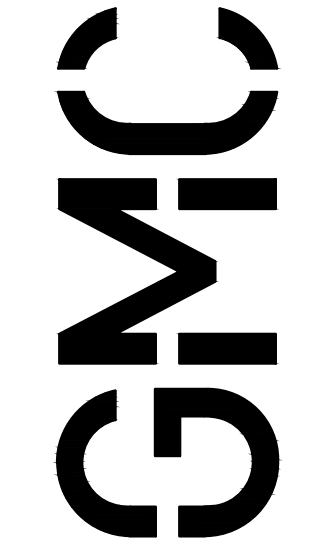
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C-902
DETAIL - PIPE SUPPORT
SCALE: 1-1/2" = 1'-0"



STA. 0+10 TO STA. 10+05
6
C-901
DETAIL - ASPHALT PAVING
SCALE: N.T.S.



7
C-901
DETAIL - CURB & GUTTER
SCALE: N.T.S.




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30% SUBMITTAL	09.09.2019	GS/AJ
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ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	GS/AJ	

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

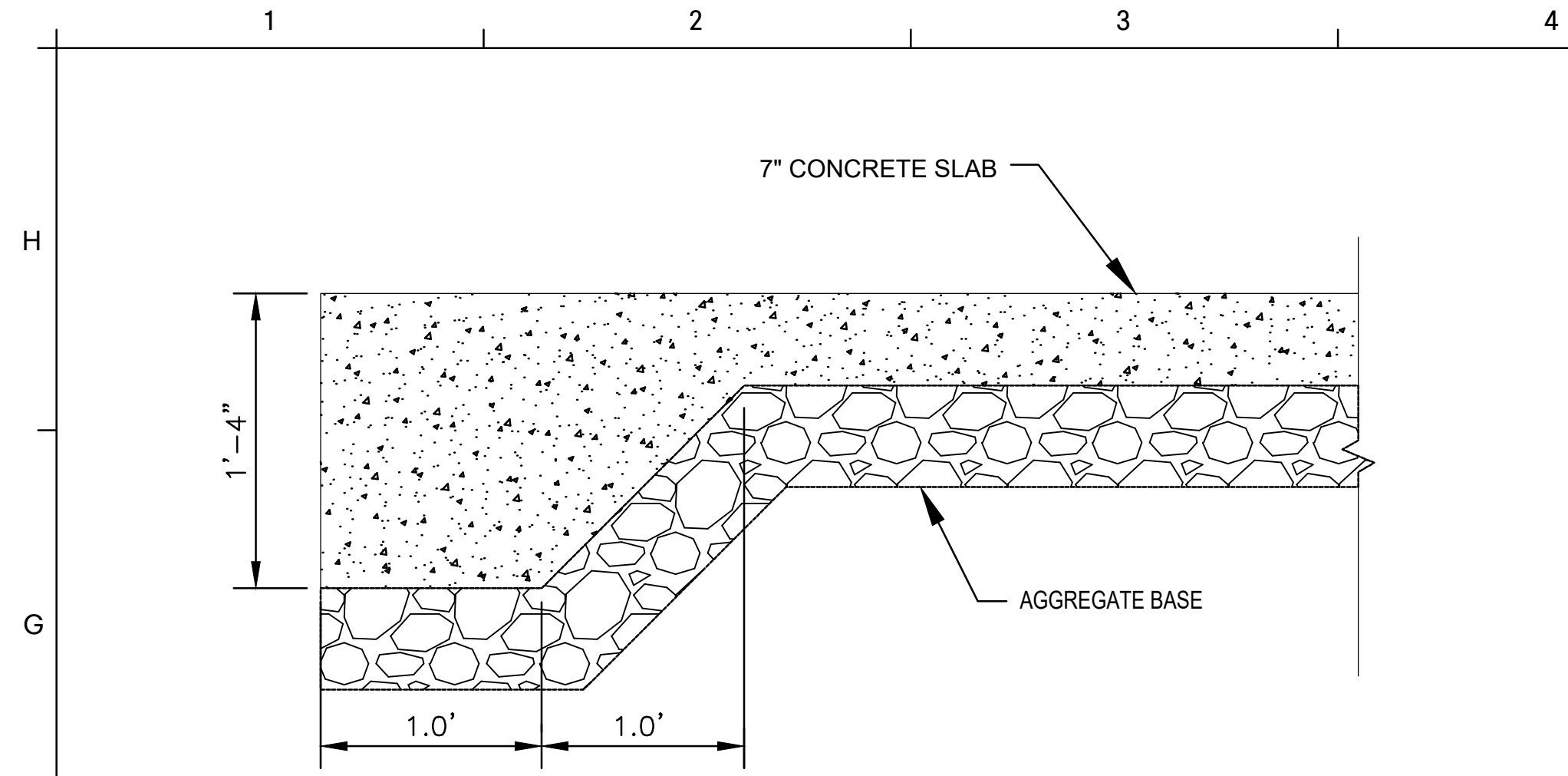
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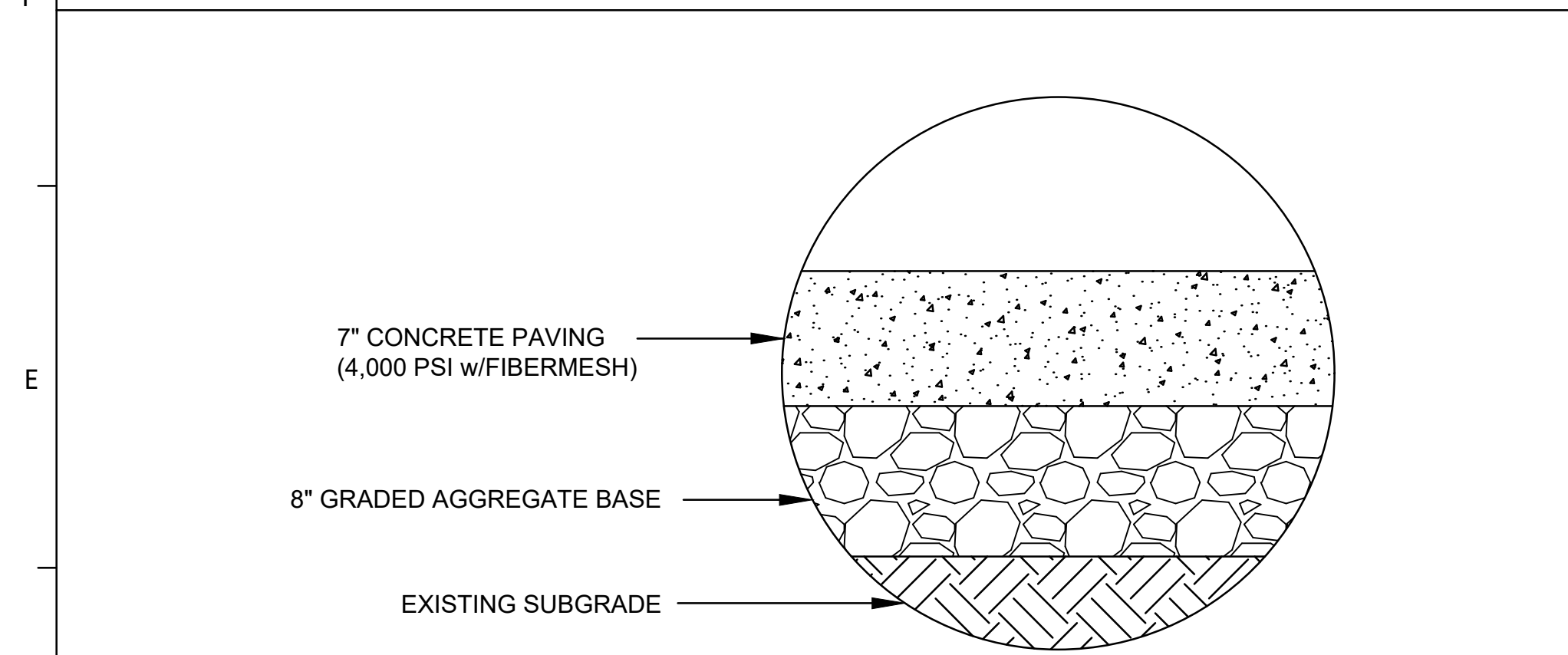


CIVIL / SITE
DETAILS

C-902



1
C-903 **DETAIL - CONCRETE TURN DOWN**
SCALE: N.T.S.



STA. 10+05 TO STA. 11+81
2
C-903 **DETAIL - CONCRETE PAVING**
SCALE: N.T.S.

CIVIL / SITE
DETAILS

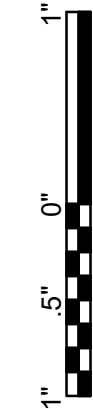
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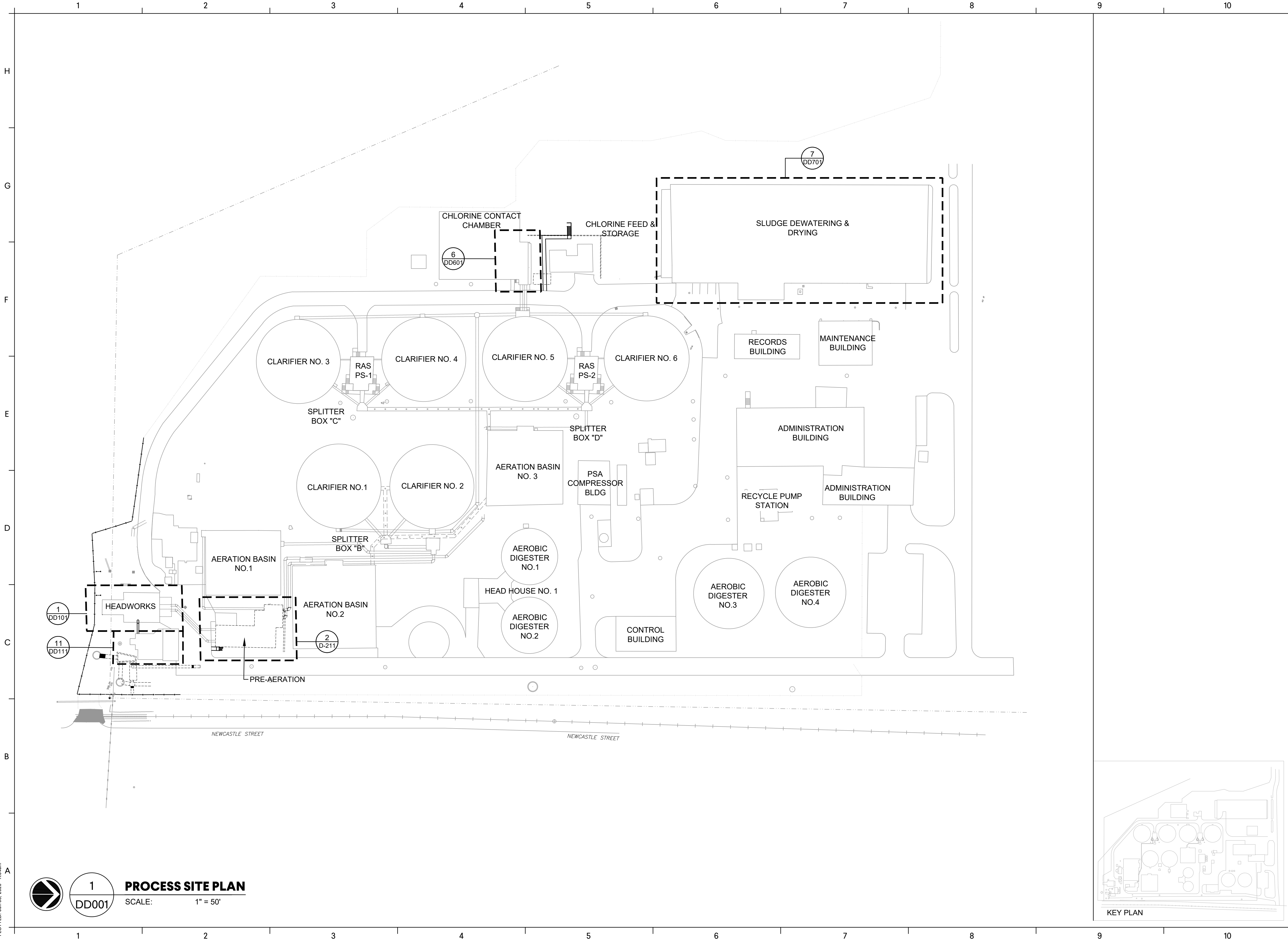
2019 WPCF REHABILITATION
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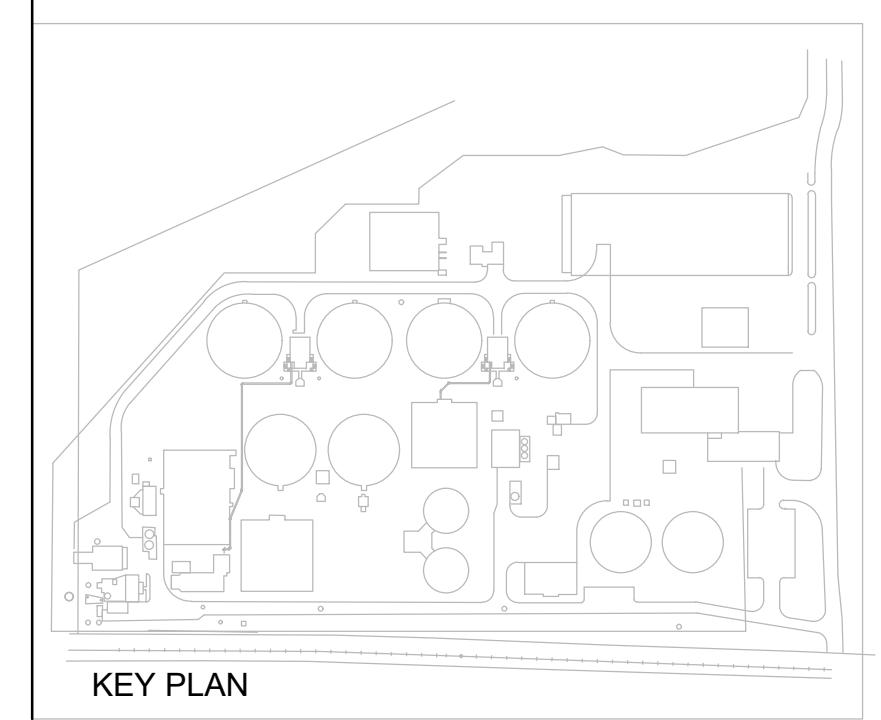
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1
DD001 **PROCESS SITE PLAN**
SCALE: 1" = 50'

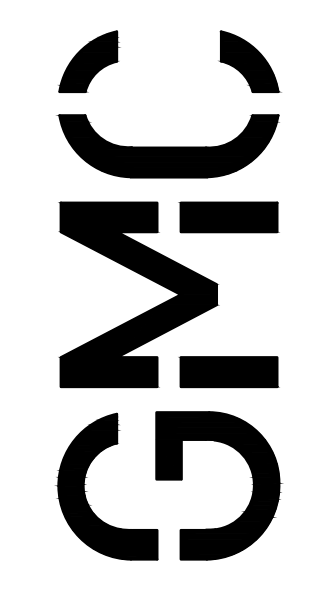


DEMO SITE PLAN - KEY

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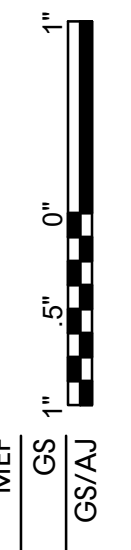
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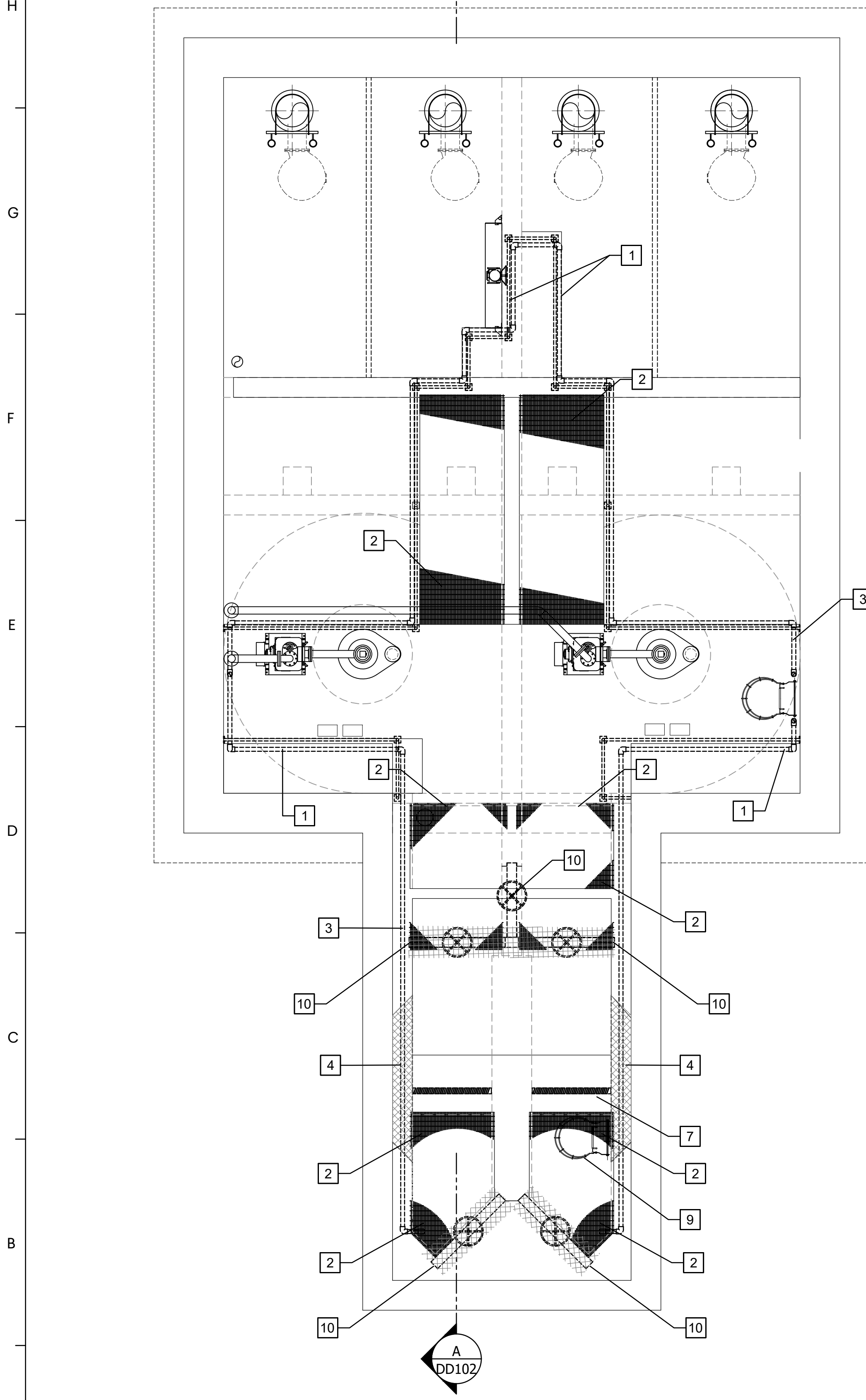
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DD001

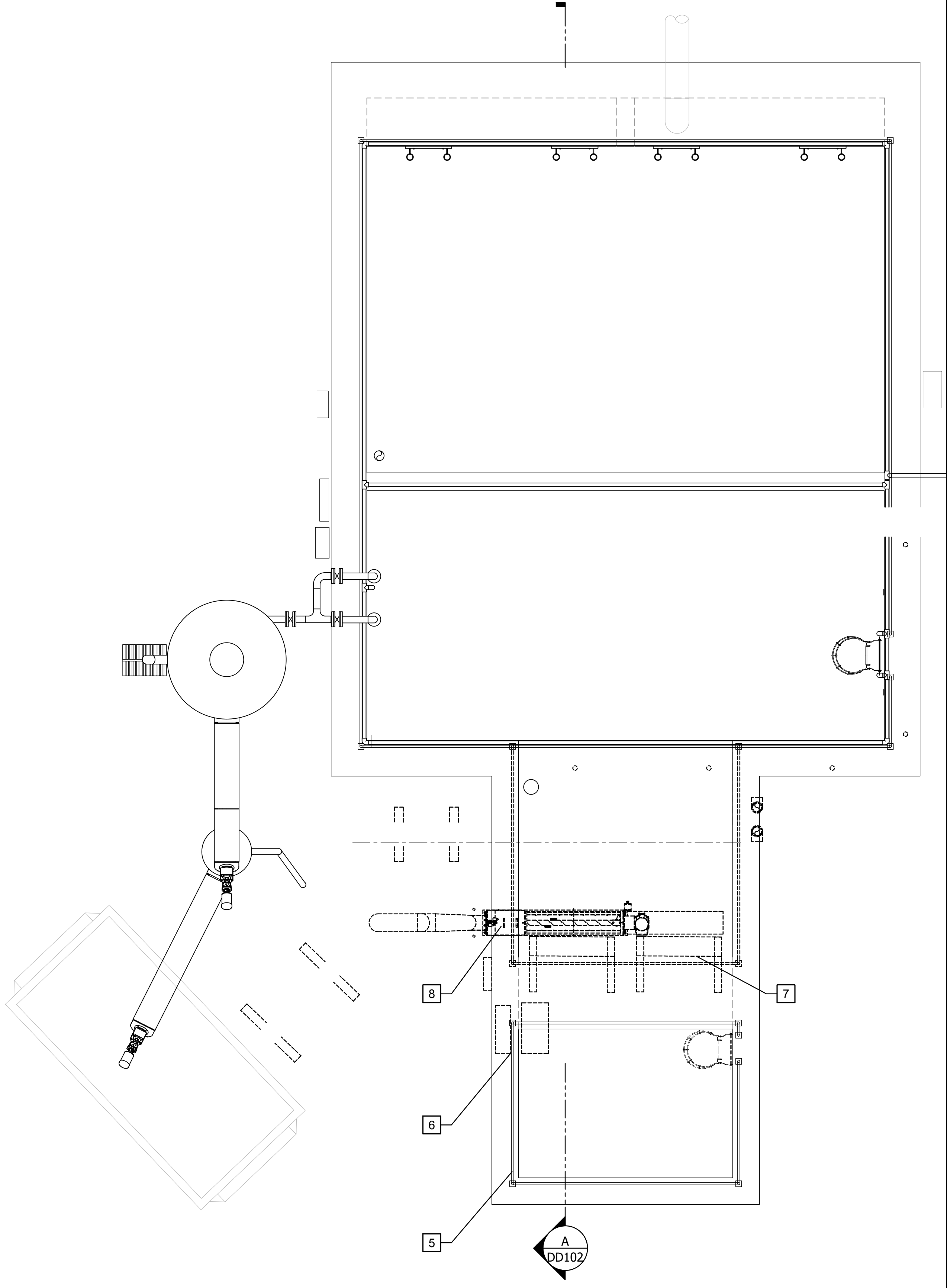


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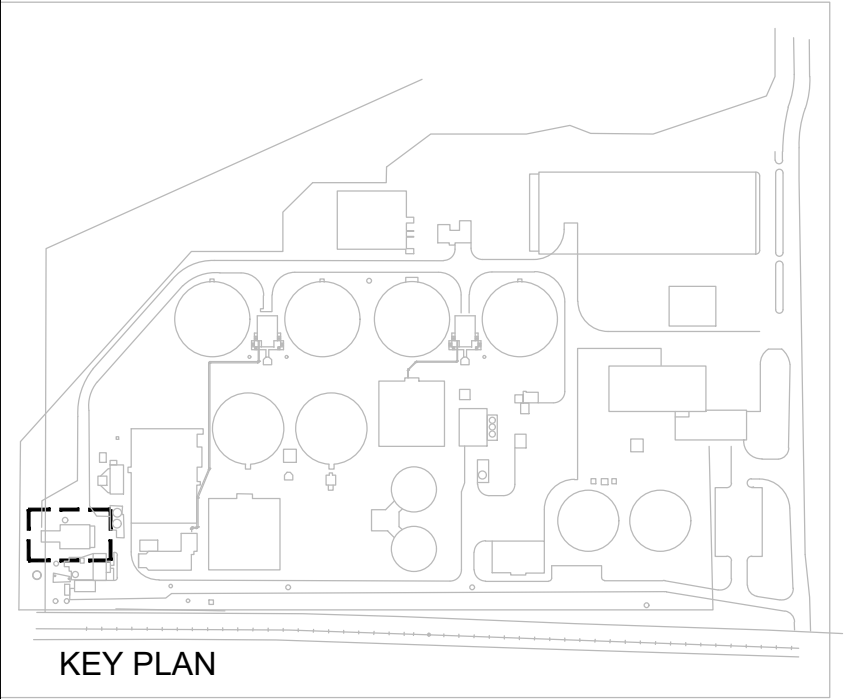


1 LOWER LEVEL DEMOLITION PLAN
DD001 SCALE: 1/4" = 1'-0"



2 UPPER LEVEL DEMOLITION PLAN
DD001 SCALE: 1/4" = 1'-0"

- KEY NOTES:** #
1. REMOVE EXISTING HANDRAIL & PIPING
 2. REMOVE EXISTING GRATING
 3. REMOVE EXISTING PIPING
 4. REMOVE CHANNEL IN-FILL TO LIMITS SHOWN
 5. REMOVE EXISTING HANDRAIL
 6. REMOVE EXISTING SCREEN CONTROLS
 7. REMOVE EXISTING MECHANICAL BAR SCREENS
 8. REMOVE EXISTING WASHER/COMPACTER & DISCHARGE PIPING
 9. REMOVE PORTION OF EXISTING LADDER & CAGE TO CLEAR NEW COVER
 10. REMOVE EXISTING SLIDE GATE



2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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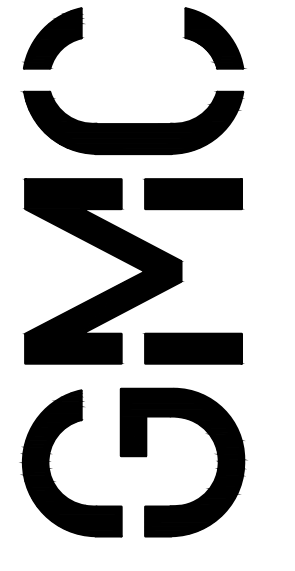


**HEADWORKS
UPPER & LOWER LEVEL
DEMOLITION PLAN**

DD101

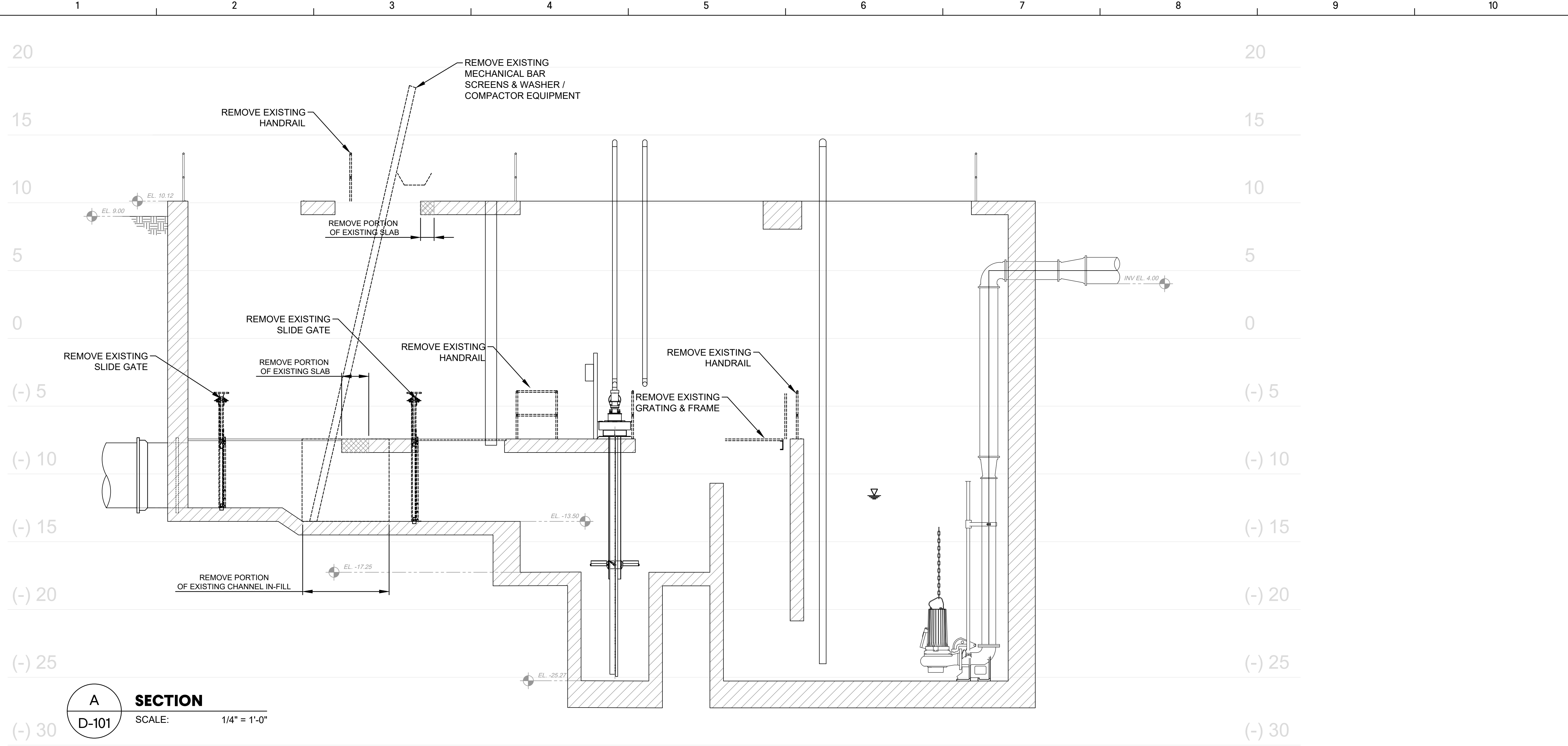
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CONSTRUCTION SUBMITTAL	06.15.2020
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ENGINEER:	MEF
DESIGNER:	GS
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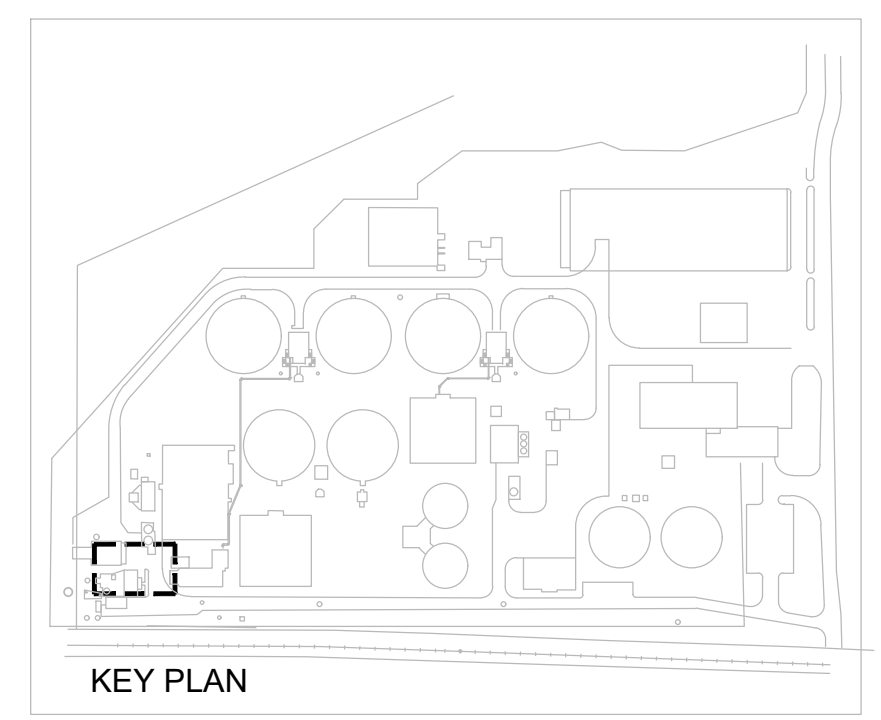


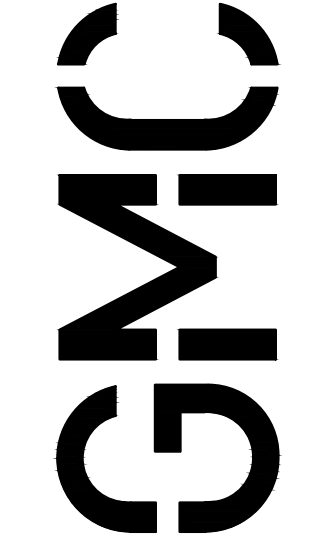
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A SECTION
D-101 SCALE: 1/4" = 1'-0"






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PROJECT MANAGER: JCY
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ



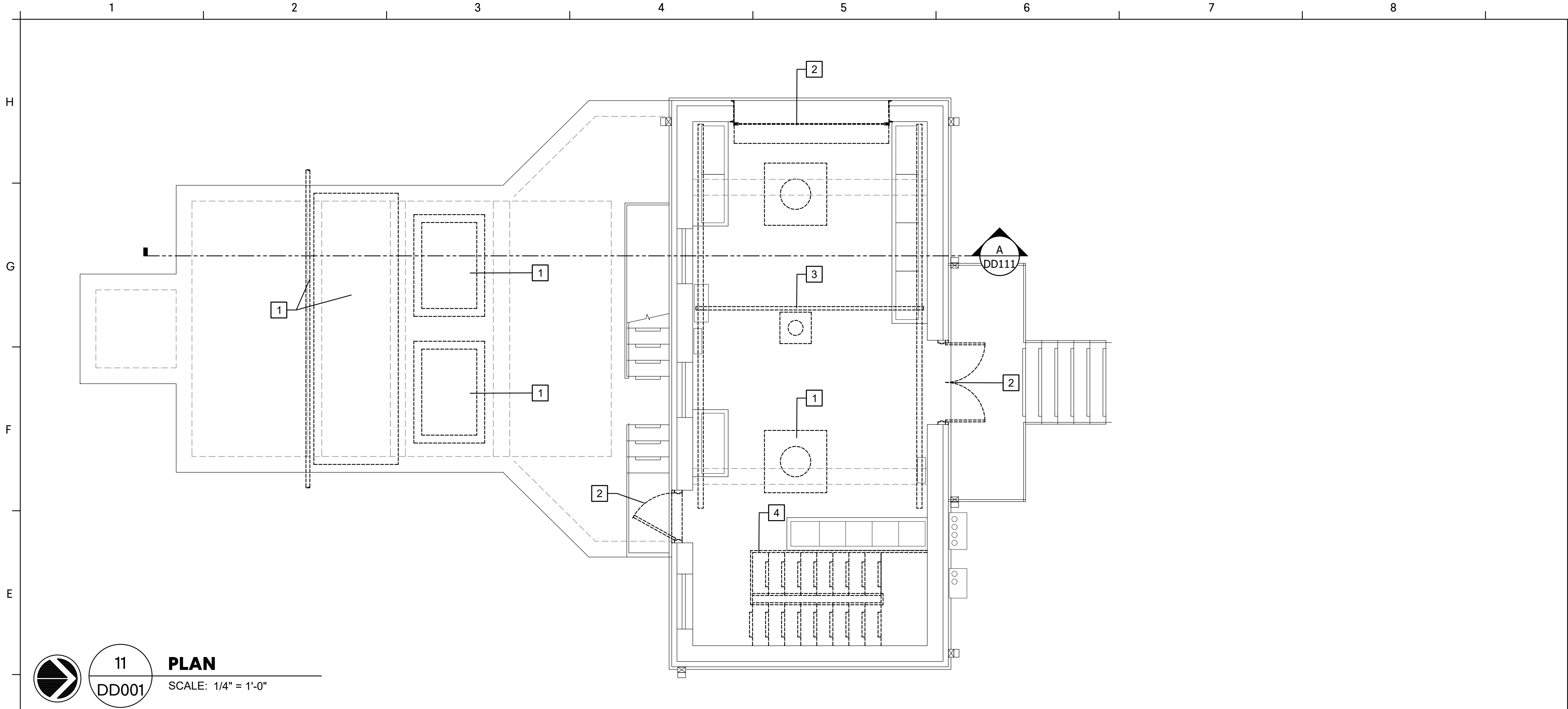
2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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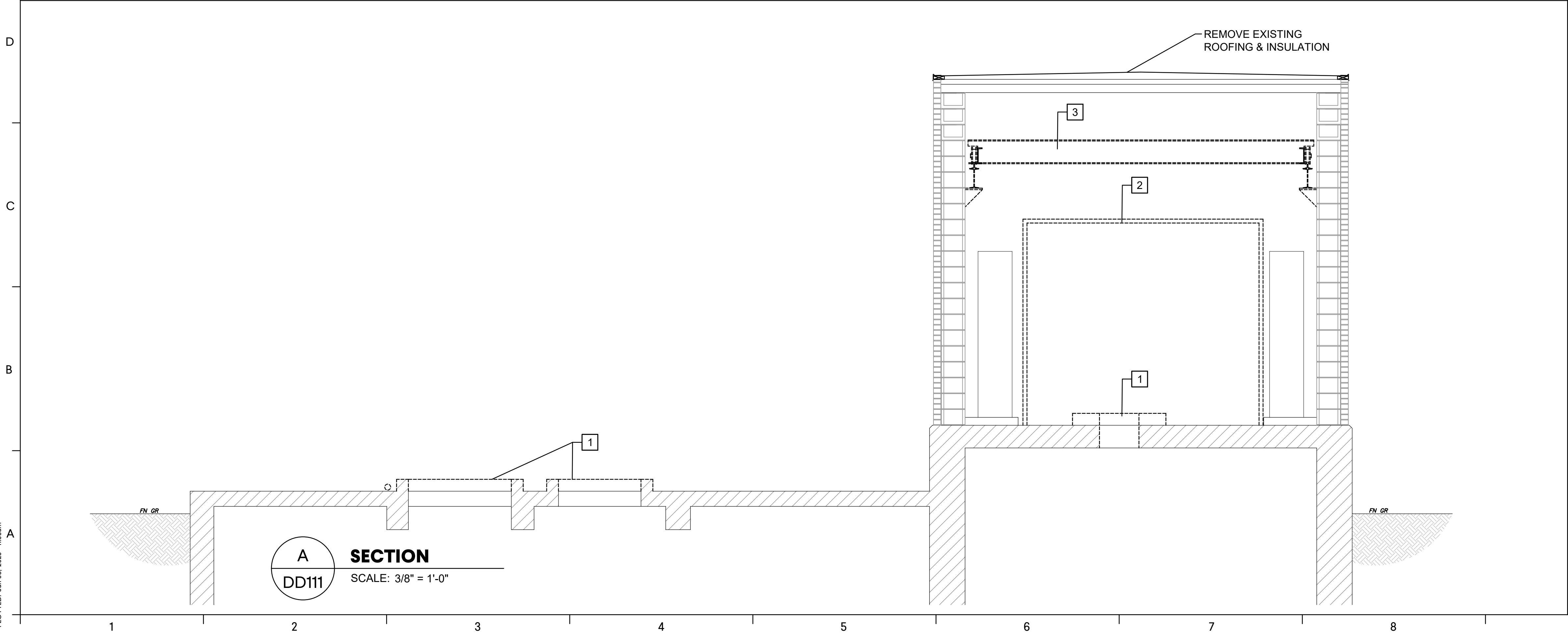
HEADWORKS DEMOLITION SECTION

DD102

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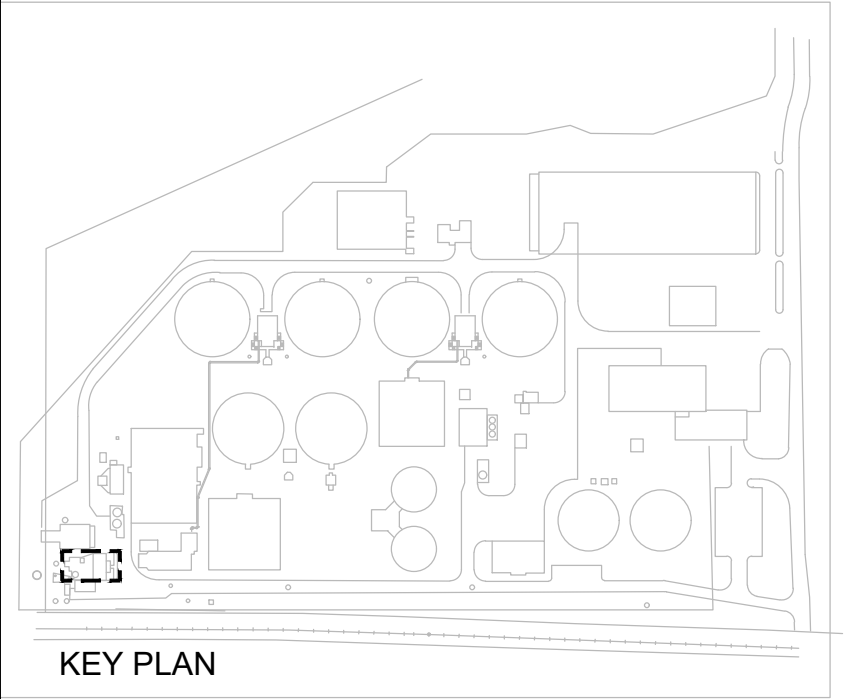


11 PLAN
 DD001 SCALE: 1/4" = 1'-0"



A SECTION
 DD111 SCALE: 3/8" = 1'-0"

- KEY NOTES:**
1. REMOVE EXISTING CURB AND COVER
 2. REMOVE DOOR & FRAME
 3. REMOVE EXISTING BRIDGE CRANE & CORBEL SUPPORT
 4. REMOVE EXISTING HANDRAIL AND PORTION OF EXISTING STAIRWELL AS REQUIRED TO INSTALL SLAB OVER OPENING



2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
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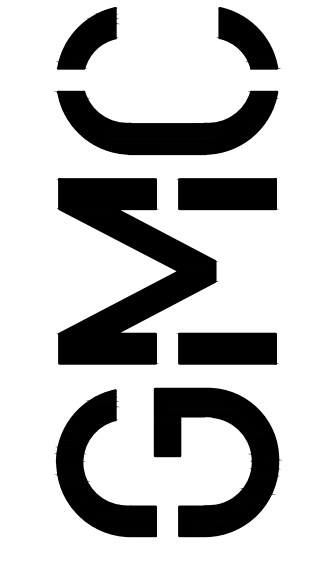


MCC BUILDING
DEMOLITION PLAN
& SECTION

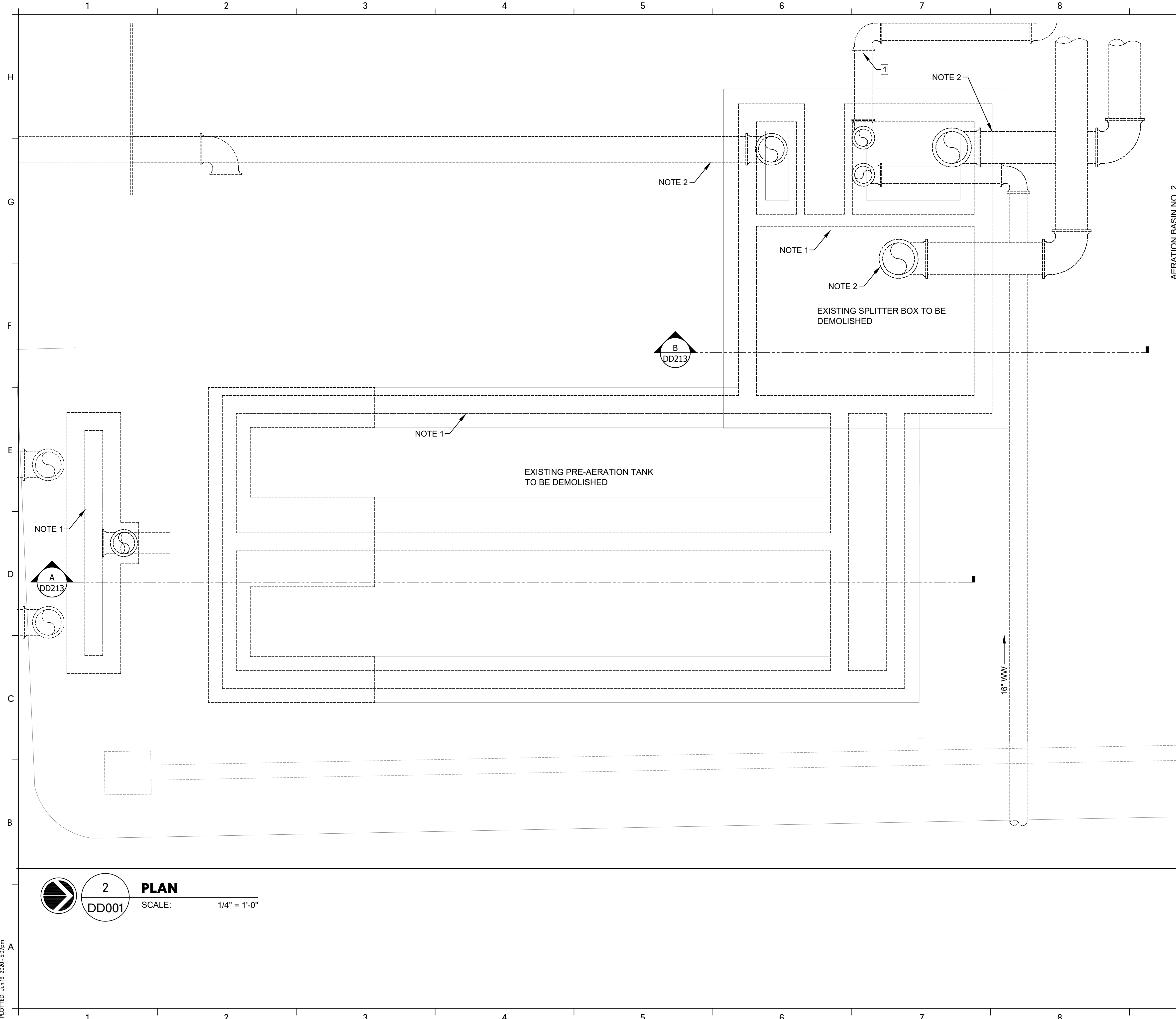
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70% SUBMITTAL	12.16.2019
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CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
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DESIGNER:	GS
DRAWN BY:	GS/AJ

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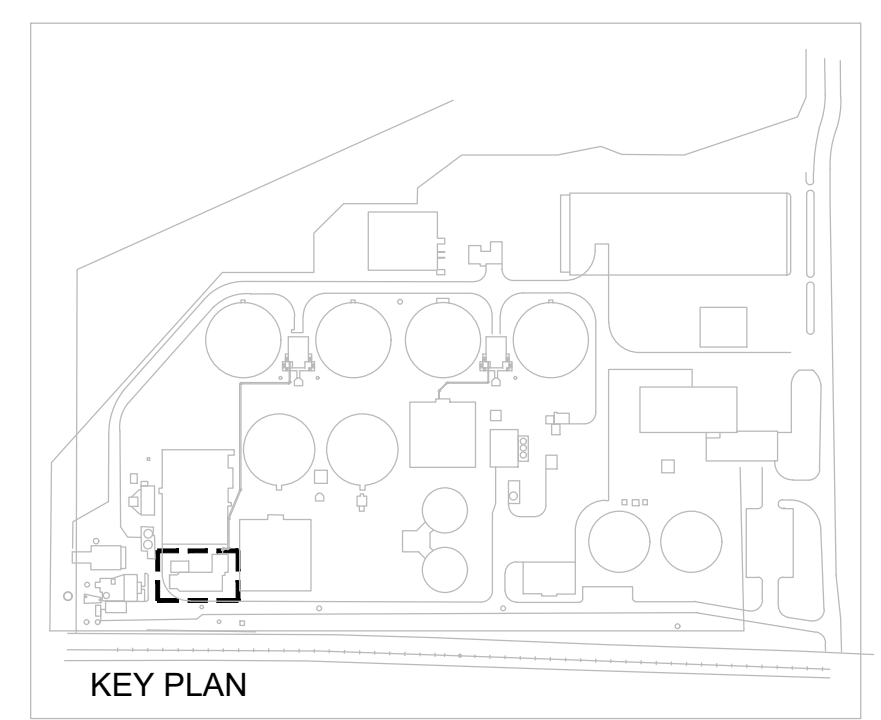
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PLOTTED: Jun 16, 2024 - 5:07pm



- NOTES:**
- REMOVE EXISTING PRE-AERATION STRUCTURE AND FLOW-SPLIT STRUCTURE TO 2' BELOW EXISTING GRADE LINE. FRACTURE REMAINING STRUCTURE BOTTOMS TO PROVIDE DRAINAGE AND BACKFILL.
 - REMOVE ALL PIPING AND EQUIPMENT TO 2' BELOW EXISTING GRADE LINE WITHIN LIMITS OF DEMOLITION. CAP EXISTING PIPES AND UTILITIES WHICH REMAIN.
 - SEE SPECIFICATION 024119 FOR SELECTIVE DEMOLITION REQUIREMENTS.
 - EXISTING CONCRETE MATERIALS MAY BE USED IN BACKFILL IF SIZE OF DEMOLISHED MATERIAL IS REDUCED TO 3 INCHES NOMINAL. REMAINING MATERIALS SHALL BE DISPOSED OF BY CONTRACTOR OFF-SITE.

- KEYED NOTES:**
- PROVIDE BLIND FLANGES OR PERMANENT PLUGS FOR PIPE LEAVING THE EXISTING STRUCTURE TO BE DEMOLISHED.

- KEY NOTES: #**
- CORE EXISTING WALL FOR INSTALLATION OF 42" PIPE
 - CORE EXISTING WALL FOR INSTALLATION OF 16" PIPE



AERATION BASIN NO. 2

2 PLAN
DD001 SCALE: 1/4" = 1'-0"

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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PRE-AERATION TANK
LOWER LEVEL
DEMOLITION PLAN

DD211

GMC

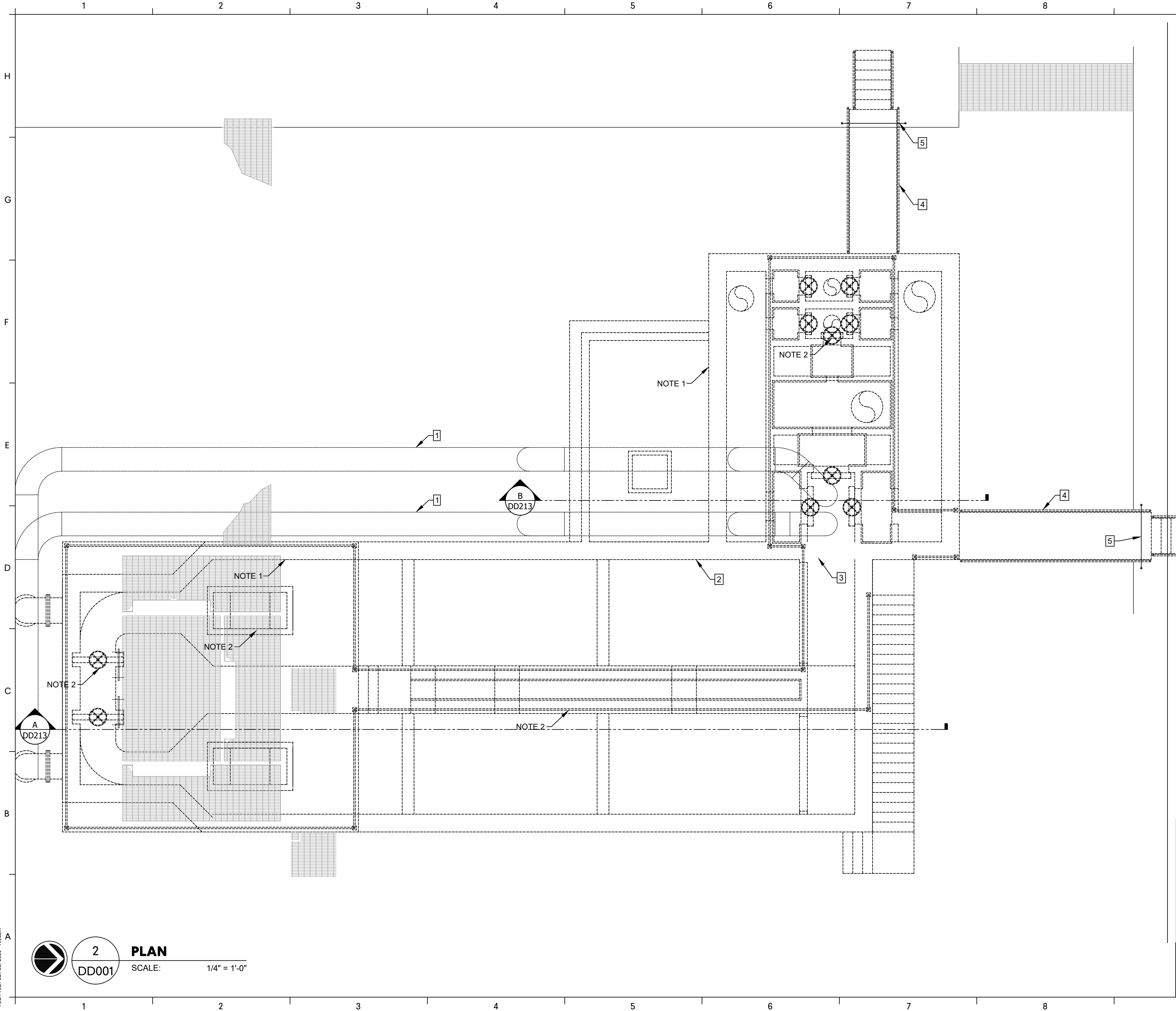
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CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

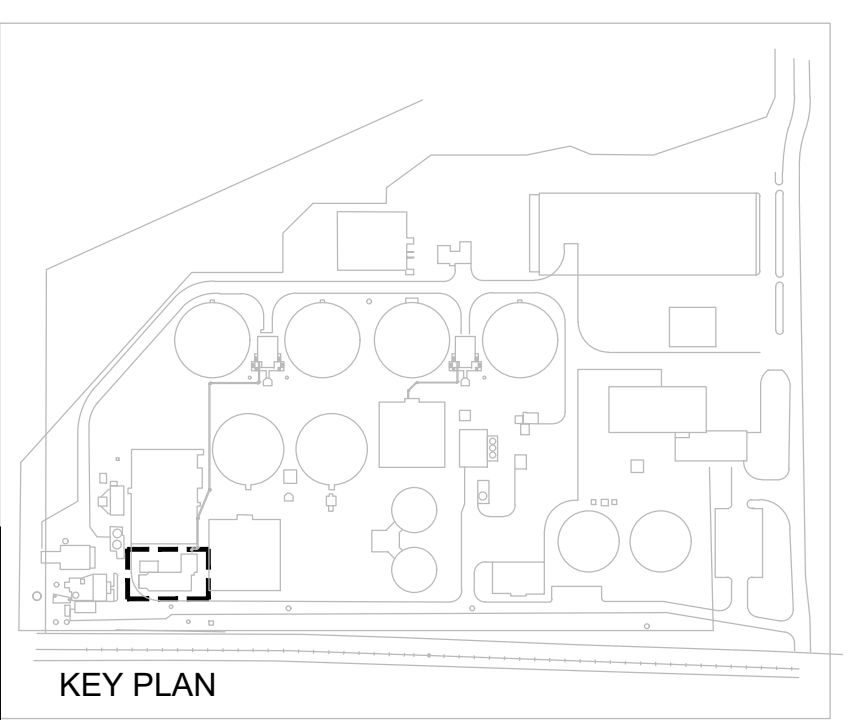
1" = 0' 5" 1"

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PLOTTED: Jun 05, 2020 - 11:05am



- NOTES:**
1. REMOVE EXISTING PREAERATION STRUCTURE AND EXISTING SPLITTER BOX STRUCTURE TO 2' BELOW EXISTING GRADE LINE. FRACTURE REMAINING STRUCTURE BOTTOMS TO PROVIDE DRAINAGE AND BACKFILL.
 2. REMOVE ALL PIPING AND EQUIPMENT TO 2' BELOW EXISTING GRADE LINE WITHIN LIMITS OF DEMOLITION. CAP EXISTING PIPES AND UTILITIES WHICH REMAIN.
 3. SEE SPECIFICATION 024119 FOR SELECTIVE DEMOLITION REQUIREMENTS.
 4. EXISTING CONCRETE MATERIALS MAY BE USED IN BACKFILL IF SIZE OF DEMOLISHED MATERIAL IS REDUCED TO 3 INCHES NOMINAL. REMAINING MATERIALS SHALL BE DISPOSED OF BY CONTRACTOR OFF-SITE.

- KEY NOTES: #**
1. TEMPORARY BYPASSING PIPING AS REQUIRED
 2. SAW CUT EXISTING WALL TO ALLOW EARLY DEMOLITION OF PRE-AERATION BASIN WHILE EXISTING SPLITTER BOX REMAINS
 3. TEMPORARY BULKHEAD WALL FOR SPLITTER BOX INLET
 4. REMOVE EXISTING ACCESS BRIDGES
 5. PROVIDE HANDRAIL CLOSURES TO MATCH EXISTING HANDRAILS



2 PLAN
DD001 SCALE: 1/4" = 1'-0"

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
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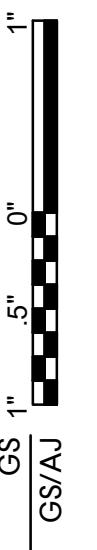
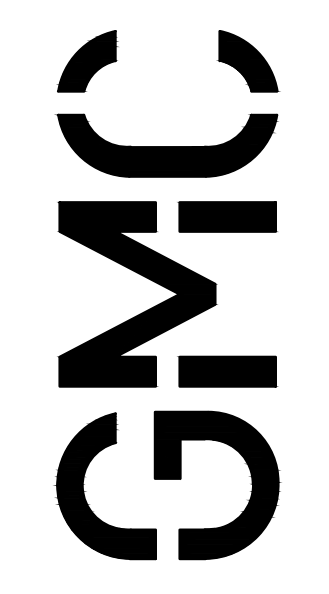
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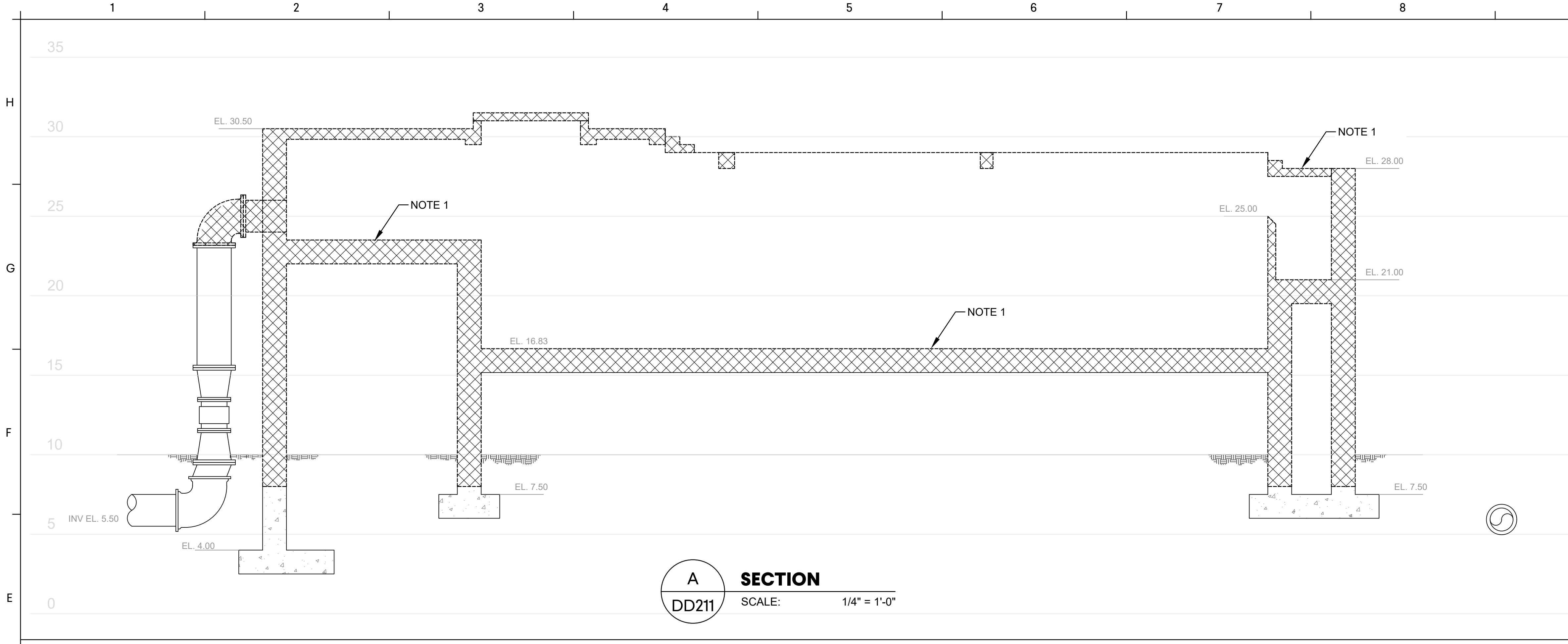


PRE-AERATION TANK
UPPER LEVEL
DEMOLITION PLAN

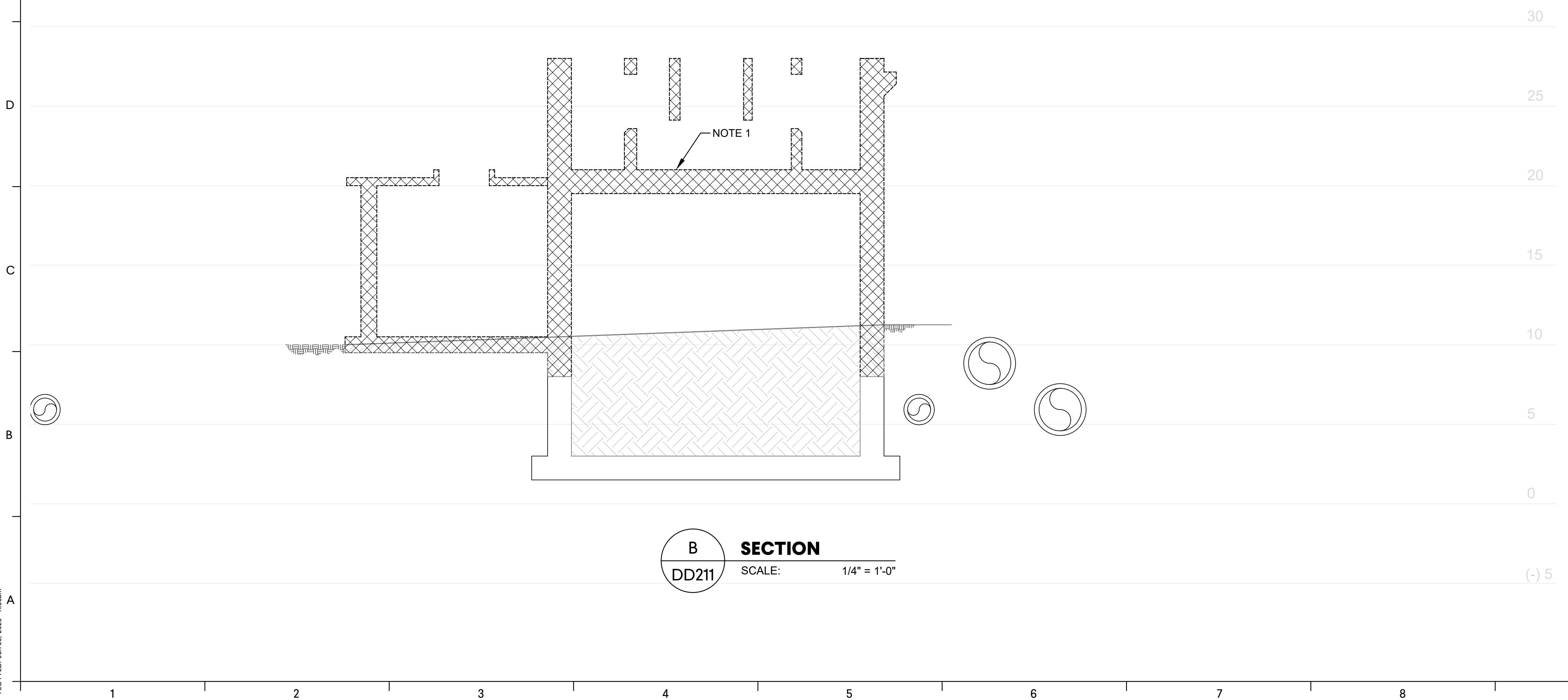
DD212



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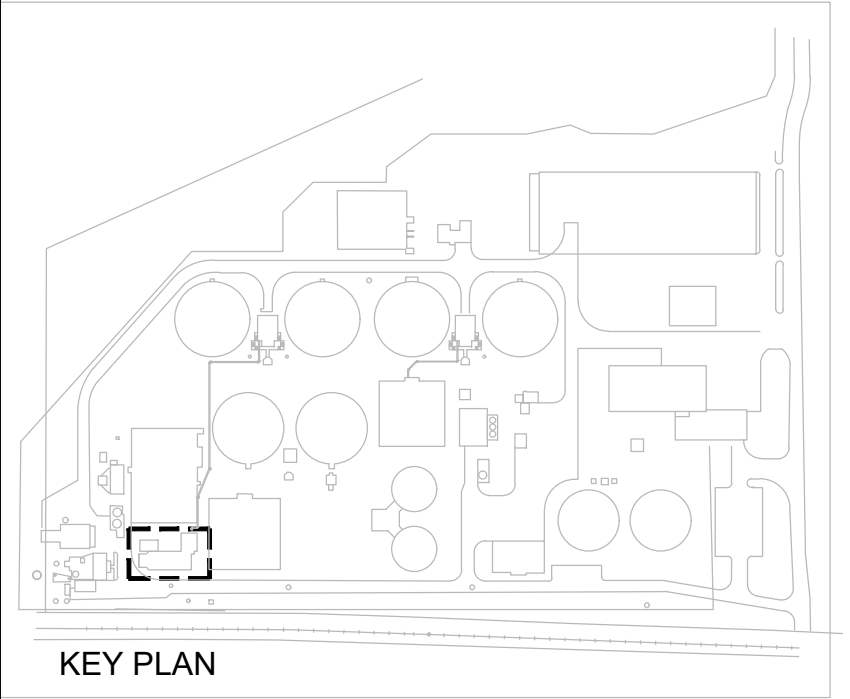


A SECTION
DD211 SCALE: 1/4" = 1'-0"



B SECTION
DD211 SCALE: 1/4" = 1'-0"

- NOTES:**
1. REMOVE EXISTING PREAERATION STRUCTURE AND EXISTING SPLITTER BOX STRUCTURE TO 2' BELOW EXISTING GRADE LINE. FRACTURE REMAINING STRUCTURE BOTTOMS TO PROVIDE DRAINAGE AND BACKFILL.
 2. REMOVE ALL PIPING AND EQUIPMENT TO 2' BELOW EXISTING GRADE LINE WITHIN LIMITS OF DEMOLITION. CAP EXISTING PIPES AND UTILITIES WHICH REMAIN.
 3. SEE SPECIFICATION 024119 FOR SELECTIVE DEMOLITION REQUIREMENTS.
 4. EXISTING CONCRETE MATERIALS MAY BE USED IN BACKFILL IF SIZE OF DEMOLISHED MATERIAL IS REDUCED TO 3 INCHES NOMINAL. REMAINING MATERIALS SHALL BE DISPOSED OF BY CONTRACTOR OFF-SITE.



**PRE-AERATION TANK
DEMOLITION SECTIONS**

**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

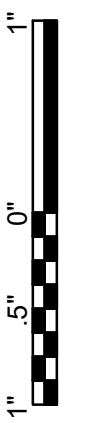
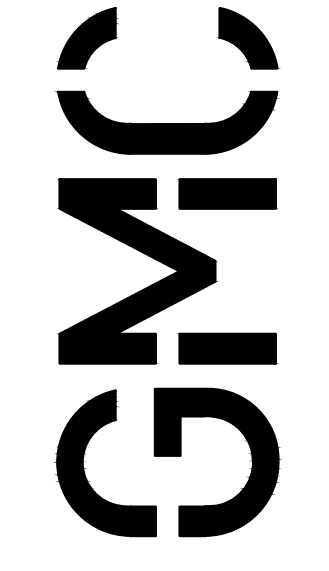


DD213

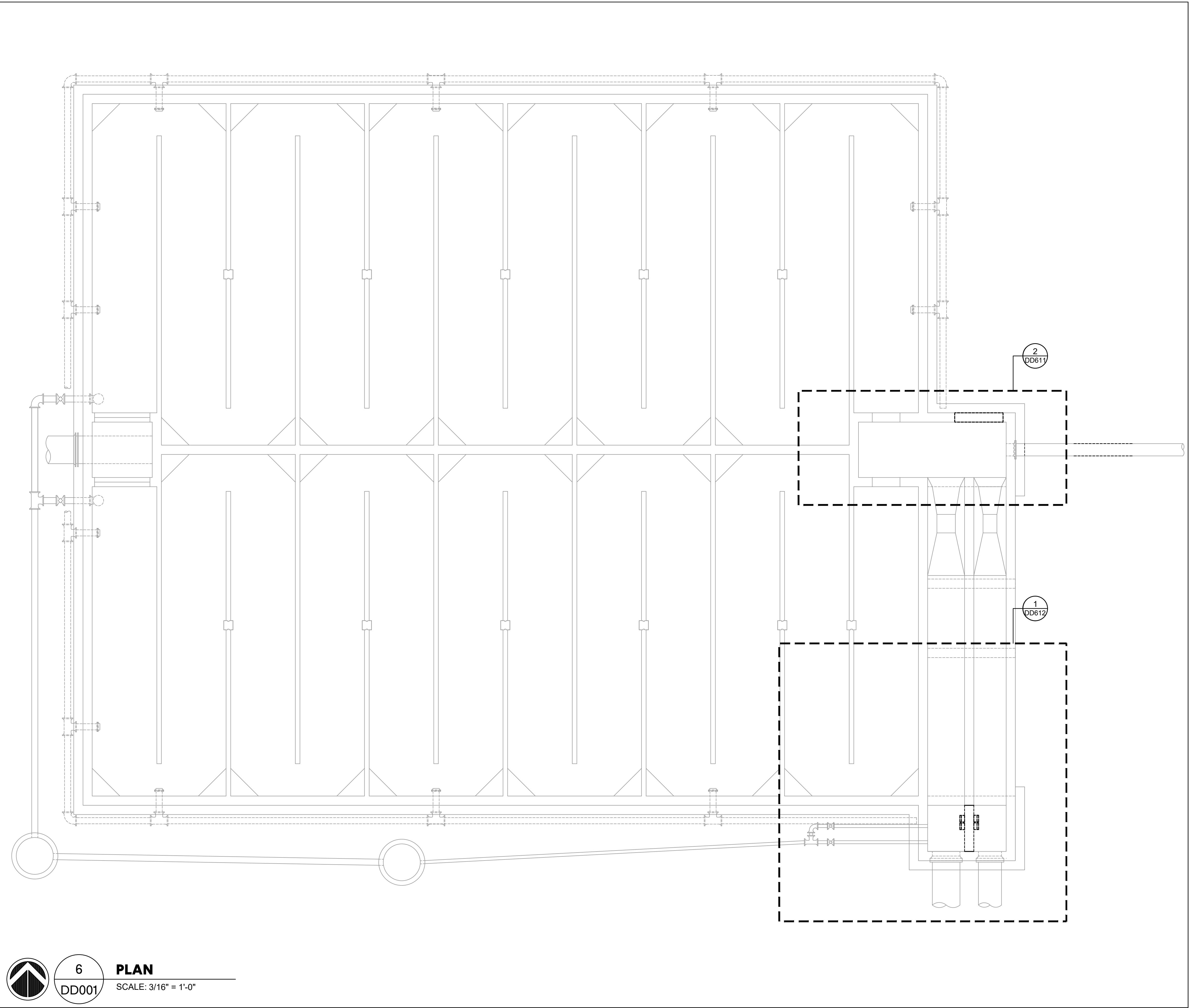
ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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Savannah, GA 31401

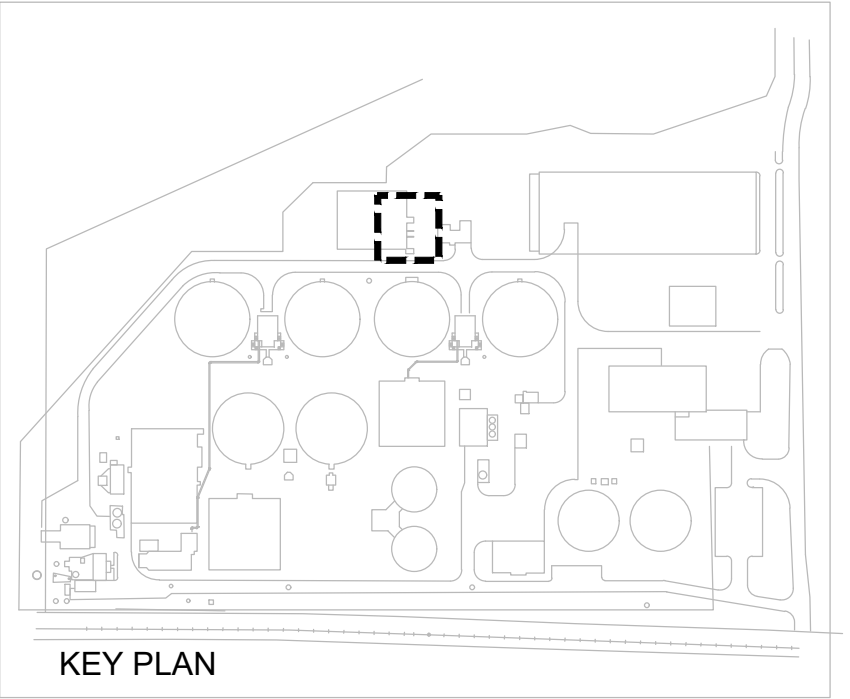
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PLOTTED: Jun 05, 2024 - 11:05am



6 PLAN
DD001 SCALE: 3/16" = 1'-0"



KEY PLAN

**CHLORINE CONTACT
CHAMBER DEMO - KEY**

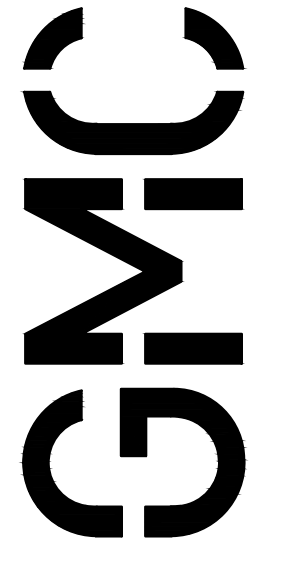
DD601

**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

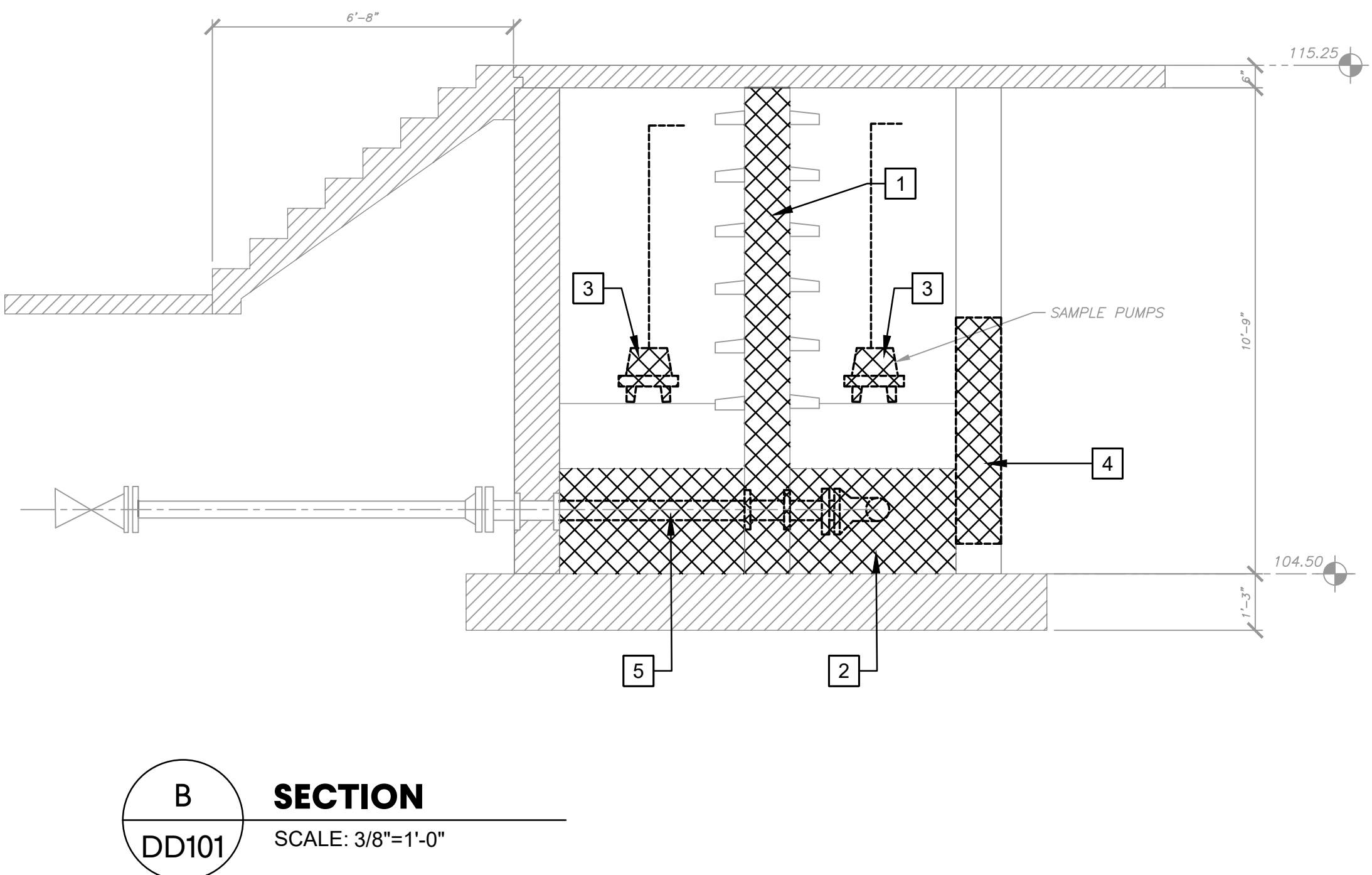
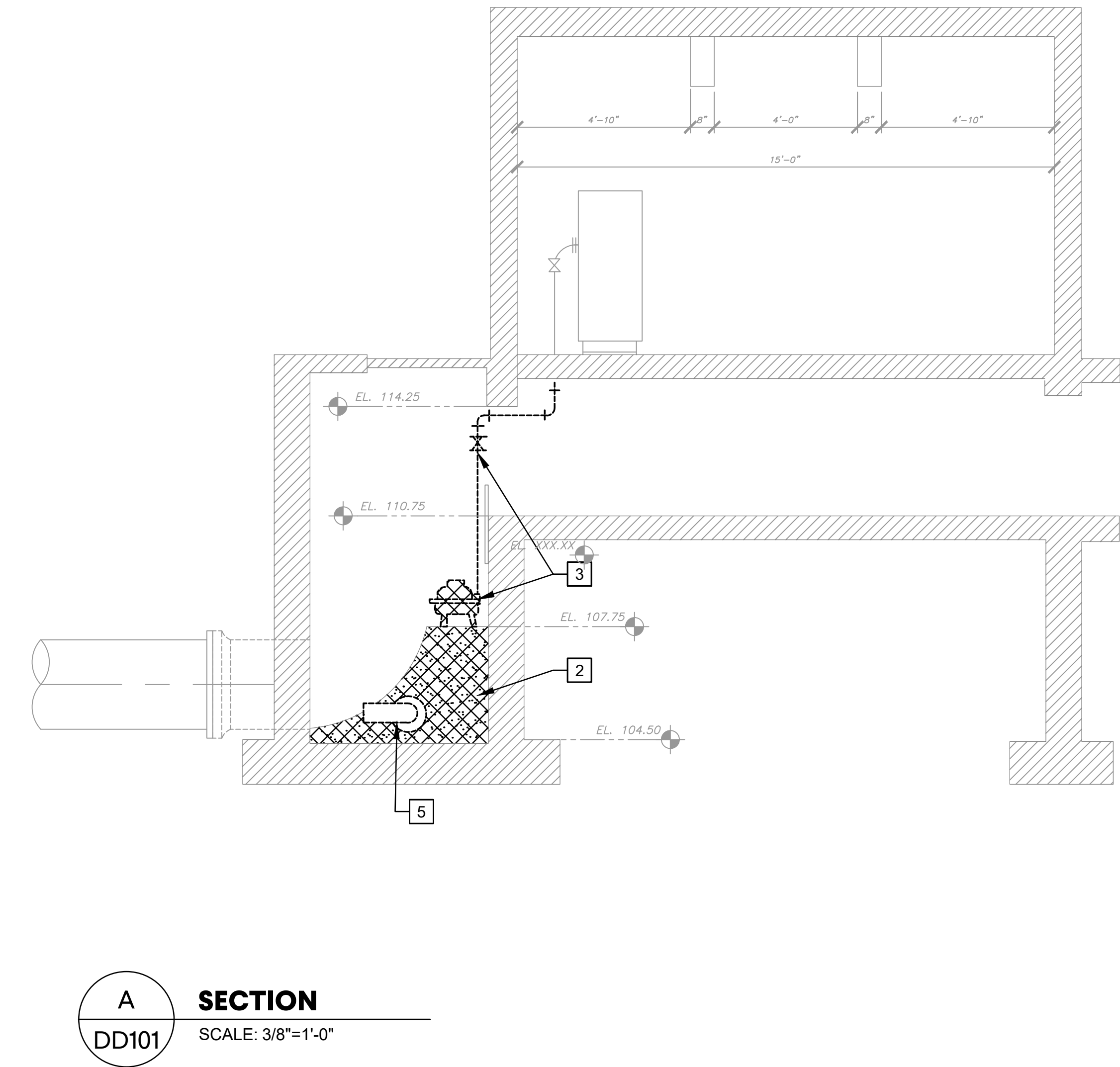
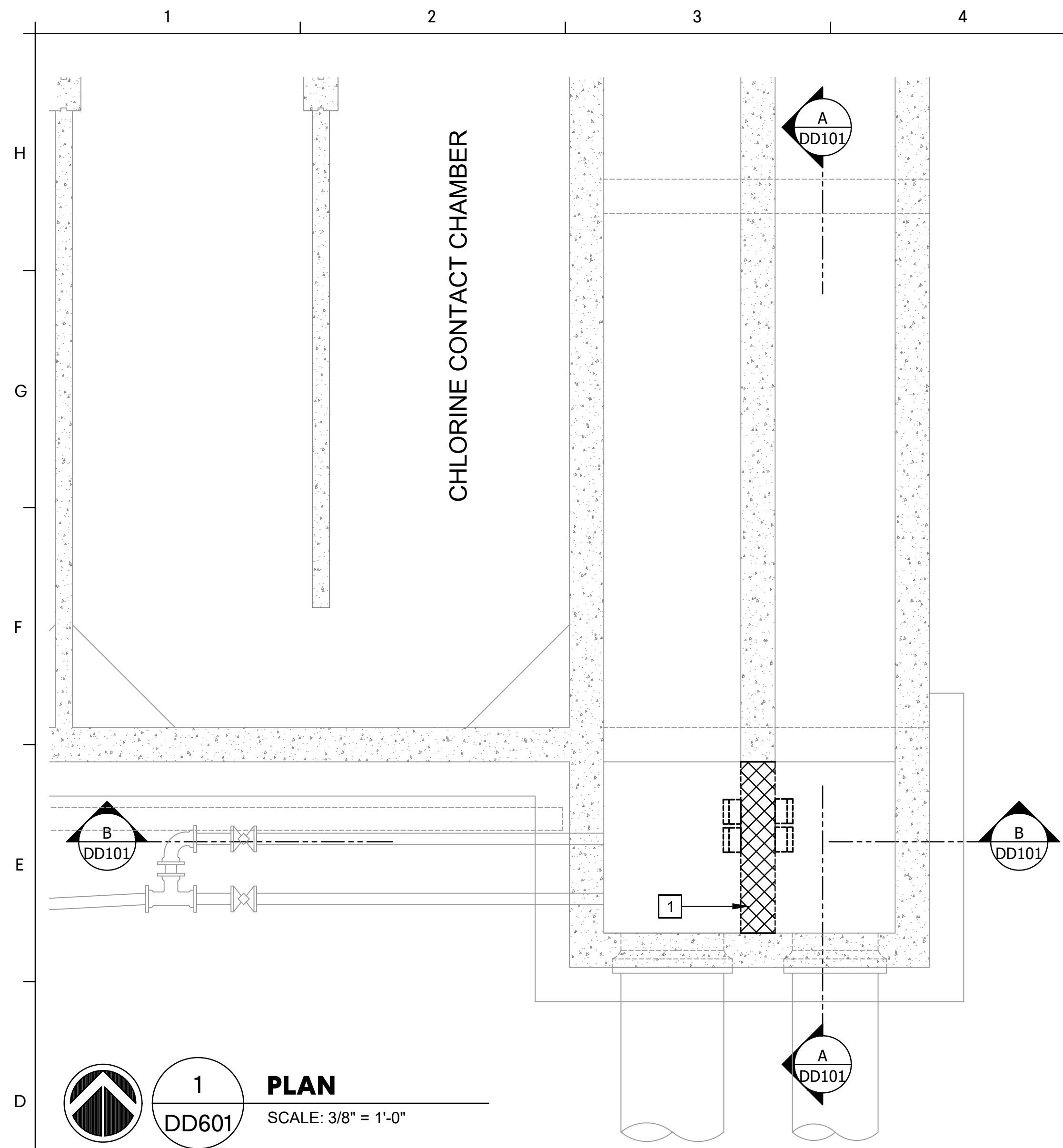
BGJWSC Project No. 906
GMC Project #CSAV190007



ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

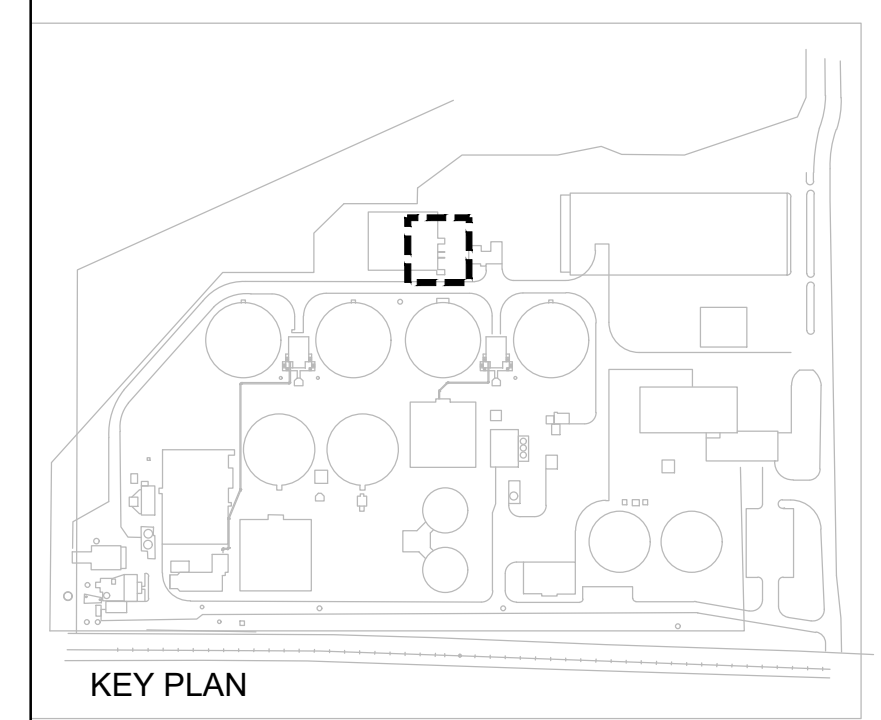


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PLOTTED: Jun 05, 2021 - 11:05am



- KEY NOTES: #**
1. SAW CUT AND REMOVE CONCRETE WALL
 2. REMOVE GROUT FILL AREA
 3. DISCONNECT AND REMOVE SAMPLE PUMP AND PIPING AS SHOWN
 4. CORE DRILL EXISTING WALL FOR INSTALLATION OF 48" PIPE
 5. REMOVE DRAIN PIPING

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



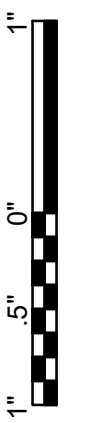
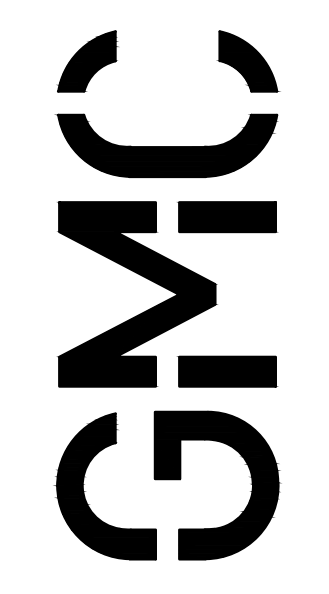
2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

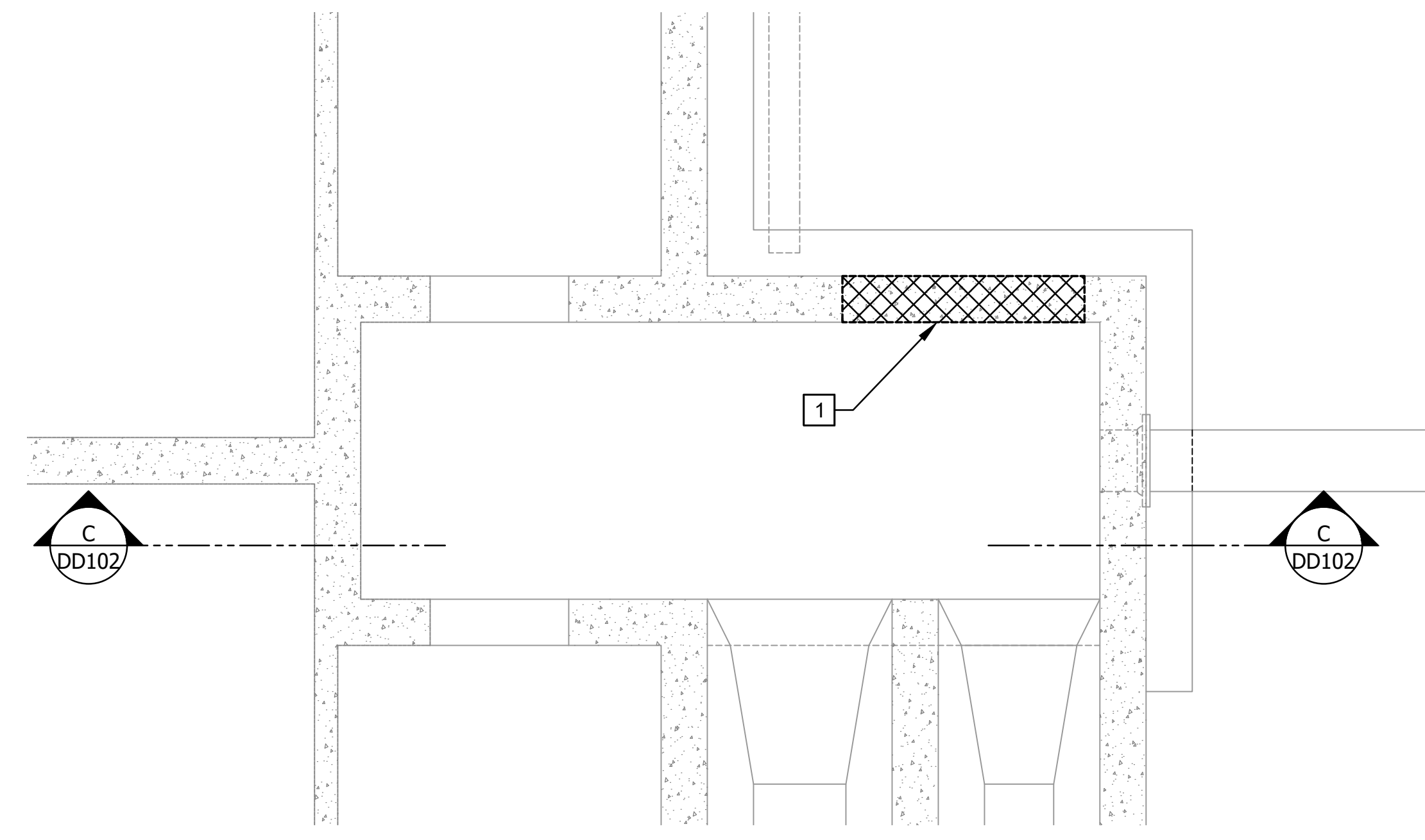


CHLORINE CONTACT CHAMBER DEMO PLAN & SECTIONS

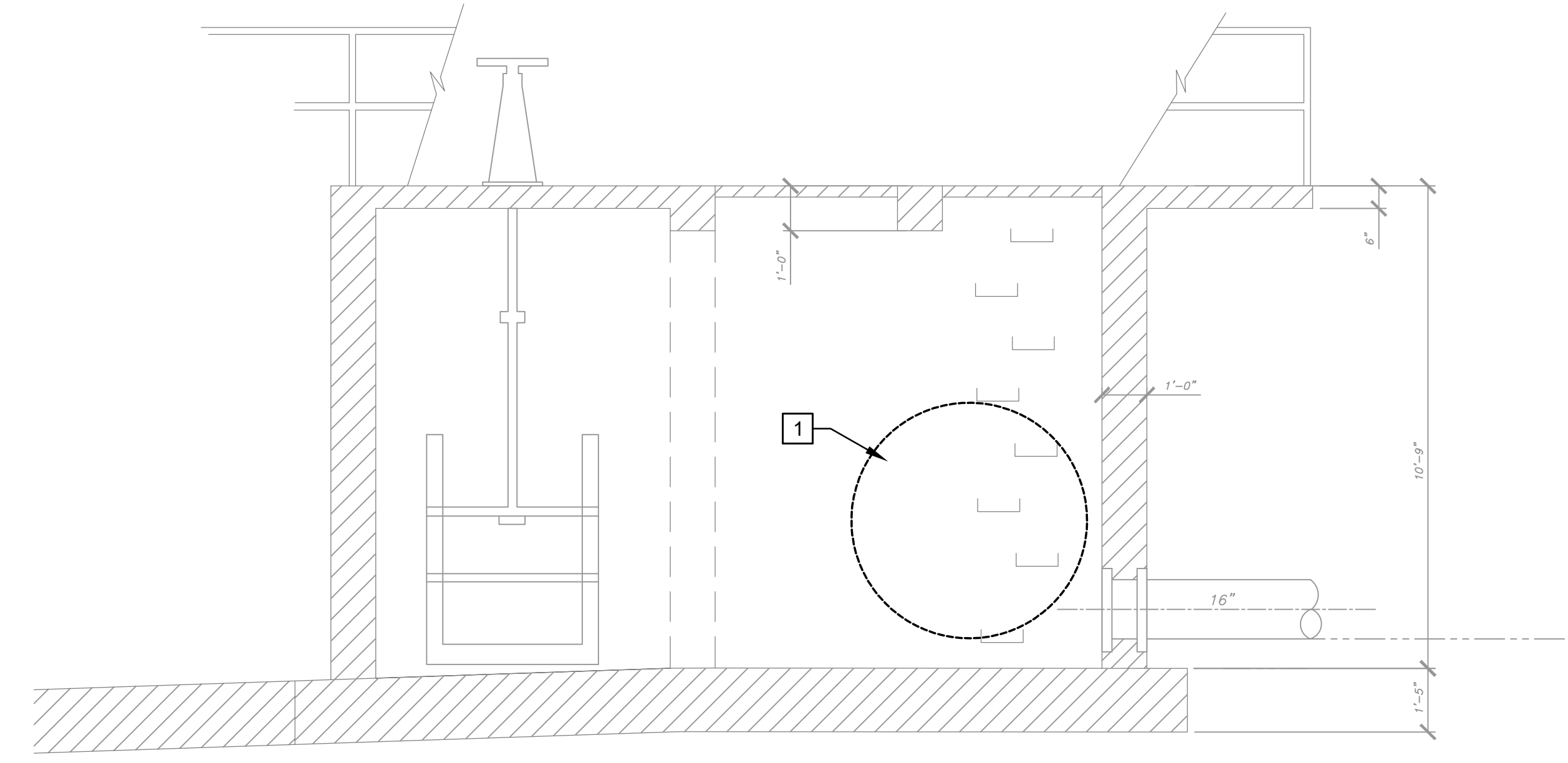
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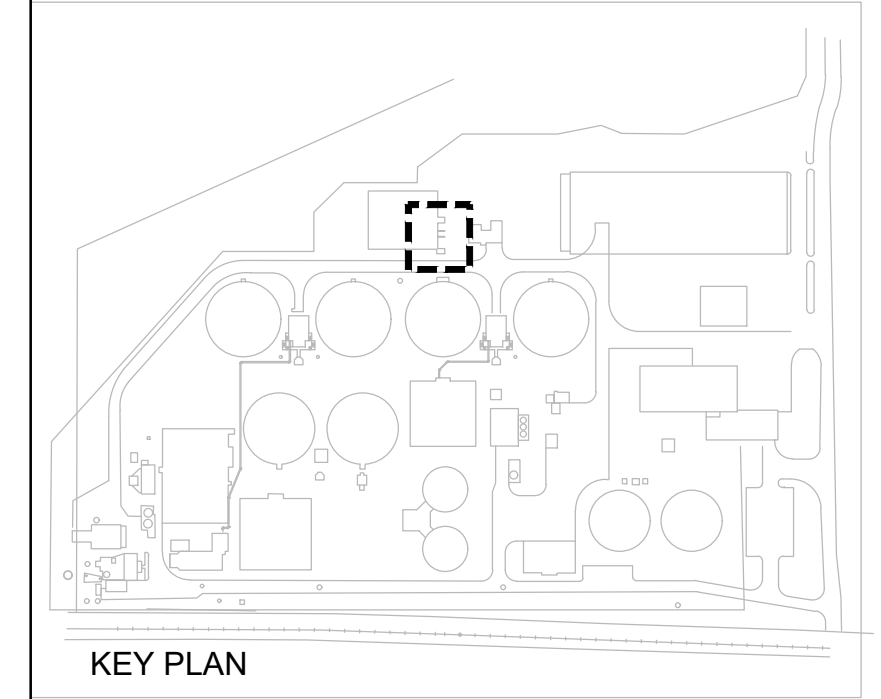


2 PLAN
DD601 SCALE: 3/8" = 1'-0"



C SECTION
DD102 SCALE: 3/8" = 1'-0"

KEY NOTES: #
1. CORE DRILL EXISTING WALL FOR
INSTALLATION OF 48" PIPE



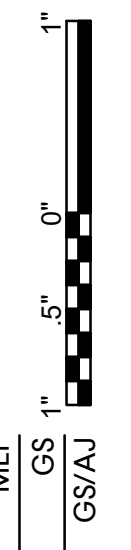
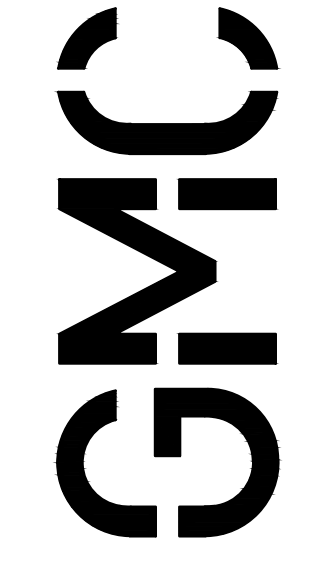
KEY PLAN

2019 WPCF REHABILITATION
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BGJWSC Project No. 906
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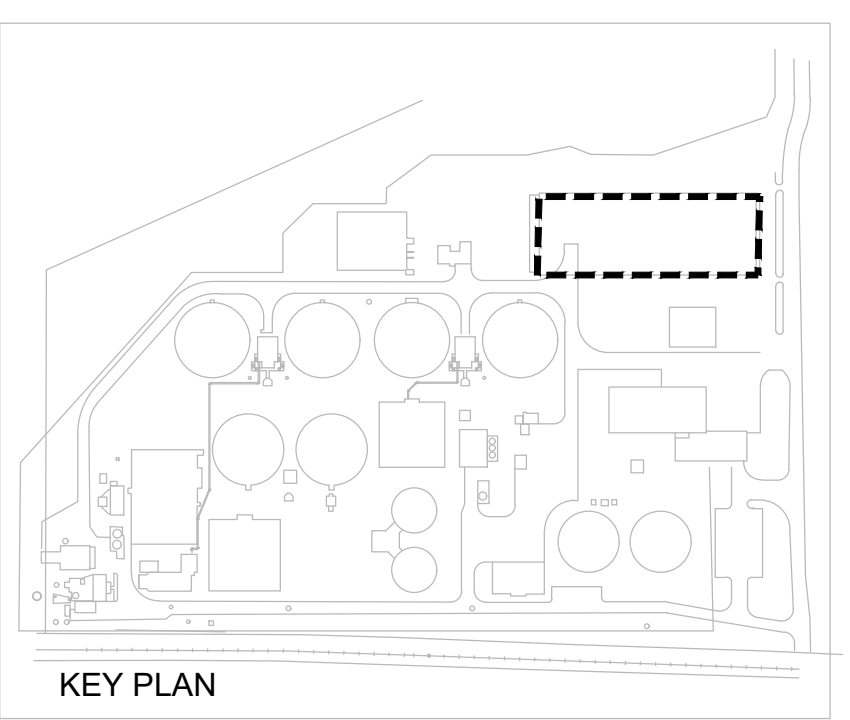
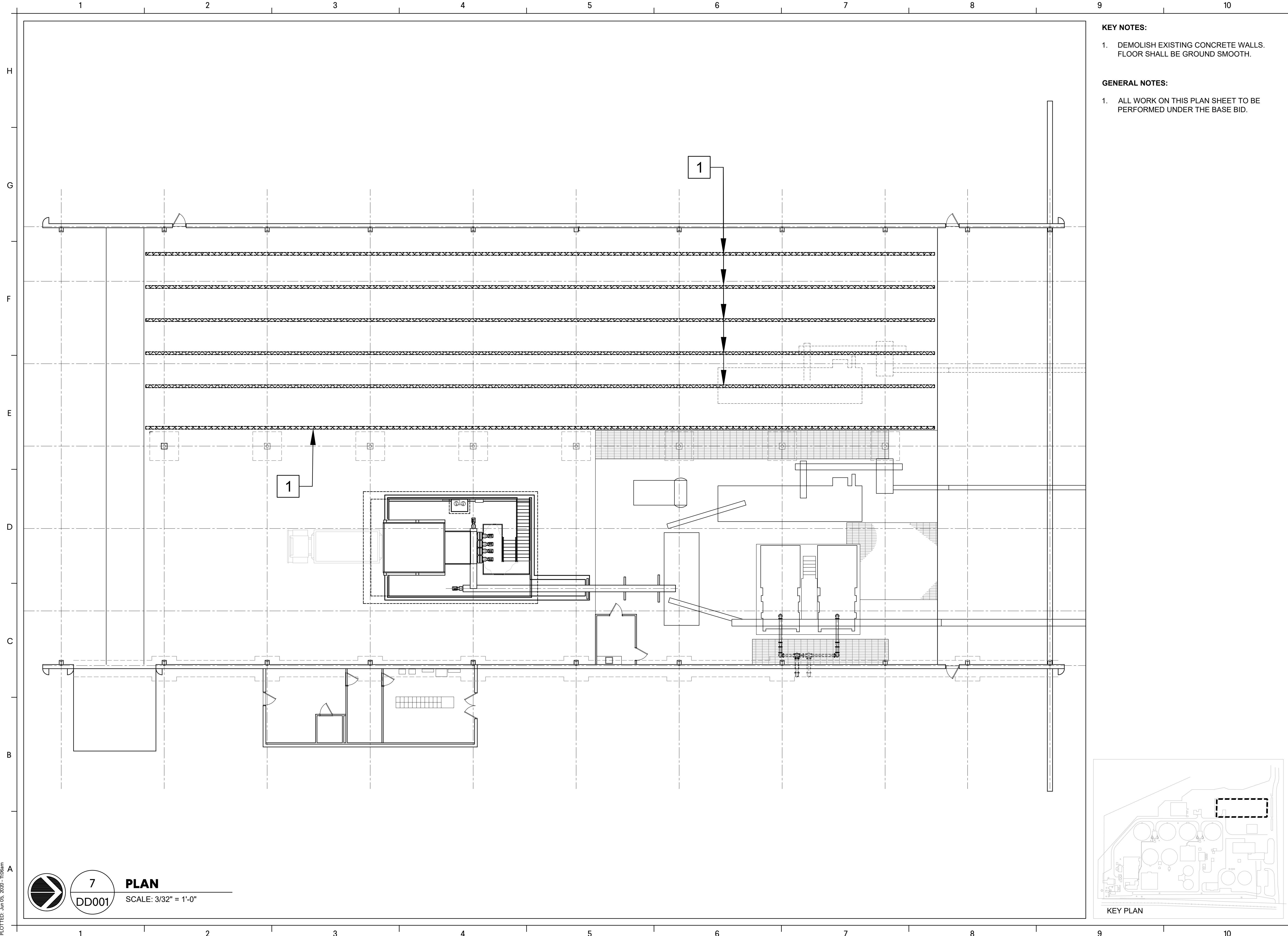
CHLORINE CONTACT
CHAMBER DEMO
PLAN & SECTION

DD612

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



DRAWING FILE: W:\CIVIL\CSAV190007\BG\JWSC\WPC\Rehab\DD701\DEMOLITION\DD701 DEWATERING AREA DEMOLITION.dwg
PLOTTED: Jun 05, 2024 - 11:08am



- KEY NOTES:**
1. DEMOLISH EXISTING CONCRETE WALLS. FLOOR SHALL BE GROUND SMOOTH.
- GENERAL NOTES:**
1. ALL WORK ON THIS PLAN SHEET TO BE PERFORMED UNDER THE BASE BID.

7 PLAN
DD001 SCALE: 3/32" = 1'-0"

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

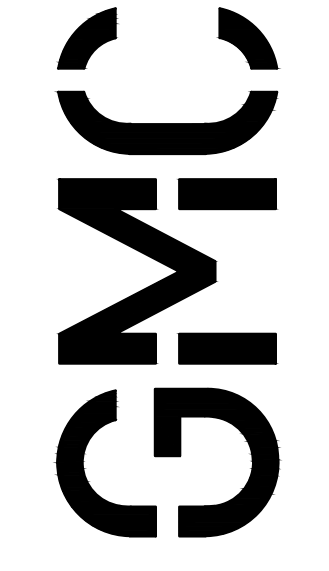
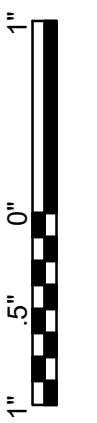
BGJWSC Project No. 906
GMC Project #CSAV190007

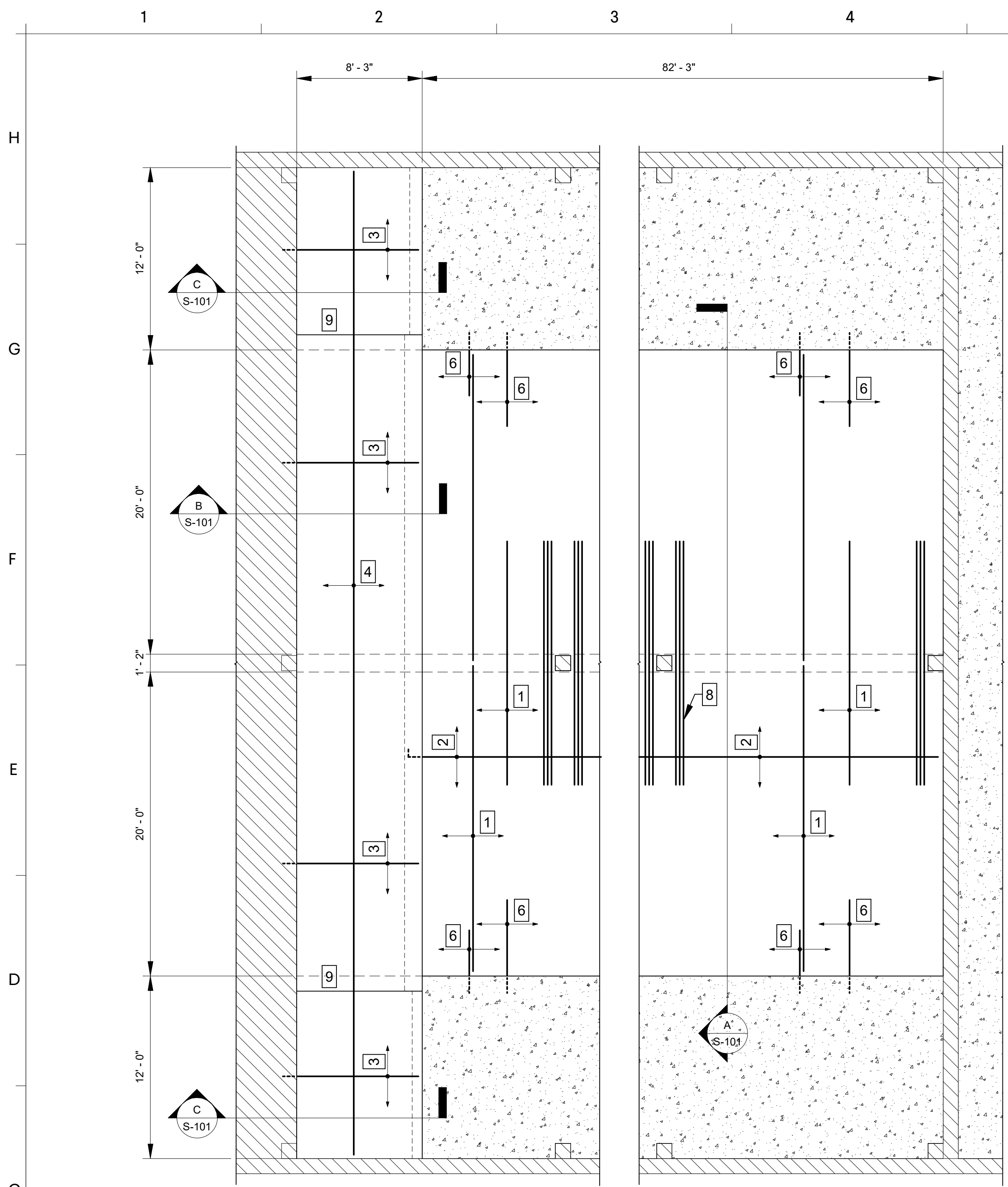


SLUDGE DEWATERING AREA DEMOLITION PLAN

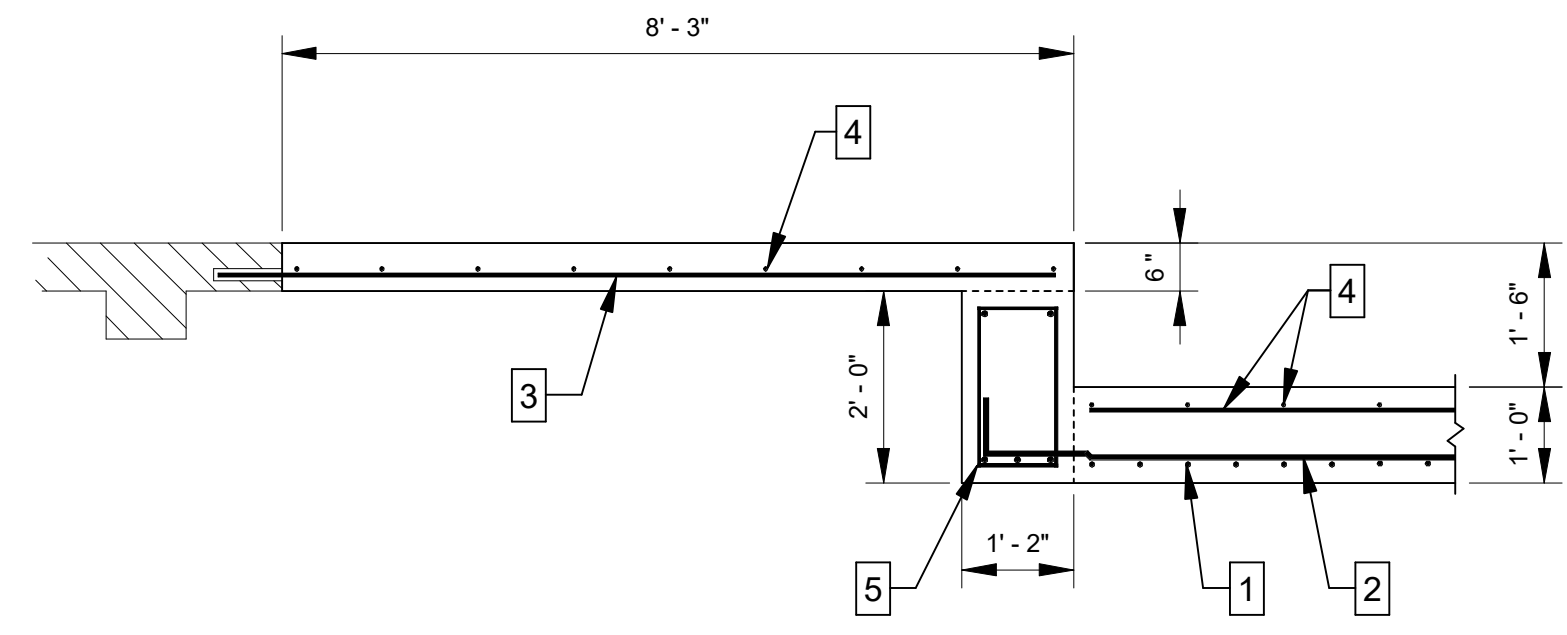
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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

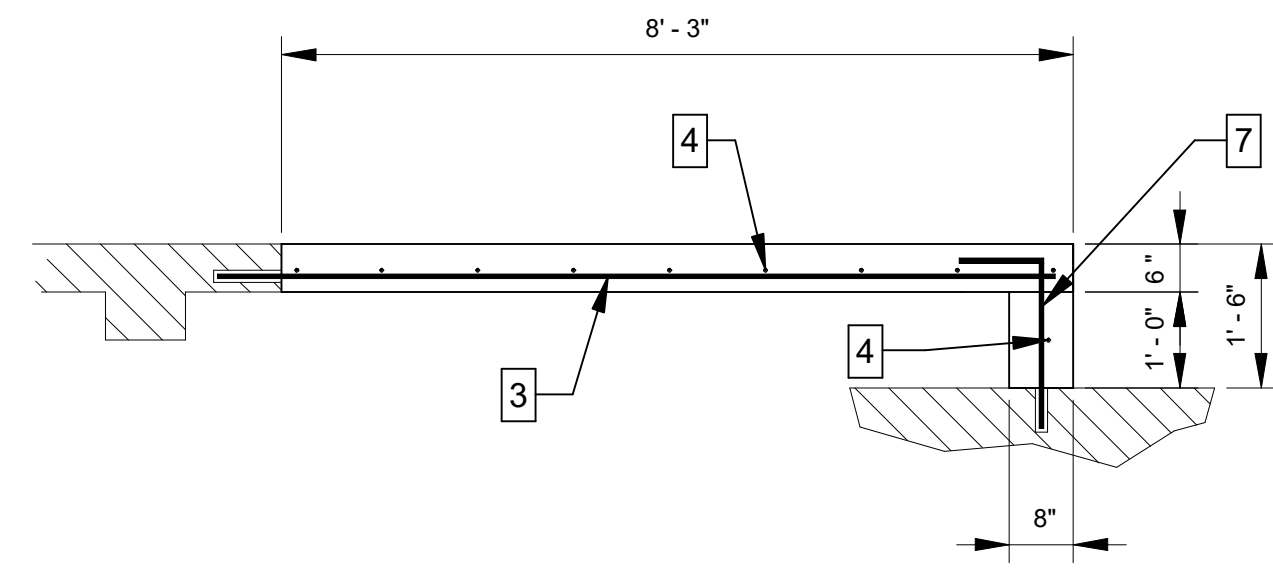




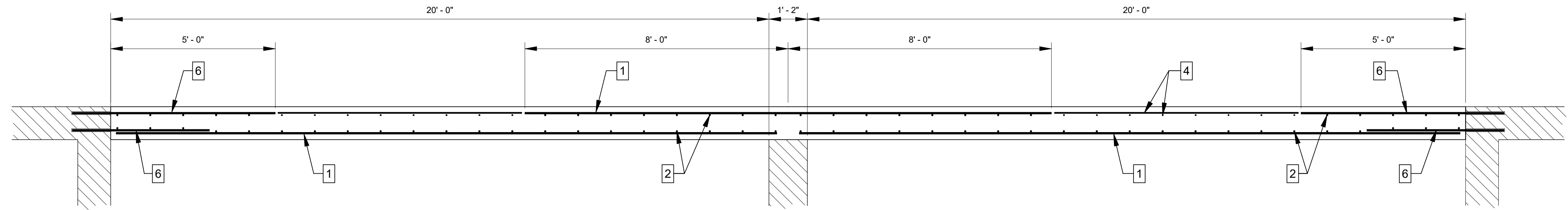
1 PARTIAL PLAN
S-101
8' 4' 0' 8' 16'
SCALE: 3/16" = 1'-0"



B SECTION
S-101
2' 1' 0' 2' 4'
SCALE: 1/2" = 1'-0"

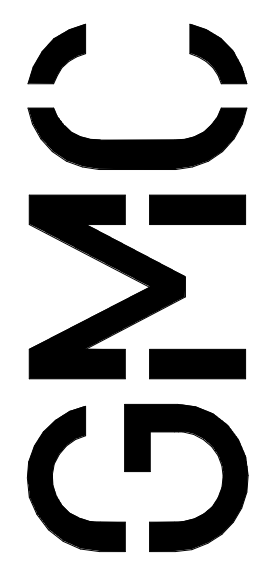



C SECTION
S-101
2' 1' 0' 2' 4'
SCALE: 1/2" = 1'-0"



A SECTION
S-101
1'-4" 8" 0' 1'-4" 2'-8"
SCALE: 1/2" = 1'-0"

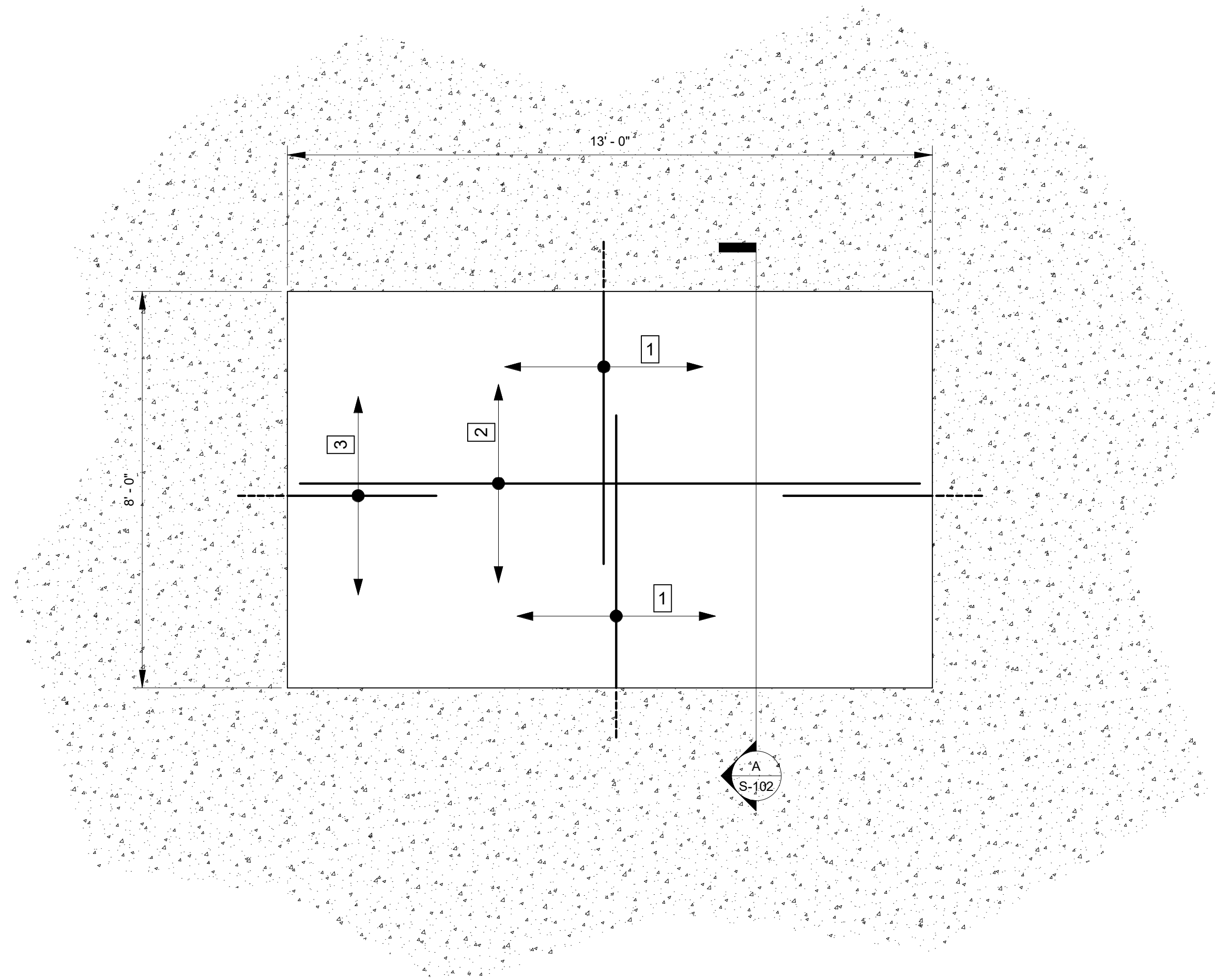
- REQUIRED NOTES: #**
- #5 @ 6" O.C. W/ 2" CL. BOTTOM
 - #5 @ 12" O.C. W/ 2" CL. BOTTOM
 - #4 @ 10" O.C. W/ 2" CL. BOTTOM (DRILL AND EPOXY INTO EXISTING CONCRETE MIN. 5")
 - #4 @ 12" O.C. W/ 2" CL. BOTTOM
 - (2) #6 TOP, (3) #6 BOTTOM, #3 TIES @ 8" O.C.
 - #5 DOWEL @ 6" O.C. (DRILL AND EPOXY INTO EXISTING CONCRETE MIN. 1'-2")
 - #5 VERTICAL DOWELS W/ STD. HOOK @ 12" O.C. (DRILL & EPOXY INTO EXISTING CONCRETE MIN. 5")
 - (3) @ 5 @ 3" O.C. (TYPICAL EACH SIDE OF EACH COLUMN)
 - CONTROL JOINT
- NOTE: ALL PLAN DIMENSIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION



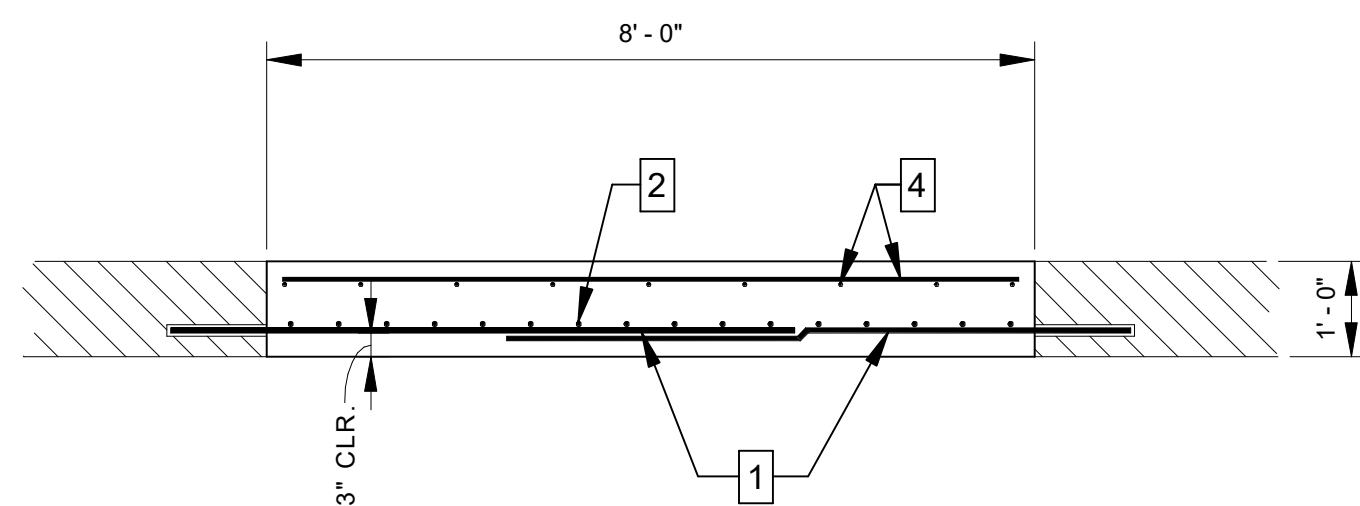
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2019 WPCF REHABILITATION ACADEMY CREEK BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION	BGWSC Project No. 906 GMC Project # CSAV190007	
DAF BUILDING - NEW STRUCTURAL SLAB	S-101	

ISSUE	DATE	DRAWN BY:
30% SUBMITTAL	10.01.2019	JDD
60% SUBMITTAL	12.16.2019	JDD
100% SUBMITTAL	03.12.2020	JDD
FINAL	06.15.2020	JDD
PROJECT MANAGER:		JDD
ENGINEER:		JDD
DESIGNER:		JDD
DRAWN BY:		JDD

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1
S-102
PARTIAL PLAN
2' 1' 0' 2' 4'
SCALE: 1/2" = 1'-0"



A
S-102
SECTION
2' 1' 0' 2' 4'
SCALE: 1/2" = 1'-0"

REQUIRED NOTES: #

1. #5 x 6'-6" LONG @ 6" O.C. (DRILL AND EPOXY INTO EXISTING SLAB MIN. 1'-0")
2. #5 @ 6" O.C. (BOTTOM)
3. #5 x 4'-0" LONG @ 6" O.C. (DRILL AND EPOXY INTO EXISTING SLAB MIN. 1'-0")
4. #4 @ 12" O.C. EACH WAY W/ 2" CL. TOP

NOTE: ALL PLAN DIMENSIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

CONTRACTOR SHALL VERIFY THAT EXISTING SLAB THICKNESS IS 12" MIN.

SLAB PATCH DETAILS

S-102

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION

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GMC Project # CSAV190007

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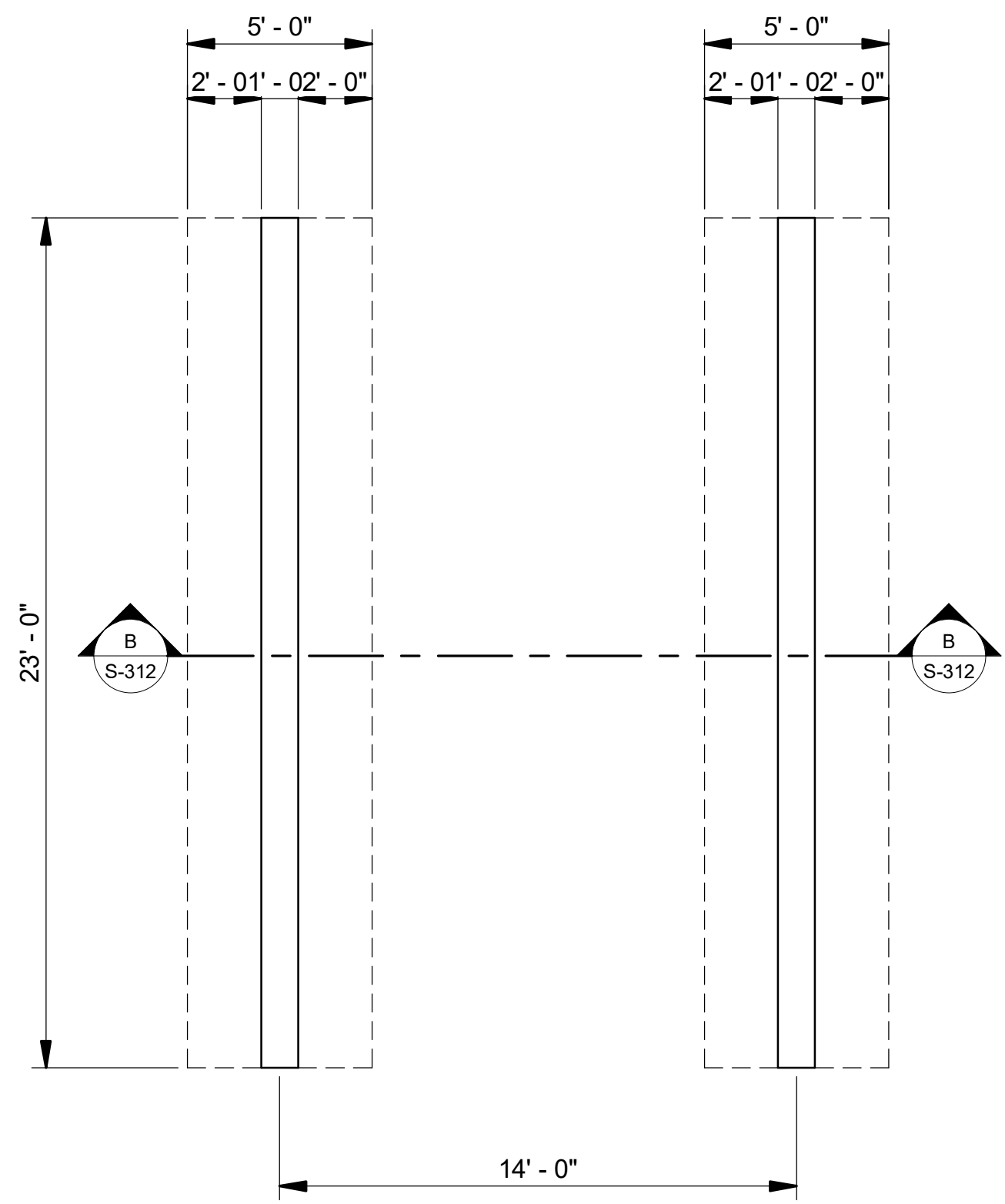
PROJECT MANAGER: JDD
ENGINEER: DPR
DESIGNER: JDD
DRAWN BY: JDD

REGISTERED PROFESSIONAL ENGINEER
No. 13338
6.15.2020
JOSEPH W. WEATHERS

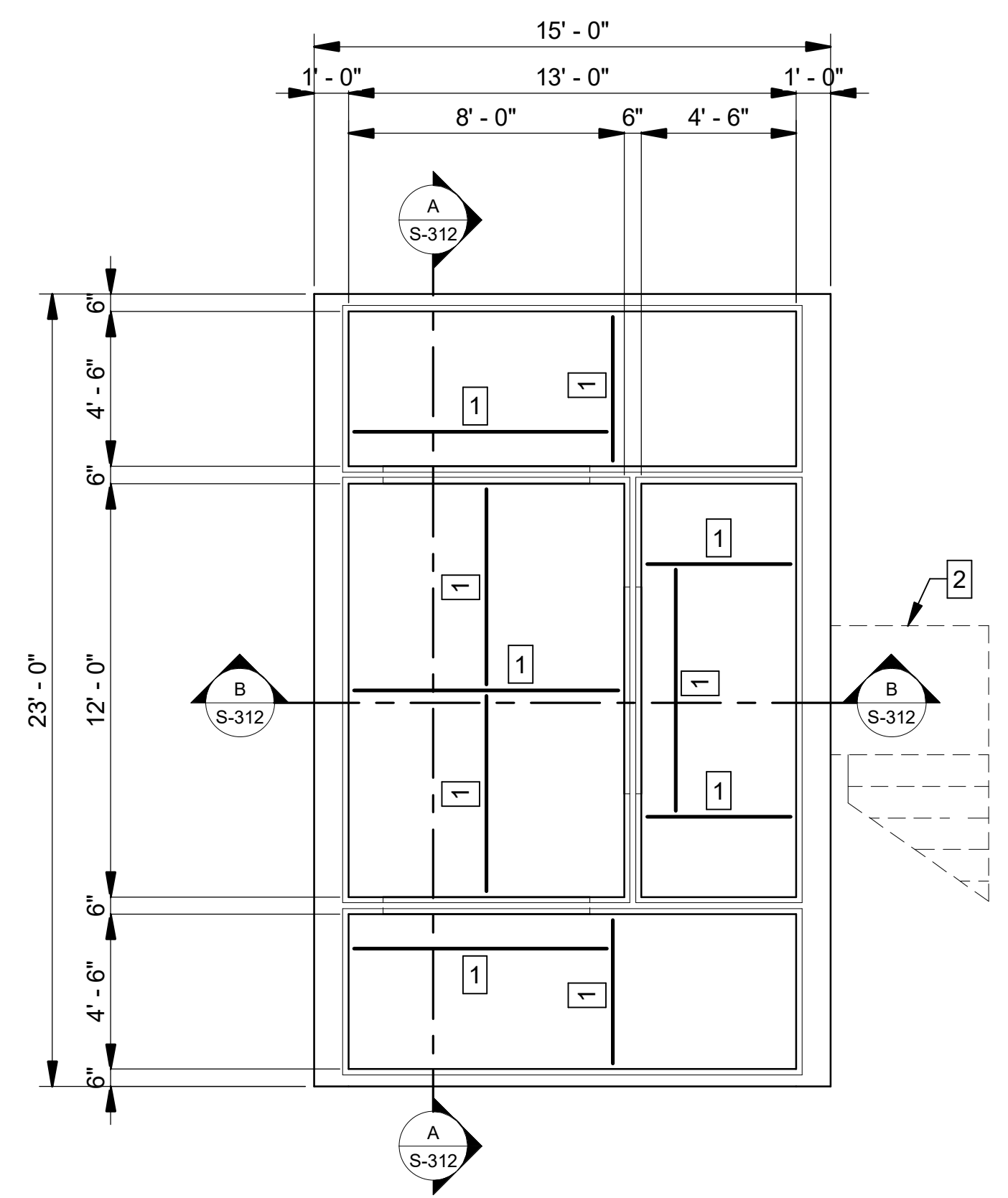
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1 2 3 4 5 6 7 8 9 10

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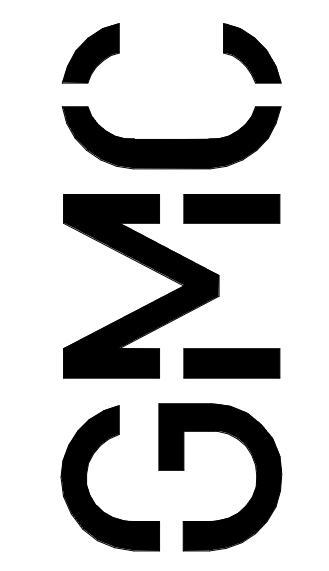


1 LOWER PLAN
S-311 SCALE: 1/4" = 1'-0"



2 UPPER PLAN
S-311 SCALE: 1/4" = 1'-0"

KEYED NOTES: #
 1. W8x10 GALVANIZED GRATING SUPPORT BEAMS
 2. PREFABRICATED STAIR BY OTHERS



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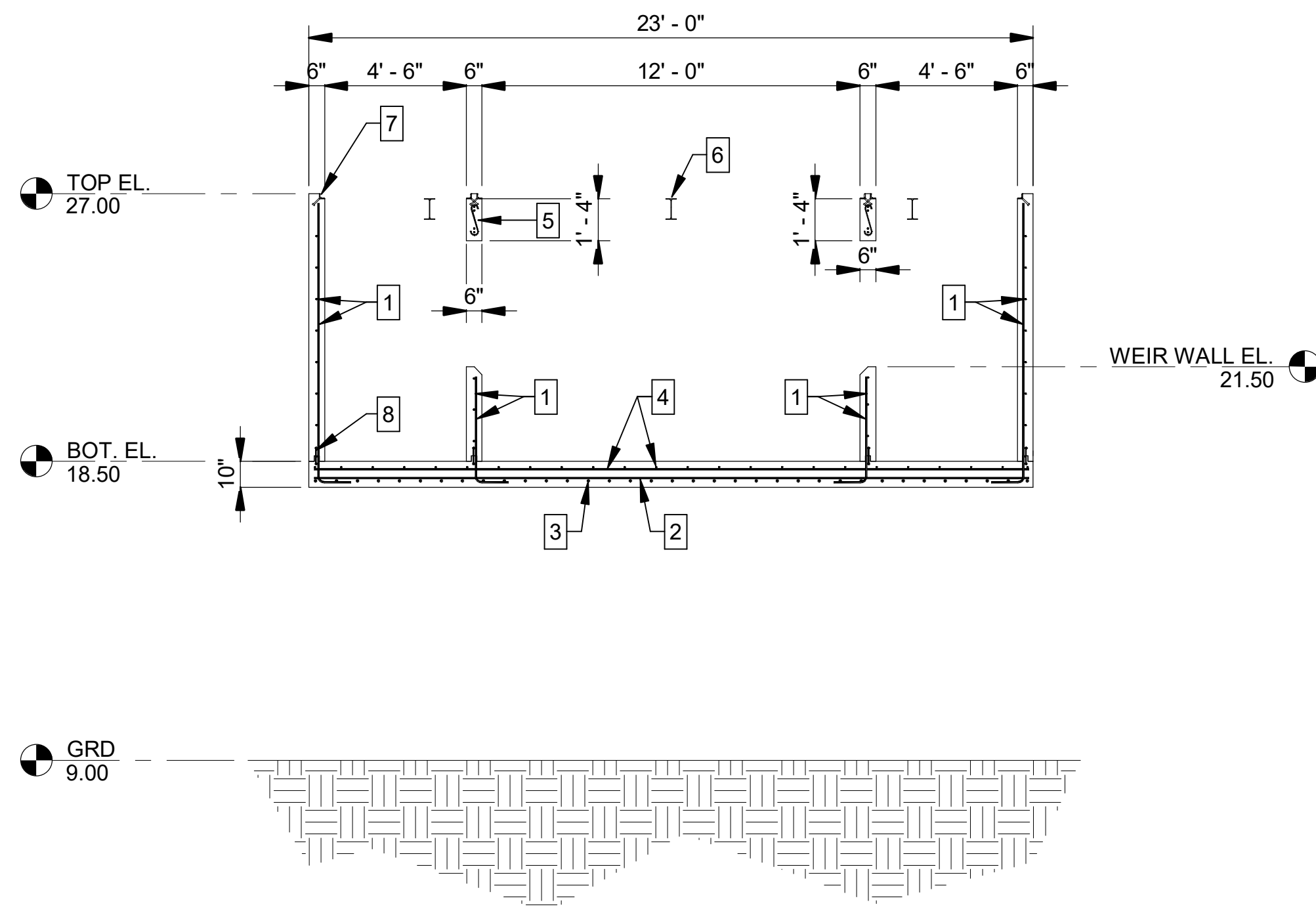


PRIMARY SPLITTER BOX -
 PLAN VIEWS

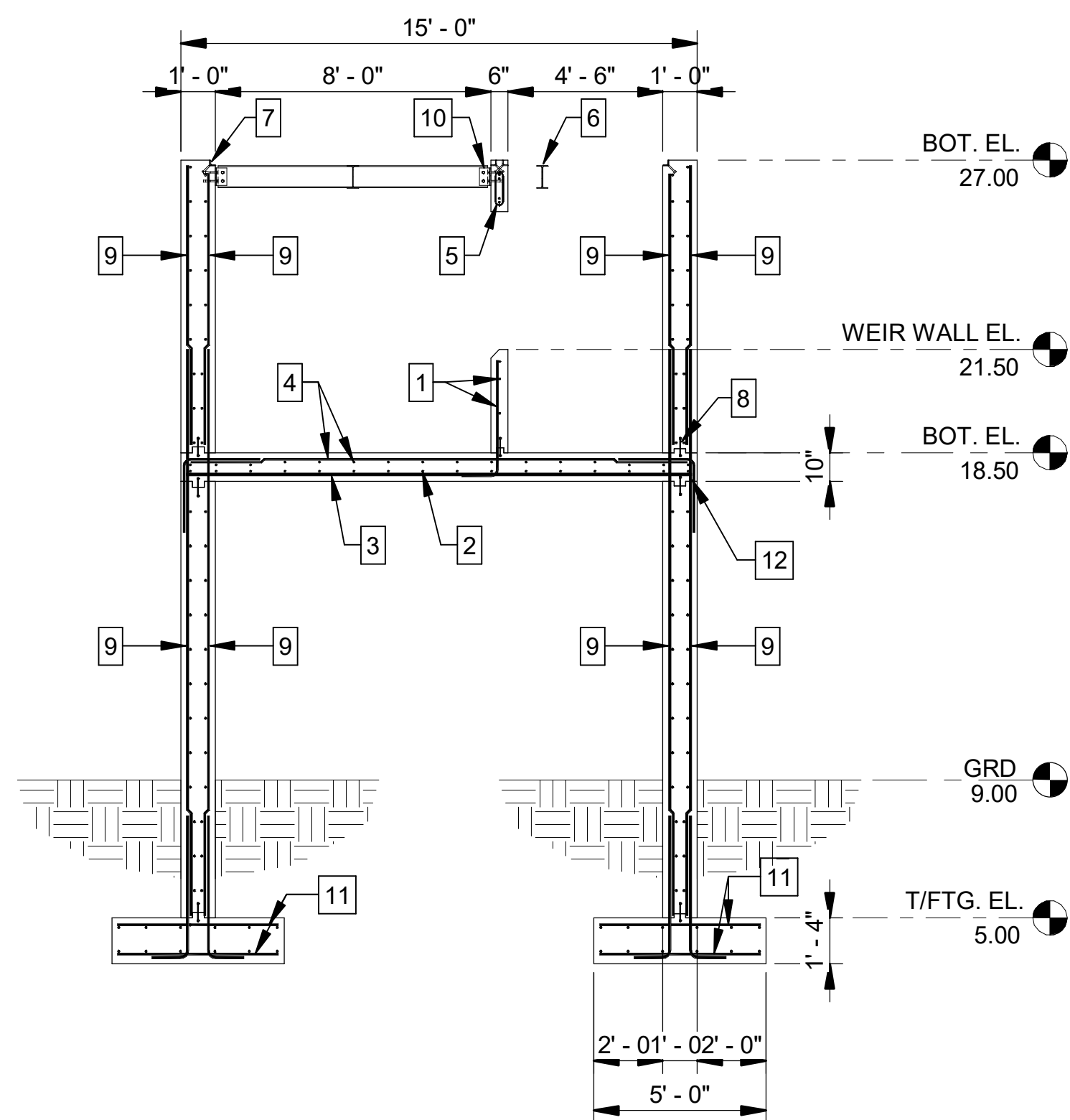
S-311

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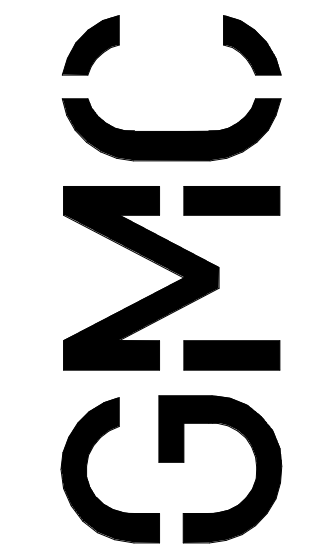
A SECTION
S-312 SCALE: 1/4" = 1'-0"



B SECTION
S-312 SCALE: 1/4" = 1'-0"

KEYED NOTES: #

1. #5 @ 12" O.C. EACH WAY (VERT. CENTERED IN WALL)
2. #5 @ 12" O.C. LONGITUDINAL
3. #8 @ 8" O.C. TRANSVERSE W/ 2" CL. BOTT. & SIDES
4. #5 @ 12" O.C. EACH WAY W/ 2" CL. TOP
5. (2) # 5 T&B w/ #3 "S" STIRRUPS @ 8" O.C.
6. W8x10 GRATING SUPPORT BEAM (TYP.)
7. PREFABRICATED GRATING SEAT EMBED (TYP.)
8. 6" PVC WATERSTOP (TYP.)
9. #6 @ 12" O.C. EACH WAY W/ VERT. 2" CL.
10. L4x4x3/8 w/ (2) 1/2" DIA. THRU-BOLTS & (2) 1/2" DIA. EXPANSION BOLTS (4" MIN. EMBEDMENT)
11. #6 @ 12" O.C. EA. WAY TOP & BOTT. W/ 2" CL. TOP & 3" CL. BOTT. & SIDES (TYP.)
12. #5 x 2'-0" x 2'-0" HOOK BARS @ 12" O.C.



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100% SUBMITTAL	03.12.2020	T 912.655.6790
FINAL	06.15.2020	GMCNETWORK.COM
PROJECT MANAGER:	JDD	
ENGINEER:	JDD	
DESIGNER:	JDD	
DRAWN BY:	JDD	

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION
BGJWSC Project No. 906
GMC Project # CSAV190007



PRIMARY SPLITTER BOX -
SECTIONS

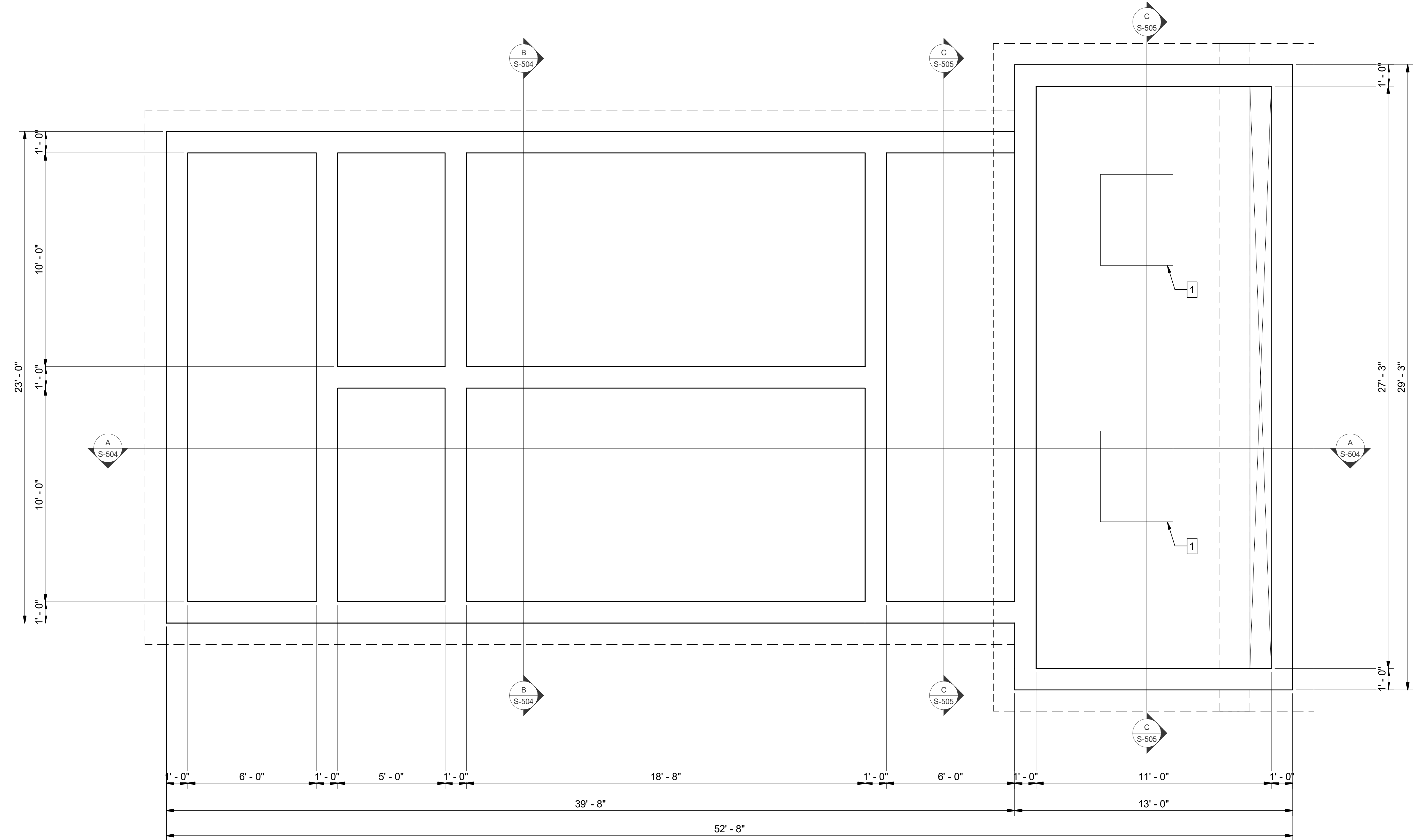
S-312

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1 2 3 4 5 6 7 8 9 10

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A



KEYED NOTES: #
 1. 6" EQUIPMENT PAD (SEE S-911)

1
S-501
BOT LEVEL
 SCALE: 3/8" = 1'-0"

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

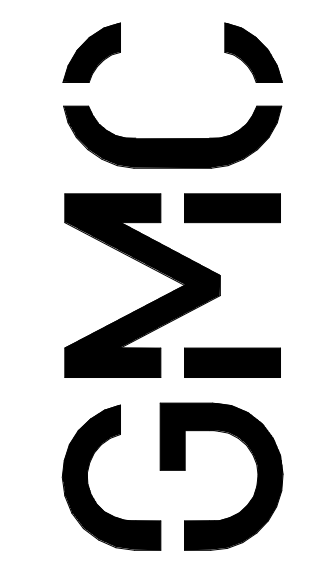
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60% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
FINAL	06.15.2020
PROJECT MANAGER:	JDD
ENGINEER:	JDD
DESIGNER:	JDD
DRAWN BY:	JDD

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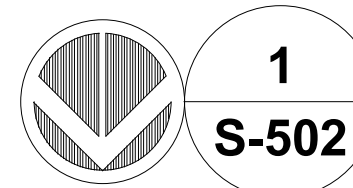


FILTER - LOWER PLAN

S-501

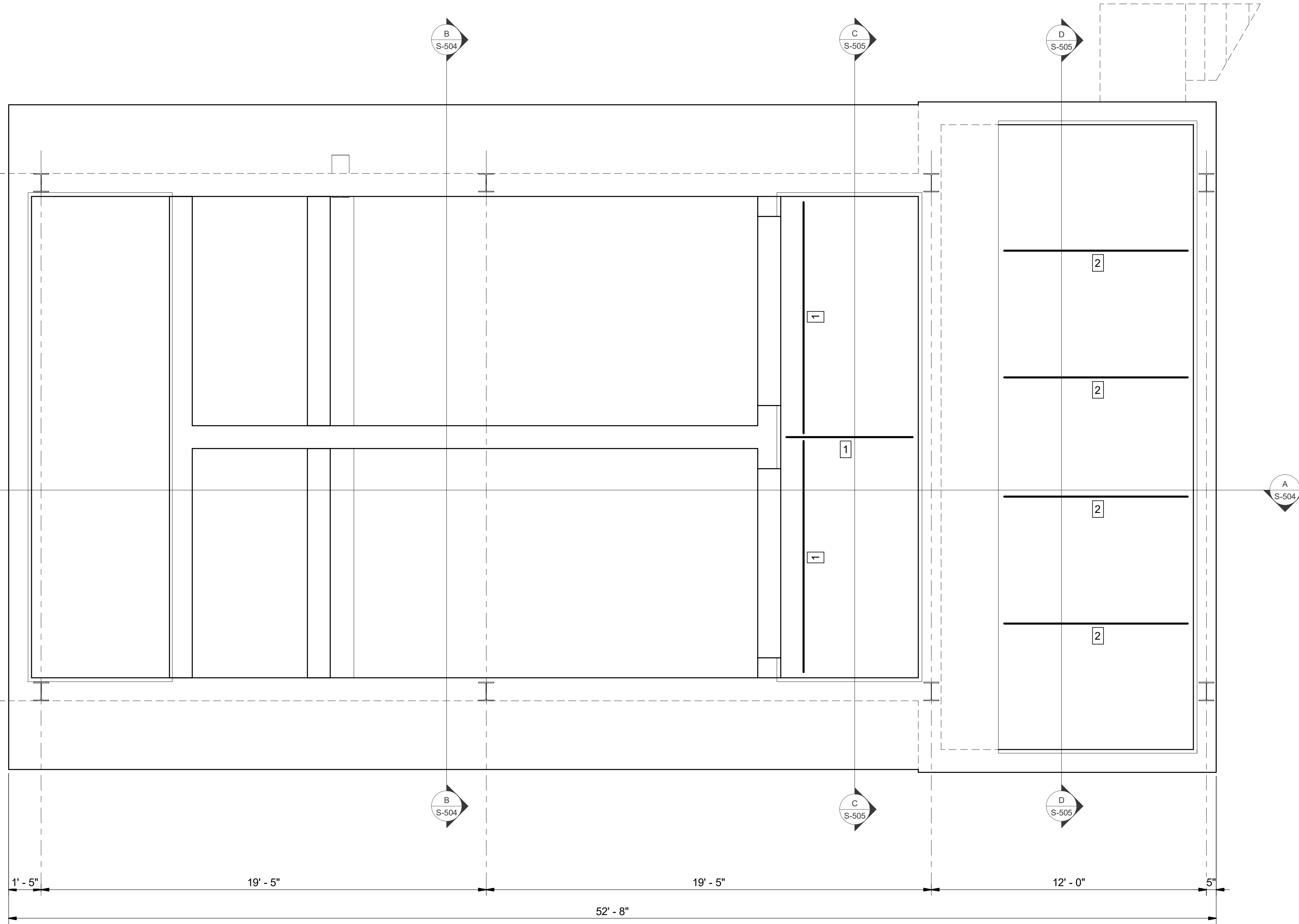


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1
S-502
PLAN VIEW
SCALE: 3/8" = 1'-0"

23'-0"



KEYED NOTES: #
1. W8x15 GALVANIZED GRATING SUPPORT BEAM
2. W10x15 GALVANIZED GRATING SUPPORT BEAM

FILTER - UPPER PLAN

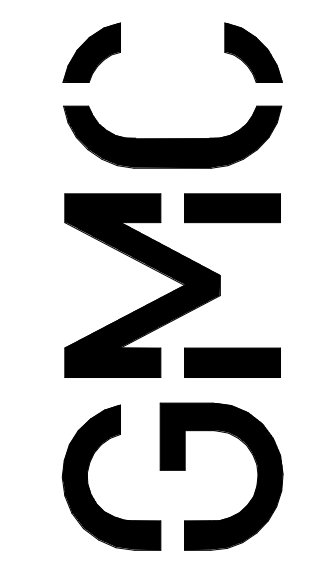
2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY, JOINT WATER
& SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

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60% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
FINAL	06.15.2020

PROJECT MANAGER: JDD
ENGINEER: JDD
DESIGNER: JDD
DRAWN BY: JDD

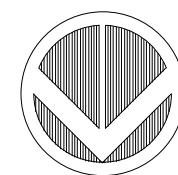


S-502

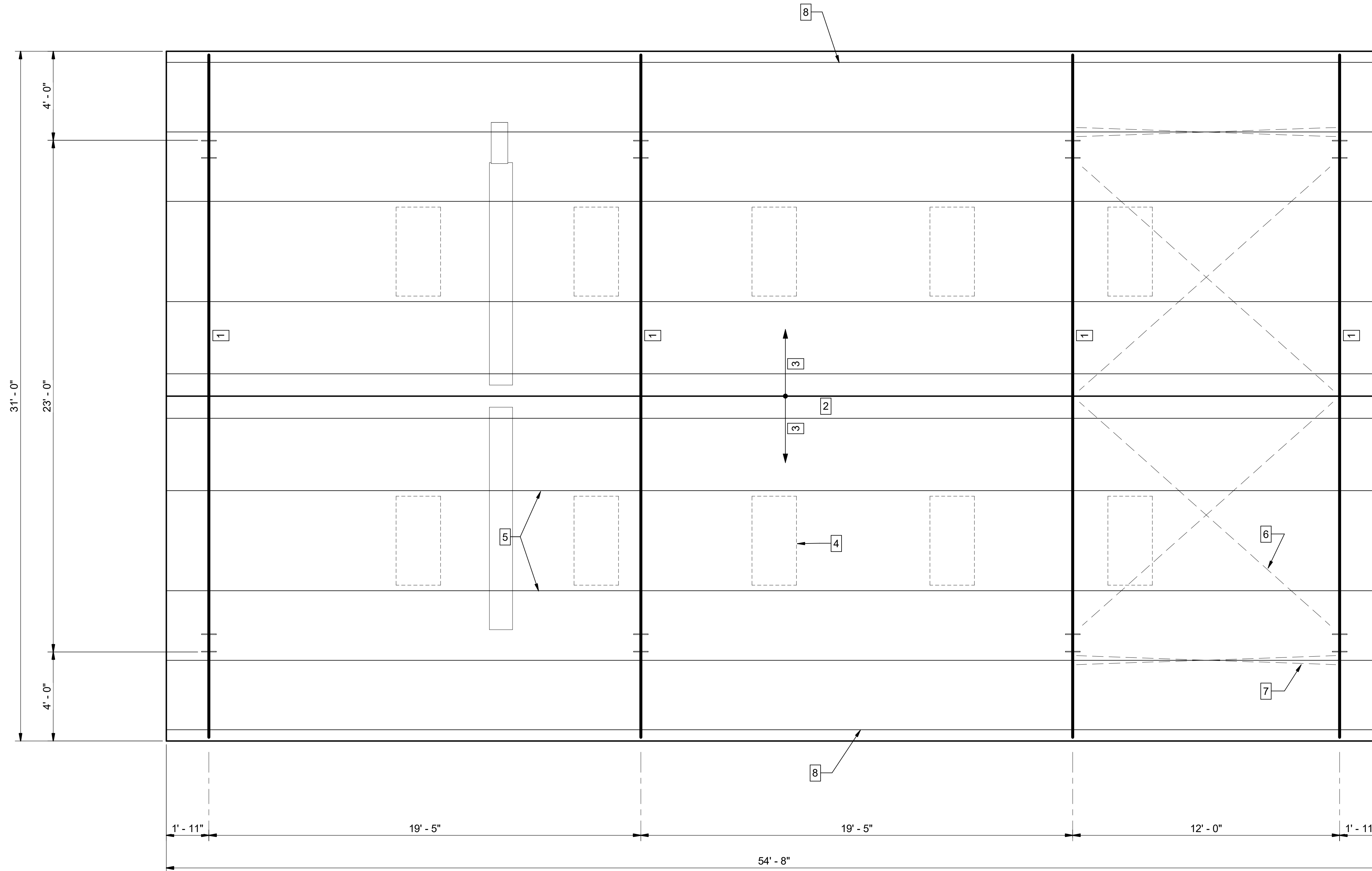


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1
S-503 **PLAN VIEW**
SCALE: 3/8" = 1'-0"



KEYED NOTES: #

1. PEMB RIGID FRAME
2. RIDGE
3. SLOPE = 2:12
4. SKYLIGHTS. PEMB SUPPLIER TO COORDINATE SIZE AND LOCATION w/ ARCH.
5. ROOF PURLINS BY PEMB SUPPLIER @ 5'-0" MAX. O.C.
6. DIAGONAL ROD ROOF DIAPHRAM BRACING AS NEEDED BY PEMB SUPPLIER
7. DIAGONAL ROD LATERAL BRACING AS NEEDED BY PEMB SUPPLIER
8. EAVE GIRT EL. = 29.26

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION

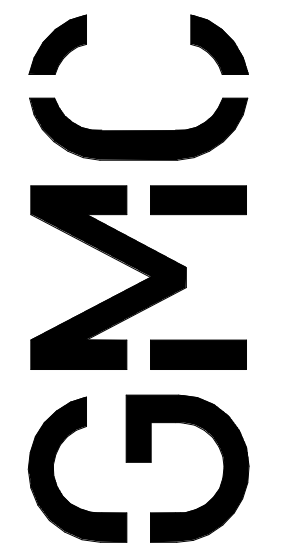
BGWSC Project No. 906
GMC Project # CSAV190007



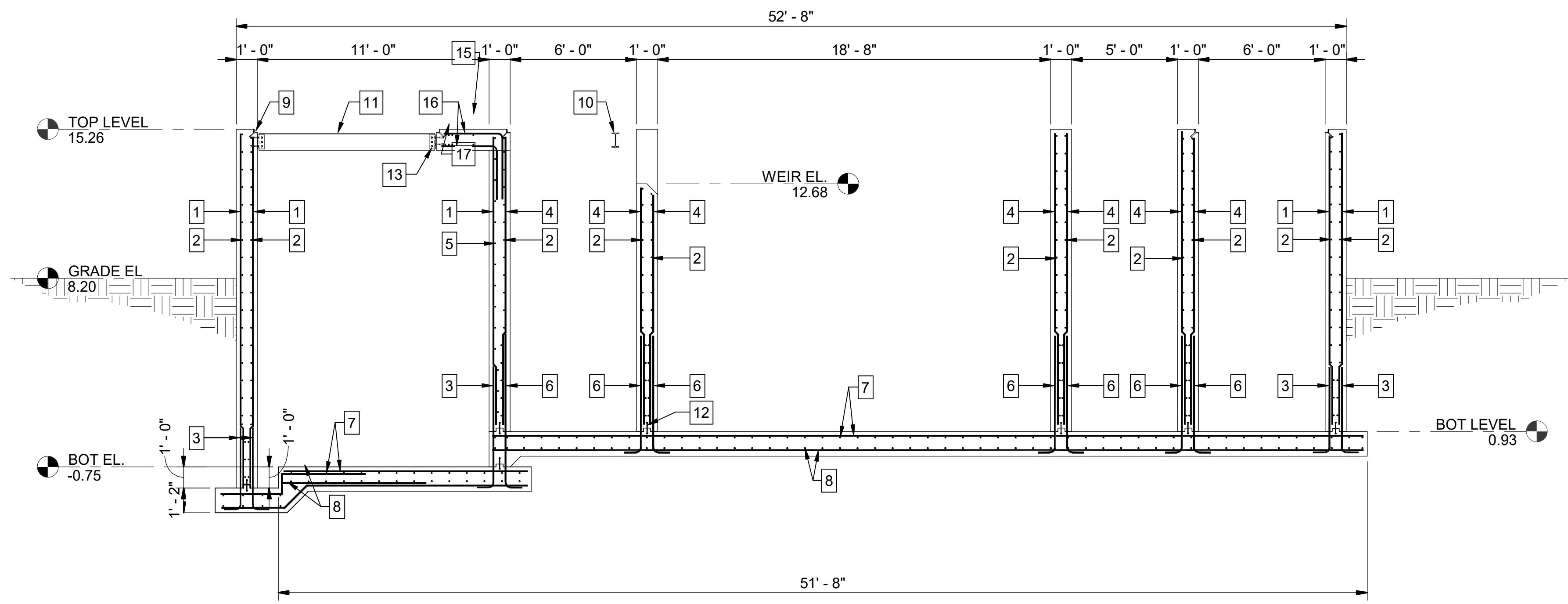
**FILTER CANOPY ROOF
 FRAMING PLAN**

S-503

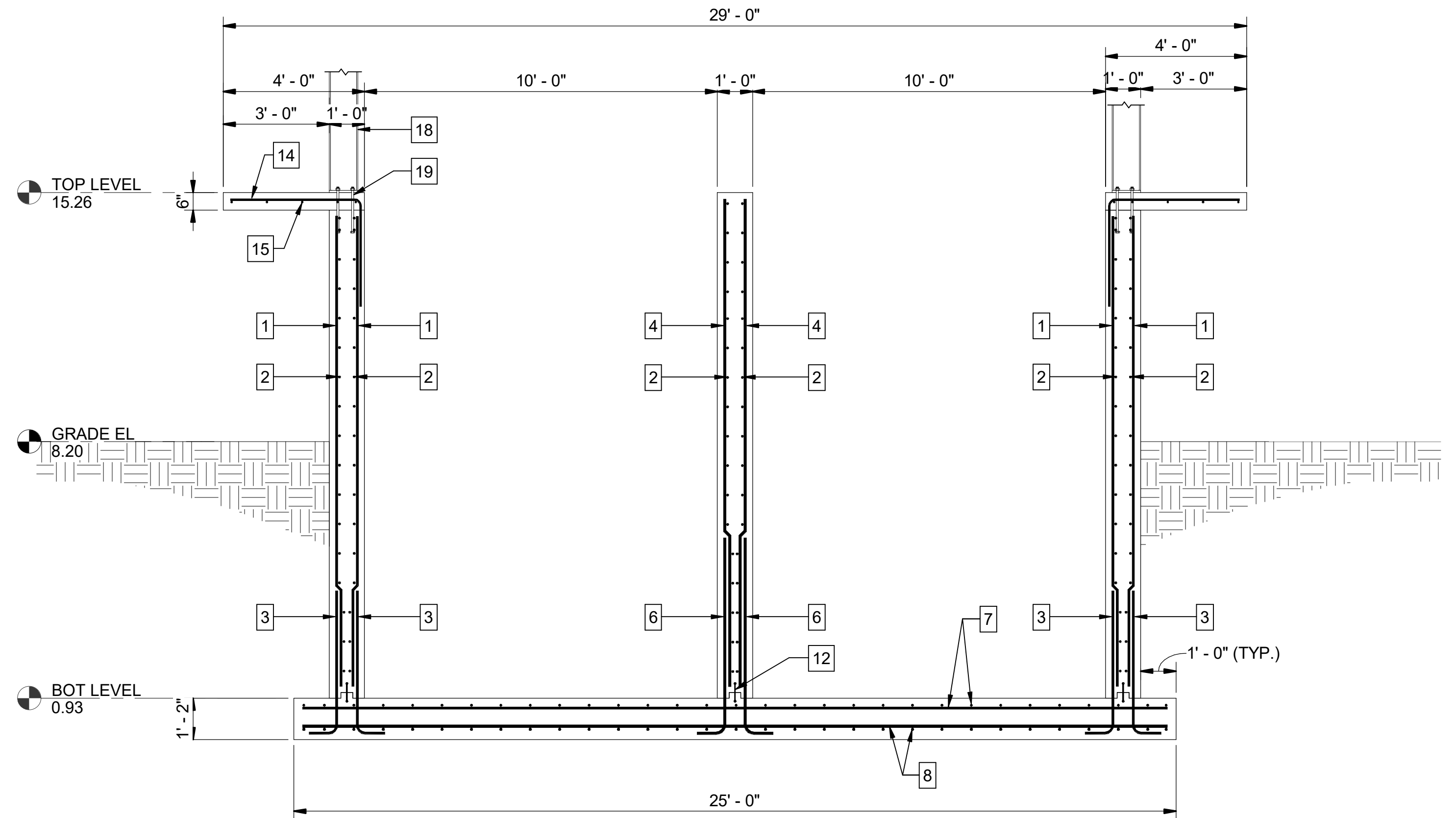
ISSUE	DATE
30% SUBMITTAL	10.01.2019
60% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
FINAL	06.15.2020
PROJECT MANAGER:	JDD
ENGINEER:	JDD
DESIGNER:	JDD
DRAWN BY:	JDD



H
G
F
E
D
C
B
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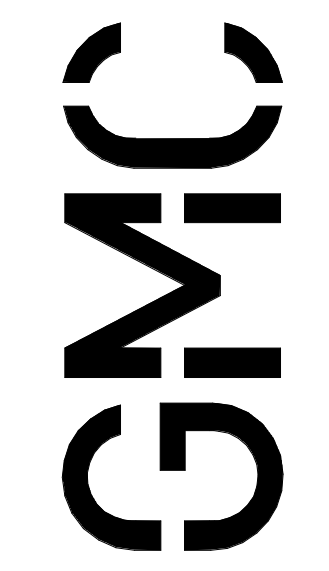


A SECTION
S-501 SCALE: 1/4" = 1'-0"



B SECTION
S-501 SCALE: 3/8" = 1'-0"

- KEYED NOTES: #**
1. #6 VERTICAL @ 10" O.C. W/ 2" CL. (TYP.)
 2. #6 HORIZONTAL @ 10" O.C.
 3. #6 DOWEL @ EACH VERTICAL
 4. #7 VERTICAL @ 10" O.C. W/ 2" CL. (TYP.)
 5. #6 HORIZONTAL @ 12" O.C.
 6. #7 DOWEL @ EACH VERTICAL
 7. #6 @ 10" O.C. EACH WAY W/ 2" CL. (TYP.)
 8. #7 @ 10" O.C. EACH WAY W/ 3" CL. BOTT. & SIDES (TYP.)
 9. PREFABRICATED GRATING SEAT EMBED
 10. W8x15 GALVANIZED GRATING SUPPORT BEAM
 11. W10x15 GALVANIZED GRATING SUPPORT BEAM
 12. 6" PVC WATERSTOP (TYP.)
 13. L4x4X3/8 w/ (3) 1/2" DIA. THRU-BOLTS & (2) 1/2" DIA. EXPANSION BOLTS (4" MIN. EMBEDMENT)
 14. #5 BENT BARS @ 8" O.C. W/ 2" CL. TOP
 15. #5 CONTINUOUS @ 12" O.C.
 16. #6 BENT BARS @ 10" O.C.
 17. (3) #6 BARS CONT. T&B AT EDGE OF SLAB W/ 2" CL. TOP & BOTT.
 18. PRE-ENGINEERED METAL BUILDING COLUMN
 19. (4) 3/4" DIA. x 1'-2" H.S. ANCHORS AT EACH COL.



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PROJECT MANAGER:	JDD
ENGINEER:	DJR
DESIGNER:	JDD
DRAWN BY:	JDD

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION
 BGJWSC Project No. 906
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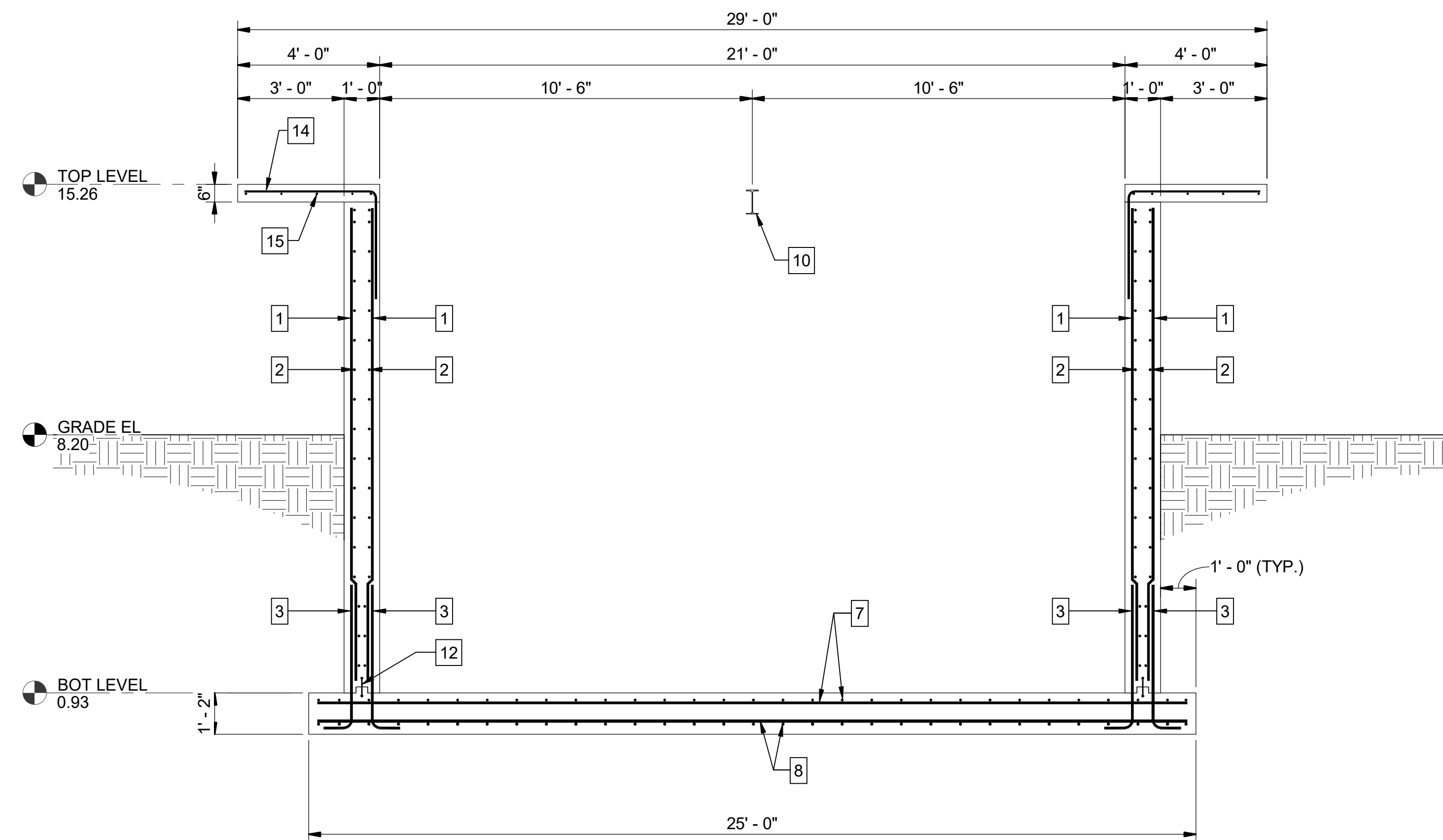
FILTER - SECTIONS

S-504

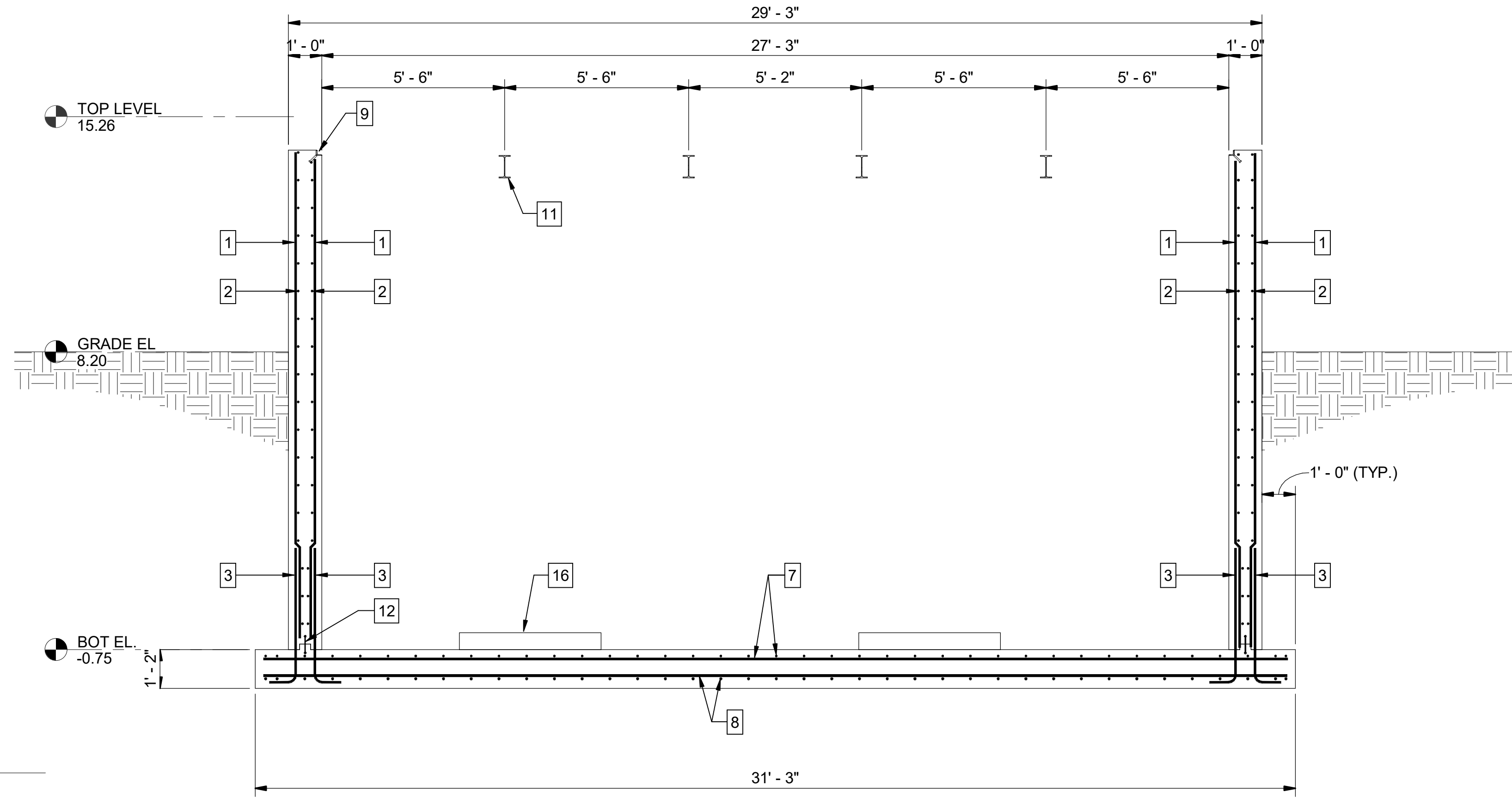
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C SECTION
S-501 SCALE: 3/8" = 1'-0"



D SECTION
S-502 SCALE: 3/8" = 1'-0"



KEYED NOTES: #

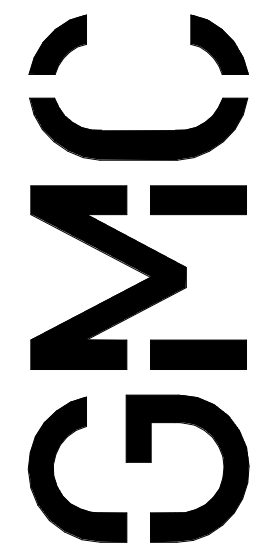
1. #6 VERTICAL @ 10" O.C. W/ 2" CL. (TYP.)
2. #6 HORIZONTAL @ 10" O.C.
3. #6 DOWEL @ EACH VERTICAL
4. BLANK
5. BLANK
6. BLANK
7. #6 @ 10" O.C. EACH WAY W/ 2" CL. TOP (TYP.)
8. #7 @ 10" O.C. EACH WAY W/ 3" CL. BOTT. & SIDES (TYP.)
9. PREFABRICATED GRATING SEAT EMBED
10. W8x15 GALVANIZED GRATING SUPPORT BEAM
11. W10x15 GALVANIZED GRATING SUPPORT BEAM
12. 6" PVC WATERSTOP (TYP.)
13. BLANK
14. #5 BENT BARS @ 8" O.C. W/ 2" CL. TOP
15. #5 CONTINUOUS @ 12" O.C.
16. 6" EQUIPMENT PAD (SEE S-911)

FILTER - SECTIONS

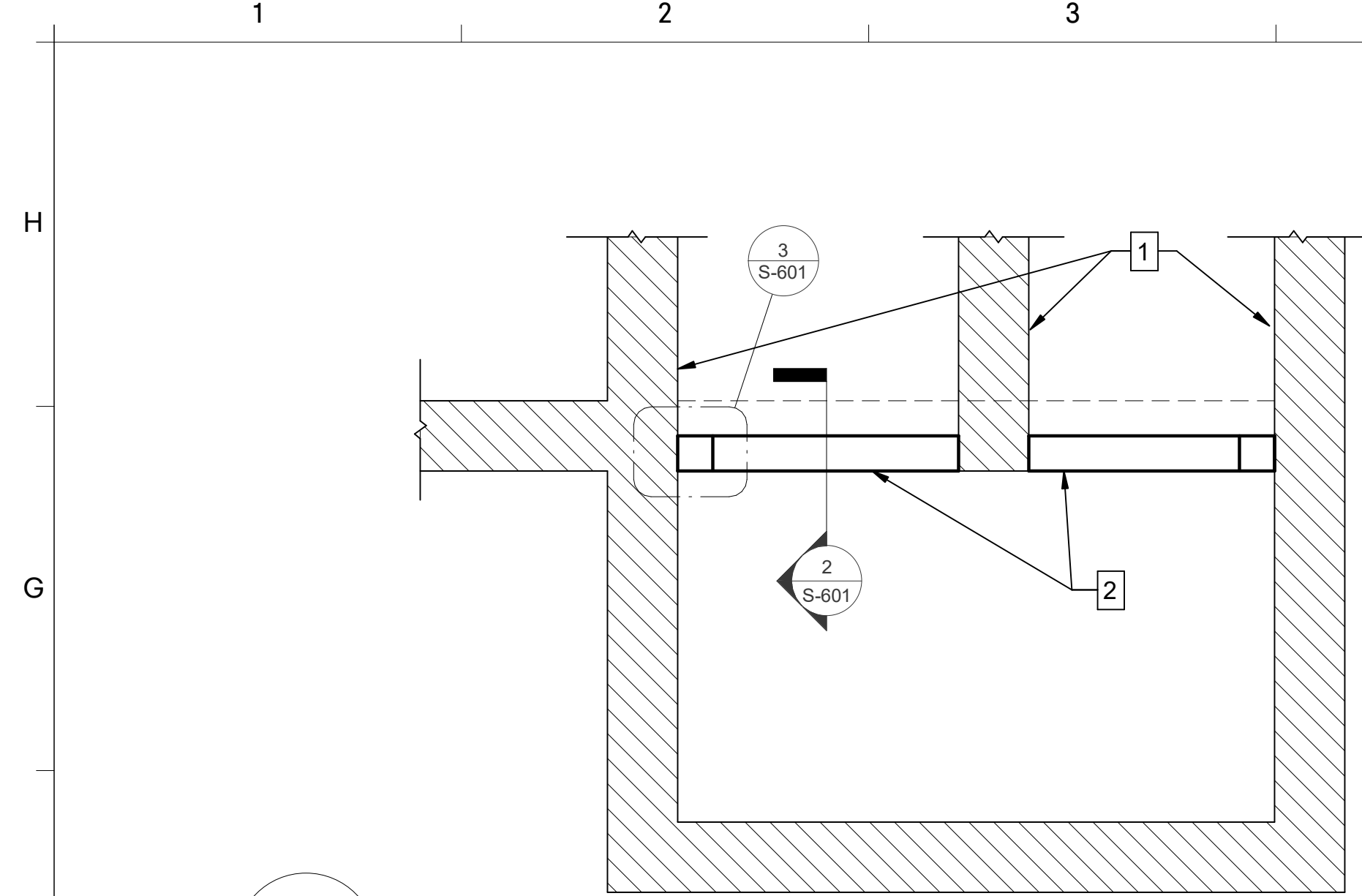
S-505

2019 WPCF REHABILITATION
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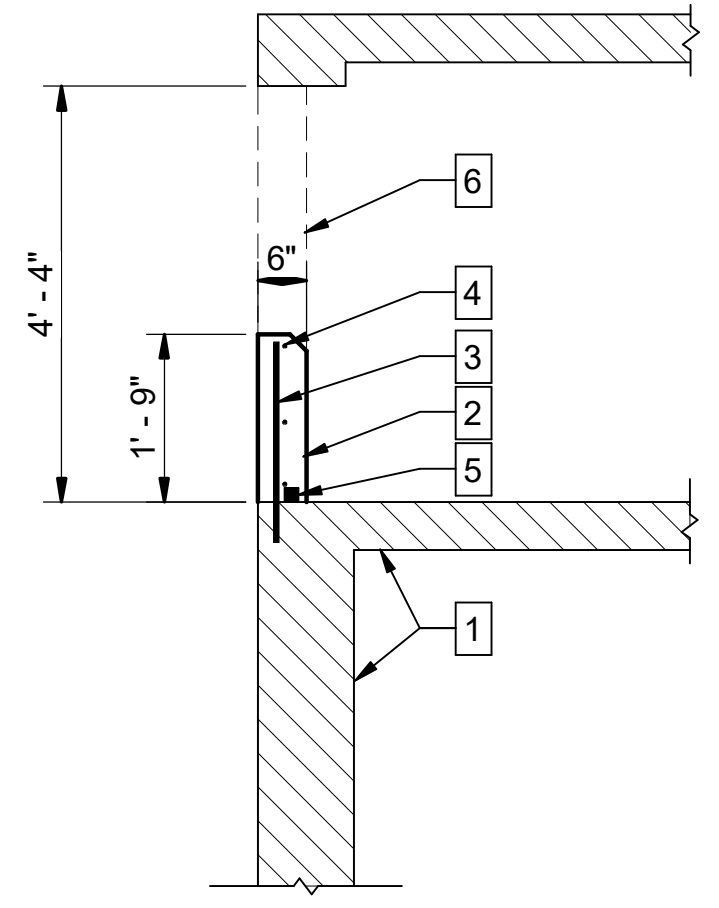
ISSUE	DATE	ISSUE	DATE
30% SUBMITTAL	10.01.2019	35 Abercorn Street,	
60% SUBMITTAL	12.16.2019	Suite 200	
100% SUBMITTAL	03.12.2020	Savannah, GA 31401	
FINAL	06.15.2020	T 912.655.6790	
PROJECT MANAGER:	JDD	GMCNETWORK.COM	
ENGINEER:	JDD		
DESIGNER:	JDD		
DRAWN BY:	JDD		



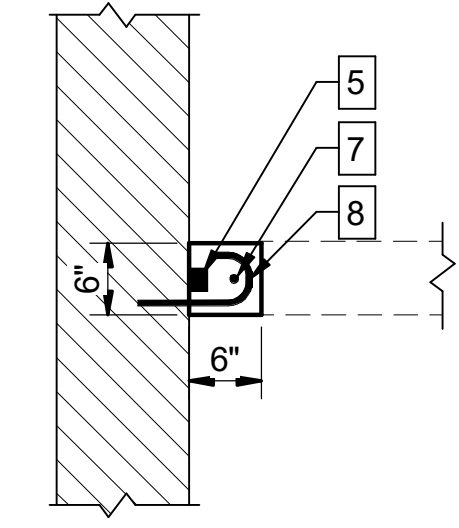
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1 CC WEIR WALL PLAN
S-601 SCALE: 1/2" = 1'-0"



2 CC WEIR WALL SECTION
S-601 SCALE: 1/2" = 1'-0"



3 CC WEIR WALL VERT. WAL
S-601 SCALE: 3/4" = 1'-0"

- KEYED NOTES: #**
1. EXISTING CHANNEL WALLS
 2. NEW WEIR WALL
 3. #5 VERT. @ 12" O.C. CENTERED IN WALL DRILLED & EPOXIED INTO EXIST. WALL W/ 6" (MIN.) EMBEDMENT
 4. #4 HORZ. @ 12" O.C. w/ 2" CLEAR TOP DRILLED & EPOXIED INTO EXIST. WALL W/ 6" (MIN.) EMBEDMENT
 5. RETROFIT BITUMAN WATERSTOP (BOTTOM & SIDES)
 6. 6"x6" WEIR WALL BEYOND
 7. 1-#6 VERT. CENTERED IN CONCRETE
 8. #4 HOOK @ 12" O.C. DRILLED & EPOXIED INTO EXIST. WALL W/ 6" (MIN.) EMBEDMENT

**CHLORINE CONTACT
TANK MODIFICATIONS**

S-601

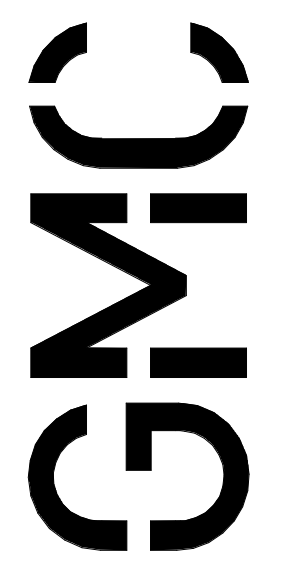


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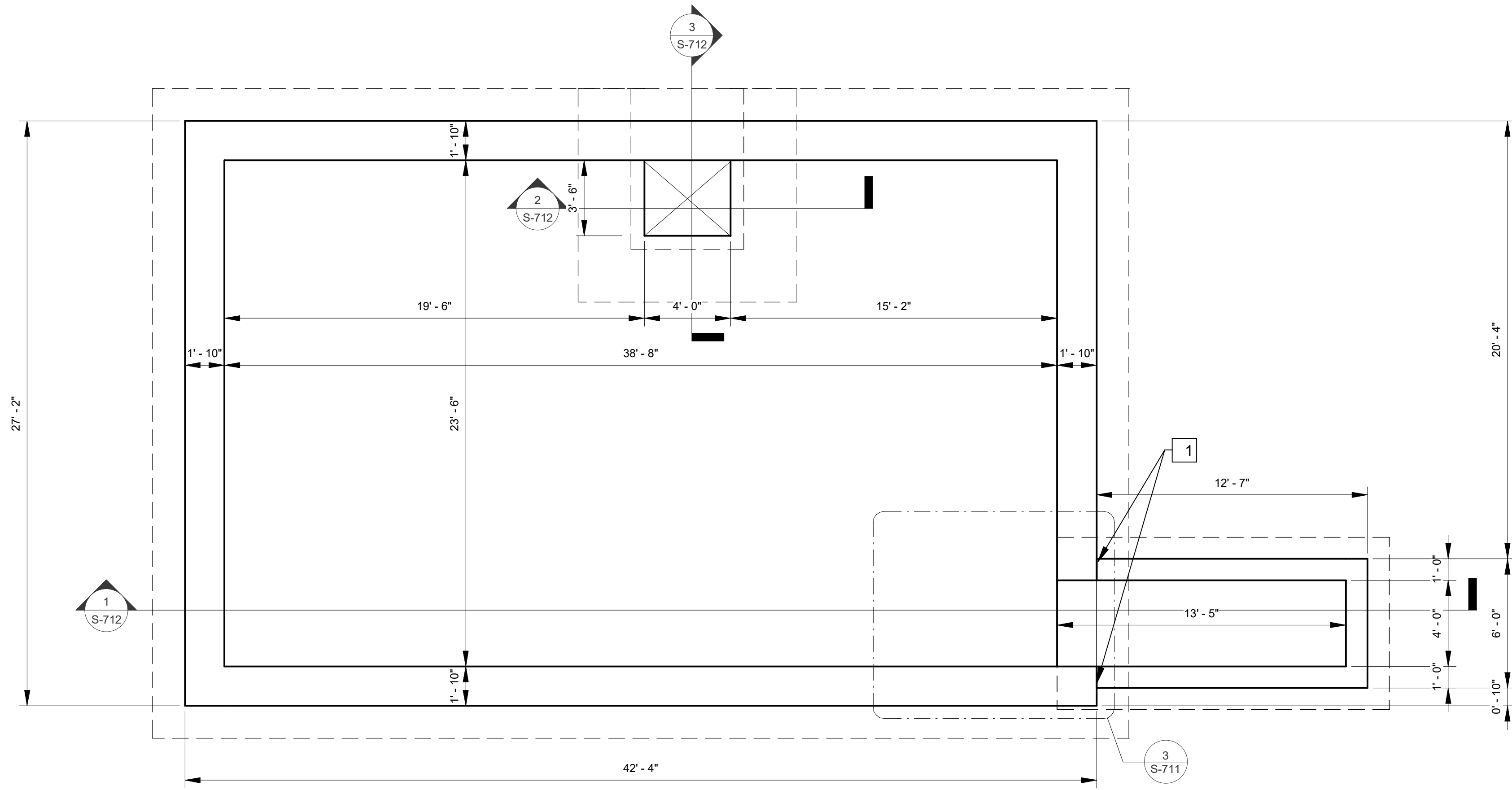
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PROJECT MANAGER:	JDD
ENGINEER:	JDD
DESIGNER:	JDD
DRAWN BY:	JDD

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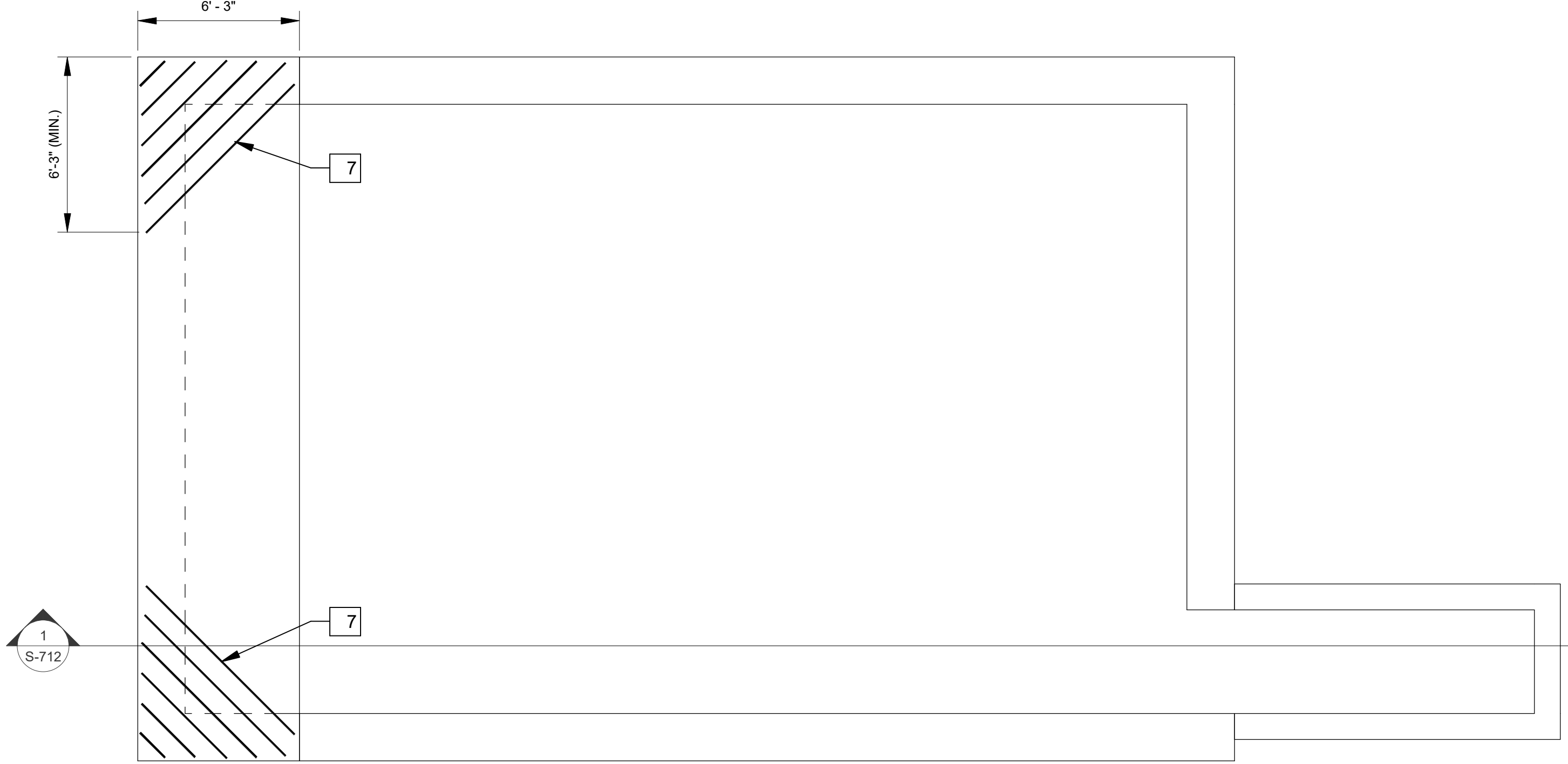


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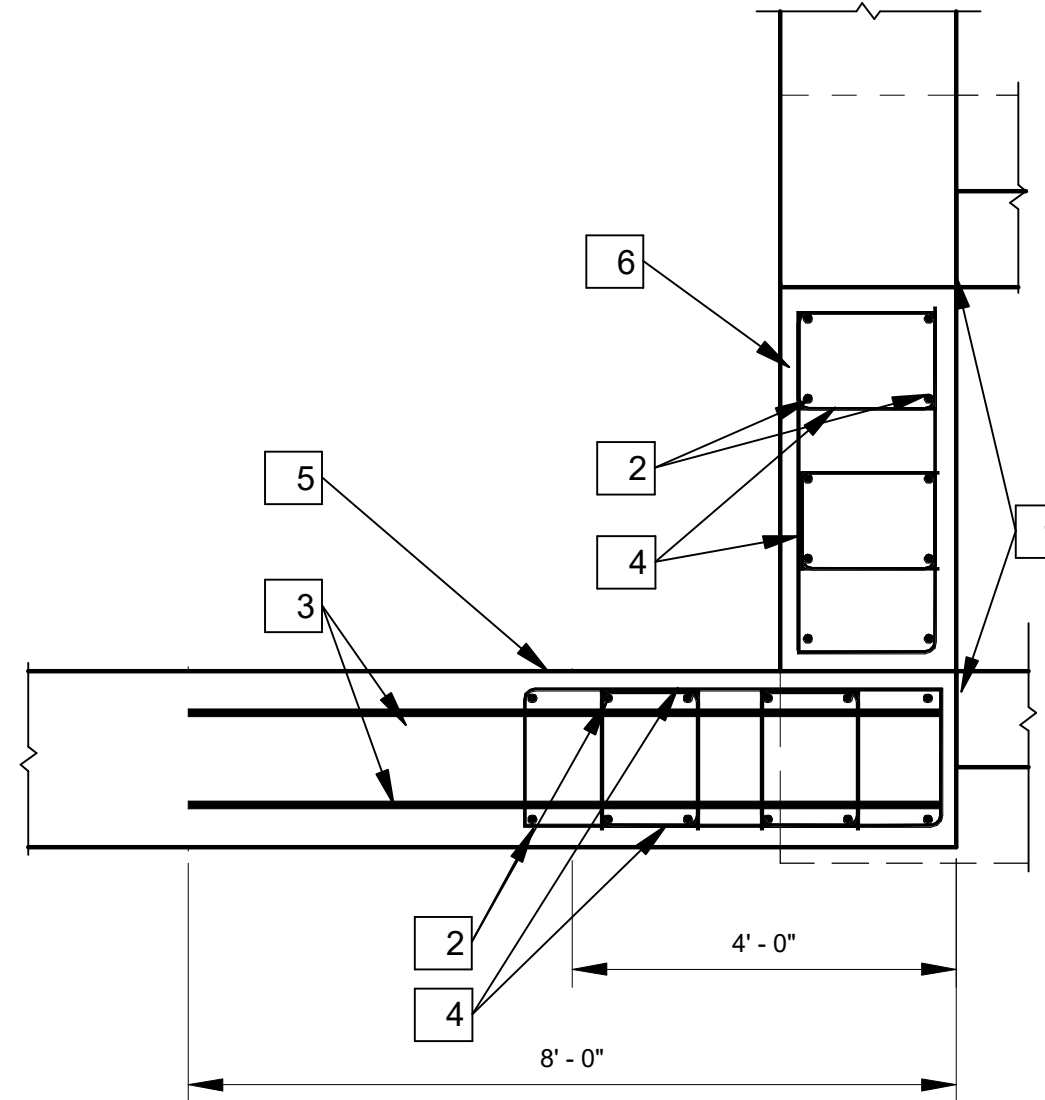


- REQUIRED NOTES: #**
1. PROVIDE TYPICAL EXPANSION JOINT BETWEEN TROUGH AND PRIMARY WALL
 2. #9 @ 10" O.C. VERT. EA. FACE FOR 4'-0" (MIN.) FROM EACH CORNER (TYP.)
 3. #8x8'-0" @ 5" O.C. EA. FACE W/ 2" CL. (TYP.)
 4. #3 STIRRUPS @ 9" O.C. AS INDICATED W/ 2" CL. (TYP.)
 5. EXTEND REINF. INDICATED IN THIS AREA FULL HEIGHT OF WALL
 6. EXTEND REINF. INDICATED IN THIS AREA TO BOTTOM OF TROUGH SLAB
 7. #6 @ 10" O.C. CORNER SLAB REINFORCMENT W/ 1 1/2" CL. TOP

1 LOWER PLAN
S-711 SCALE: 1/4" = 1'-0"



2 UPPER PLAN
S-711 SCALE: 1/4" = 1'-0"



3 TROUGH/PIT INTERSECTION
S-711 SCALE: 1/2" = 1'-0"

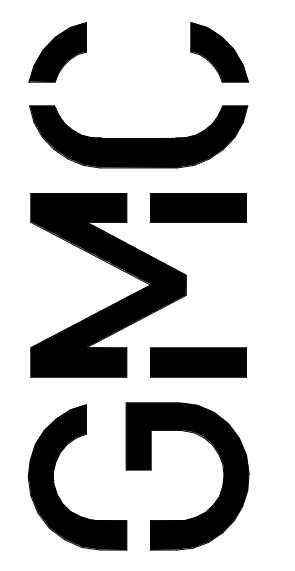
2019 WPCF REHABILITATION
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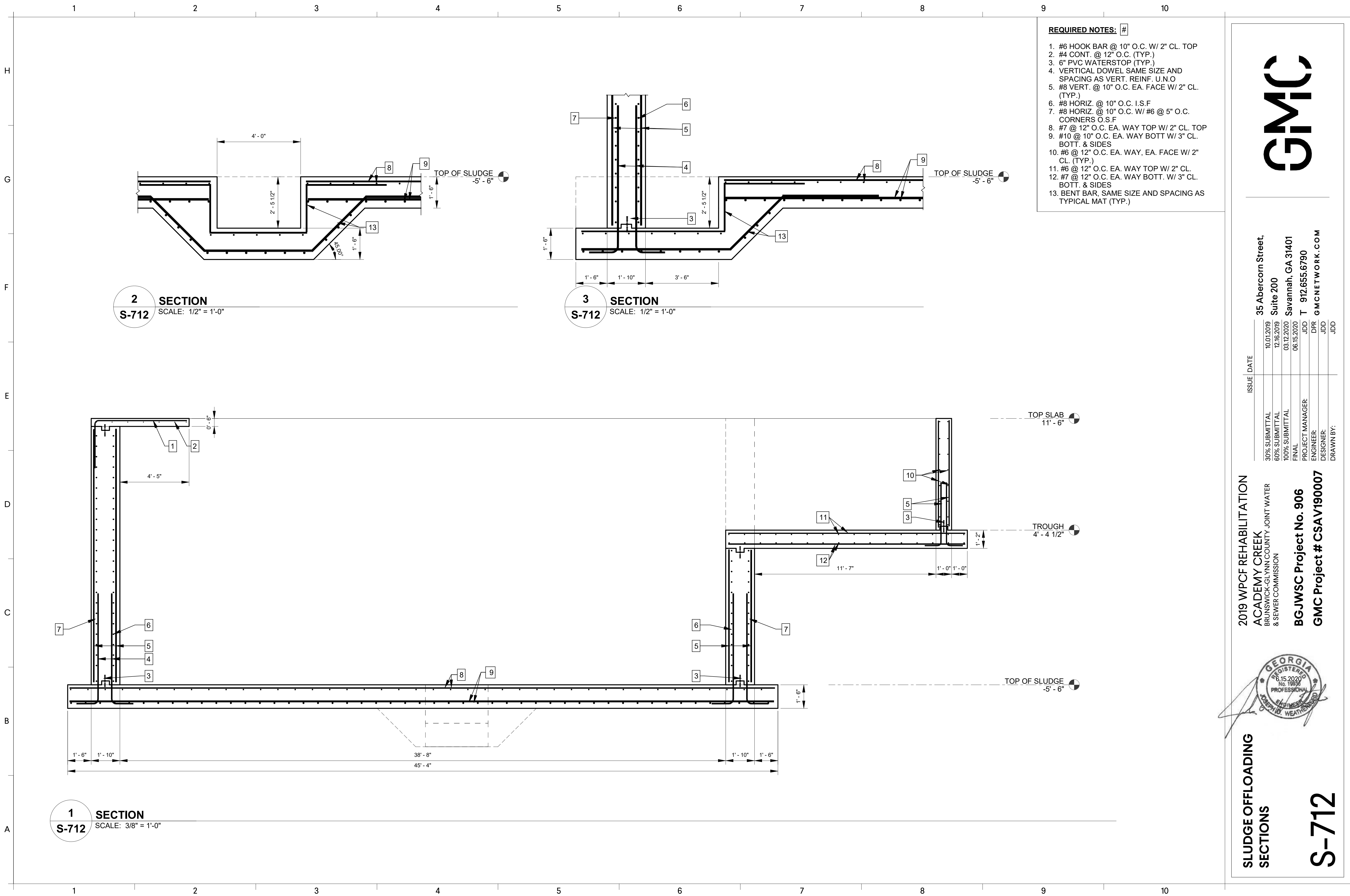
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FINAL	06.15.2020

PROJECT MANAGER:	JDD
ENGINEER:	JDD
DESIGNER:	JDD
DRAWN BY:	JDD

SLUDGE OFFLOADING
AREA PLANS

S-711



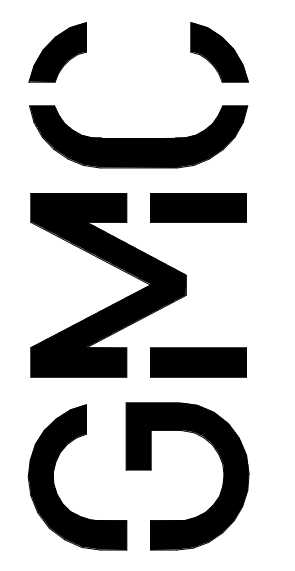


- REQUIRED NOTES: #**
1. #6 HOOK BAR @ 10" O.C. W/ 2" CL. TOP
 2. #4 CONT. @ 12" O.C. (TYP.)
 3. 6" PVC WATERSTOP (TYP.)
 4. VERTICAL DOWEL SAME SIZE AND SPACING AS VERT. REINF. U.N.O
 5. #8 VERT. @ 10" O.C. EA. FACE W/ 2" CL. (TYP.)
 6. #8 HORIZ. @ 10" O.C. I.S.F
 7. #8 HORIZ. @ 10" O.C. W/ #6 @ 5" O.C. CORNERS O.S.F
 8. #7 @ 12" O.C. EA. WAY TOP W/ 2" CL. TOP
 9. #10 @ 10" O.C. EA. WAY BOTT W/ 3" CL. BOTT. & SIDES
 10. #6 @ 12" O.C. EA. WAY, EA. FACE W/ 2" CL. (TYP.)
 11. #6 @ 12" O.C. EA. WAY TOP W/ 2" CL.
 12. #7 @ 12" O.C. EA. WAY BOTT. W/ 3" CL. BOTT. & SIDES
 13. BENT BAR, SAME SIZE AND SPACING AS TYPICAL MAT (TYP.)

2 SECTION
S-712 SCALE: 1/2" = 1'-0"

3 SECTION
S-712 SCALE: 1/2" = 1'-0"

1 SECTION
S-712 SCALE: 3/8" = 1'-0"




2019 WPCF REHABILITATION
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PROJECT MANAGER: JDD
 ENGINEER: DPR
 DESIGNER: JDD
 DRAWN BY: JDD

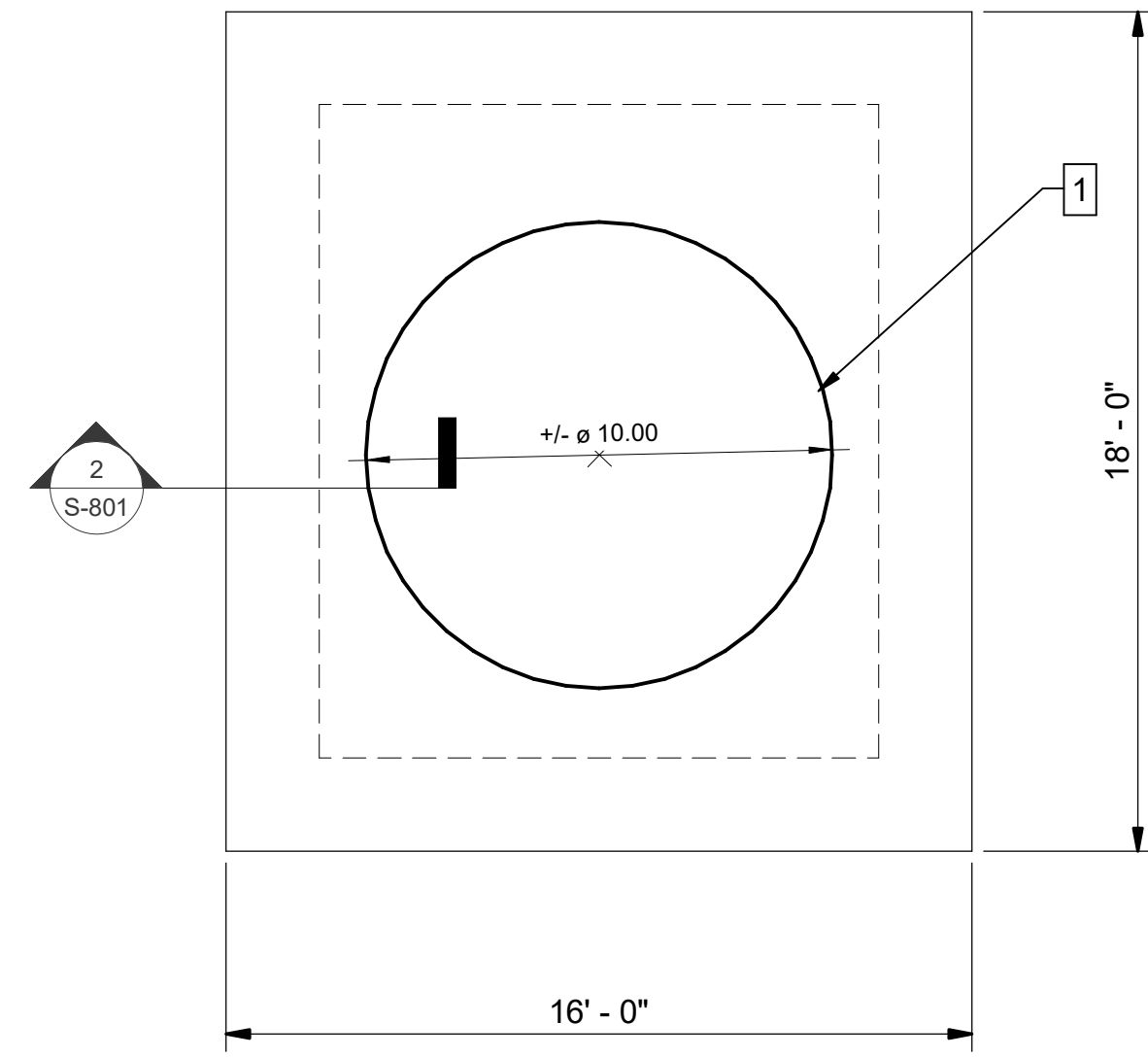


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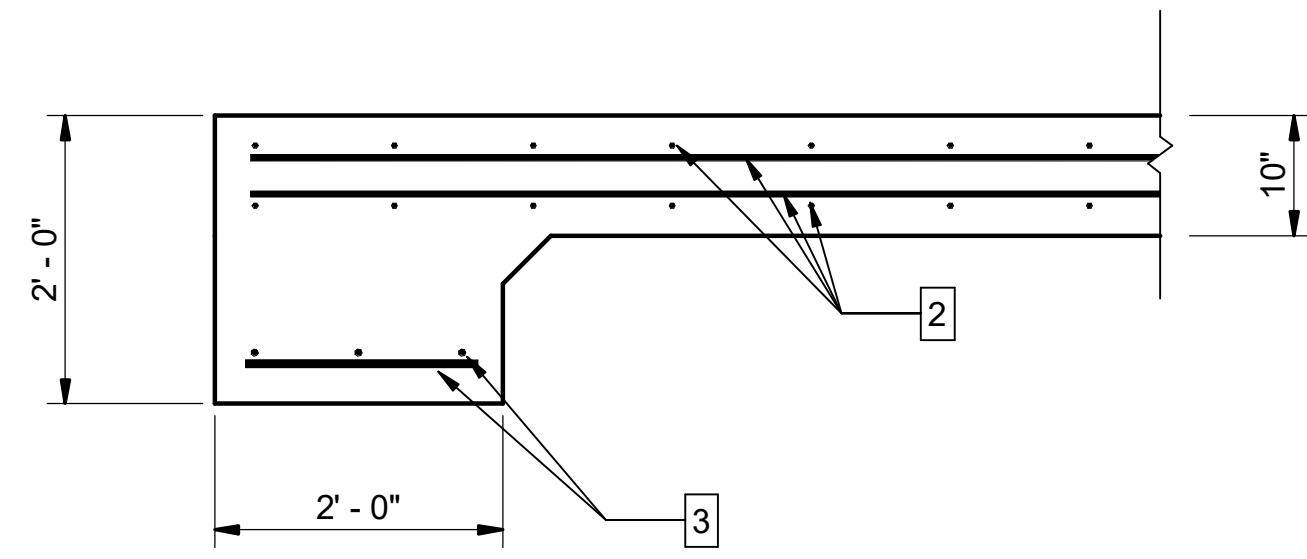
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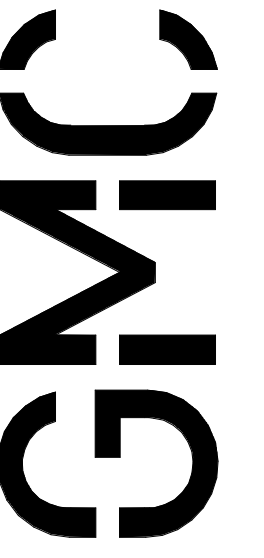
1
S-801 **BFT TANK EL**
SCALE: 1/4" = 1'-0"



2
S-801 **SECTION**
SCALE: 3/4" = 1'-0"

KEYED NOTES: #

1. BFT8020 TANK - SEE PROCESS
2. #4 @ 12" O.C. EA. WAY TOP & BOTT. W/ 2" CL. TOP & 3" CL. BOTT. (TYP.)
3. 3-#5 CONT. W/ #5 TRANS. @ 24" O.C. 3" CL. BOTT. & SIDES (TYP.)



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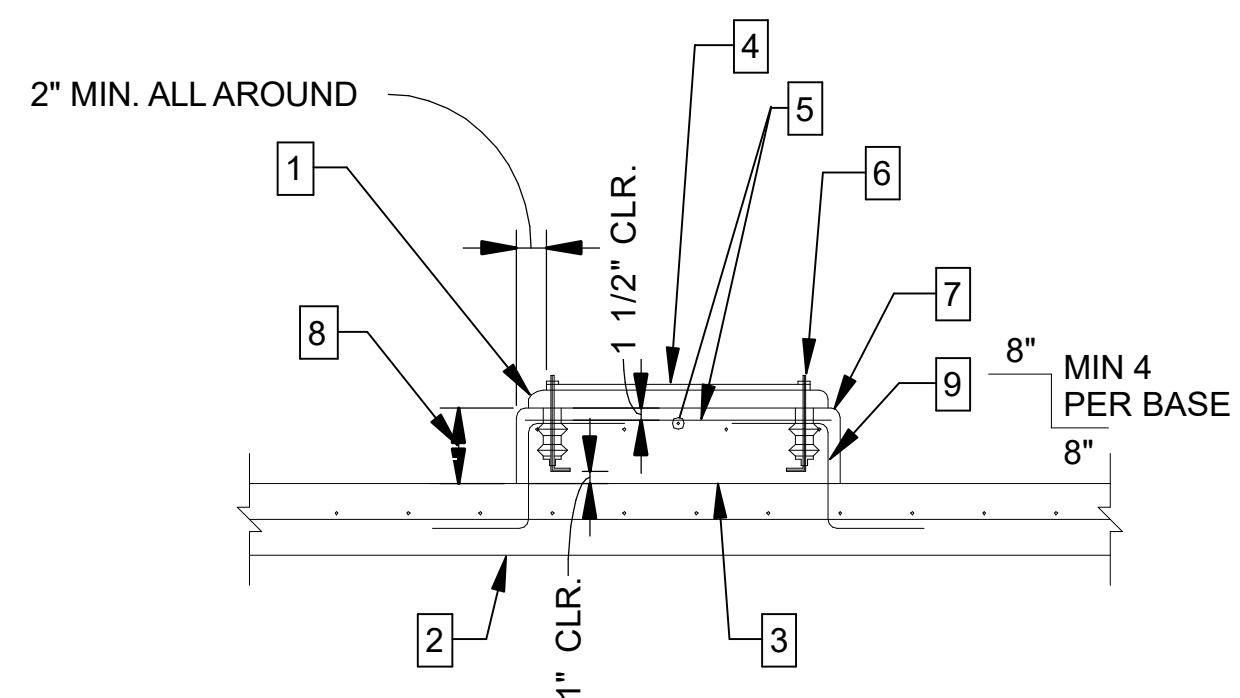
PROJECT MANAGER:	JDD
ENGINEER:	DPR
DESIGNER:	JDD
DRAWN BY:	JDD

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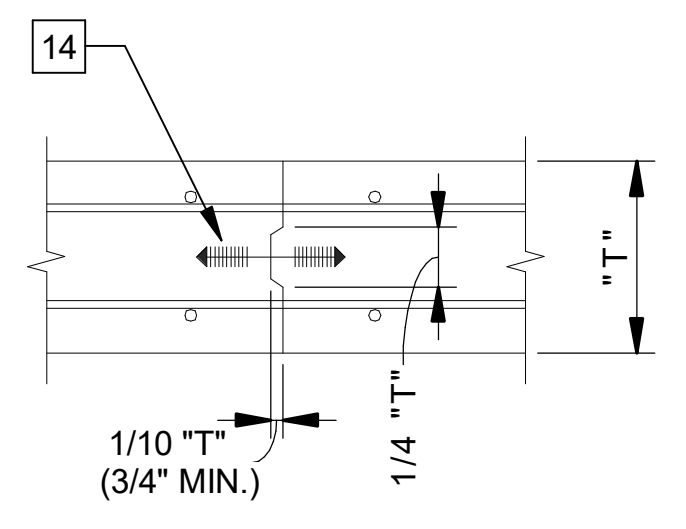


ODOR TREATMENT
SYSTEM PLAN & DETAILS

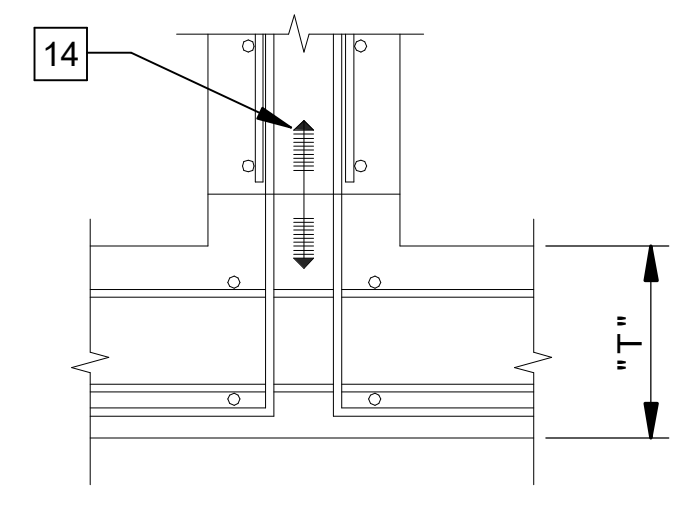
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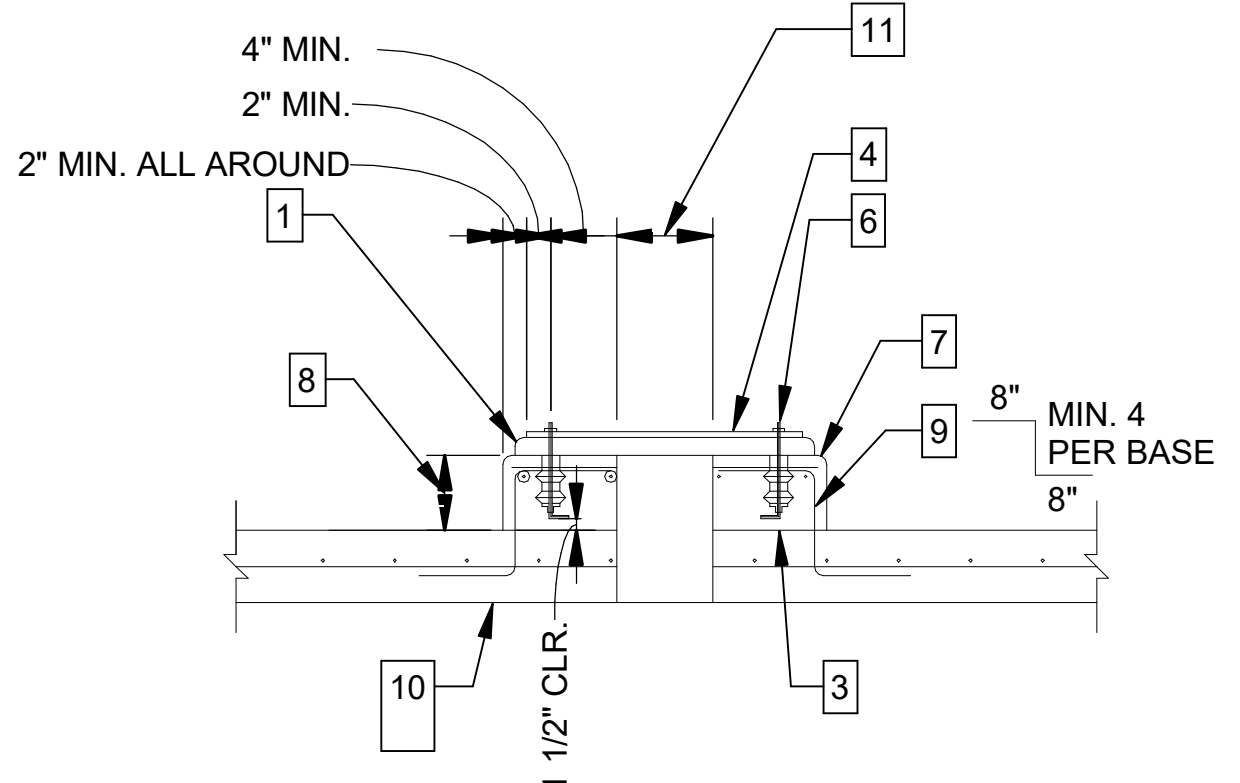
A
EQUIPMENT PAD TYPE A
S-911
SCALE: 3/4" = 1'-0"



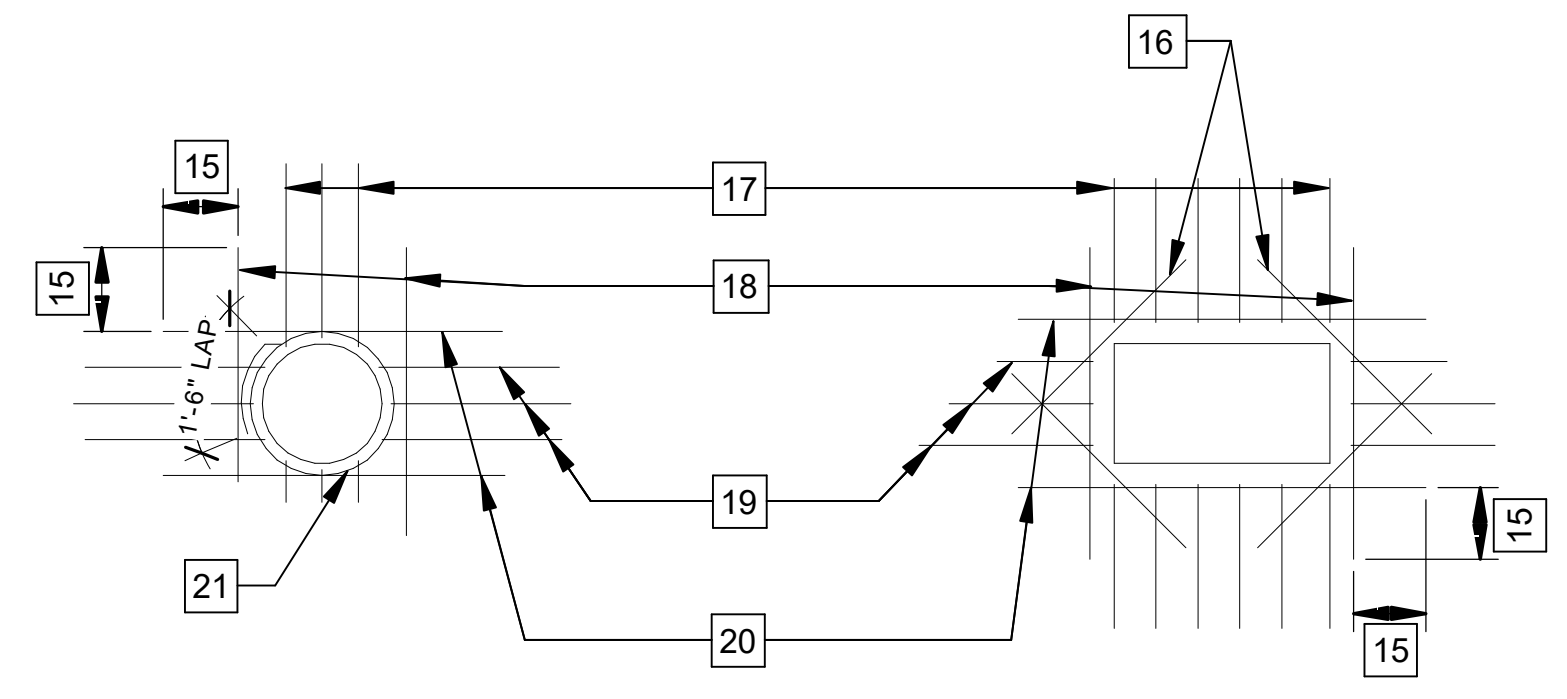
D
CONSTRUCTION JOINT
S-911
SCALE: 3/4" = 1'-0"



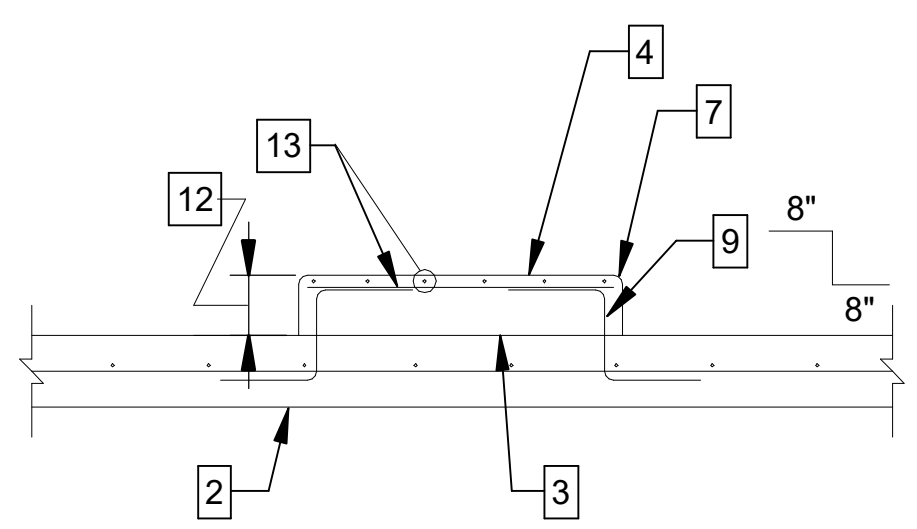
E
CONSTRUCTION JOINT
S-911
SCALE: 3/4" = 1'-0"



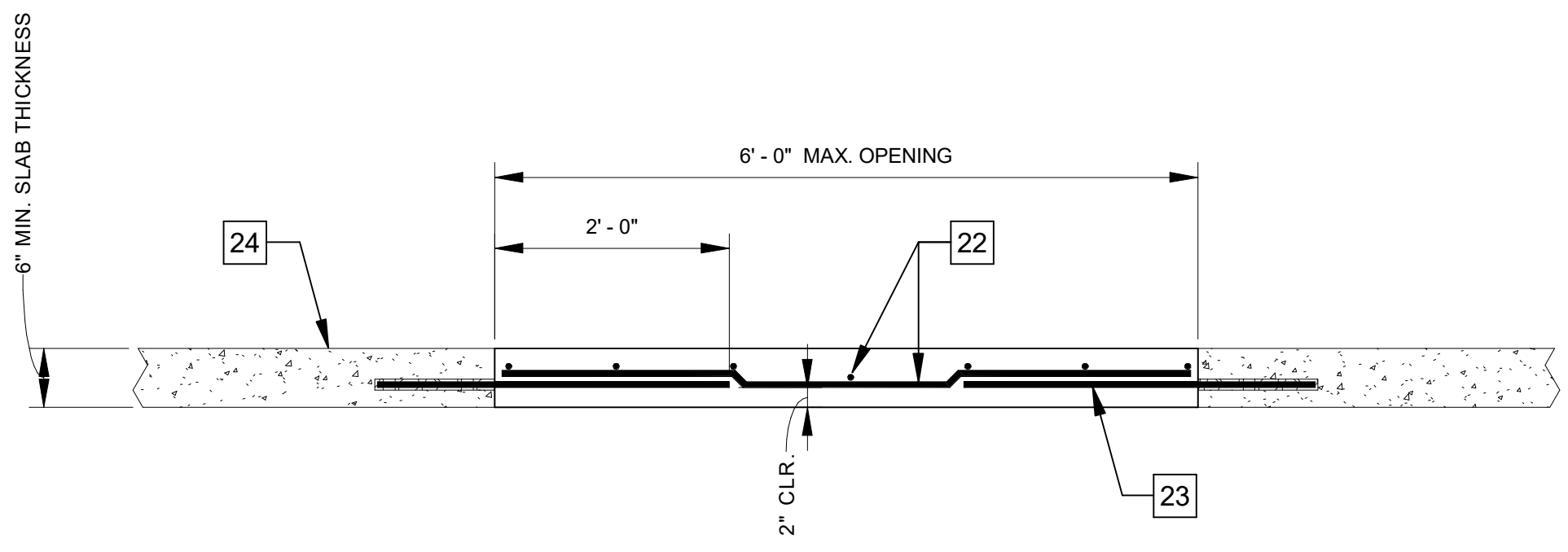
B
EQUIPMENT PAD TYPE C
S-911
SCALE: 3/4" = 1'-0"



F
OPENING REINFORCEMENT
S-911
SCALE: 3/4" = 1'-0"



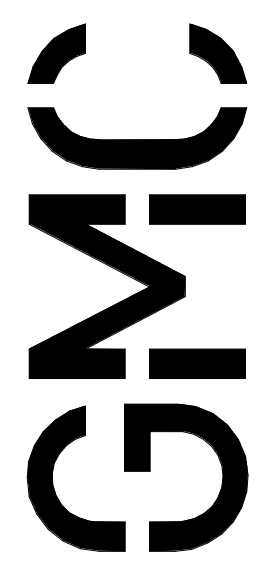
C
EQUIPMENT PAD TYPE F
S-911
SCALE: 3/4" = 1'-0"



G
TYPICAL FLOOR PATCH
S-911
SCALE: 3/4" = 1'-0"

- REQUIRED NOTES: #**
- 1 1/2" FLOWABLE NON-SHRINK GROUT (TYP.)
 - SUSPENDED SLAB OR SLAB ON GRADE, FOR THICKNESS, SEE PLANS
 - CONSTRUCTION JOINT. LEAVE ROUGH & CLEAN
 - EQUIPMENT BASE
 - #4 @ 12" O.C. EACH WAY
 - MINIMUM ANCHOR BOLT DIMENSIONS, SEE NOTES AND ANCHOR BOLT DETAILS
 - TOOLED EDGES (3/4")
 - AS REQUIRED FOR EQUIPMENT, BOLTS AND PIPING (5 1/2" MINIMUM)
 - #4 @ 12" O.C.
 - SUSPENDED SLAB ONLY, SEE PLANS
 - OPENING SIZE, VERIFY W/ PLANS & EQUIPMENT MFR. FORM TO RETAIN GROUT
 - PAD HEIGHT AS REQ'D, 5" MAX.
 - #3 @ 12" O.C. EA. WAY, 1" CLR.
 - WATERSTOP (SEE SECTIONS FOR SIZE AND TYPE)
 - PROVIDE MIN LAP AS NOTED OR SHOWN ON PLANS (TYP.)
 - ADD 1-#5x4'-0" DIAG AT EA CORNER FOR EA LAYER OF REINF.
 - AREA OF BARS EQUAL BAND "B" BARS CUT
 - STEEL REINF. CUT BAND "A"
 - AREA OF BARS EQUAL BAND "A" BARS CUT
 - #5 HOOP DIA OF OPNG #8", IN EA LAYER OF REINF FOR OPNGS LARGER THAN 8"
 - #5 @ 12" O.C. EACH WAY
 - #5 x 3'-0" DOWELS @ 12" O.C. ALL AROUND EMBED 6" (MIN.) INTO EXISTING CONCRETE & EPOXY (LAP W/ SLAB REINFORCING)
 - EXISTING CONCRETE SLAB

- EQUIPMENT PAD NOTES:**
- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
 - THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
 - ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
 - ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
 - EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
 - WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN, THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.



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STRUCTURAL STANDARD DETAILS
S-911

ISSUE	DATE
30% SUBMITTAL	10.01.2019
60% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
FINAL	06.15.2020

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 GMCNETWORK.COM

PROJECT MANAGER: JDD
 ENGINEER: JDD
 DESIGNER: JDD
 DRAWN BY: JDD



MOUNTING HEIGHT NOTES

01. **TYPICAL HEIGHTS:** MOUNTING HEIGHTS INDICATED HEREIN ARE TYPICAL MOUNTING HEIGHTS FOR DEVICE INDICATED. MOUNTING HEIGHTS FOR SUBMITTED PRODUCTS MAY VARY BY MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE INDICATED MOUNTING HEIGHT AND THE MANUFACTURER'S RECOMMENDED MOUNTING HEIGHT, PRIOR TO INSTALLATION OF THE DEVICE.

02. THE GENERAL CONTRACTOR SHALL REFER TO PLANS FOR LOCATIONS OF DEVICES SHOWN HEREIN.

03. **ADA DEVICES:** ALL DEVICES AND FIXTURES NOTED AS "ADA" OR "ACCESSIBLE" SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE BUILDING CODES.

04. **ELECTRICAL DEVICES:** SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

05. **MECHANICAL/PLUMBING DEVICES:** SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF MECHANICAL AND PLUMBING DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE MECHANICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

06. INSTALL ADA / ANSI COMPLIANT UNDER LAVATORY GUARDS ON ALL EXPOSED SINK PIPING.

07. CONTRACTOR MUST MAINTAIN ON THE JOB SITE A COPY OF THE CURRENT ADAAG STANDARDS AND THE IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS.

08. DIMENSIONAL DESIGNATIONS OF +/- TO HAVE +/- 1/2" TOLERANCE UNLESS OTHERWISE NOTED.

09. DESIGNATION FOR FINISHED FACE OF WALL (FFW) TO BE TAKEN FROM NEAREST CONTINUOUS SURFACE IN THE PLANE OF THE WALL [I.E. FACE OF FLOOR BASE IF FACE OF BASE EXTENDS BEYOND FACE OF WALL].

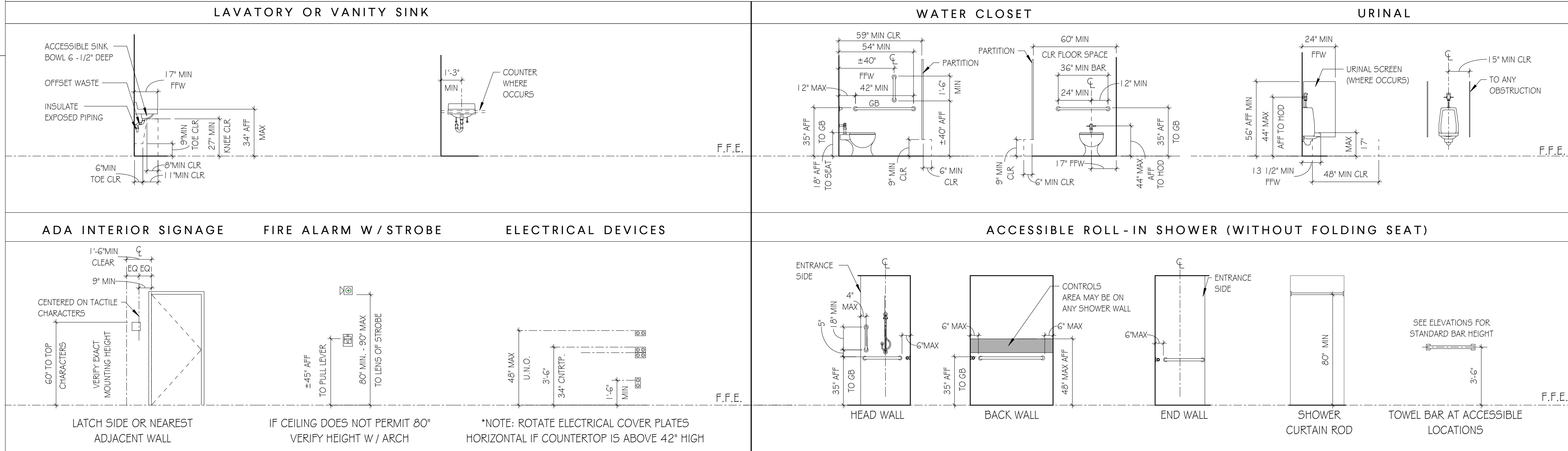
ABBREVIATIONS & ACRONYMS

AFF	ABOVE FINISHED FLOOR
BOGB	BOTTOM OF GRAB BAR
FFE	FINISHED FLOOR ELEVATION
FFW	FINISH FACE OF WALL
GB	GRAB BAR
HOD	HIGHEST OPERABLE DEVICE
MAX	MAXIMUM
MIN	MINIMUM
TOGB	TOP OF GRAB BAR
WC	WATER CLOSET
W/	WITH
W/O	WITHOUT

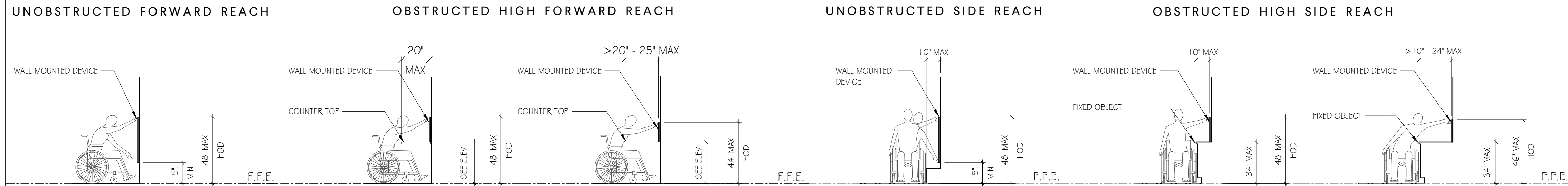
TYP. TOILET LAYOUTS

NOTES:
 1. LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.
 2. SANITARY NAPKIN DISPENSERS TO BE LOCATED AT ALL FEMALE, UNISEX, & FAMILY TOILETS

TYPICAL ACCESSIBLE PLUMBING DETAILS - ELEVATION

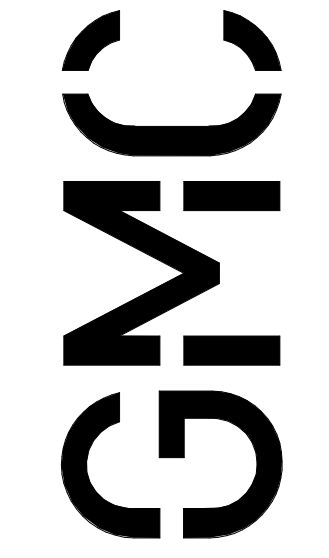


TYPICAL REACH RANGES



TYPICAL ACCESSIBLE MOUNTING HEIGHTS

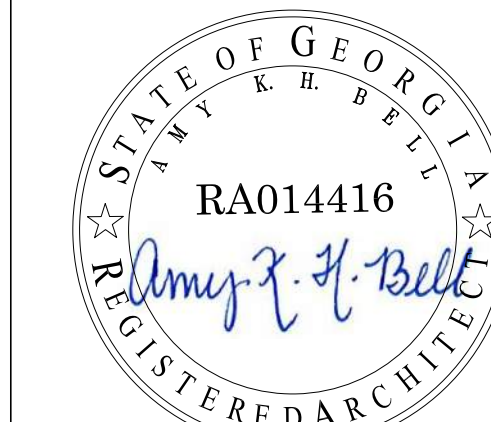
TOILET ACCESSORY TYPE	DRAWING DESIGNATION	HEIGHT OF OPERABLE DEVICE
TOILET TISSUE HOLDER	TA01, TA040	48" MAX
MIRROR AT ACCESSIBLE CONDITIONS	TA23, TA24, TA25	40" MAX BOTTOM OF REFLECTIVE SURFACE
PAPER TOWEL DISPENSER	TA03, TA04, TA05	48" MAX HEIGHT OF OPERABLE DEVICE
WASTE RECEPTACLE	TA06, TA07, TA08	48" MAX HEIGHT OF OPERABLE DEVICE
WASTE RECEPTACLE	TA09	48" MAX HEIGHT OF OPERABLE DEVICE
WASTE RECEPTACLE	TA10, TA11	48" MAX HEIGHT OF OPERABLE DEVICE
WASTE RECEPTACLE	TA12, TA13, TA14	48" MAX HEIGHT OF OPERABLE DEVICE
SOAP DISPENSER	TA15, TA16	48" MAX HEIGHT OF OPERABLE DEVICE
SAFETY GRAB BAR	TA20, TA21, TA22	18", 36", 42"
ROBE/COAT HOOK AT ACCESSIBLE LOCATIONS (SEE ELEVATIONS FOR STANDARD HOOK HT)	TA26	48" MAX HEIGHT OF OPERABLE DEVICE
TOILET SEAT COVER DISPENSER	TA30	48" MAX HEIGHT OF OPERABLE DEVICE
TOILETRY SHELF	TA44	40" MIN - 48" MAX
HAND DRYER	TA50	48" MAX HEIGHT OF OPERABLE DEVICE
MOP AND BROOM HOLDER	TAG0	5'-6"
FIRE EXTINGUISHER	FE	48" MAX HEIGHT OF OPERABLE DEVICE
FIRE EXTINGUISHER CABINET	FEC	48" MAX HEIGHT OF OPERABLE DEVICE
E.W.C. (ACCESSIBLE)		36" MAX TO SPOUT, 27" MIN
E.W.C. (STANDARD)		38" - 43" TO SPOUT



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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MIEF
DESIGNER:	GS
DRAWN BY:	FN/HKD

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER & SEWER COMMISSION
 BGJWSC Project No. 906
 GMC Project # CSAV190007



ACCESSIBILITY INFORMATION
A0.02

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GENERAL NOTES - PARTITIONS

1. UL LISTED ASSEMBLIES

A. WHERE UL ASSEMBLY NUMBERS ARE REFERENCED ABOVE, PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS SET FORTH BY THE UL FIRE RESISTANCE DIRECTORY. NO DEVIATION SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT AND/OR BUILDING OFFICIAL.

2. FIRE BARRIERS, FIRE PARTITIONS, & SMOKE BARRIERS [FIRE-RATED]

- A. ALL PERIMETER JOINTS MUST BE PROTECTED BY UL LISTED FIRE-RESISTANT JOINT SYSTEMS.
- B. ALL PENETRATIONS OF RATED ASSEMBLIES MUST BE PROTECTED BY UL LISTED THROUGH-PENETRATION FIRESTOPPING ASSEMBLIES.
- C. FIRE DAMPERS MUST PROTECT HVAC DUCT PENETRATIONS.
- D. IDENTIFY FIRE WALLS, SMOKE BARRIERS, ETC., IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, BY STENCILING "X-HOUR FIRE AND /OR SMOKE BARRIER" IN 3-INCH HIGH CONTRASTING LETTERS, 3/8-INCH MINIMUM STROKE. LOCATE WITHIN 15 FEET OF END OF WALL, AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.

3. SMOKE PARTITIONS [NON-RATED]

- A. ALL PERIMETER JOINTS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
- B. ALL PIPING, ELECTRICAL, AND DUCT PENETRATIONS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.

4. SOUND INSULATION

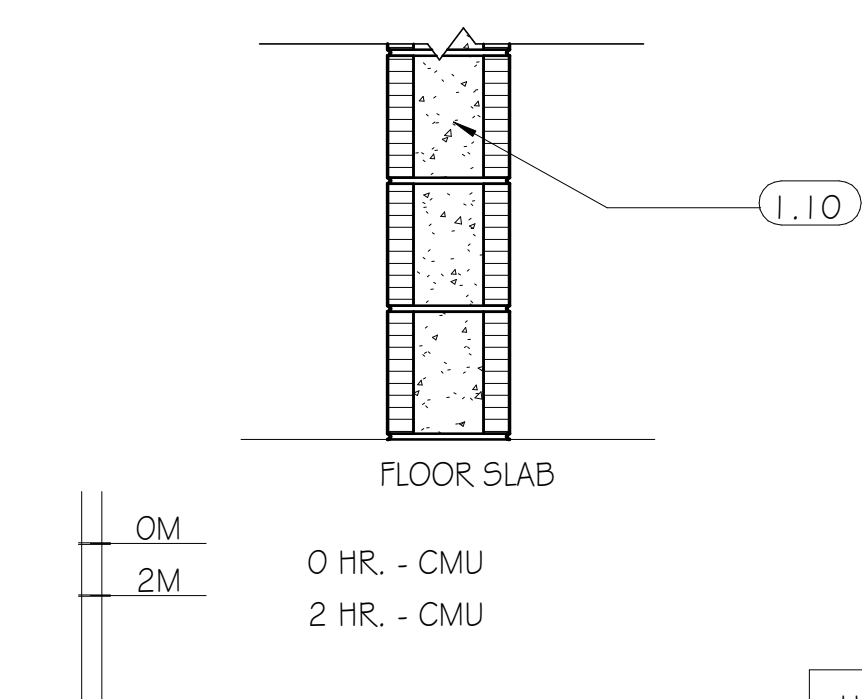
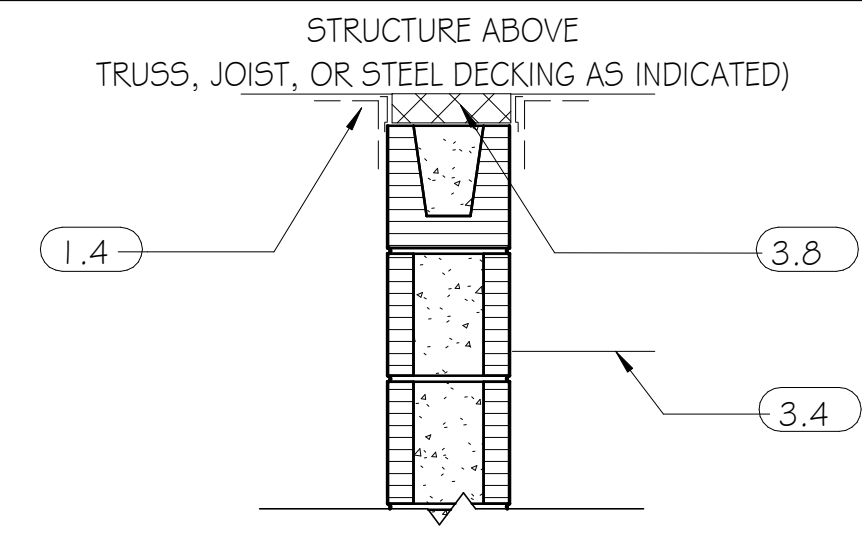
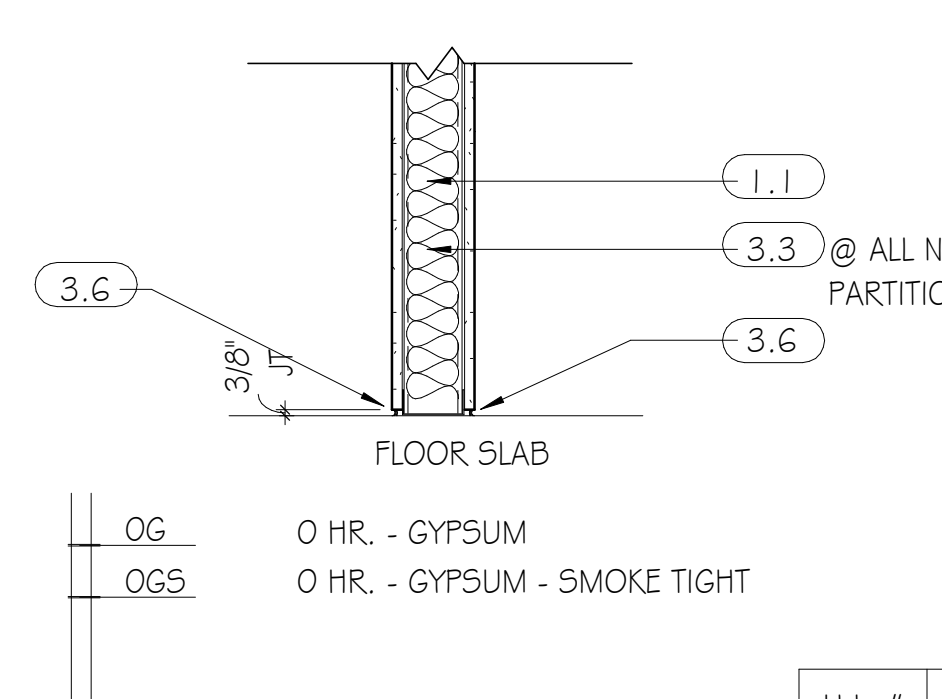
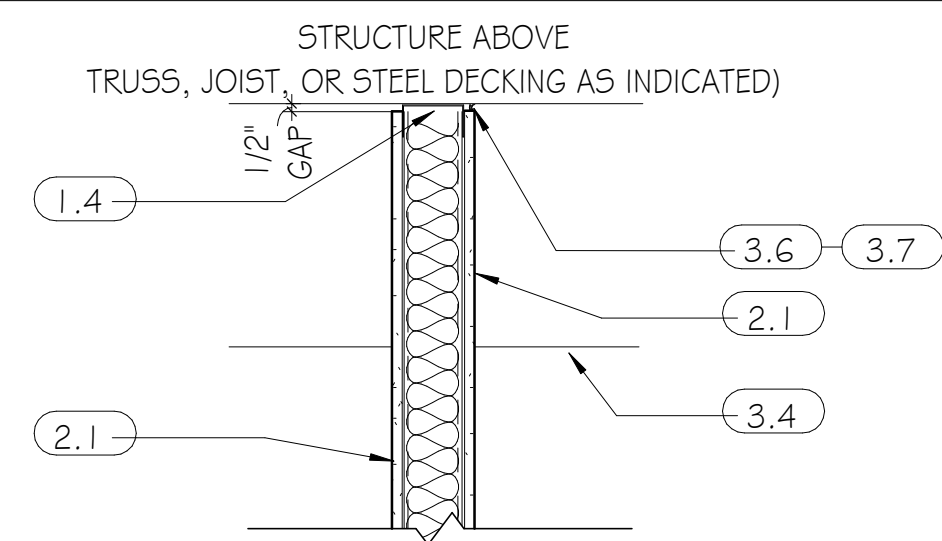
- A. INSULATION THICKNESS SHALL MATCH CAVITY DEPTH UNLESS NOTED OTHERWISE.
- B. INSULATE BEHIND RECESSED ITEMS IN ANY SCHEDULED ACOUSTIC PARTITIONS.
- C. INSULATION MAY BE OMITTED AT CHASES NOT EXCEEDING 10 S.F. IN AREA.

5. ACOUSTICAL SEALANT

- A. AT ALL GYP BOARD AND METAL STUD PARTITIONS: REQUIRED AT BOTTOM AND TOP RUNNERS AND AT WALL ANGLES WHERE DISSIMILAR MATERIALS MEET (SEE DETAILS).
- B. AT SCHEDULED ACOUSTIC PARTITIONS: AIRTIGHT SEAL IS REQUIRED AT ALL PENETRATIONS.
- C. ELECTRICAL AND OTHER BOXES TO BE WRAP-SEALED (SEE DETAILS).

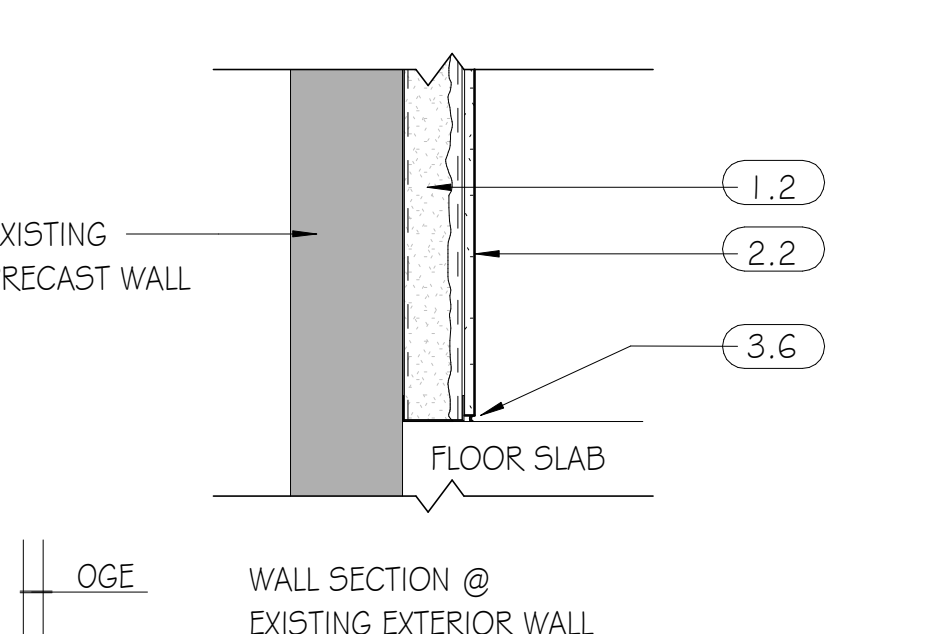
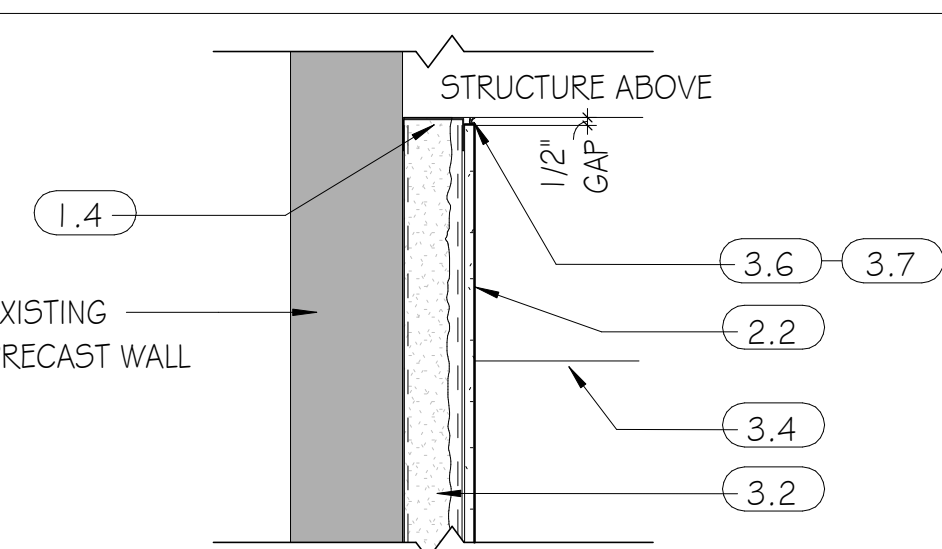
6. PARTITION COORDINATION

- A. COMPLY WITH "PARTITION COORDINATION WITH OTHER TRADES" REQUIREMENTS LOCATED UNDER "GENERAL NOTES" ON PROJECT INFORMATION DRAWING G1.00.



DRAWING MARK	DESCRIPTION	U.L. #	N/A
STC	47		

DRAWING MARK	DESCRIPTION	U.L. #	U905
STC	50		



DRAWING MARK	DESCRIPTION	U.L. #	N/A
STC			

NUMBERED NOTES

- 1.1 METAL STUDS 1 6" OC. DOUBLE-STUD JAMBS FULL HT. AT DOOR OPENINGS
- 1.2 3 5/8" METAL STUDS 24" OC.
- 1.3 PLUMBING CHASE. 1-5/8" METAL STUDS 1 6" OC IN TWO ROWS. WIDTH VARIES
- 1.4 DEFLECTION TRACK (0.0329" MTL. THICKNESS). MAINTAIN MIN. 1/2" STUD GAP
- 1.5 CONTINUOUS TOP TRACK (0.0329" METAL THICKNESS)
- 1.6 RESILIENT CHANNELS 24" OC VERTICAL
- 1.7 STUD BRACING MIN. 48 IN. OC (24" OC AT WALL-HUNG CABINETS)
- 1.8 STEEL STUD OR RUNNER BRACING, FULL WIDTH OF CAVITY, 48" OC VERT. MAX
- 1.9 NEW OR EXISTING SUBSTRATE
- 1.10 CMU (UL LISTED WHERE APPLICABLE). SEE STRUCTURAL FOR REINFORCING, LINTEL, AND TOP BRACING REQUIREMENTS
- 1.11 AT INTERIOR FURRING: PROVIDE 7/8 IN. HAT-SHAPED METAL FURRING
- 1.12 AT EXTERIOR (PERIMETER) FURRING: PROVIDE 2 IN. Z-SHAPED METAL FURRING W/ MIN. R-8 BOARD INSULATION
- 2.1 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD
- 2.2 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD
- 2.3 TWO LAYERS 5/8 IN. TYPE 'X' GYP. BD
- 2.6 1 IN. THICK GYPSUM LINER PANEL
- 2.7 ONE LAYER 5/8 IN. TYPE 'X' GYP. BD, EACH SIDE (ABOVE CEILING)
- 2.8 TWO LAYERS 5/8 IN. TYPE 'X' GYP. BD, EACH SIDE (ABOVE CEILING)
- 2.9 ONE LAYER 1/2 IN. TILE BACKER BOARD WITH 1/4 IN. THIN-SET TILE. (UP TO INTERSECTION WITH CEILING PLANE)
- 2.10 ONE LAYER TYPE 'X' GYP. BD, AND ONE LAYER 1/2 IN. TILE BACKER BOARD WITH 1/4 IN. THICK THIN-SET CERAMIC TILE (UP TO INTERSECTION W/ CEILING PLANE).
- 2.11 ONE LAYER 5/8" TYPE 'X' GYP. BD. (GOLD BOND MR BOARD) [SEE FINISH SCHEDULE FOR CERAMIC TILE LOCATIONS]
- 2.12 TWO LAYERS 5/8" TYPE 'X' GYP. BD. (GOLD BOND MR BOARD) [SEE FINISH SCHEDULE FOR CERAMIC TILE LOCATIONS]
- 3.1 SOUND ATTENUATION BATT INSULATION. 3.5" THICK
- 3.2 3" CLOSED CELL POLYURETHANE SPRAY FORAM INSULATION
- 3.3 SOUND ATTENUATION BATT INSULATION. 3.5" THICK. DRAPE OVER & EXTEND 4 FT. EACH SIDE OF PARTITION
- 3.4 CEILING. SEE CEILING PLAN FOR TYPES / LOCATIONS
- 3.5 ACOUSTICAL CEILING PANELS. WHERE PANELS W/ COMBINED NRC/CAC RATINGS OF 0.70/35 (OR BETTER) ARE USED, DRAPED INSULATION MAY BE OMITTED
- 3.6 ACOUSTICAL SEALANT JOINT. PROVIDE CONT. BEAD UNDER EACH LAYER GYP BD
- 3.7 ACOUSTICAL SEALANT JOINT. AT FLUTED DECKS, COPE GYP. BD. TO UNDERSIDE OF DECK. FILL VOIDS W/ INSULATION. APPLY ACOUSTICAL SEALANT CONT. AT JOINT
- 3.8 UL LISTED FIRE-RESISTANCE RATED HW (HEAD OF WALL) JOINT
- 3.9 UL LISTED FIRE-RESISTANCE RATED BW (BOTTOM OF WALL) JOINT
- 3.10 EXTEND GYP BOARD TO TOP OF TRACK TO ESTABLISH A DRAFT STOP ASSEMBLY. CONDUIT TURNOUTS AND ELECTRICAL BOXES MUST STAND CLEAR OF MET. STUDS TO ALLOW FOR APPLICATION OF UNINTERRUPTED GYPSUM MEMBRANE
- 3.11 STRUCTURAL BRACE AT UNSUPPORTED END WALL CONDITIONS. SEE DETAIL

PARTITION KEY

STANDARD FRAMING	VARIANT FRAMING
TYPE 1G 3 5/8" METAL STUDS	TYPE 1G 6" METAL STUDS
TYPE 1S 4" METAL CH STUDS	TYPE 1S 2.5" 2.5" METAL CH STUDS
TYPE 0M 8" CMU	TYPE 0M 4" 4" CMU
TYPICAL PARTITION (SHOWN THUS)	VARIANT PARTITION (SHOWN THUS)

PARTITIONS USE STANDARD FRAMING EXCEPT WHERE VARIANT FRAMING SIZE IS INDICATED
 PARTITIONS USE STANDARD FRAMING EXCEPT WHERE VARIANT FRAMING SIZE IS INDICATED
 WHERE APPLICABLE, SIZE IS SHOWN IN INCHES BELOW PARTITION TYPE

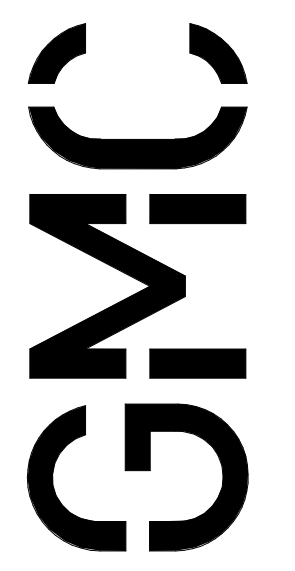
2019 WPCF REHABILITATION
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PARTITION TYPES - INTERIOR
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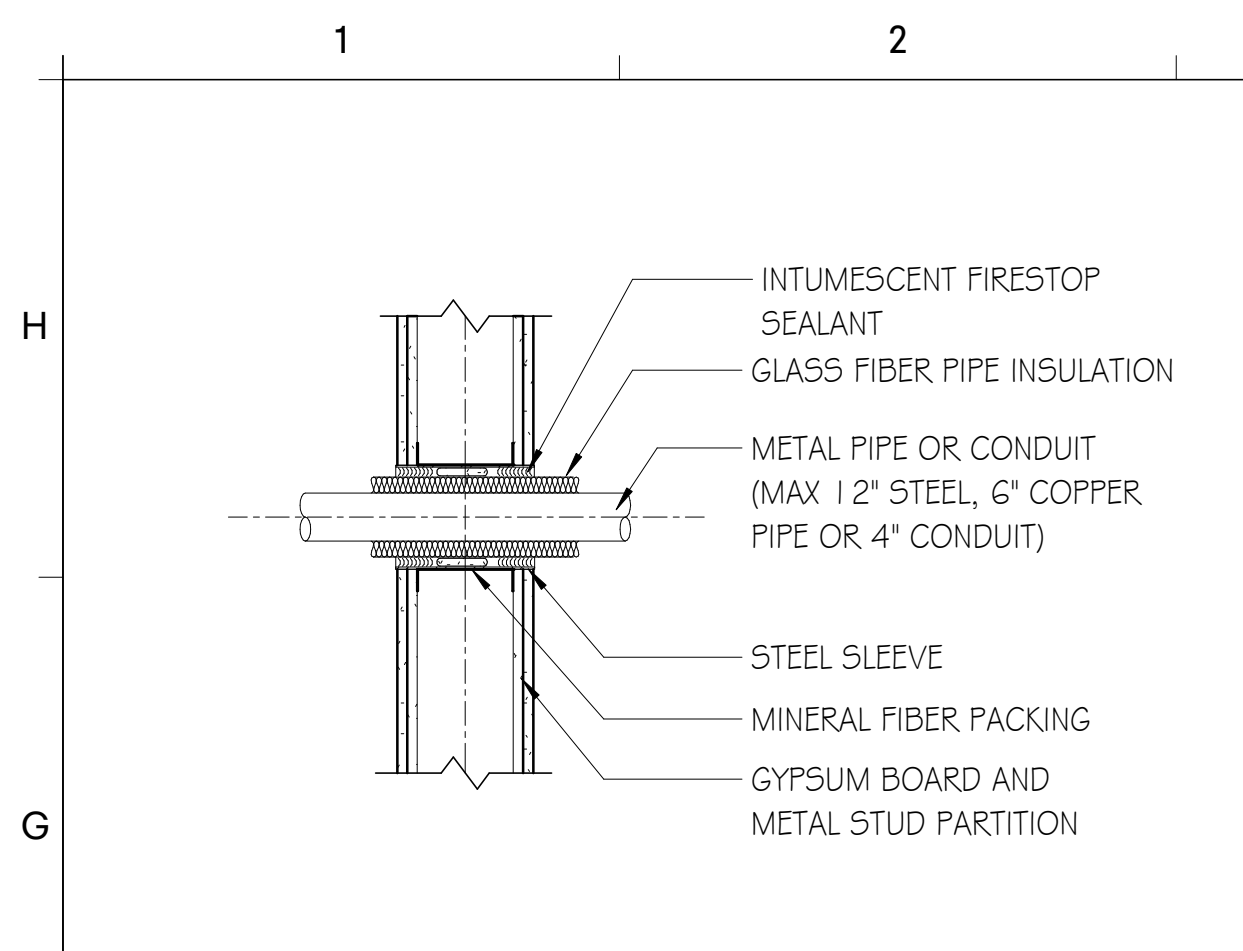
ISSUE DATE	DESCRIPTION
09.09.2019	30% SUBMITTAL
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03.12.2020	100% SUBMITTAL
06.15.2020	CONSTRUCTION SUBMITTAL

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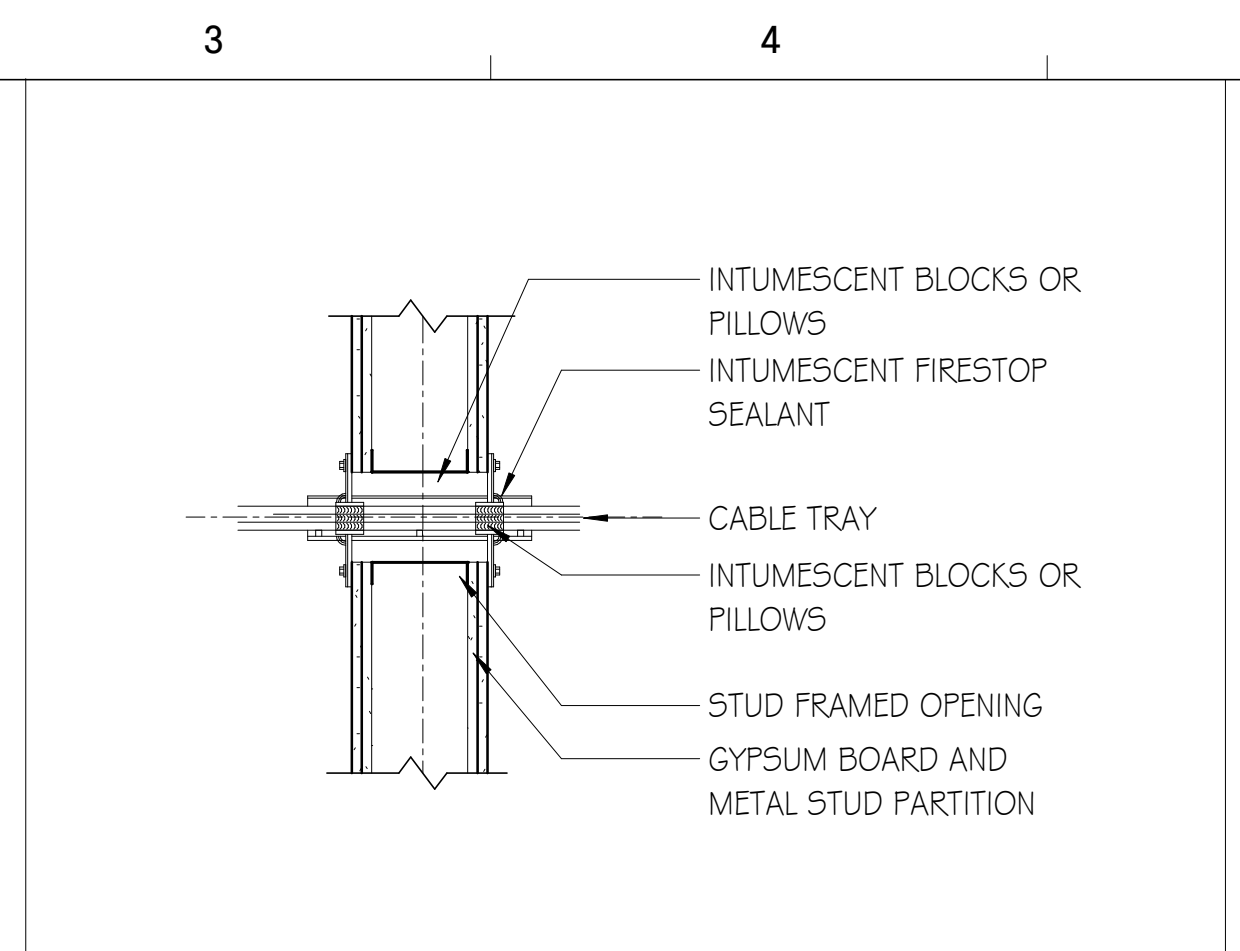
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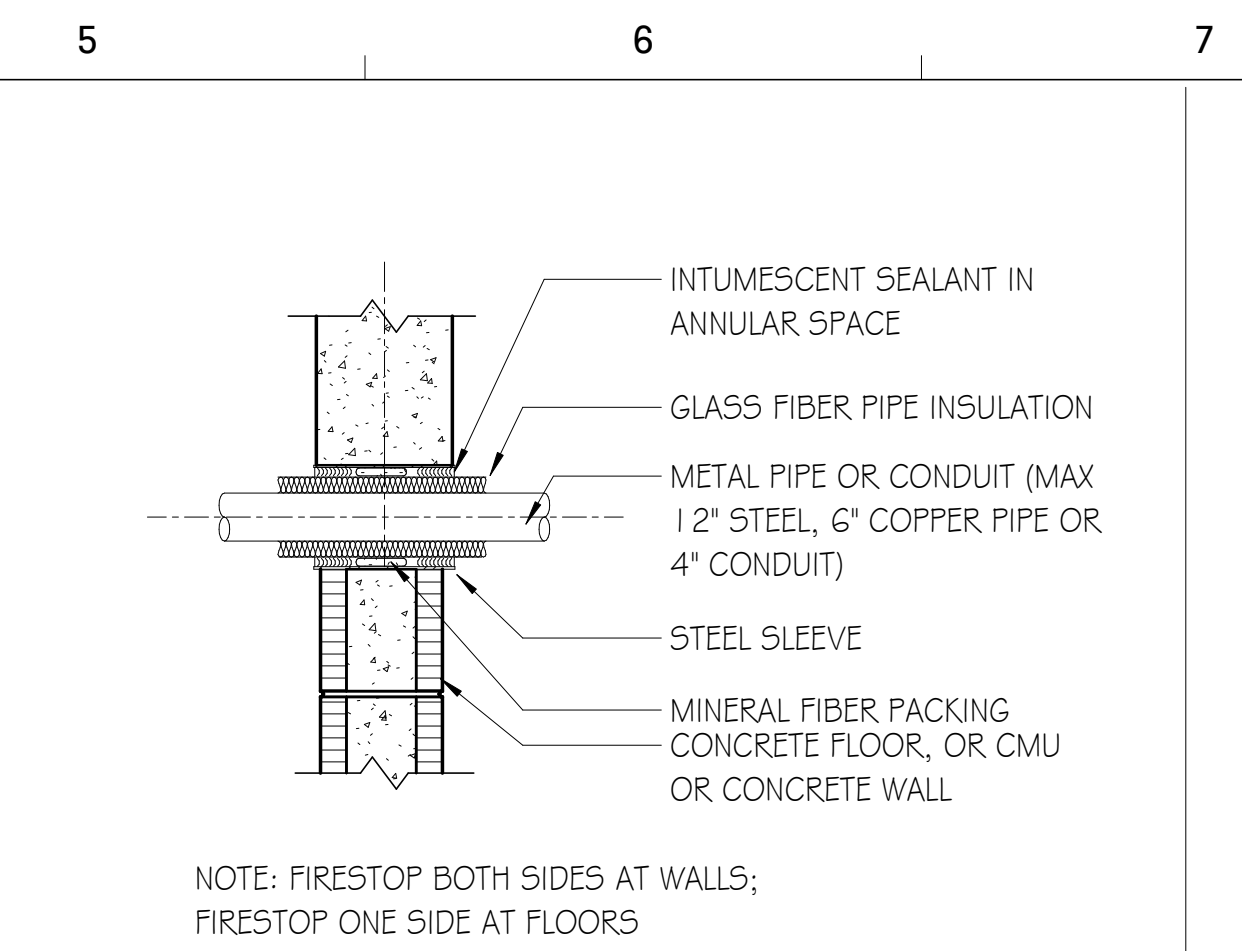
INSULATED METAL PIPE THRU GYPSUM PARTITION

A	W-L-5040
B	W-L-5029
C	W-L-5014



CABLE TRAY THRU GYPSUM PARTITION

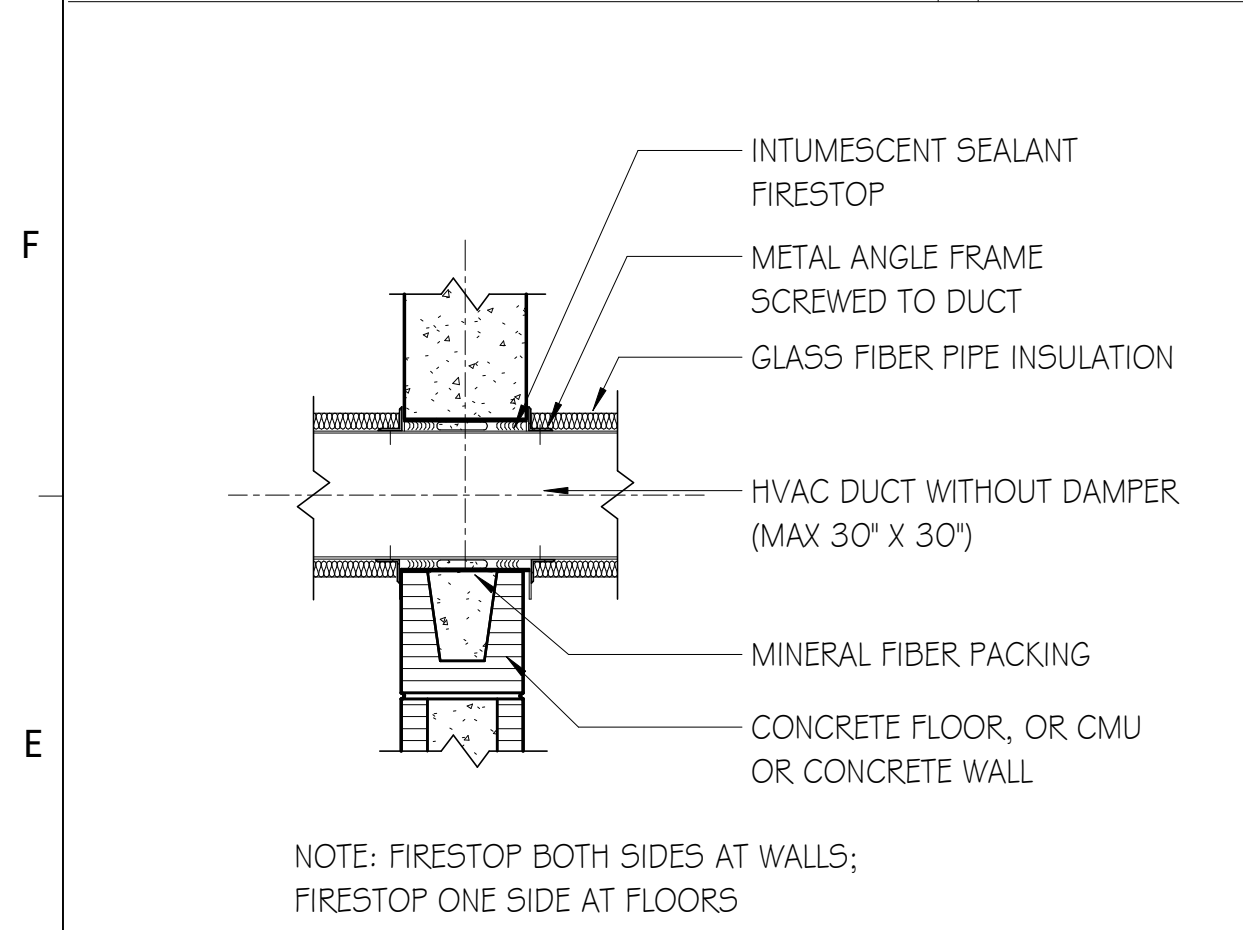
A	W-L-4037
B	W-L-4011
C	W-L-4008



INSULATED METAL PIPE THRU CMU / CONC WALL OR FLOOR

A	C-AJ-5024
B	C-AJ-5096
C	C-AJ-5087

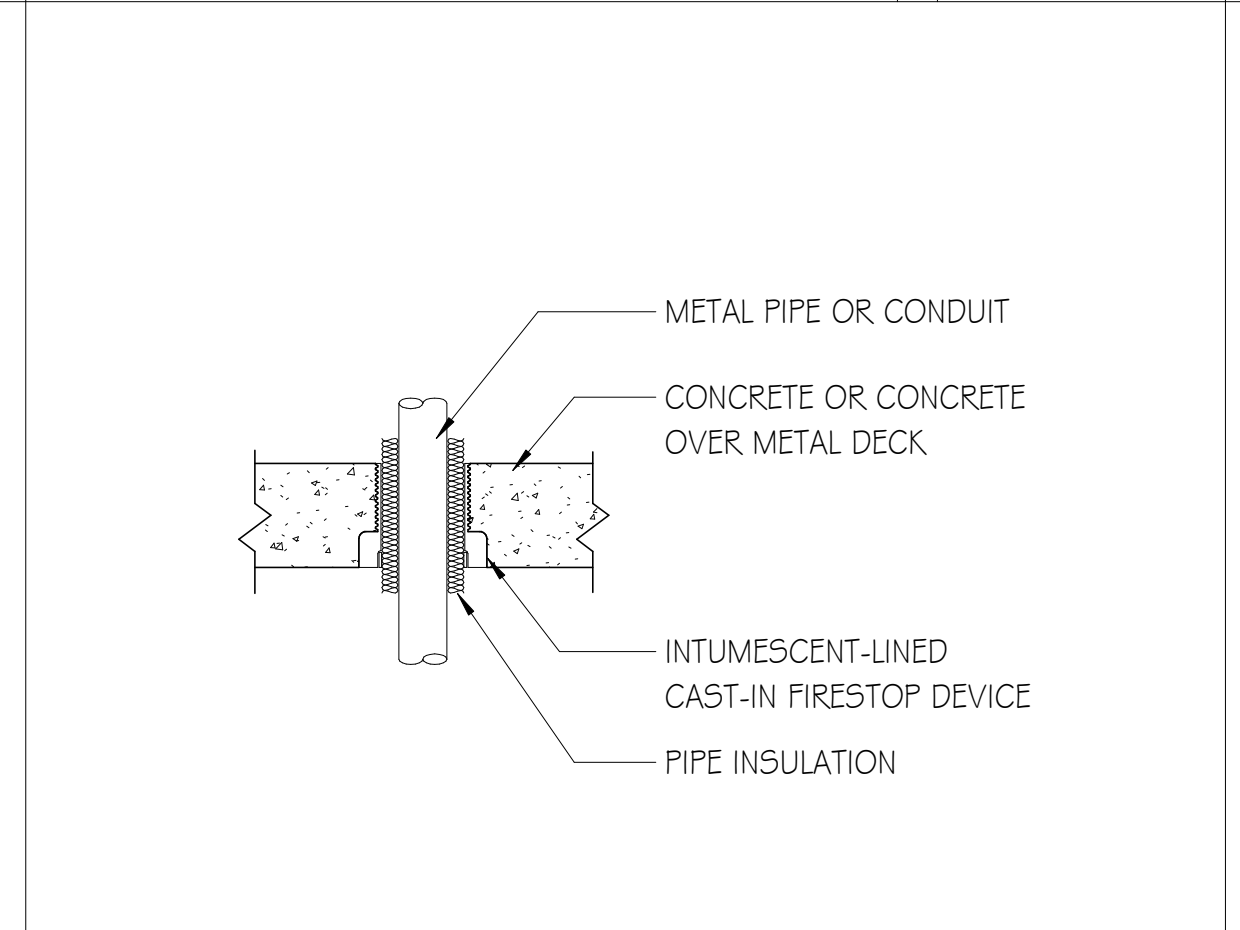
NOTE: FIRESTOP BOTH SIDES AT WALLS;
FIRESTOP ONE SIDE AT FLOORS



INSULATED HVAC DUCT THRU CMU / CONC WALL OR FLOOR

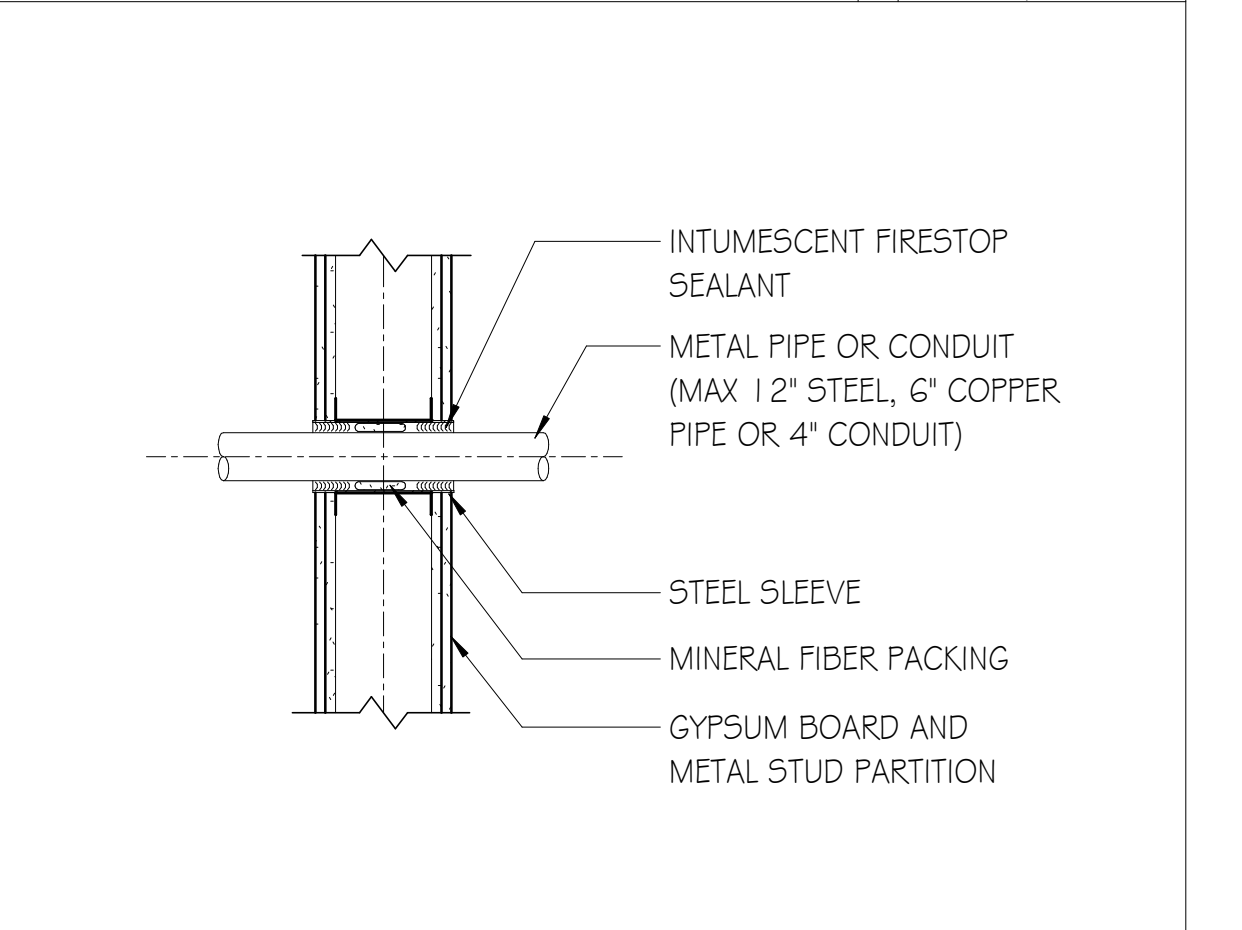
A	C-AJ-7115
B	WL-7059
C	C-AJ-7143

NOTE: FIRESTOP BOTH SIDES AT WALLS;
FIRESTOP ONE SIDE AT FLOORS



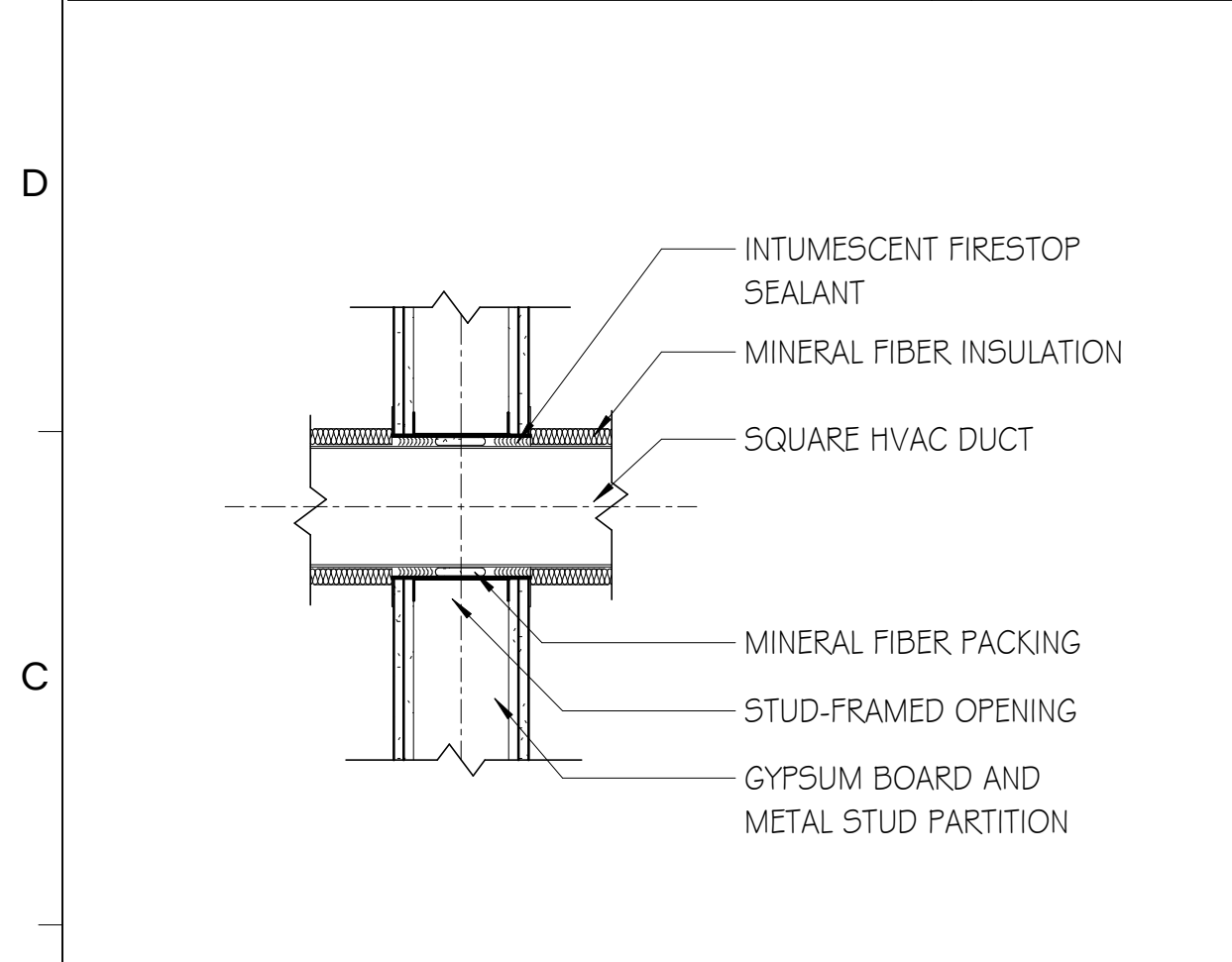
INSULATED METAL PIPE THRU CONC. OR CONC ON METAL DECK

A	F-A-5029
B	F-A-5015
C	F-A-5041



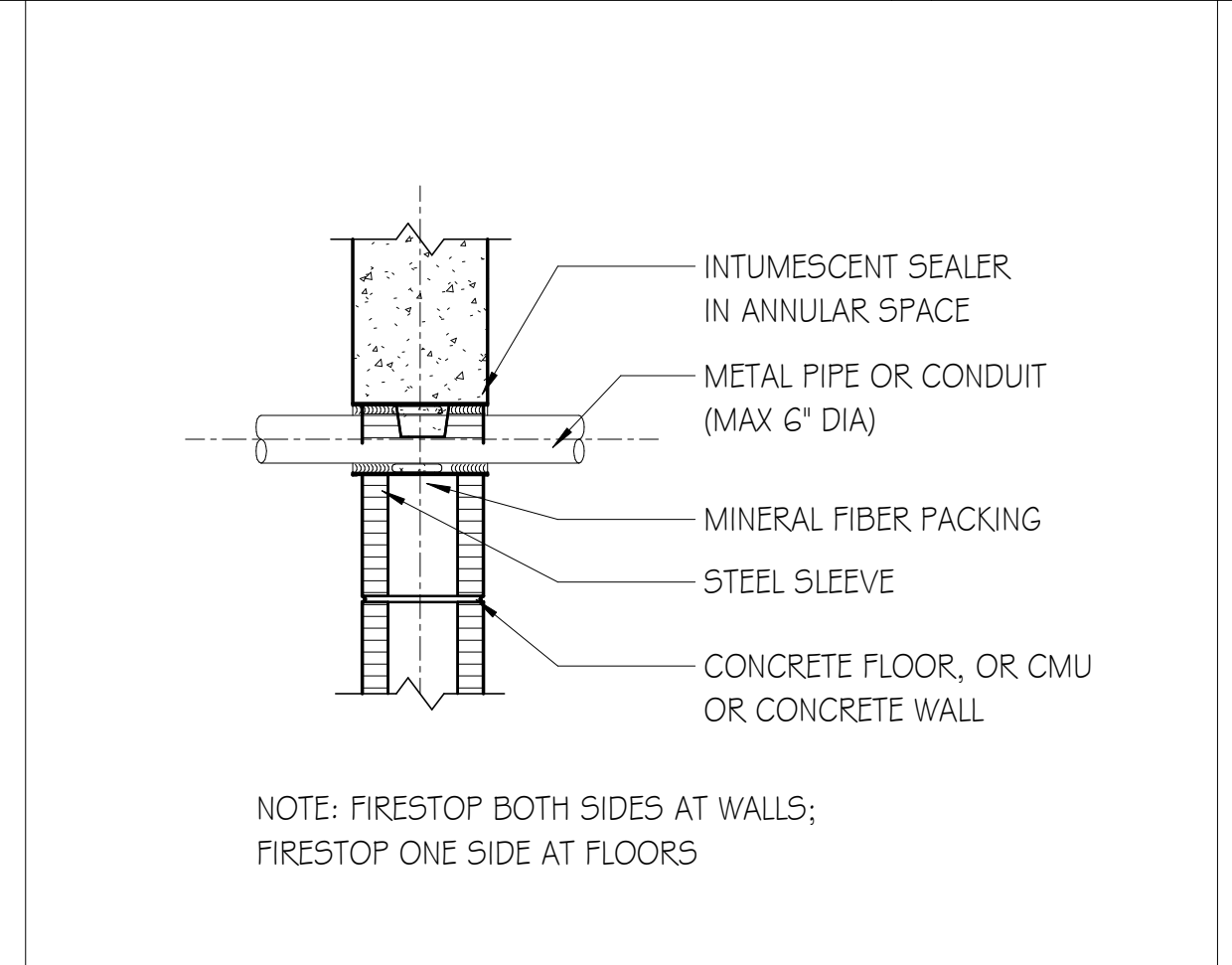
SINGLE UNINSULATED METAL PIPE THRU GYPSUM BOARD PARTITION

A	W-L-1001
B	W-L-1054
C	W-L-1088



INSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

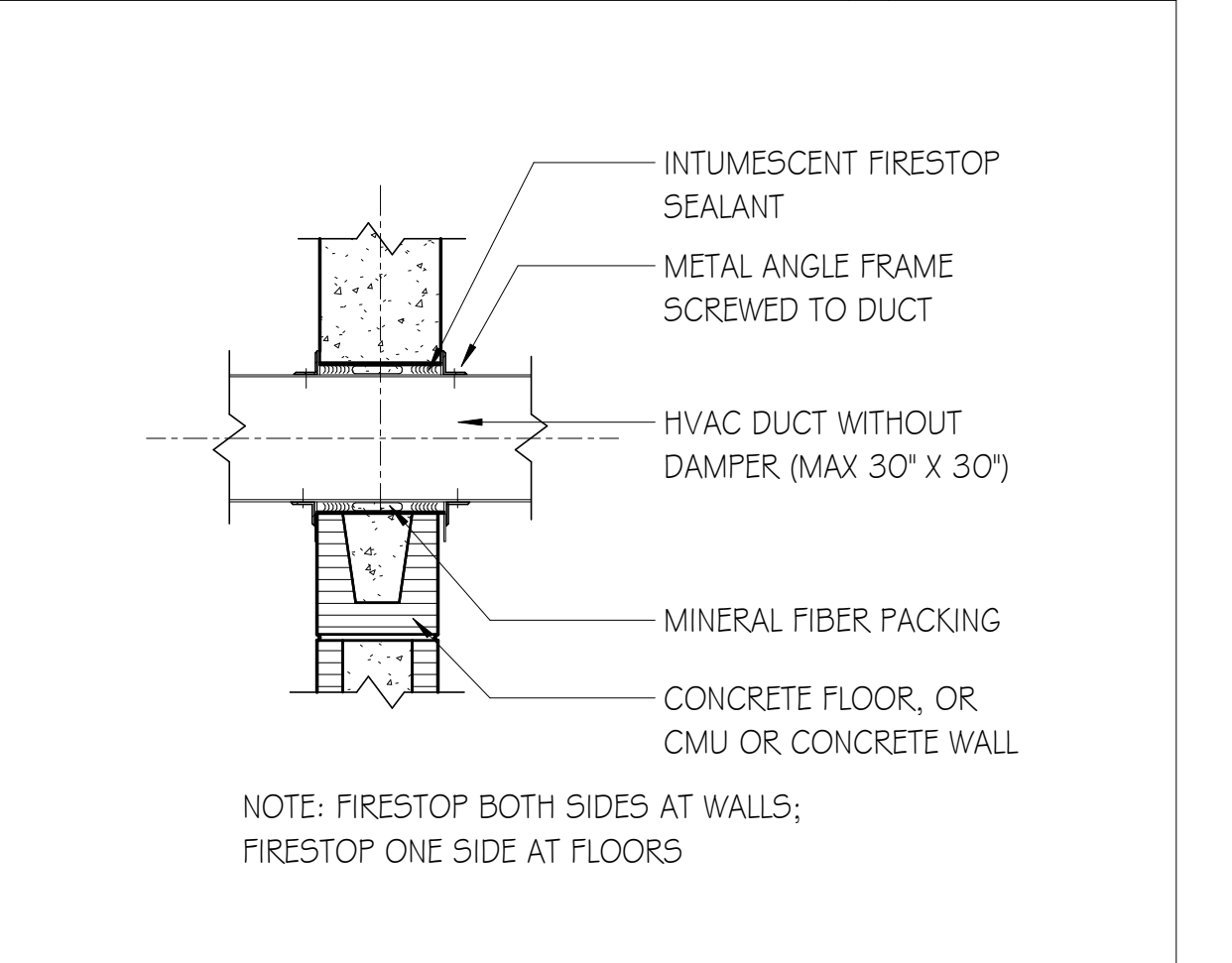
A	W-L-7195
B	W-L-7059
C	W-L-7178



SINGLE UNINSULATED METAL PIPE THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-1044
B	C-AJ-1226
C	C-AJ-1080

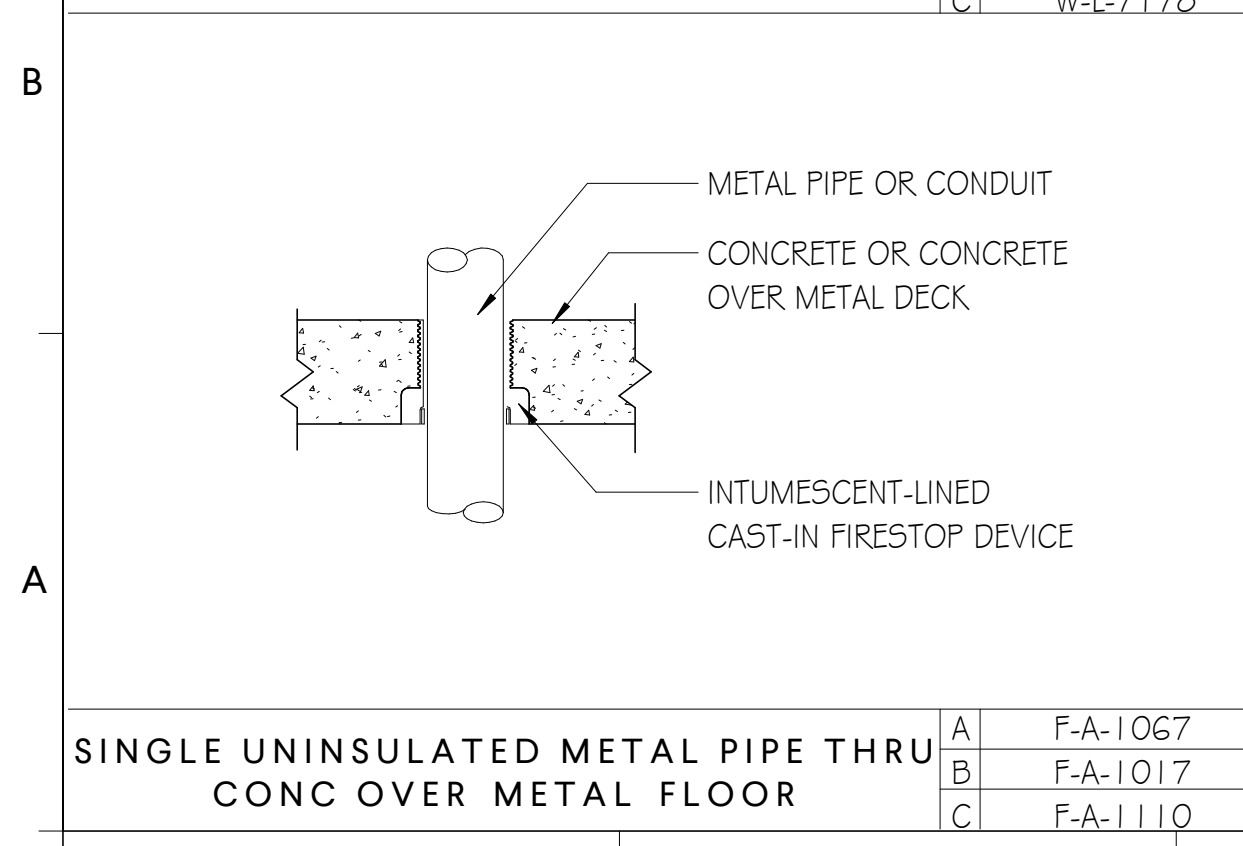
NOTE: FIRESTOP BOTH SIDES AT WALLS;
FIRESTOP ONE SIDE AT FLOORS



UNINSULATED HVAC DUCT THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-7016
B	WL-7109
C	C-AJ-7027

NOTE: FIRESTOP BOTH SIDES AT WALLS;
FIRESTOP ONE SIDE AT FLOORS



SINGLE UNINSULATED METAL PIPE THRU CONC OVER METAL FLOOR

A	F-A-1067
B	F-A-1017
C	F-A-1110

PRODUCT / MANUFACTURER LEGEND

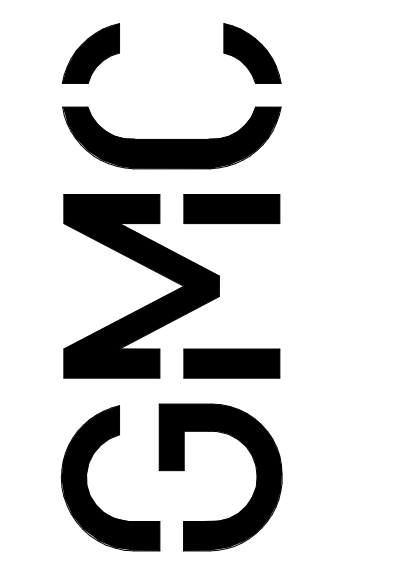
KEY TO MANUFACTURERS

A	3M
B	HILTI
C	STI

- THE ILLUSTRATIONS ON THIS DRAWING REPRESENT FREQUENTLY ENCOUNTERED FIRESTOPPING PENETRATION CONDITIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES.
- THE NUMBERS SHOWN BELOW ARE MANUFACTURERS' UL-TEST NUMBERS FOR EACH CONDITION.
- THE KEY TO MANUFACTURERS (A, B, OR C) IS AS INDICATED BELOW.

GENERAL THRU - PENETRATION NOTES


- GENERAL**
 - ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 078413 - PENETRATION FIRESTOP SYSTEMS.
 - THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED THROUGH-PENETRATION FIRESTOP CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.
 - SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE PENETRATING ITEM AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.
 - WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (EJ), OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EFRRA), PREPARED BY THE FIRESTOP MANUFACTURER.
- APPLICABILITY**
 - PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL PENETRATIONS (INCLUDING SINGLE-SIDED MEMBRANE PENETRATIONS) OF FIRE RESISTANCE RATED CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS (APPLICABLE TO BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS).
 - ALL PIPING AND DUCTWORK SUBJECT TO MOVEMENT SHALL BE FIRESTOPPED WITH FLEXIBLE FIRE RATED SEALANT.
 - TO EXTENT THAT APPROPRIATE UL DESIGNS ARE AVAILABLE FOR SUBSTRATE REQUIRED, USE THE FOLLOWING APPROACH TO SELECTION OF SYSTEMS:
 - FOR SIMPLE PENETRATIONS: ONE-PART FIRESTOP SEALANT
 - FOR COMPLEX PENETRATIONS: FOAMED-IN-PLACE FIRESTOP SEALANT
 - FOR INSULATED METAL PIPE: INTUMESCENT WRAP STRIP AND ONE-PART FIRESTOP SEALANT.
 - FOR DUCTS OR VENTS:
 - FOR CABLE TRAYS OR RACEWAYS:
- SLEEVEING**
 - THE FOLLOWING PENETRATIONS MUST BE SLEEVED:
 - SINGLE ROUND PENETRATIONS IN RATED CMU WALLS
 - INSULATED PIPE PENETRATIONS IN RATED GYPSUM BOARD WALLS
 - BUNDLED CABLE PENETRATIONS IN RATED GYPSUM BOARD WALLS
 - ALL PENETRATIONS IN ELEVATED CONCRETE SLABS.
 - ALL SLEEVES SHALL BE METAL. PLASTIC IS NOT PERMITTED. THE JUNCTURE OF STEEL SLEEVES AND WALL SHALL BE SEALED WITH FLEXIBLE FIRE RATED SEALANT.
- QUALITY ASSURANCE**
 - COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 078413 - THROUGH-PENETRATION FIRESTOP SYSTEMS.
 - OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
 - COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.
- INSTALLATION - GENERAL**
 - COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.
 - INSTALL FORMING / DAMMING / BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
 - INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
 - FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED.
 - APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS.
 - FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
 - REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES, THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.
 - IDENTIFY THROUGH PENETRATION FIRESTOP SYSTEMS WITH PERMANENTLY ATTACHED, PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED.
 - INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT



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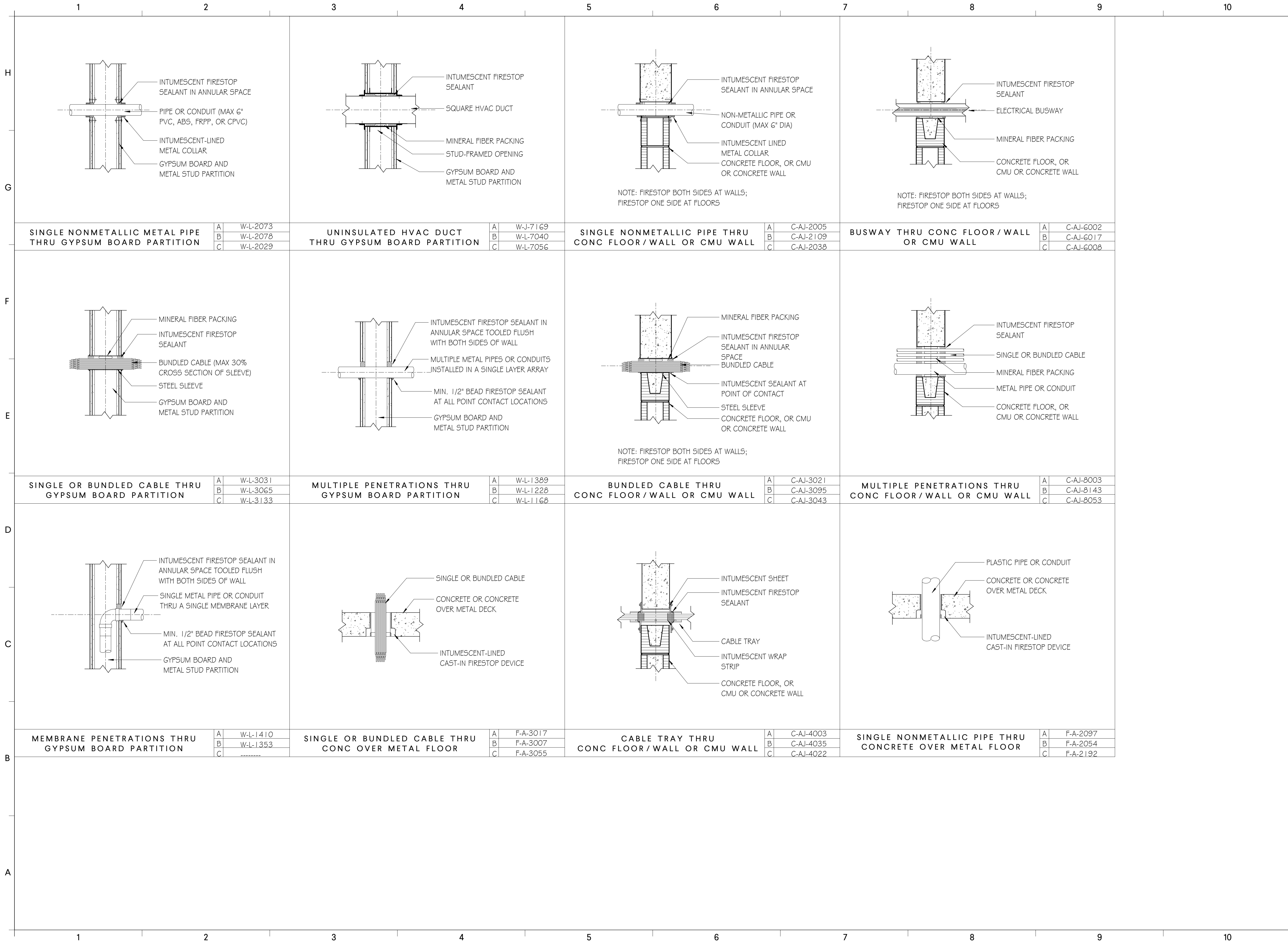
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

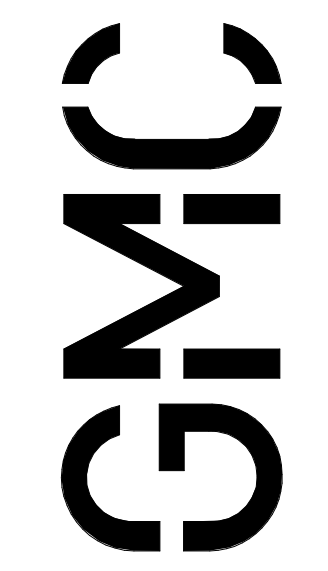
PROJECT MANAGER: ICV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD



FIRESTOPPING - THRU-PENETRATION SYSTEMS
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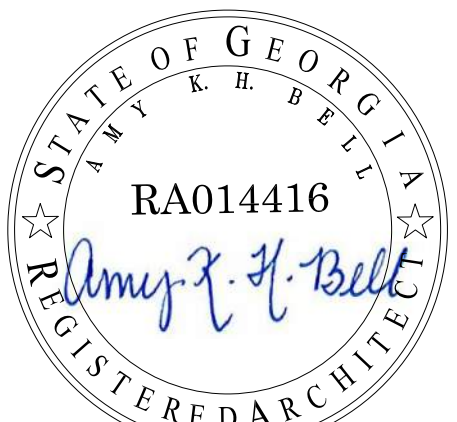


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 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD



FIRESTOPPING - THRU-PENETRATION SYSTEMS
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H
G
F
E
D
C
B
A

OVERALL BUILDING AREA				MEANS OF EGRESS																																																																													
LEVEL	AREA (GROSS SQUARE FEET)			MAXIMUM ALLOWABLE	B																																																																												
BASEMENT	2,548 SF			TRAVEL DISTANCE TO EXIT	200 FT																																																																												
I	13,751 SF			COMMON PATH OF TRAVEL	75 FT																																																																												
II	9,540 SF			DEAD END LENGTH	20 FT																																																																												
TOTAL	25,839 SF			EGRESS OCCUPANTS (DESIGN LOAD)	LEVEL I : CALCULATION VALUES OCC TYPE : BUSINESS 123 OCC TYPE : STORAGE 25 OCCUPANCY COUNT BASEMENT TOTAL OCCUPANTS = 9 OCCUPANTS LEVEL I TOTAL OCCUPANTS = 75 OCCUPANTS LEVEL II TOTAL OCCUPANTS = 64 OCCUPANTS AGGREGATE OCCUPANT LOAD = 148 OCCUPANTS																																																																												
APPLICABLE CODES & REGULATIONS				PLUMBING FIXTURE TABULATIONS																																																																													
2018	INTERNATIONAL BUILDING CODE (IBC) W/ GEORGIA AMENDMENTS			STAIRWAY WIDTH	REQUIRED: 0.3" PER OCCUPANT X 64 OCCUPANTS = 20"		PROVIDED: 152"																																																																										
2012	LIFE SAFETY CODE (NFPA) W/ GEORGIA AMENDMENTS				EGRESS WIDTH																																																																												
2018	INTERNATIONAL FUEL GAS CODE (IFGC) W/ GEORGIA AMENDMENTS			REQUIRED: 0.2" PER OCCUPANT X 148 OCCUPANTS = 30"		PROVIDED: 102"																																																																											
2018	INTERNATIONAL MECHANICAL CODE (IMC) W/ GEORGIA AMENDMENTS			PLUMBING FIXTURE TABULATIONS																																																																													
2018	INTERNATIONAL PLUMBING CODE (IPC) W/ GEORGIA AMENDMENTS			<table border="1"> <thead> <tr> <th rowspan="2">OCCUPANCY</th> <th rowspan="2">OCCUPANT LOAD (ACTUAL)</th> <th colspan="9">ACTUAL LOAD CALCULATIONS</th> </tr> <tr> <th colspan="3">WC</th> <th colspan="3">LAV</th> <th>BATH/SHOWER</th> <th>DRINKING FOUNTAIN</th> <th>SVC SINKS</th> </tr> <tr> <th>M</th> <th>F</th> <th>USX</th> <th>M</th> <th>F</th> <th>USX</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>B (BUSINESS)</td> <td>123 OCC 1/25 TO 50, 1/50 ABOVE</td> <td>3</td> <td>3</td> <td>-</td> <td>2</td> <td>2</td> <td>-</td> <td>-</td> <td>2</td> <td>1</td> </tr> <tr> <td>S (STORAGE)</td> <td>25 OCC 1/40</td> <td>1</td> <td>1</td> <td>-</td> <td>1</td> <td>1</td> <td>-</td> <td>-</td> <td>1</td> <td>1</td> </tr> <tr> <td>TOTAL REQUIRED</td> <td></td> <td>4</td> <td>4</td> <td>-</td> <td>3</td> <td>3</td> <td>-</td> <td>-</td> <td>3</td> <td>1</td> </tr> <tr> <td>TOTAL PROVIDED</td> <td></td> <td>8</td> <td>5</td> <td>-</td> <td>6</td> <td>4</td> <td>-</td> <td>-</td> <td>3</td> <td>1</td> </tr> </tbody> </table>				OCCUPANCY	OCCUPANT LOAD (ACTUAL)	ACTUAL LOAD CALCULATIONS									WC			LAV			BATH/SHOWER	DRINKING FOUNTAIN	SVC SINKS	M	F	USX	M	F	USX					B (BUSINESS)	123 OCC 1/25 TO 50, 1/50 ABOVE	3	3	-	2	2	-	-	2	1	S (STORAGE)	25 OCC 1/40	1	1	-	1	1	-	-	1	1	TOTAL REQUIRED		4	4	-	3	3	-	-	3	1	TOTAL PROVIDED		8	5	-	6	4	-	-	3	1
OCCUPANCY	OCCUPANT LOAD (ACTUAL)	ACTUAL LOAD CALCULATIONS																																																																															
		WC			LAV			BATH/SHOWER	DRINKING FOUNTAIN	SVC SINKS																																																																							
M	F	USX	M	F	USX																																																																												
B (BUSINESS)	123 OCC 1/25 TO 50, 1/50 ABOVE	3	3	-	2	2	-	-	2	1																																																																							
S (STORAGE)	25 OCC 1/40	1	1	-	1	1	-	-	1	1																																																																							
TOTAL REQUIRED		4	4	-	3	3	-	-	3	1																																																																							
TOTAL PROVIDED		8	5	-	6	4	-	-	3	1																																																																							
2017	NATIONAL ELECTRICAL CODE (NEC)																																																																																
2015	INTERNATIONAL ENERGY CONSERVATION CODE (IECC) W/ GEORGIA AMENDMENTS																																																																																
2013	ANSI/ASHRAE/IESNA STANDARD 90.1																																																																																
2010	STANDARDS FOR ACCESSIBLE DESIGN																																																																																
OCCUPANCY CLASSIFICATION				IBC CH 3																																																																													
OCCUPANCY		PRIMARY : BUSINESS (B) - 18,342 SF SECONDARY : STORAGE (S-2) - 7,497 SF																																																																															
SPECIAL REQUIREMENTS				IBC CH 4																																																																													
N/A																																																																																	
CONSTRUCTION CLASSIFICATION				IBC CH 5																																																																													
CONSTRUCTION TYPE		TYPE IIB																																																																															
HEIGHT	ALLOWABLE: 55 FEET	ACTUAL: 32 FEET																																																																															
# OF STORIES	ALLOWABLE: 3	ACTUAL: 3																																																																															
HEIGHT MODIFICATIONS	N/A																																																																																
AREA PER FLOOR	ALLOWABLE: 23,000 SF/STORY	ACTUAL: BASEMENT - 2,548 SF LEVEL I - 13,751 SF LEVEL II - 9,540 SF TOTAL - 25,839 SF																																																																															
AREA MODIFICATIONS : PER IBC CH 5, BUILDING AREAS LIMITED BY TABLE 503 SHALL BE PERMITTED TO BE INCREASED DUE TO FRONTAGE AND AUTOMATIC SPRINKLER SYSTEM PROTECTION																																																																																	
FRONTAGE INCREASE (IF)	NOT REQUIRED																																																																																
AUTOMATIC SPRINKLER INCREASE (AA)	NOT REQUIRED																																																																																
FIRE RESISTANCE - STRUCT. ELEMENTS				IBC CH 6																																																																													
RESISTANCE REQUIRED BY IBC TYPE TABLE 601																																																																																	
CONSTRUCTION TYPE : IIB																																																																																	
	RESISTANCE REQUIRED	RESISTANCE PROVIDED																																																																															
		RATING	ACHIEVED BY																																																																														
BUILDING ELEMENT - STRUCTURAL																																																																																	
PRIMARY STRUCTURAL FRAME (PER CH 2 WITH RATING NOT LESS THAN CH 7)																																																																																	
COLUMNS																																																																																	
STRUCTURAL MEMBERS HAVING DIRECT CONNECTION TO COLUMNS - BEAMS, GIRDERS, TRUSSES, AND SPANDRELS	0 HR	0	N/A																																																																														
BEARING WALLS																																																																																	
EXTERIOR WALLS (RATING NOT LESS THAN CH 6 OR CH 7)	0 HR	0	N/A																																																																														
INTERIOR WALLS	0 HR	0	N/A																																																																														
NON BEARING WALLS AND PARTITIONS																																																																																	
EXTERIOR WALLS (BASED ON FIRE SEPARATION DISTANCE PER CH 6)	0 HR	0	N/A																																																																														
NON BEARING WALLS AND PARTITIONS																																																																																	
INTERIOR WALLS (RATING NOT LESS THAN REQUIRED BY SECTIONS OTHER THAN SECTION 6)	0 HR	0	N/A																																																																														
FLOOR CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)																																																																																	
FLOOR CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS	0 HR	0	N/A																																																																														
ROOF CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)																																																																																	
ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS	0 HR	0	N/A																																																																														



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ISSUE DATE

30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: FN/HKD

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY, JOINT WATER
& SEWER COMMISSION

BGWSC Project No. 906
GMC Project # CSAV190007



LIFE SAFETY - CODE STUDY

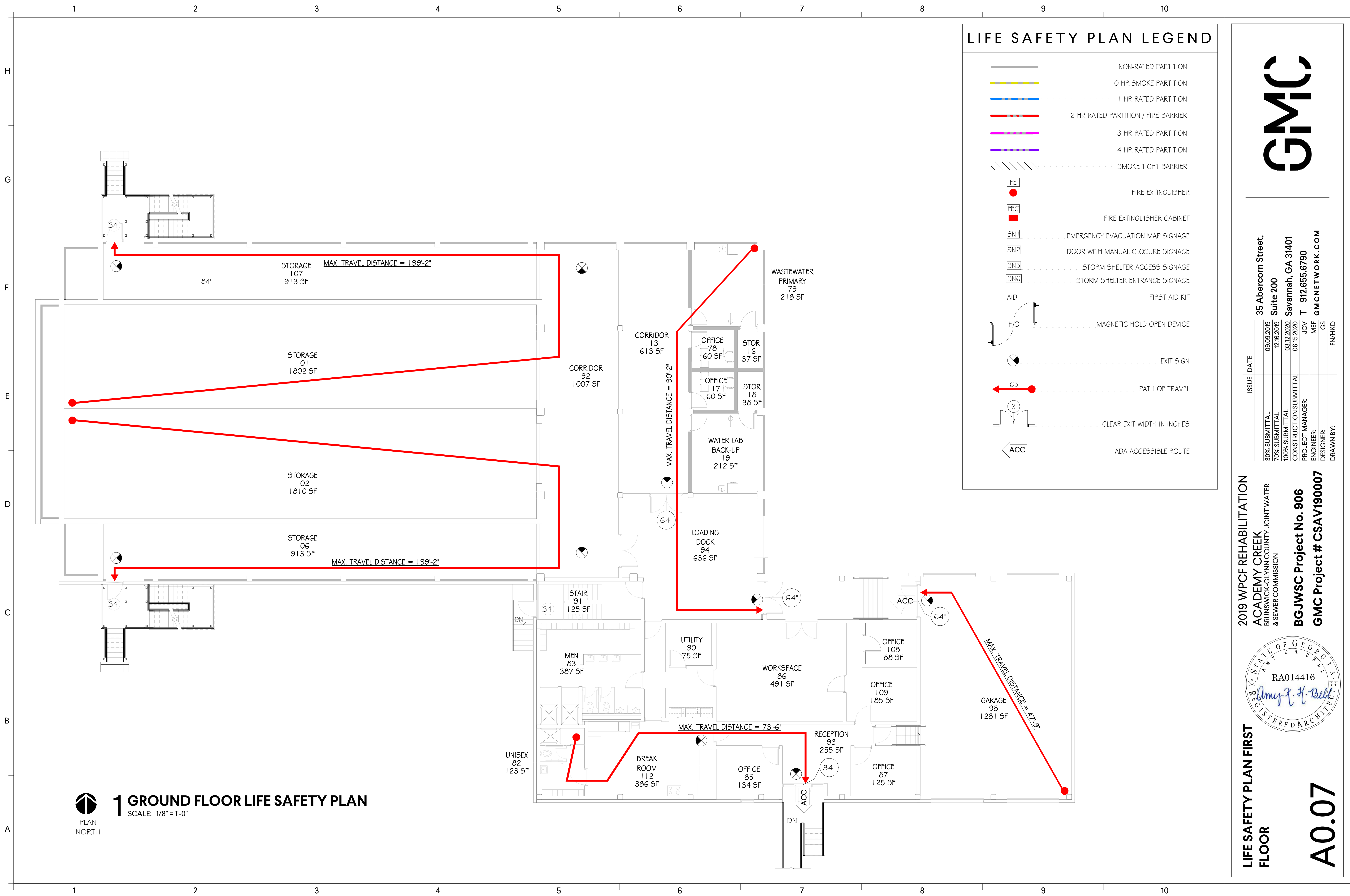
A0.06

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1 GROUND FLOOR LIFE SAFETY PLAN

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



LIFE SAFETY PLAN LEGEND

- NON-RATED PARTITION
- 0 HR SMOKE PARTITION
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION / FIRE BARRIER
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE TIGHT BARRIER
- FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET
- EMERGENCY EVACUATION MAP SIGNAGE
- DOOR WITH MANUAL CLOSURE SIGNAGE
- STORM SHELTER ACCESS SIGNAGE
- STORM SHELTER ENTRANCE SIGNAGE
- FIRST AID KIT
- MAGNETIC HOLD-OPEN DEVICE
- EXIT SIGN
- PATH OF TRAVEL
- CLEAR EXIT WIDTH IN INCHES
- ADA ACCESSIBLE ROUTE

LIFE SAFETY PLAN FIRST FLOOR

A0.07

2019 WPCF REHABILITATION
ACADEMY CREEK
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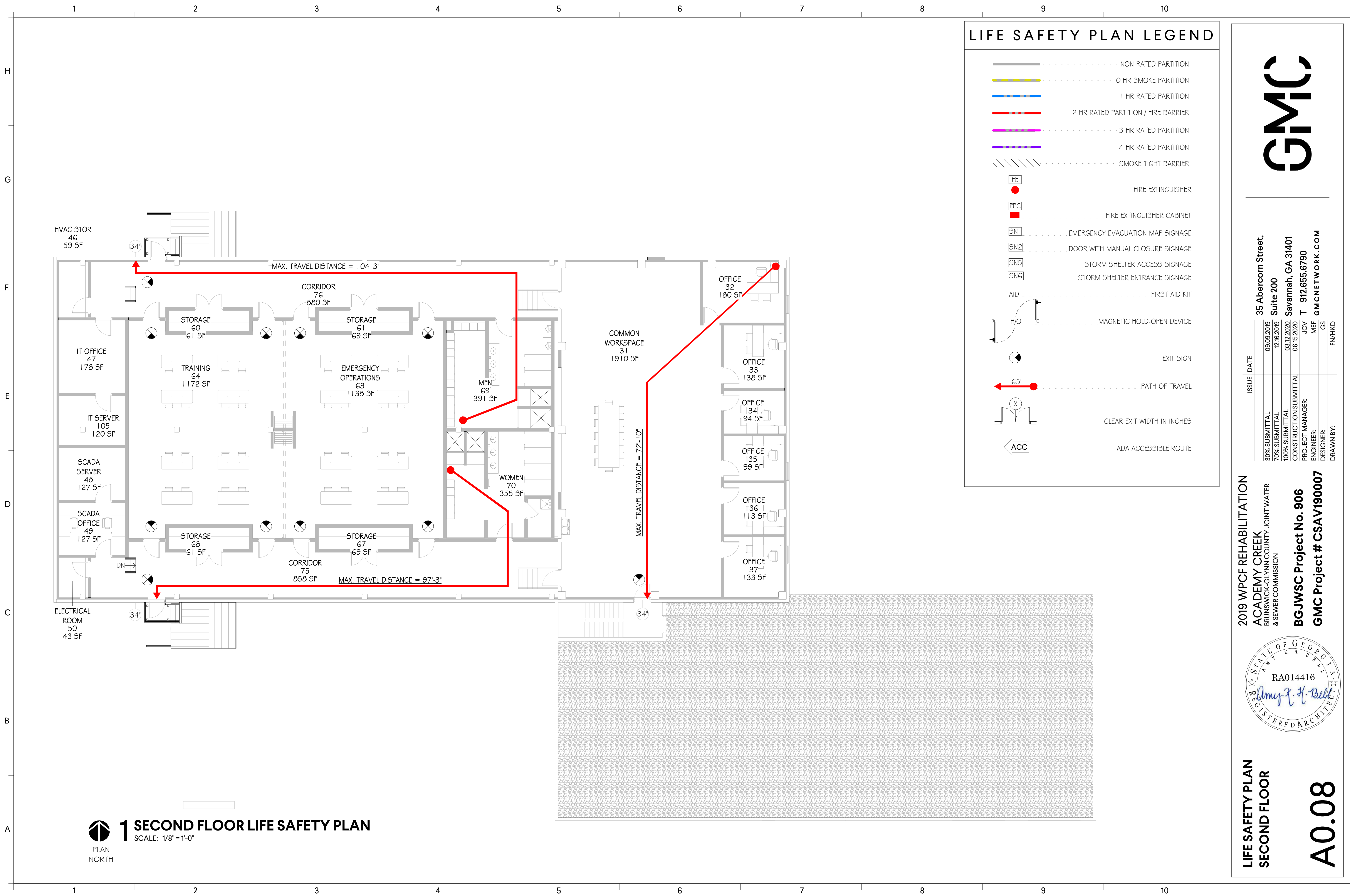
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CONSTRUCTION SUBMITTAL

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD

REGISTERED ARCHITECT
 RA014416
 Amy F. Belt

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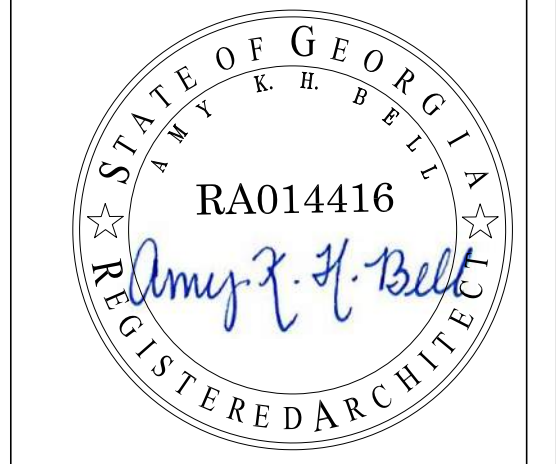
LIFE SAFETY PLAN LEGEND

- NON-RATED PARTITION
- 0 HR SMOKE PARTITION
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION / FIRE BARRIER
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE TIGHT BARRIER
- FE FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- SN1 EMERGENCY EVACUATION MAP SIGNAGE
- SN2 DOOR WITH MANUAL CLOSURE SIGNAGE
- SN5 STORM SHELTER ACCESS SIGNAGE
- SN6 STORM SHELTER ENTRANCE SIGNAGE
- AID FIRST AID KIT
- H/O MAGNETIC HOLD-OPEN DEVICE
- EXIT SIGN
- 65' PATH OF TRAVEL
- X CLEAR EXIT WIDTH IN INCHES
- ACC ADA ACCESSIBLE ROUTE

1 SECOND FLOOR LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
 & SEWER COMMISSION

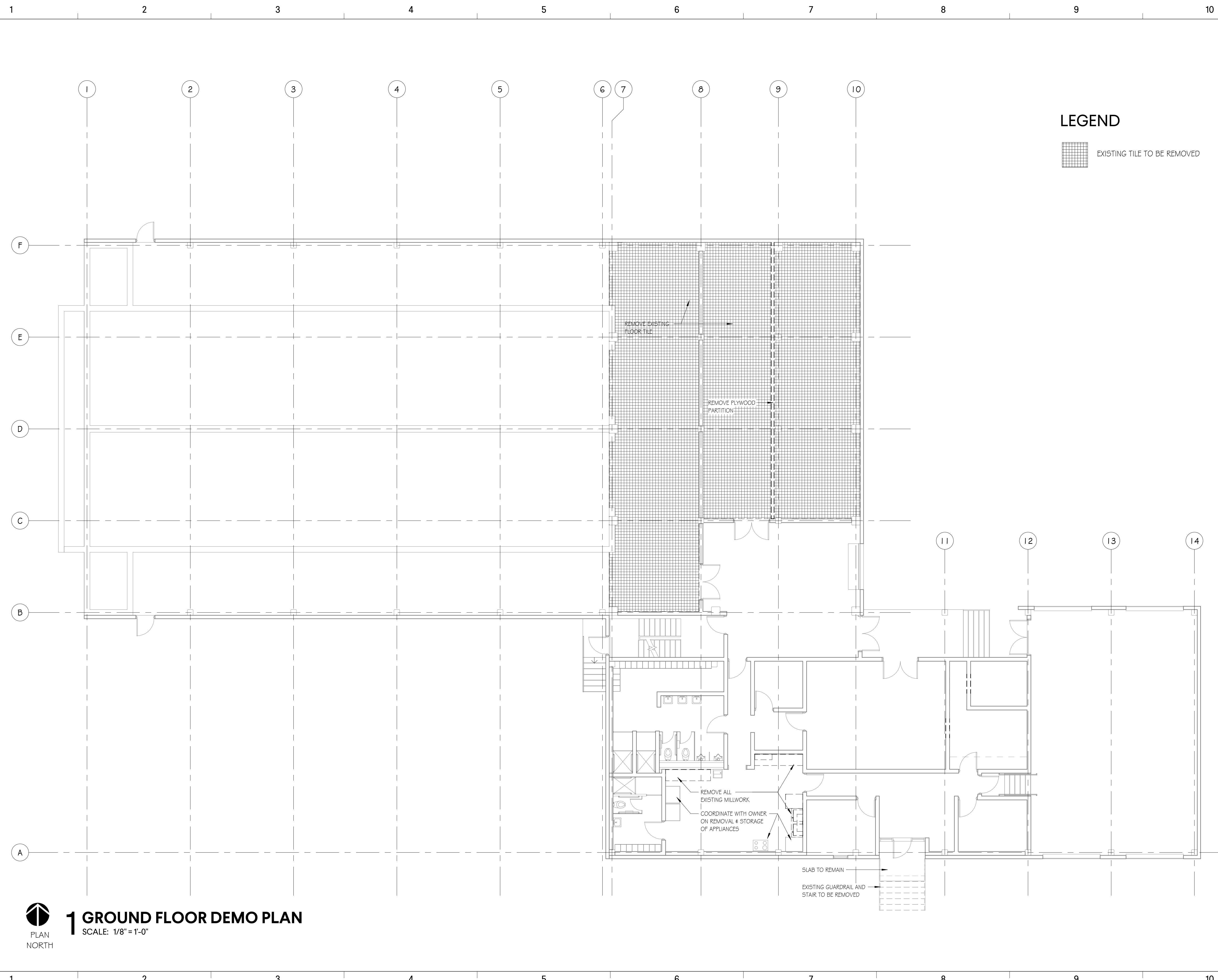
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LIFE SAFETY PLAN
SECOND FLOOR
A0.08

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CONSTRUCTION SUBMITTAL		
PROJECT MANAGER:	JCV	
ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	FN/HKD	

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LEGEND

 EXISTING TILE TO BE REMOVED

1 GROUND FLOOR DEMO PLAN
 SCALE: 1/8"=1'-0"
 PLAN NORTH

2019 WPCF REHABILITATION
 ACADEMY CREEK
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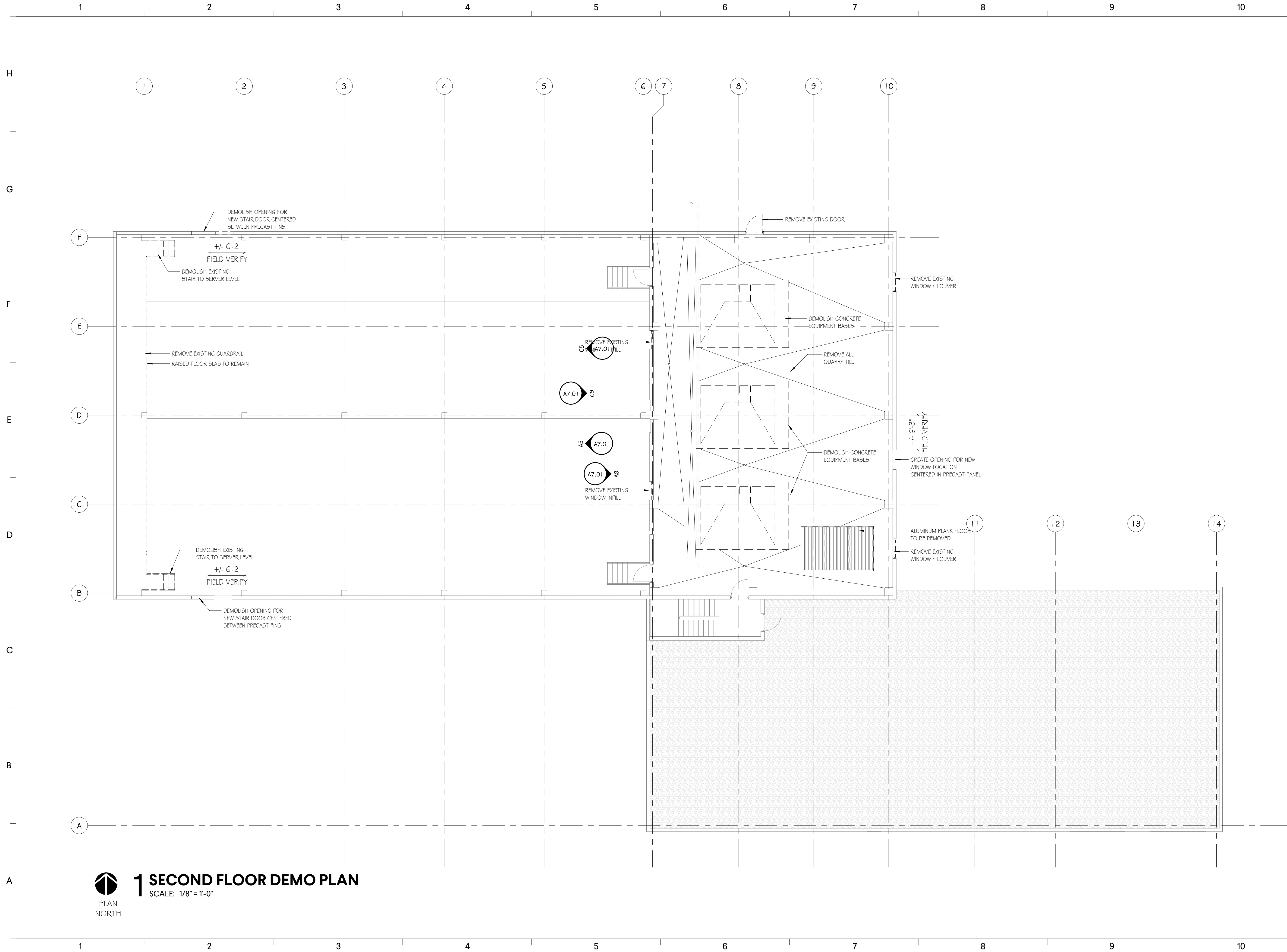
**GROUND FLOOR
 DEMOLITION PLAN**
A1.00A

ISSUE	DATE
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PROJECT MANAGER: JCV
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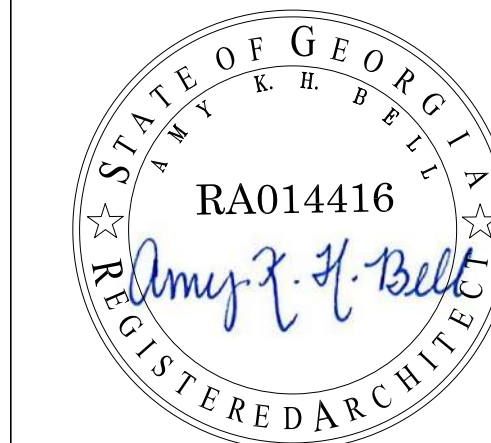
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1 SECOND FLOOR DEMO PLAN
SCALE: 1/8" = 1'-0"

**SECOND FLOOR
DEMOLITION PLAN**

A1.00B

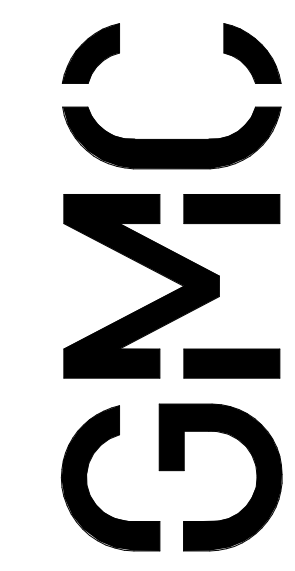


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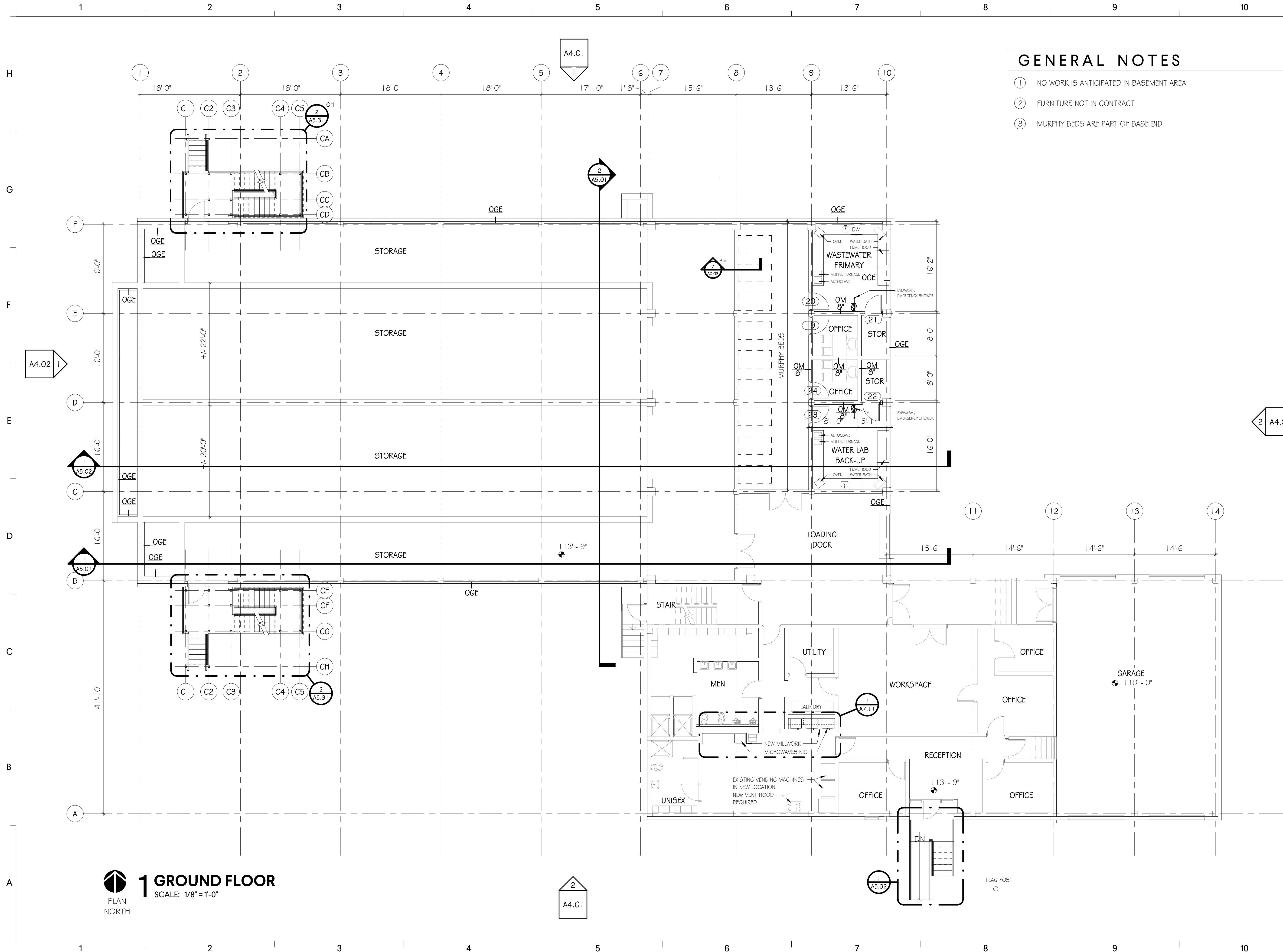
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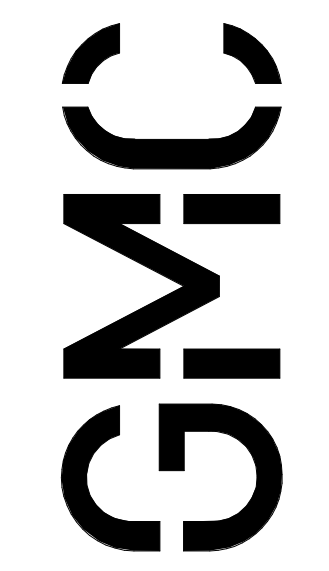


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GENERAL NOTES

- ① NO WORK IS ANTICIPATED IN BASEMENT AREA
- ② FURNITURE NOT IN CONTRACT
- ③ MURPHY BEDS ARE PART OF BASE BID



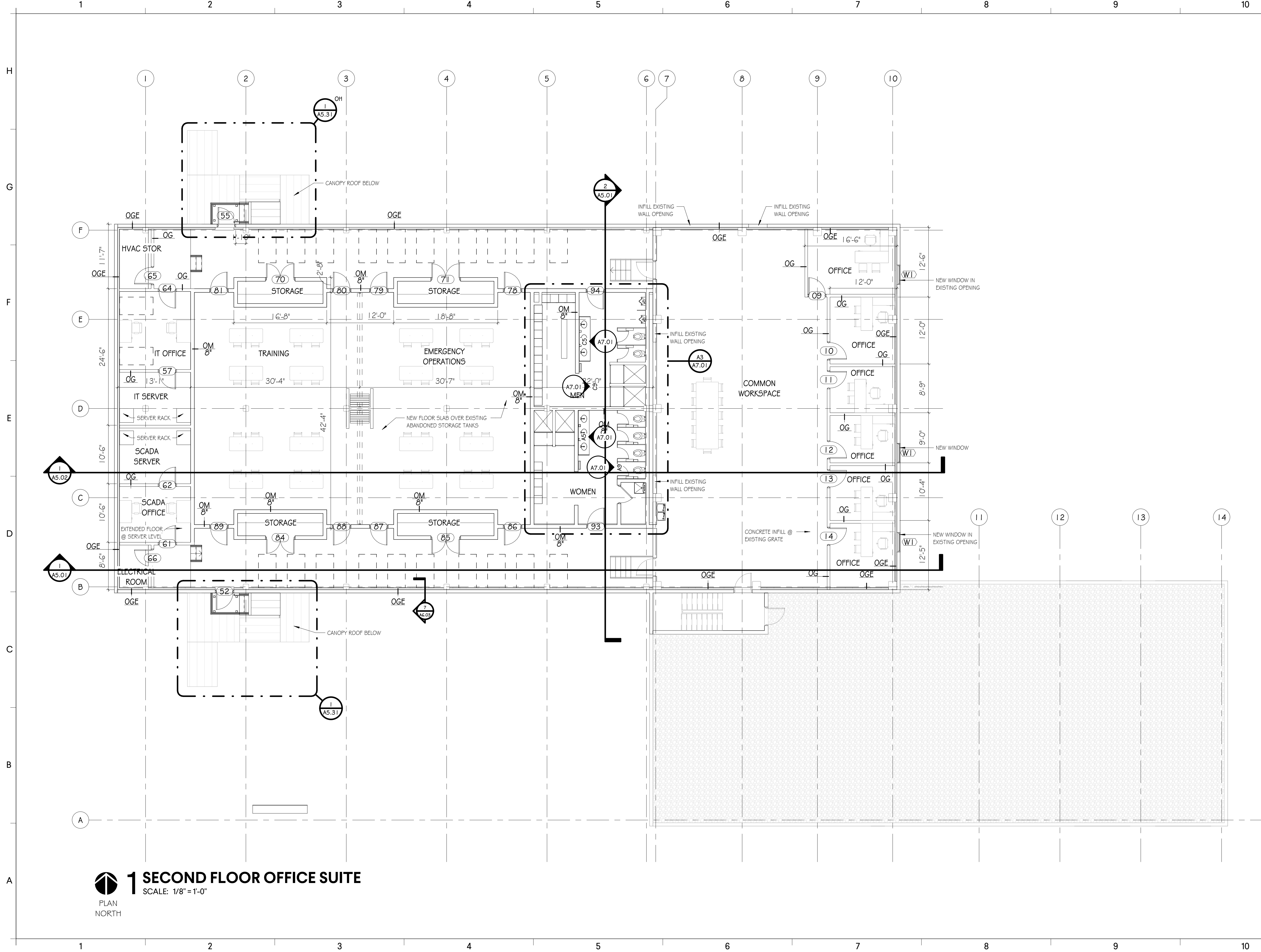
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2019 WPCF REHABILITATION
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GROUND FLOOR PLAN
A1.01

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1 SECOND FLOOR OFFICE SUITE
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

2019 WPCF REHABILITATION

ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
 & SEWER COMMISSION

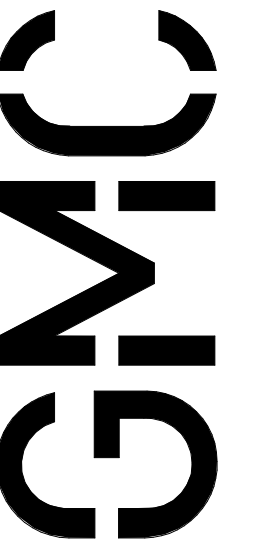
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SECOND FLOOR PLAN

A1.02

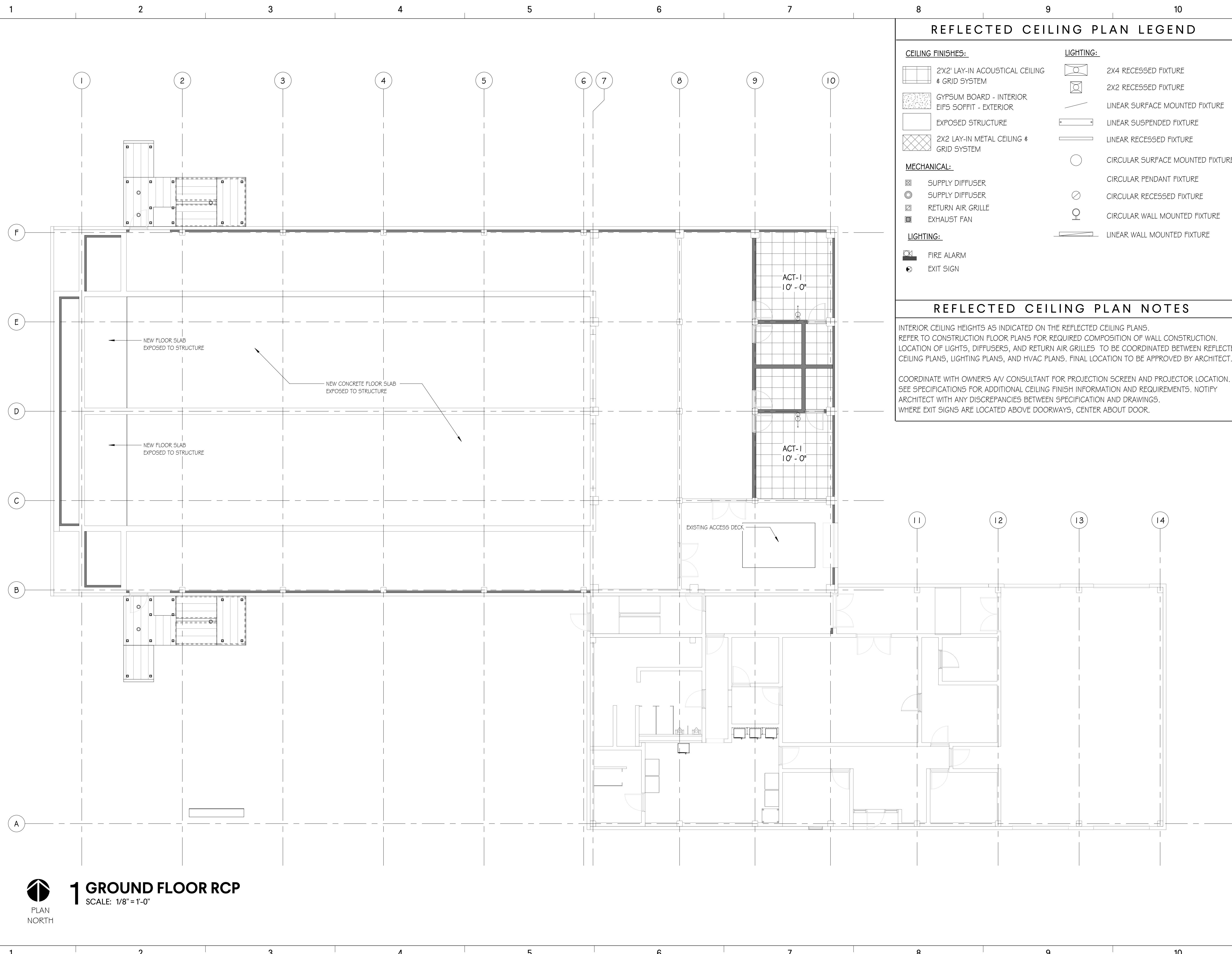


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12.16.2019	70% SUBMITTAL
03.12.2020	100% SUBMITTAL
06.15.2020	CONSTRUCTION SUBMITTAL

PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
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REFLECTED CEILING PLAN LEGEND

- CEILING FINISHES:**
- 2X2' LAY-IN ACOUSTICAL CEILING # GRID SYSTEM
 - GYPSUM BOARD - INTERIOR
EIFS SOFFIT - EXTERIOR
 - EXPOSED STRUCTURE
 - 2X2 LAY-IN METAL CEILING # GRID SYSTEM
- MECHANICAL:**
- SUPPLY DIFFUSER
 - SUPPLY DIFFUSER
 - RETURN AIR GRILLE
 - EXHAUST FAN
- LIGHTING:**
- FIRE ALARM
 - EXIT SIGN
- LIGHTING:**
- 2X4 RECESSED FIXTURE
 - 2X2 RECESSED FIXTURE
 - LINEAR SURFACE MOUNTED FIXTURE
 - LINEAR SUSPENDED FIXTURE
 - LINEAR RECESSED FIXTURE
 - CIRCULAR SURFACE MOUNTED FIXTURE
 - CIRCULAR PENDANT FIXTURE
 - CIRCULAR RECESSED FIXTURE
 - CIRCULAR WALL MOUNTED FIXTURE
 - LINEAR WALL MOUNTED FIXTURE

REFLECTED CEILING PLAN NOTES

INTERIOR CEILING HEIGHTS AS INDICATED ON THE REFLECTED CEILING PLANS. REFER TO CONSTRUCTION FLOOR PLANS FOR REQUIRED COMPOSITION OF WALL CONSTRUCTION. LOCATION OF LIGHTS, DIFFUSERS, AND RETURN AIR GRILLES TO BE COORDINATED BETWEEN REFLECTED CEILING PLANS, LIGHTING PLANS, AND HVAC PLANS. FINAL LOCATION TO BE APPROVED BY ARCHITECT.

COORDINATE WITH OWNER'S AV CONSULTANT FOR PROJECTION SCREEN AND PROJECTOR LOCATION. SEE SPECIFICATIONS FOR ADDITIONAL CEILING FINISH INFORMATION AND REQUIREMENTS. NOTIFY ARCHITECT WITH ANY DISCREPANCIES BETWEEN SPECIFICATION AND DRAWINGS. WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR.

1 GROUND FLOOR RCP
SCALE: 1/8" = 1'-0"
PLAN NORTH



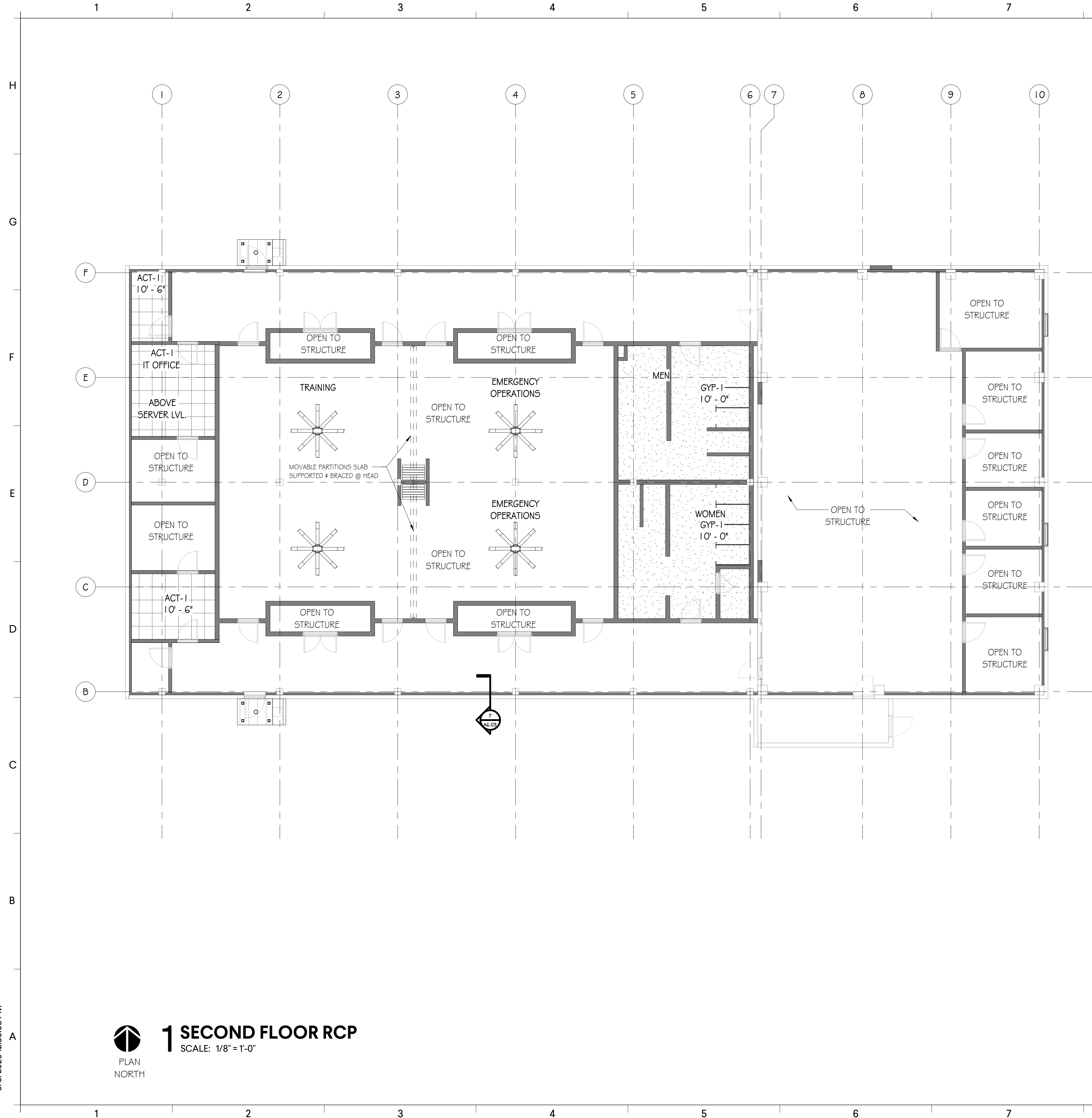
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CONSTRUCTION SUBMITTAL	06.15.2020	GMCNETWORK.COM
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ENGINEER:	MEF	
DESIGNER:	GS	
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2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
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GROUND FLOOR REFLECTED CEILING PLAN
A2.01

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CEILING FINISH LEGEND		
NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM	PRODUCT EQUAL TO: MANUFACTURER: STYLE: COLOR: SIZE: 24" X 24" X THK" SUSPENSION SYSTEM:
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	PRODUCT EQUAL TO: MANUFACTURER: STYLE: COLOR: SIZE: 24" X 24" X THK" SUSPENSION SYSTEM:
ACT-3	ACOUSTICAL CEILING TILE SYSTEM	PRODUCT EQUAL TO: MANUFACTURER: STYLE: COLOR: SIZE: 24" X 24" X THK" SUSPENSION SYSTEM:
MGB-1	MOISTURE RESISTANT GYP BOARD CEILING	PRODUCT EQUAL TO: PAINTED GYP BOARD CEILING - MOISTURE RESISTANT COLOR: PNT-XXX (U.N.O. ON RCP)
GYP-1	GYP BOARD CEILING	PRODUCT EQUAL TO PAINTED GYP BOARD CEILING COLOR: PNT-XXX (U.N.O. ON RCP)
GYP-2	GYP BOARD CEILING	PRODUCT EQUAL TO TYPE X GYP BOARD CEILING - 1 HOUR FIRE RATED COLOR: PNT-XXX (U.N.O. ON RCP)
EXP-1	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH NO FINISH
EXP-2	EXPOSED TO STRUCTURE	EQUAL TO: EXPOSED TO STRUCTURE - WITH FINISH. PAINT ALL EXPOSED ELEMENTS COLOR: XXX SEE RCP NOTES
EGB-1	EXTERIOR GYP BOARD CEILING	EQUAL TO: EXTERIOR GYP BOARD CEILING WITH SKIM COAT FINISH COLOR: XXX



1 SECOND FLOOR RCP
SCALE: 1/8" = 1'-0"

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY WATER
& SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007



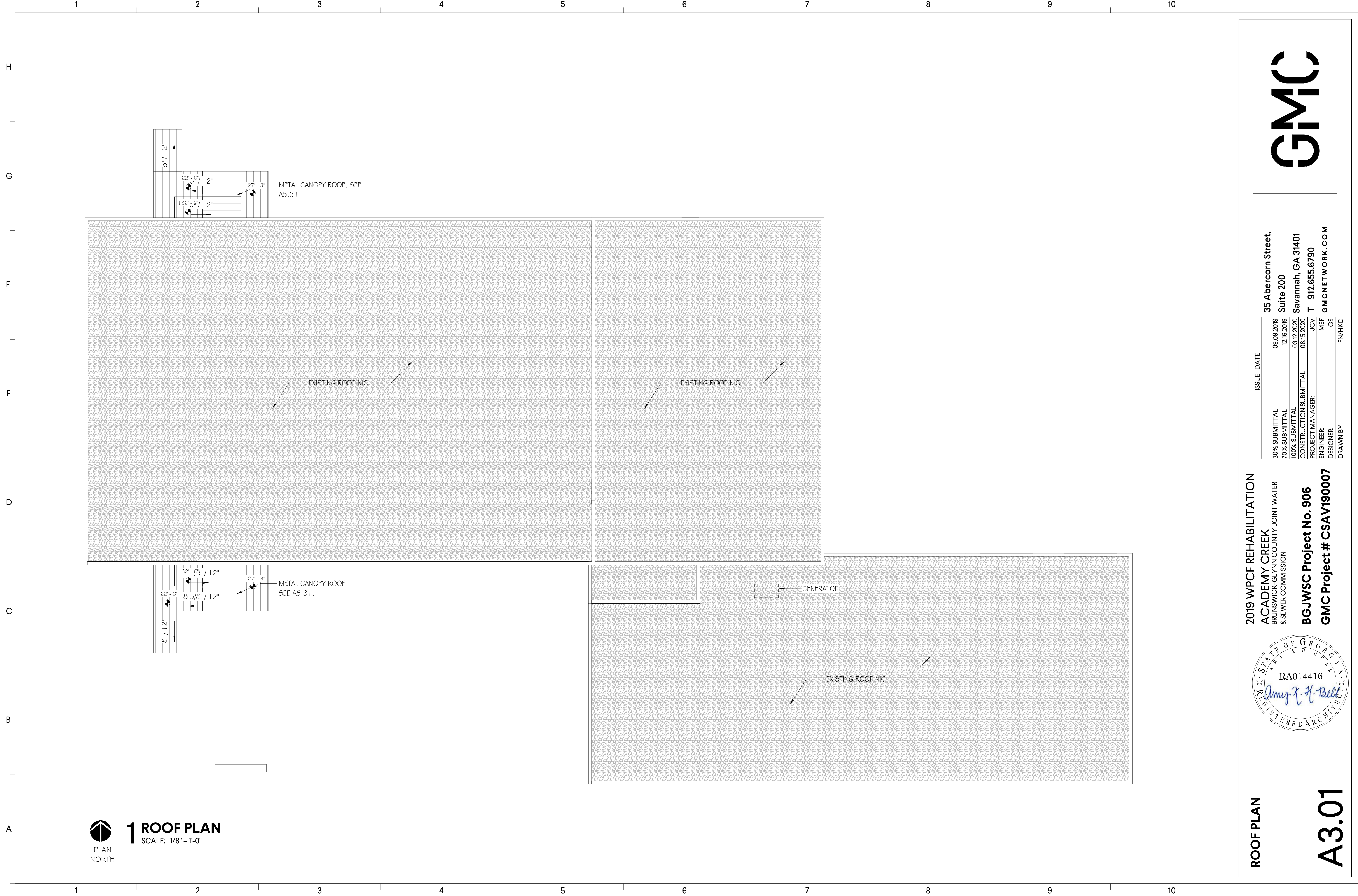
**SECOND FLOOR
REFLECTED CEILING
PLAN**
A2.02

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CONSTRUCTION SUBMITTAL 06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: FN/HKD

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

ROOF PLAN

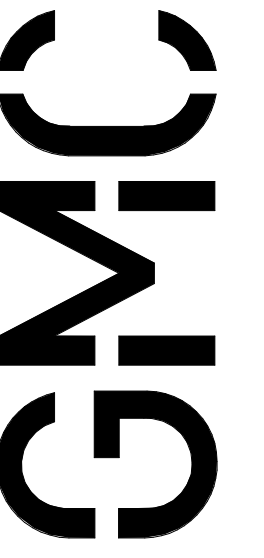
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2019 WPCF REHABILITATION
ACADEMY CREEK
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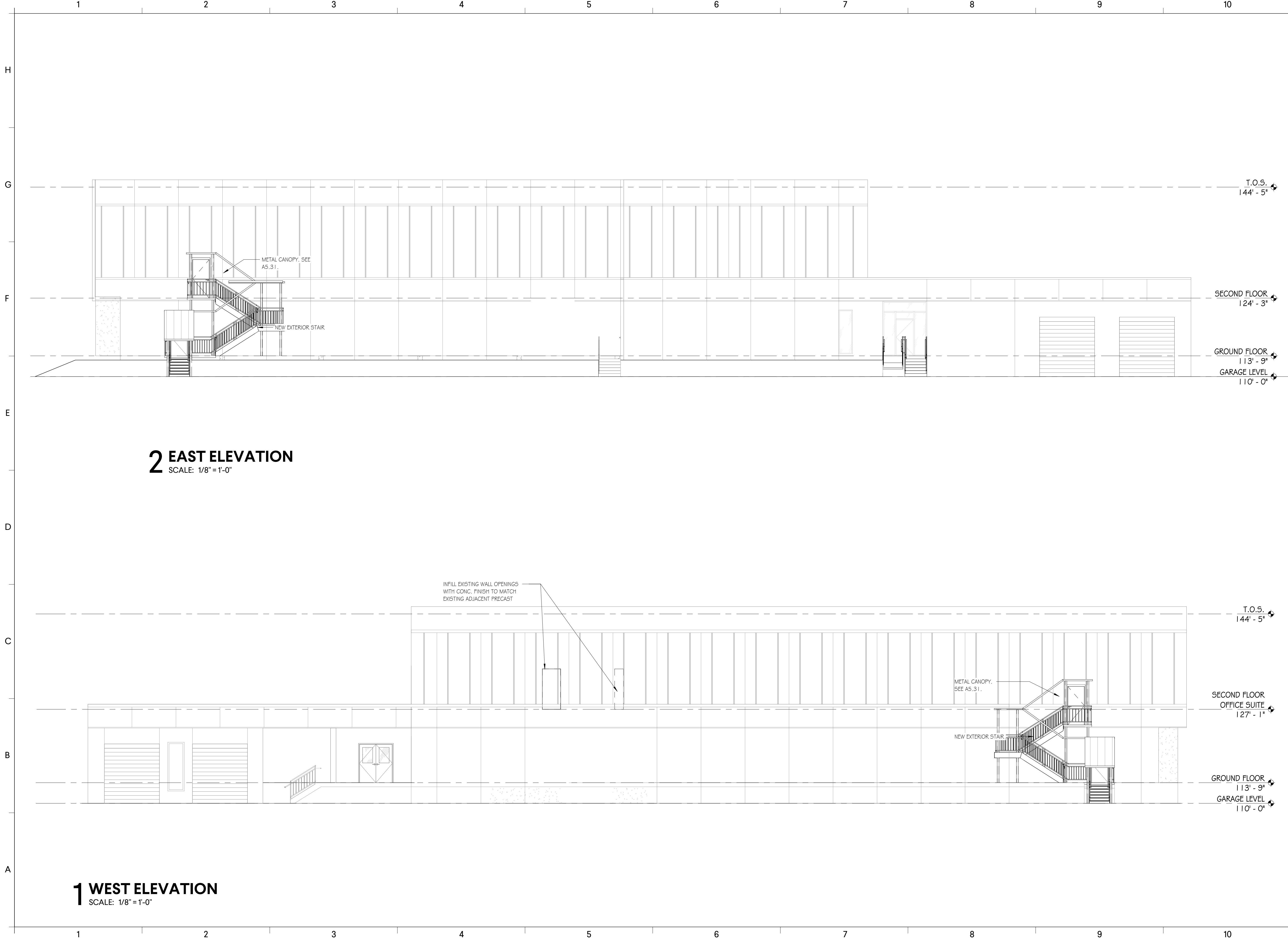
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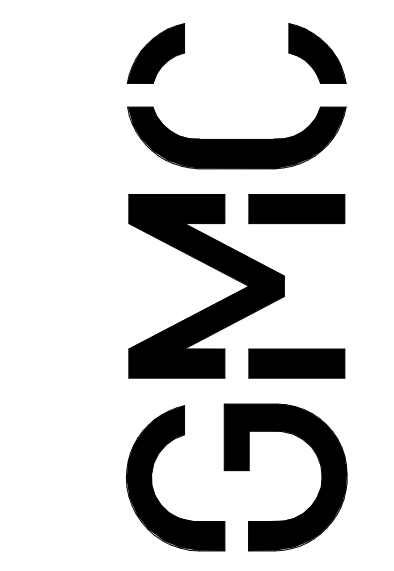
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2 EAST ELEVATION
SCALE: 1/8" = 1'-0"

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



ISSUE	DATE	DESCRIPTION
30% SUBMITTAL	09.09.2019	
70% SUBMITTAL	12.16.2019	
100% SUBMITTAL	03.12.2020	
CONSTRUCTION SUBMITTAL	06.15.2020	

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
 & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

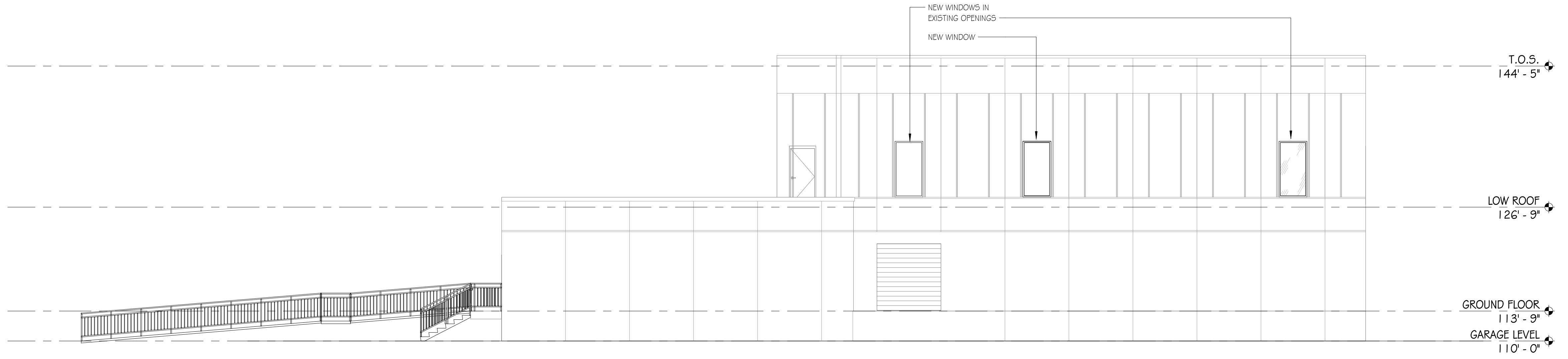


EXTERIOR ELEVATIONS

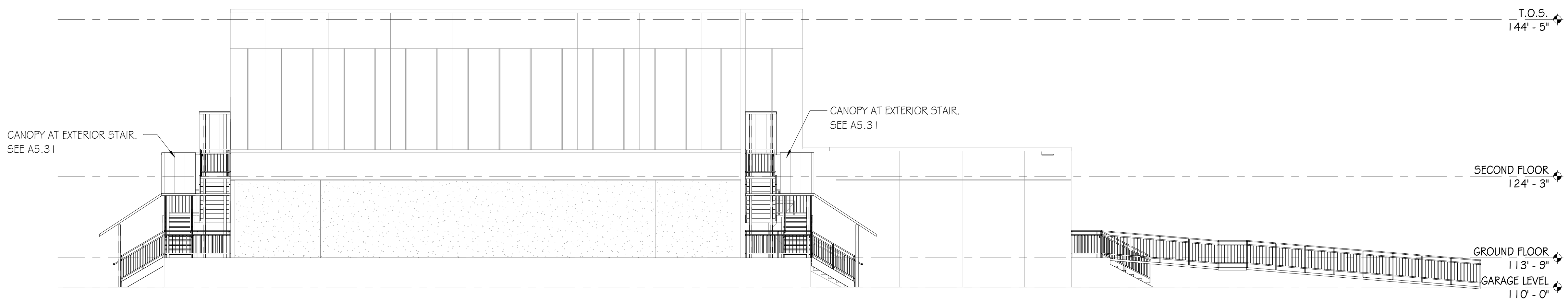
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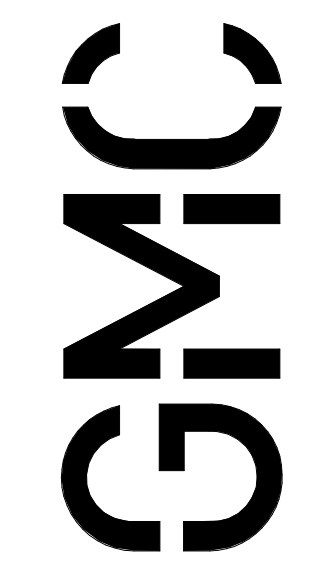
H
G
F
E
D
C
B
A



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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



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DESIGNER:	GS
DRAWN BY:	FN/HKD

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
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BGJWSC Project No. 906
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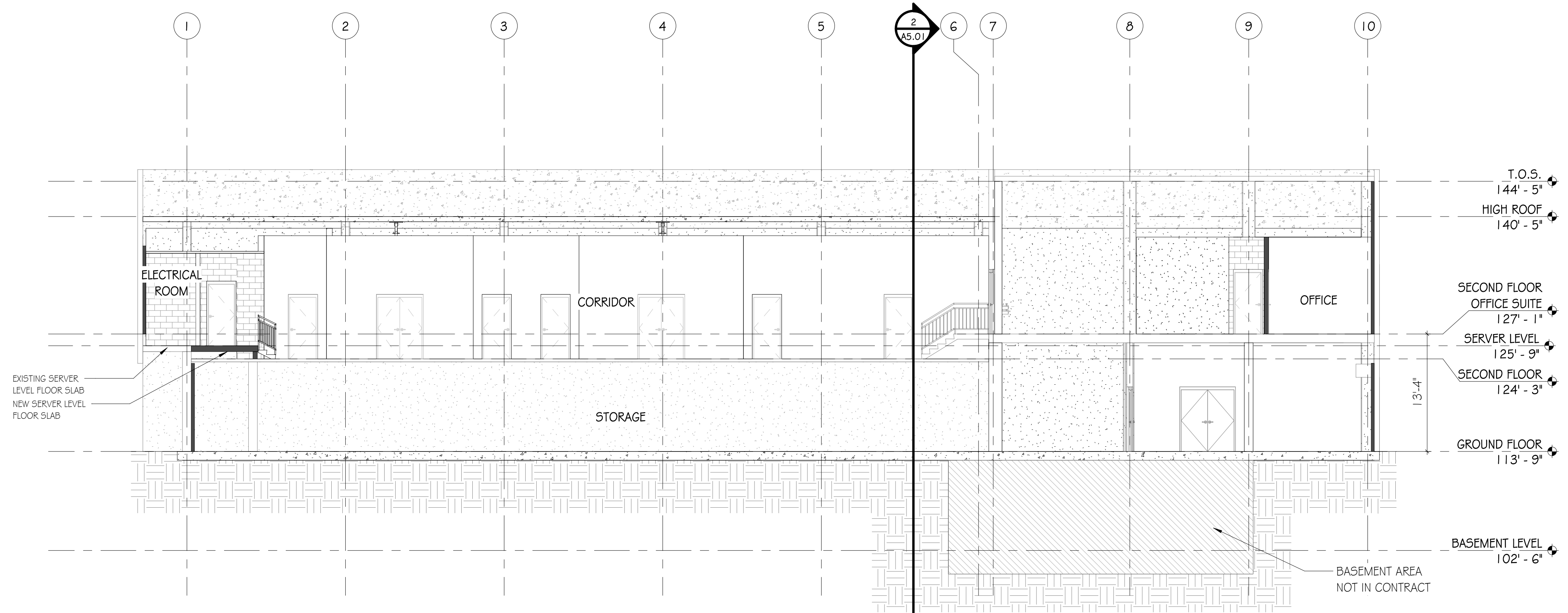
EXTERIOR ELEVATIONS

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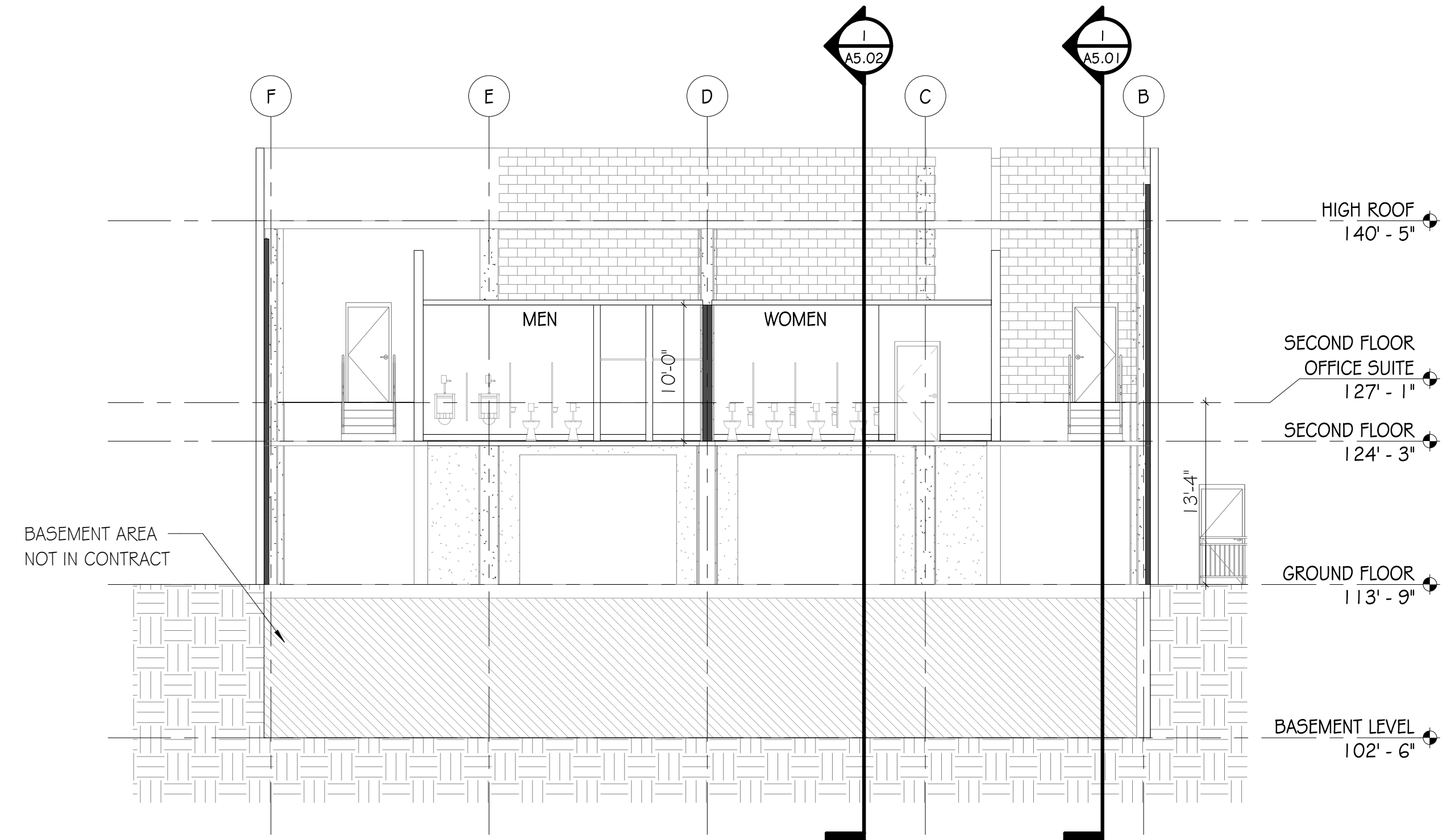
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6/8/2020 12:38:20 PM

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



2 BUILDING SECTION SCALE: 1/8" = 1'-0"

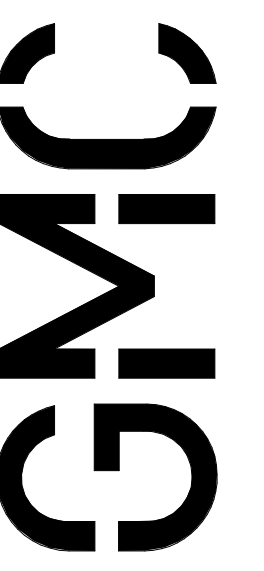


BUILDING SECTIONS

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGWSC Project No. 906
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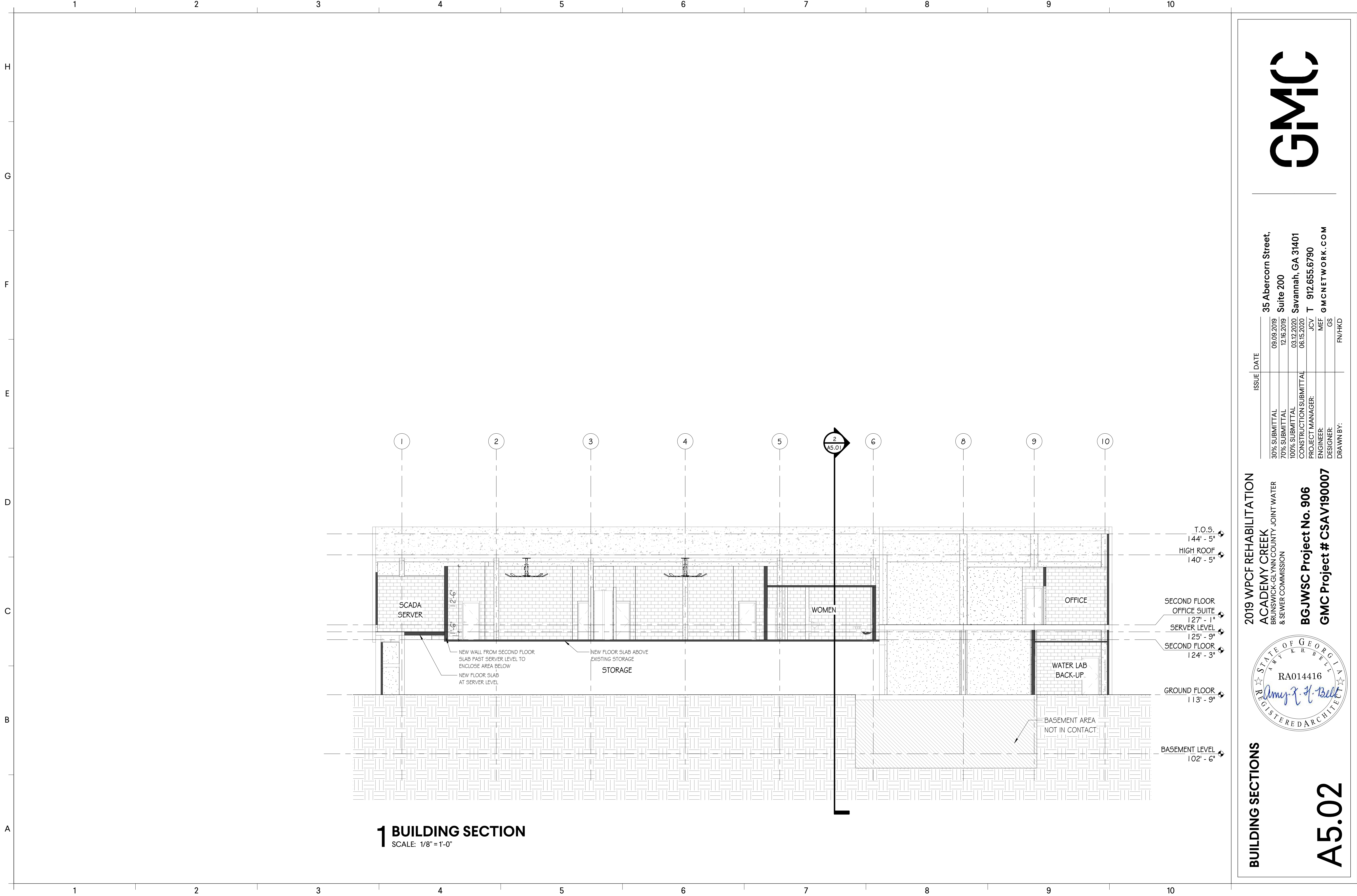
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6/8/2020 12:38:21 PM



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

BUILDING SECTIONS

2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION

BGWSC Project No. 906
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A5.02

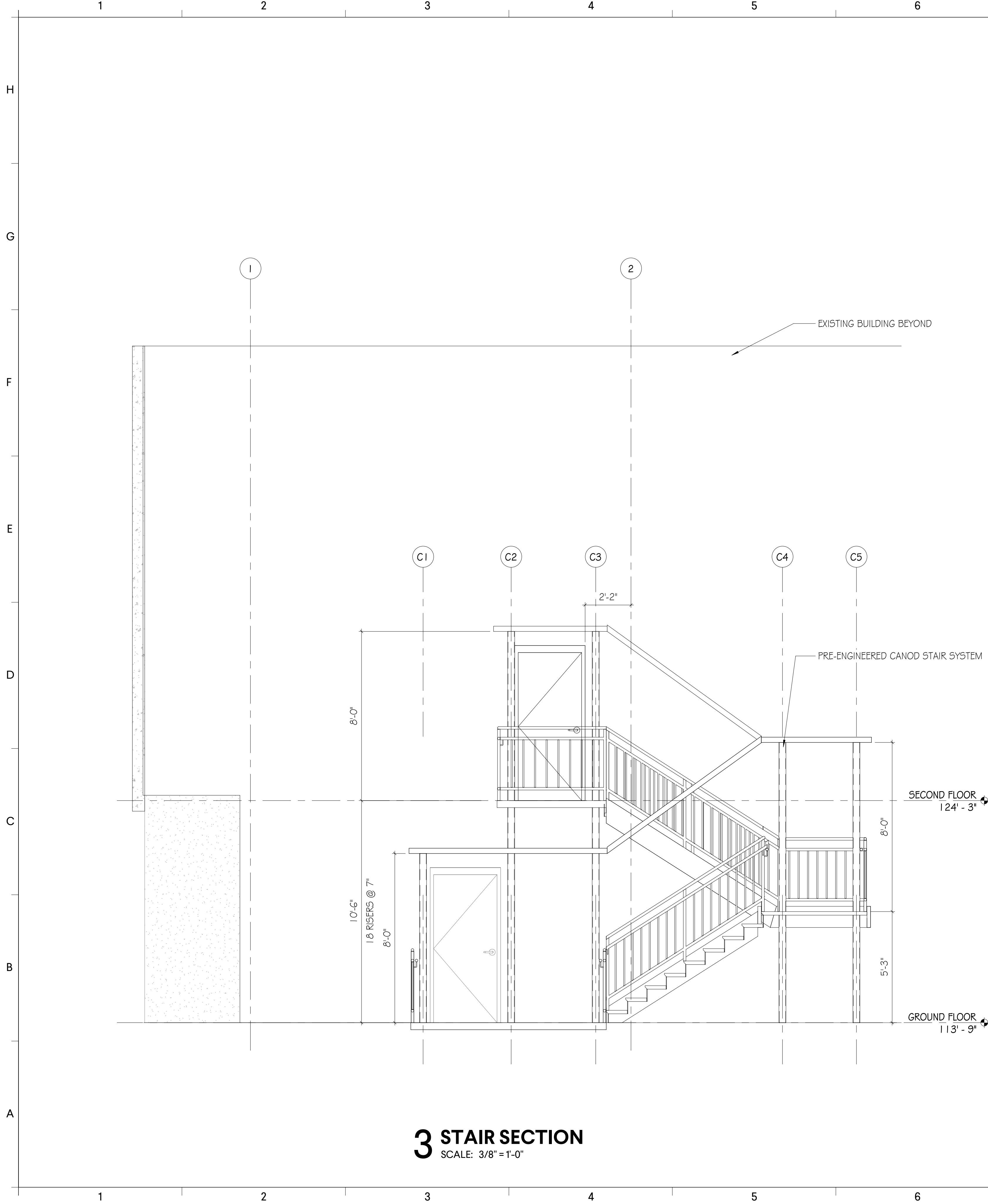


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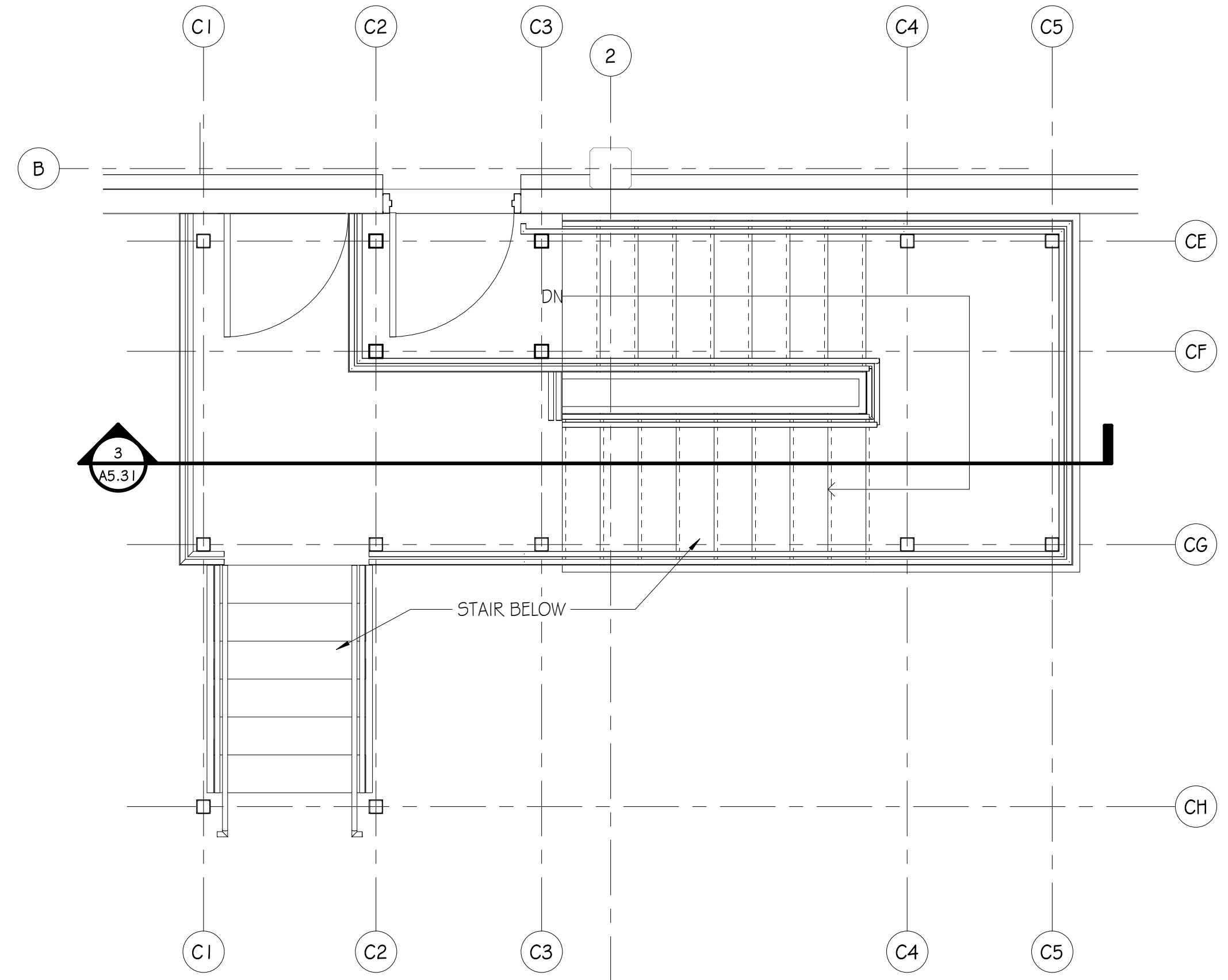
PROJECT MANAGER: JCV
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DESIGNER: GS
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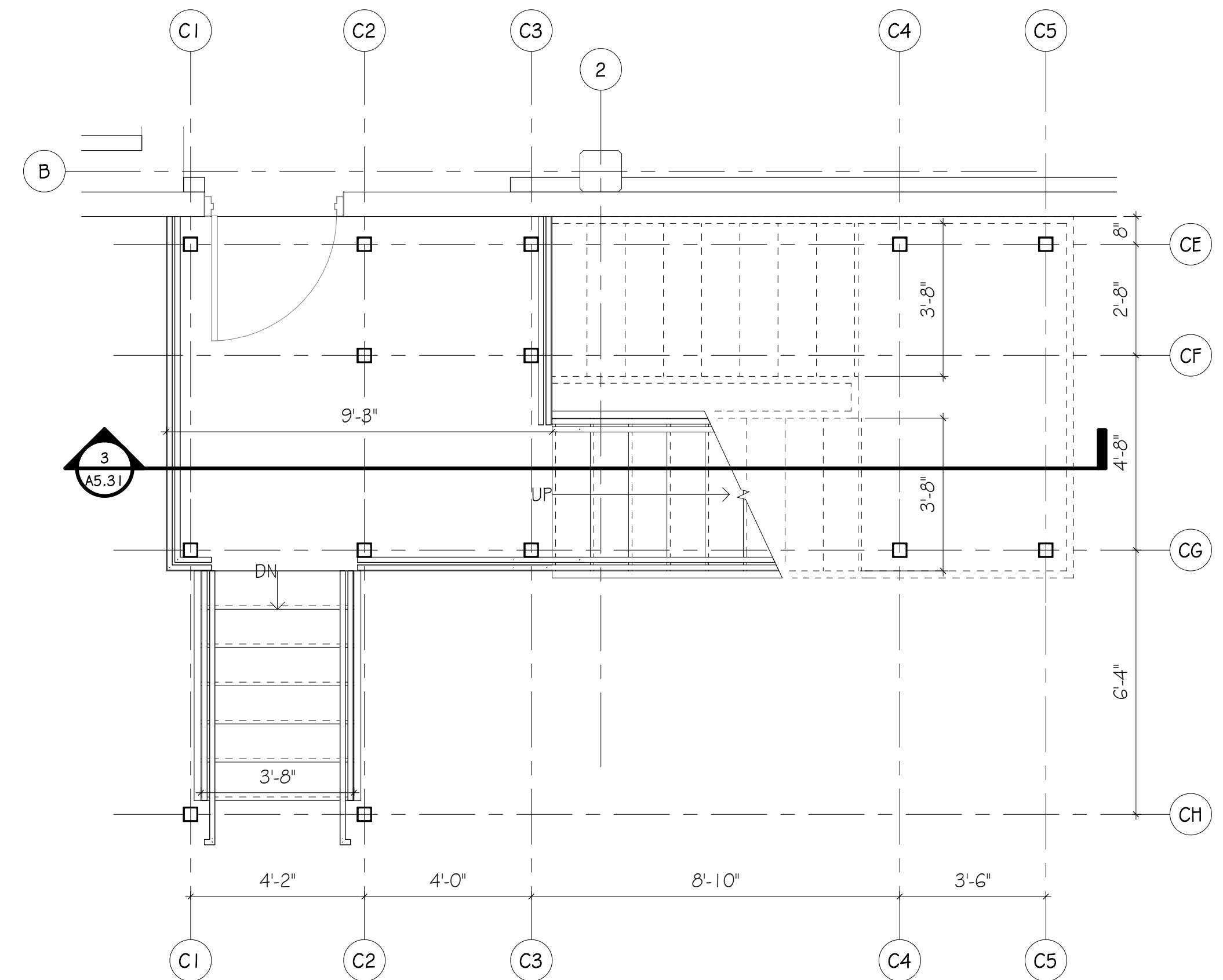
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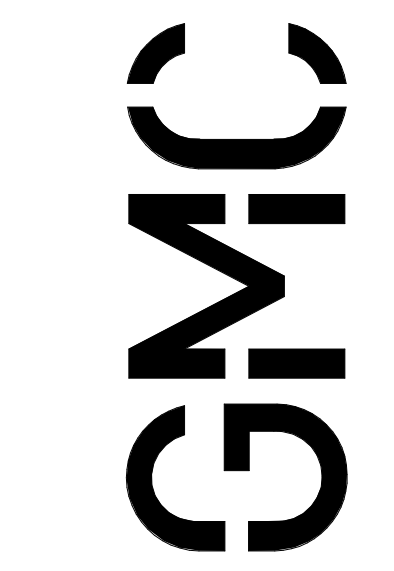
3 STAIR SECTION
SCALE: 3/8" = 1'-0"



1 SECOND FLOOR STAIR PLAN
SCALE: 3/8" = 1'-0"

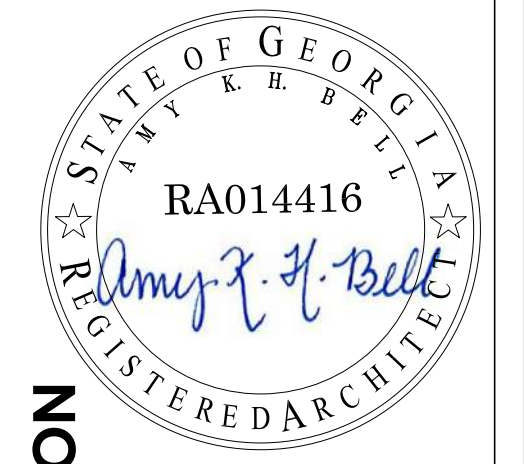


2 FIRST FLOOR STAIR PLAN
SCALE: 3/8" = 1'-0"



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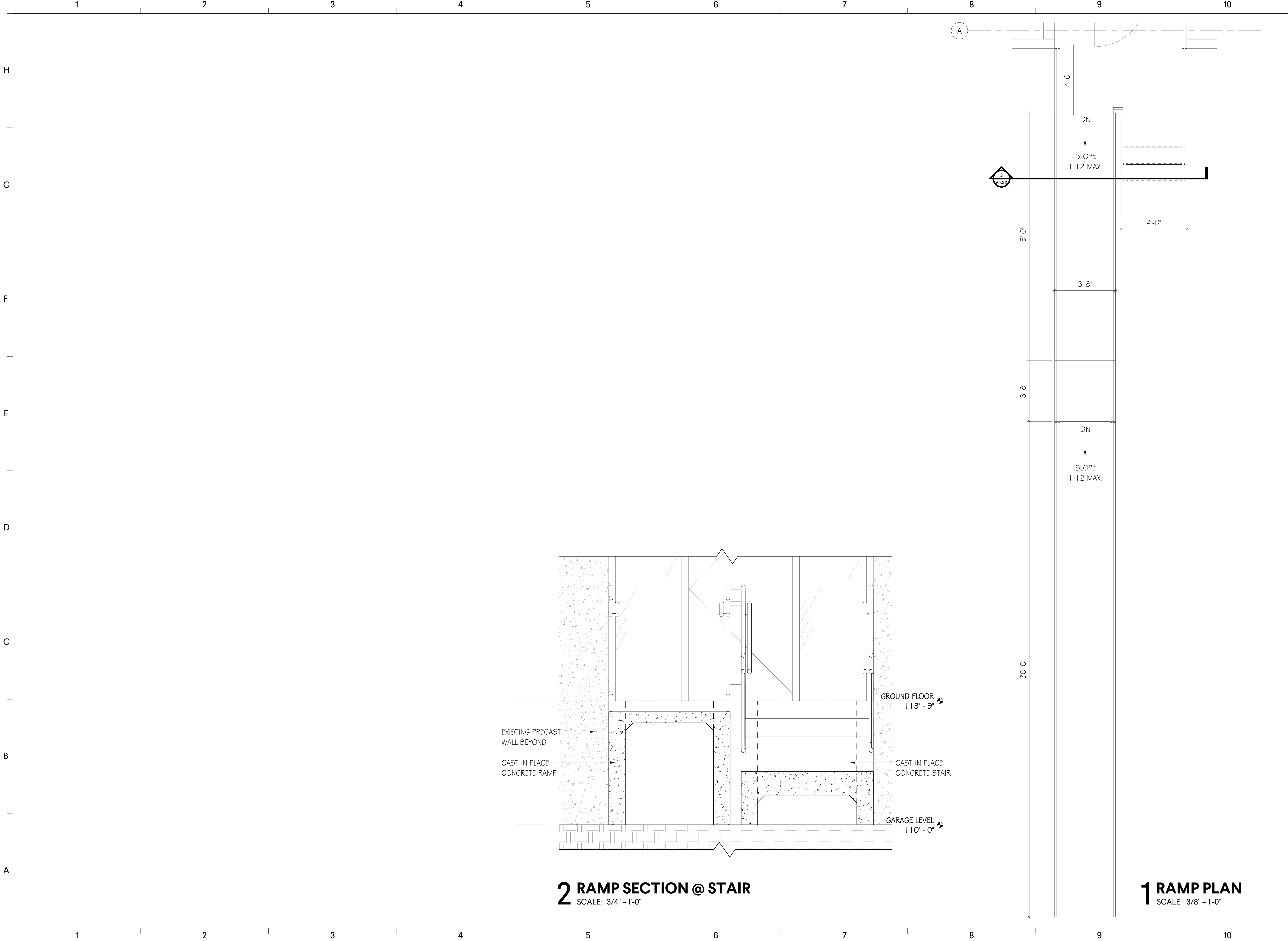
2019 WPCF REHABILITATION
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VERTICAL CIRCULATION

A5.31

6/8/2020 12:38:25 PM



2 RAMP SECTION @ STAIR
SCALE: 3/4" = 1'-0"

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

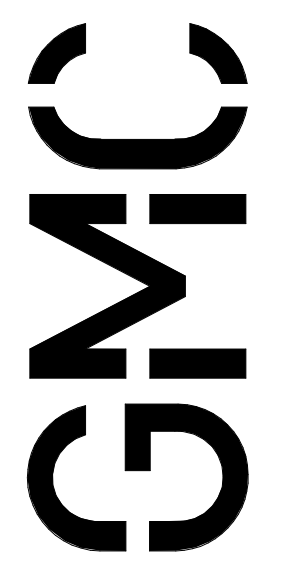
VERTICAL CIRCULATION



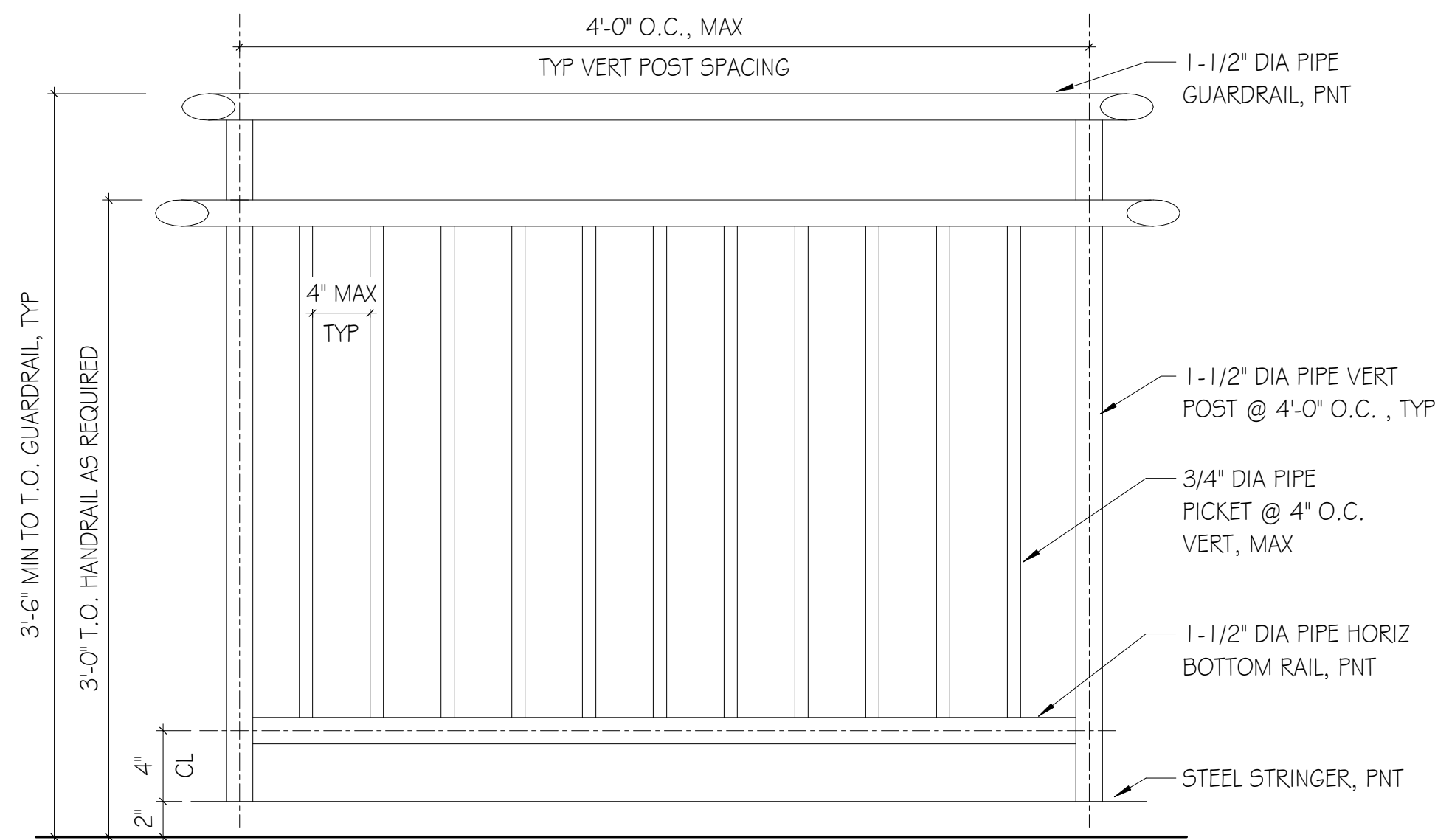
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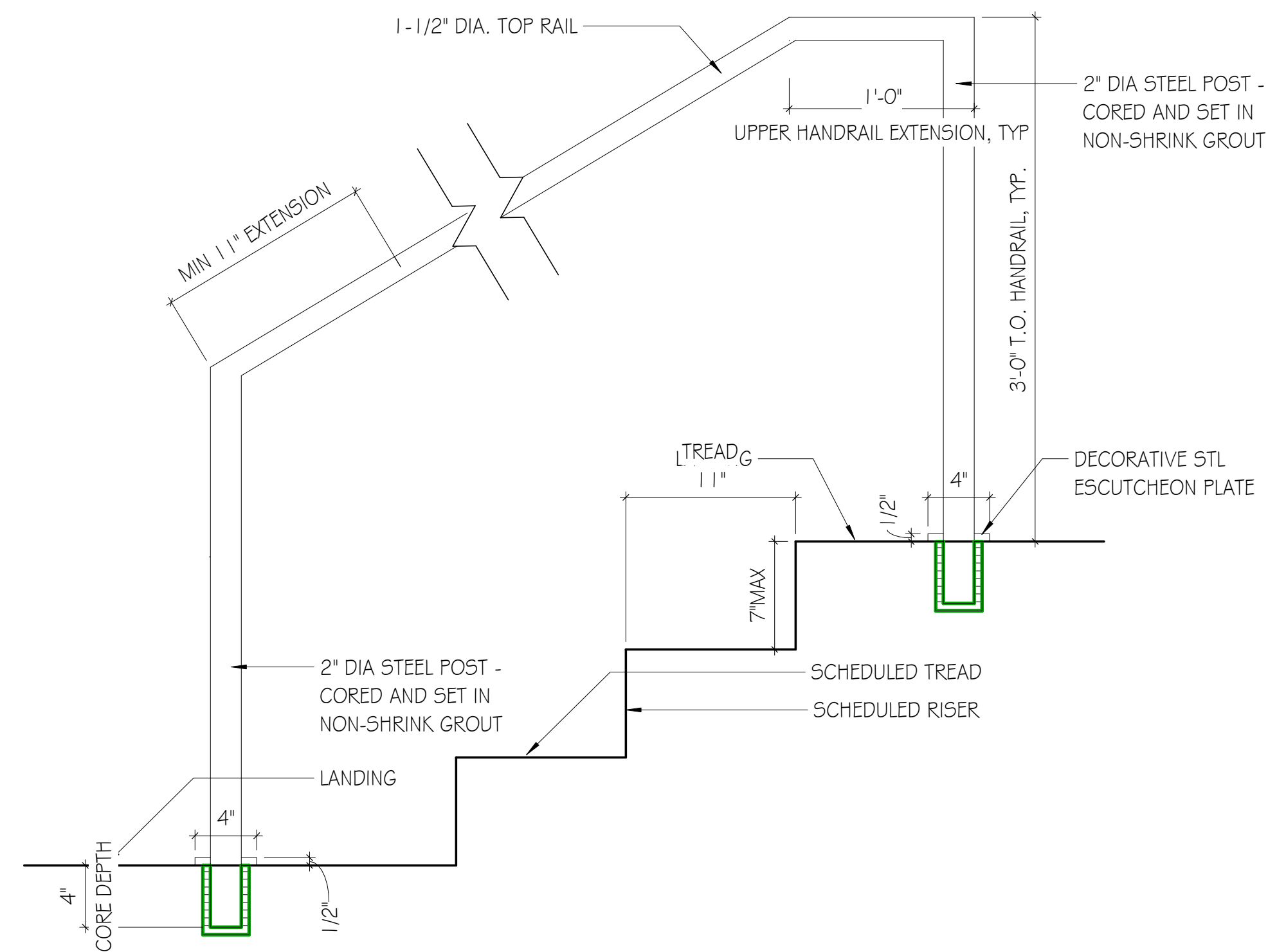
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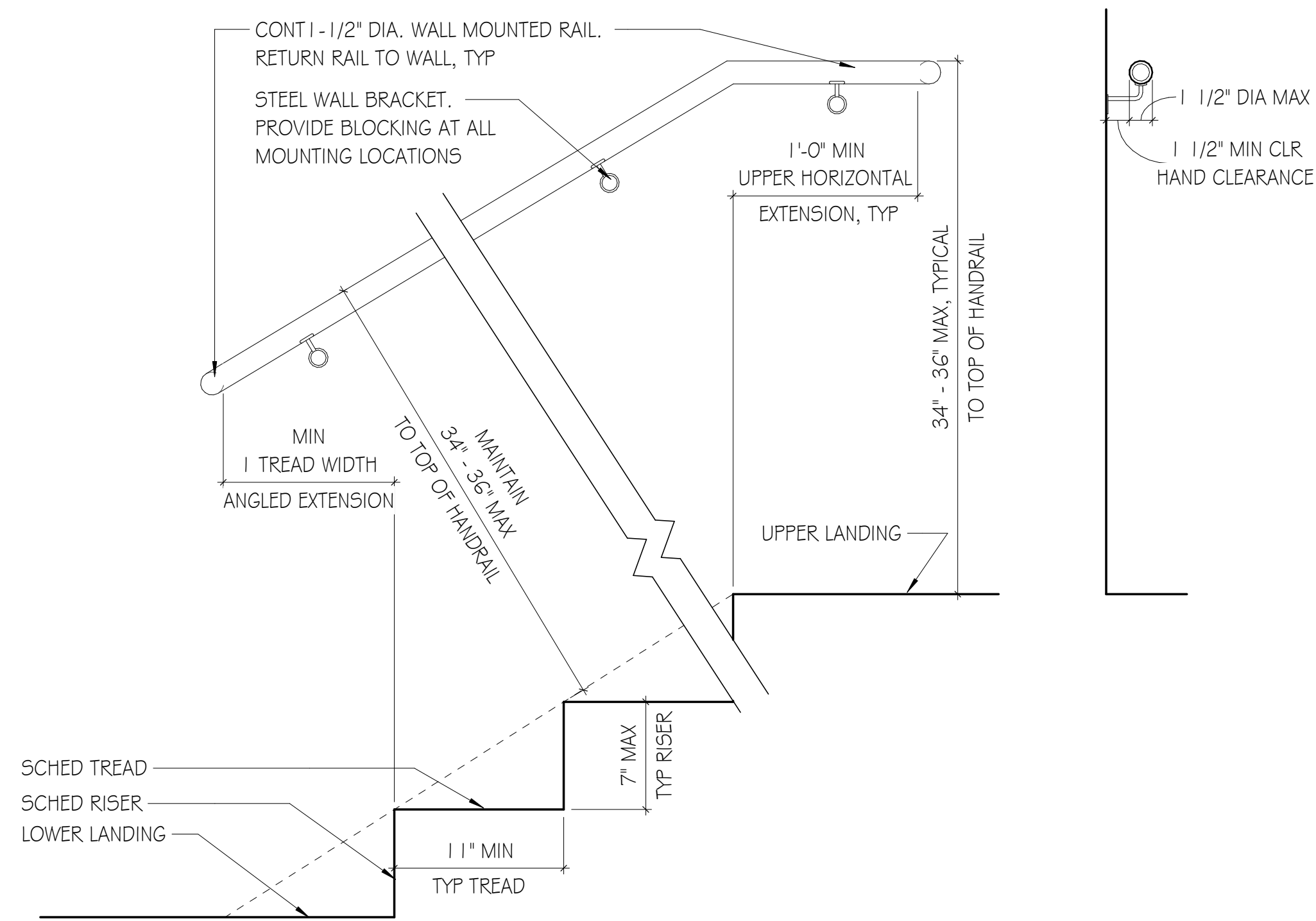
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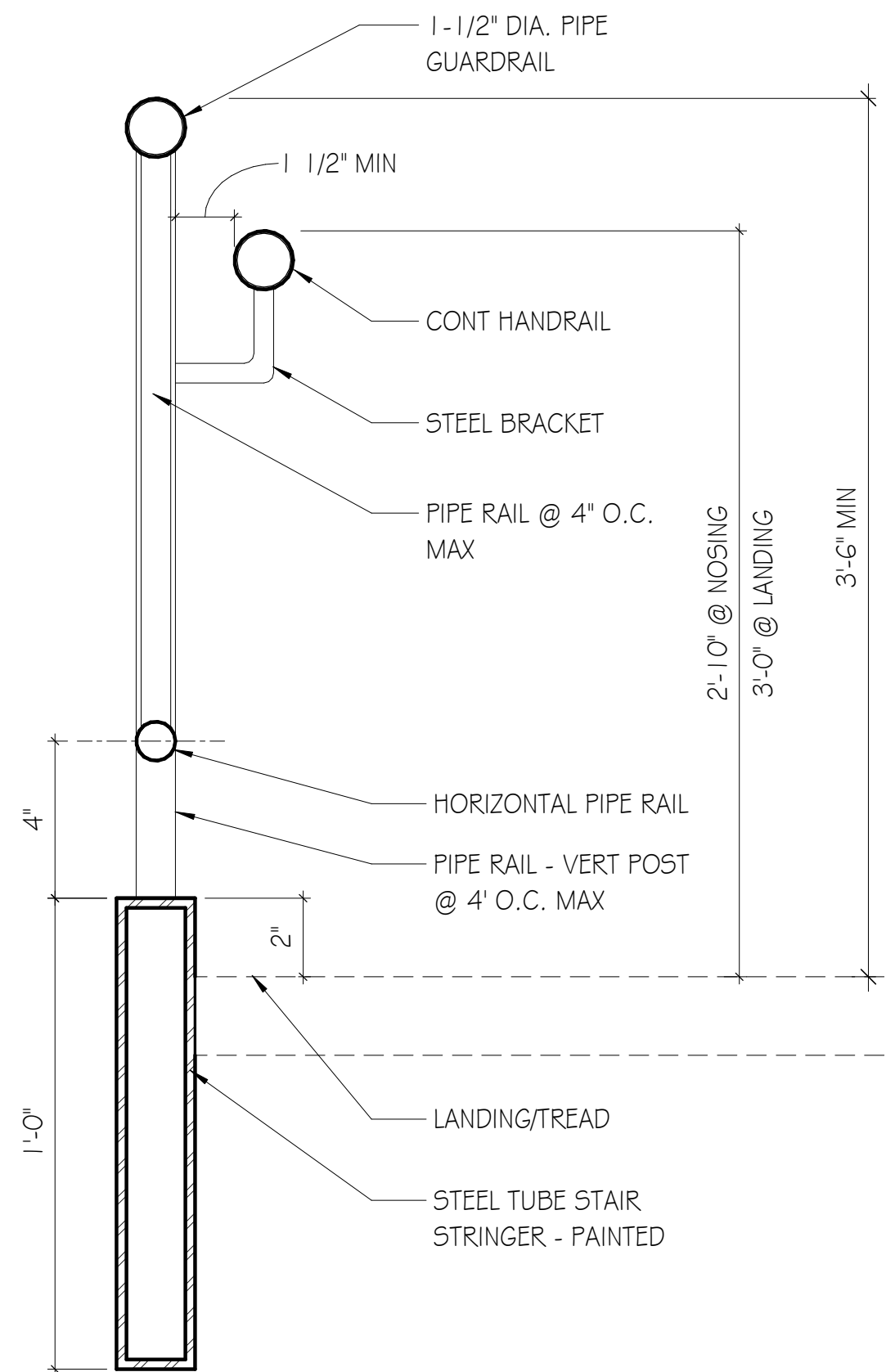
4 TYPICAL GUARDRAIL ELEVATION
SCALE: 1 1/2" = 1'-0"



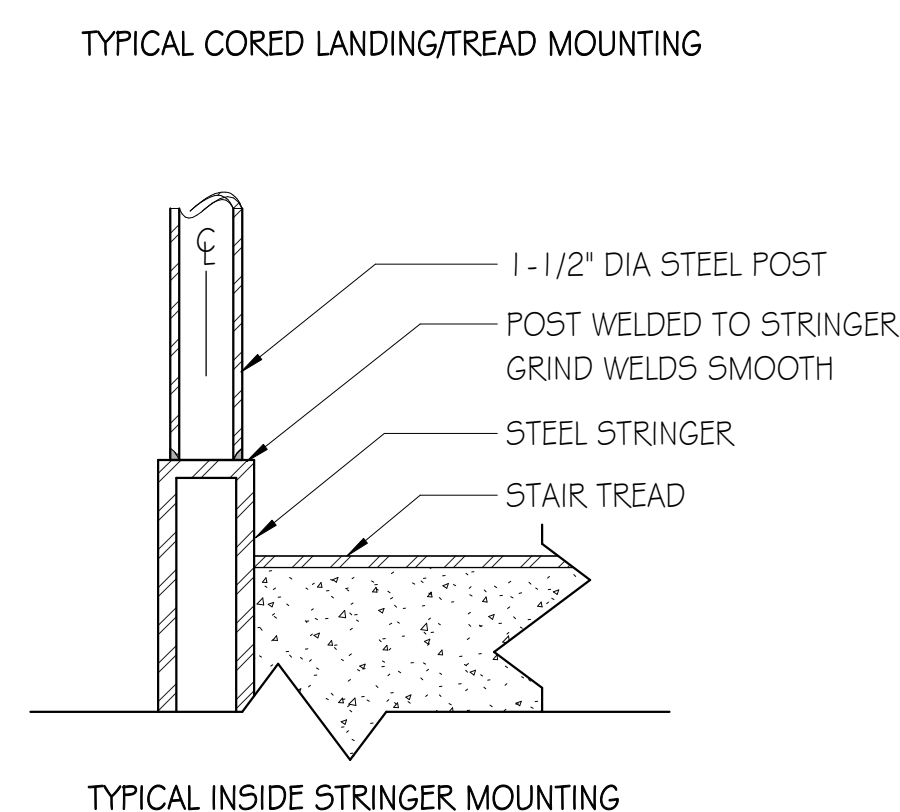
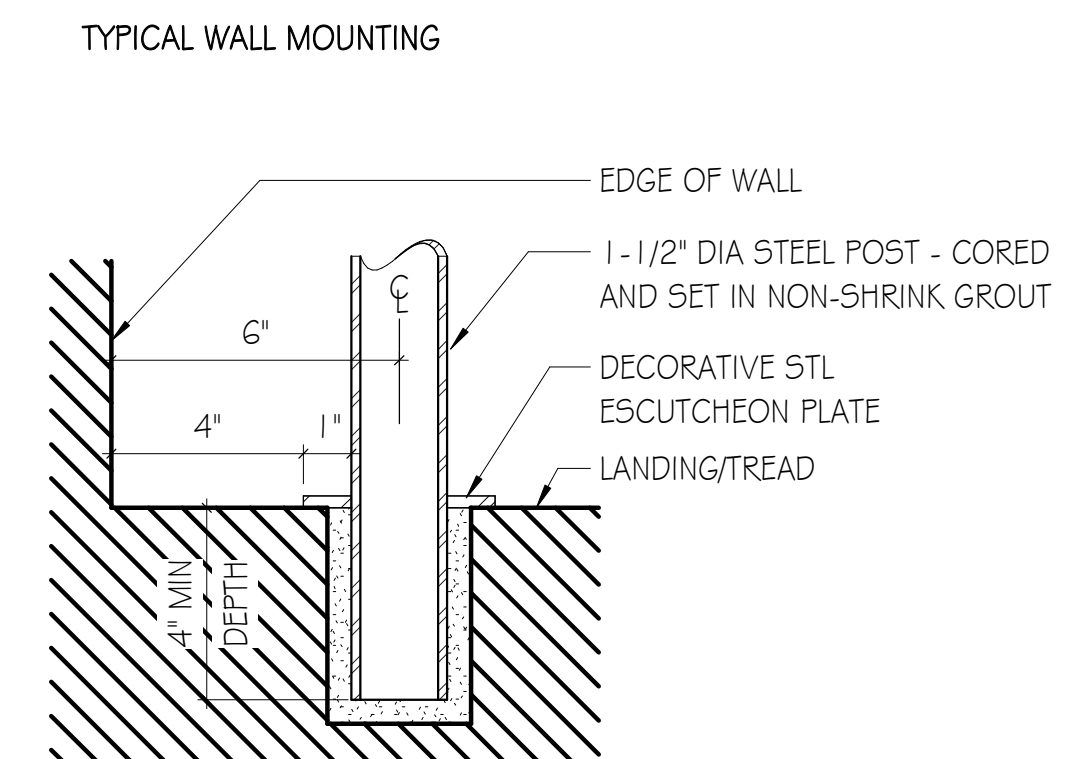
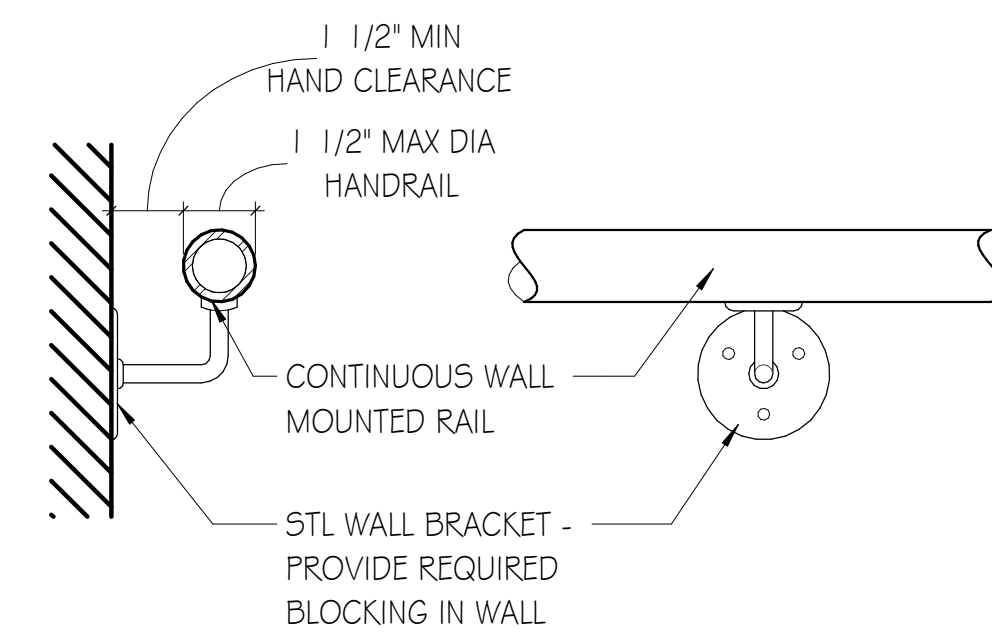
2 TYPICAL FLOOR MOUNTED HANDRAIL
SCALE: 1 1/2" = 1'-0"



3 TYPICAL WALL MOUNTED HANDRAIL
SCALE: 1 1/2" = 1'-0"



1 TYPICAL RAIL MOUNT - STRINGER
SCALE: 3" = 1'-0"



RAILING ABBREVIATIONS

- WM - WALL MOUNTED
- FMW - FLOOR MOUNTED/WELDED TO EMBED
- FMC - FLOOR (TREAD/LANDING) MOUNTED/CORED
- PF - PREFINISHED
- PNT - PAINTED FINISH
- SST - STAINLESS STEEL
- STL - STEEL
- G - GLASS RAILING INFILL
- HR-1 - HANDRAIL
- HR-2 - DOUBLE SIDED HANDRAIL
- GR - GUARDRAIL
- SMW - STRINGER MOUNTED/WELDED
- ALUM - ALUMINUM
- STN - STAINED FINISH
- SL - SEALED FINISH
- SSM - SIDE STRINGER MOUNTED

RAILING GENERAL NOTES

- R.01. CODE COMPLIANCE: SEE GENERAL NOTES DIVISION 1 GENERAL REQUIREMENTS ITEM 1.09 FOR CODE COMPLIANCE.
- R.02. MULTI-TRADE COORDINATION: SEE GENERAL NOTES DIVISION 1 GENERAL REQUIREMENTS ITEM 1.02 FOR MULTI-TRADE COORDINATION.
- R.03. HANDRAIL DIMENSIONS: DIMENSIONS FOR HAND RAILINGS AS INDICATED IN CONTRACT DOCUMENTS. WIDTH BETWEEN HANDRAILS AT STAIRS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 44 INCHES CLEAR. WIDTH BETWEEN HANDRAILS AT RAMP AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 36 INCHES. HEIGHT OF HANDRAILS ABOVE STAIR TREAD NOSING OR FINISH SURFACES OF RAMP AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL BE UNIFORM AND NOT LESS THAN 24 INCHES AND NOT MORE THAN 38 INCHES. DIAMETER OF HANDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT HAVE AN OUTSIDE DIAMETER OF LESS THAN 1-1/4 INCHES AND NOT GREATER THAN 2 INCHES. NON CIRCULAR HANDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6-1/4 INCHES WITH A MAXIMUM CROSS-SECTION DIMENSION OF 2-1/4 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCHES. HANDRAIL EXTENSIONS AS INDICATED IN CONTRACT DOCUMENTS, BUT WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT RAMP WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN RUNS, THE HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. THE EXTENSIONS OF HANDRAILS SHALL BE IN THE SAME DIRECTION OF THE STAIR FLIGHT AS STAIRWAYS AND RAMP RUNS AT RAMP. CLEAR SPACE BETWEEN HANDRAIL AND WALL OR OTHER SURFACE AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL BE A MINIMUM OF 1-1/2 INCHES.
- R.04. GUARDRAIL DIMENSIONS: DIMENSIONS FOR GUARDRAILS AS INDICATED IN CONTRACT DOCUMENTS. HEIGHT OF GUARDRAILS ABOVE ADJACENT WALKING SURFACES, ADJACENT FIXED SEATING, OR THE LINE CONNECTING THE LEADING EDGE OF TREADS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 42 INCHES. OPENINGS IN GUARDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT ALLOW THE PASSAGE OF A SPHERE 4 INCHES IN DIAMETER FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT (FOR ROOF ACCESS SHALL PREVENT THE PASSAGE OF A SPHERE 21 INCHES IN DIAMETER). FROM A HEIGHT OF 36 INCHES TO 42 INCHES GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4-3/8 INCHES IN DIAMETER. THE TRIANGULAR OPENINGS AT THE OPEN SIDES OF A STAIR FORMED BY THE RISER, TREAD, AND BOTTOM RAIL SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER.



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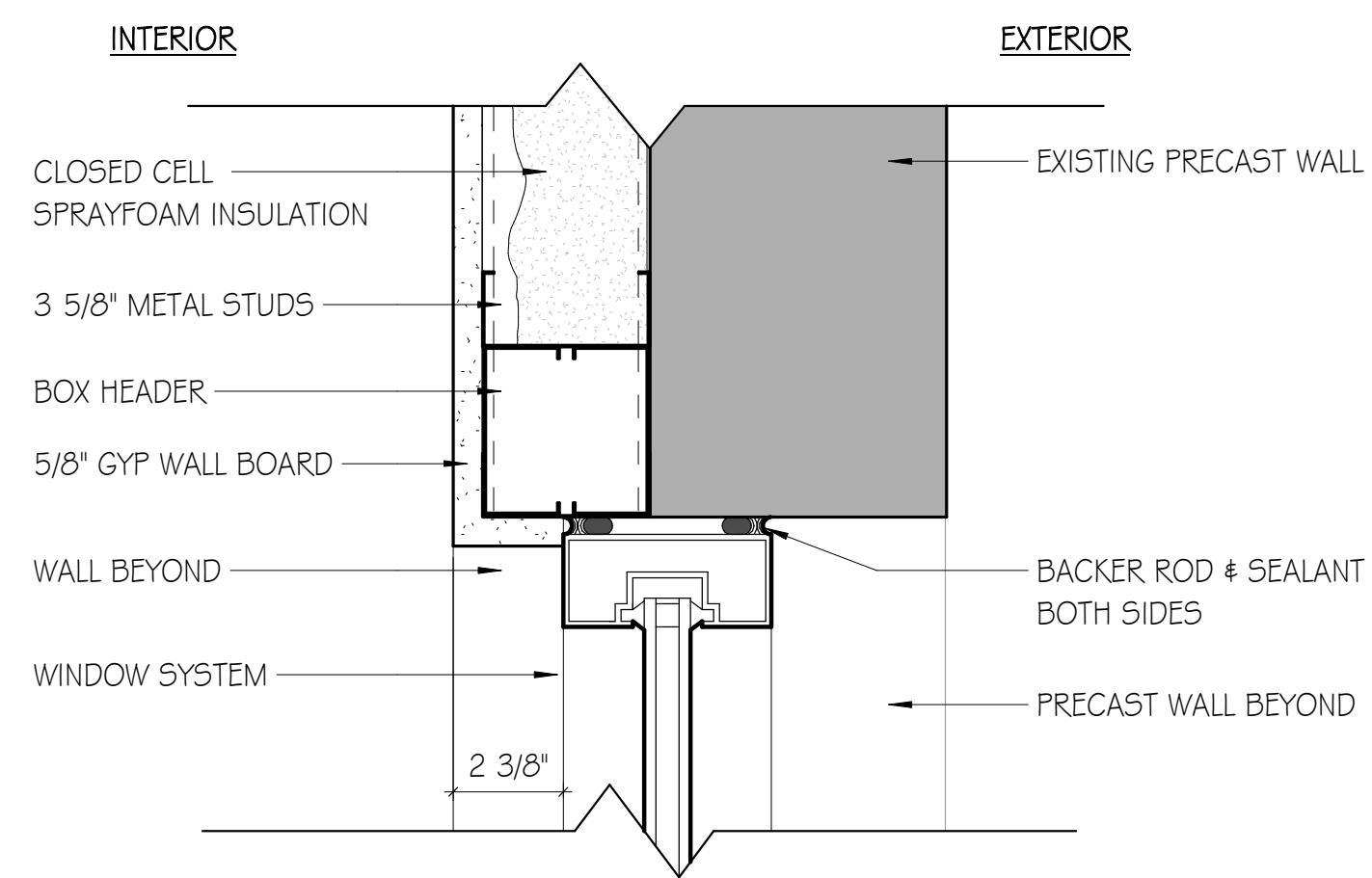
PROJECT MANAGER:	JCV
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DESIGNER:	GS
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2019 WPCF REHABILITATION
ACADEMY CREEK
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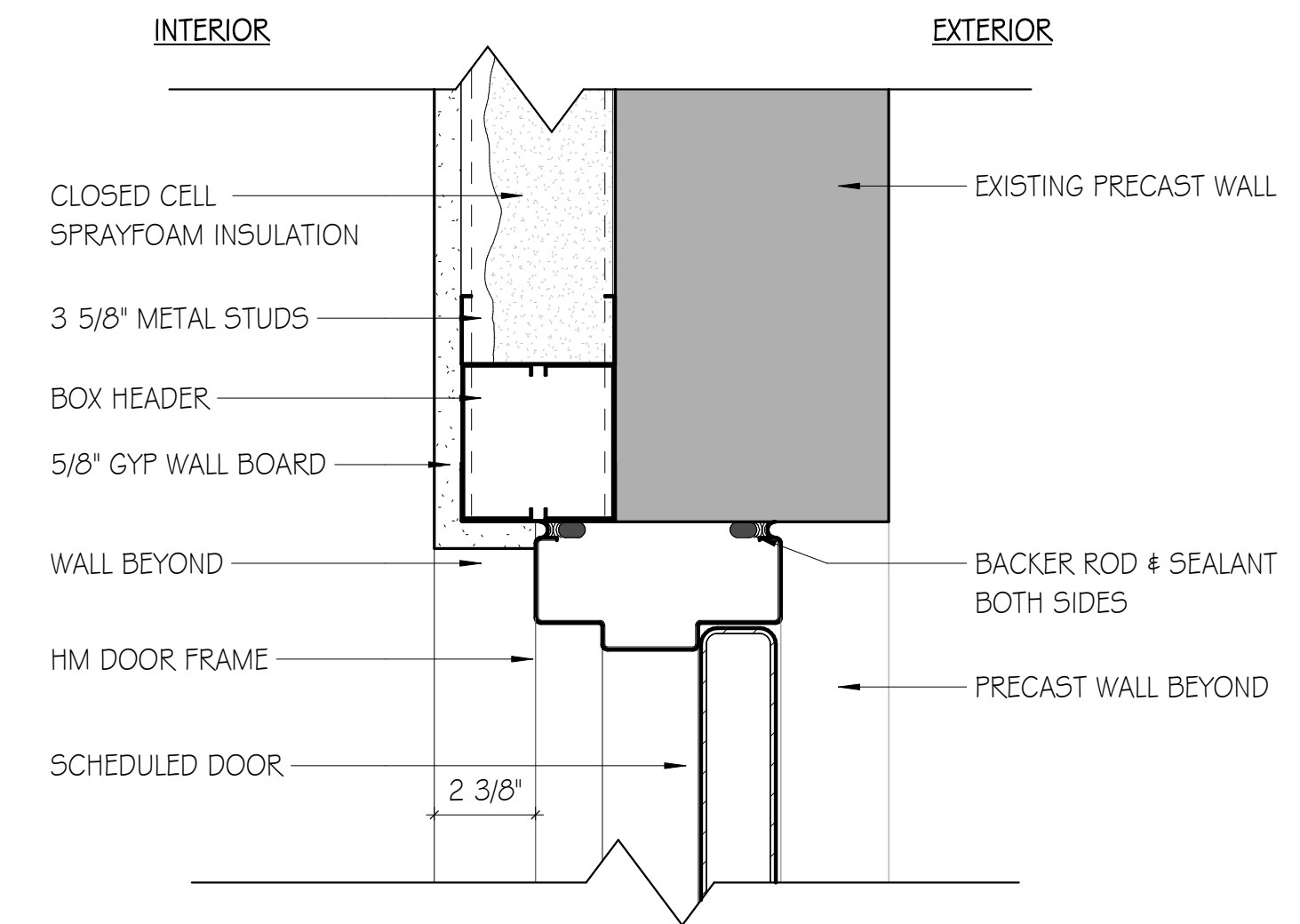


RAILING SCHEDULE & DETAILS
A5.41

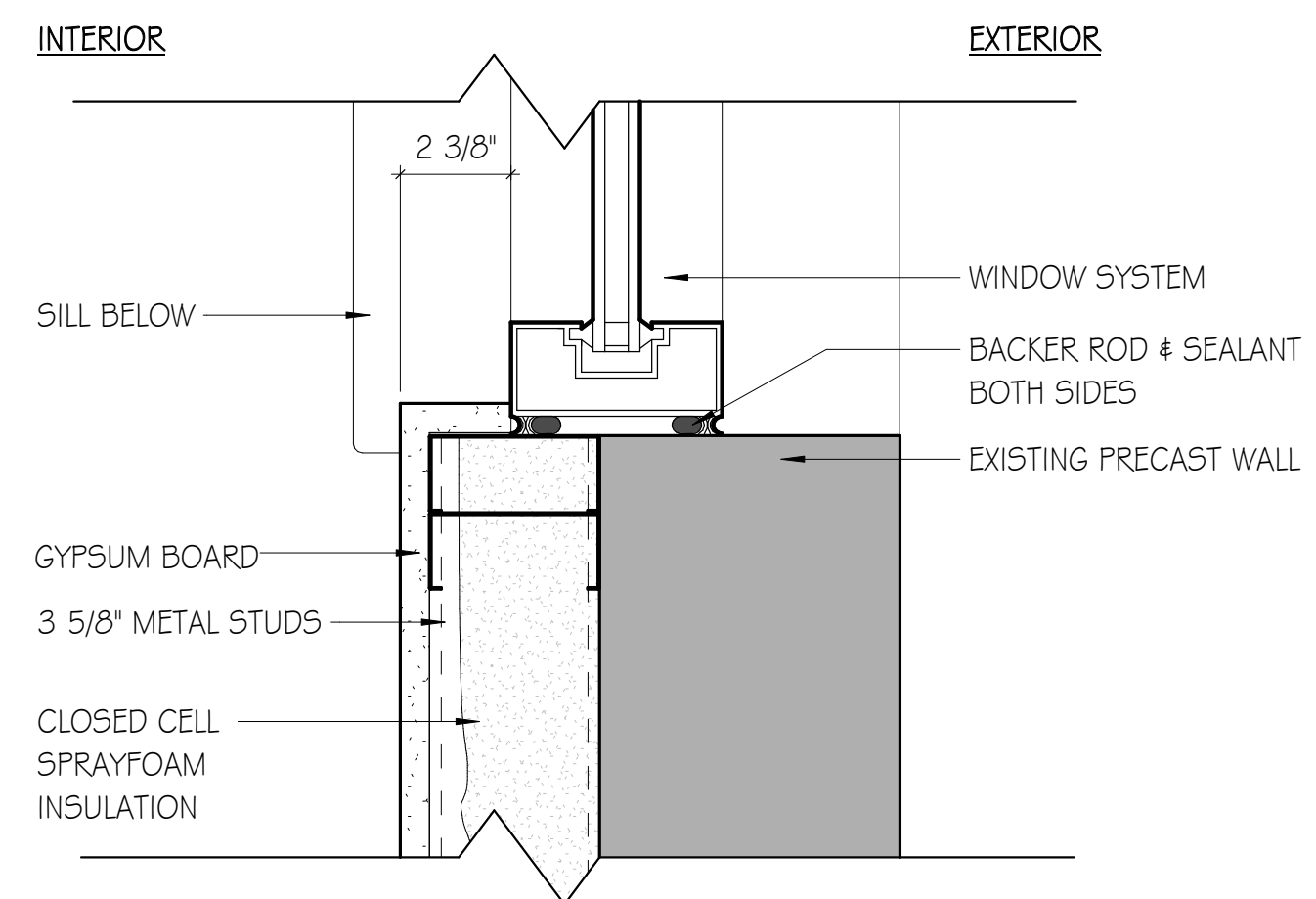
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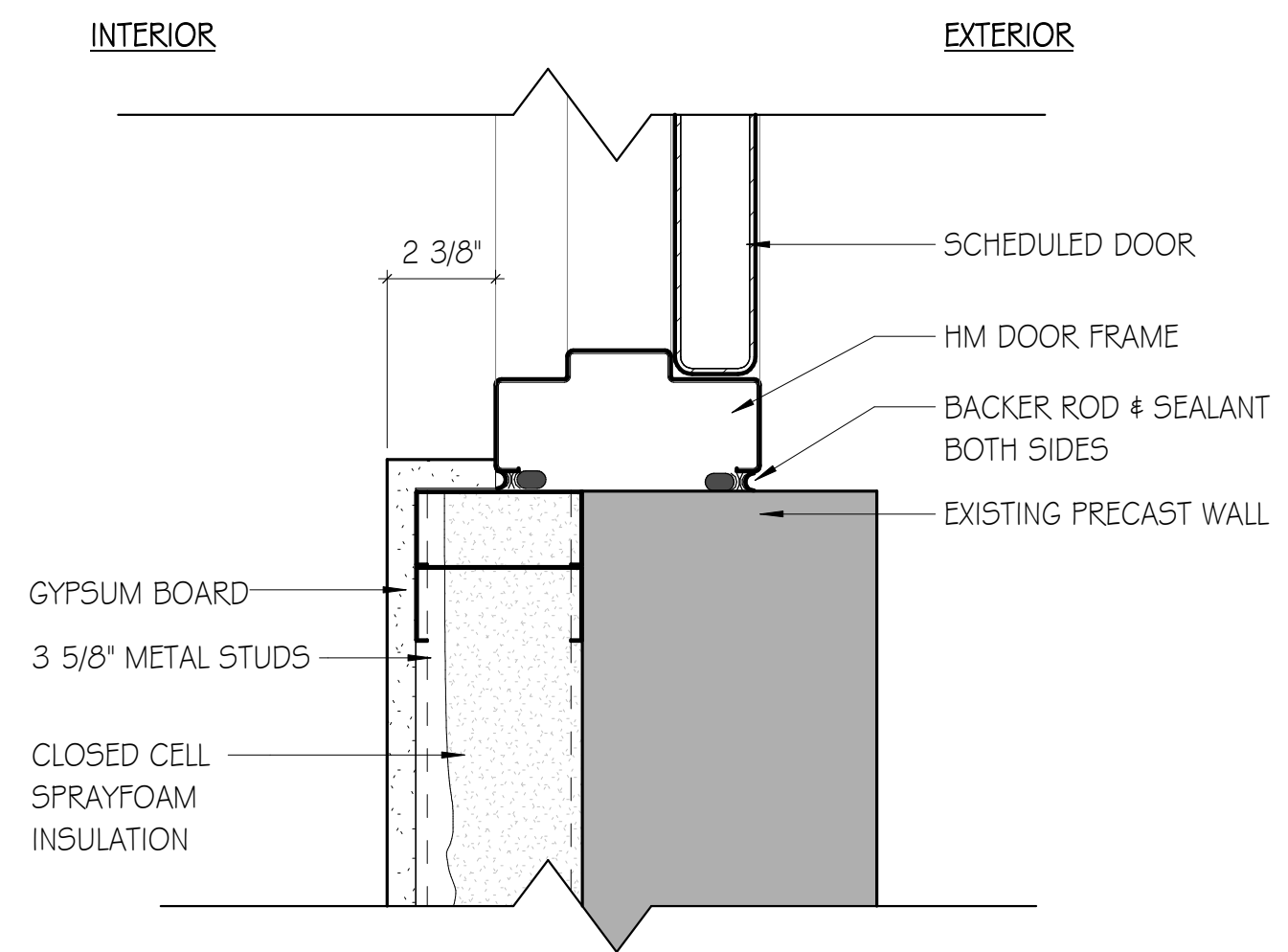
6 EXTERIOR WINDOW HEAD
SCALE: 3" = 1'-0"



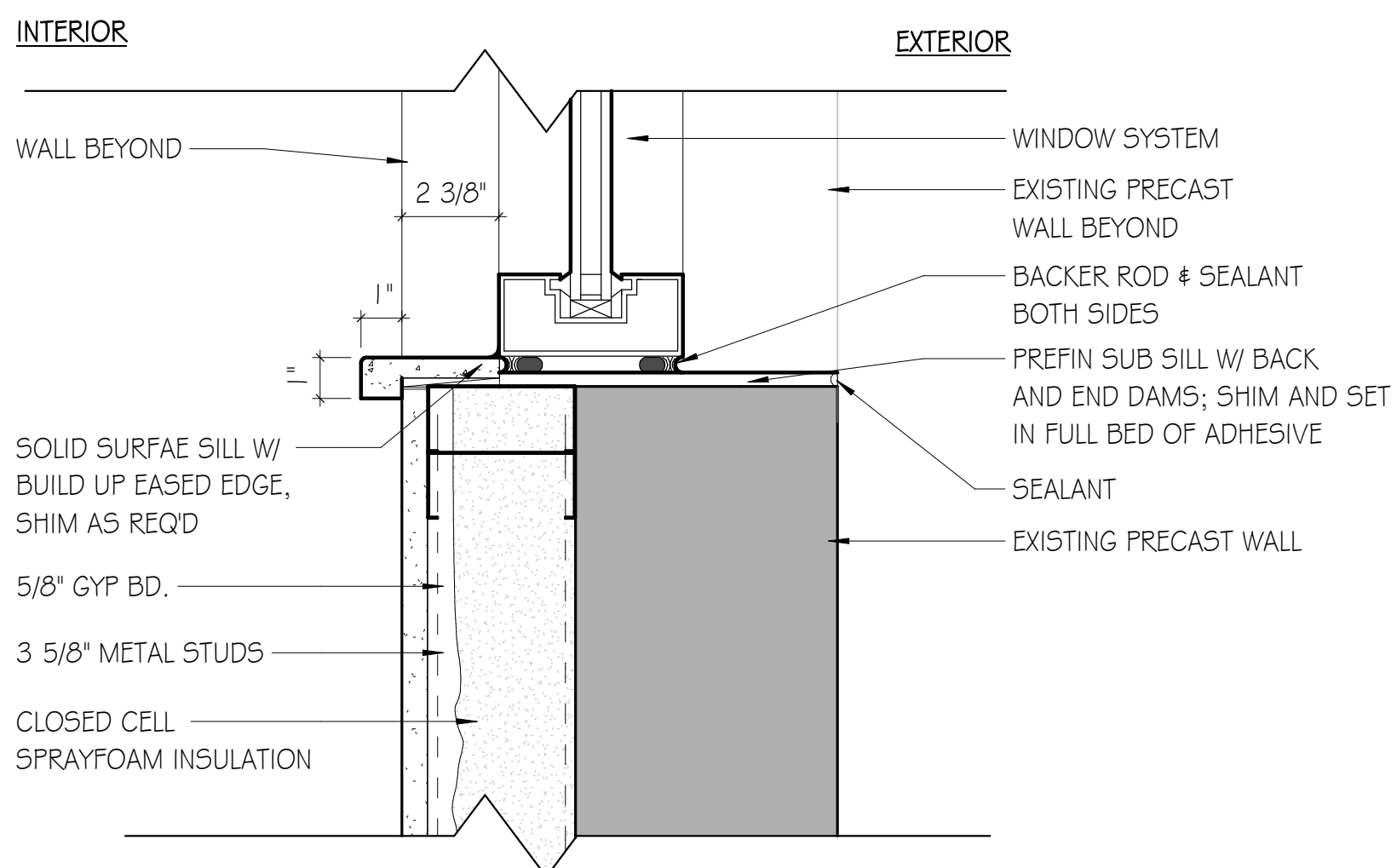
3 EXTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



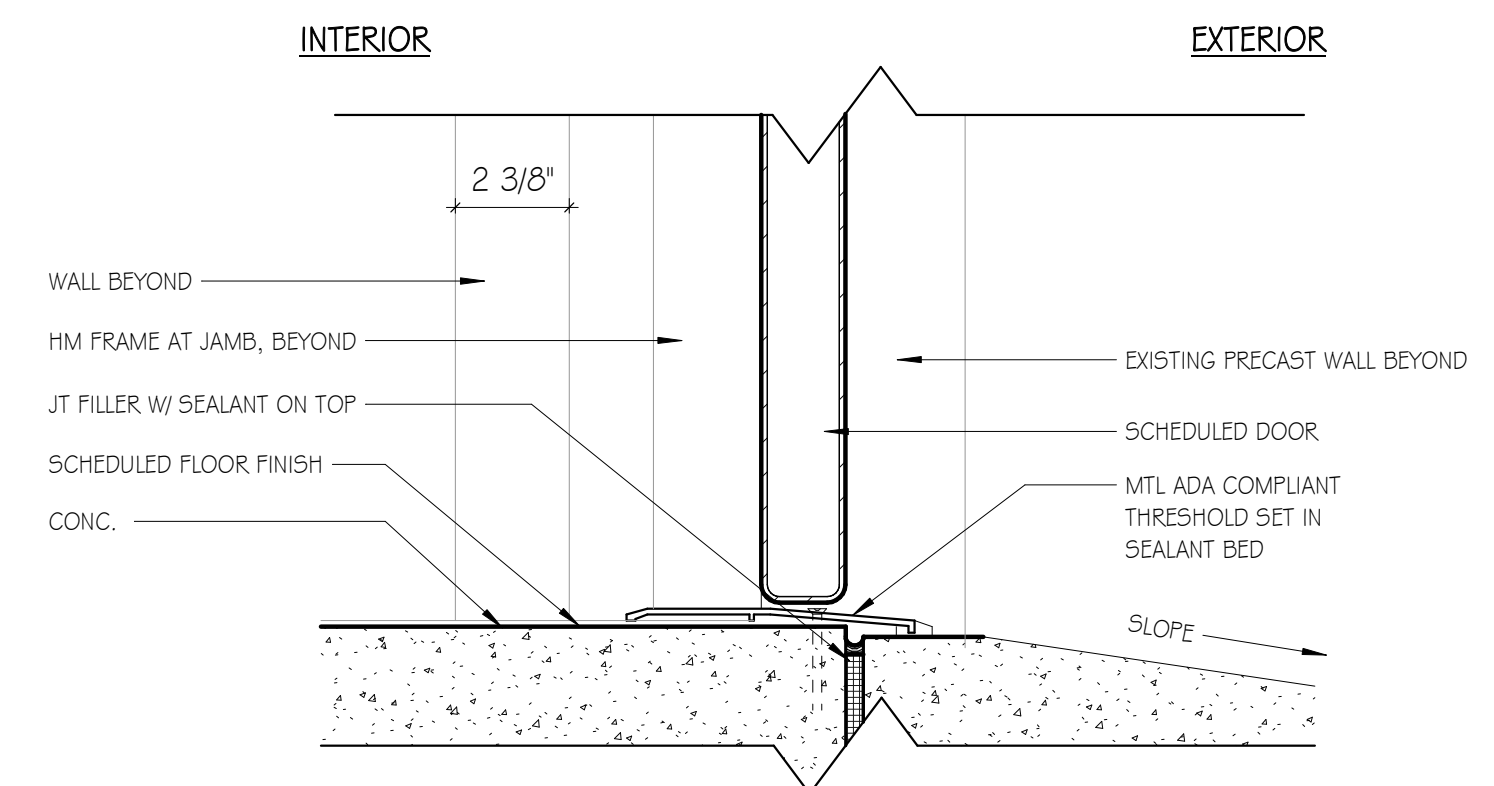
5 EXTERIOR WINDOW JAMB
SCALE: 3" = 1'-0"



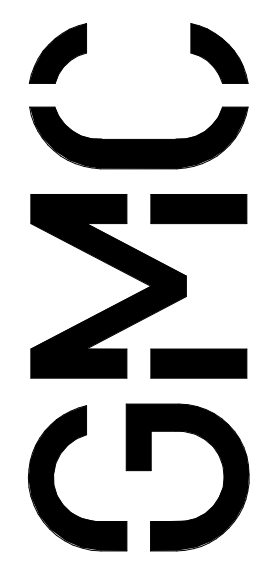
2 EXTERIOR DOOR JAMB
SCALE: 3" = 1'-0"




4 EXTERIOR WINDOW SILL
SCALE: 3" = 1'-0"



1 EXTERIOR DOOR SILL
SCALE: 3" = 1'-0"



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2019 WPCF REHABILITATION ACADEMY CREEK BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION BGWSC Project No. 906 GMC Project # CSAV190007	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ISSUE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>30% SUBMITTAL</td> <td>09.09.2019</td> </tr> <tr> <td>70% SUBMITTAL</td> <td>12.16.2019</td> </tr> <tr> <td>100% SUBMITTAL</td> <td>03.12.2020</td> </tr> <tr> <td>CONSTRUCTION SUBMITTAL</td> <td>06.15.2020</td> </tr> </tbody> </table>	ISSUE	DATE	30% SUBMITTAL	09.09.2019	70% SUBMITTAL	12.16.2019	100% SUBMITTAL	03.12.2020	CONSTRUCTION SUBMITTAL	06.15.2020	PROJECT MANAGER: JCV ENGINEER: MEF DESIGNER: GS DRAWN BY: FN/HKD
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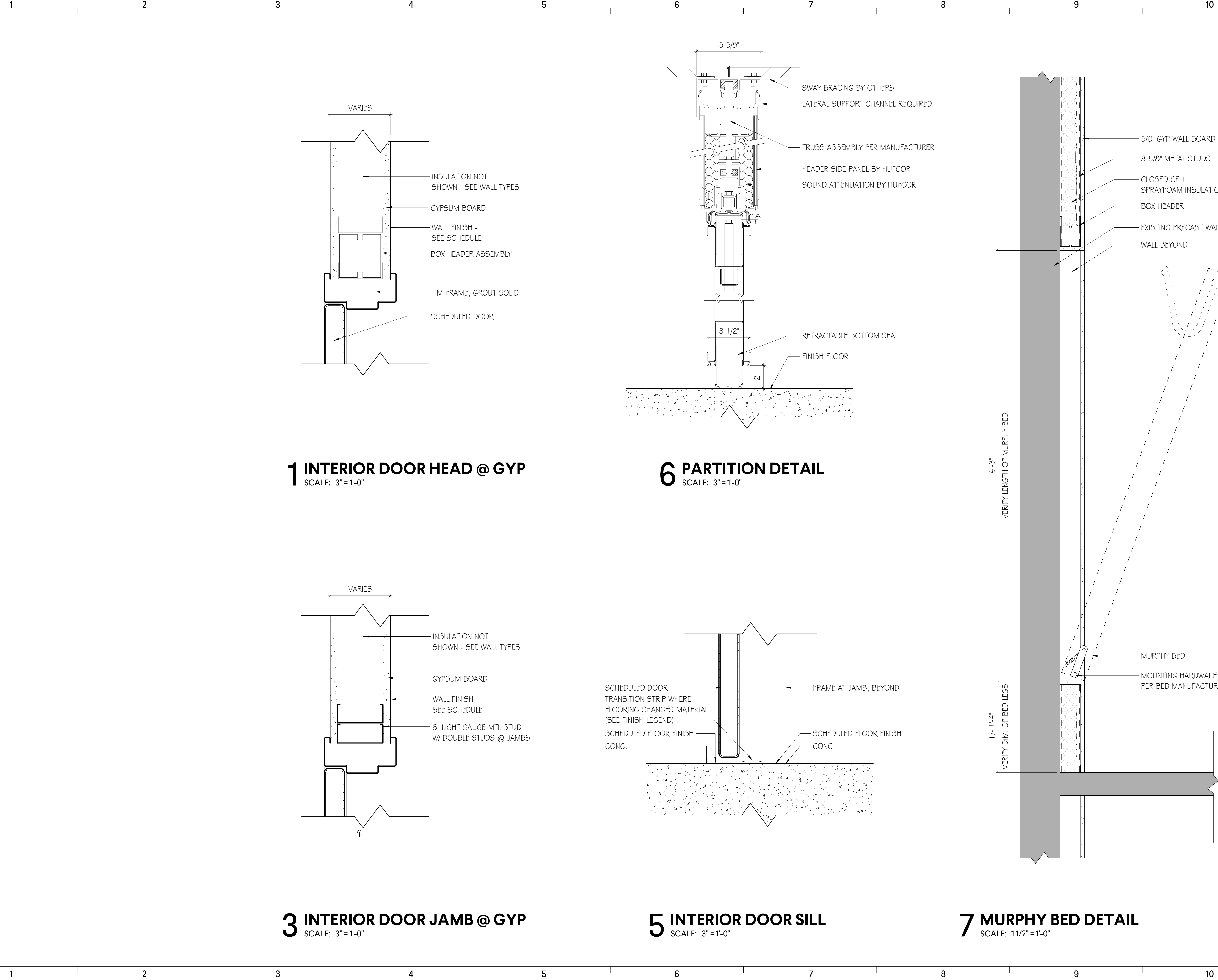
**WINDOW & DOOR
DETAILS**

A6.02

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6/8/2020 12:38:31 PM

A B C D E F G H



1 INTERIOR DOOR HEAD @ GYP
SCALE: 3" = 1'-0"

6 PARTITION DETAIL
SCALE: 3" = 1'-0"

3 INTERIOR DOOR JAMB @ GYP
SCALE: 3" = 1'-0"

5 INTERIOR DOOR SILL
SCALE: 3" = 1'-0"

7 MURPHY BED DETAIL
SCALE: 1 1/2" = 1'-0"

GMC

2019 WPCF REHABILITATION
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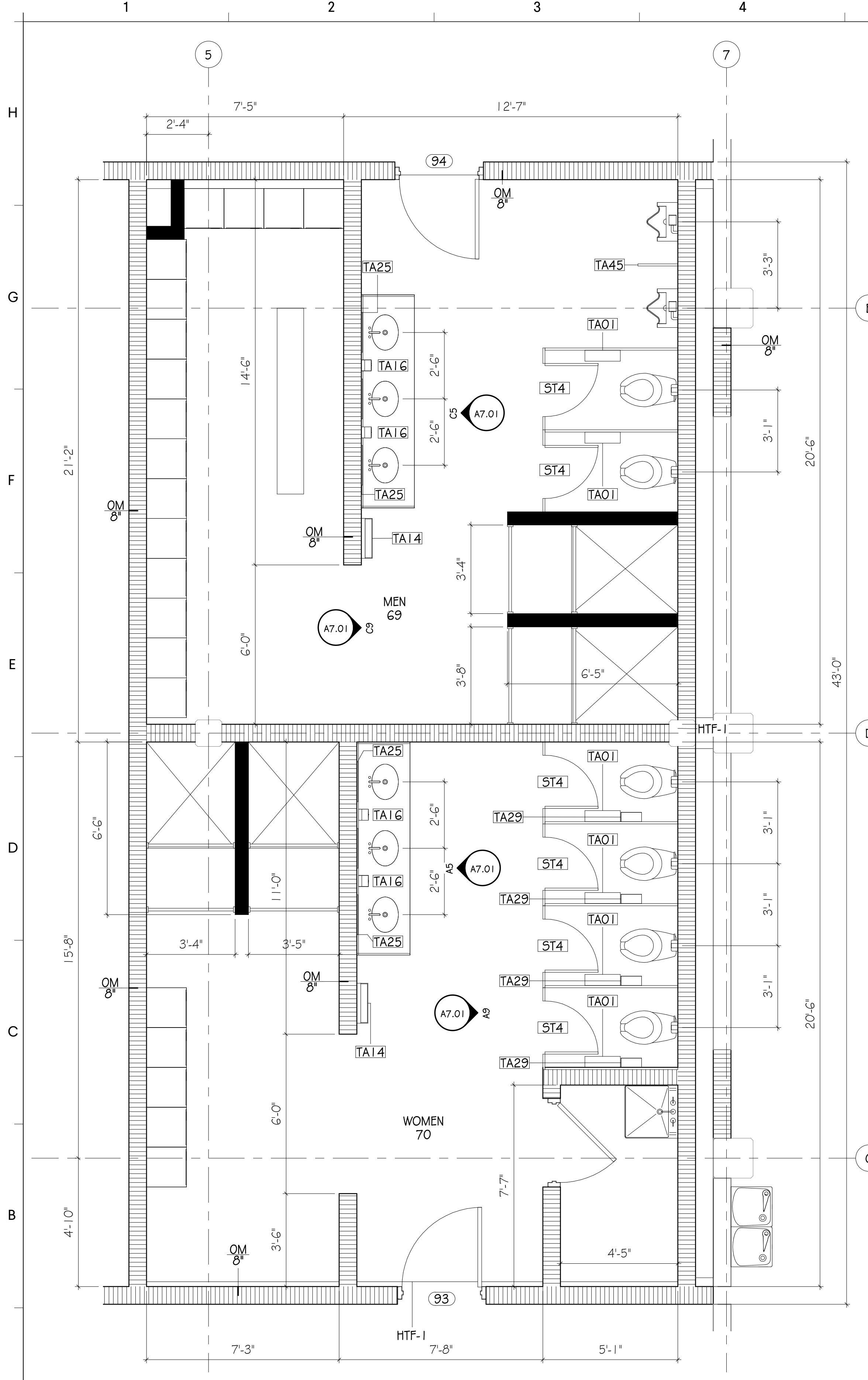
PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
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REGISTERED ARCHITECT
AMY F. BELT
RA014416

INTERIOR DETAILS

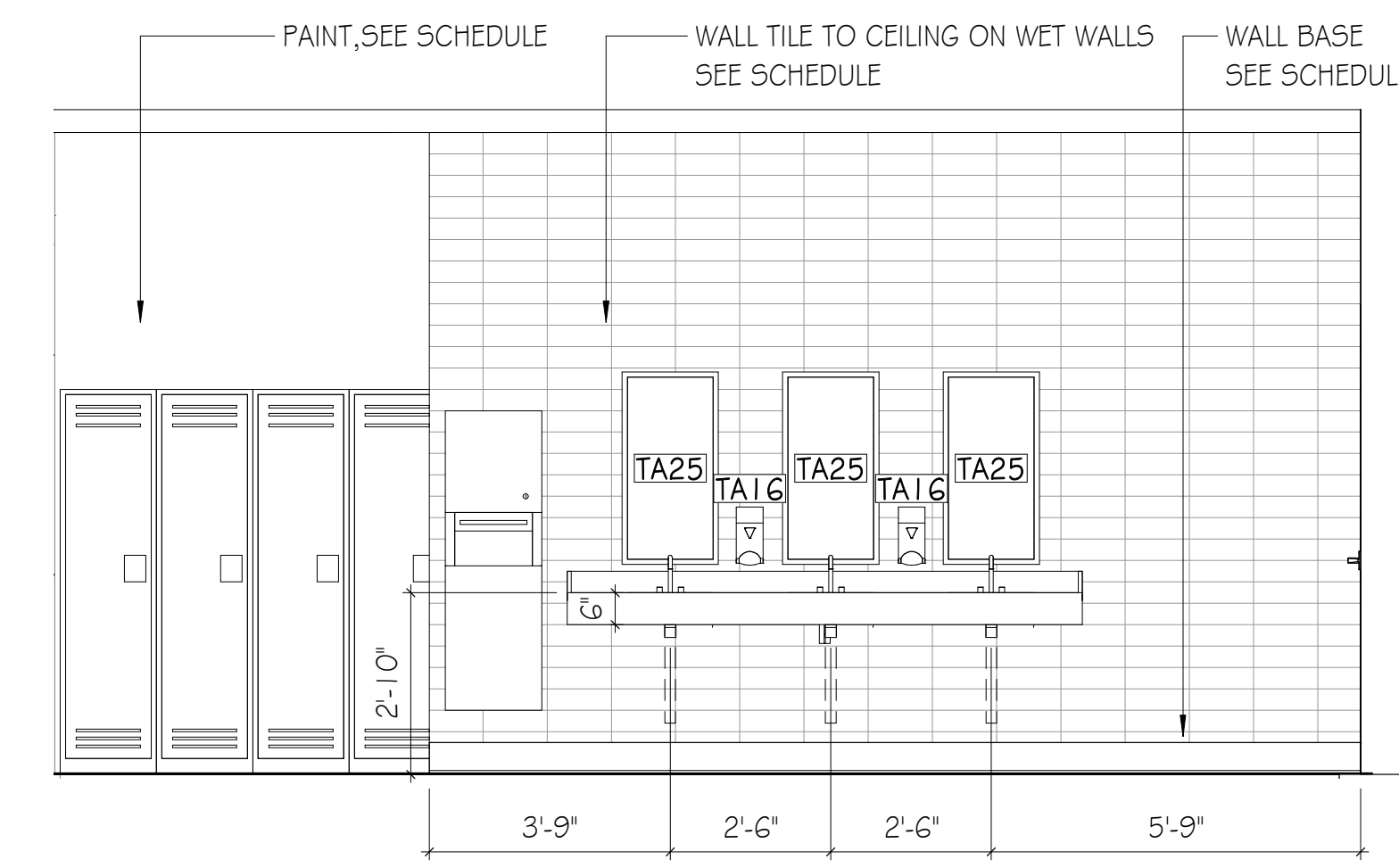
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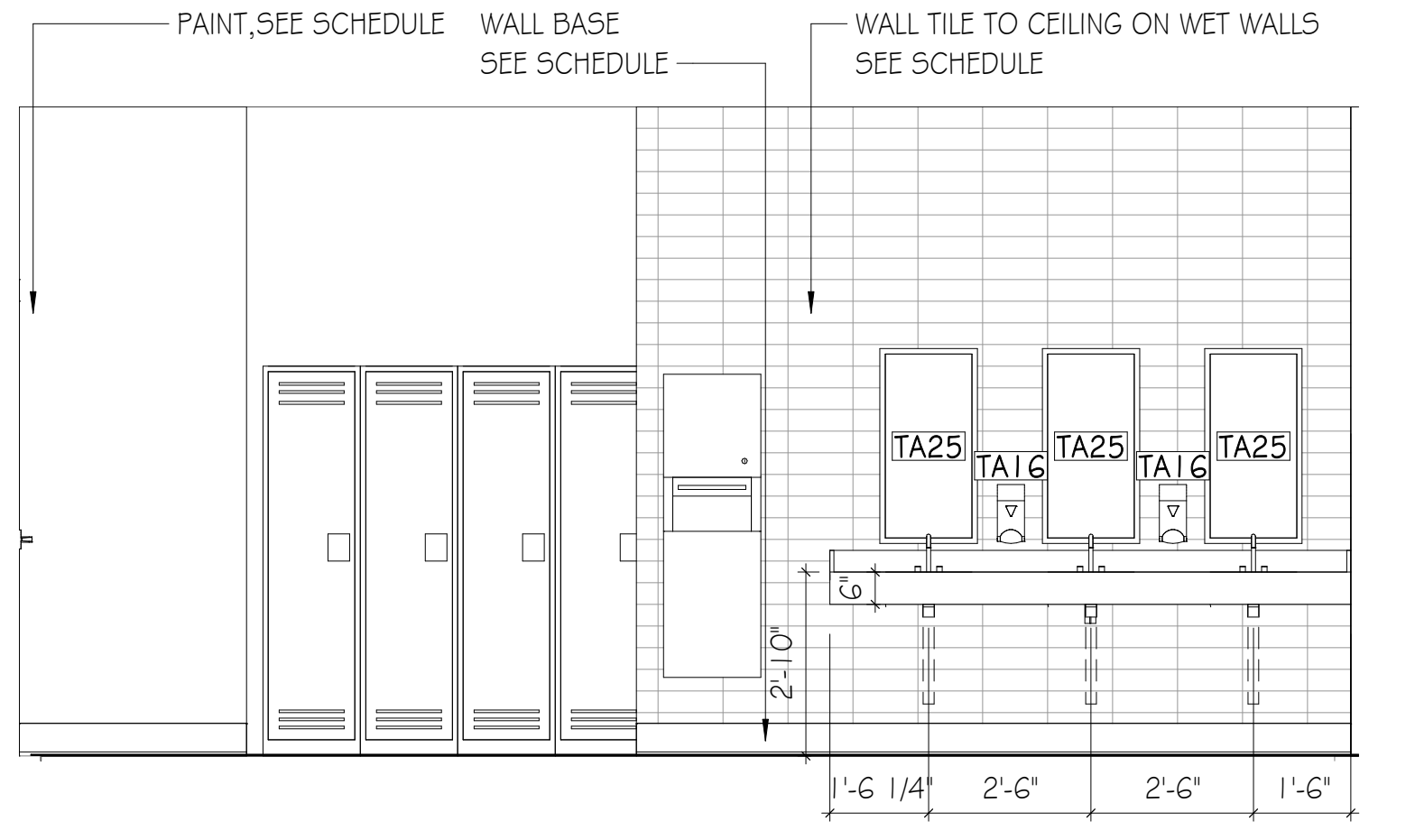


A3 ENLARGED RESTROOM PLAN
SCALE: 3/8" = 1'-0"

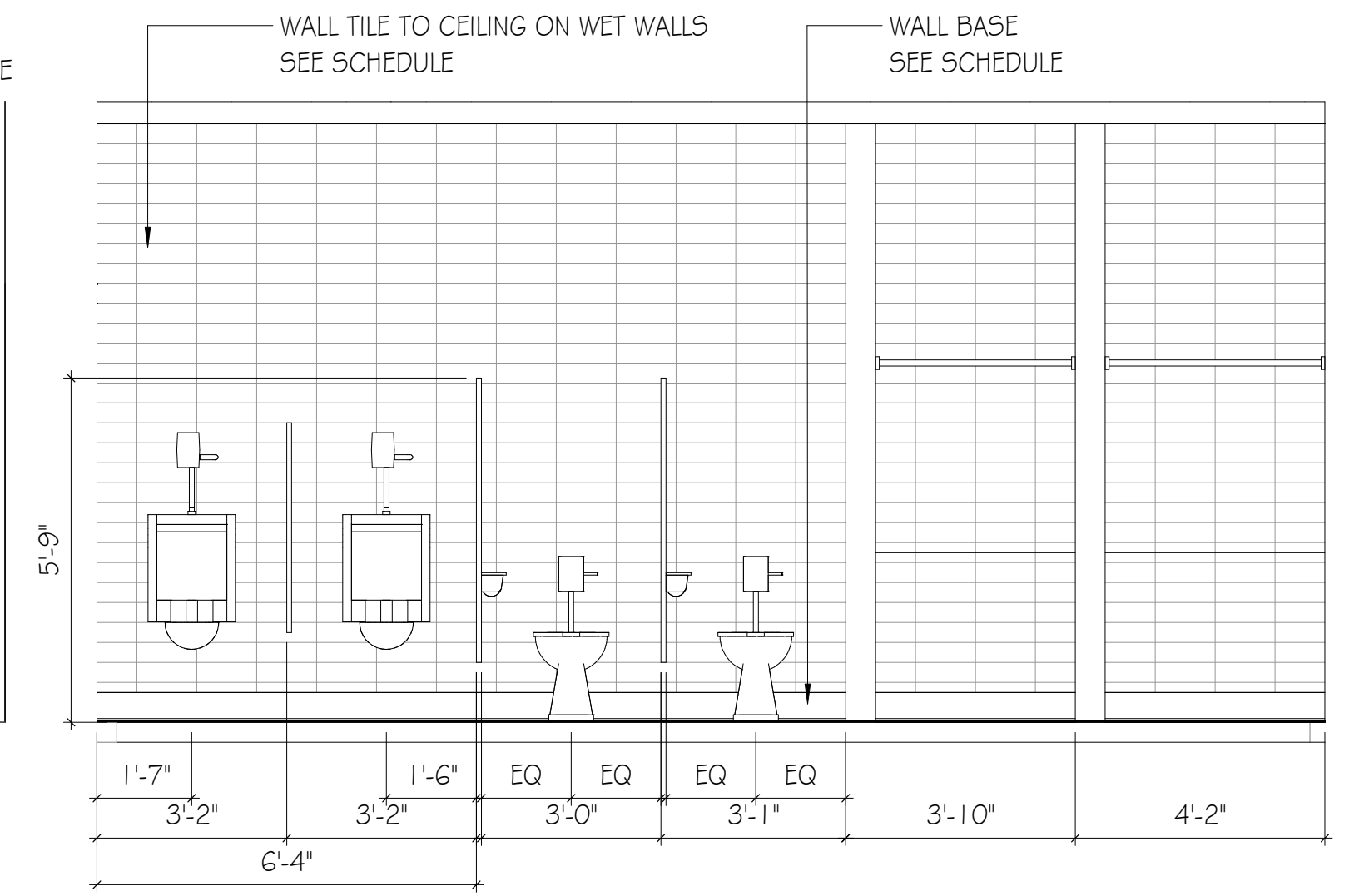
TOILET ACCESSORIES SCHEDULE	
ACCESSORY	DESCRIPTION
TA01	DOUBLE TOILET TISSUE DISPENSER
TA14	DISPENSER RECEPTACLE COMBINATION UNIT
TA16	WALL MOUNTED SOAP DISPENSER - AUTOMATIC
TA22	42" HORIZONTAL GRAB BAR
TA25	FRAMED MIRROR
TA29	SANITARY NAPKIN RECEPTACLE
TA33	EXTRA HEAVY DUTY SHOWER CURTAIN ROD
TA45	URINAL PARTITION SCREEN
TA58	UNDERLAVATORY GUARD



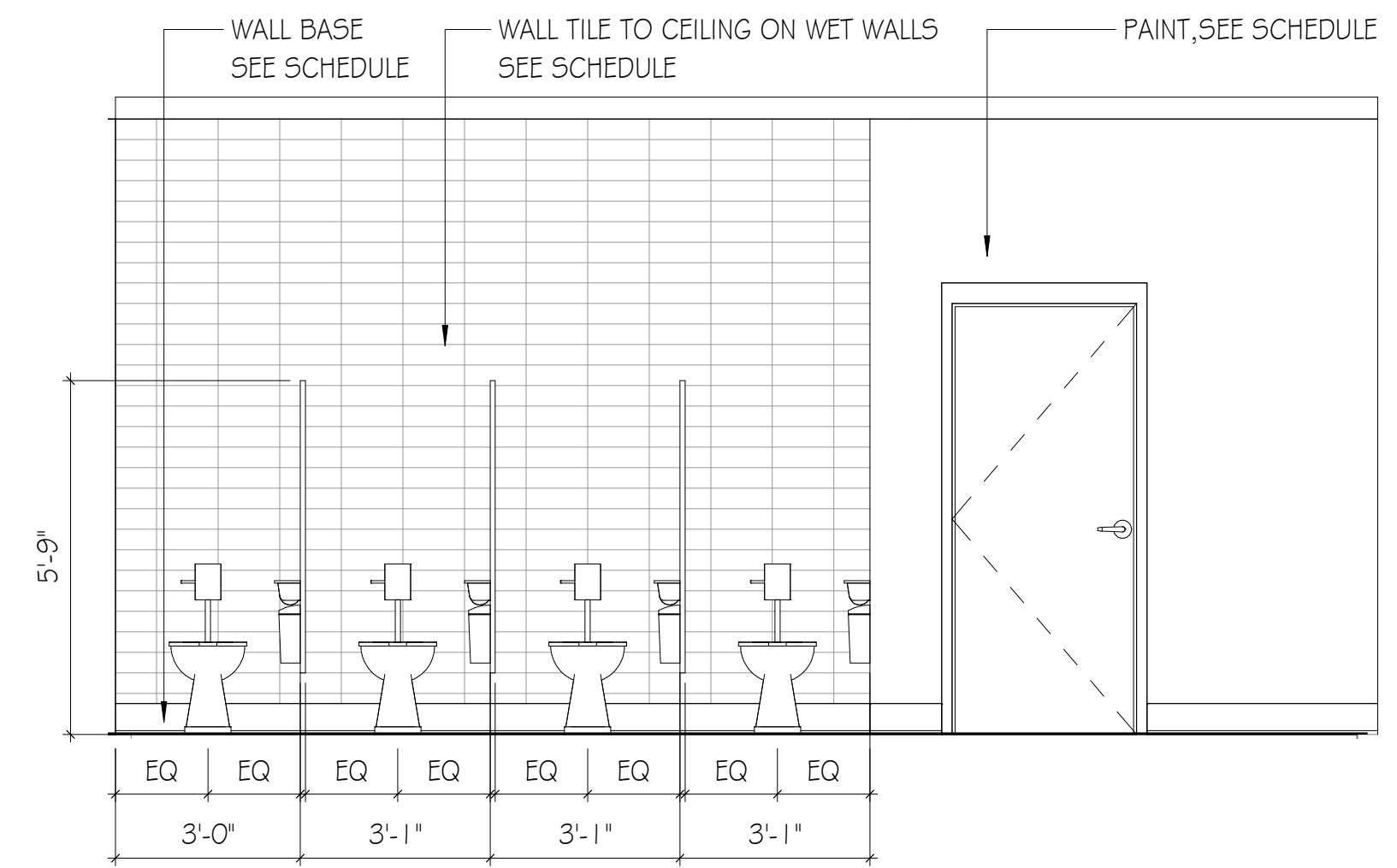
A5 WOMEN RESTROOM
SCALE: 3/8" = 1'-0"



A9 WOMEN RESTROOM
SCALE: 3/8" = 1'-0"

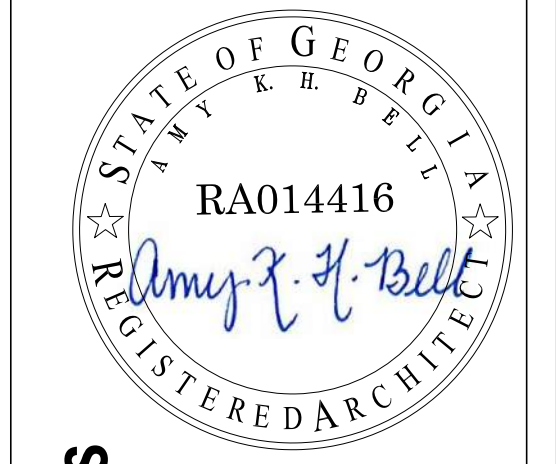


C5 MEN RESTROOM
SCALE: 3/8" = 1'-0"



C9 MEN RESTROOM
SCALE: 3/8" = 1'-0"

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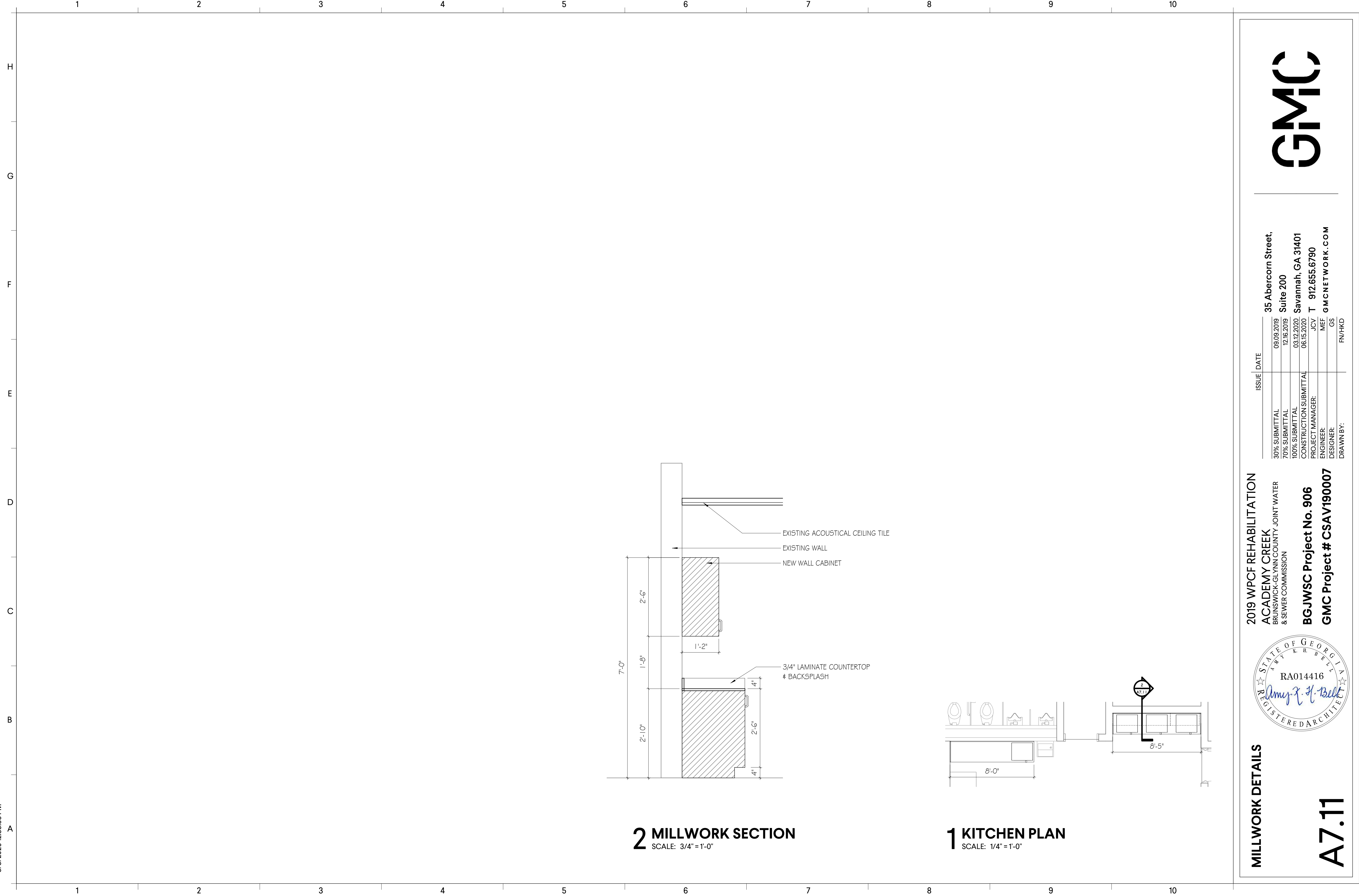
INTERIOR ELEVATIONS
A7.01

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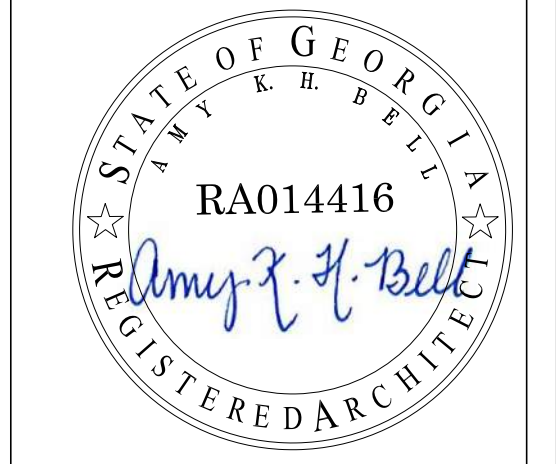


2 MILLWORK SECTION
SCALE: 3/4" = 1'-0"

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

MILLWORK DETAILS

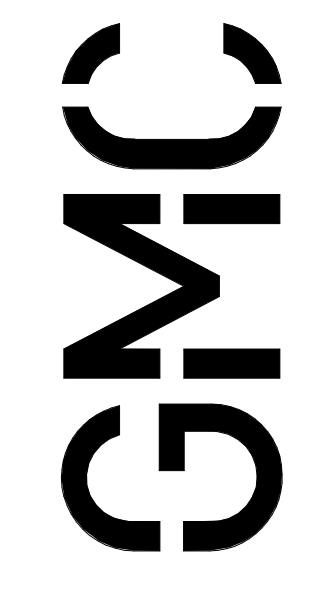
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ROOM FINISH SCHEDULE					
ROOM #	ROOM NAME	FLOOR	BASE	WALL	COMMENTS
16	STOR	QT-1	QTB-1	PT-1	
17	OFFICE	CPT-1	RB-1	PT-1	
18	STOR	QT-1	QTB-1	PT-1	
19	WATER LAB BACK-UP	QT-1	QTB-1	PT-1	
31	COMMON WORKSPACE	SC-1		PT-1	
32	OFFICE	CPT-1	RB-1	PT-1	
33	OFFICE	CPT-1	RB-1	PT-1	
34	OFFICE	CPT-1	RB-1	PT-1	
35	OFFICE	CPT-1	RB-1	PT-1	
36	OFFICE	CPT-1	RB-1	PT-1	
37	OFFICE	CPT-1	RB-1	PT-1	
46	HVAC STOR	SC-1		PT-1	
47	IT OFFICE	ADT-1	RB-2	PT-1	
48	SCADA SERVER	ADT-1	RB-2	PT-1	
49	SCADA OFFICE	ADT-1	RB-2	PT-1	
50	ELECTRICAL ROOM	SC-1		PT-1	
60	STORAGE	SC-1		PT-1	
61	STORAGE	SC-1		PT-1	
63	EMERGENCY OPERATIONS	CPT-1	RB-1	PT-1	
64	TRAINING	CPT-1	RB-1	PT-1	
67	STORAGE	SC-1		PT-1	
68	STORAGE	SC-1		PT-1	
69	MEN	HFT-1	HTB-1	PT-1	
70	WOMEN	HFT-1	HTB-1	PT-1	
75	CORRIDOR	EX-1			
76	CORRIDOR	EX-1			
78	OFFICE	CPT-1	RB-1	PT-1	
79	WASTEWATER PRIMARY	QT-1	QTB-1	PT-1	
82	UNISEX	EX-1			

ROOM FINISH SCHEDULE					
ROOM #	ROOM NAME	FLOOR	BASE	WALL	COMMENTS
83	MEN	EX-1			
85	OFFICE	EX-1			
86	WORKSPACE	EX-1			
87	OFFICE	EX-1			
90	UTILITY	EX-1			
91	STAIR	EX-1			
92	CORRIDOR	SC-1		PT-1	
93	RECEPTION	EX-1			
94	LOADING DOCK	EX-1			
98	GARAGE	EX-1			
101	STORAGE	EX-1			
102	STORAGE	EX-1			
105	IT SERVER	ADT-1	RB-2	PT-1	
106	STORAGE	EX-1			
107	STORAGE	EX-1			
108	OFFICE	EX-1			
109	OFFICE	EX-1			
112	BREAK ROOM	EX-1			
113	CORRIDOR	SC-1		PT-1	

FINISH NOTES

GENERAL:
REFER TO FINISH PLANS AND ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS.

REFER TO INTERIOR FLOOR PATTERN AND FINISH PLANS FOR FLOOR PATTERNS. CONTRACTOR TO NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN.

ALL HOLLOW METAL DOOR AND WINDOW FRAMES TO BE PAINTED XXX, UNLESS OTHERWISE NOTED.

ALL RESILIENT TRANSITION STRIPS, SHALL BE COLOR XXX, UNLESS OTHERWISE NOTED ON DETAIL.

REFER TO RCP FOR ACCENT PAINT COLOR LOCATIONS.

WHERE HARD FLOOR TILE IS USED, CENTER PATTERN IN ROOM. ALIGN VERTICAL GROUT LINES OF WALL TILE THOSE IN FLOOR TILE.

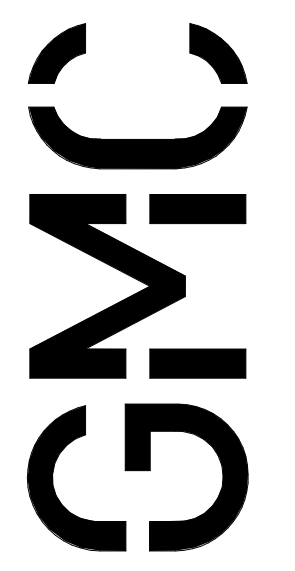
GROUT COLORS TO BE DETERMINED DURING CONSTRUCTION.

INSTALL 3MM EDGE BAND ON ALL PLASTIC LAMINATE COUNTERTOPS TO MATCH COUNTERTOP LAMINATE COLOR. GC TO ALLOW ADEQUATE TIME FOR SPECIAL PRODUCTION RUN.

ALL ACCESS PANELS AND GRILLES TO BE PAINTED WALL OR CEILING COLOR, UNLESS OTHERWISE NOTED.

ALL WINDOWS TO HAVE XXX SILL, UNLESS OTHERWISE NOTED.

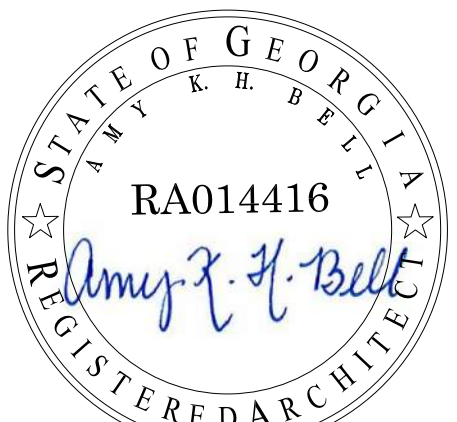
FINISH LEGEND														
FLOOR			FLOOR			BASE			WALL			MISC		
NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION
CPT-1	CARPET	MANUFACTURER: STYLE NAME: COLOR: SIZE: INSTALLATION: LOCATION:	ADT-1	ANTI-DISSIPATING TILE	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	QTB-1	QUARRY TILE BASE	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	HTW-#	HARD WALL TILE	MANUFACTURER: STYLE NAME: COLOR: INSTALLATION: GROUT: LOCATION:	PL-#	PLASTIC LAMINATE [TYP. FACE]	MANUFACTURER: STYLE NAME: COLOR: LOCATION:
EX-1	EXISTING TO REMAIN	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	RST-#	RUBBER STAIR TREAD & RISERS	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	HTB-1	HARD TILE BASE	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	PNT-1	[GENERAL/MAIN PAINT]	MANUFACTURER: COLOR: LOCATION:	PL-#	PLASTIC LAMINATE [TYP TOP]	MANUFACTURER: STYLE NAME: COLOR: LOCATION:
HTF-1	HARD FLOOR TILE	MANUFACTURER: STYLE NAME: COLOR: SIZE: INSTALLATION: GROUT: LOCATION:	SC-1	SEALED CONCRETE	MANUFACTURER: STYLE NAME: COLOR: LOCATION:	RB-1	RUBBER BASE	MANUFACTURER: STYLE NAME: COLOR: SIZE: INSTALLATION: LOCATION: UNITS	PNT-2	[TRIM PAINT]	MANUFACTURER: COLOR: LOCATION:	SS-#	SOLID SURFACE	MANUFACTURER: COLOR: THICKNESS: LOCATION:
QT-1	QUARRY TILE	MANUFACTURER: STYLE NAME: COLOR: SIZE: INSTALLATION: LOCATION:	STC-#	STAINED CONCRETE	MANUFACTURER: STYLE NAME: COLOR: INSTALLATION: LOCATION: UNITS	RB-2	RUBBER BASE	MANUFACTURER: STYLE NAME: COLOR: SIZE: LOCATION:	PNT-3	[MAIN CEILING/SOFFIT PAINT]	MANUFACTURER: COLOR: LOCATION:	TP-#	TOILET PARTITIONS	MANUFACTURER: STYLE NAME: COLOR: LOCATION:
PC-#	POLISHED CONCRETE	MANUFACTURER: STYLE NAME: COLOR: LOCATION:	VCT-#	VINYL COMPOSITION TILE	MANUFACTURER: STYLE NAME: COLOR: SIZE: INSTALLATION: LOCATION:				WC-1	WALL COVERING	MANUFACTURER: STYLE NAME: COLOR: LOCATION:	WD-#	WOOD	MANUFACTURER: STYLE NAME: COLOR: LOCATION:
												WF-#	WINDOW FILM	MANUFACTURER: STYLE NAME: COLOR: LOCATION:



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2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

ISSUE DATE: 09.09.2019
 30% SUBMITTAL: 12.16.2019
 70% SUBMITTAL: 03.12.2020
 100% SUBMITTAL: 06.15.2020
 PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD



FINISH LEGEND AND SCHEDULE

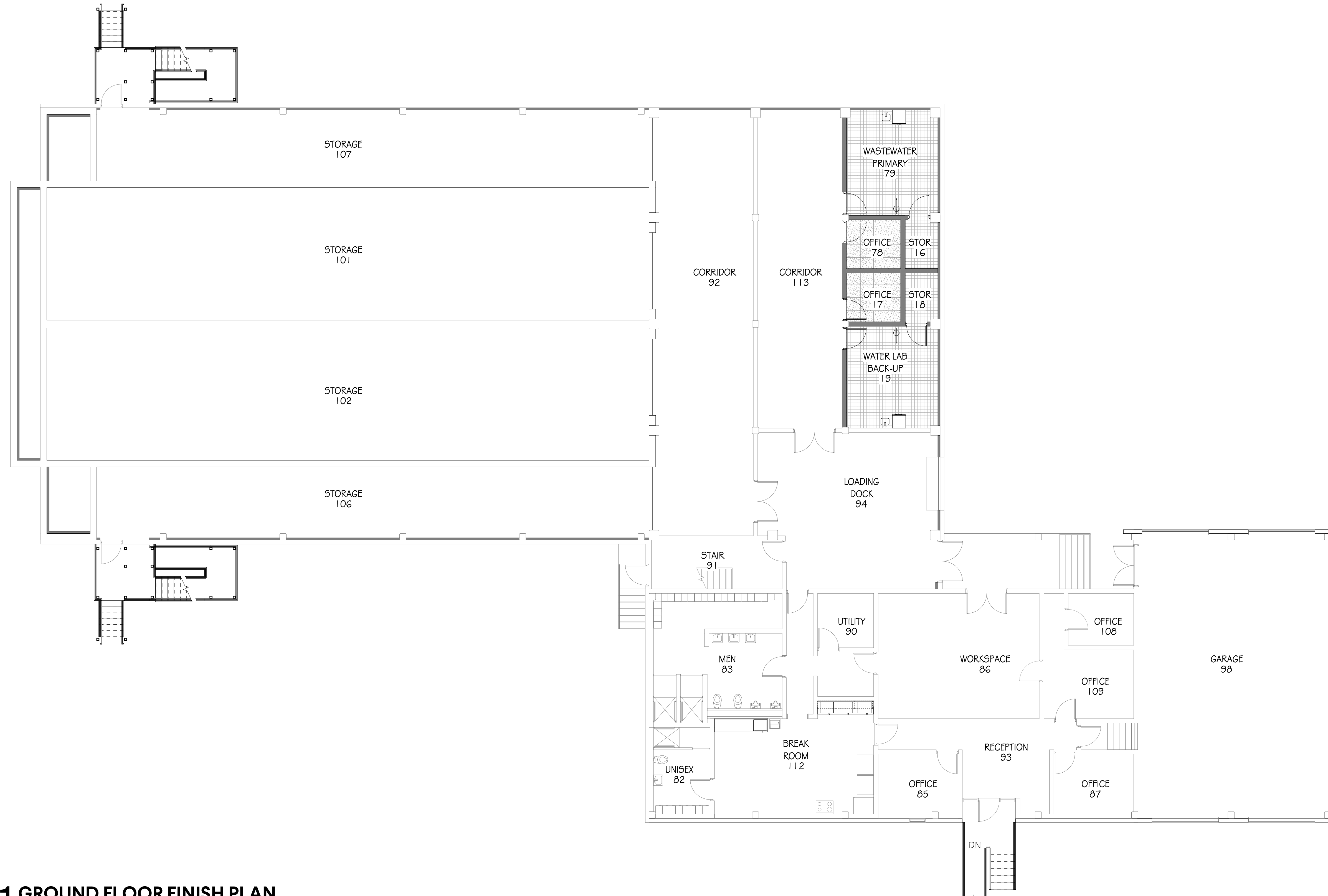
A8.01

6/8/2020 12:38:37 PM

6/8/2020 12:38:39 PM

1 GROUND FLOOR FINISH PLAN

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



GROUND FLOOR FINISH PLAN

2019 WPCF REHABILITATION

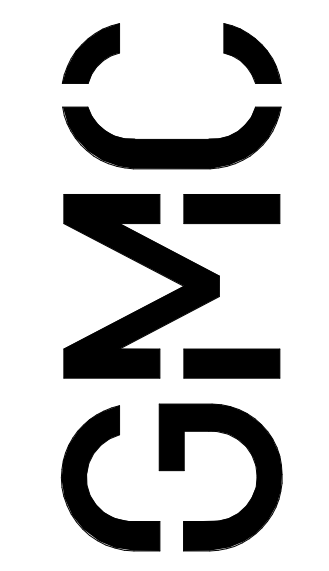
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
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A8.02



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CONSTRUCTION SUBMITTAL	06.15.2020

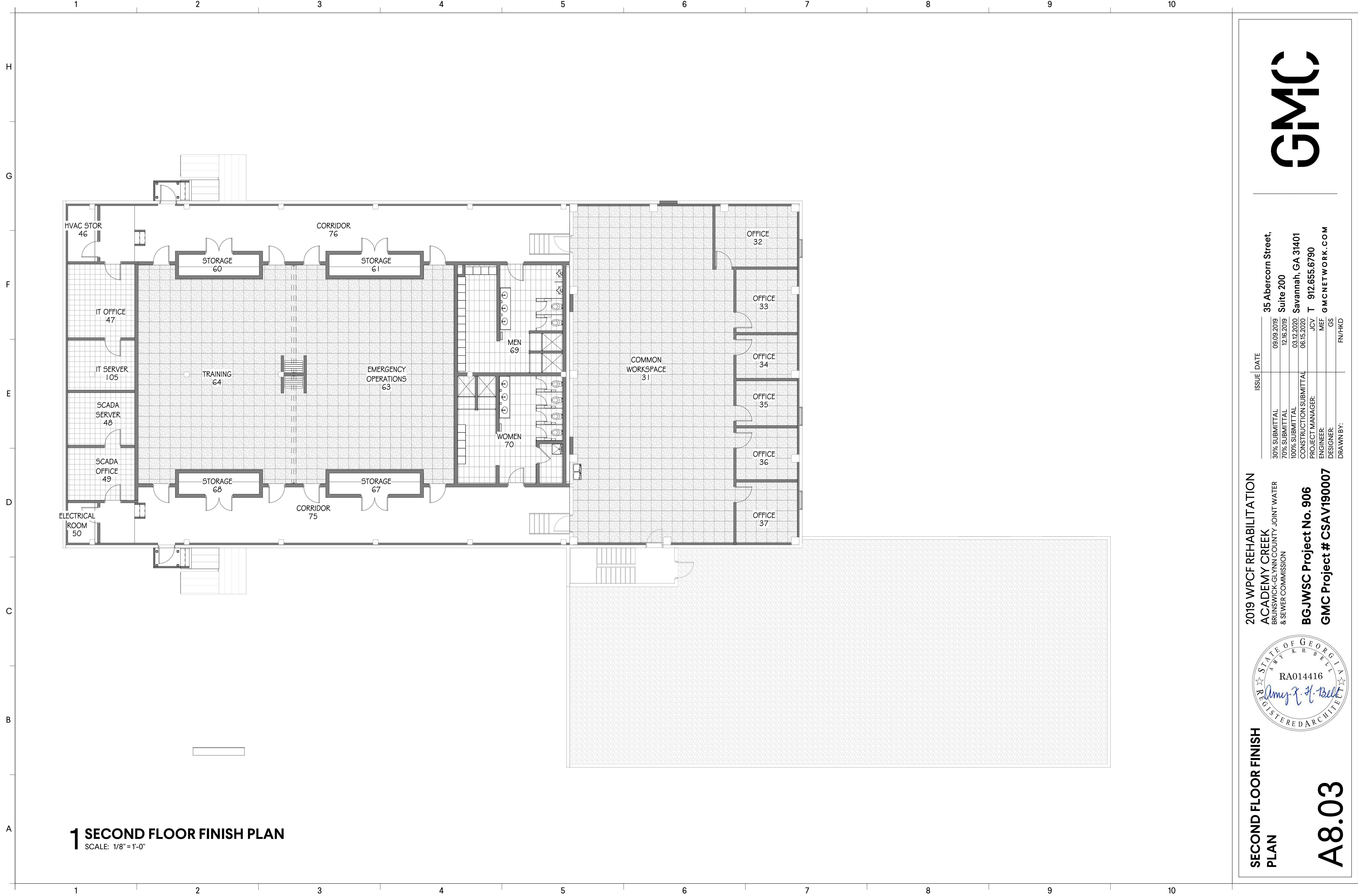
PROJECT MANAGER: JCV

ENGINEER: MEF

DESIGNER: GS

DRAWN BY: FN/HKD

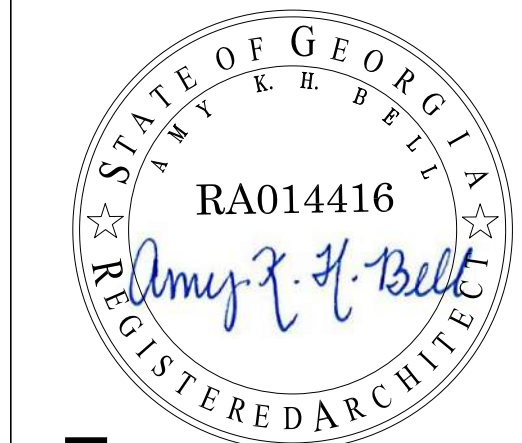
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1 SECOND FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

SECOND FLOOR FINISH PLAN

A8.03

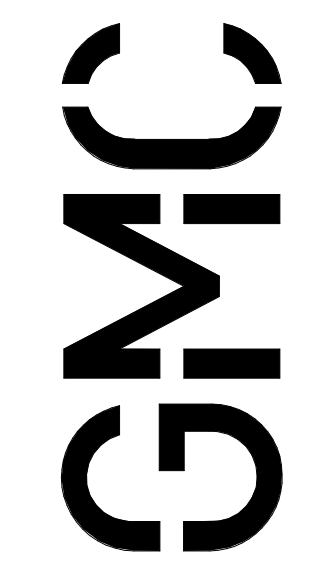


2019 WPCF REHABILITATION
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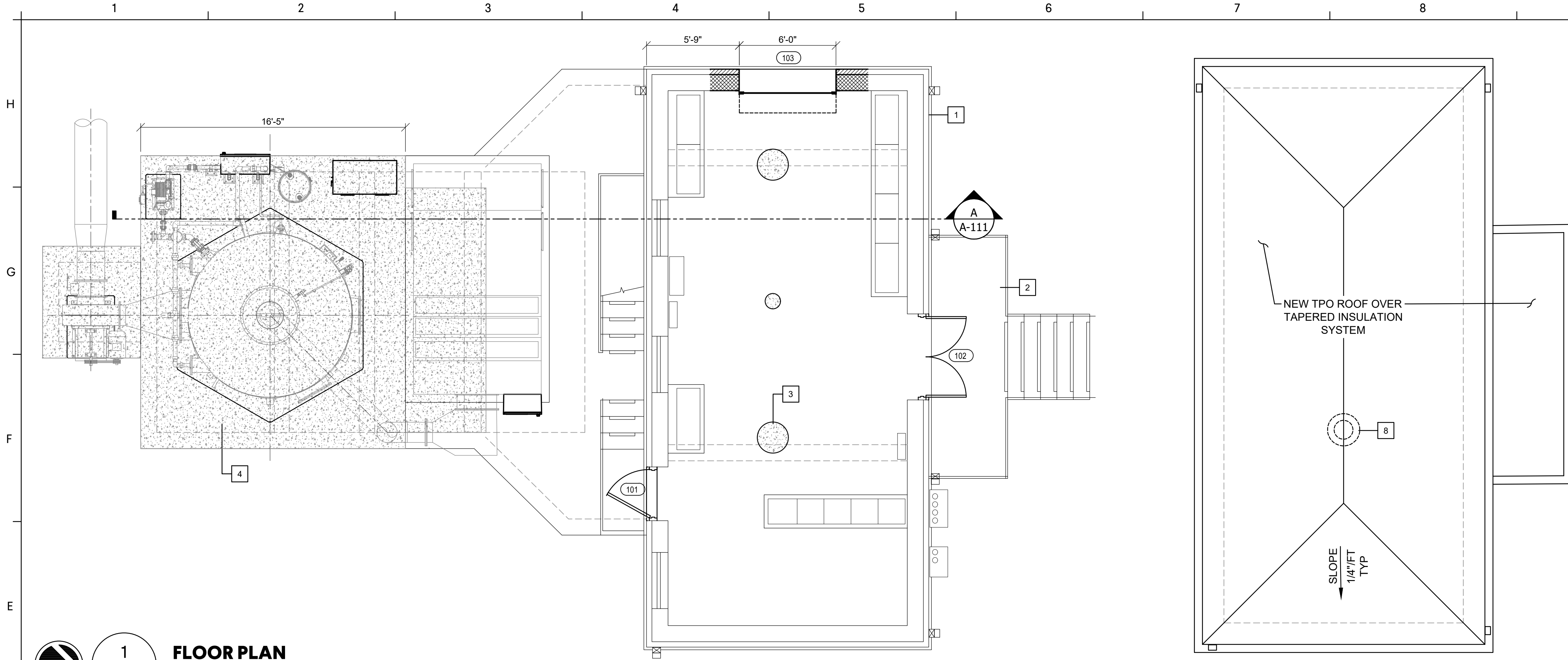
ISSUE	DATE
30% SUBMITTAL	09.09.2019
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CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: FN/HKD

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DRAWING FILE: \\MCH\Non-Available\Projects - Dwg\CSAV190007\BGJWSC\WPC\Rehab\0 DWG\1 CAD\01 BID DRAWINGS\08 ARCHITECTURAL\A-111.dwg
PLOTTED: Jun 05, 2020 - 2:05pm

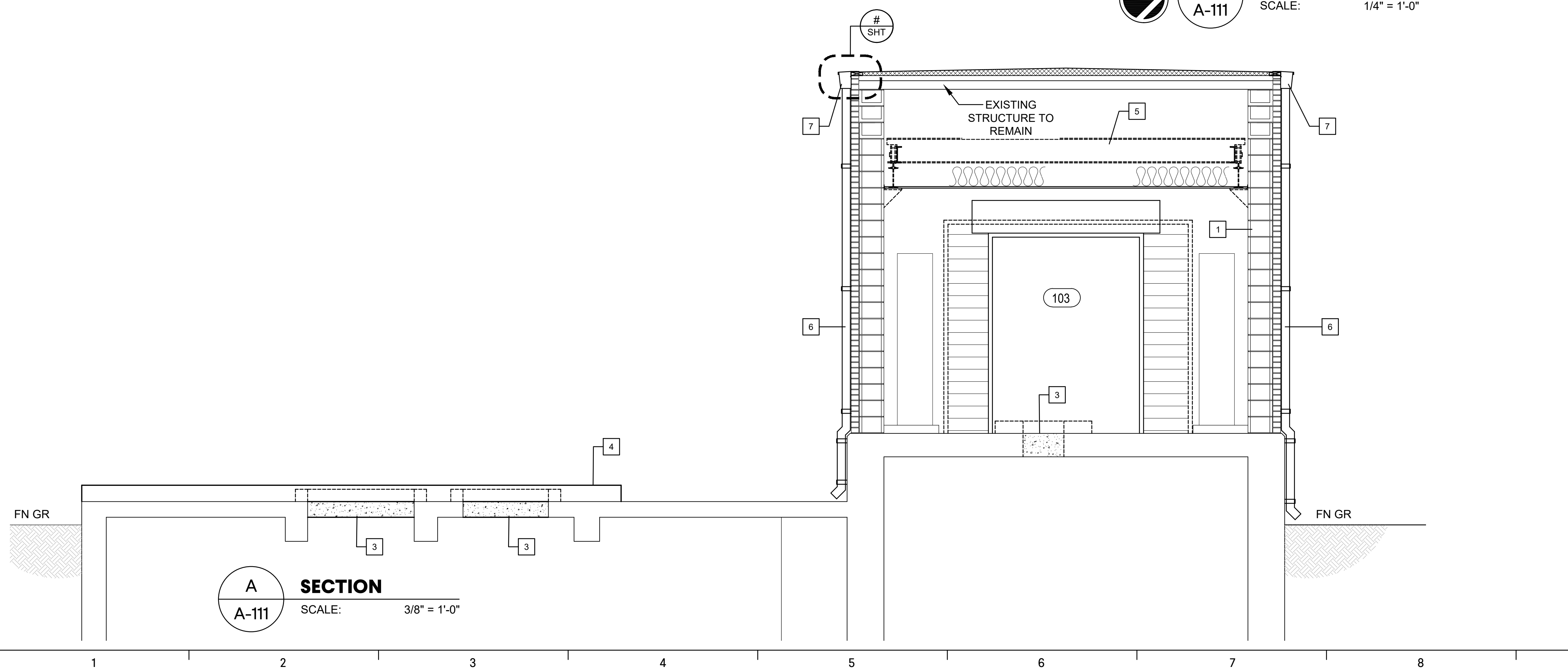


KEY NOTES: #

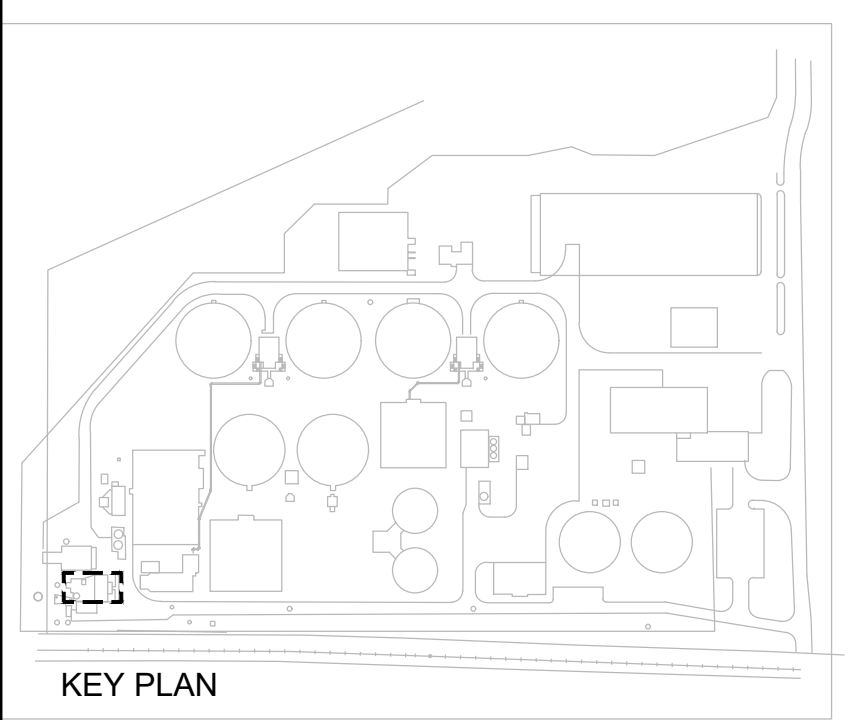
1. WATER BLAST CLEAN EXTERIOR MASONRY & CONCRETE BUILDING EXTERIOR AND INTERIOR.
2. BLAST CLEAN AND PAINT EXTERIOR AND INTERIOR FERROUS METAL.
3. REPAIR FLOOR OPENINGS - SEE STRUCTURAL DRAWINGS.
4. EQUIPMENT PAD FOR PROCESS EQUIPMENT - SEE STRUCTURAL DRAWINGS.
5. REMOVE BRIDGE CRANE AND SUPPORT GUSSETS. GRIND SMOOTH W/ WALL.
6. REMOVE AND REPLACE EXISTING DOWNSPOUTS W/ 4"X6" ALUMINUM DOWNSPOUTS. SECURE WITH STRAPS @ 5'-0" O.C.
7. NEW 6"X8" ALUMINUM GUTTER.
8. REMOVE EXISTING FAN & CURB.

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

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



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



**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



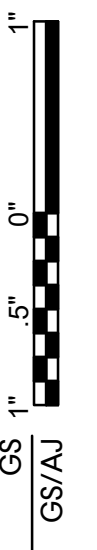
**MCC BUILDING
MODIFICATION PLAN
& SECTION**

A-111

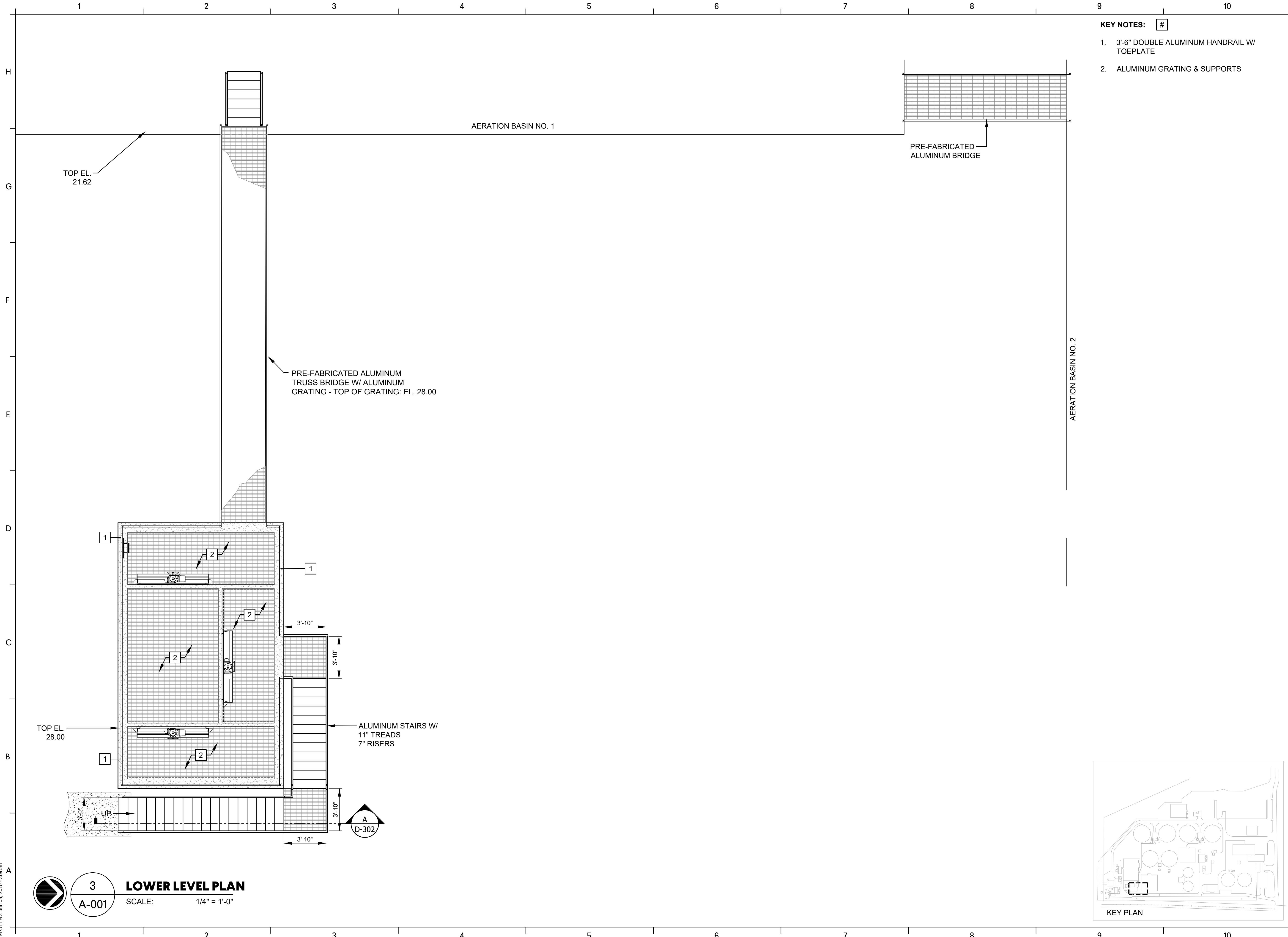
ISSUE DATE

30% SUBMITTAL	09.09.2019
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CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
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DRAWN BY:	GS/AJ

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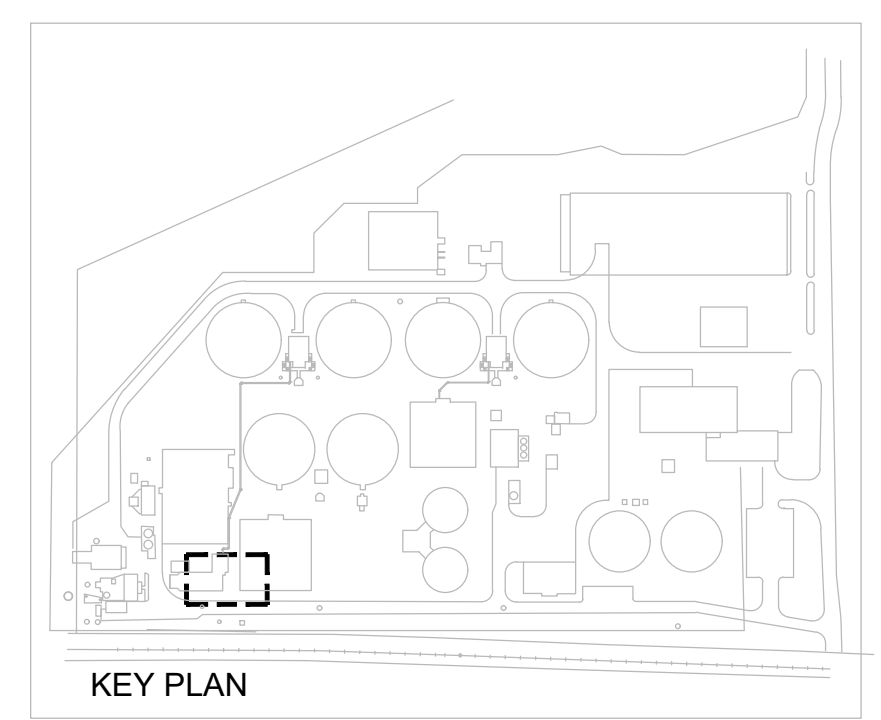
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PLOTTED: Jun 05, 2020 - 2:04pm



- KEY NOTES:** #
- 3'-6" DOUBLE ALUMINUM HANDRAIL W/ TOEPLATE
 - ALUMINUM GRATING & SUPPORTS

AERATION BASIN NO. 2

3 LOWER LEVEL PLAN
A-001 SCALE: 1/4" = 1'-0"



2019 WPCF REHABILITATION
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BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJ\WSC Project No. 906
GMC Project #CSAV190007

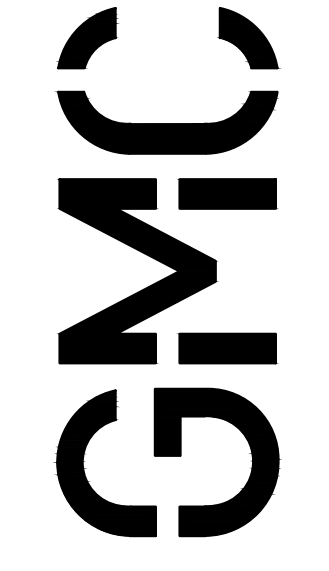


MAIN SPLITTER
UPPER LEVEL PLAN

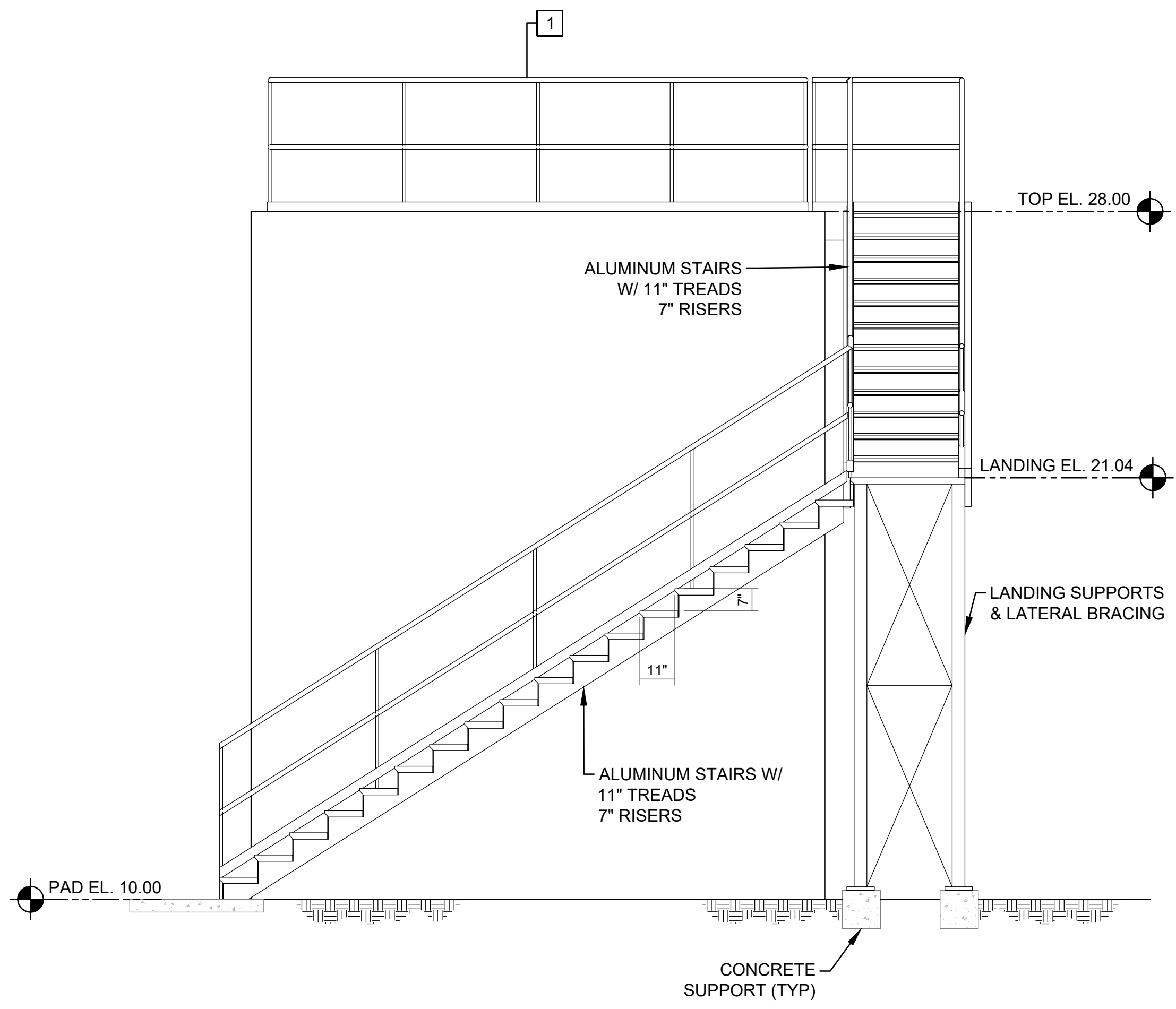
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ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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DRAWING FILE: \\A\CIVIL\Non-Augusta Projects - Dwg\CSAV190007\BGJ\WSC\WPC Rehab\01 BID DRAWINGS\08 ARCHITECTURAL\A-301.dwg
PLOTTED: Jun 05, 2020 - 2:04pm



A SECTION
A-301 SCALE: 3/8" = 1'-0"

KEY NOTES: #

- 3'-6" DOUBLE ALUMINUM HANDRAIL W/ TOEPLATE

MAIN SPLITTER SECTIONS

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

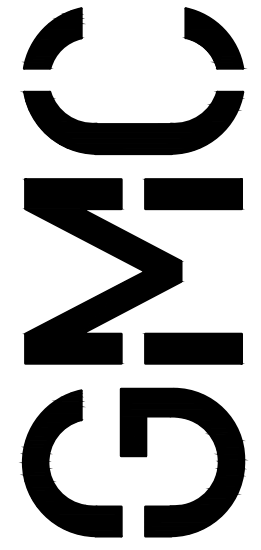
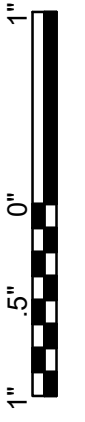


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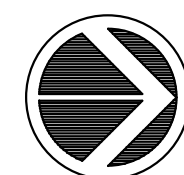
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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



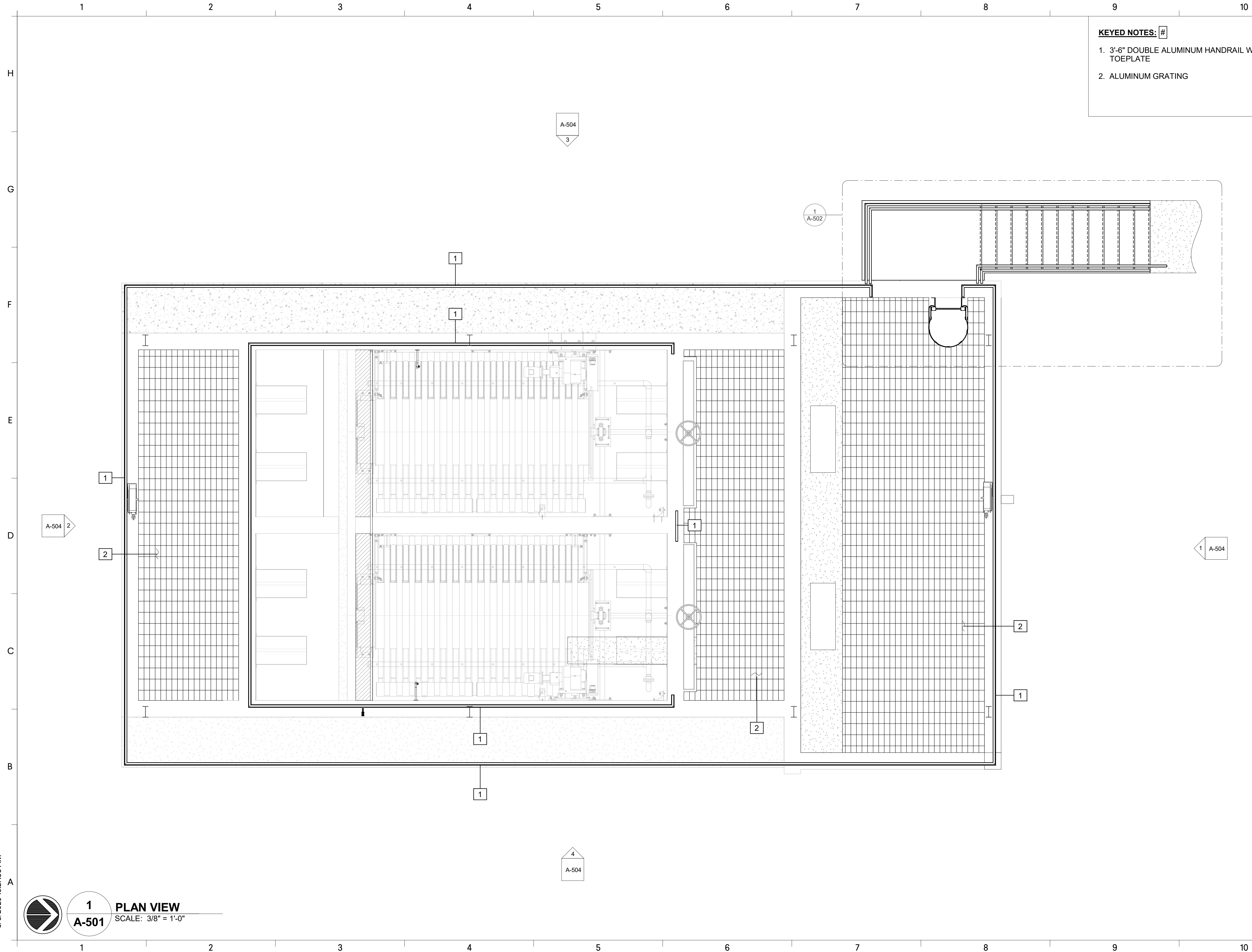
A-302

6/5/2020 10:27:38 AM



1
A-501

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



KEYED NOTES: #

- 1. 3'-6" DOUBLE ALUMINUM HANDRAIL WITH TOEPLATE
- 2. ALUMINUM GRATING

**FILTER - HANDRAIL &
GRATING**

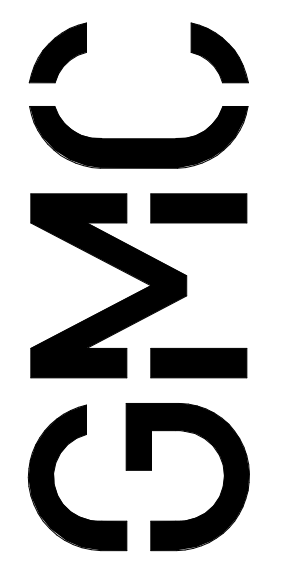
A-501

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION
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 GMC Project # CSAV190007

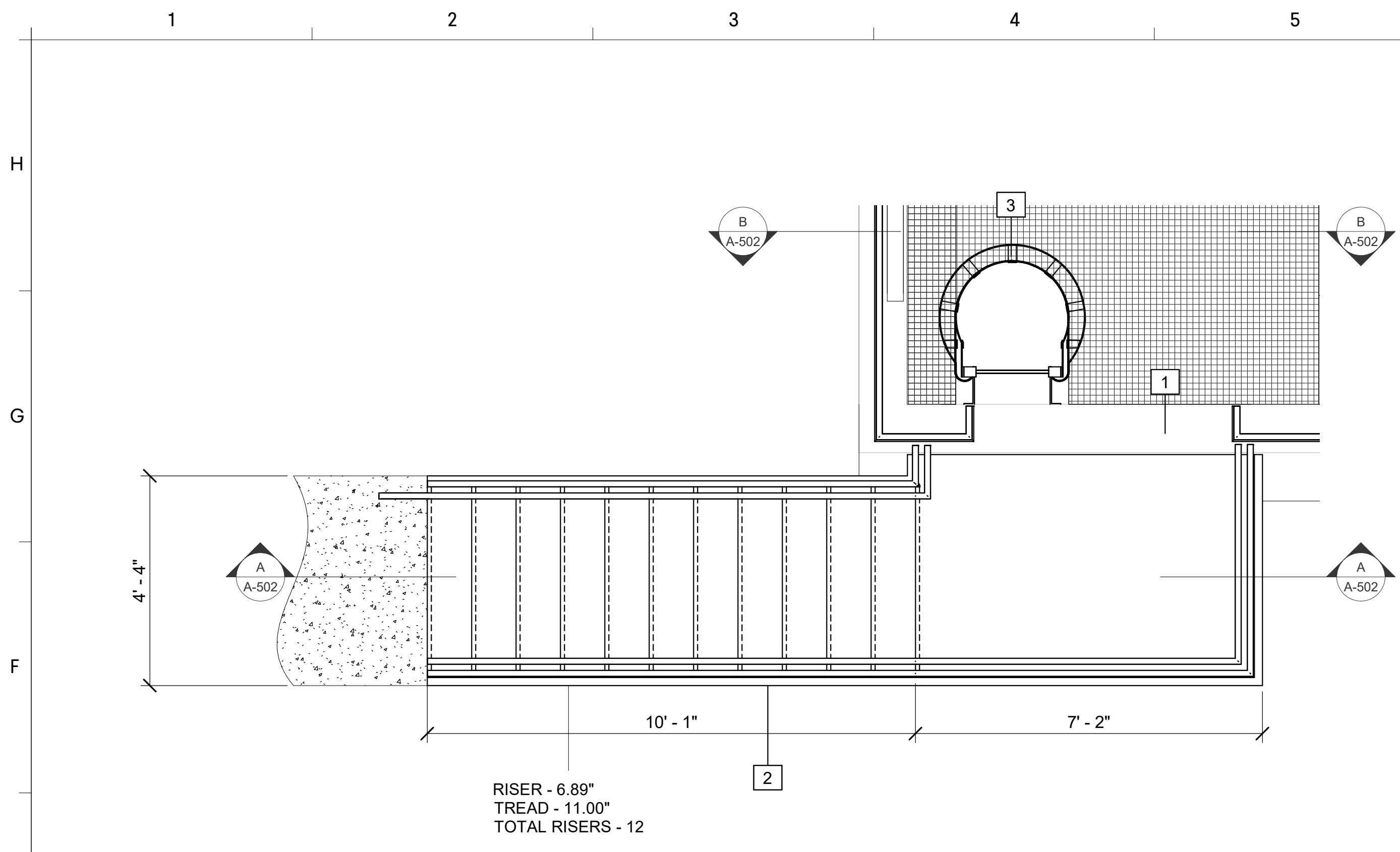


ISSUE	DATE	PROJECT MANAGER:	ENGINEER:	DESIGNER:	DRAWN BY:
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70% SUBMITTAL	12.16.2019				
100% SUBMITTAL	06.15.2020				

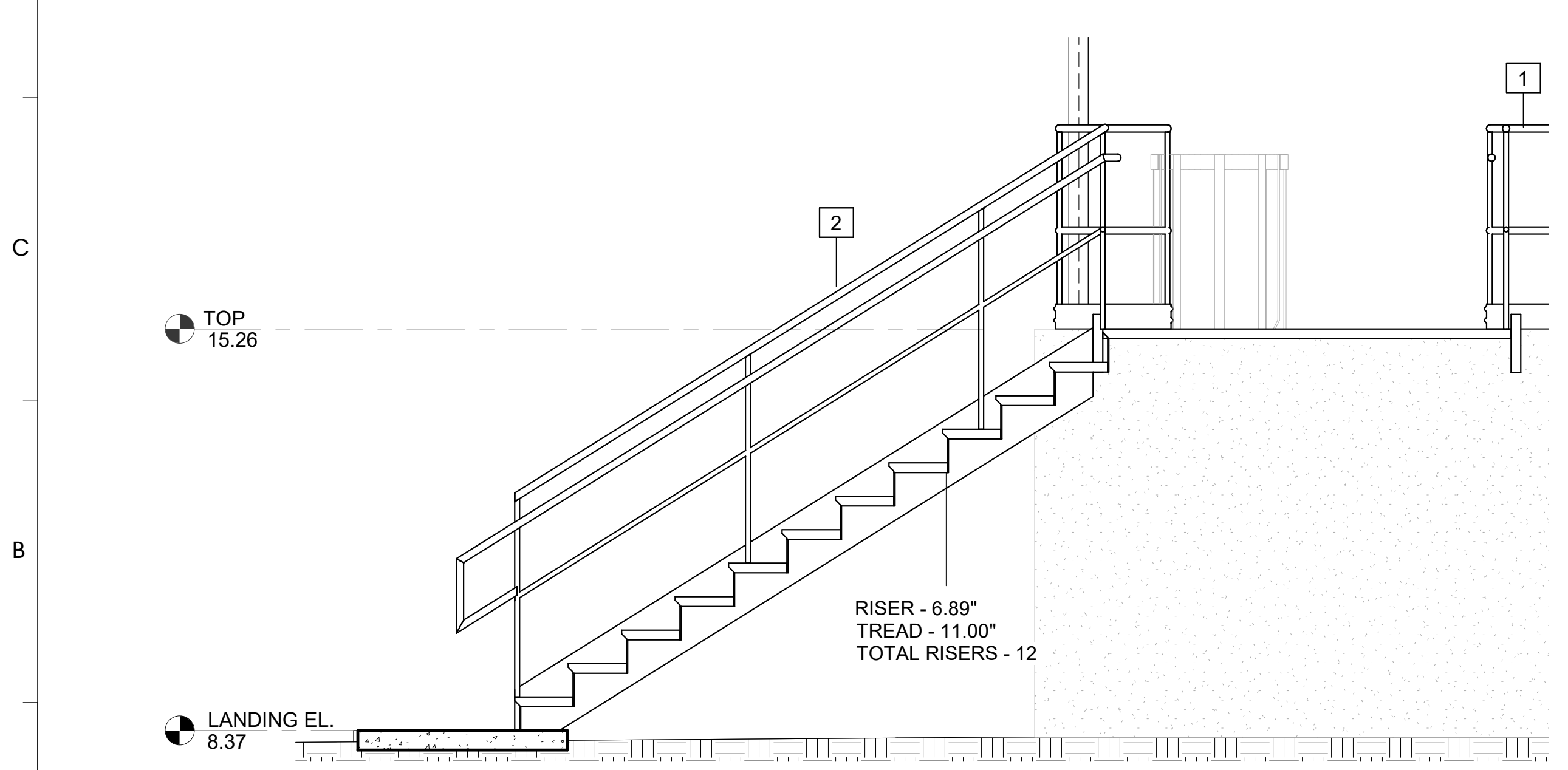
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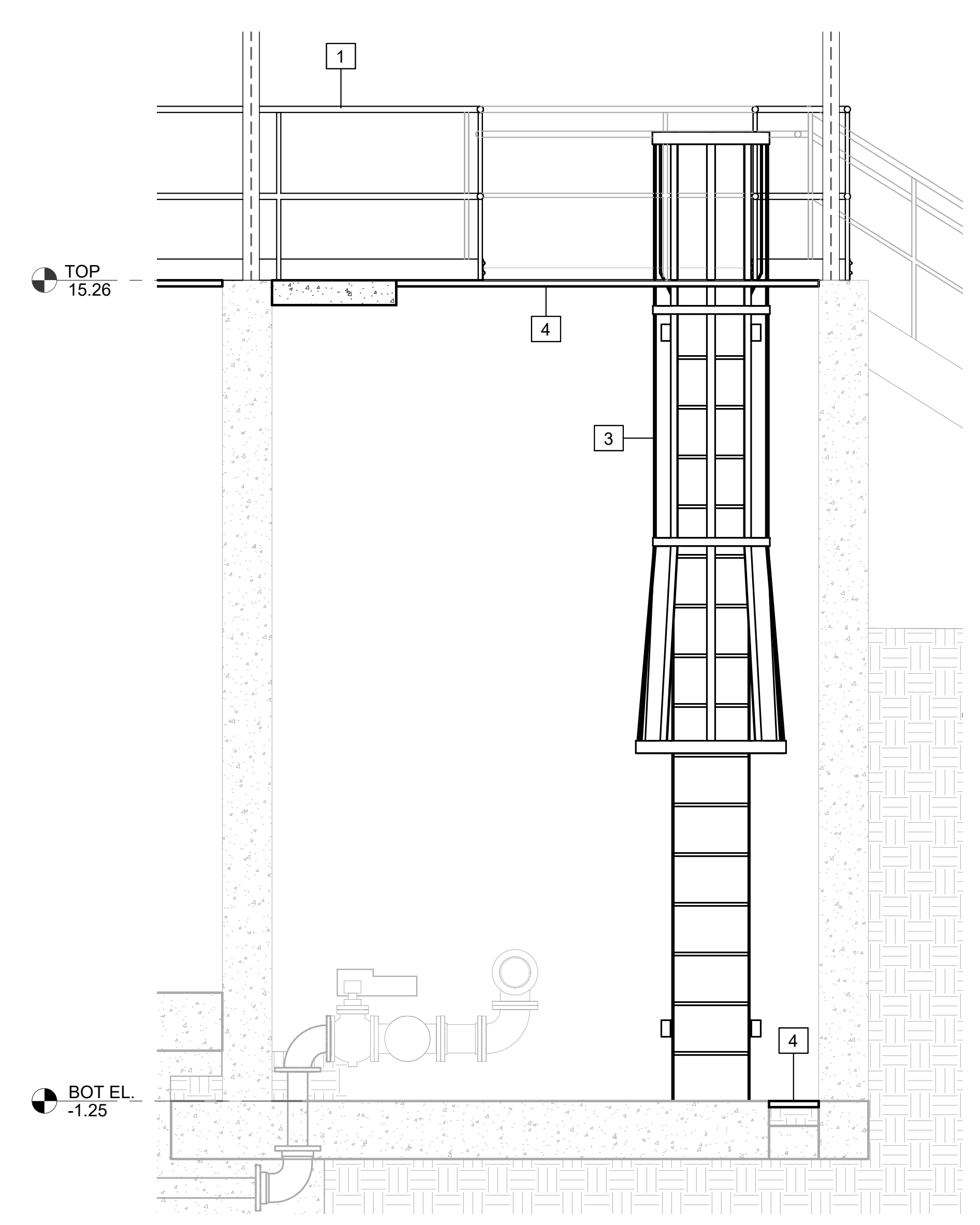
6/5/2020 10:27:39 AM



1 STAIR - ENLARGED PLAN
A-501 SCALE: 1/2" = 1'-0"



A SECTION
A-502 SCALE: 1/2" = 1'-0"



B SECTION
A-502 SCALE: 1/2" = 1'-0"

- KEYED NOTES: #**
- 3'-6" DOUBLE ALUMINUM HANDRAIL
 - STAIR RAILING
 - FIXED LADDER W/ SAFETY CAGE
 - ALUMINUM GRATING

2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY, JOINT WATER
& SEWER COMMISSION

BGWSC Project No. 906
GMC Project # CSAV190007

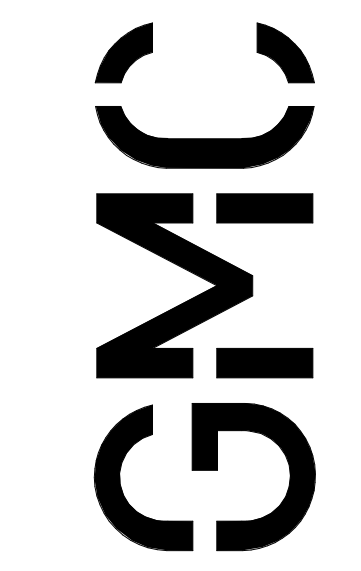


**FILTER - ENLARGED PLAN
& SECTIONS**

A-502

ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	06.15.2020

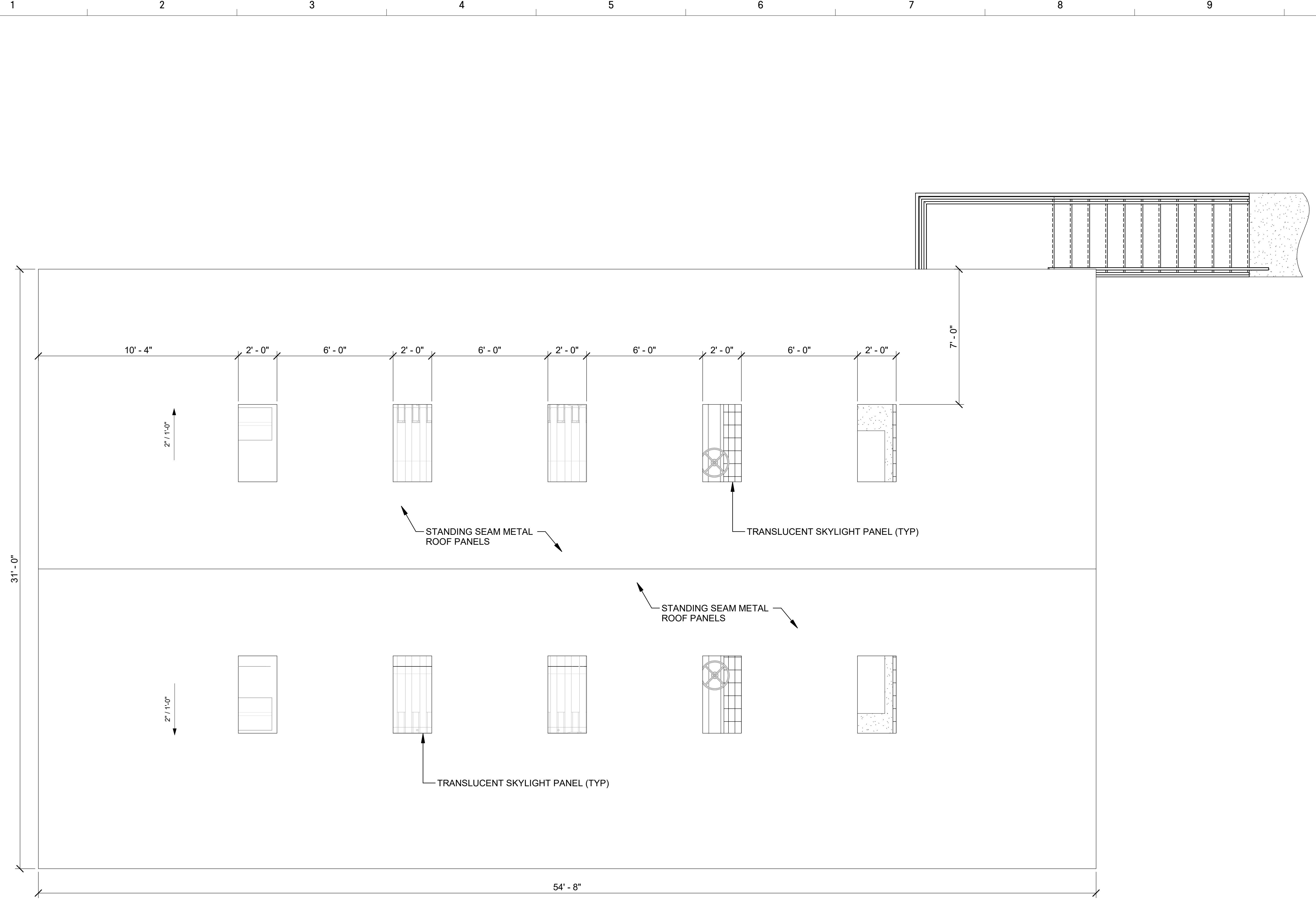
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	FN/HKD



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6/5/2020 10:27:40 AM

1
A-503 **PLAN VIEW**
SCALE: 3/8" = 1'-0"



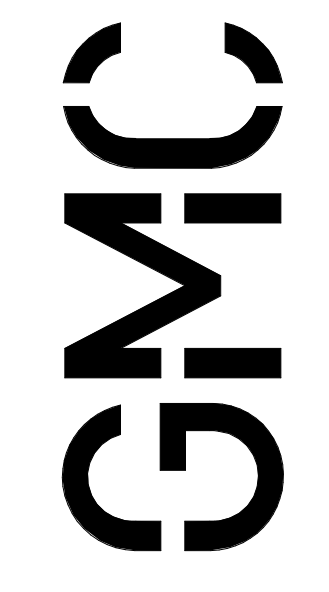
FILTER - CANOPY ROOF
PLAN



2019 WPCF REHABILITATION
ACADEMY CREEK
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 & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

ISSUE	DATE
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100% SUBMITTAL	06.15.2020

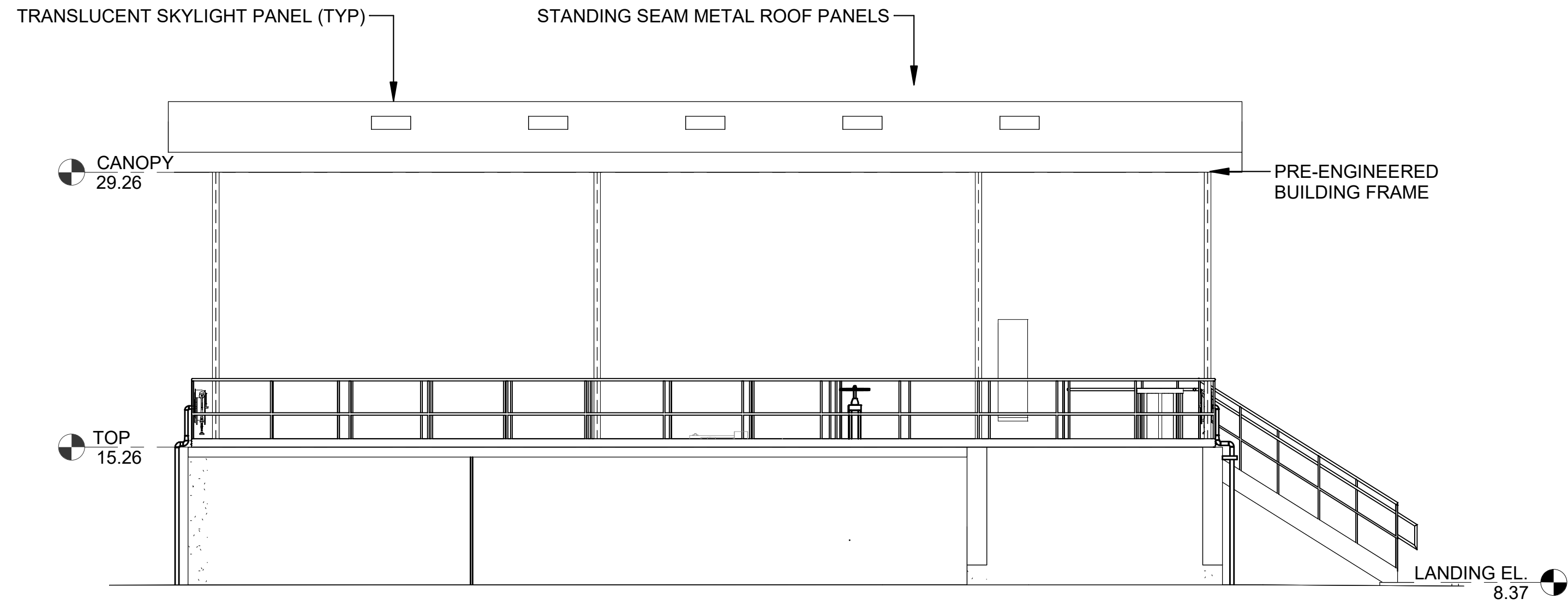
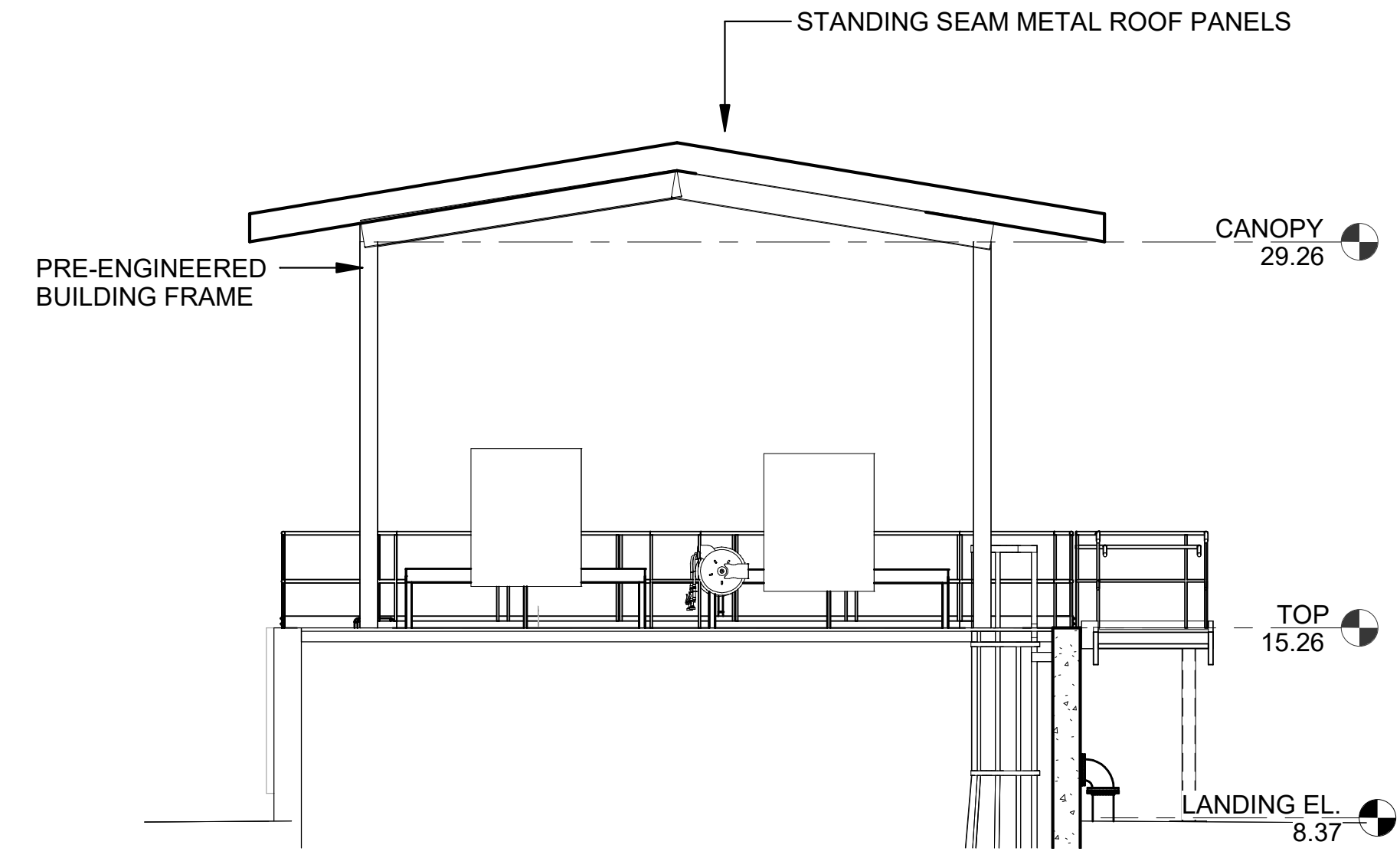
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DRAWN BY:	FN/HKD



A-503

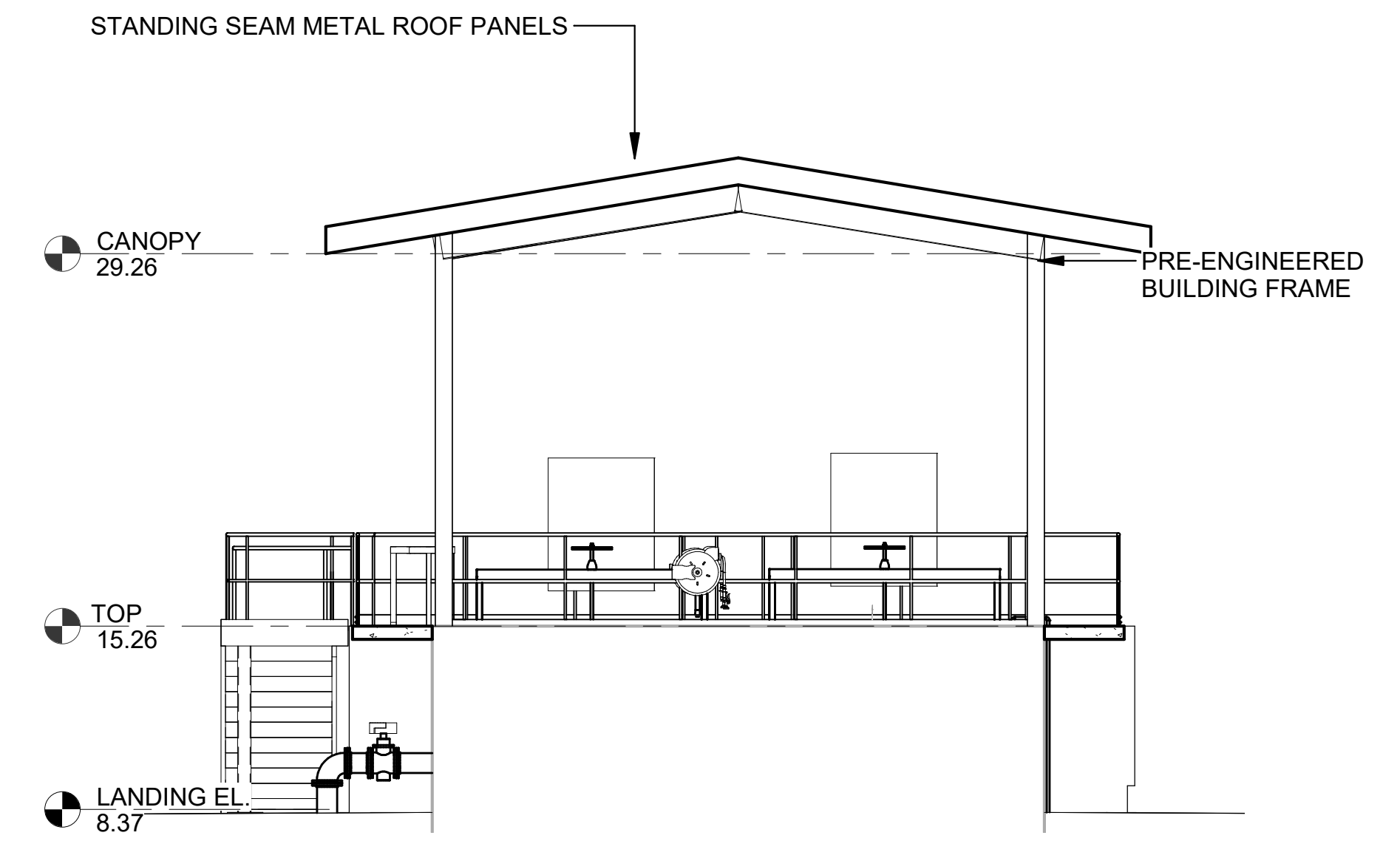
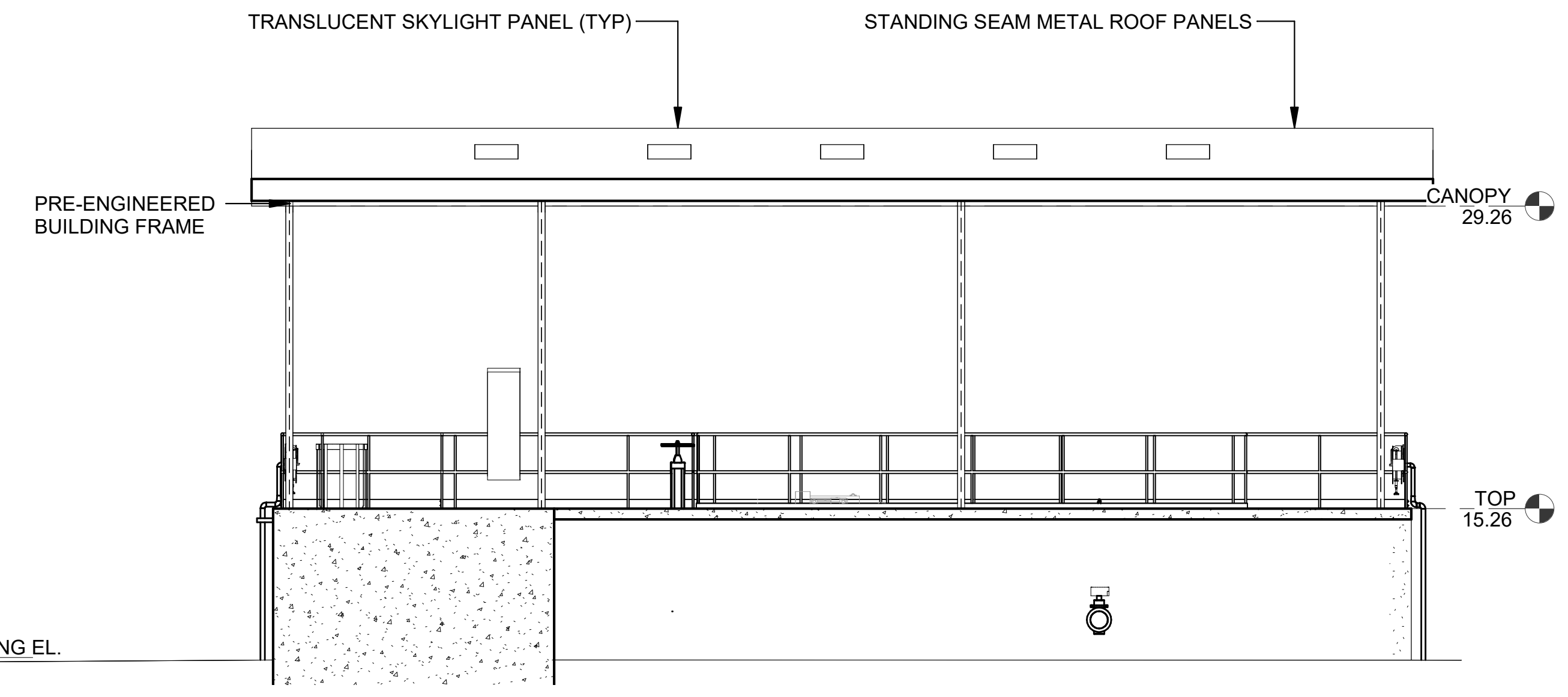
1 2 3 4 5 6 7 8 9 10

H
G
F
E
D
C
B
A



1 East
A-501 SCALE: 3/16" = 1'-0"

4 South
A-501 SCALE: 3/16" = 1'-0"

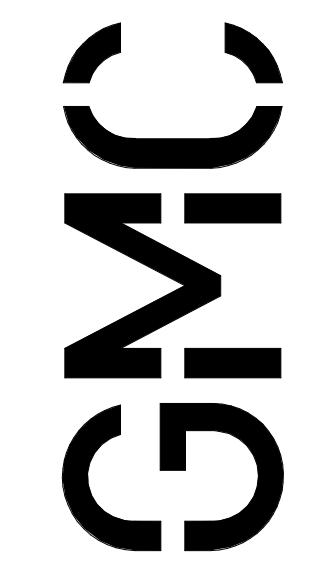


3 North
A-501 SCALE: 3/16" = 1'-0"

2 West
A-501 SCALE: 3/16" = 1'-0"

1 2 3 4 5 6 7 8 9 10

6/5/2020 10:27:41 AM



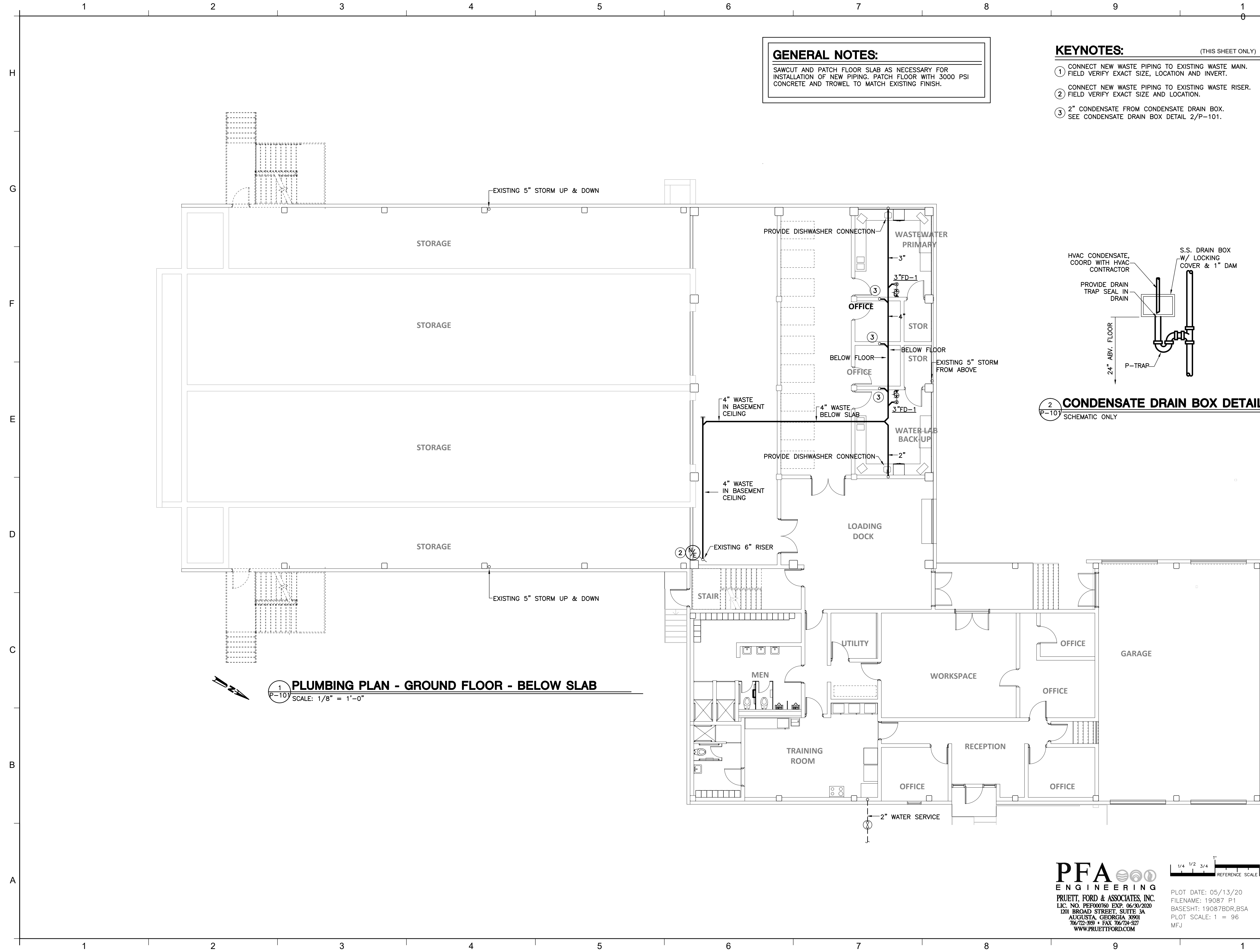
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70% SUBMITTAL	12.16.2019				
100% SUBMITTAL	06.15.2020				

2019 WPCF REHABILITATION
ACADEMY CREEK
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 & SEWER COMMISSION
BGWSC Project No. 906
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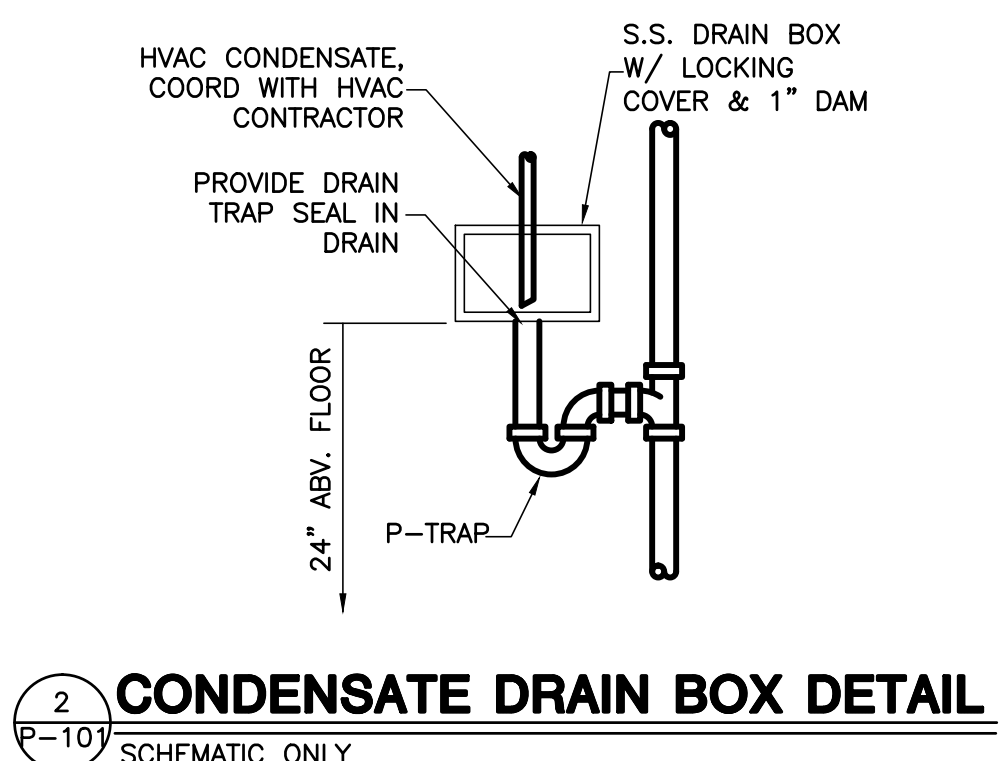
**FILTER - EXTERIOR
 ELEVATIONS**

A-504



GENERAL NOTES:
 SAWCUT AND PATCH FLOOR SLAB AS NECESSARY FOR INSTALLATION OF NEW PIPING. PATCH FLOOR WITH 3000 PSI CONCRETE AND TROWEL TO MATCH EXISTING FINISH.

- KEYNOTES:** (THIS SHEET ONLY)
- ① CONNECT NEW WASTE PIPING TO EXISTING WASTE MAIN. FIELD VERIFY EXACT SIZE, LOCATION AND INVERT.
 - ② CONNECT NEW WASTE PIPING TO EXISTING WASTE RISER. FIELD VERIFY EXACT SIZE AND LOCATION.
 - ③ 2" CONDENSATE FROM CONDENSATE DRAIN BOX. SEE CONDENSATE DRAIN BOX DETAIL 2/P-101.



1 PLUMBING PLAN - GROUND FLOOR - BELOW SLAB
 P-101 SCALE: 1/8" = 1'-0"

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 706-722-3959 • FAX 706-724-3127
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1" REFERENCE SCALE
 1/4 1/2 3/4

PLOT DATE: 05/13/20
 FILENAME: 19087 P1
 BASESHT: 19087BDR,BSA
 PLOT SCALE: 1 = 96
 MFJ

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2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

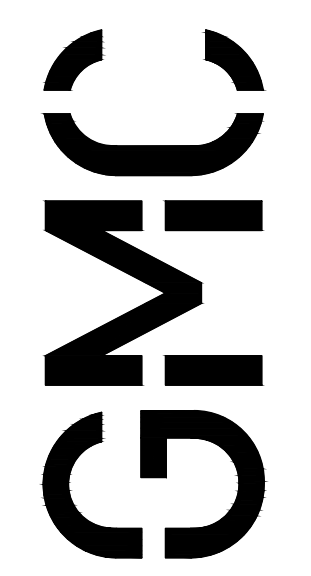
BGWSC Project No. 906
GMC Project # CSAV190007

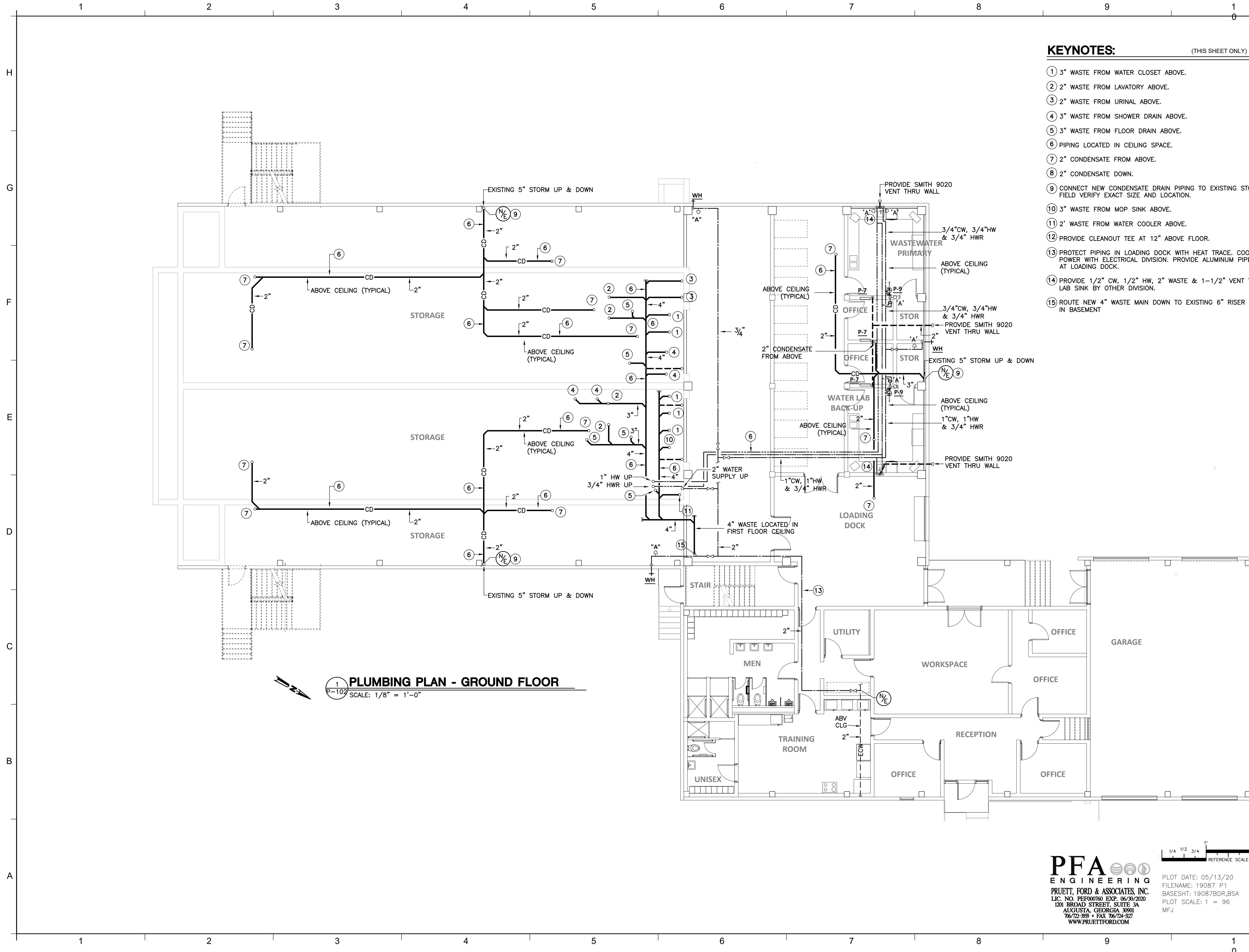
PLUMBING PLAN - GROUND FLOOR - BELOW SLAB
P-101



ISSUE	DATE	DESCRIPTION
30% SUBMITTAL	09.09.2019	35 Abercorn Street, Suite 200 Savannah, GA 31401
70% SUBMITTAL	12.16.2019	T 912.226.1667
100% SUBMITTAL	03.12.2020	
CONSTRUCTION SUBMITTAL	06.01.2020	GMCNETWORK.COM
PROJECT MANAGER:		
ENGINEER:		
DESIGNER:		
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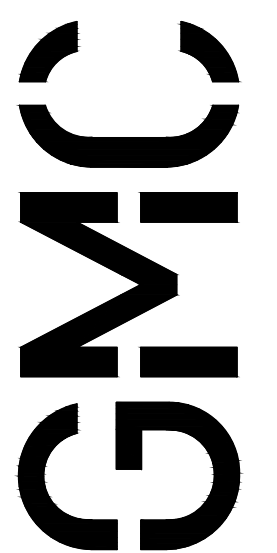




1 PLUMBING PLAN - GROUND FLOOR
 P-102 SCALE: 1/8" = 1'-0"

KEYNOTES: (THIS SHEET ONLY)

- 1 3" WASTE FROM WATER CLOSET ABOVE.
- 2 2" WASTE FROM LAVATORY ABOVE.
- 3 2" WASTE FROM URINAL ABOVE.
- 4 3" WASTE FROM SHOWER DRAIN ABOVE.
- 5 3" WASTE FROM FLOOR DRAIN ABOVE.
- 6 PIPING LOCATED IN CEILING SPACE.
- 7 2" CONDENSATE FROM ABOVE.
- 8 2" CONDENSATE DOWN.
- 9 CONNECT NEW CONDENSATE DRAIN PIPING TO EXISTING STORM PIPING. FIELD VERIFY EXACT SIZE AND LOCATION.
- 10 3" WASTE FROM MOP SINK ABOVE.
- 11 2" WASTE FROM WATER COOLER ABOVE.
- 12 PROVIDE CLEANOUT TEE AT 12" ABOVE FLOOR.
- 13 PROTECT PIPING IN LOADING DOCK WITH HEAT TRACE. COORDINATE POWER WITH ELECTRICAL DIVISION. PROVIDE ALUMINUM PIPE INSULATION AT LOADING DOCK.
- 14 PROVIDE 1/2" CW, 1/2" HW, 2" WASTE & 1-1/2" VENT TO LAB SINK. LAB SINK BY OTHER DIVISION.
- 15 ROUTE NEW 4" WASTE MAIN DOWN TO EXISTING 6" RISER LOCATED IN BASEMENT

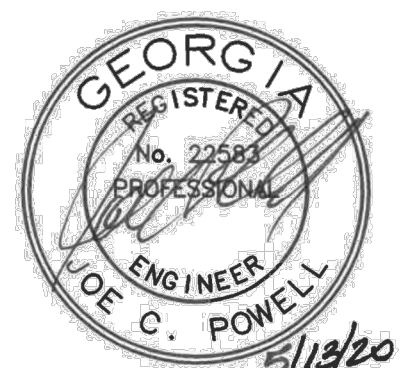


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BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

PROJECT MANAGER: **GMC NETWORK.COM**
 ENGINEER:
 DESIGNER:
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PLUMBING GROUND FLOOR PLAN
P-102

1/4 1/2 3/4" REFERENCE SCALE

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 BASESHT: 19087BDR.BSA
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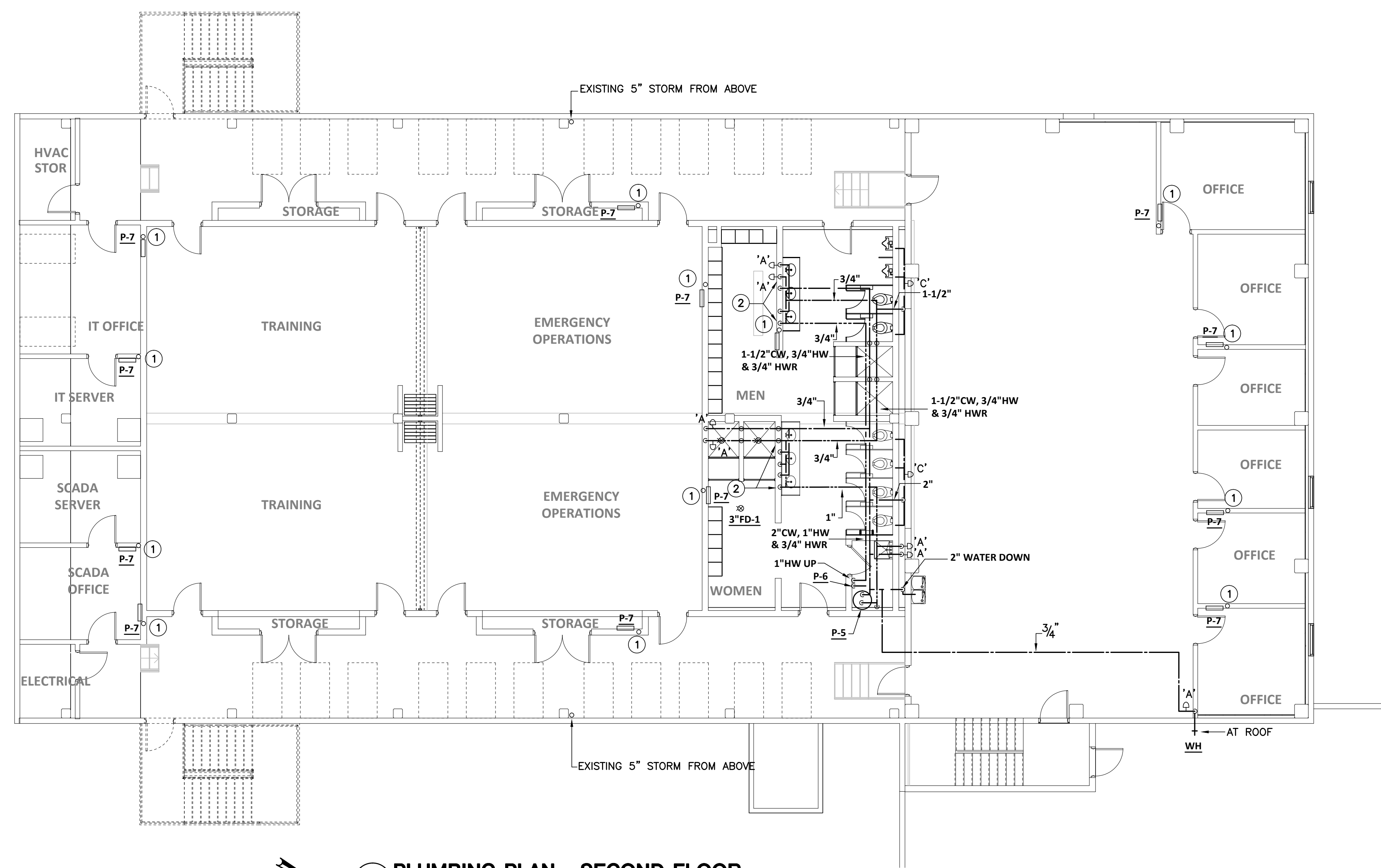
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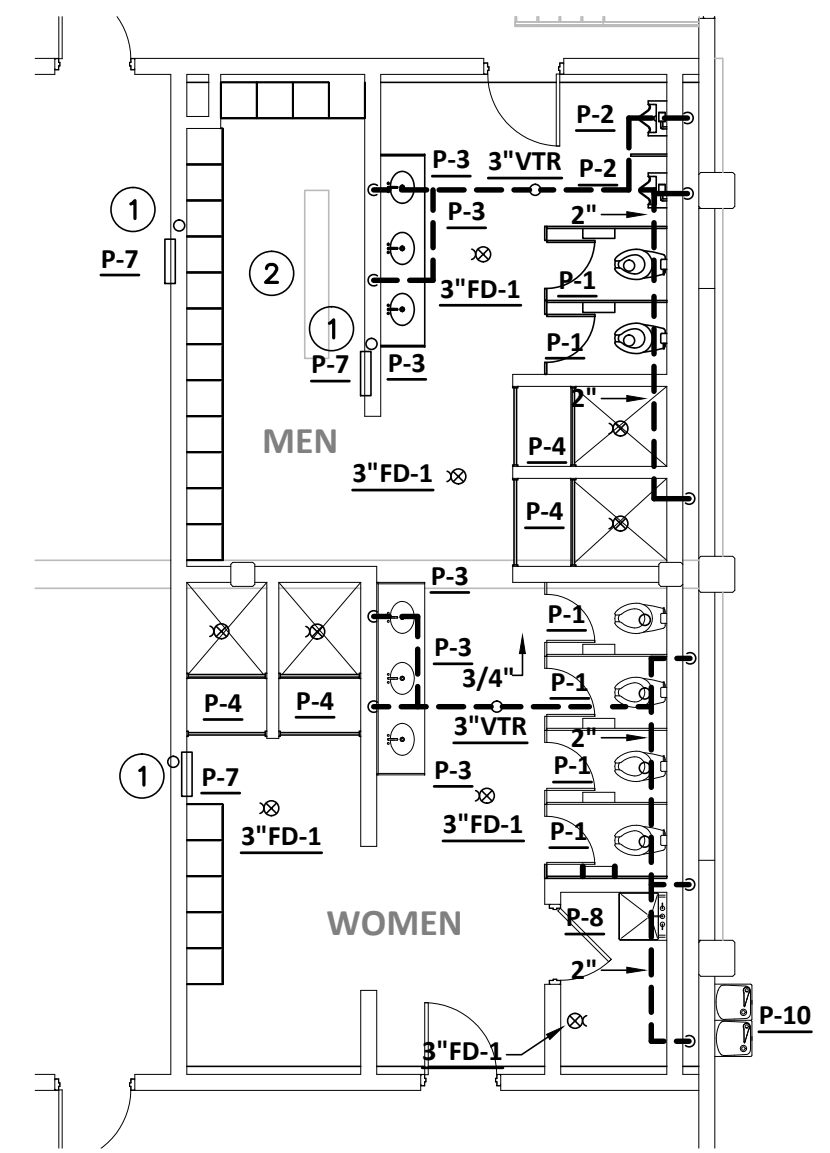
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KEYNOTES: (THIS SHEET ONLY)

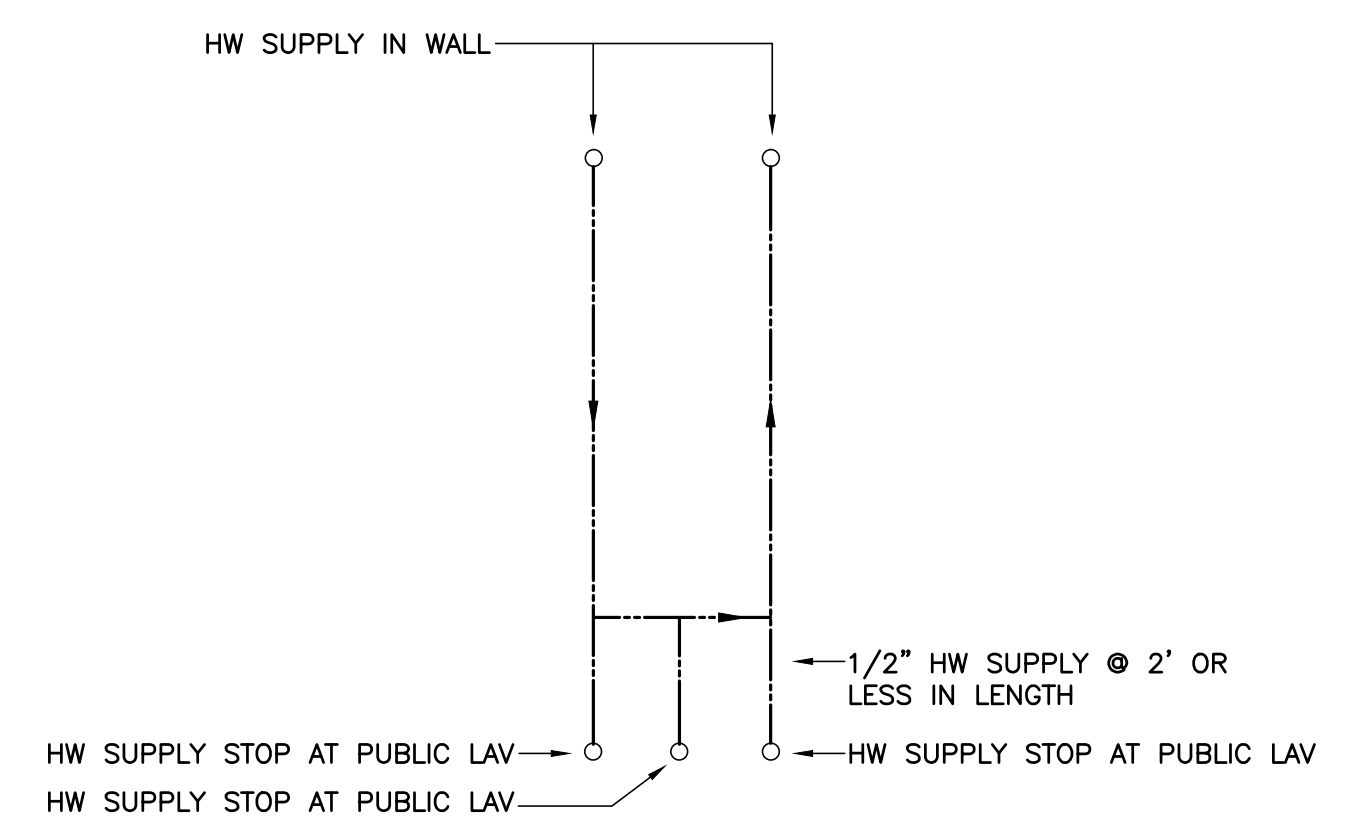
- ① 2" CONDENSATE DOWN.
- ② SEE WATER ROUTING DETAIL 3/P1.03.



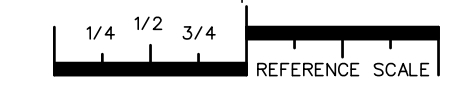
1 PLUMBING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"



2 PLUMBING PART PLAN - SECOND FLOOR - WASTE & VENT
SCALE: 1/8" = 1'-0"



3 HW SUPPLY IN WALL SCHEMATIC
NOT TO SCALE



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PLUMBING - SECOND FLOOR PLAN
P-103



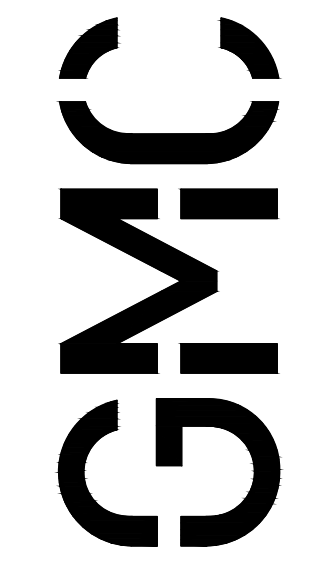
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BGJWSC Project No. 906
GMC Project # CSAV190007

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100% SUBMITTAL: 06.01.2020
CONSTRUCTION SUBMITTAL: 06.01.2020
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1 2 3 4 5 6 7 8 9 10

PLUMBING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WASTE OR SANITARY SEWER		SHUTOFF VALVE
	VENT		COLD WATER
	EXISTING CLEANOUT		HOT WATER
	VENT THRU ROOF		HOT WATER CIRCULATING
	NEW WORK CONNECTION TO EXISTING		WALL HYDRANT
	CONDENSATE DRAIN LINE		CLEANOUT
			FLOOR DRAIN
			WATER HAMMER ARRESTOR

GENERAL PLUMBING NOTES

EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS, LARGE SCALE ARCHITECTURAL DETAILS AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.

INVERT ELEVATIONS SHOWN SHALL BE VERIFIED ON THE JOB BEFORE INSTALLING ANY NEW PIPE.

INSTALL TEST-TEES WHEN THE SANITARY SEWER SYSTEM IS TO BE TESTED IN SECTIONS.

PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK.

RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.

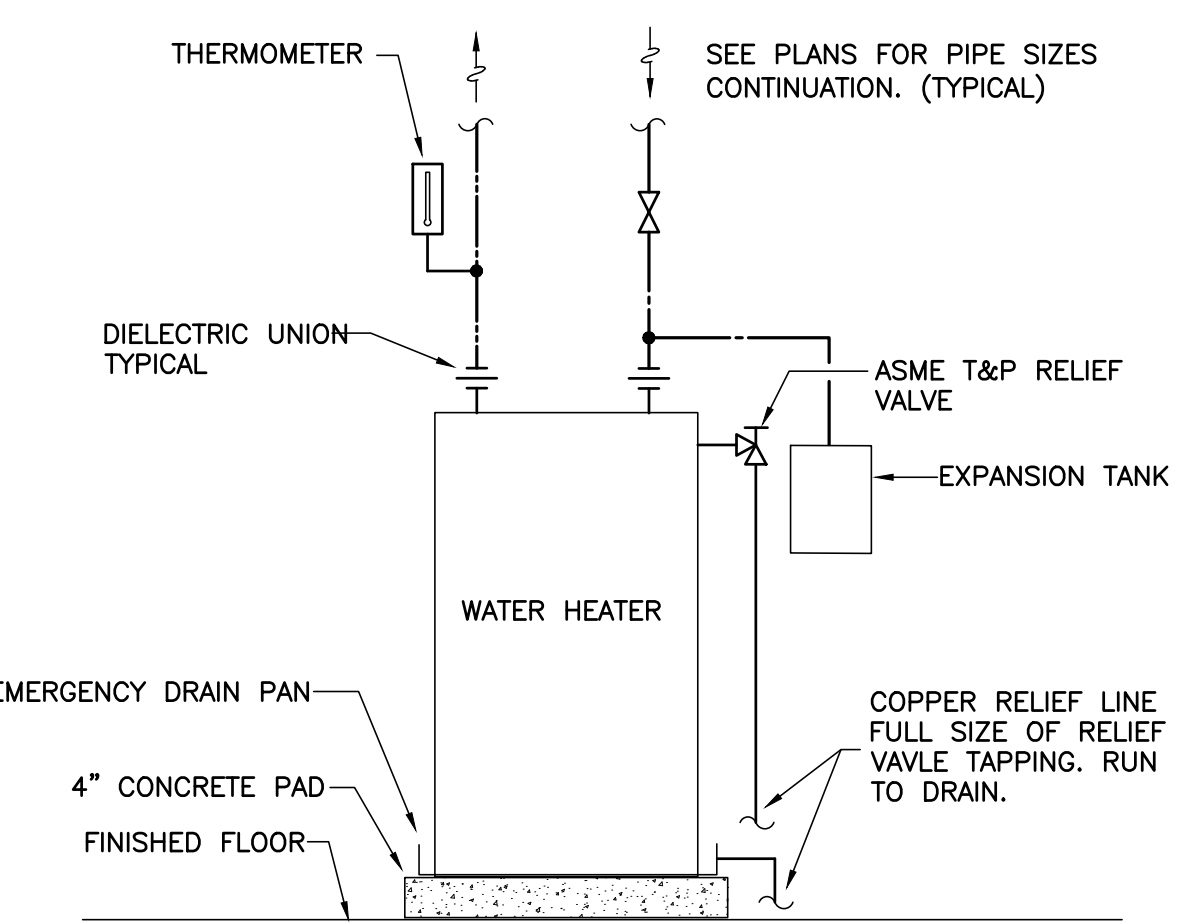
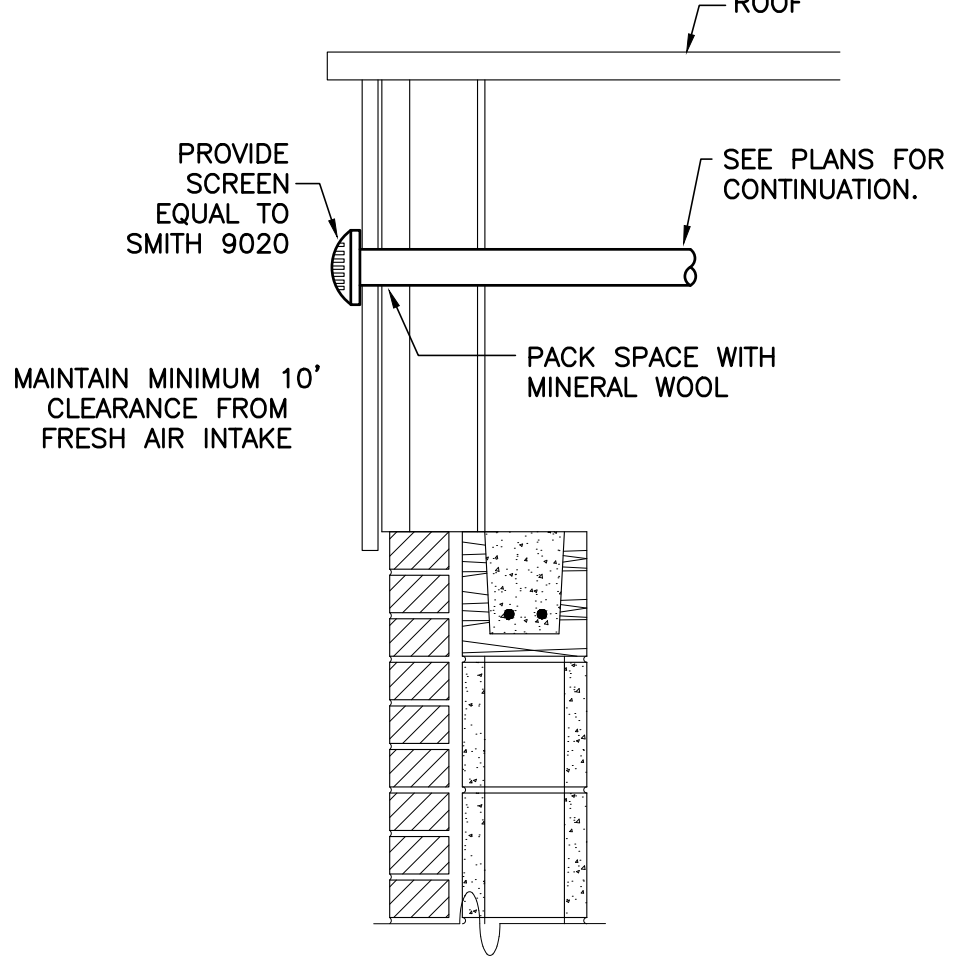
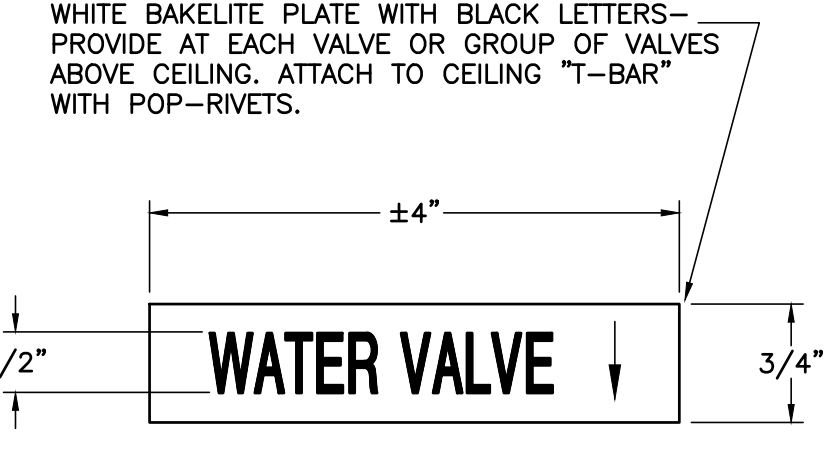
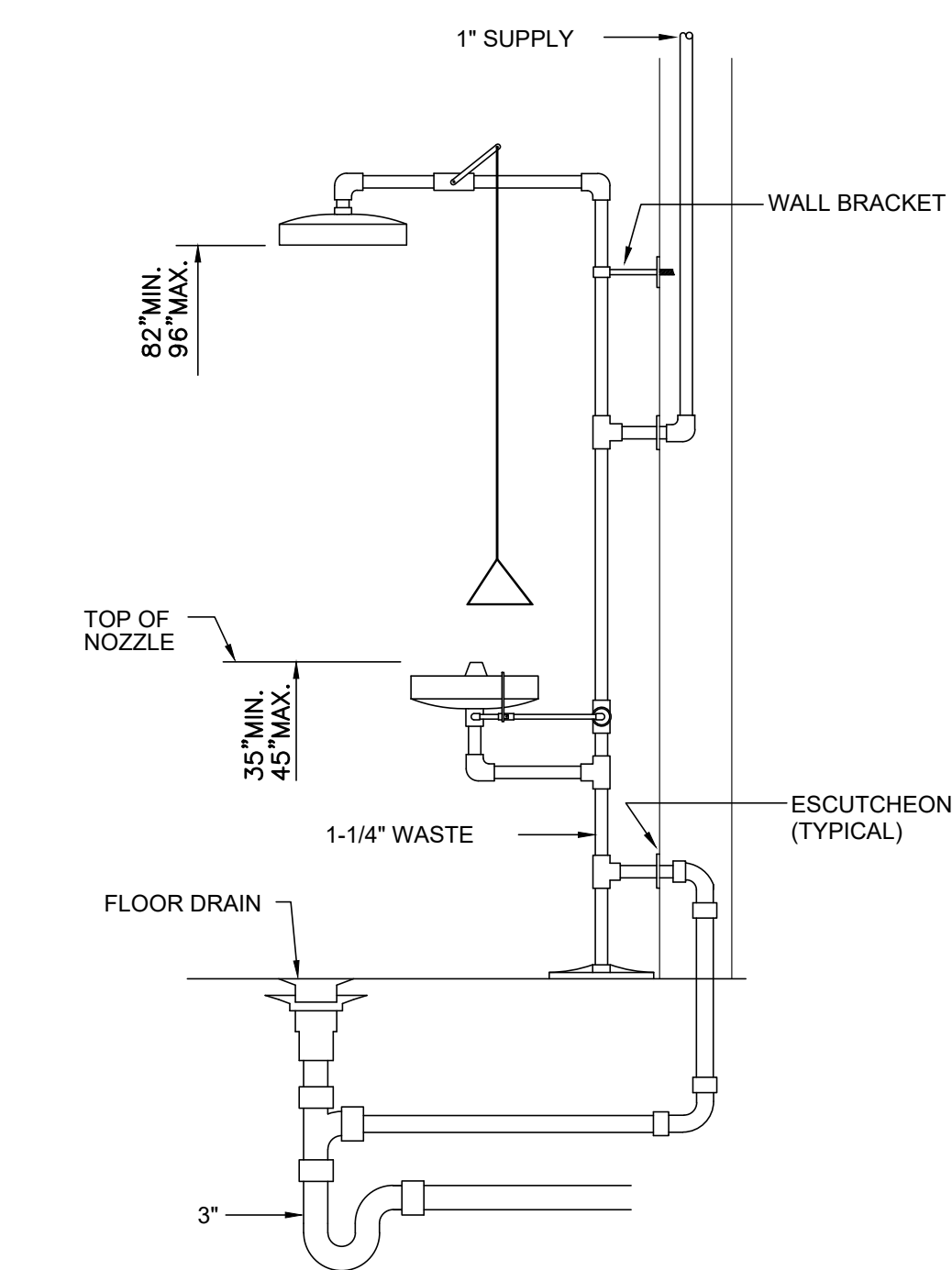
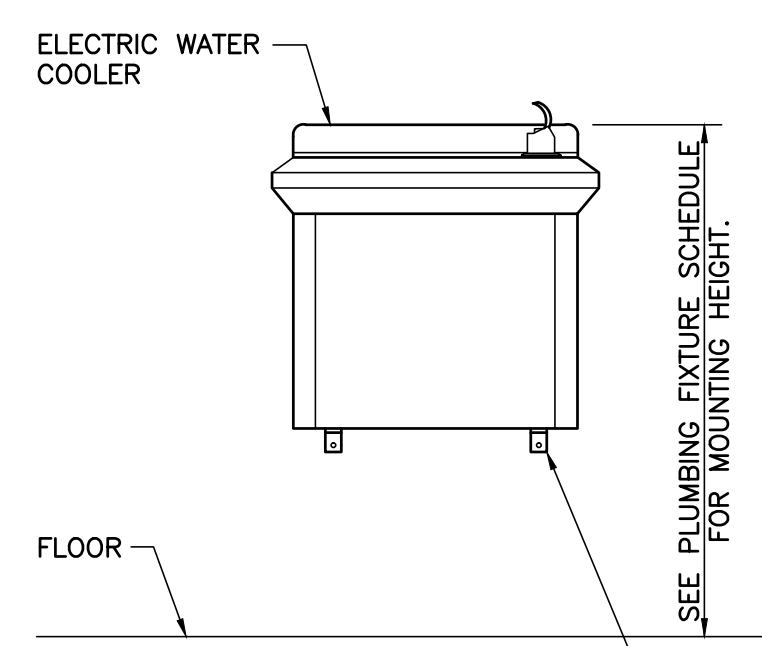
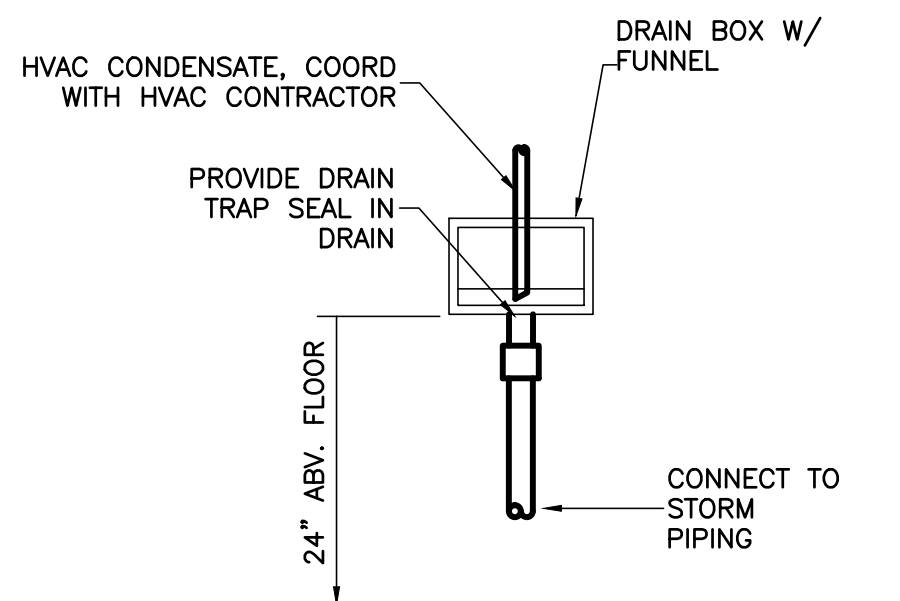
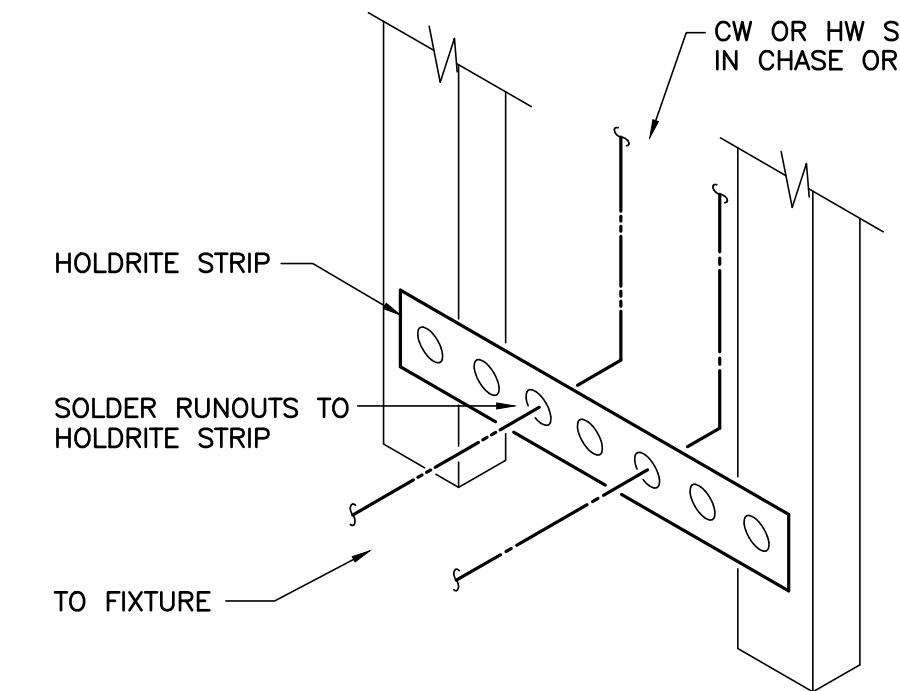
REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOORS WHERE FLOOR DRAINS AND CLEANOUTS ARE LOCATED.

INSTALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE, EXCEPT AS NOTED OTHERWISE.

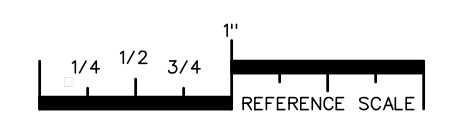
PROVIDE SLEEVES FOR PIPES PASSING THRU FLOORS, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY.

SYMBOL	FIXTURE	WASTE CONN. BRANCH		VENT	COLD WATER	HOT WATER	RIM HGT. BASIS OF DESIGN	① BASIS OF DESIGN
		WASTE	CONN. BRANCH					
P-1	WATER CLOSET	4"	4"	2"	1"	-	15"	KOHLER K-96053, SLOAN 111-1.28 F.V., BENEKE 527-SS WHITE SEAT
P-2	URINAL	2"	2"	1-1/2"	1"	-	24"	K-5016-ET, SLOAN 186-0.5 FLUSH VALVE
P-3	LAVATORY (DECK MOUNT)	1-1/4"	1-1/4"	1-1/2"	1/2"	DECK		K-2905-4 (20x16), CHICAGO 802A FAUCETS, MCGUIRE 155A GRID DRAIN ③
P-4	SHOWER	2"	2"	1-1/2"	1/2"	-		SYMMONS 1-100-X (MIXING VALVE, SHOWER ARM & HEAD) SMITH 2005-94 DRAIN ②
P-5	WATER HEATER (80 GALLON)	-	-	3/4"	3/4"	-		AO SMITH DRE-80-36, 80 GAL STORAGE, 36 KW INPUT ⑥
P-6	RECIRCULATING PUMP	-	-	-	3/4"	48"		B&G NBF-22, 2 GPM @ 14 FT. HEAD
P-7	CONDENSATE DRAIN	1-1/2"	1-1/2"	-	-	-		ACORN M8200-E510 BOX WITH 1" DAM & LOCKING COVER
P-8	MOP SINK	3"	3"	2"	1/2"	FAUCET @ 36" A.F.		FIAT TSBC-1610, 832-AA, 889-CC, CHICAGO 897-RCF FAUCET,
P-9	EMERG. EYEWASH/SHWR	1-1/2"	1-1/2"	2"	3/4"	3/4"		GUARDIAN GBF1994-TMV W/ THERMOSTATIC MIXING VALVE
P-10	ELECTRIC WATER COOLER HI-LO	1-1/4"	1-1/4"	1-1/2"	1/2"	-	APRON BOTTOM 27"	ELKAY EZSTLWLSLK W/ BOTTLE FILLER STAINLESS STEEL FINISH
CO-1	CLEANOUT (EXTERIOR)	-	-	-	-	-		SMITH 4291 (UNPAVED AREA)
FD-1	FLOOR DRAIN (GENERAL)	-	-	-	-	-		SMITH 2005L ④ ⑦
WH	WALL HYDRANT	-	-	-	3/4"	-		SMITH 5519 SERIES (BOX)

- PLUMBING FIXTURE SCHEDULE KEYNOTES**
- RIM HEIGHT FOR GUIDANCE ONLY. SEE ARCHITECTS DRAWINGS FOR EXACT MOUNTING HEIGHT. ROUGH WATER AND SANITARY CONNECTION AS REQUIRED. RIM HEIGHT INCLUDES SPECIFIED SEAT ON WATER CLOSETS.
 - MOUNT SHOWER HEAD AT 72" A.F.
 - PROVIDE "TRUEBRO LAV GUARD" PROTECTIVE PIPE COVERS ON WASTE AND SUPPLY PIPING.
 - PROVIDE 7" STRAINER ON 3" DRAINS AND 9" STRAINER ON 4" DRAINS. PROVIDE ROUND TOP FOR ALL FLOOR DRAINS.
 - RIM FLUSH WITH FINISHED FLOOR.
 - PROVIDE AMTROL ST-12 EXPANSION TANK.
 - PROVIDE PROSET TRAP GUARD.



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PLUMBING -
SCHEDULE,
NOTES & DETAILS

BGJWSC Project No. 906
GMC Project # CSAV190007

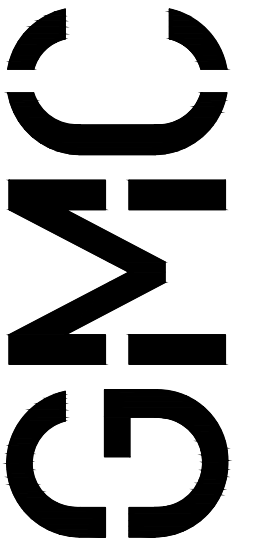
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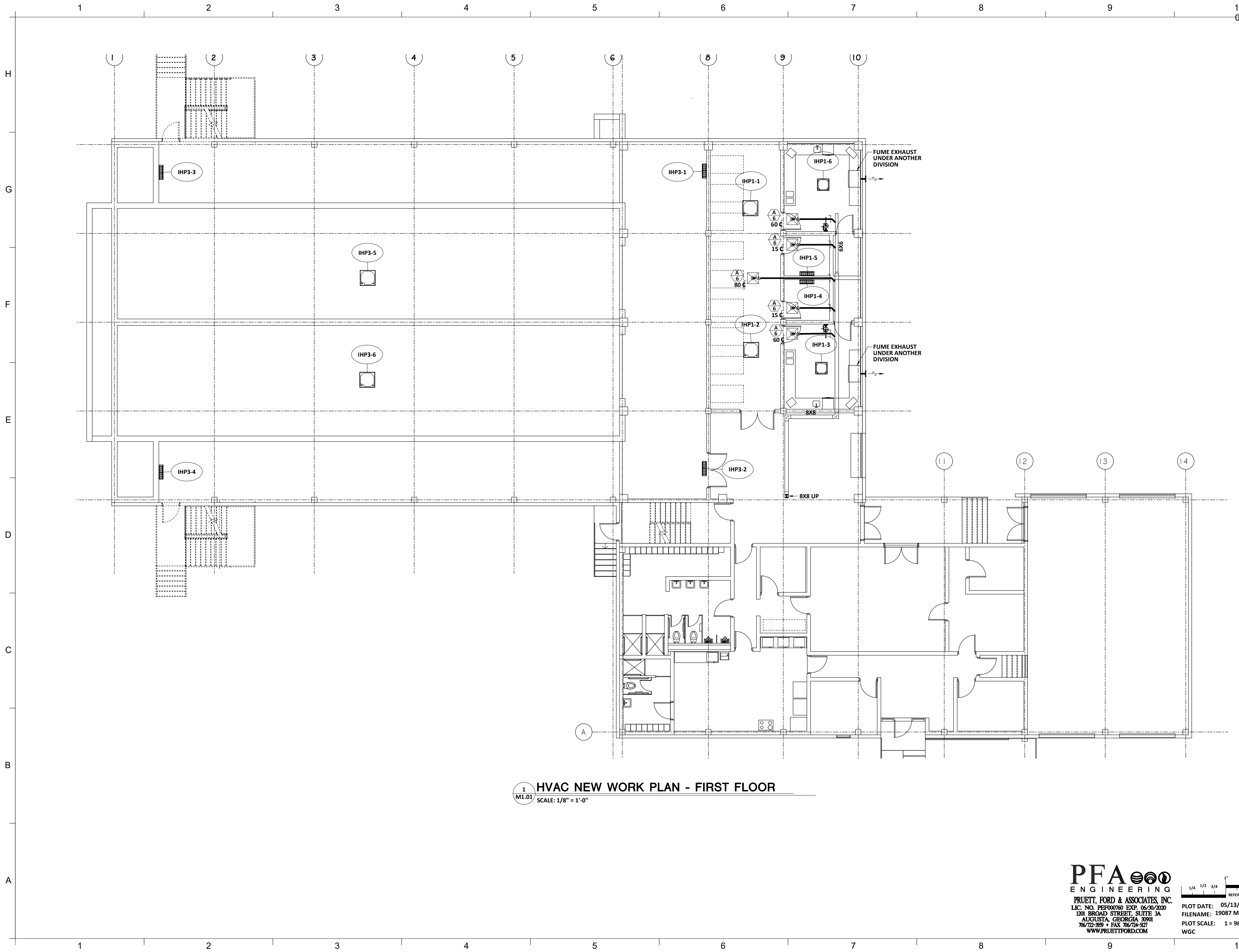
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03.12.2020 100% SUBMITTAL
06.01.2020 CONSTRUCTION SUBMITTAL
GMCNETWORK.COM
PROJECT MANAGER:
ENGINEER:
DESIGNER:
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1 HVAC NEW WORK PLAN - FIRST FLOOR
 M1.01 SCALE: 1/8" = 1'-0"

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GROUND FLOOR PLAN

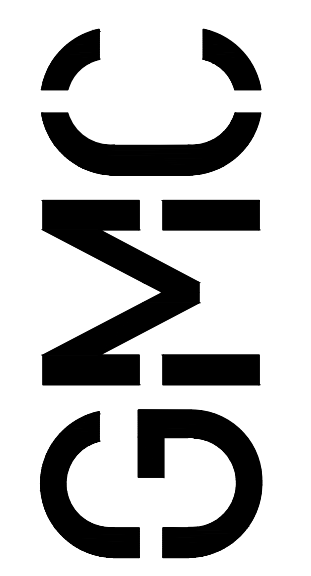
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2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

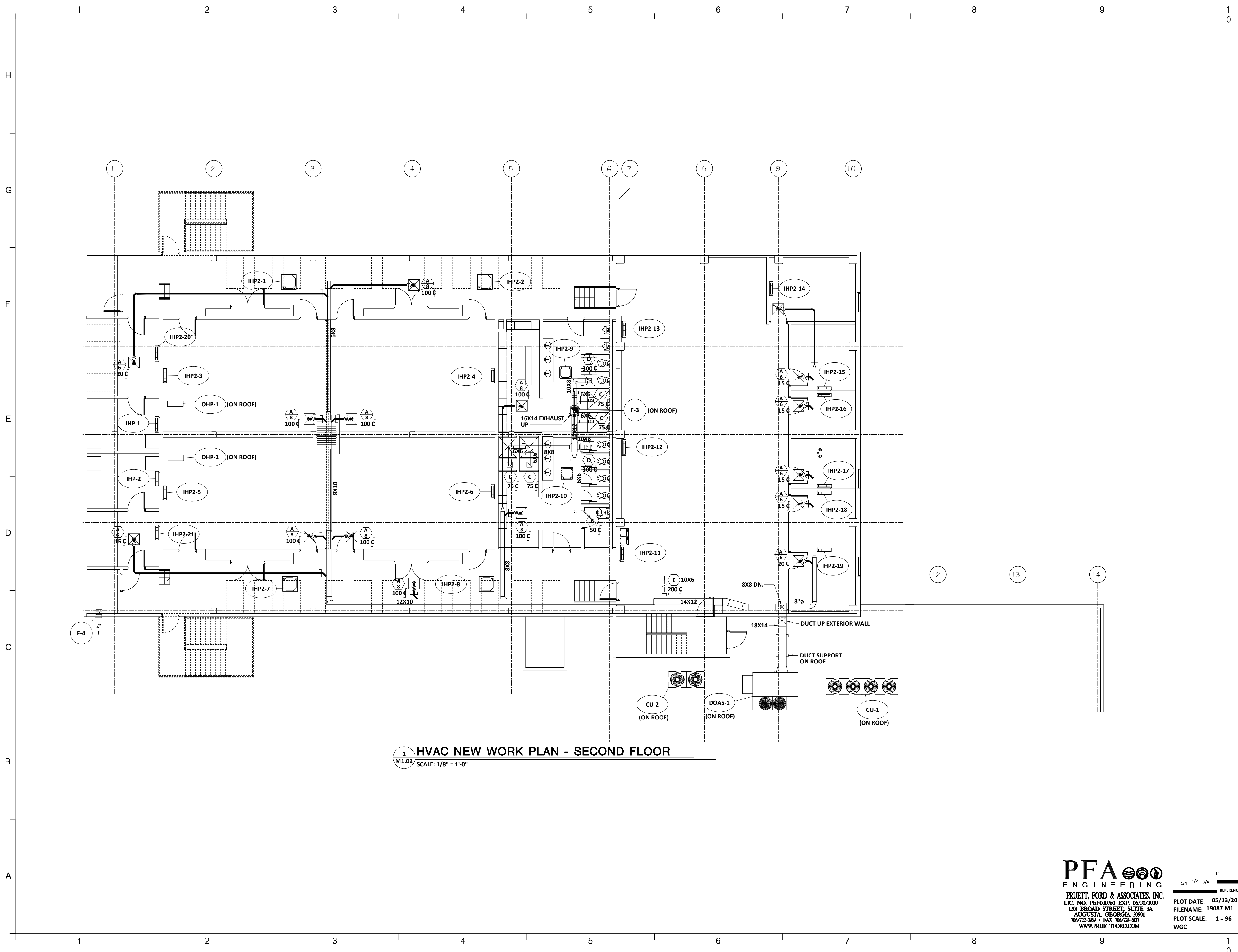
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 100% SUBMITTAL 06.01.2020
 CONSTRUCTION SUBMITTAL
 PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AU



1" SCALE
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1 HVAC NEW WORK PLAN - SECOND FLOOR
 M1.02 SCALE: 1/8" = 1'-0"

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FIRST FLOOR
 PLAN

M-102

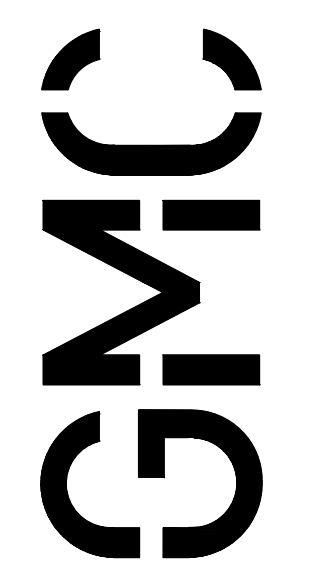
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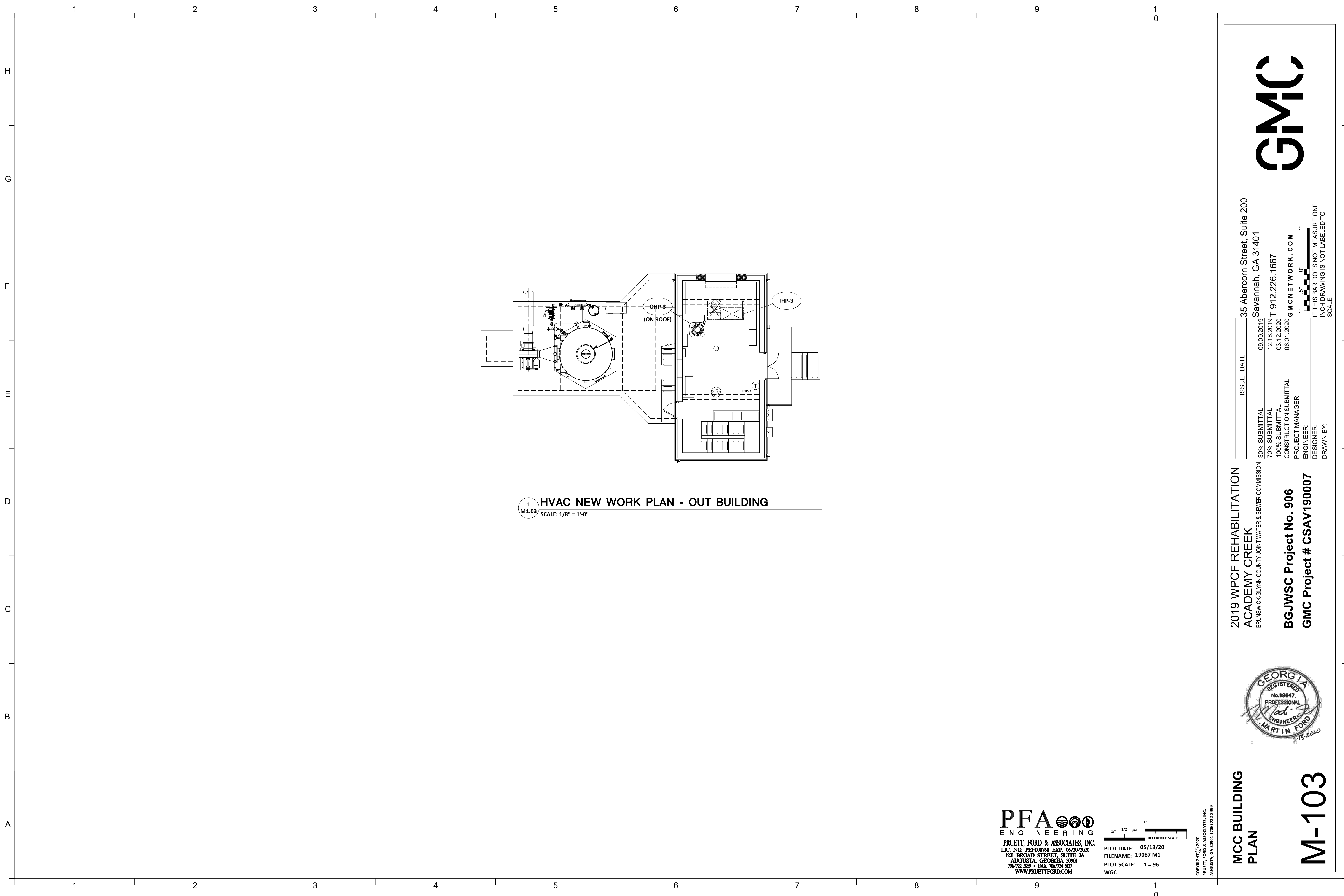
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PROJECT MANAGER: **GMC NETWORK . COM**
 ENGINEER:
 DESIGNER:
 DRAWN BY:

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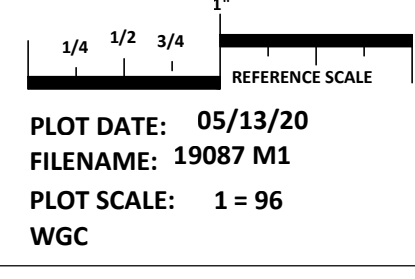


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1 HVAC NEW WORK PLAN - OUT BUILDING
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MCC BUILDING PLAN
M-103

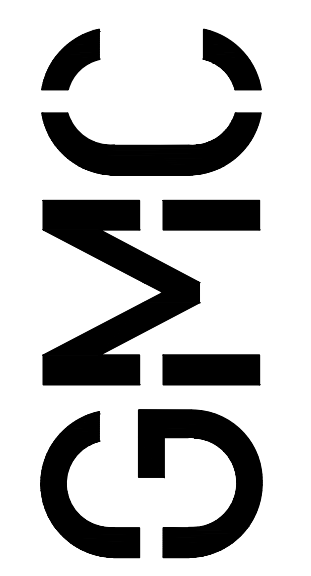


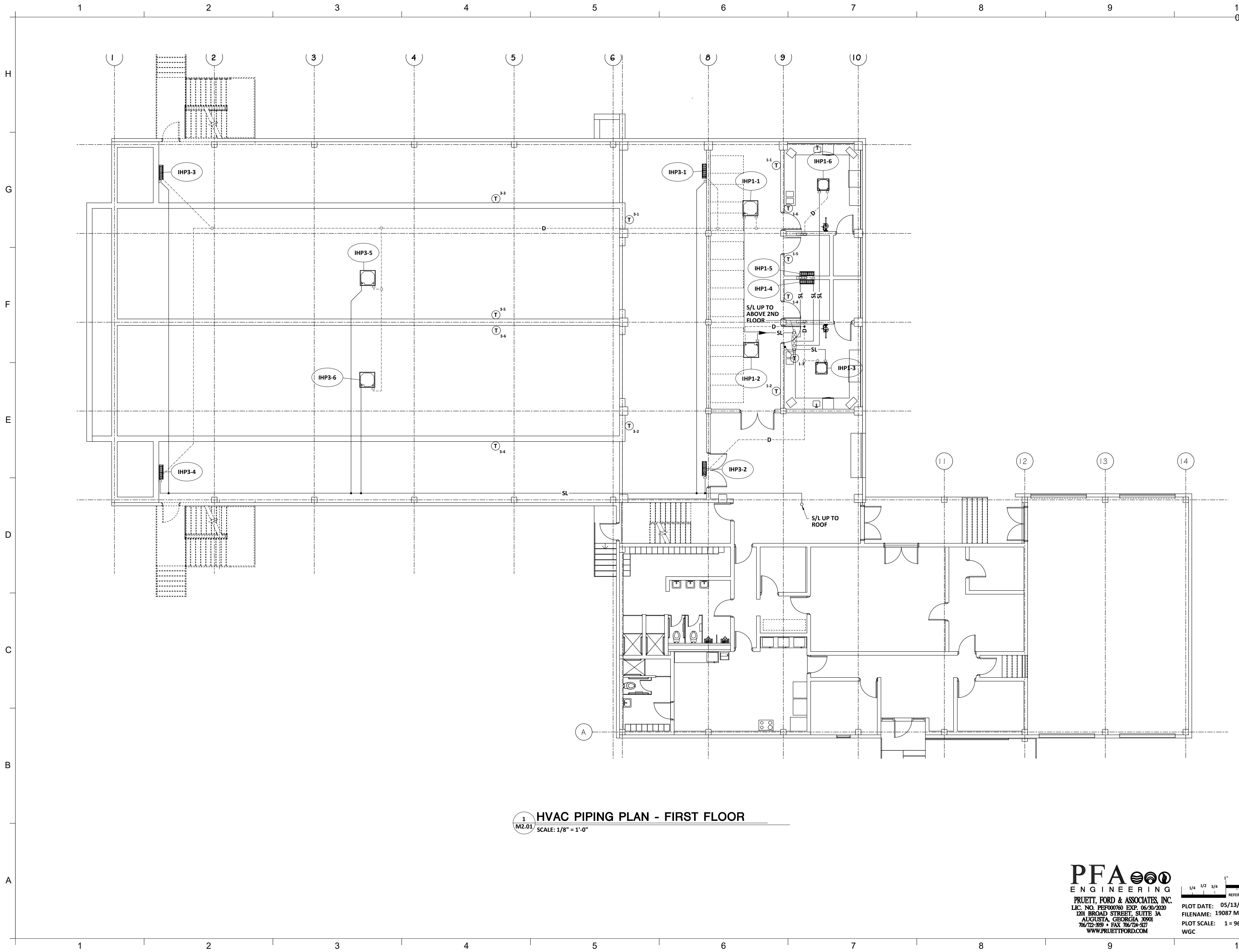
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1 HVAC PIPING PLAN - FIRST FLOOR
 M2.01 SCALE: 1/8" = 1'-0"

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GROUND FLOOR PLAN
M-201

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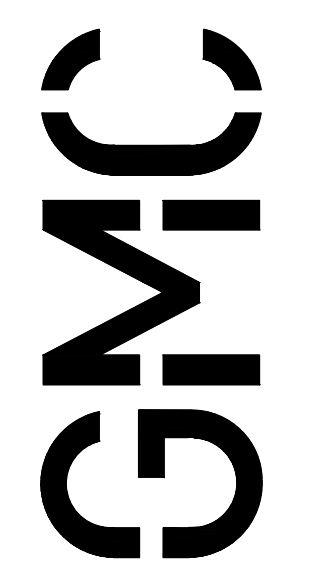
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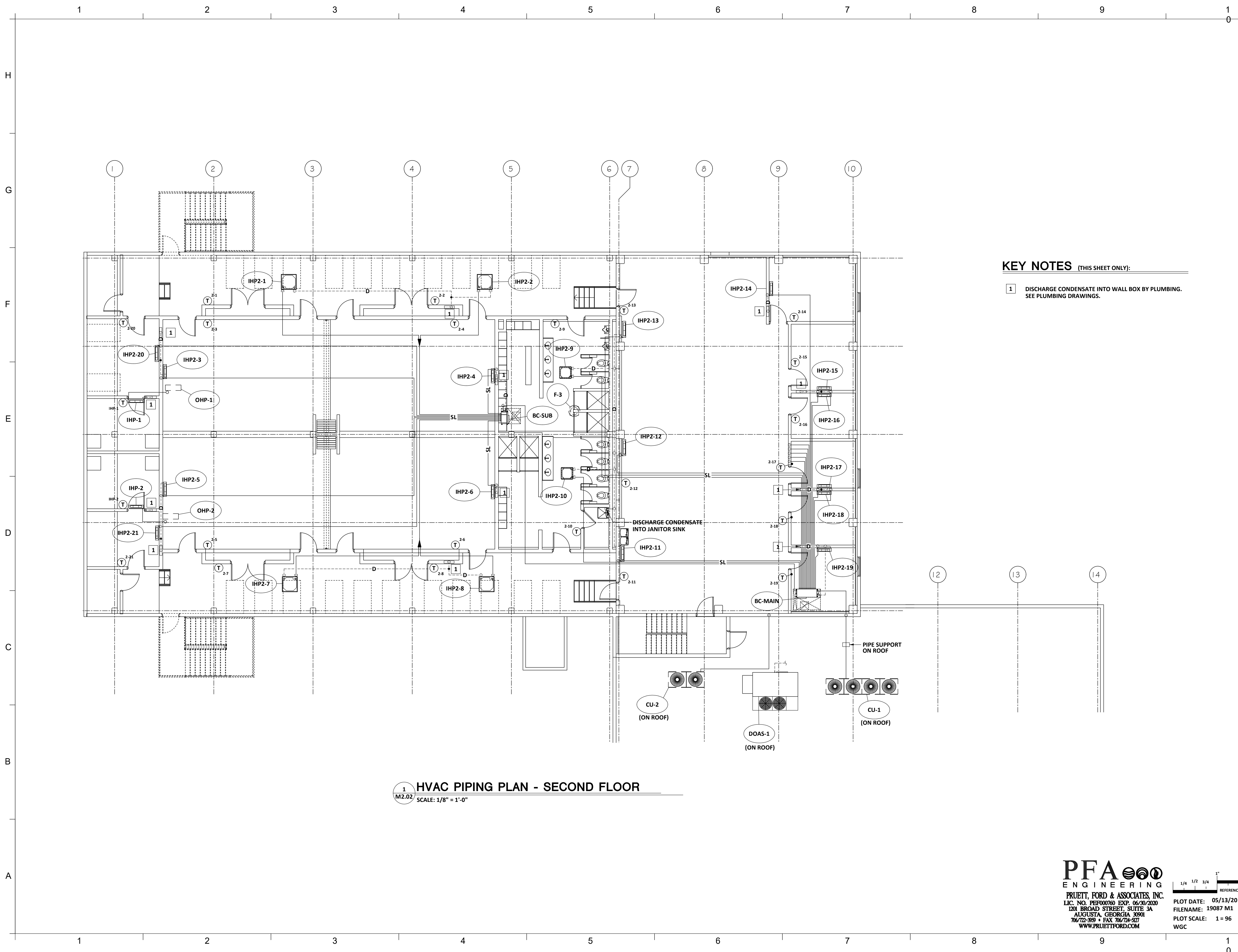
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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

1" = 5'-0" SCALE
 GS IF THIS BAR DOES NOT MEASURE ONE INCH DRAWING IS NOT LABELED TO SCALE

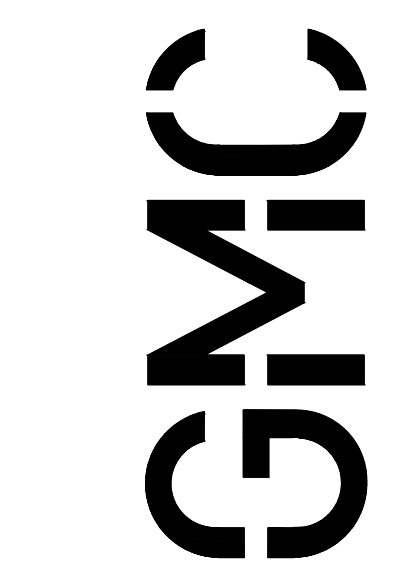




KEY NOTES (THIS SHEET ONLY):

1 DISCHARGE CONDENSATE INTO WALL BOX BY PLUMBING. SEE PLUMBING DRAWINGS.

1 HVAC PIPING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"



2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

35 Abercorn Street, Suite 200
Savannah, GA 31401
T 912.226.1667

BGWSC Project No. 906
GMC Project # CSAV190007

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

PROJECT MANAGER: **GMC NETWORK.COM**
ENGINEER:
DESIGNER:
DRAWN BY:

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FIRST FLOOR
PLAN

M-202

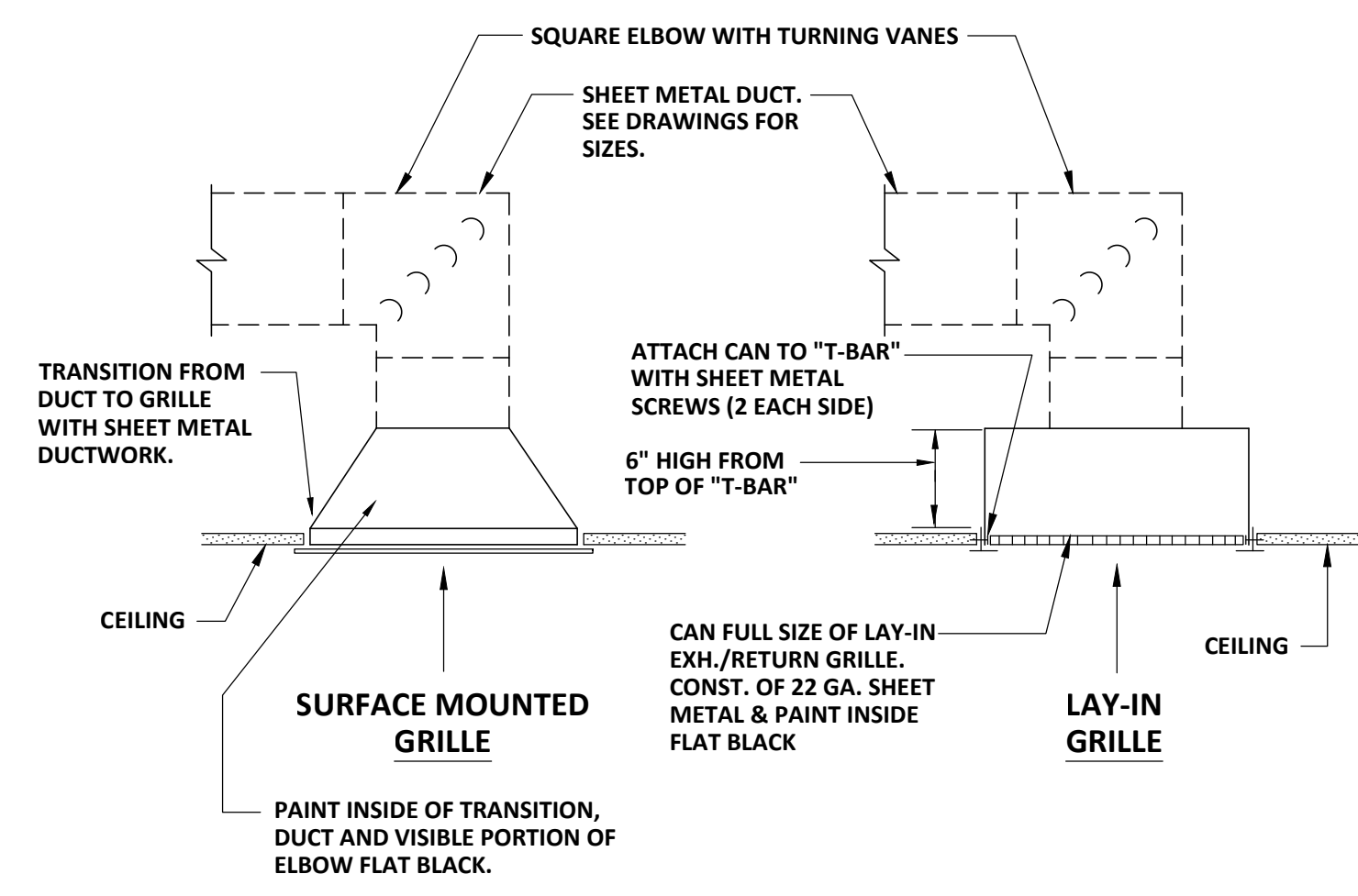
PFA
ENGINEERING
PRUETT, FORD & ASSOCIATES, INC.
LIC. NO. PE000760 EXP. 06/30/2020
1201 BROAD STREET, SUITE 3A
AUGUSTA, GEORGIA 30901
706/722-3599 • FAX 706/724-5277
WWW.PRUETTFORD.COM

1/4 1/2 3/4 1" REFERENCE SCALE
PLOT DATE: 05/13/20
FILENAME: 19087 M1
PLOT SCALE: 1 = 96
WGC

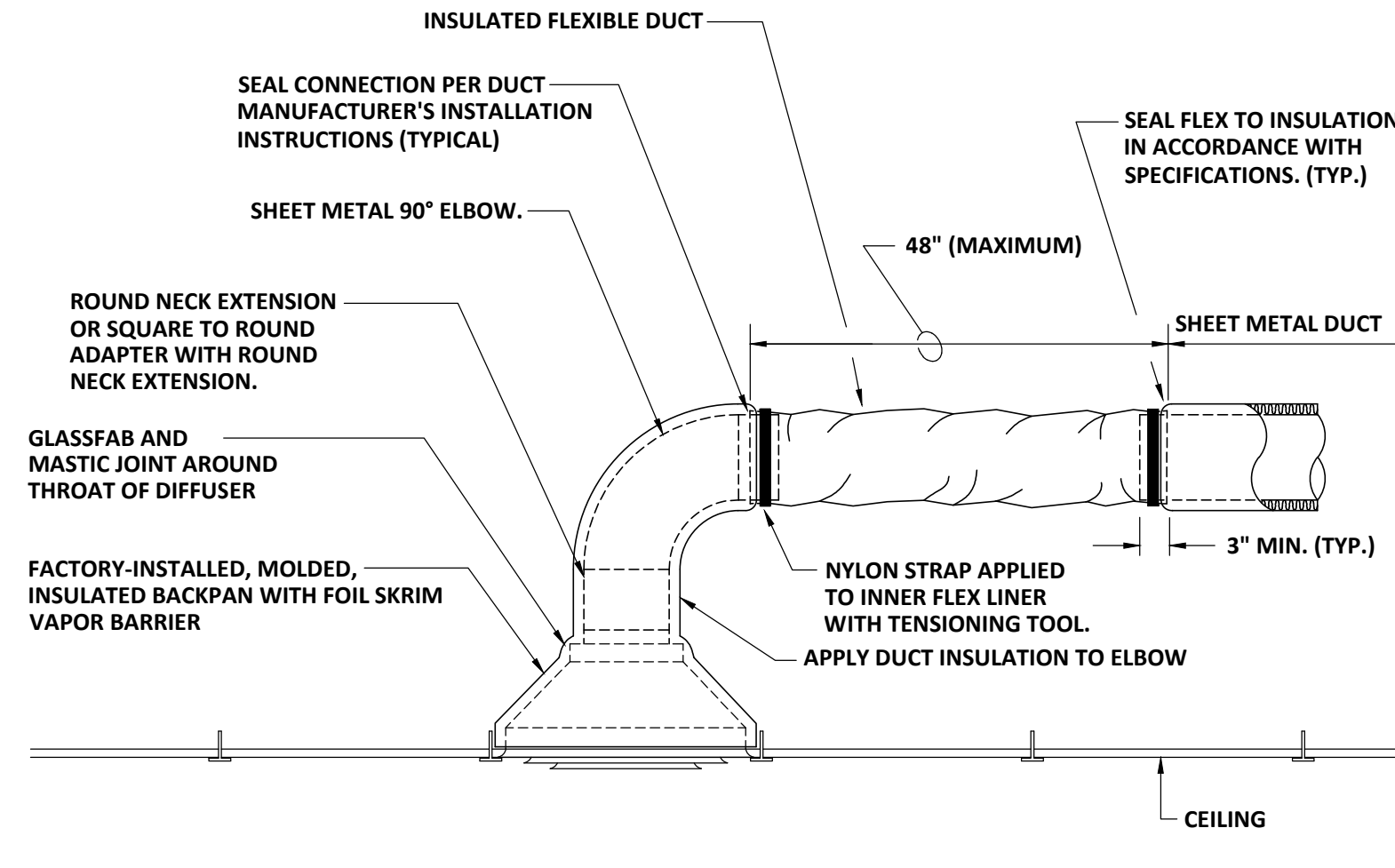
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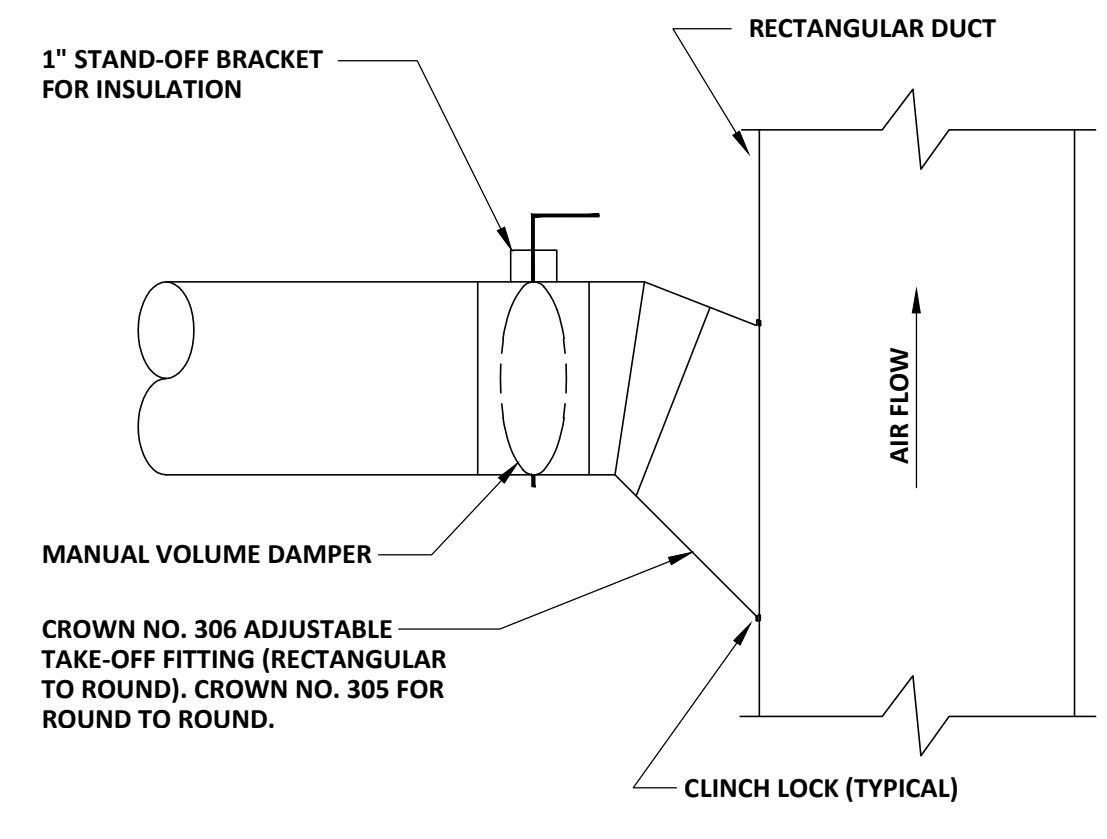
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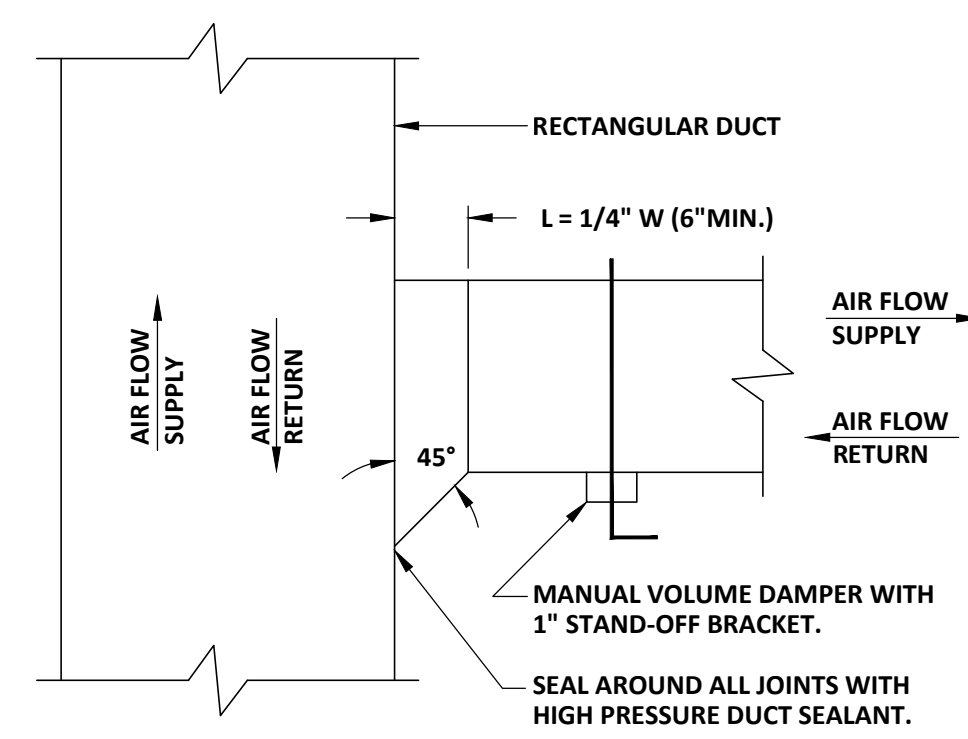
1 EXHAUST/RETURN GRILLE CONNECTION DETAILS
M3.01 NOT TO SCALE



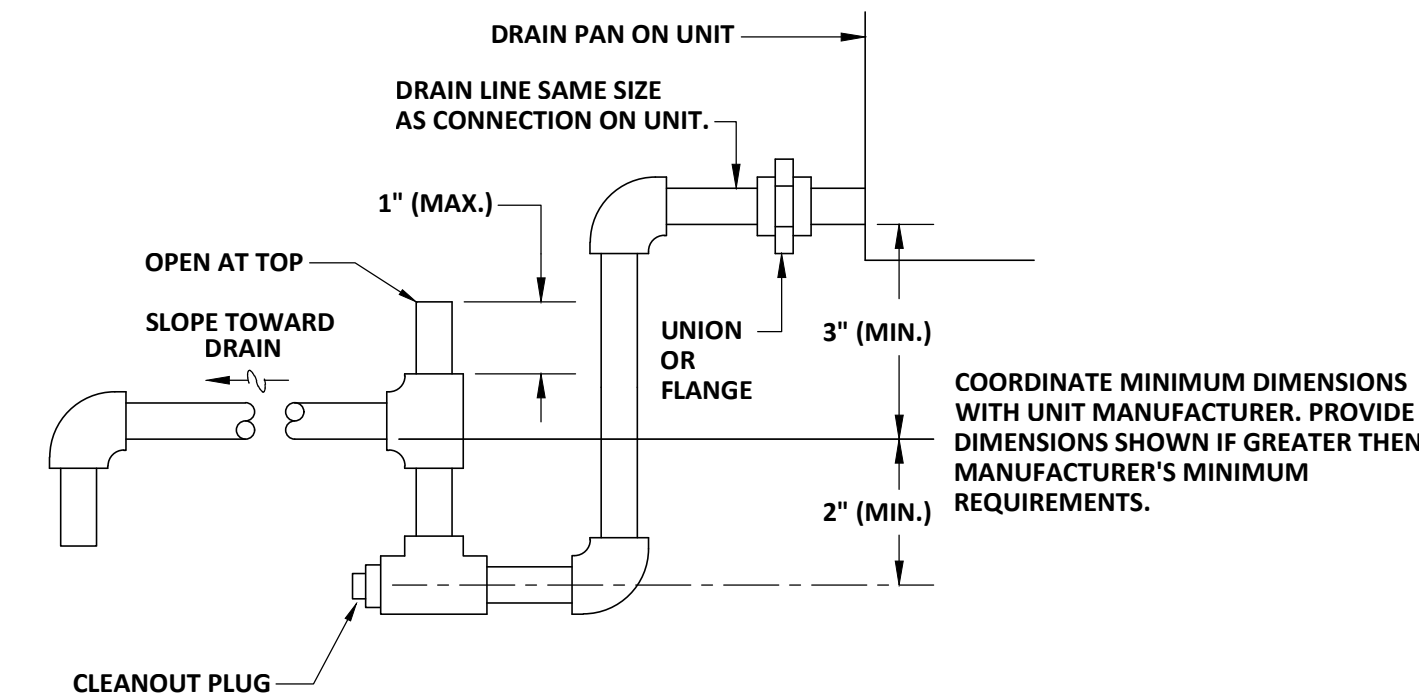
2 FLEXIBLE ROUND DUCT CONNECTION DETAIL
M3.01 NOT TO SCALE



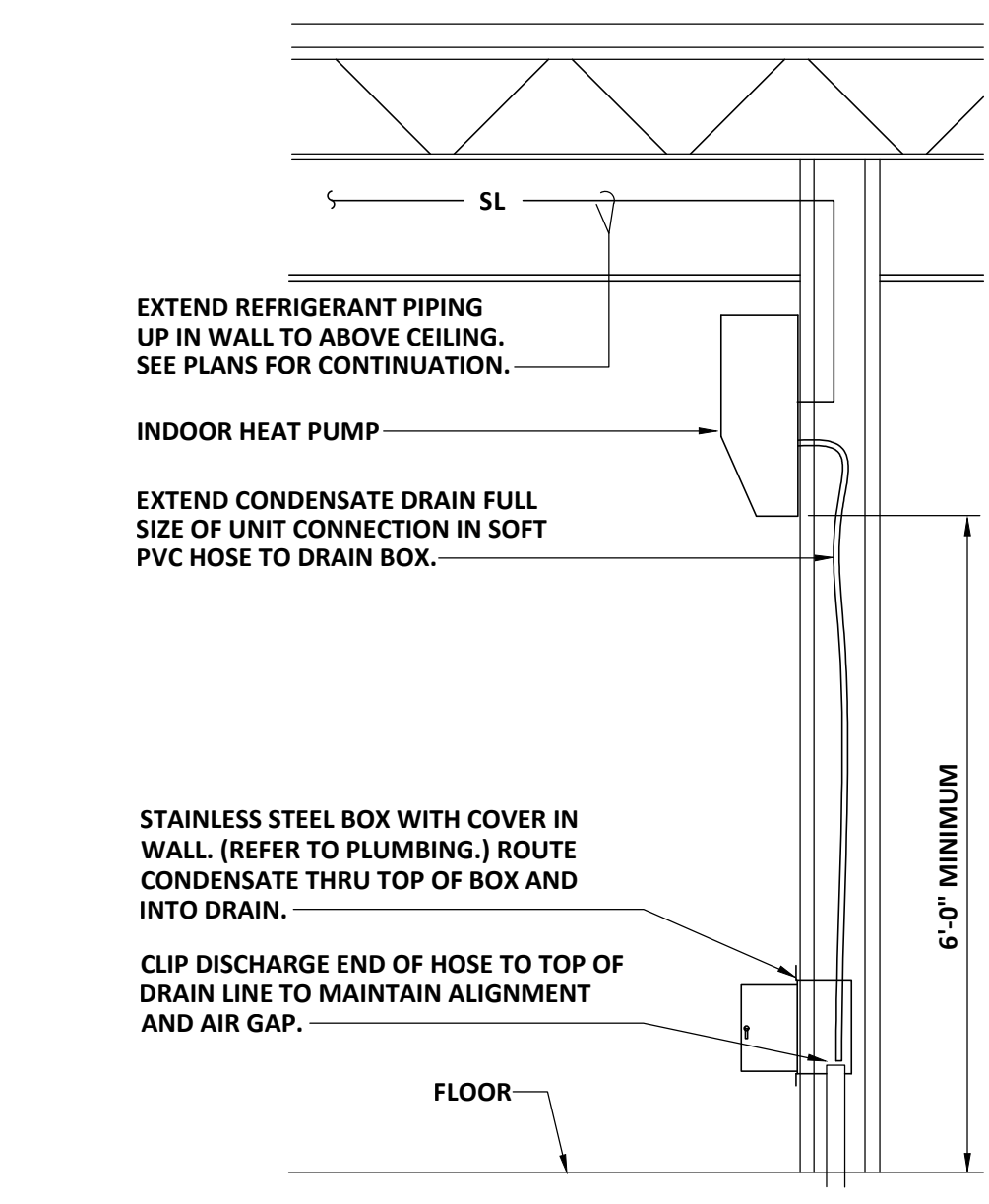
3 SUPPLY DUCT TAKE-OFF FITTING DETAIL
M3.01 NOT TO SCALE



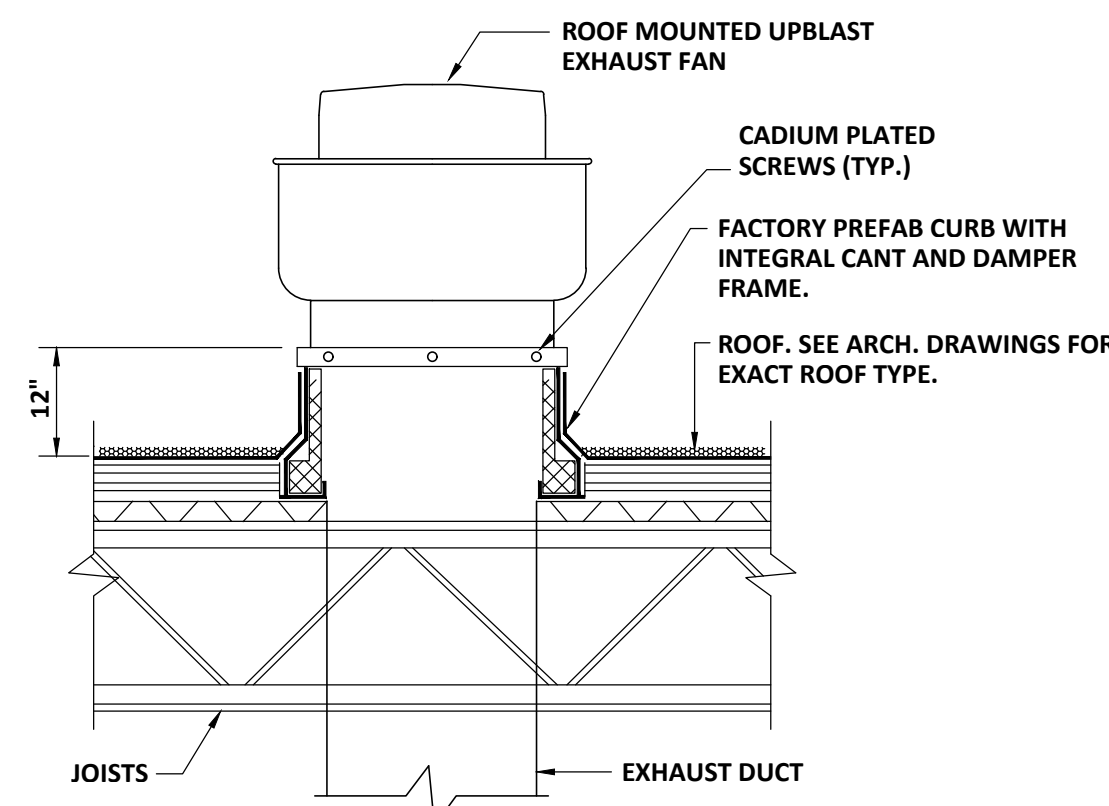
4 RECTANGULAR SUPPLY AND RETURN DUCT TAKE-OFF DETAIL
M3.01 NOT TO SCALE



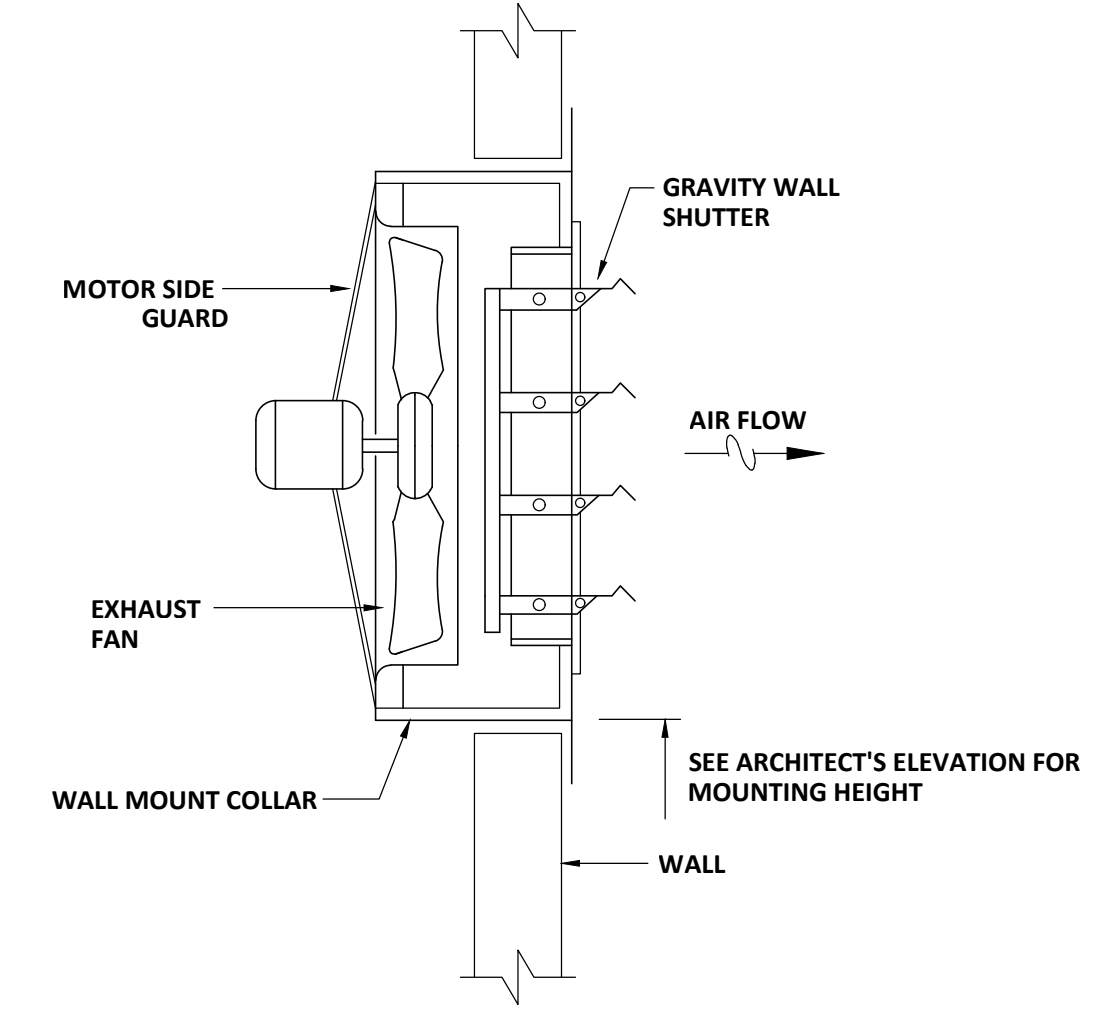
5 CONDENSATE DRAIN TRAP DETAIL
M3.01 NOT TO SCALE



6 SECTION @ INDOOR HEAT PUMP
M3.01 NOT TO SCALE



7 ROOF MOUNTED UPBLAST EXHAUST FAN DETAIL
M3.01 NOT TO SCALE



8 WALL MOUNTED EXHAUST FAN DETAIL
M3.01 NOT TO SCALE

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ENGINEERING
PRUETT, FORD & ASSOCIATES, INC.
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1" REFERENCE SCALE
PLOT DATE: 05/13/20
FILENAME: 19087 M1
PLOT SCALE: 1 = 96
WGC

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2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

35 Abercorn Street, Suite 200
Savannah, GA 31401
T 912.226.1667
GMC NETWORK . COM

BGWSC Project No. 906
GMC Project # CSAV190007

ISSUE	DATE	DESCRIPTION
100% SUBMITTAL	12.16.2019	30% SUBMISSION
70% SUBMITTAL	03.12.2020	70% SUBMISSION
100% SUBMITTAL	03.12.2020	100% SUBMISSION
CONSTRUCTION SUBMITTAL	06.01.2020	CONSTRUCTION SUBMITTAL

PROJECT MANAGER: JCY
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AU

1" SCALE
IF THIS BAR DOES NOT MEASURE ONE INCH DRAWING IS NOT LABELED TO SCALE



HVAC DETAILS

M-301

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

-- INDOOR HEAT PUMP SCHEDULE --

ITEM	SUPPLY C.F.M.	EXT. S.P. (IN.) W.C.	O.A. C.F.M.	FAN HP.	DRIVE	COOLING CAP. BTUH (1)		AUX. HEAT		MITSUBISHI MODEL NO.	REMARKS
						SENSIBLE	TOTAL	K.W.	STGS.		
IHP-1	700	--	--	1.0 A	DIRECT	--	34,200	--	--	MITSUBISHI PKA-A36KA	--
IHP-2	700	--	--	1.0 A	DIRECT	--	34,200	--	--	MITSUBISHI PKA-A36KA	--
IHP-3	2541	--	--	--	DIRECT	--	96,000	--	--	MITSUBISHI PEFY-P96	--
IHP1-1	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP1-2	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP1-3	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP1-4	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP1-5	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP1-6	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP2-1	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-2	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-3	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-4	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-5	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-6	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-7	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-8	812	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PLFY-EP24	--
IHP2-9	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP2-10	335	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PLFY-P12	--
IHP2-11	920	--	--	1.0 A	DIRECT	--	30,000	--	--	MITSUBISHI PKFY-P30	--
IHP2-12	920	--	--	1.0 A	DIRECT	--	30,000	--	--	MITSUBISHI PKFY-P30	--
IHP2-13	920	--	--	1.0 A	DIRECT	--	30,000	--	--	MITSUBISHI PKFY-P30	--
IHP2-14	413	--	--	1.0 A	DIRECT	--	8,000	--	--	MITSUBISHI PKFY-P08	--
IHP2-15	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP2-16	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP2-17	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP2-18	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP2-19	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP2-20	413	--	--	1.0 A	DIRECT	--	12,000	--	--	MITSUBISHI PKFY-P12	--
IHP2-21	210	--	--	1.0 A	DIRECT	--	6,000	--	--	MITSUBISHI PKFY-P06	--
IHP3-1	920	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PKFY-P24	(6)
IHP3-2	920	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PKFY-P24	(6)
IHP3-3	920	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PKFY-P24	(6)
IHP3-4	920	--	--	1.0 A	DIRECT	--	24,000	--	--	MITSUBISHI PKFY-P24	(6)
IHP3-5	1095	--	--	1.0 A	DIRECT	--	36,000	--	--	MITSUBISHI PLFY-EP36	--
IHP3-6	1095	--	--	1.0 A	DIRECT	--	36,000	--	--	MITSUBISHI PLFY-EP36	--

- (1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
- (2) FURNISH DUAL-CIRCUIT SPLIT FACE COIL.
- (3) UNIT TO HAVE CO2 CONTROLS. OUTSIDE AIR VALUES NOTED ARE MINIMUM/MAXIMUM.
- (4) UNIT TO HAVE ECONOMIZER CONTROLS. REFER TO PLAN FOR DAMPER LOCATIONS.
- (5) HORIZONTAL DRAW THRU UNIT WITH FAN SECTION, LARGE ACCESS SECTION (FOR AUX. HEATER), COIL SECTION AND FILTER MIXING BOX SECTION WITH ECONOMIZER CONTROLS.
- (6) FURNISH UNIT WITH RECTORSEAL MINI WHITE CONDENSATE PUMP.

-- OUTDOOR HEAT PUMP SCHEDULE --

ITEM	COOLING CAP. BTUH (1)	E.E.R. MIN.	HEATING CAP. M.B.H. (1)		C.O.P. (1)		MITSUBISHI MODEL NO.
			HI	LO	HI	LO	
OHP-1	34,200	14.0	-	-	-	--	MITSUBISHI PUY-A36
OHP-2	34,200	14.0	-	-	-	--	MITSUBISHI PUY-A36
OHP-3	96,000	13.4 EER	108.0	-	--	--	MITSUBISHI PUHY-P96

- (1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
- (2) FURNISH DUAL COMPRESSOR UNIT WITH INDEPENDENT REFRIGERATION CIRCUITS. IF NOT AVAILABLE, FURNISH TWO SINGLE COMPRESSOR UNITS AND ASSOCIATED ELECTRICAL MODIFICATIONS.
- (3) COOLING AND HEATING CAPACITY IS TOTAL NET CAPACITY FOR TWO UNITS.

-- CONDENSING UNIT SCHEDULE --

ITEM	SERVES	CAPACITY M.B.H.	E.E.R.	MANUF. MODEL NO.
CU-1	VRF	336.0	9.9	PURY-P336
CU-2	VRF	168.0	12.4	PUHY-EP168

-- BRANCH CONTROLLER SCHEDULE --

ITEM	# OF PORT SETS	SERVED FROM	MITSUBISHI MODEL NO.
BC-MAIN	16	CU-1	CMB-P1016
BC-SUB	8	BC-MAIN	CMB-P108
HEADER	10	CU-2	CMY-Y1010

- (1) REFRIGERANT PIPE SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.

-- FAN SCHEDULE --

ITEM	LOCATION	C.F.M.	S.P.	HP.	R.P.M.	MAX R.P.M.	MAX SONES	GREENHECK MODEL NO.	REMARKS
F-1	NOT USED	-	-	-	-	-	-	-	-
F-2	NOT USED	-	-	-	-	-	-	-	-
F-3	ROOF	950	0.5	1/6	1140	--	8.0	G-123-B	(1)(4)
F-4	ELECTRICAL	120	0.25	1/30	1550	--	5.0	SE1-8-440-D	(3)

- (1) COMPLETE WITH BACKDRAFT DAMPER, ROOF CURB, BIRDSCREEN AND DISCONNECT MEANS.
- (2) COMPLETE WITH BACKDRAFT DAMPER, ISOLATION HANGERS AND DISCONNECT MEANS.
- (3) CONTROL WITH THERMOSTAT SET AT 85" (ADJ.).
- (4) CONTROL WITH WALL SWITCH.

-- DEDICATED OUTDOOR AIR UNIT SCHEDULE --

ITEM	SUPPLY			COOLING COIL LAT (°F) DB/WB	HOT GAS REHEAT CAP. (MBH)	ELECTRIC HEAT		GREENHECK MODEL NO.	REMARKS (1)(2)
	CFM	ESP (IN. WG)	FAN HP			TOTAL KW	STAGES		
DOAS-1	1,400	0.5	3.0	54.4/54.2	51.1	30.0	SCR	RV-25-10S	--

- (1) PACKAGED DEDICATED OUTDOOR AIR UNIT COMPLETE WITH DIRECT DRIVE PLENUM SUPPLY FAN WITH FACTORY-MOUNTED VARIABLE FREQUENCY DRIVE, ELECTRIC HEATING COIL. (DIGITAL)INVERTER(STANDARD) SCROLL COMPRESSOR(S), MODULATING HOT GAS REHEAT, E.C. LEAD CONDENSER FAN, AND 2" PLEATED MERV 8 FILTERS.

-- REFRIGERATION PIPE SCHEDULE --

ITEM	SUCTION LINE O.D.	LIQUID LINE O.D.	REMARKS
IHP/OHP-1	5/8"	3/8"	(1)
IHP/OHP-2	5/8"	3/8"	(1)
IHP/OHP-3	7/8"	3/8"	(1)

- (1) REFRIGERANT PIPE SIZES INDICATED ARE FOR ESTIMATING PURPOSES ONLY. EXACT SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.

H.V.A.C. LEGEND

SYMBOL	DESCRIPTION
	REFRIGERANT SUCTION / LIQUID
	CONDENSATE DRAIN
	THERMOSTAT 4'-6" A.F.
	CUBIC FEET PER MINUTE
	DETAIL NO / SHEET NO. 1/M-1
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
	MANUAL VOLUME DAMPER
	FLEXIBLE DUCT CONNECTION
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	SQUARE ELL WITH SINGLE THICK TURNING VANES
	AIR DEVICE NECK CONNECTION SIZE
	DIAMETER
Typ.	TYPICAL

HVAC NOTES:

NOT ALL EXISTING WORK IS SHOWN, AND THAT SHOWN IS IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXACT LOCATION, ARRANGEMENT, AND SIZES SHALL BE VERIFIED ON THE JOB BEFORE STARTING ANY NEW WORK.

INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS ADJACENT TO WALLS AND CEILINGS WHERE POSSIBLE TO PROVIDE MAXIMUM ROOM CLEARANCE.

COORDINATE THE INSTALLATION OF WORK UNDER THIS DIVISION WITH THAT OF OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF PIPING, DUCTWORK, AND EQUIPMENT.

PIPING, DUCTWORK, AND EQUIPMENT IS SHOWN IN ITS GENERAL LOCATION UNLESS DIMENSIONED.

ARRANGE PIPING AND DUCTWORK TO CLEAR STRUCTURAL MEMBERS, PIPING AND LIGHT FIXTURES.

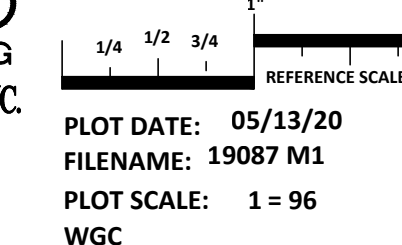
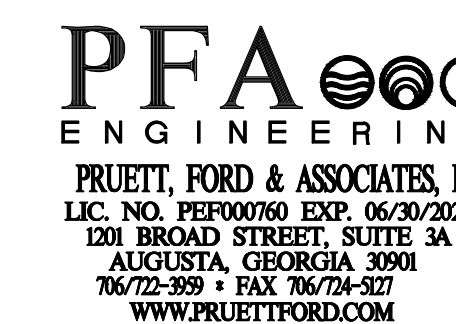
EXACT LOCATION OF GRILLES AND CEILING OUTLETS SHALL BE DETERMINED ON THE JOBSITE. COORDINATE WITH LIGHTS, SPRINKLER HEADS, AND OTHER CEILING APPURTENANCES TO PROVIDE A UNIFORM AND SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS AND DETAILS.

ALL PIPING SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.

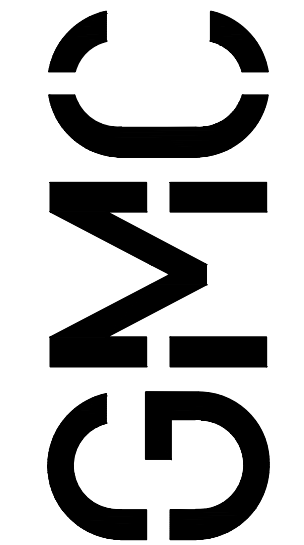
PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

PROVIDE ACCESS DOORS IN DUCTWORK FOR ALL FIRE AND SMOKE DAMPERS, DUCT-MOUNTED COILS, AND CONTROL DEVICES.

SLOPE DRAIN LINES TOWARD DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.



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2019 WPCF REHABILITATION ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
 35 Abercorn Street, Suite 200 Savannah, GA 31401
 ISSUE DATE 09.09.2019
 DATE 12.16.2019
 30% SUBMITTAL
 70% SUBMITTAL
 100% SUBMITTAL
 CONSTRUCTION SUBMITTAL
 PROJECT MANAGER: 06.01.2020 GMC NETWORK.COM
 ENGINEER: T 912.226.1667
 DESIGNER:
 DRAWN BY:
 IF THIS BAR DOES NOT MEASURE ONE INCH DRAWING IS NOT LABELED TO SCALE
 1" = 5'-0"
 1" = 5'-0"
 1" = 5'-0"

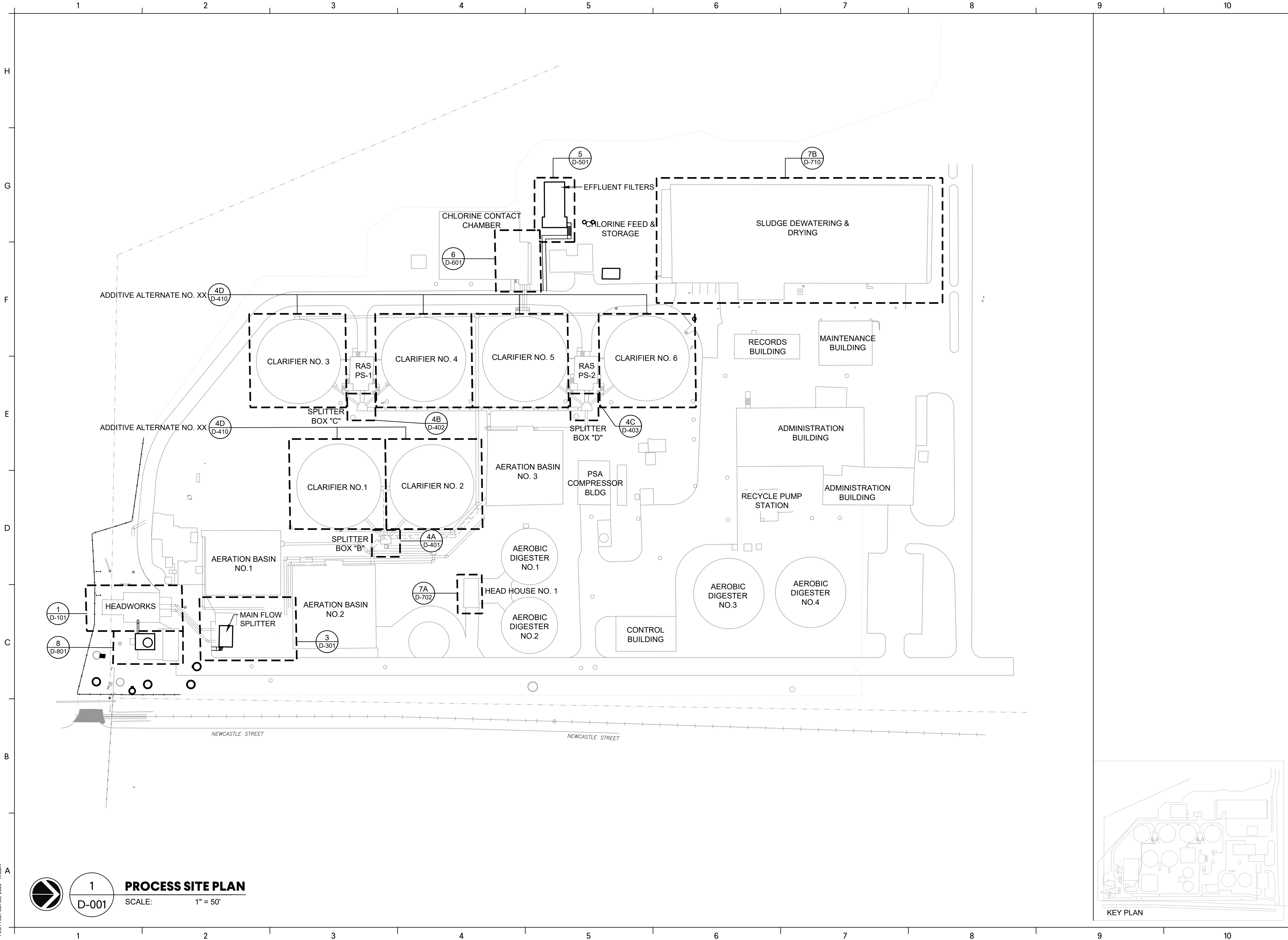
BGWSC Project No. 906
 GMC Project # CSAV190007



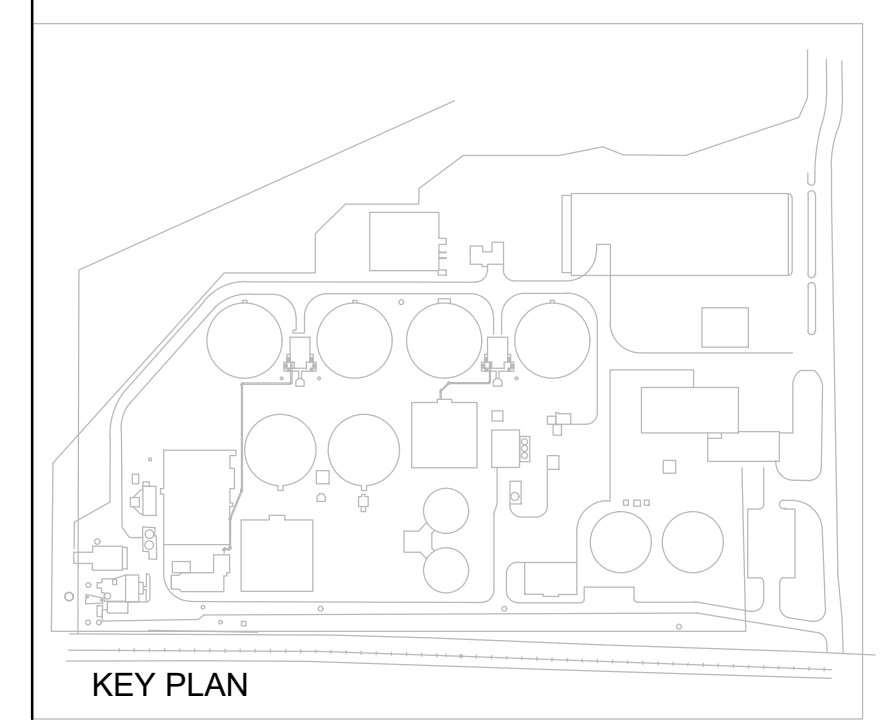
HVAC SCHEDULES, NOTES AND LEGEND
M-401

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PLOTTED: Jun 05, 2020 - 11:33am



1
D-001 **PROCESS SITE PLAN**
SCALE: 1" = 50'



KEY PLAN

**PROCESS SITE
PLAN - KEY**

D-001

**2019 WPCF REHABILITATION
ACADEMY CREEK**

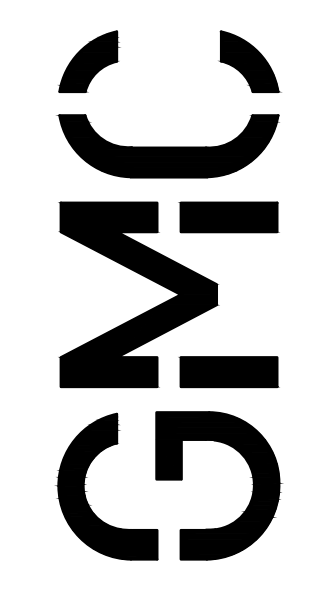
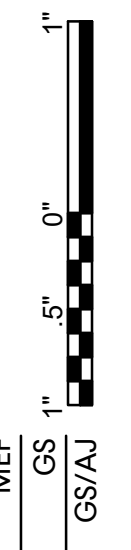
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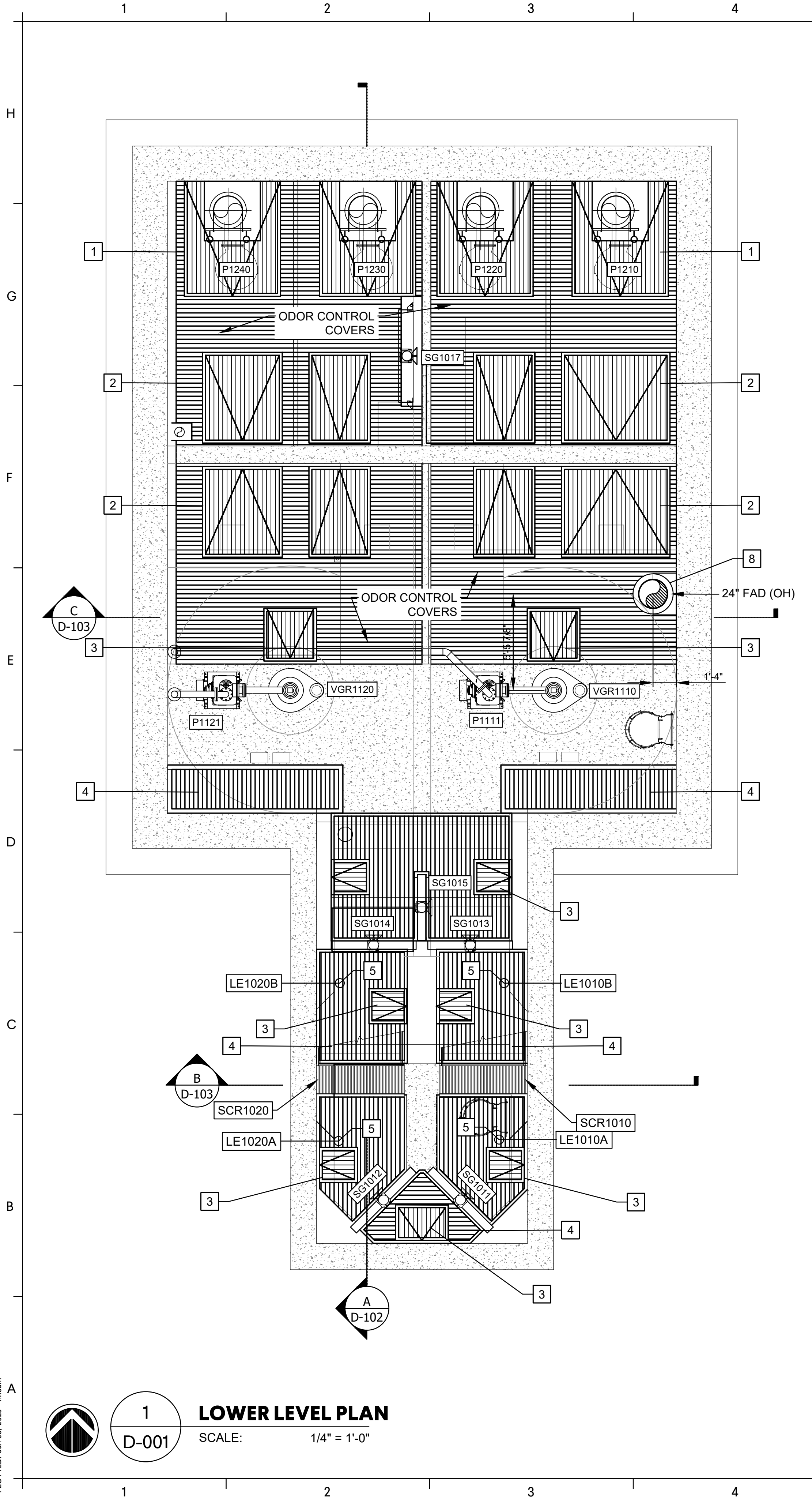


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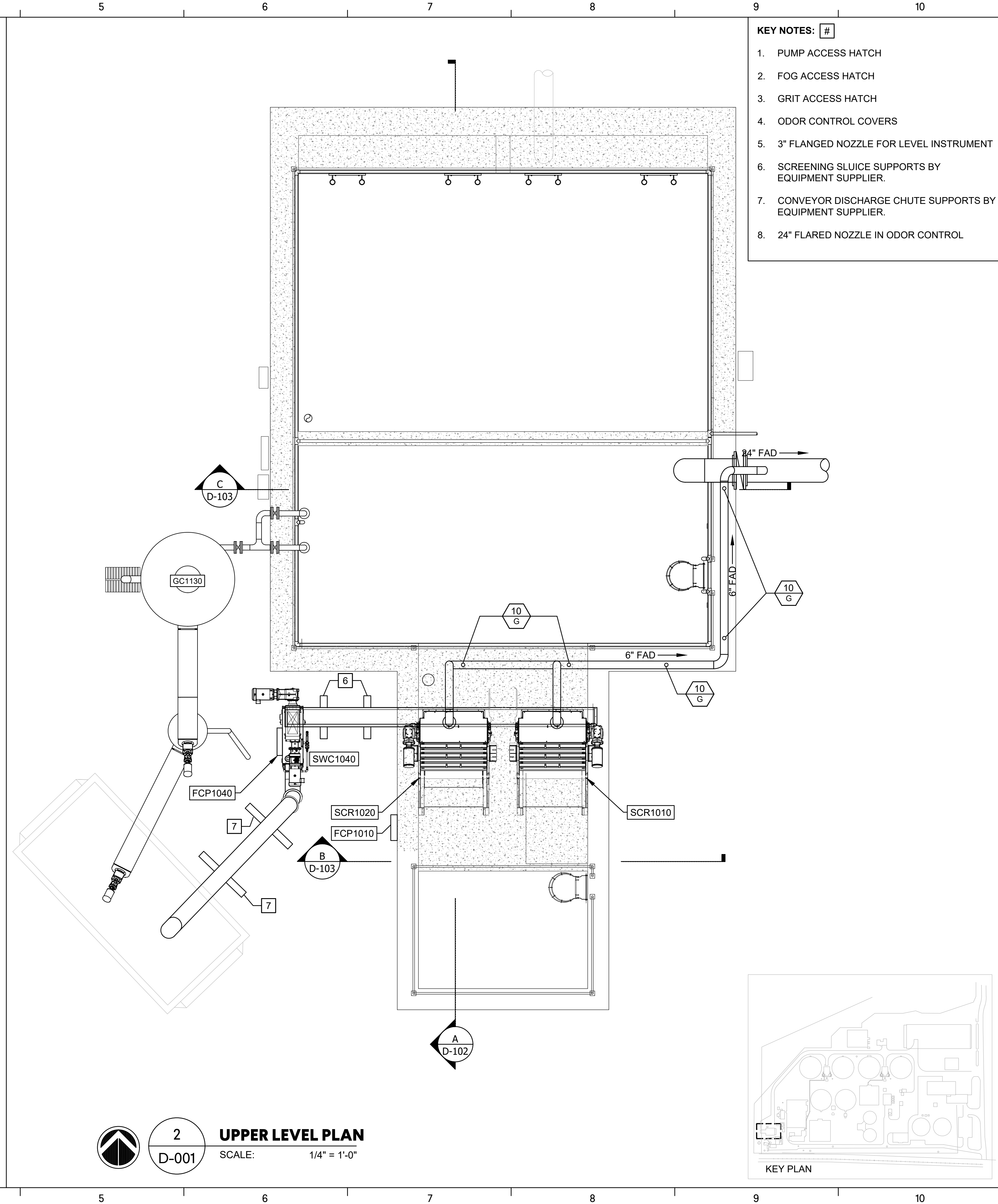
30% SUBMITTAL	09.09.2019	7 Congress Street, Suite 504
70% SUBMITTAL	12.16.2019	Savannah, GA 31401
100% SUBMITTAL	03.12.2020	T 912.655.6790
CONSTRUCTION SUBMITTAL	06.15.2020	GMCNETWORK.COM
PROJECT MANAGER:	JCV	
ENGINEER:	MEF	
DESIGNER:	GS	
DRAWN BY:	GS/AJ	



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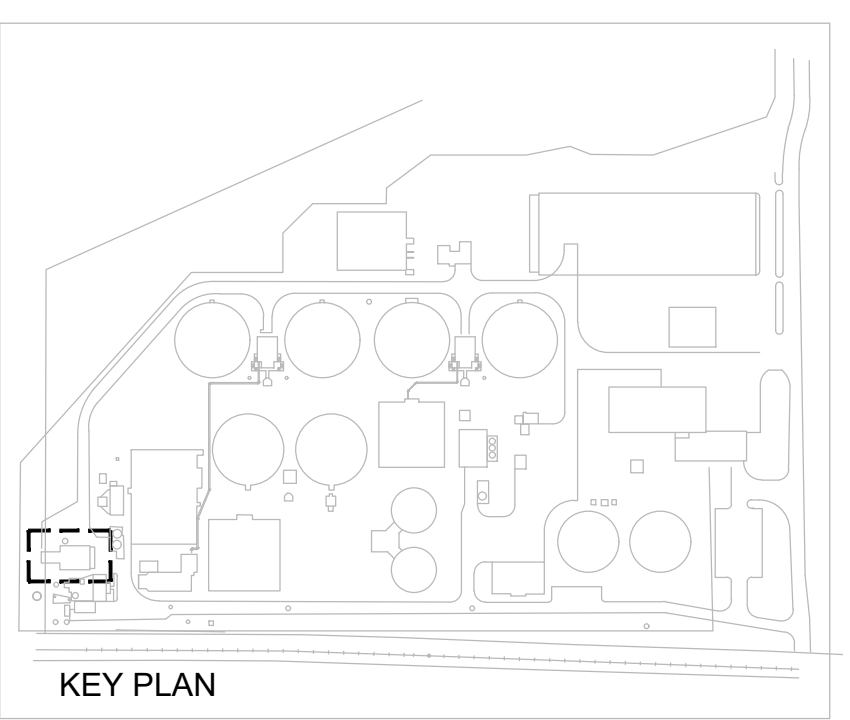


1 LOWER LEVEL PLAN
D-001 SCALE: 1/4" = 1'-0"



2 UPPER LEVEL PLAN
D-001 SCALE: 1/4" = 1'-0"

- KEY NOTES: #**
1. PUMP ACCESS HATCH
 2. FOG ACCESS HATCH
 3. GRIT ACCESS HATCH
 4. ODOR CONTROL COVERS
 5. 3" FLANGED NOZZLE FOR LEVEL INSTRUMENT
 6. SCREENING SLUICE SUPPORTS BY EQUIPMENT SUPPLIER.
 7. CONVEYOR DISCHARGE CHUTE SUPPORTS BY EQUIPMENT SUPPLIER.
 8. 24" FLARED NOZZLE IN ODOR CONTROL



2019 WPCF REHABILITATION
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GMC

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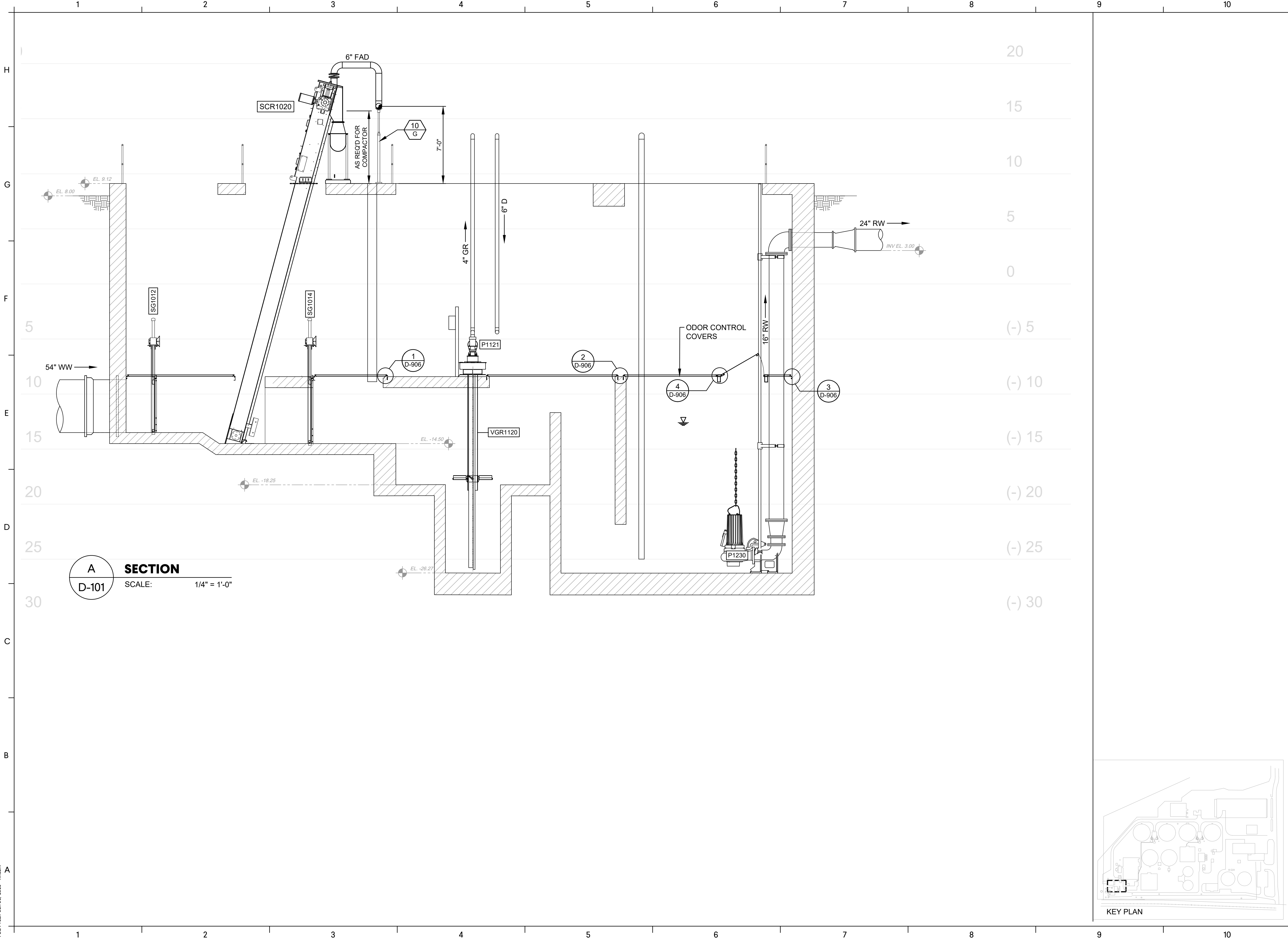
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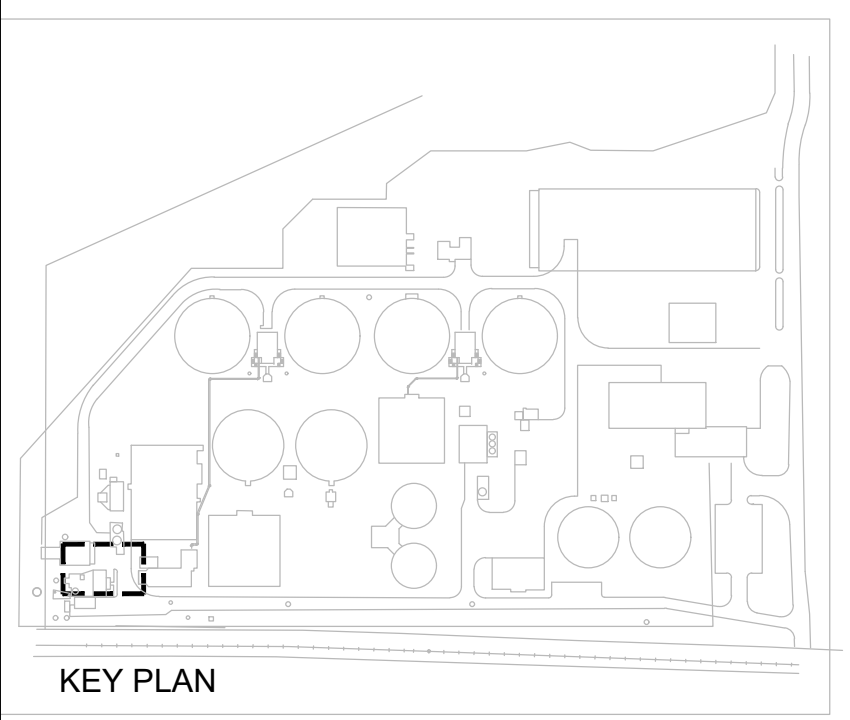
HEADWORKS
UPPER & LOWER LEVEL
PLAN

D-101

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A
D-101
SECTION
SCALE: 1/4" = 1'-0"



**HEADWORKS
SECTIONS**

D-102

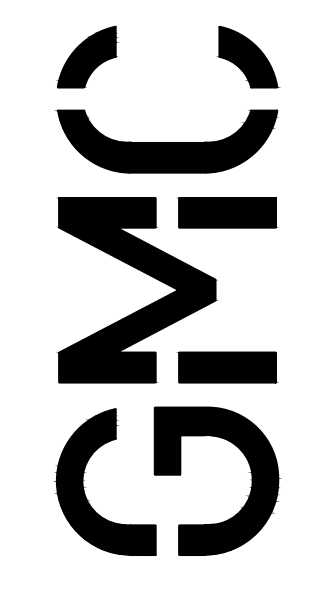
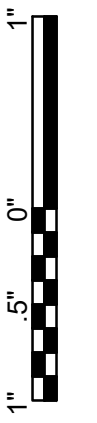
**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSA190007

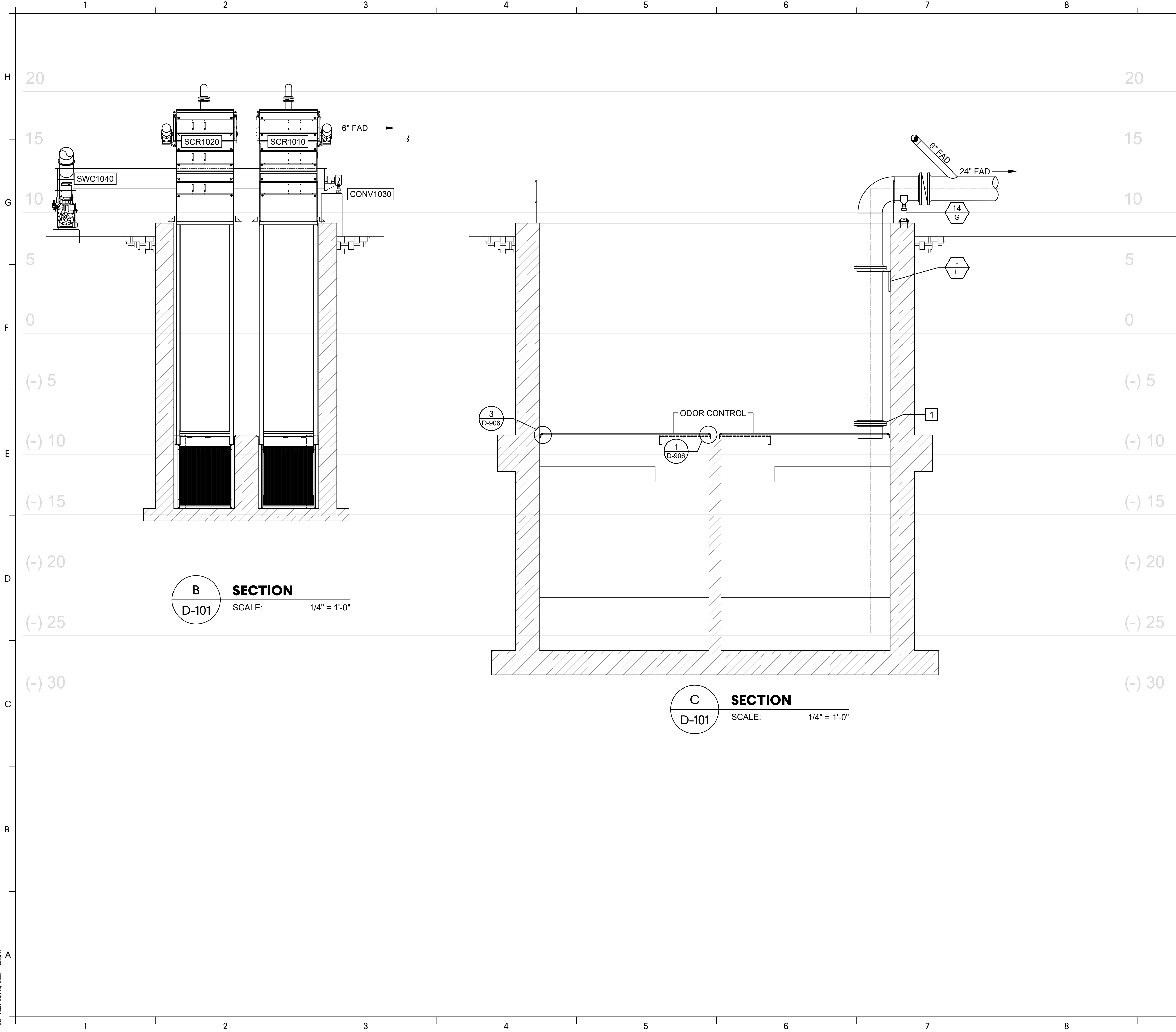


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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCY
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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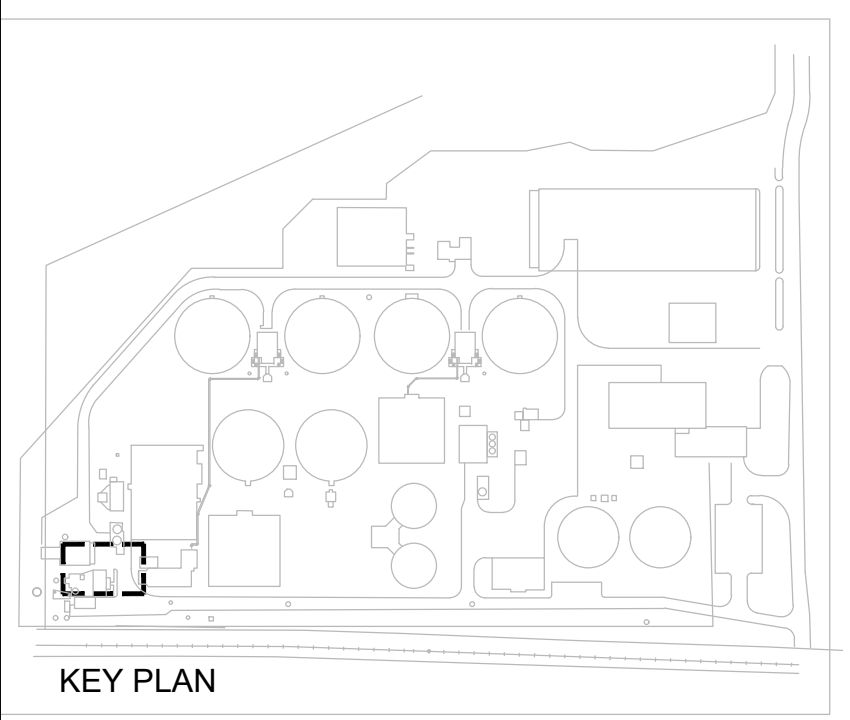


B SECTION
D-101 SCALE: 1/4" = 1'-0"

C SECTION
D-101 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. 24" FL NOZZLE IN ODOR COVER



KEY PLAN

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSA190007



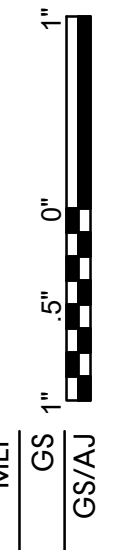
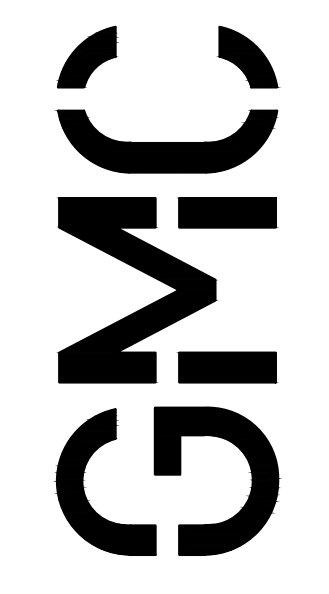
**HEADWORKS
SECTIONS**

D-103

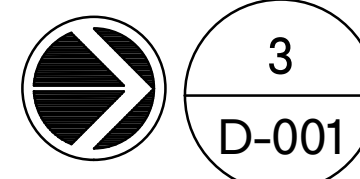
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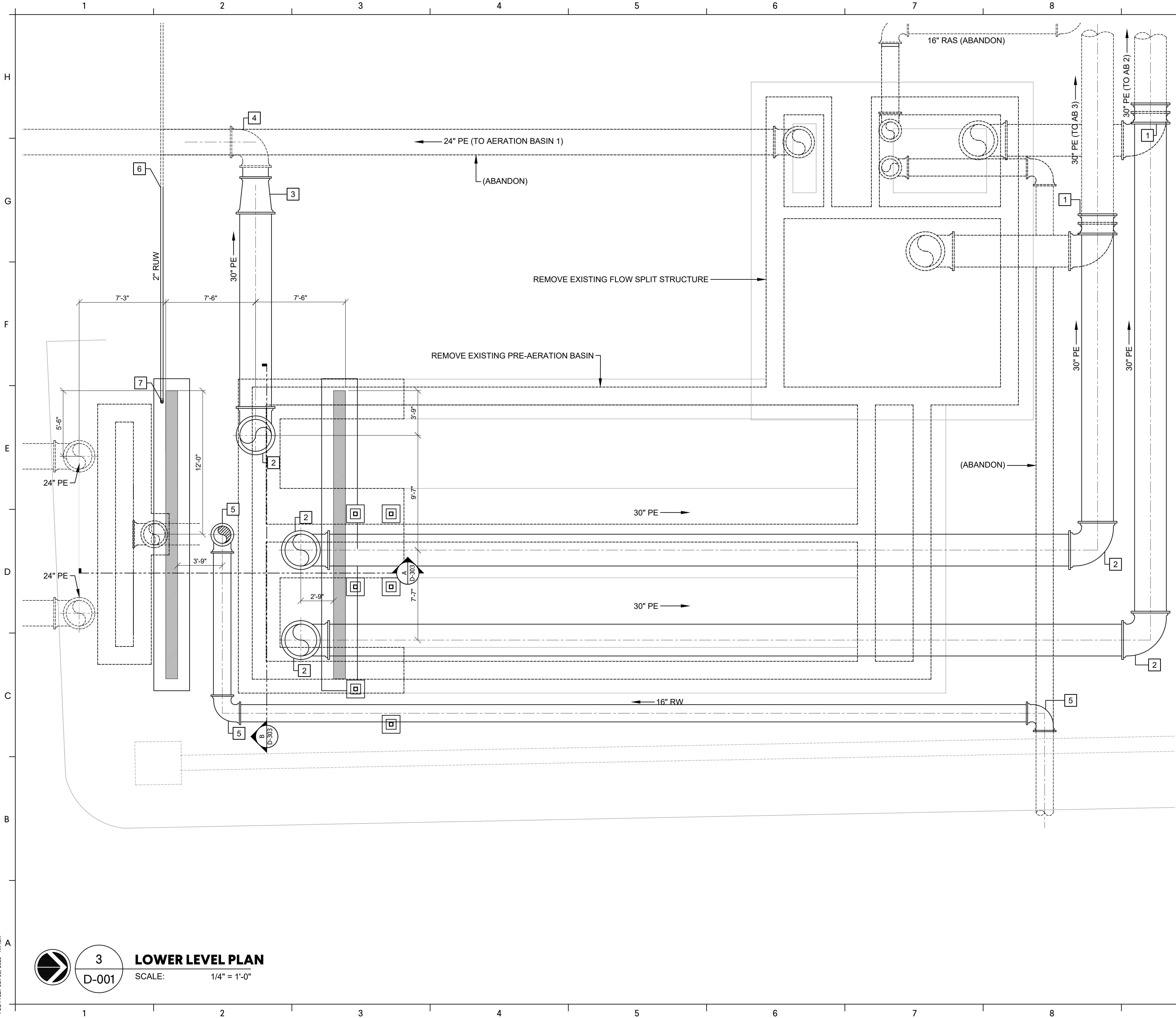


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3 LOWER LEVEL PLAN

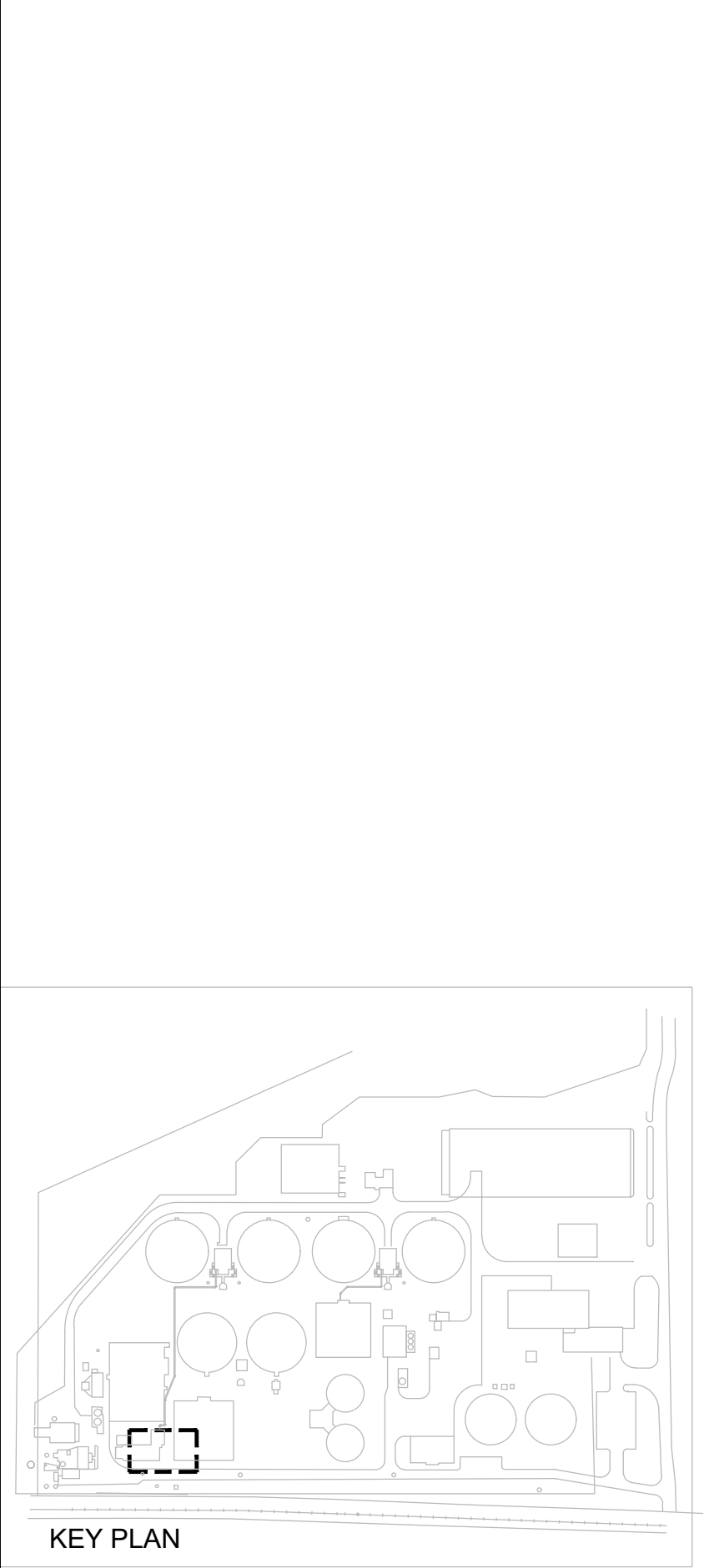
SCALE: 1/4" = 1'-0"



- KEY NOTES:** #
- 30" MJ SLEEVE - CONNECT TO EXISTING
 - 30" MJ 90° BEND
 - 30" x 24" MJ ECCENTRIC REDUCER FLAT ON TOP
 - 24" MJ 90° BEND - CONNECT TO EXISTING
 - 16" MJ 90° BEND (RESTRAINED)
 - CONNECT TO AND EXTEND 2" RUW
 - 2" RUW VERT, SECURE TO WALL WITH 2" 304 SST PIPE STRAPS @ 5' O.C. INSULATE AND HEAT TRACE ABOVE GROUND PORTION OF PIPE

ISSUE	DATE
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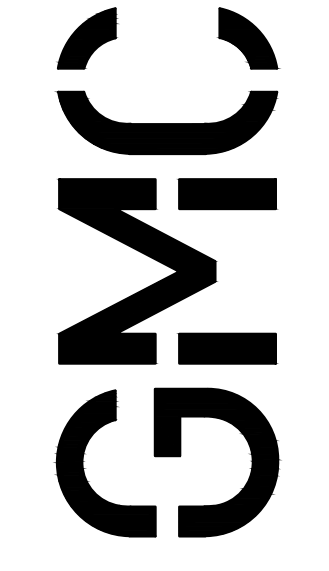


2019 WPCF REHABILITATION
ACADEMY CREEK
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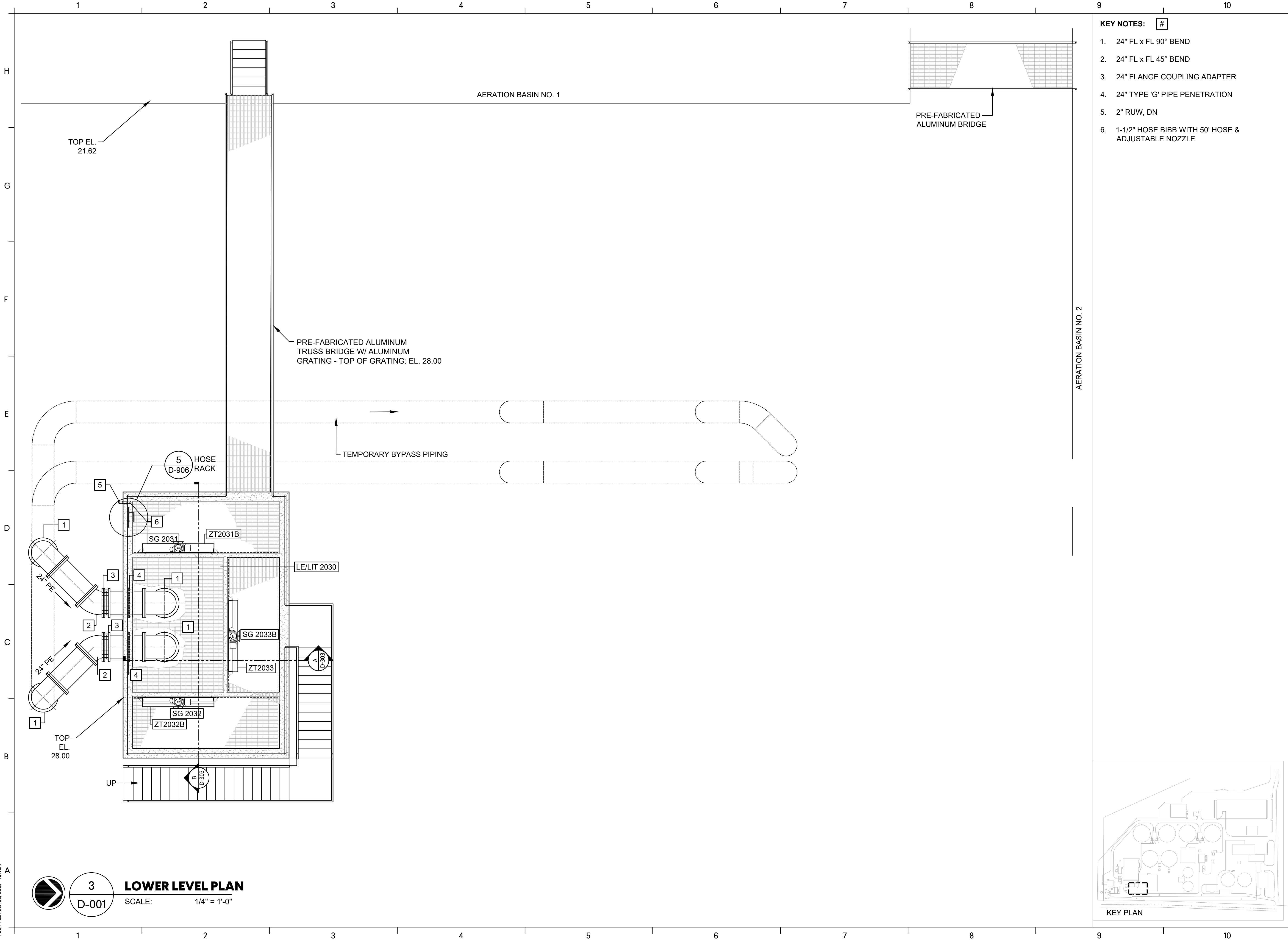
MAIN SPLITTER LOWER LEVEL PLAN

D-301

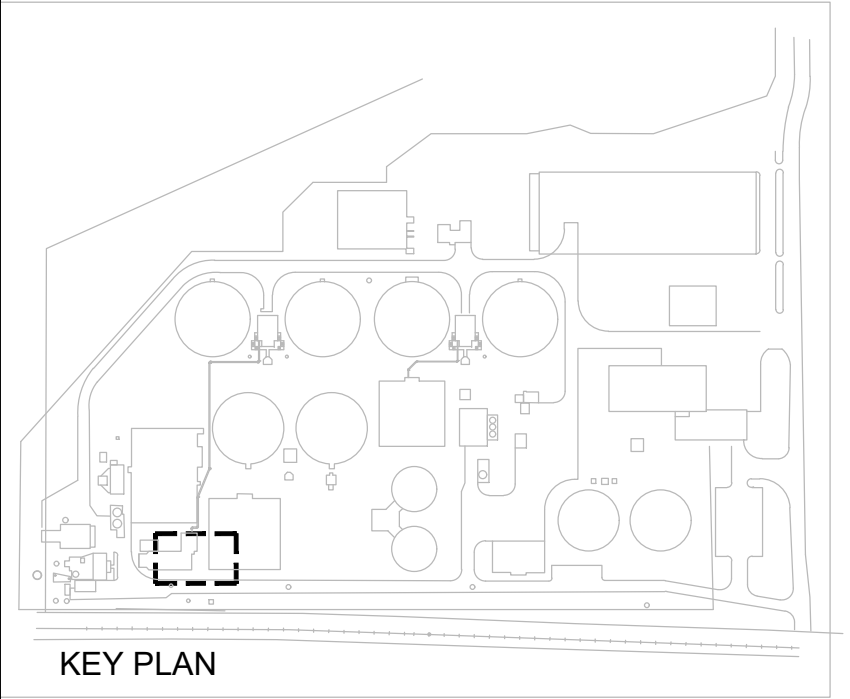


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3 LOWER LEVEL PLAN
D-001 SCALE: 1/4" = 1'-0"



- KEY NOTES:**
1. 24" FL x FL 90° BEND
 2. 24" FL x FL 45° BEND
 3. 24" FLANGE COUPLING ADAPTER
 4. 24" TYPE 'G' PIPE PENETRATION
 5. 2" RUW, DN
 6. 1-1/2" HOSE BIBB WITH 50' HOSE & ADJUSTABLE NOZZLE

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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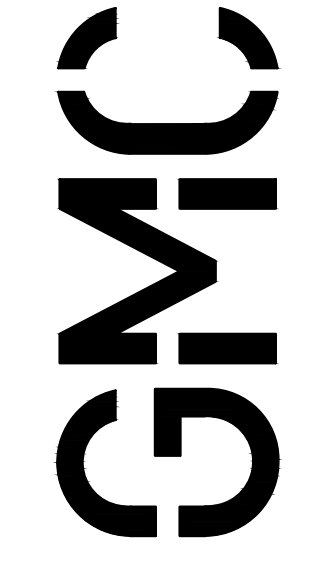


MAIN SPLITTER
UPPER LEVEL PLAN

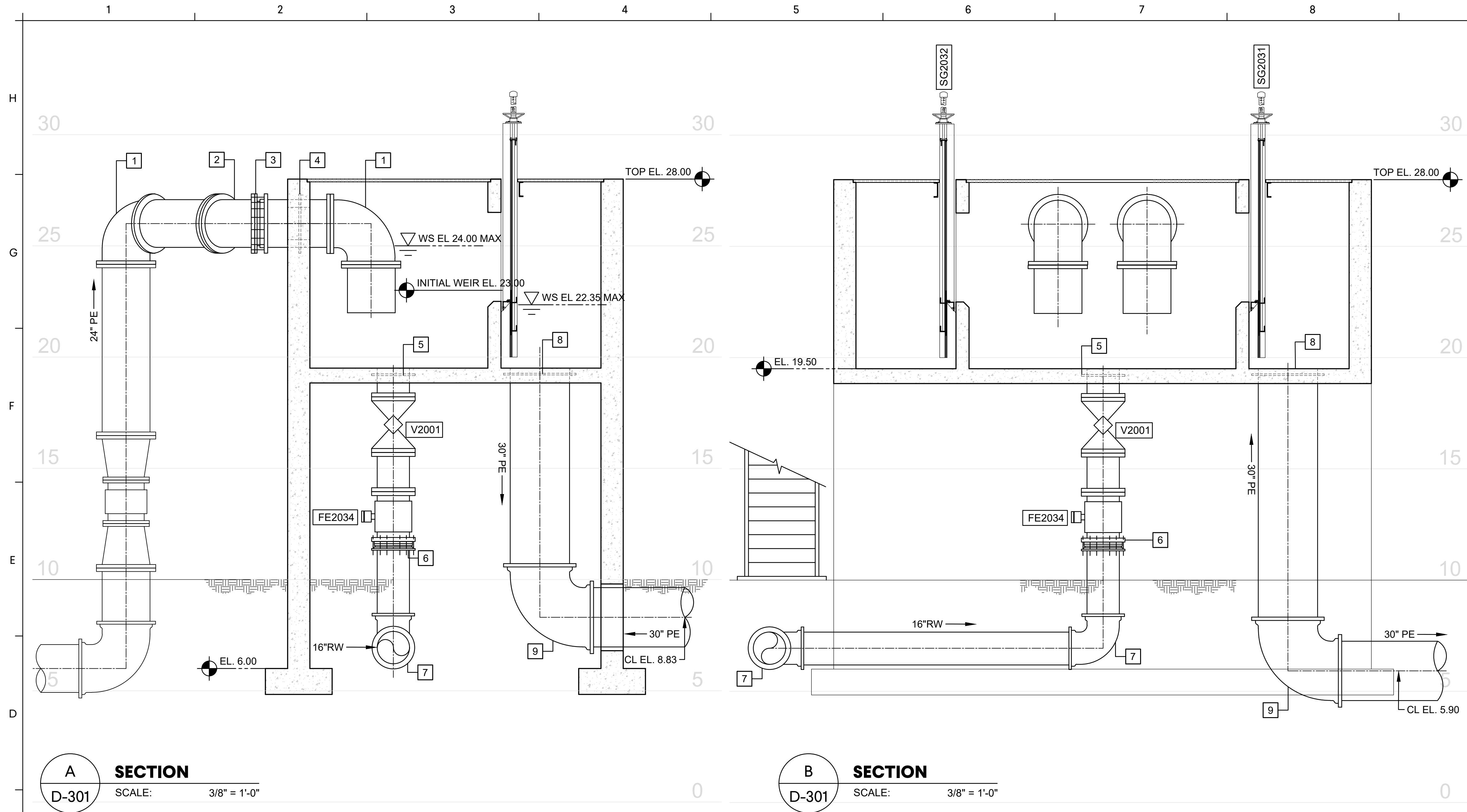
D-302

ISSUE	DATE
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CONSTRUCTION SUBMITTAL	06.15.2020
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DESIGNER:	GS
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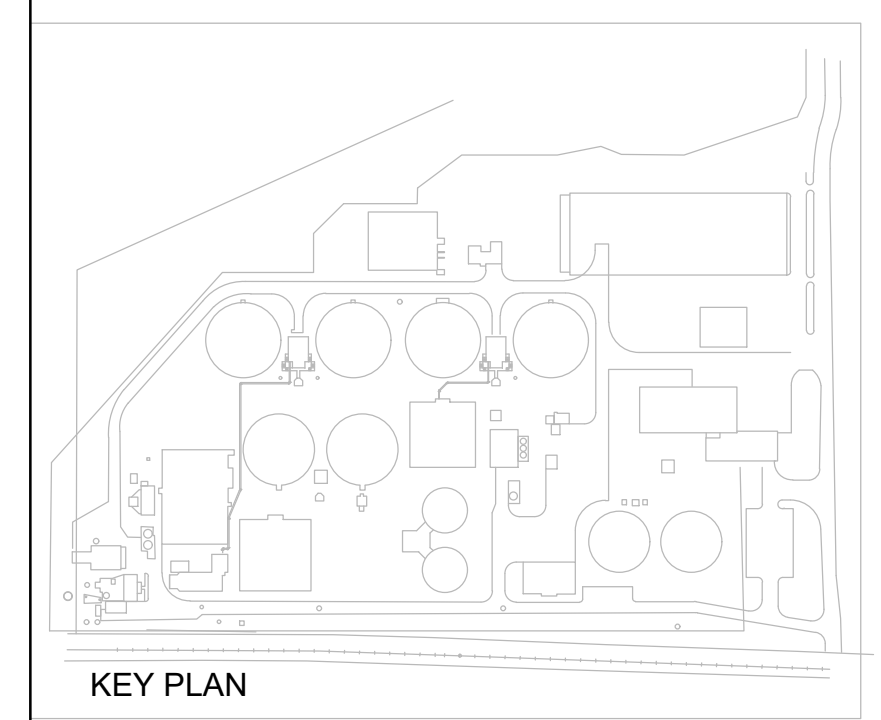
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- KEY NOTES:**
1. 24" FL x FL 90° BEND
 2. 24" FL x FL 45° BEND
 3. 24" FLANGE COUPLING ADAPTER
 4. 24" TYPE 'G' PIPE PENETRATION
 5. 16" TYPE 'H' PIPE PENETRATION
 6. 16" FLANGE COUPLING ADAPTER
 7. 16" MJ 90° BEND (RESTRAINED)
 8. 30" TYPE 'H' PIPE PENETRATION
 9. 30" MJ 90° BEND



2019 WPCF REHABILITATION
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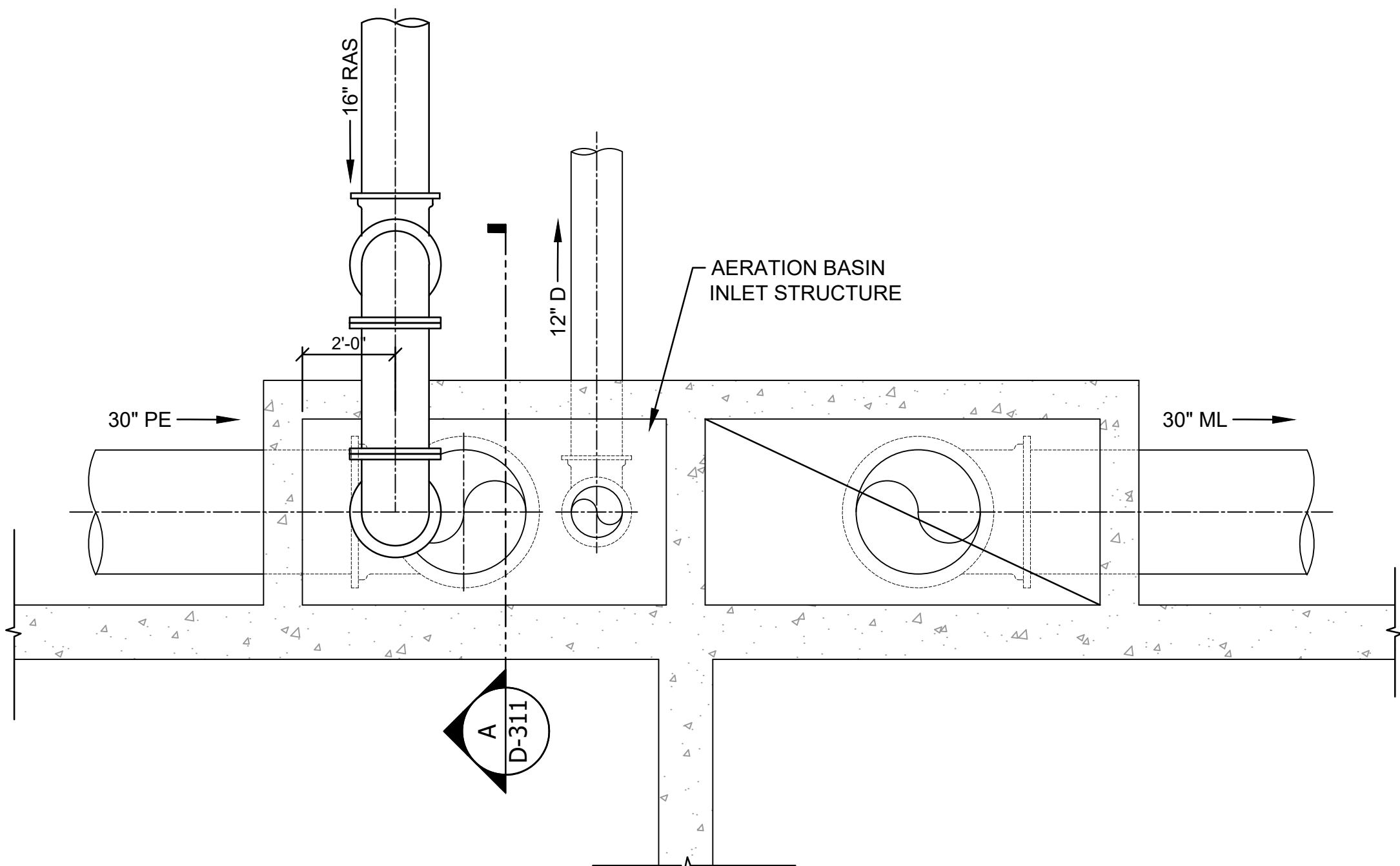
PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

MAIN SPLITTER SECTIONS

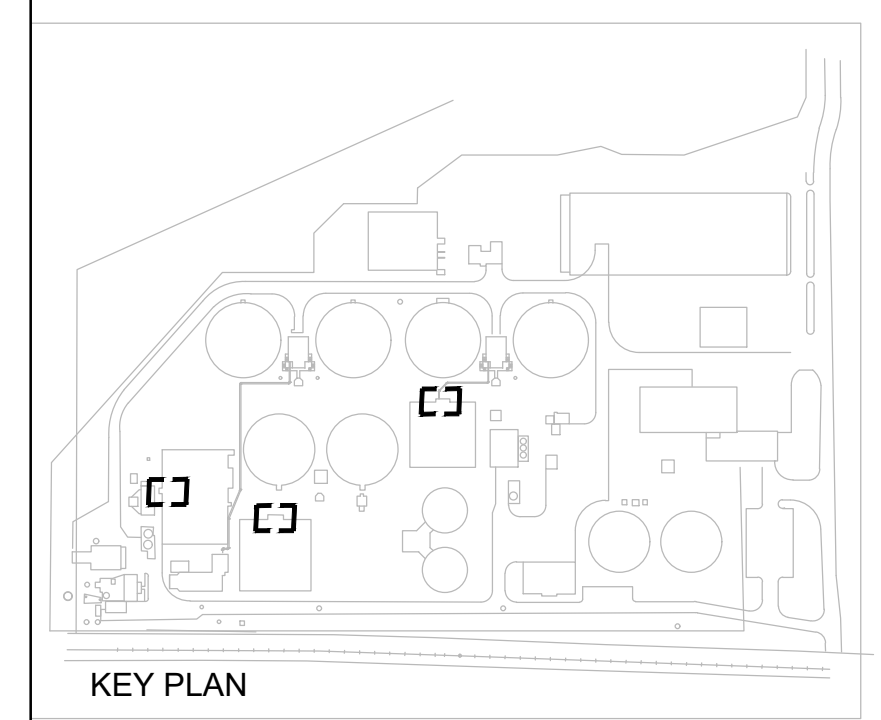
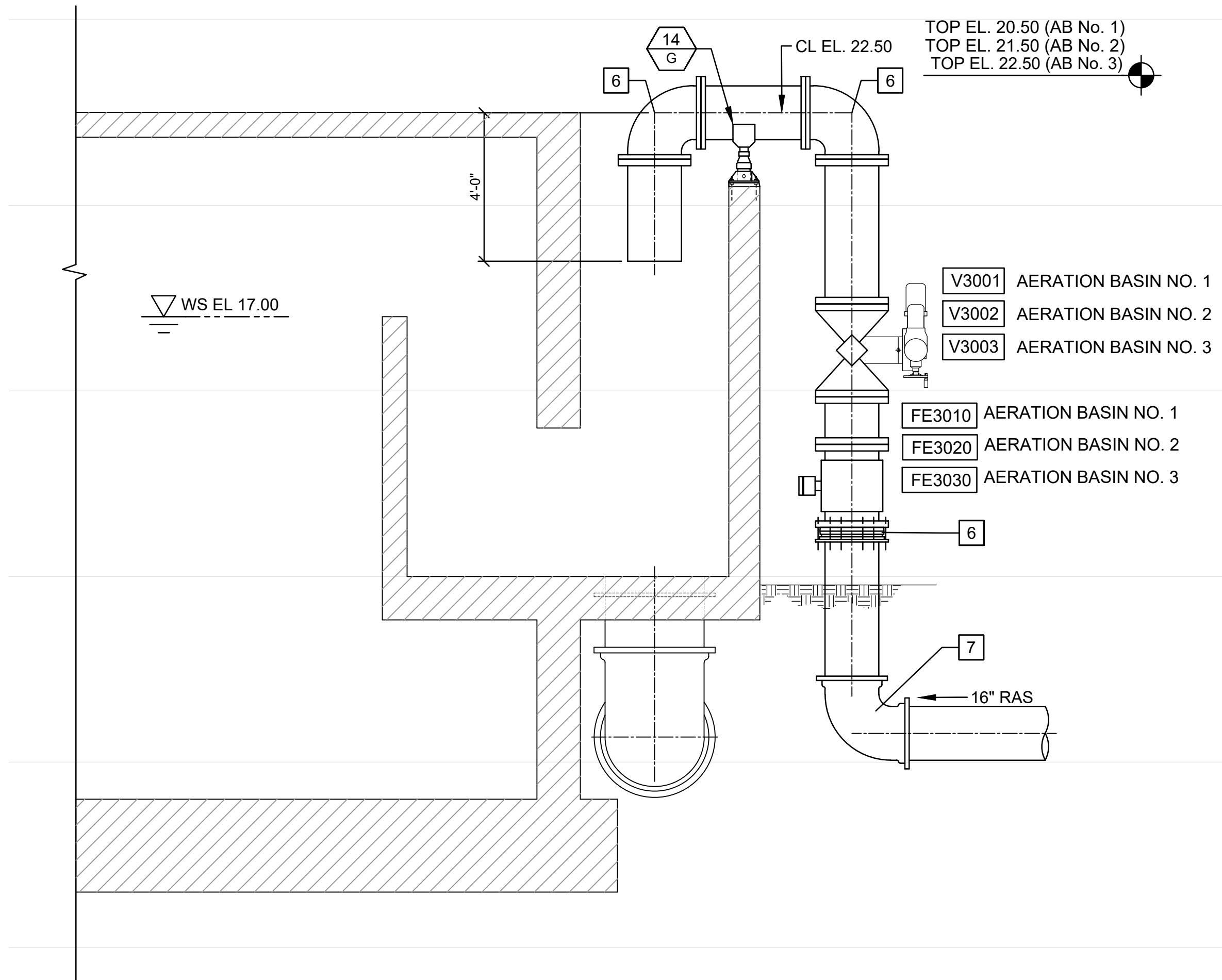
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1 RAS FEED MODIFICATIONS AERATION BASIN 3
SCALE: 3/8" = 1'-0"
(AERATION BASIN 1 & 2 SIMILAR)



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



- KEY NOTES: #**
- 24" FL x FL 90° BEND
 - 24" FL x FL 45° BEND
 - 24" FLANGE COUPLING ADAPTER
 - 24" TYPE 'G' PIPE PENETRATION
 - 16" TYPE 'H' PIPE PENETRATION
 - 16" FLANGE COUPLING ADAPTER
 - 16" MJ 90° BEND (RESTRAINED)
 - 30" TYPE 'H' PIPE PENETRATION
 - 30" MJ 90° BEND

- V3001 AERATION BASIN NO. 1
- V3002 AERATION BASIN NO. 2
- V3003 AERATION BASIN NO. 3
- FE3010 AERATION BASIN NO. 1
- FE3020 AERATION BASIN NO. 2
- FE3030 AERATION BASIN NO. 3

**RAS MODIFICATION
PLAN & SECTION**

**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

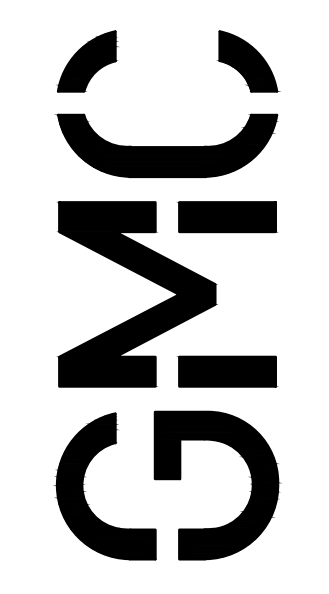


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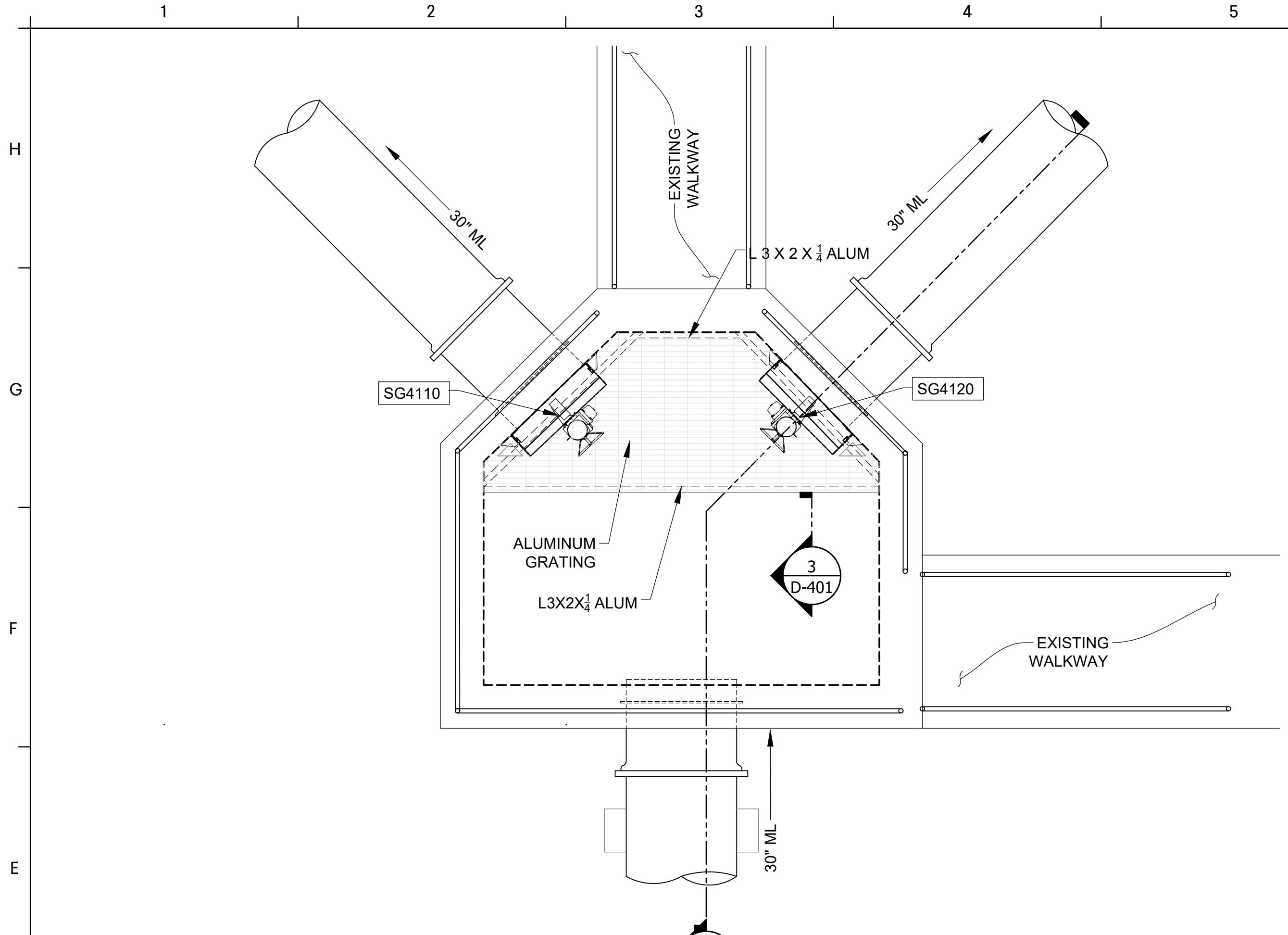
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DRAWN BY:	GS/AJ

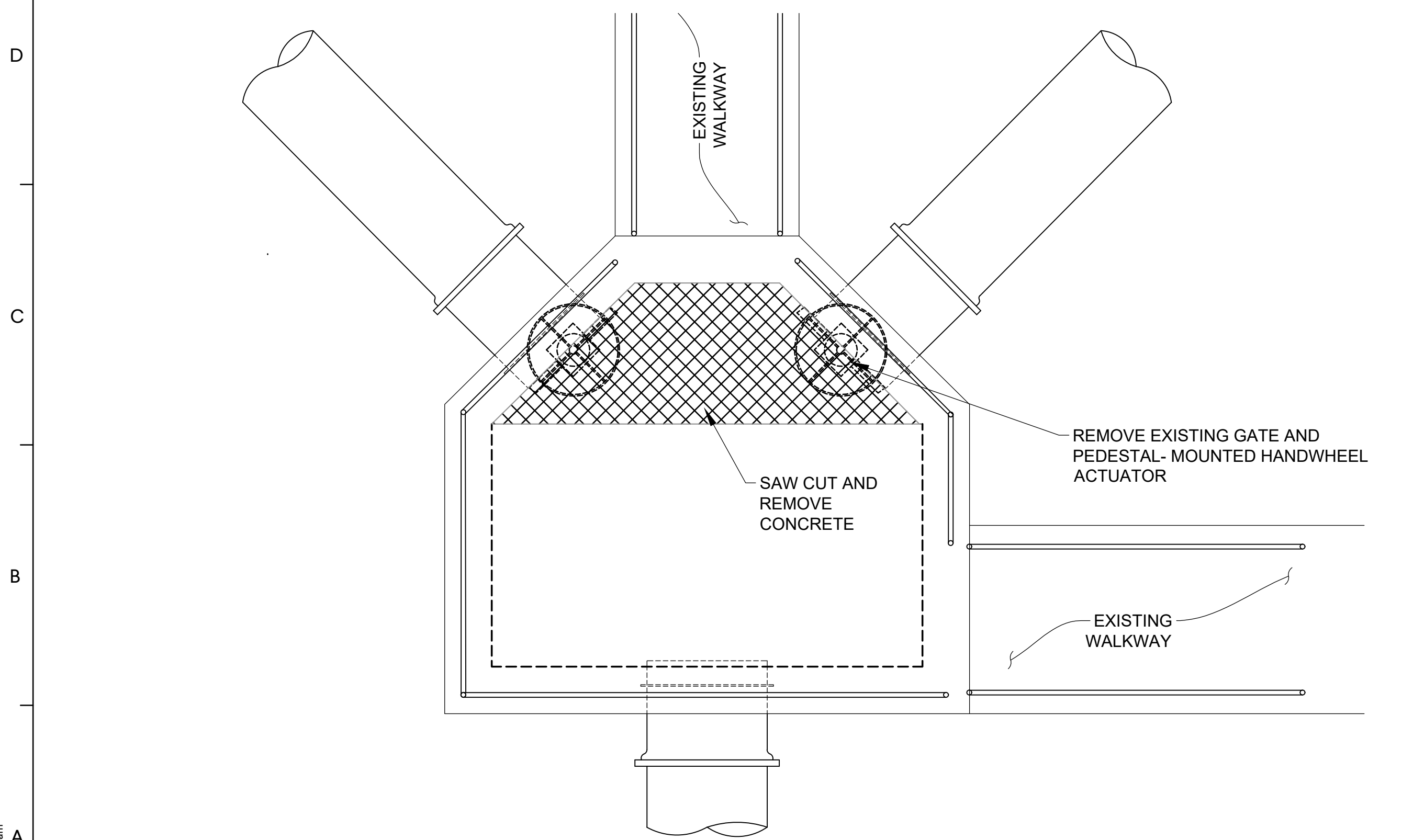
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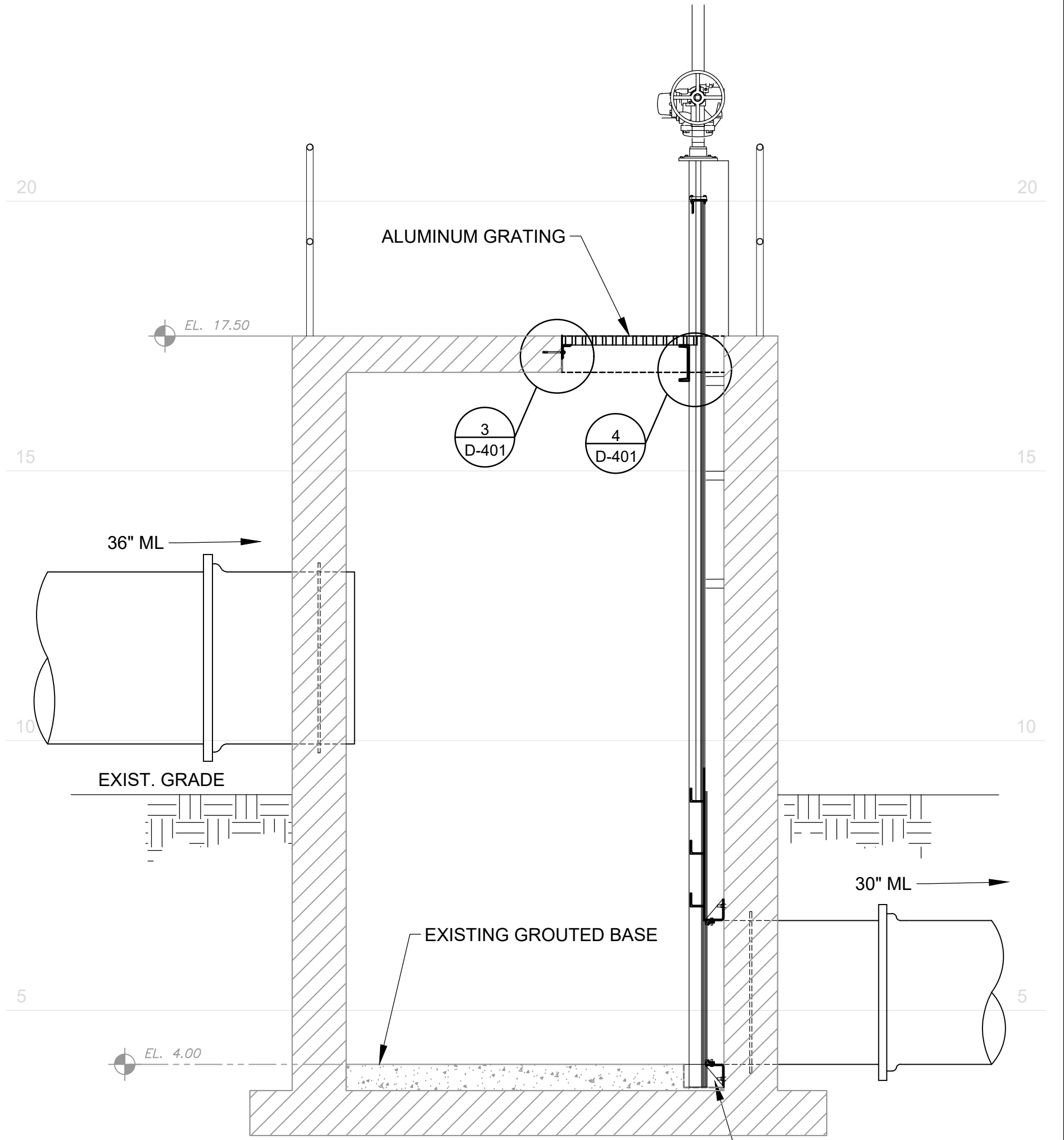
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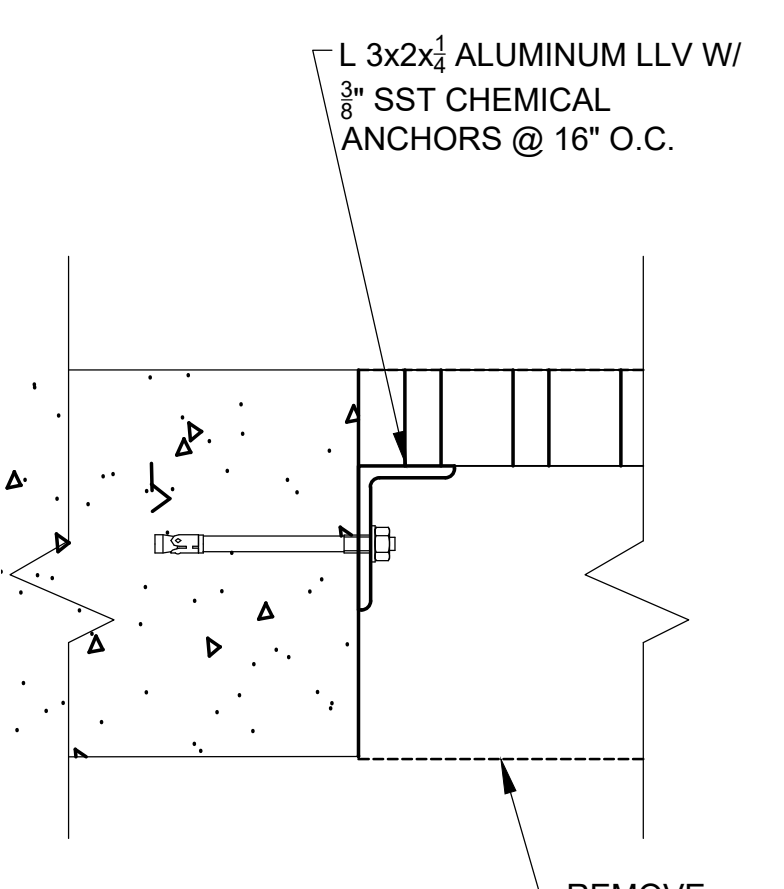
4A PLAN - SPLITTER BOX "B"
D-001 SCALE: 3/8" = 1'-0"



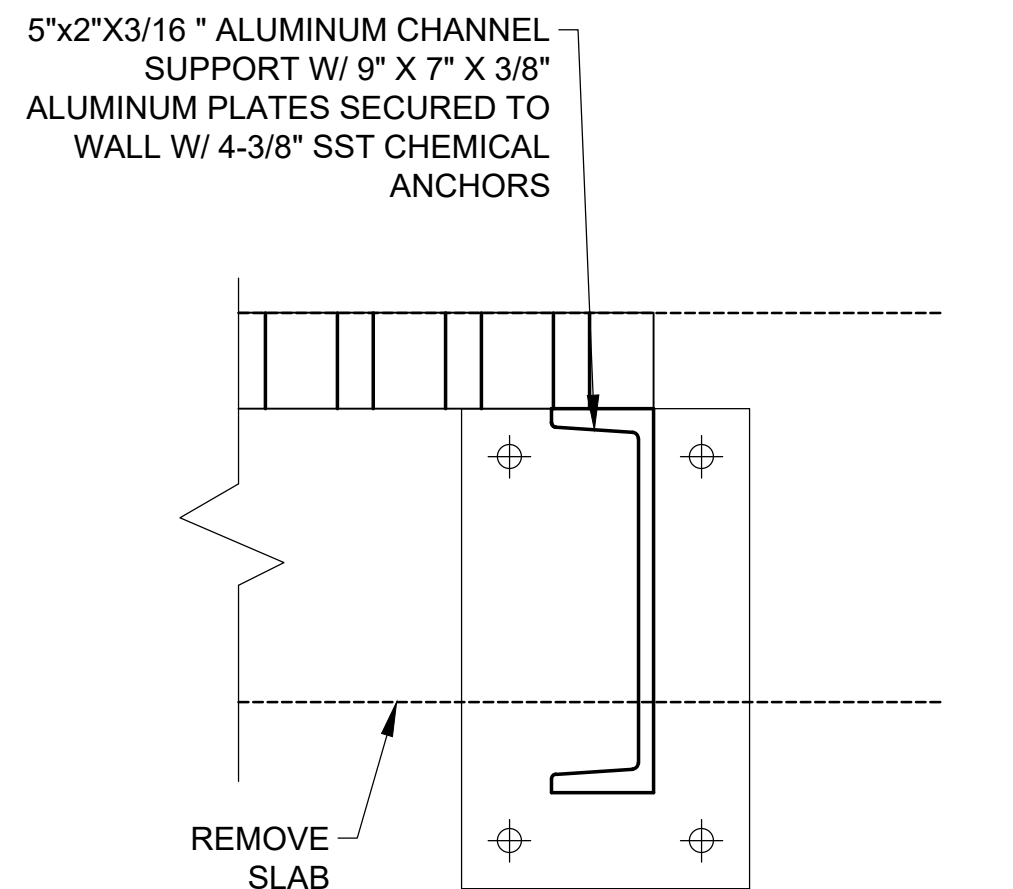
4A DEMOLITION PLAN - SPLITTER BOX "B"
D-001 SCALE: 3/8" = 1'-0"



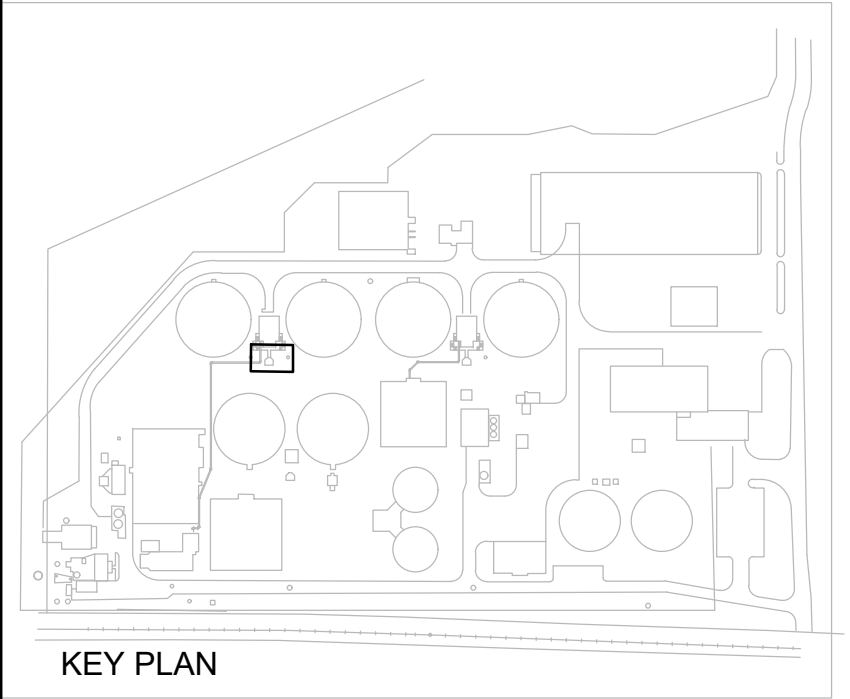
A SECTION
D-401 SCALE: 1/2" = 1'-0"



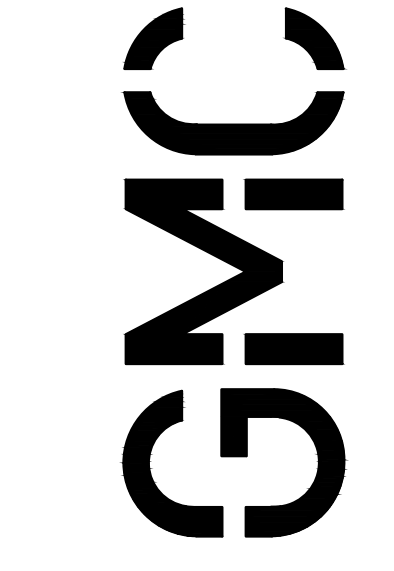
3 DETAIL
D-401 SCALE: 3" = 1'-0"



4 DETAIL
D-401 SCALE: 3" = 1'-0"



KEY PLAN



2019 WPCF REHABILITATION	
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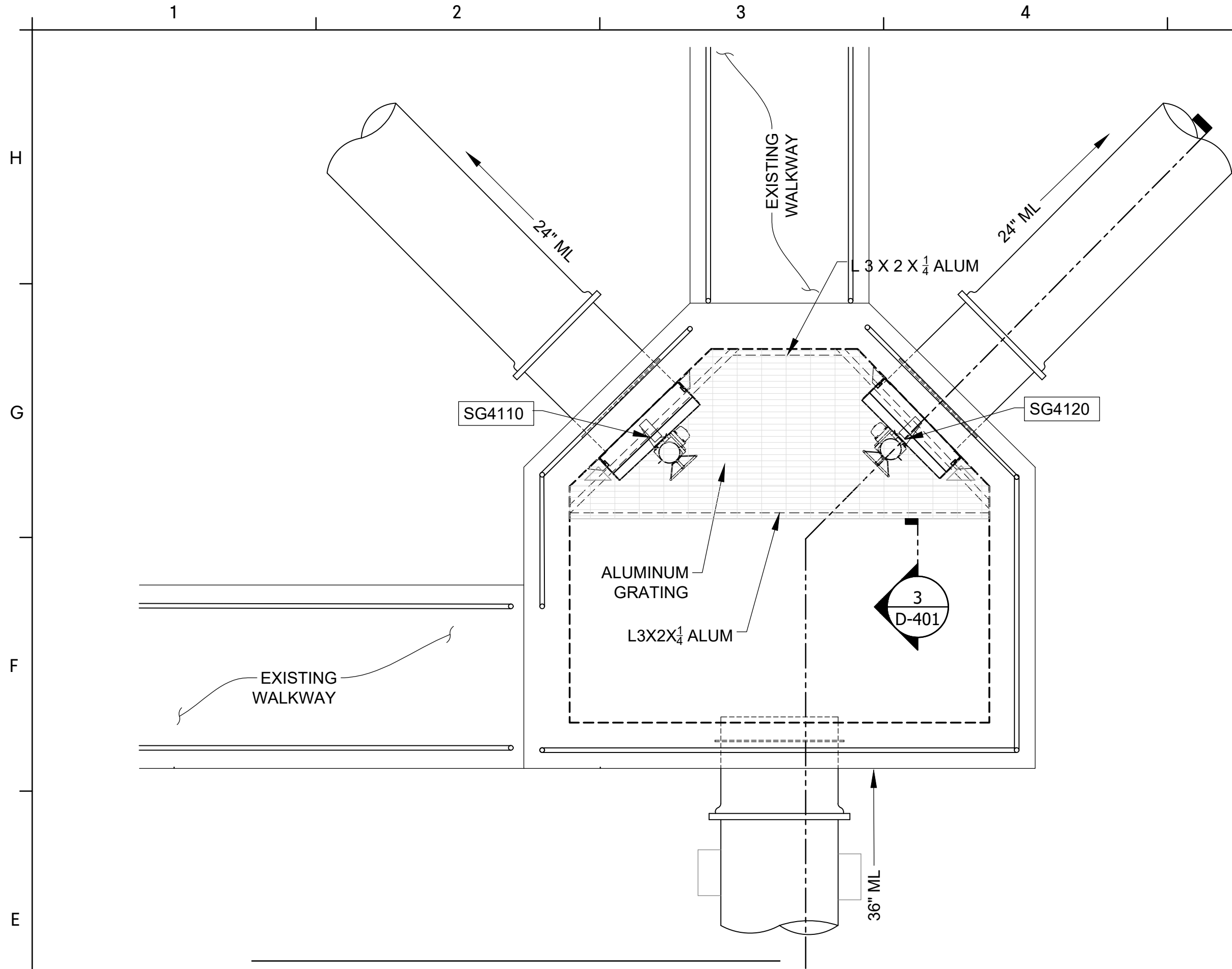
CLARIFIER PLAN
BOX B

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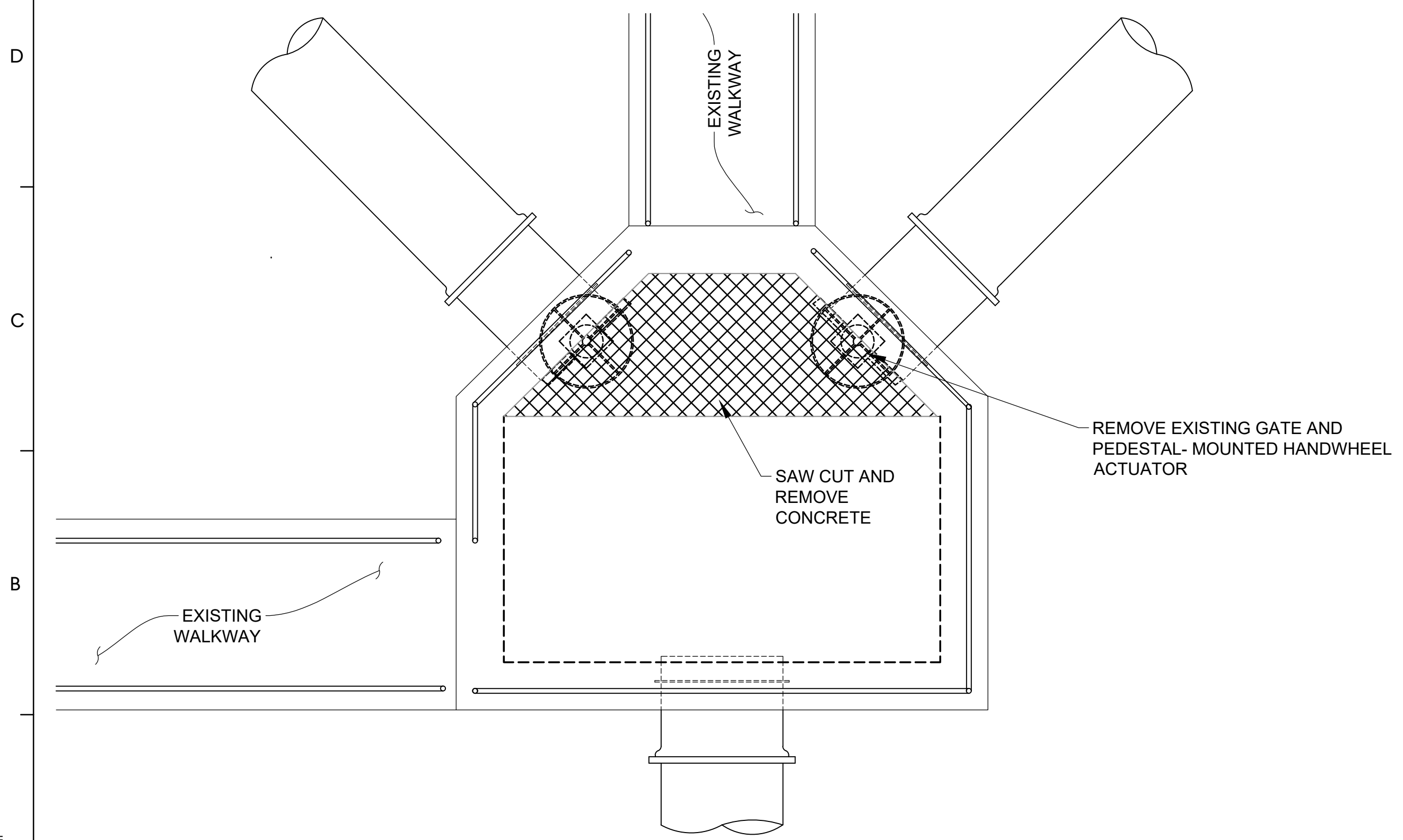


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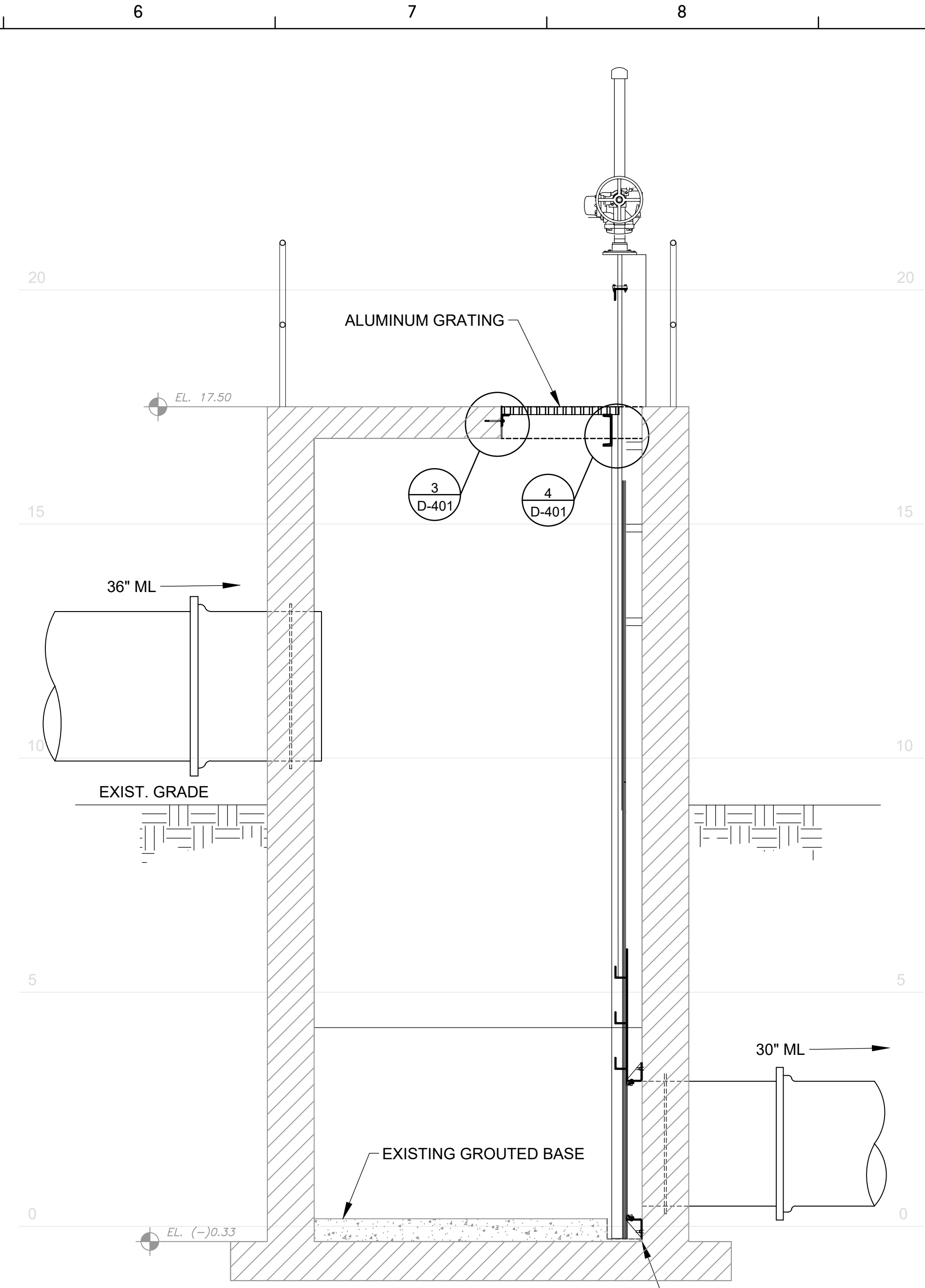
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4B PLAN - SPLITTER BOX "C"
D-001 SCALE: 3/8" = 1'-0"

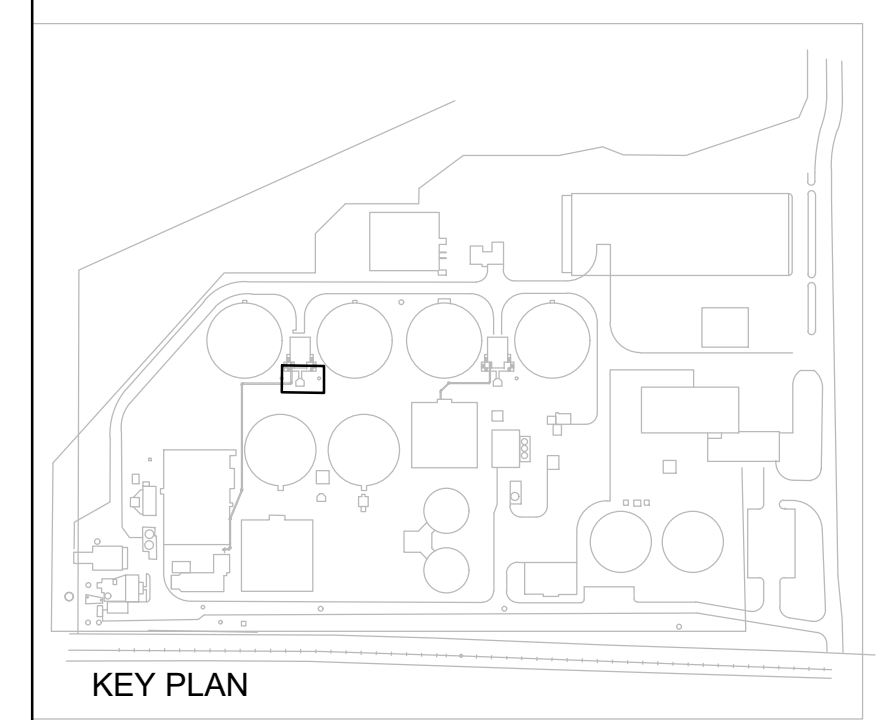


4B DEMOLITION PLAN - SPLITTER BOX "C"
D-001 SCALE: 3/8" = 1'-0"



A SECTION
D-402 SCALE: 1/2" = 1'-0"

REMOVE EXISTING GROUT
FILL TO LIMITS REQUIRED
TO INSTALL NEW GATE



KEY PLAN

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



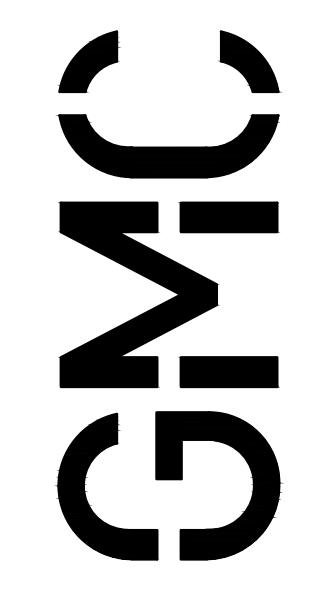
**CLARIFIER PLAN
BOX C**

D-402

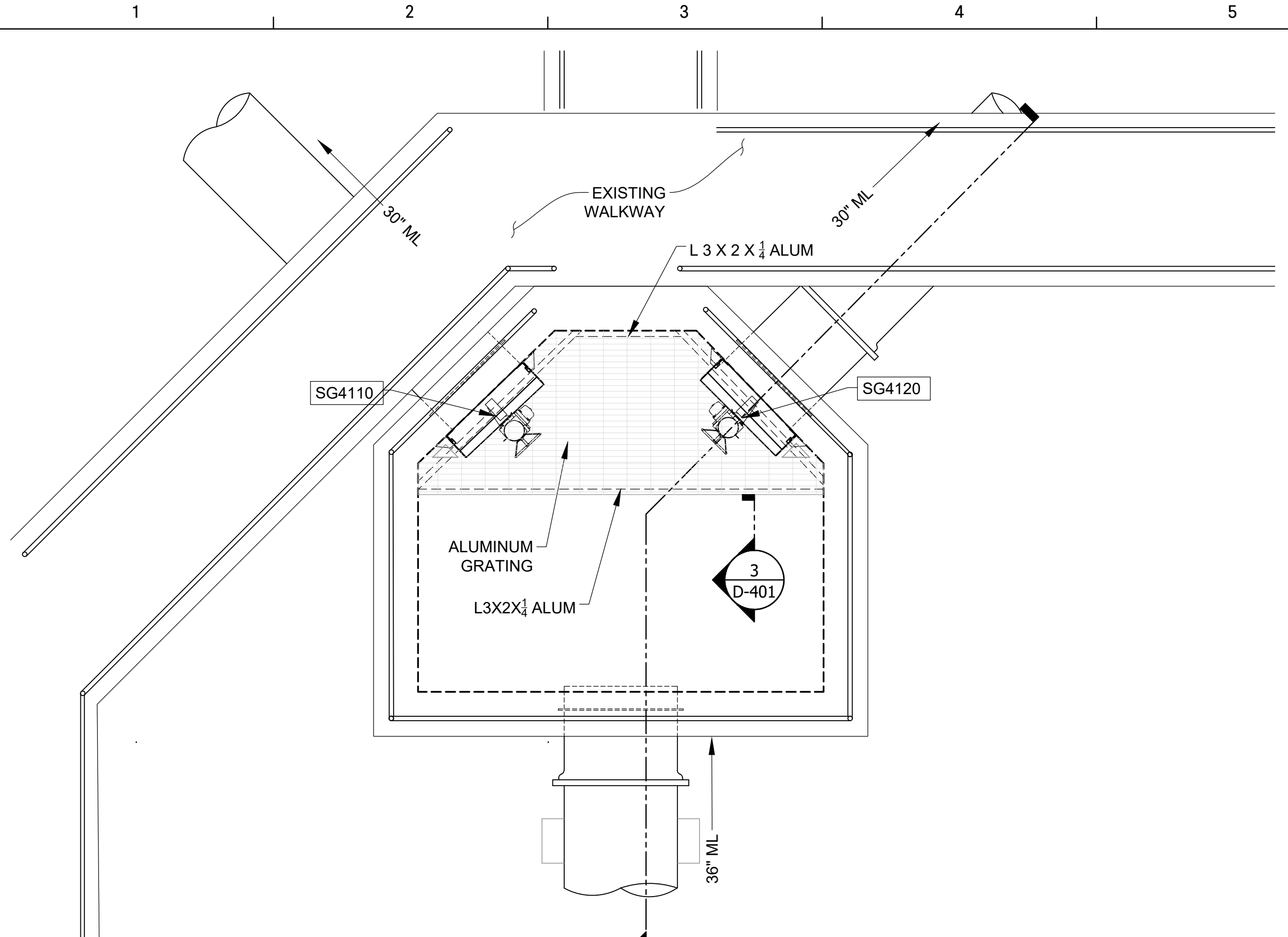
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DESIGNER:	GS
DRAWN BY:	GS/AJ

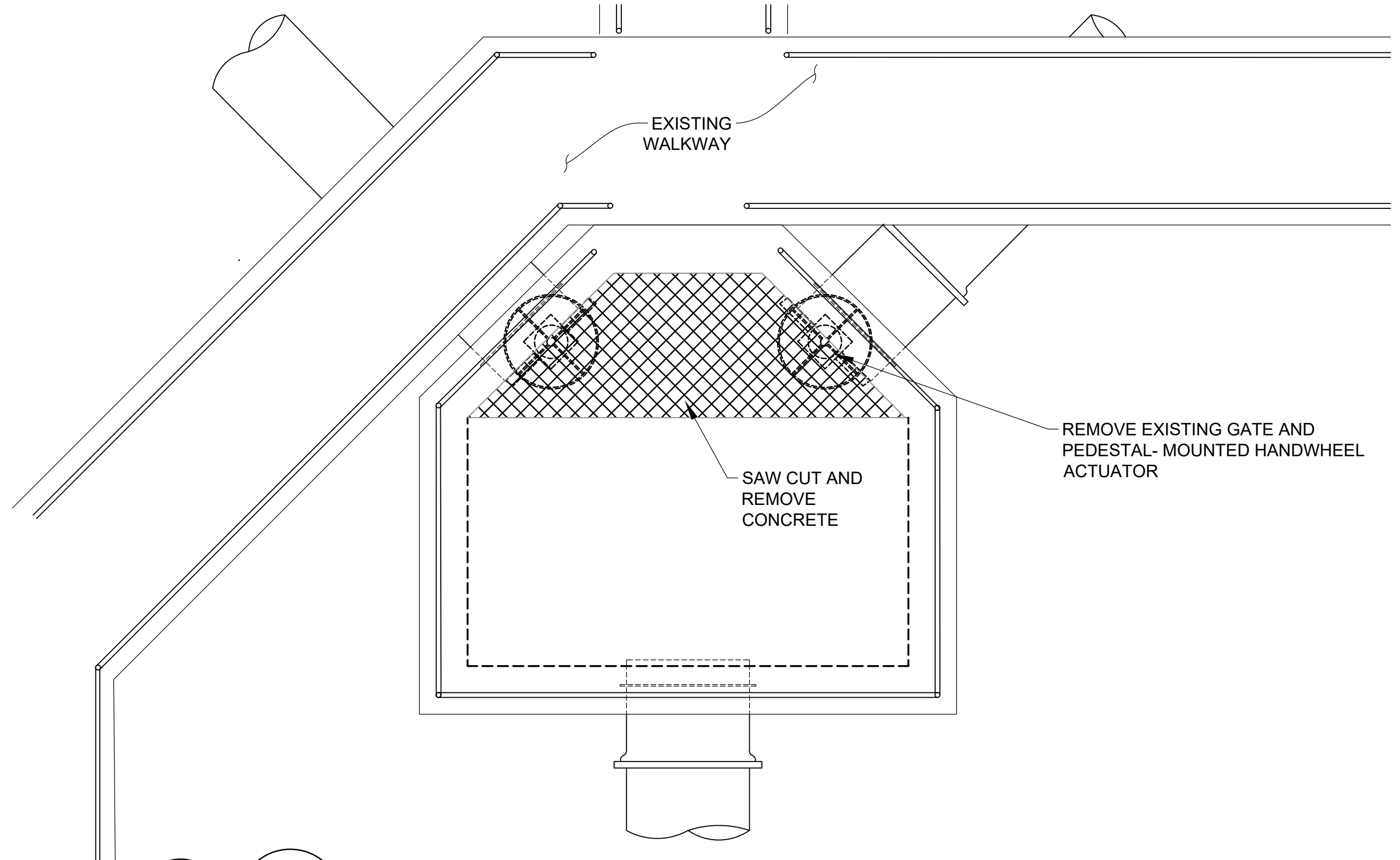
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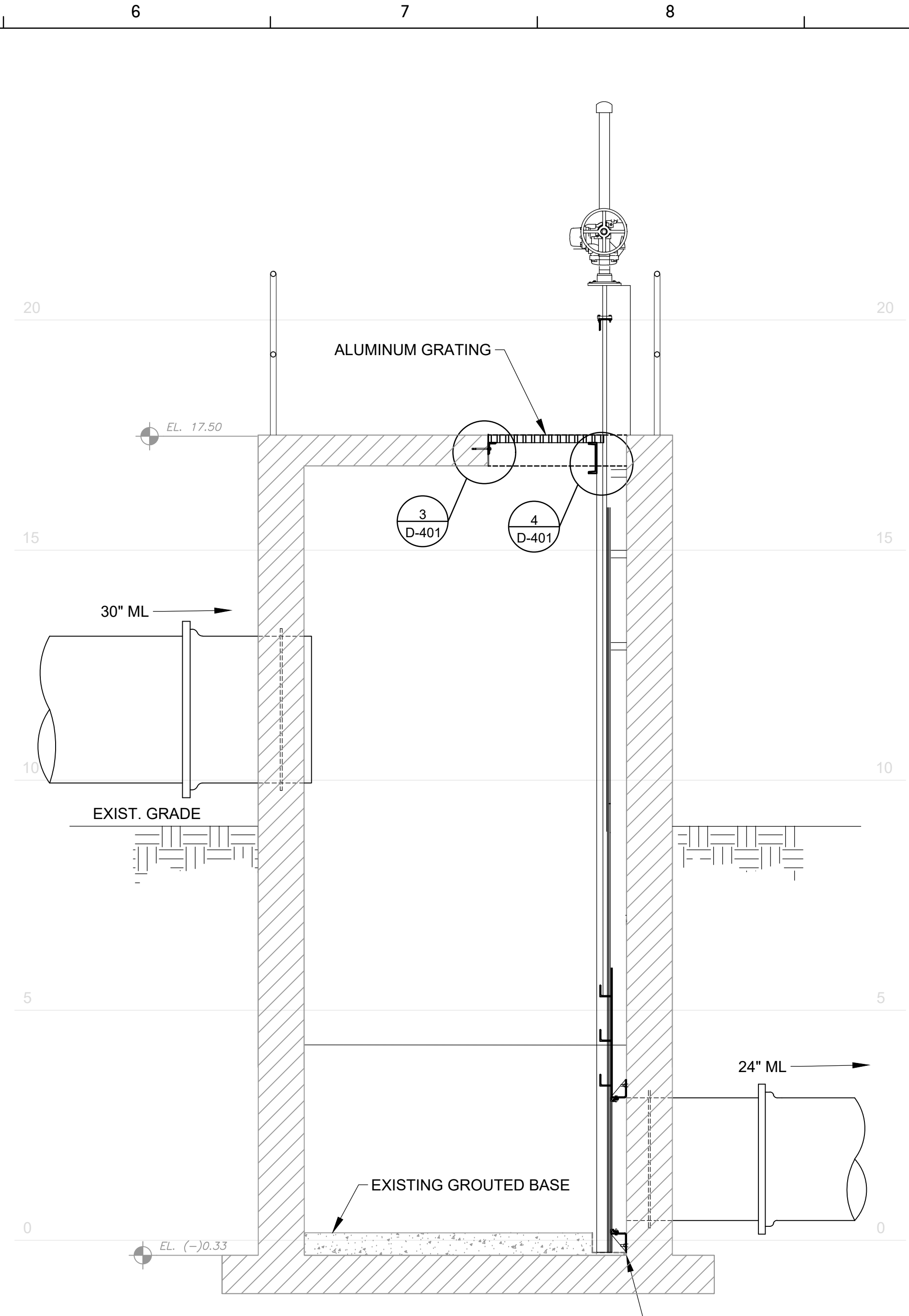
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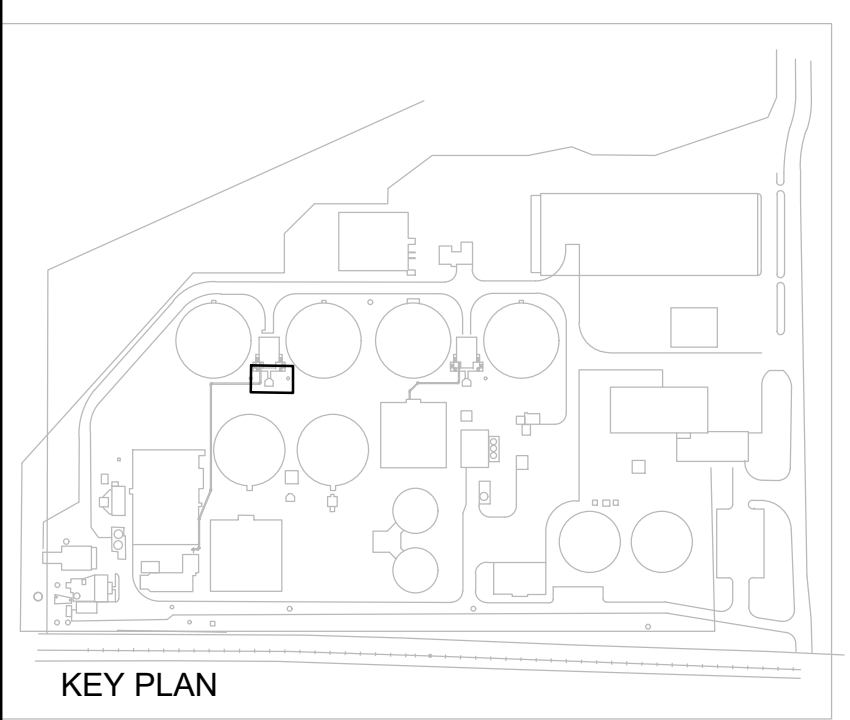
4C
D-001
PLAN - SPLITTER BOX "D"
SCALE: 3/8" = 1'-0"



4C
D-001
DEMOLITION PLAN - SPLITTER BOX "D"
SCALE: 3/8" = 1'-0"



A
D-403
SECTION
SCALE: 1/2" = 1'0"



CLARIFIER PLAN
BOX D

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

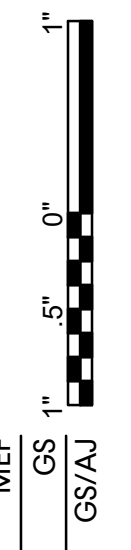
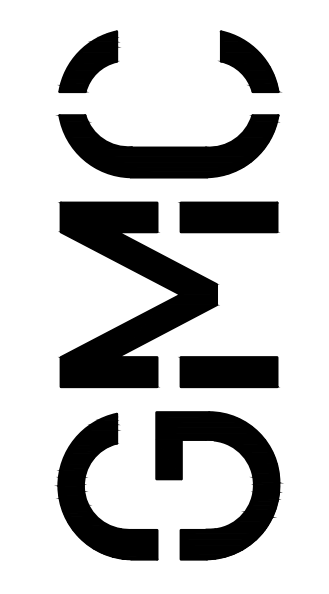
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ENGINEER:	MEF
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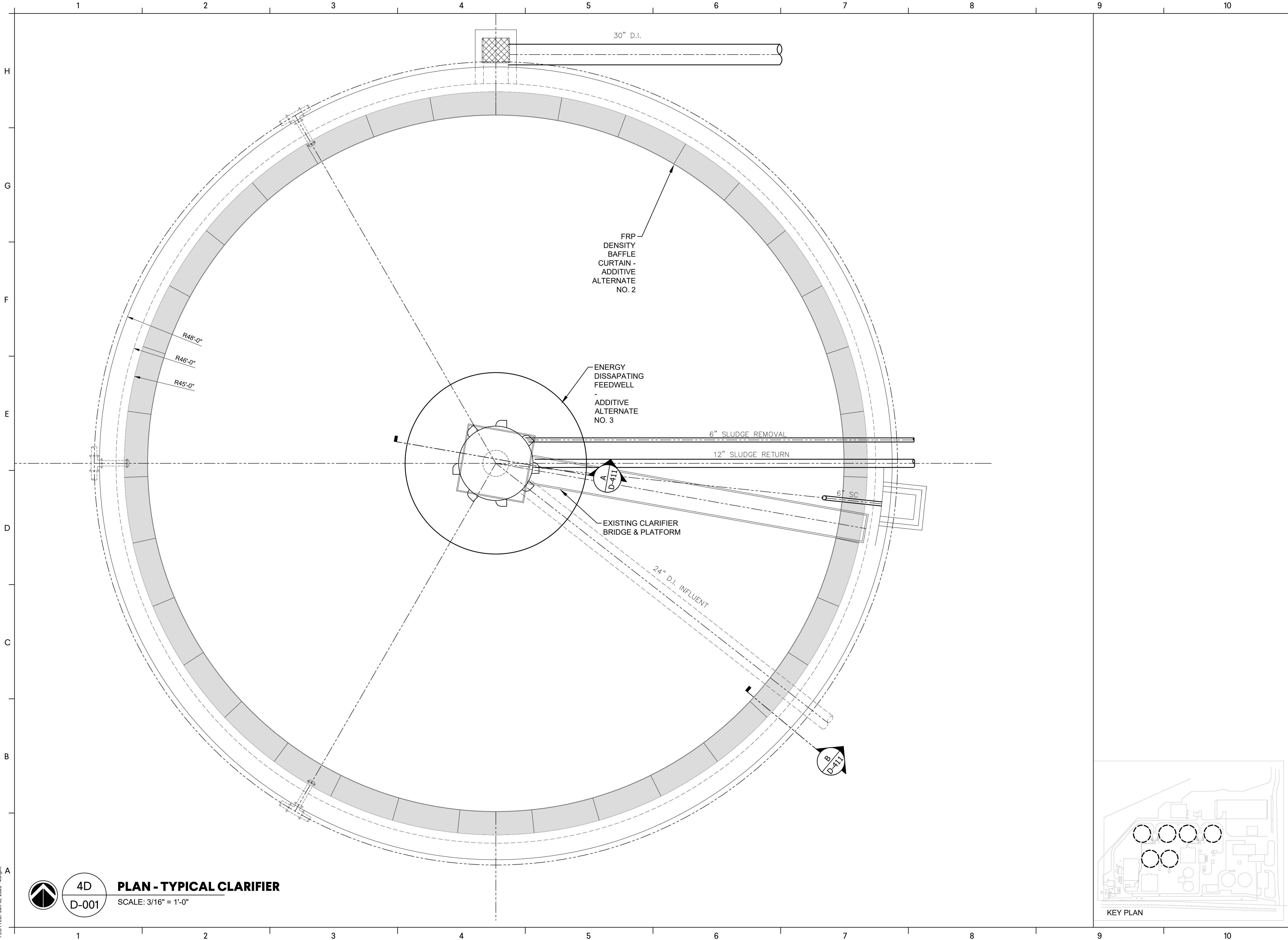


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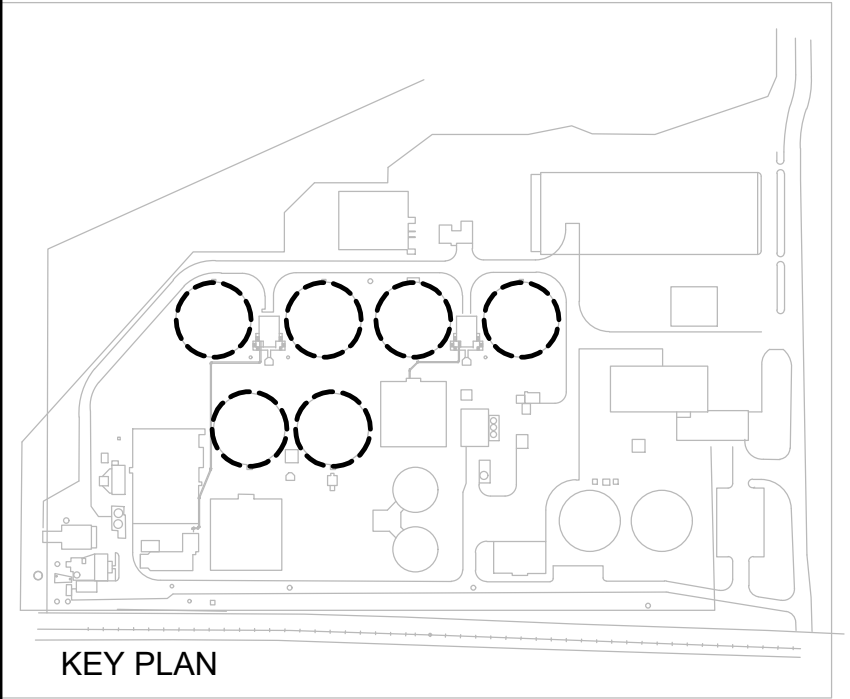
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PLOTTED: Jun 18, 2020 - 4:51 pm



4D
D-001 **PLAN - TYPICAL CLARIFIER**
SCALE: 3/16" = 1'-0"



KEY PLAN

CLARIFIER PLAN

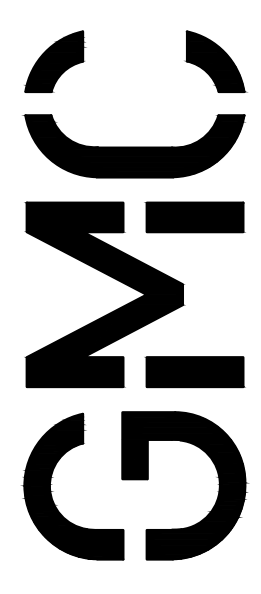
2019 WPCF REHABILITATION
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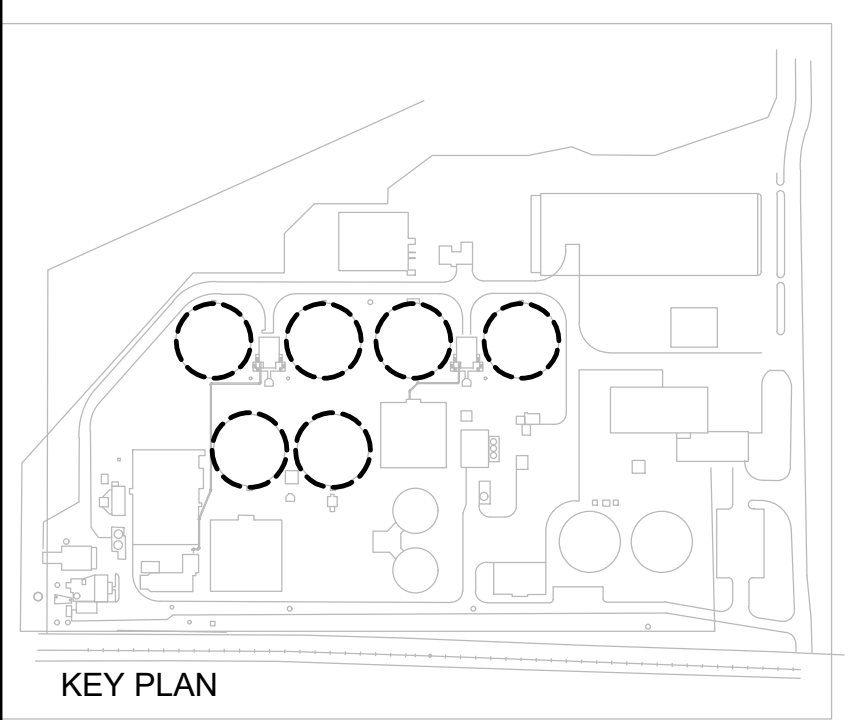
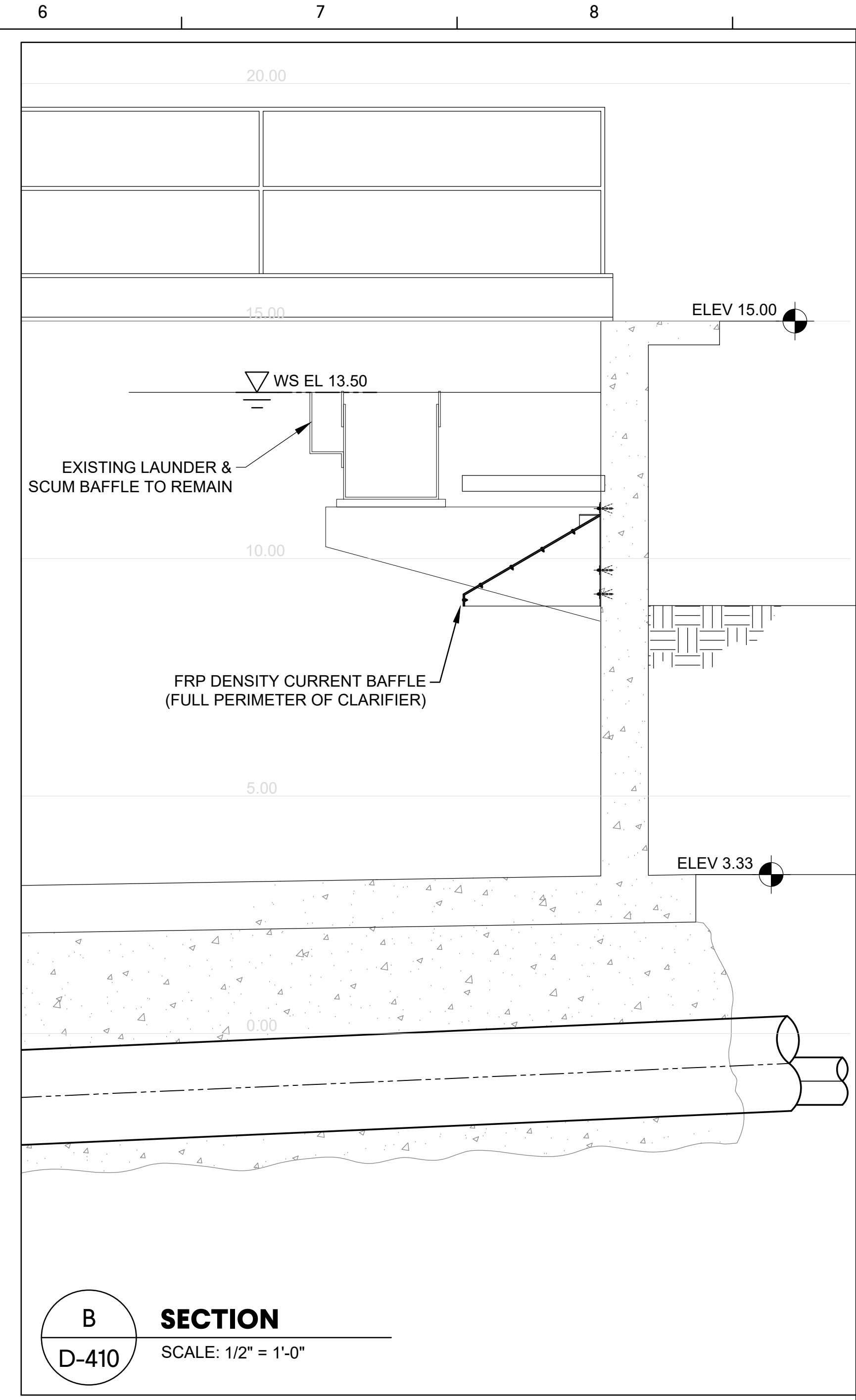
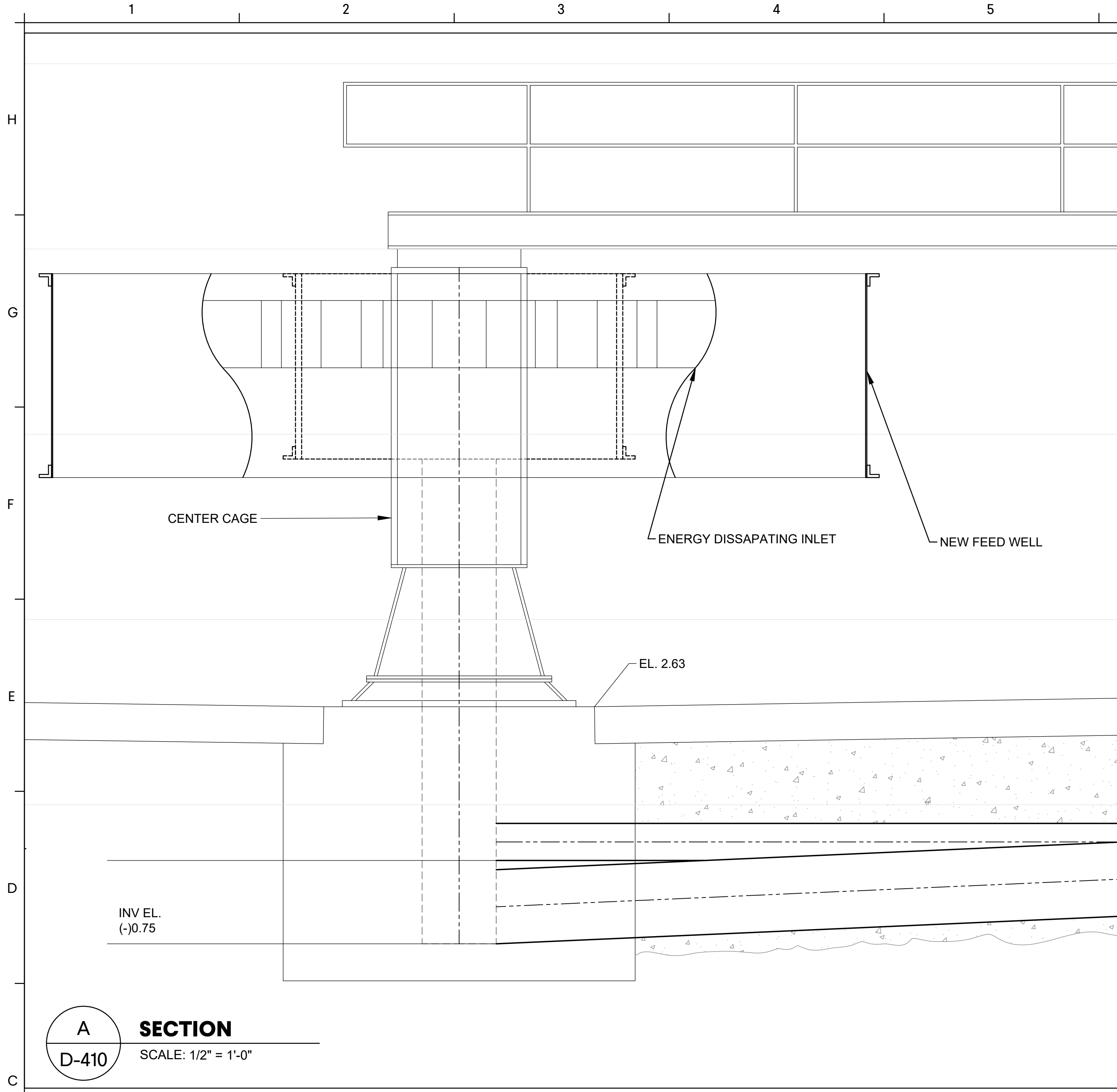
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D-410

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CLARIFIER SECTIONS

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

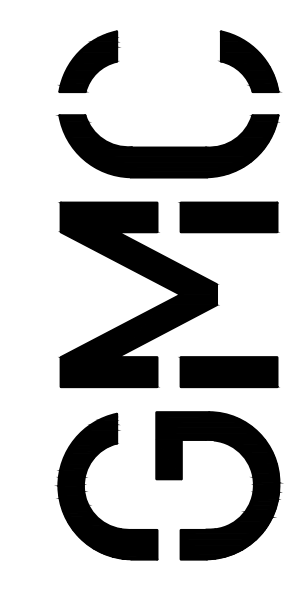


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DESIGNER:	GS
DRAWN BY:	GS/AJ

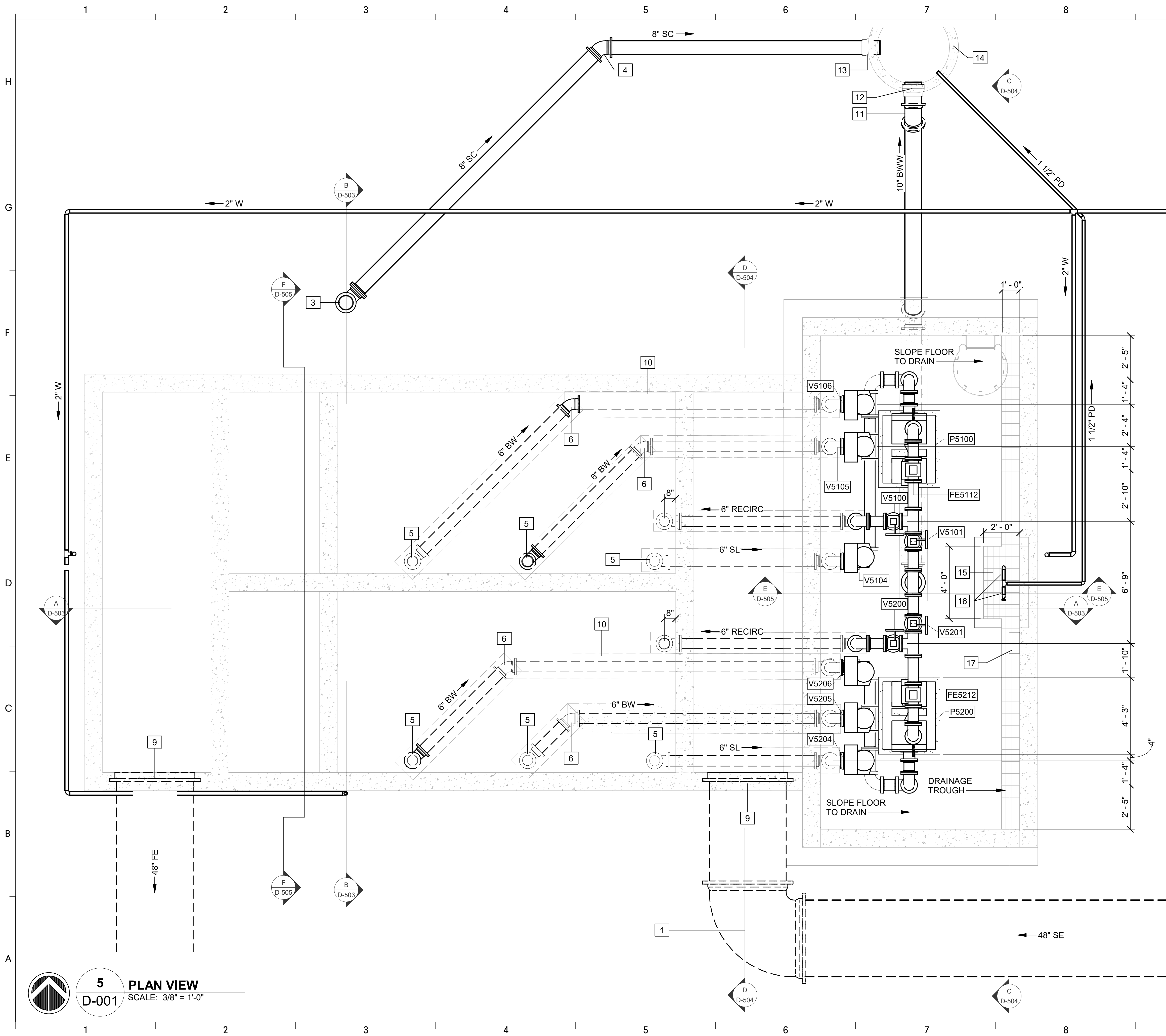
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D-411



6/5/2020 10:27:43 AM



- KEYED NOTES: #**
- 48" MJ 90° BEND
 - 48" MJ 22.5° BEND
 - 8" MJ 90° BEND
 - 8" MJ 45° BEND
 - 6" MJ 90° BEND
 - 6" MJ 45° BEND
 - 6" MJ WYE
 - 4" MJ 90° BEND
 - 48" TYPE 'G' PIPE PENETRATION
 - CONCRETE ENCASE ALL PIPING UNDER STRUCTURE
 - 10" MJ 45° BEND
 - 10" TYPE 'D' PIPE PENETRATION - I.E. 7.20
 - 8" TYPE 'D' PIPE PENETRATION - I.E. 7.40
 - 4" MANHOLE - SEE DEG C-124 FOR CONTINUATION
 - 2'X4'X2' SUMP
 - DUPLEX ZOELLER MODEL 98 OR EQUAL, 20 GPM @ 20' TDH SUMP PUMPS
 - DUPLEX ALTERNATOR SUMP PUMP CONTROL PANEL W/ FLOAT SWITCH AND REMOTE INDICATOR OF HIGH LEVEL ALARM. CONTROL PANEL PROVIDED BY SUMP PUMP SUPPLIER.

FILTER - LOWER PLAN

D-501

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION

BGWSC Project No. 906
 GMC Project # CSAV190007

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ISSUE DATE
 30% SUBMITTAL 10.01.2019
 70% SUBMITTAL 12.16.2019
 100% SUBMITTAL 06.15.2020

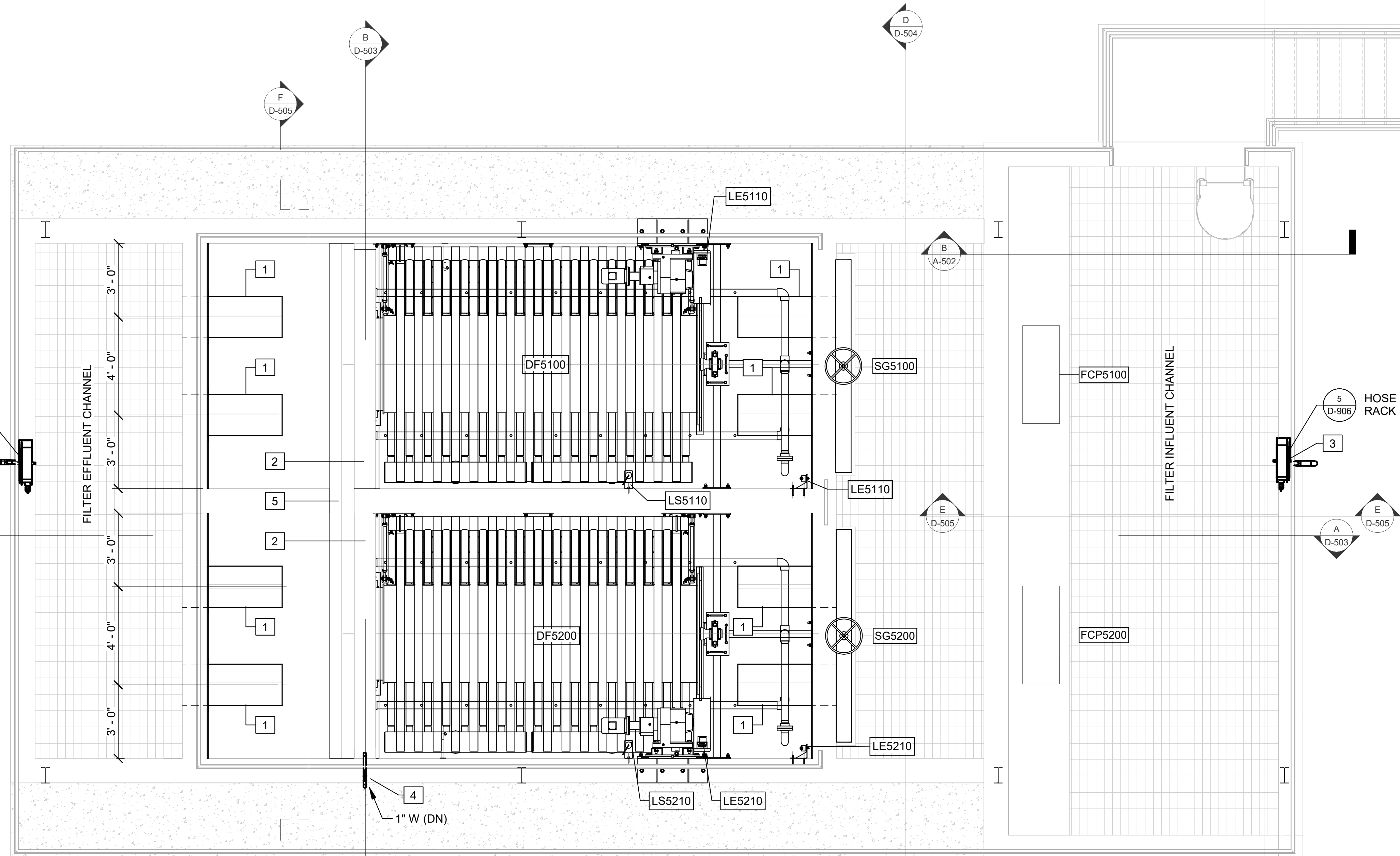
PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: FN/HKD



5 PLAN VIEW
 D-001 SCALE: 3/8" = 1'-0"

6/5/2020 10:27:44 AM

5
D-001
PLAN VIEW
 SCALE: 3/8" = 1'-0"



KEYED NOTES: #

1. FINGER WEIRS FURNISHED BY FILTER EQUIPMENT SUPPLIER
2. SCUM TROUGH FURNISHED BY FILTER EQUIPMENT SUPPLIER
3. 1 1/2" HOSE BIB WITH 50' HOSE & ADJUSTABLE NOZZLE
4. SLUICE WATER FOR SCUM TROUGH W/ MANUAL BALL VALVE
5. OPENING IN FILTER WALL FOR SCUM TROUGH. VERIFY SIZE AND POSITION W/ FILTER EQUIPMENT SUPPLIER.

FILTER - UPPER PLAN

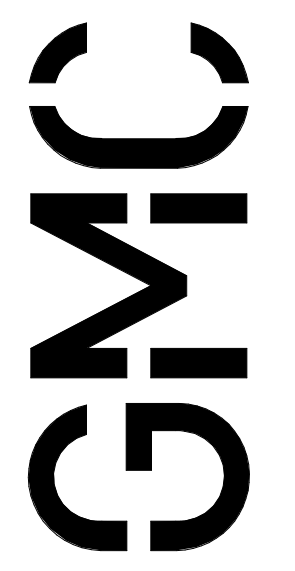
2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007



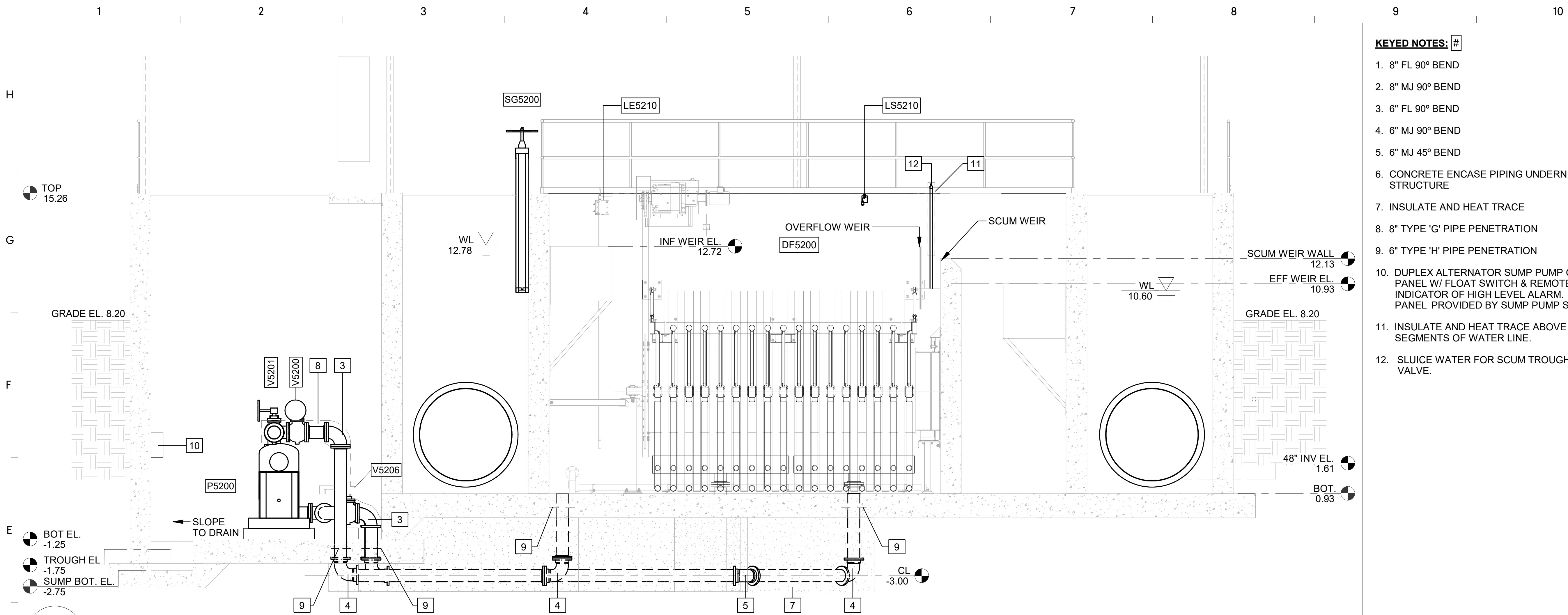
D-502

ISSUE	DATE	DESCRIPTION
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70% SUBMITTAL	12.16.2019	
100% SUBMITTAL	06.15.2020	

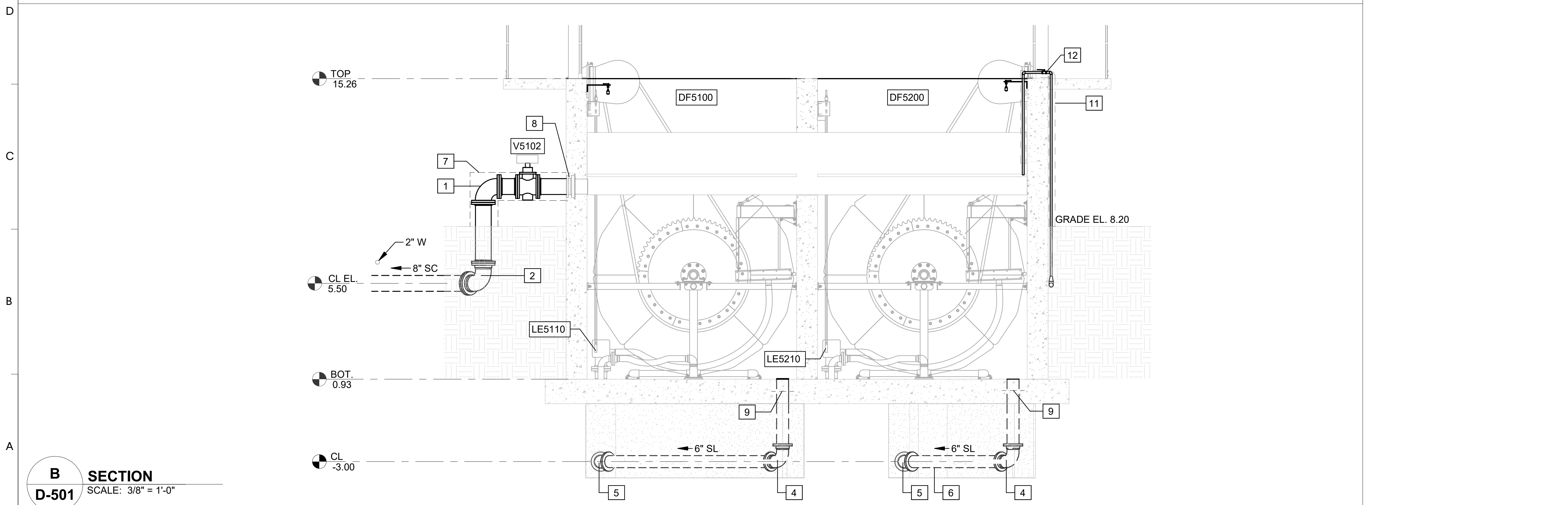
PROJECT MANAGER:	JCV	T 912.655.6790
ENGINEER:	MIF	GMCNETWORK.COM
DESIGNER:	GS	
DRAWN BY:	FN/HKD	



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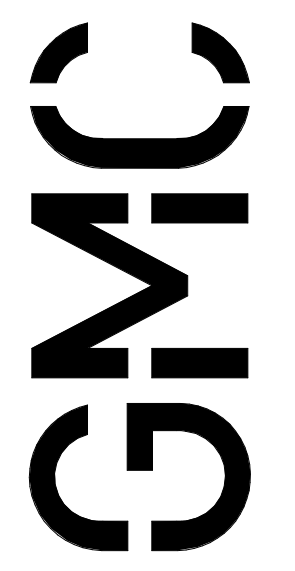


A SECTION
D-501 SCALE: 3/8" = 1'-0"




B SECTION
D-501 SCALE: 3/8" = 1'-0"

- KEYED NOTES: #**
1. 8" FL 90° BEND
 2. 8" MJ 90° BEND
 3. 6" FL 90° BEND
 4. 6" MJ 90° BEND
 5. 6" MJ 45° BEND
 6. CONCRETE ENCASE PIPING UNDERNEATH STRUCTURE
 7. INSULATE AND HEAT TRACE
 8. 8" TYPE 'G' PIPE PENETRATION
 9. 6" TYPE 'H' PIPE PENETRATION
 10. DUPLEX ALTERNATOR SUMP PUMP CONTROL PANEL W/ FLOAT SWITCH & REMOTE INDICATOR OF HIGH LEVEL ALARM. CONTROL PANEL PROVIDED BY SUMP PUMP SUPPLIER.
 11. INSULATE AND HEAT TRACE ABOVE GROUND SEGMENTS OF WATER LINE.
 12. SLUCE WATER FOR SCUM TROUGH W/ 1" BALL VALVE.



2019 WPCF REHABILITATION	35 Abercorn Street,	Savannah, GA 31401
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BGWSC Project No. 906	GMC Project # CSAV190007	

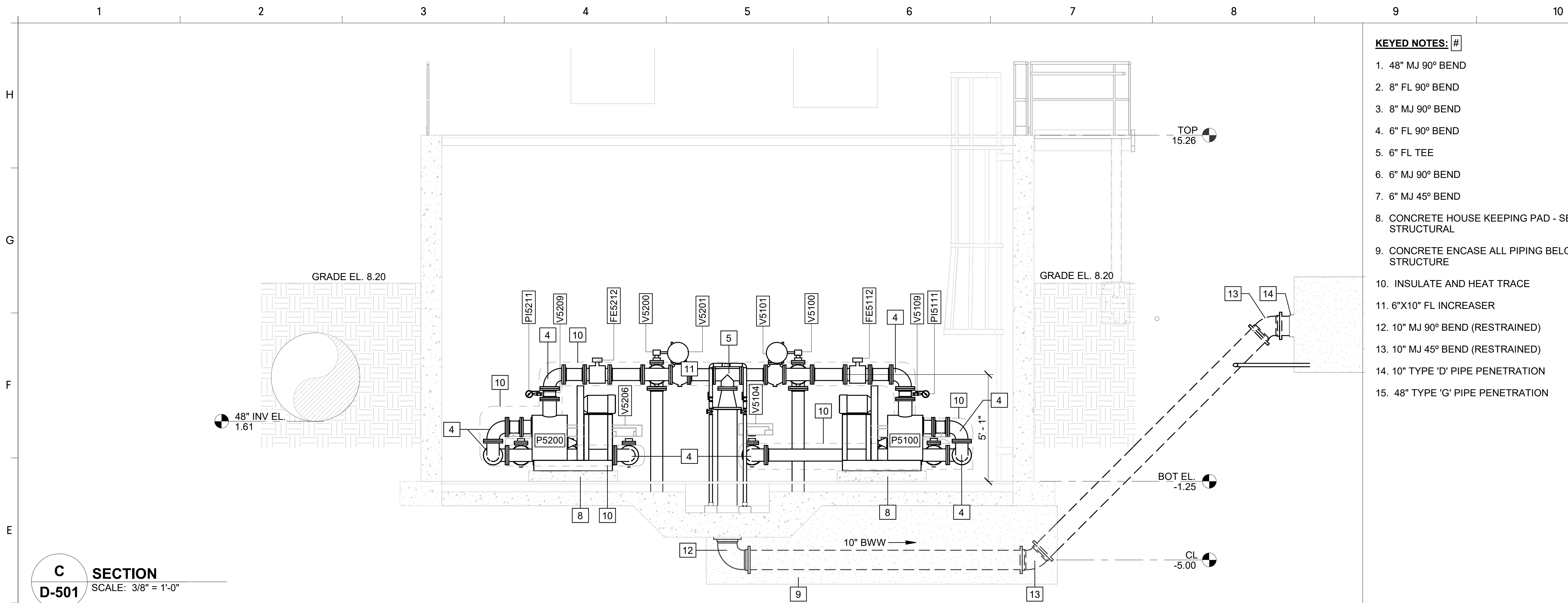
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30% SUBMITTAL	10.01.2019	JCV	MEF	FN/HKD
70% SUBMITTAL	12.16.2019		GS	
100% SUBMITTAL	06.15.2020			



FILTER - SECTIONS

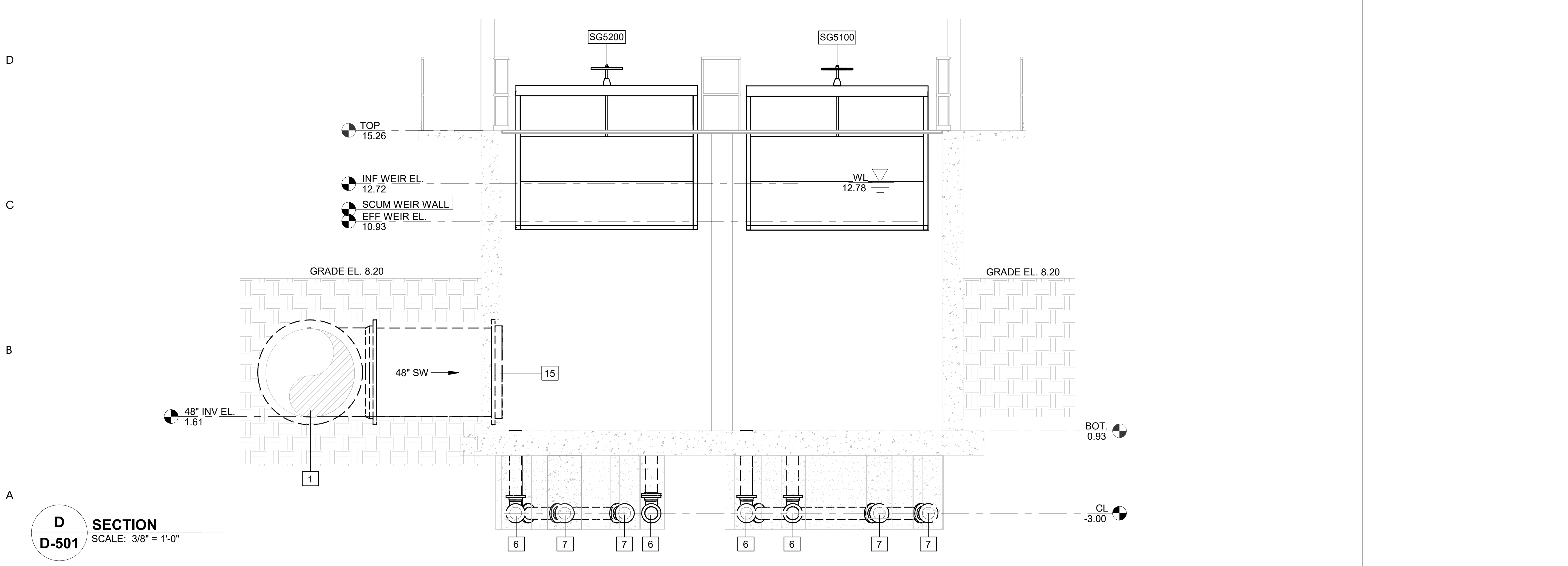
D-503

6/5/2020 10:27:45 AM



C SECTION
D-501 SCALE: 3/8" = 1'-0"

- KEYED NOTES: #**
1. 48" MJ 90° BEND
 2. 8" FL 90° BEND
 3. 8" MJ 90° BEND
 4. 6" FL 90° BEND
 5. 6" FL TEE
 6. 6" MJ 90° BEND
 7. 6" MJ 45° BEND
 8. CONCRETE HOUSE KEEPING PAD - SEE STRUCTURAL
 9. CONCRETE ENCASE ALL PIPING BELOW STRUCTURE
 10. INSULATE AND HEAT TRACE
 11. 6"X10" FL INCREASER
 12. 10" MJ 90° BEND (RESTRAINED)
 13. 10" MJ 45° BEND (RESTRAINED)
 14. 10" TYPE 'D' PIPE PENETRATION
 15. 48" TYPE 'G' PIPE PENETRATION



D SECTION
D-501 SCALE: 3/8" = 1'-0"

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY, JOINT WATER
 & SEWER COMMISSION
BGWSC Project No. 906
GMC Project # CSAV190007

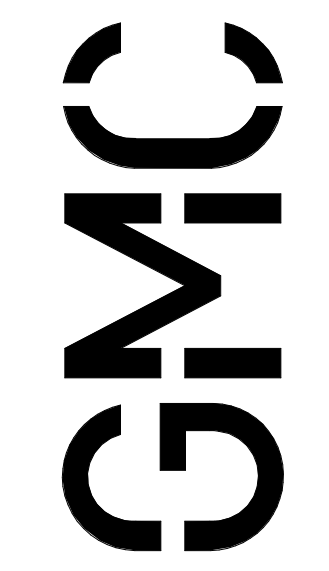


FILTER - SECTIONS

D-504

ISSUE DATE	30% SUBMITTAL	70% SUBMITTAL	100% SUBMITTAL	PROJECT MANAGER:	ENGINEER:	DESIGNER:	DRAWN BY:
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12.16.2019							
06.15.2020							

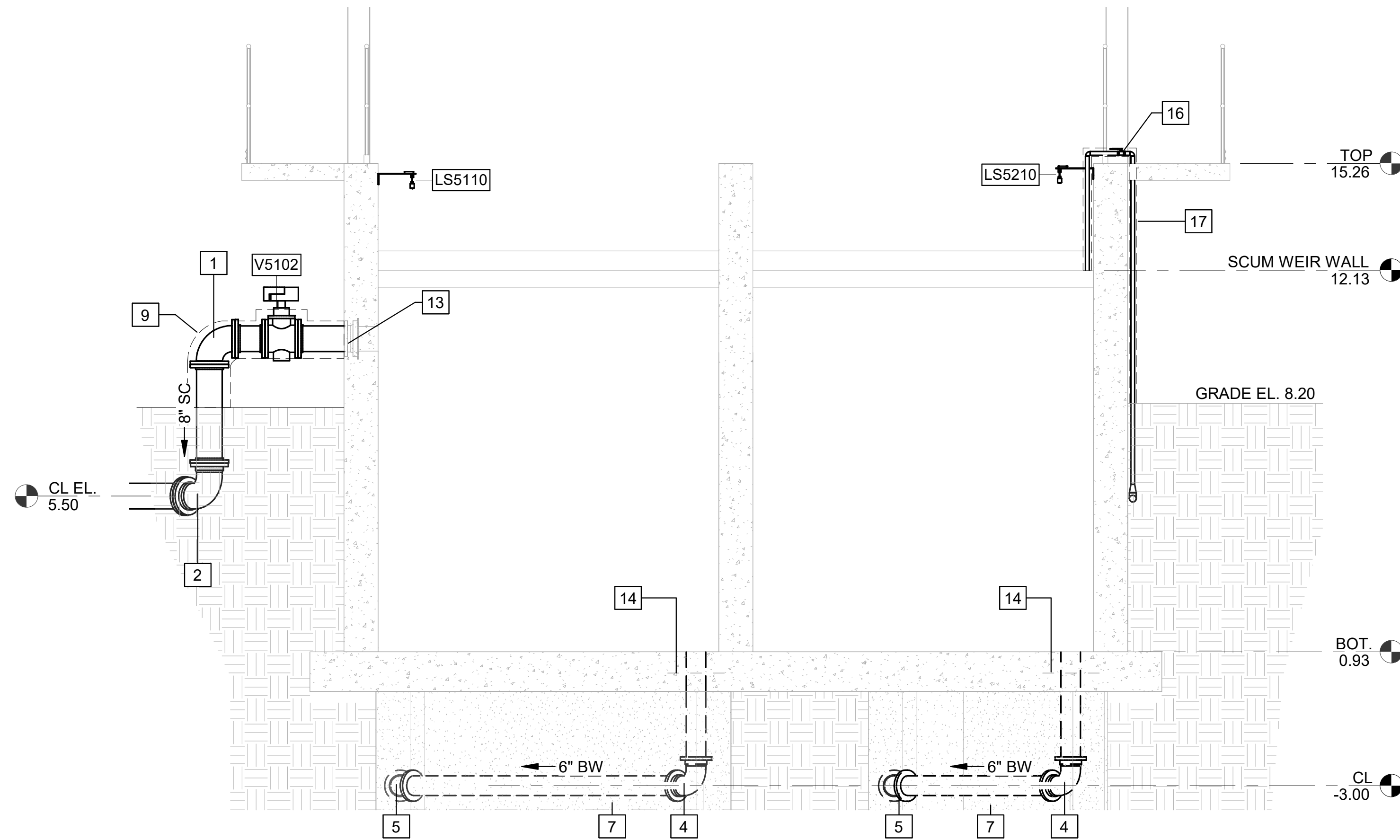
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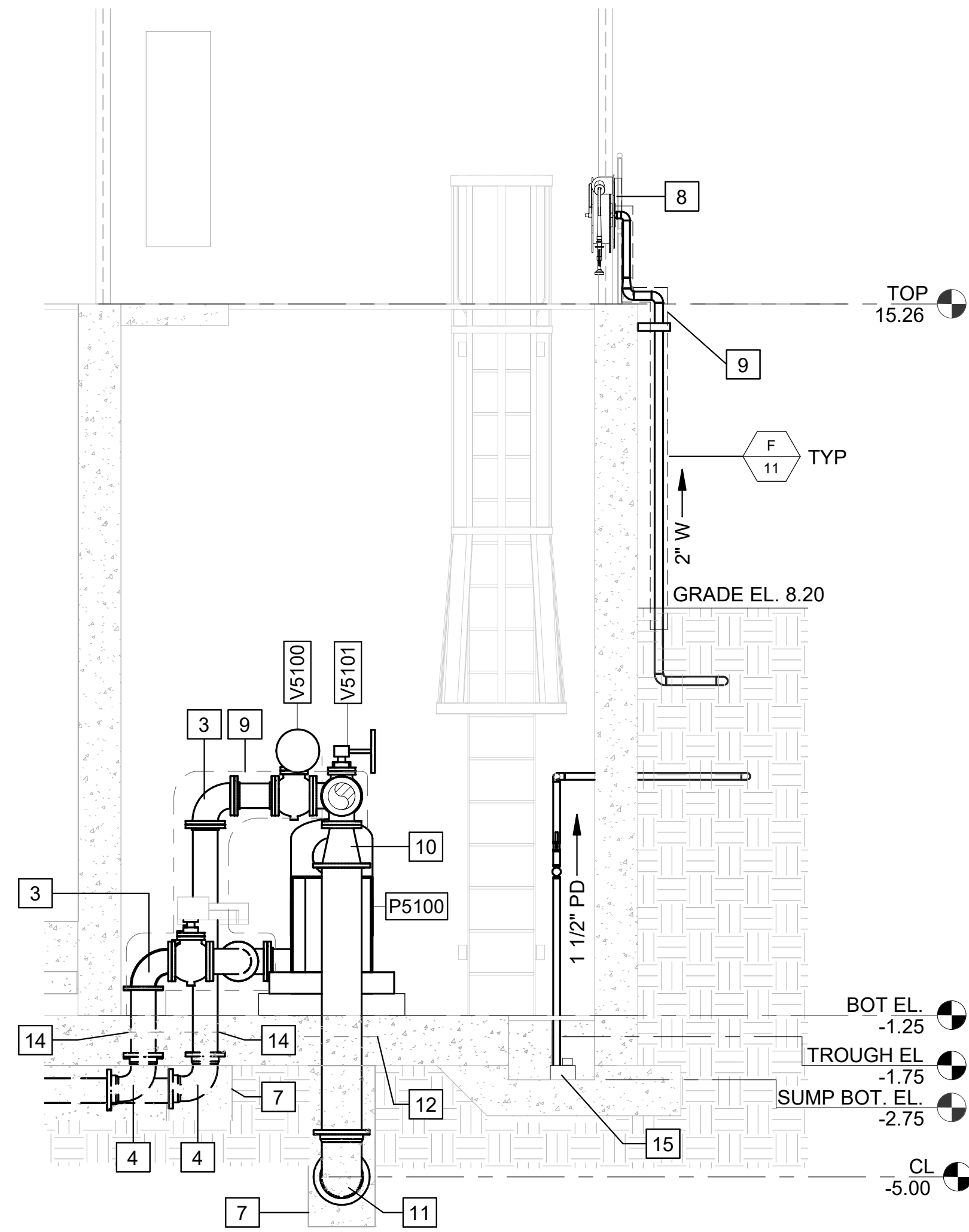
6/5/2020 10:27:47 AM

6/5/2020 10:27:48 AM

F SECTION
D-505 SCALE: 3/8" = 1'-0"



E SECTION
D-505 SCALE: 3/8" = 1'-0"



KEYED NOTES: #

1. 8" FL 90° BEND
2. 8" MJ 90° BEND
3. 6" FL 90° BEND
4. 6" MJ 90° BEND
5. 6" MJ 45° BEND
6. 4" MJ 90° BEND
7. CONCRETE ENCASE ALL PIPING UNDERNEATH STRUCTURE
8. 1 1/2" HOSE BIB WITH 50' HOSE & ADJUSTABLE NOZZLE
9. INSULATE AND HEAT TRACE
10. 6"x10" FL INCREASER
11. 10" MJ 90° BEND
12. 10" TYPE 'H' PIPE PENETRATION
13. 8" TYPE 'G' PIPE PENETRATION
14. 6" TYPE 'H' PIPE PENETRATION
15. SUMP PUMP W/ 1 1/2" CHECK VALVE & 1 1/2" BALL VALVE.
16. SLUICE WATER FOR SCUM TROUGH W/ 1" BALL VALVE.
17. INSULATE AND HEAT TRACE ABOVE GROUND SEGMENTS OF WATER LINE.

FILTER - SECTIONS

D-505

2019 WPCF REHABILITATION

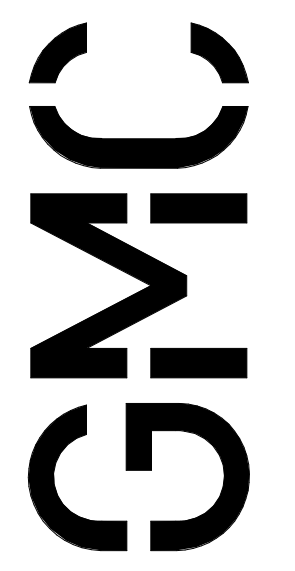
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY, JOINT WATER & SEWER COMMISSION

BGWSC Project No. 906
GMC Project # CSAV190007

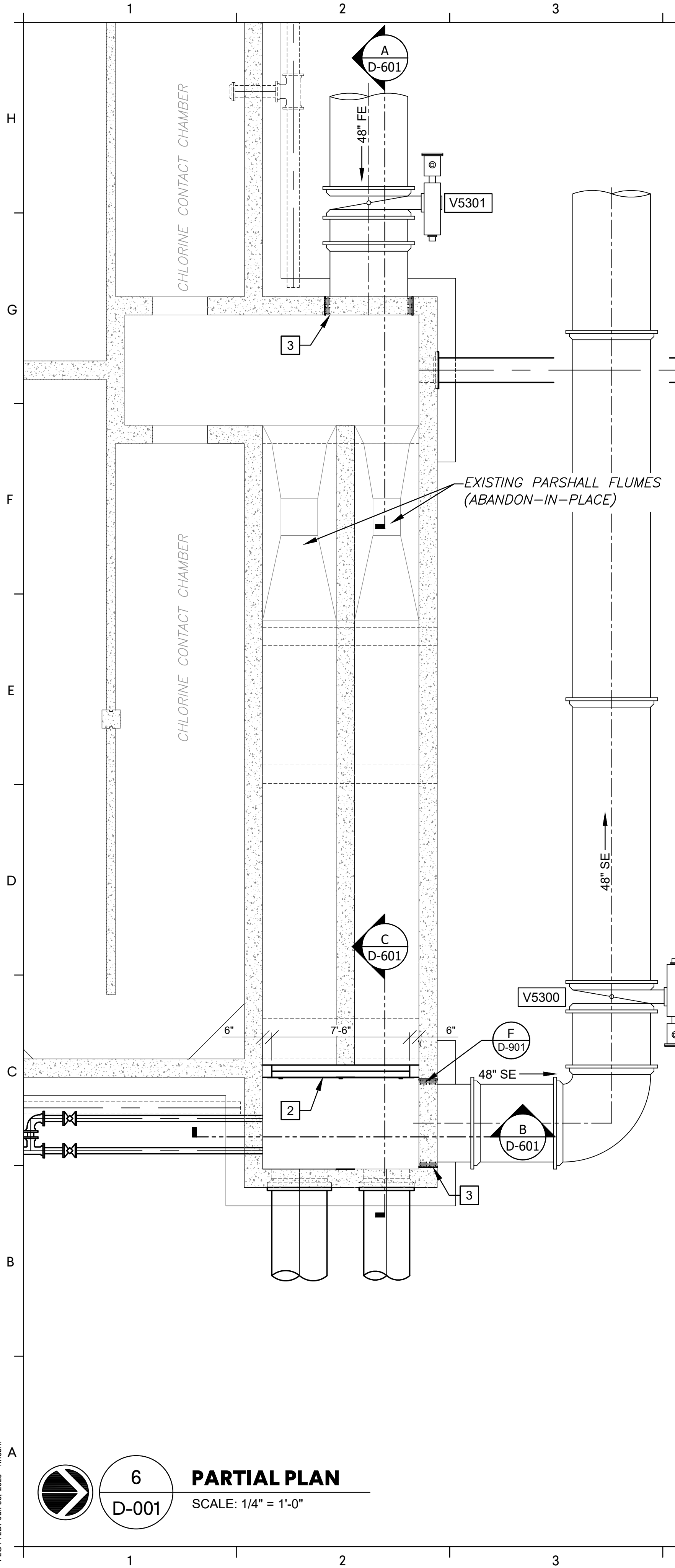


ISSUE DATE

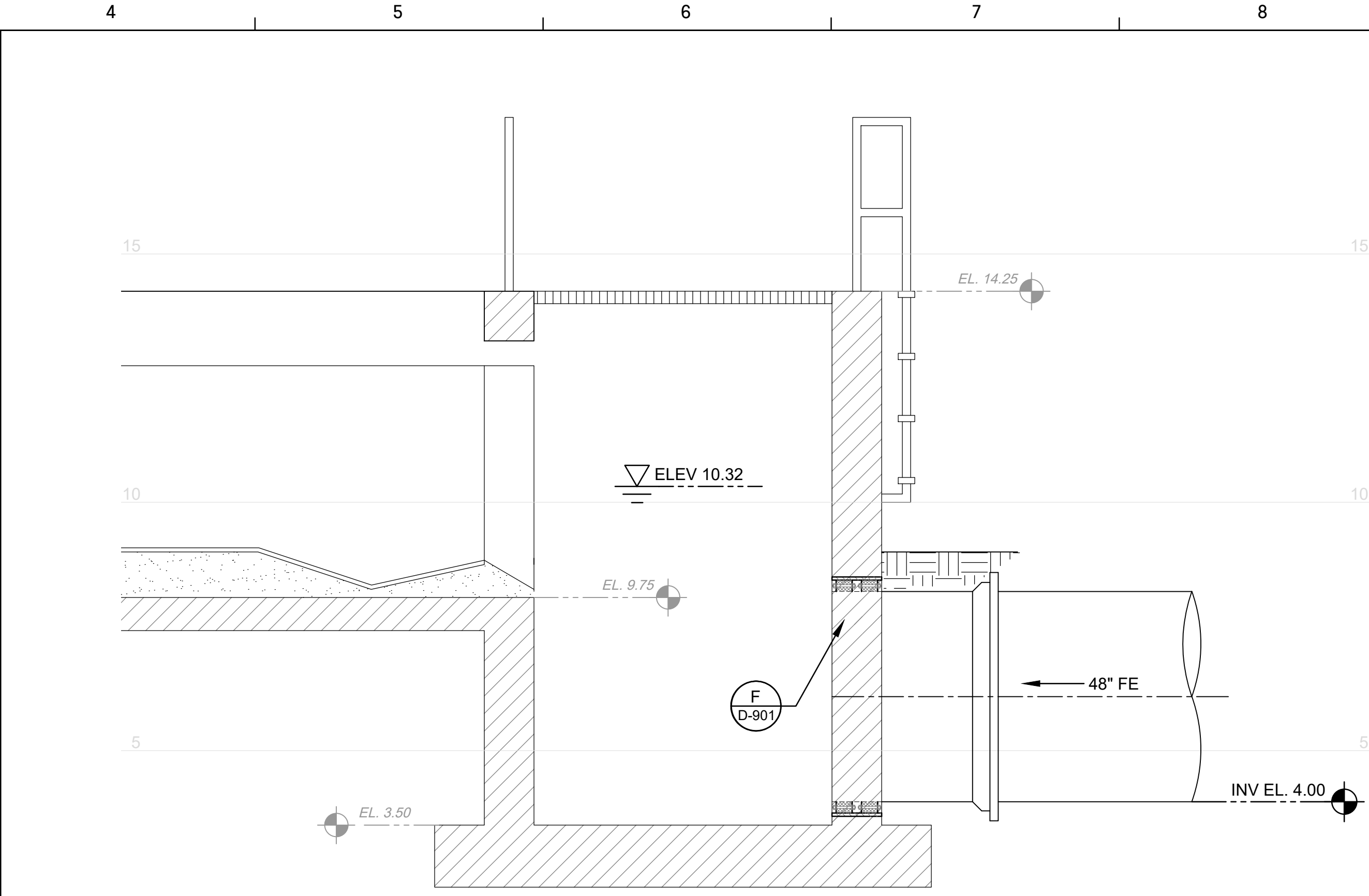
30% SUBMITTAL	10.01.2019	35 Abercorn Street, Suite 200
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PROJECT MANAGER:	JCV	
ENGINEER:	MIEF	
DESIGNER:	GS	
DRAWN BY:	FN/HKD	



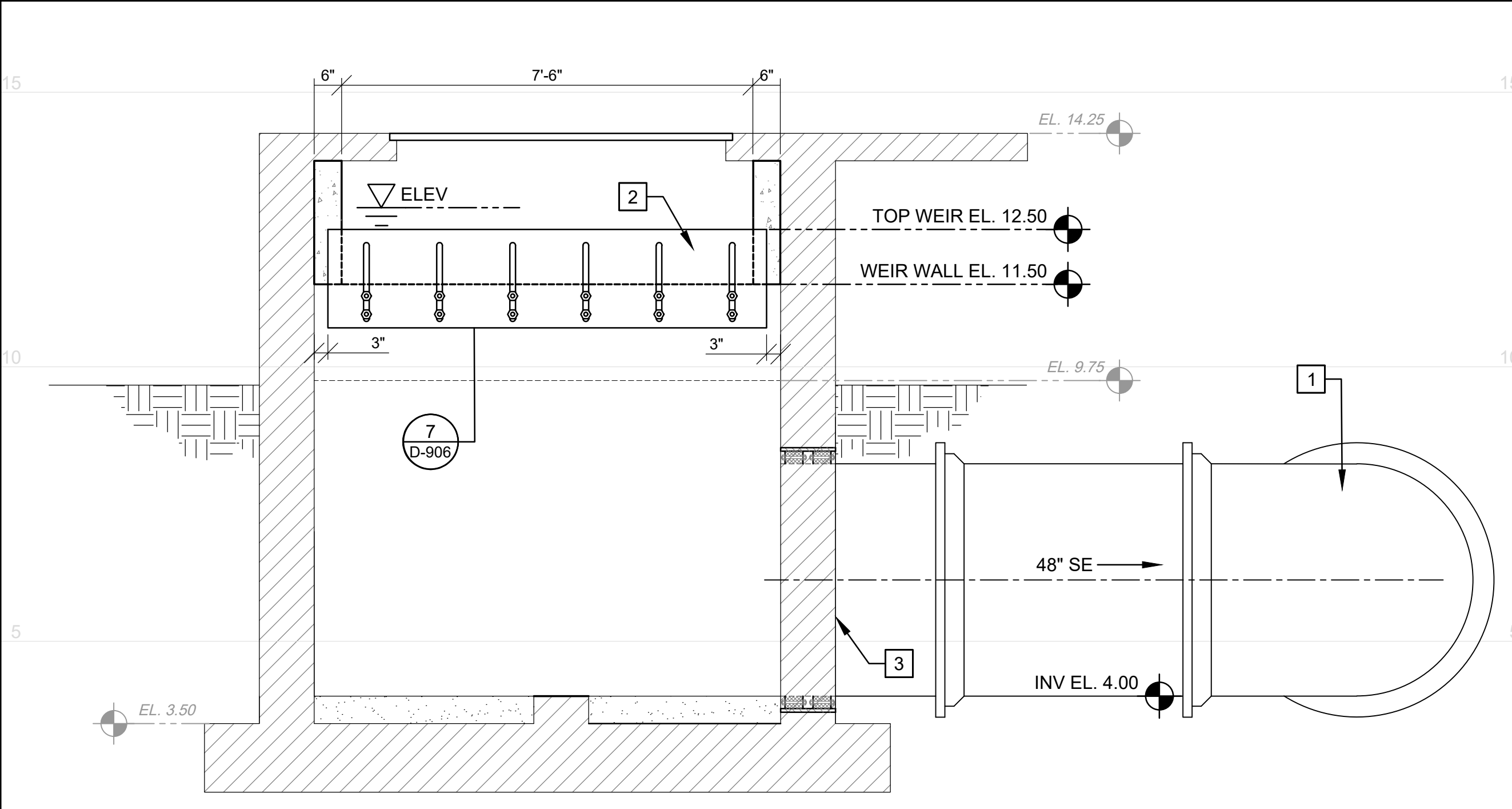
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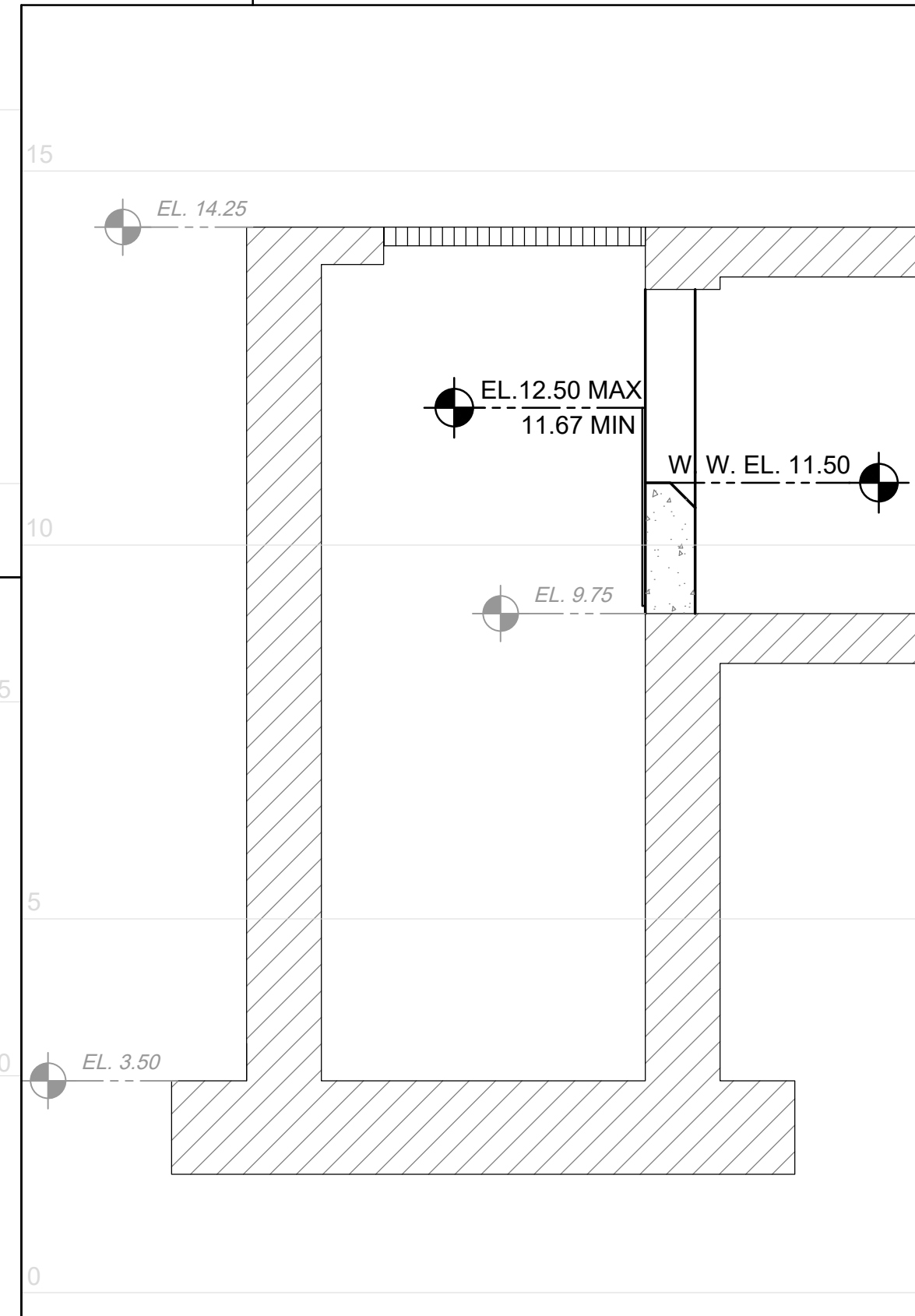
6 PARTIAL PLAN
D-001 SCALE: 1/4" = 1'-0"



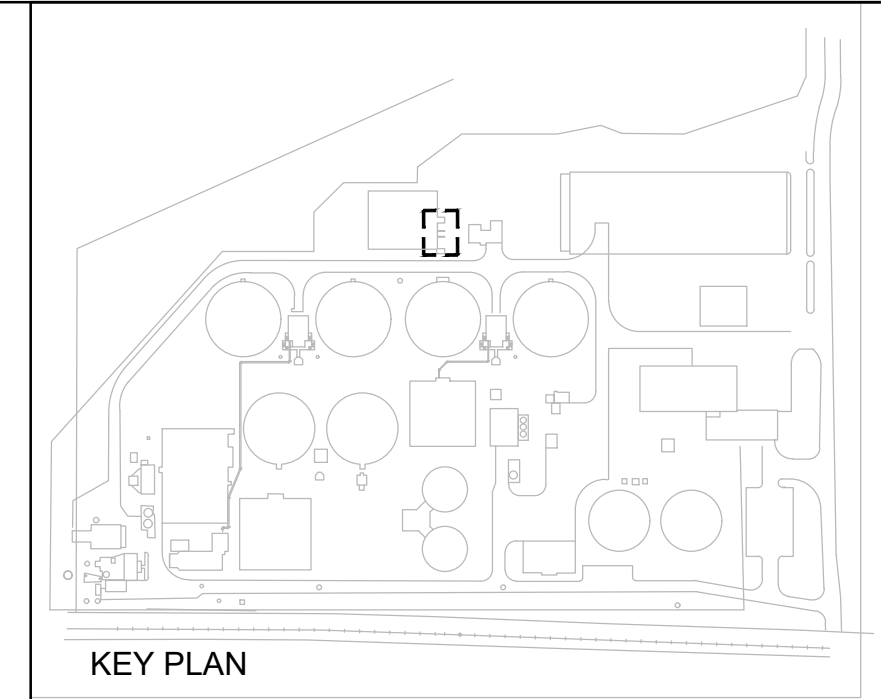
A SECTION
D-601 SCALE: 1/2" = 1'-0"



B SECTION
D-601 SCALE: 1/2" = 1'-0"



C SECTION
D-601 SCALE: 1/2" = 1'-0"



KEY PLAN

- KEY NOTES:**
- 48" MJ 90° BEND
 - ADJUSTABLE STAINLESS STEEL WEIR PLATE. WEIR PLATE ADJUSTABLE FROM 12.67 TO 13.50.
 - CORE DRILL HOLE IN EXISTING WALL & PROVIDE TYPE 'F' WALL PENETRATION

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
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ISSUE DATE

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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

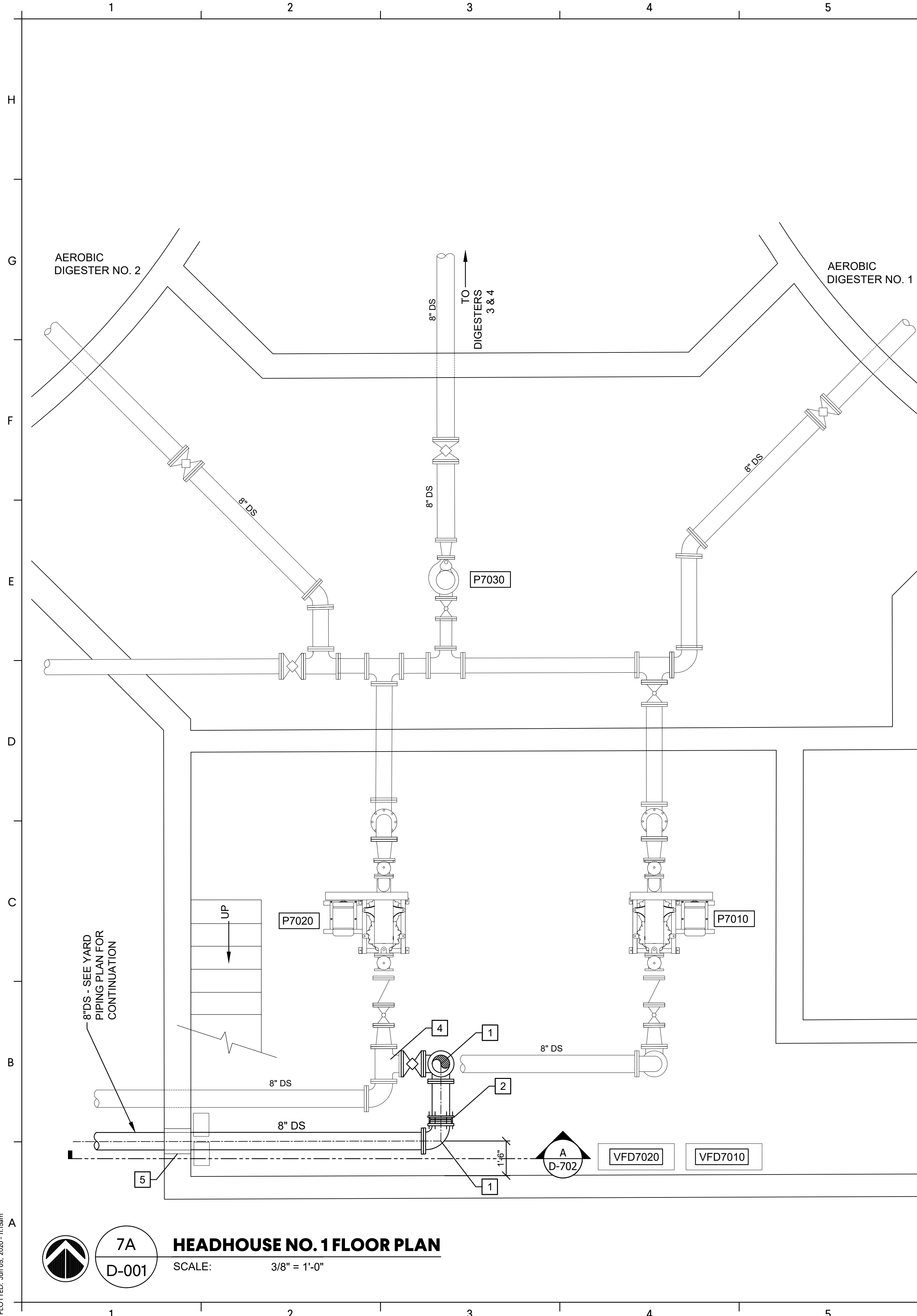
CHLORINE CONTACT TANK MODIFICATIONS

D-601

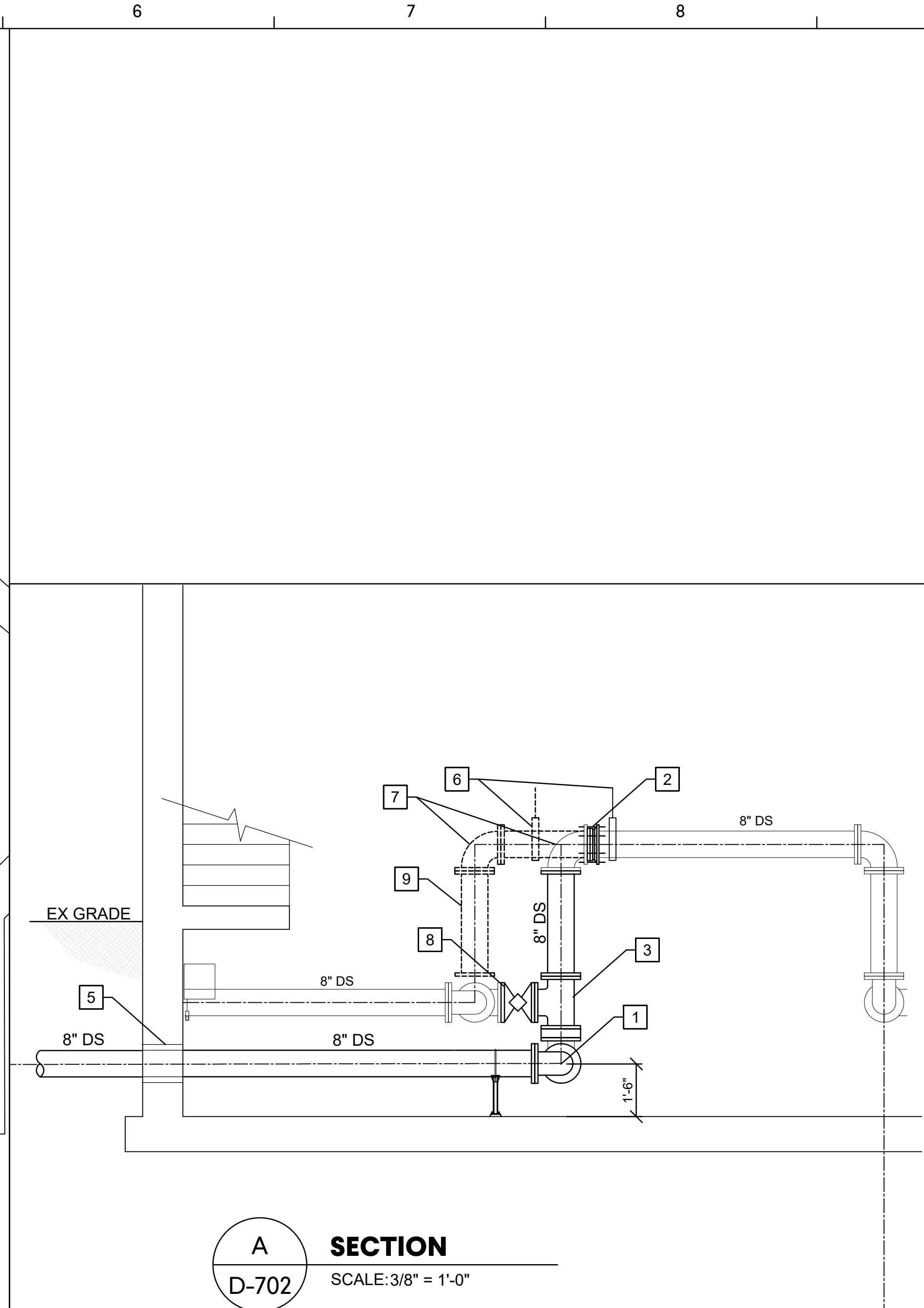
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PLOTTED: Jun 05, 2020 - 11:55am

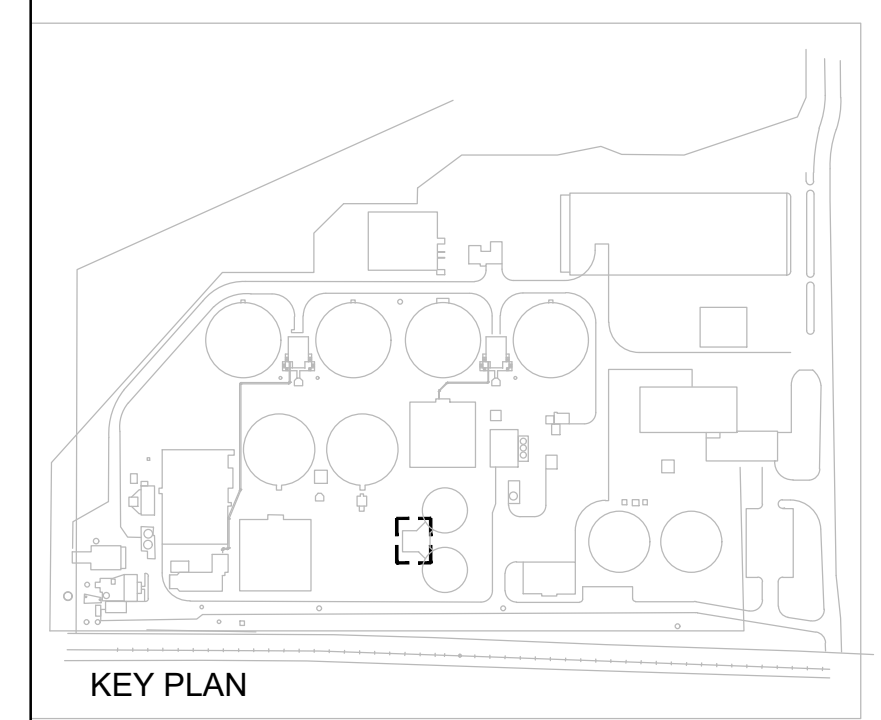


7A HEADHOUSE NO. 1 FLOOR PLAN
D-001 SCALE: 3/8" = 1'-0"



A SECTION
D-702 SCALE: 3/8" = 1'-0"

- KEY NOTES: #**
- 8" 90° BEND
 - 8" FLANGE COUPLING ADAPTER (RESTRAINED)
 - 8" FL TEE
 - ROLL EXISTING TEE 90°
 - CORE DRILL EXISTING WALL BELOW EXISTING ELECTRICAL JUNCTION BOX AND SEAL WITH 2 ROWS OF MODULAR EXPANDING RUBBER SEALS.
 - RELOCATE EXISTING PIPE SUPPORT AND REUSE
 - RELOCATE AND REUSE EXISTING 8" 90° BEND.
 - 8" FL PLUG VALVE WITH MANUAL HANDWHEEL ACTUATOR
 - REUSE EXISTING 8" DS PIPING TO LIMITS SHOWN



MODIFICATIONS TO HEADHOUSE NO. 1

D-702

2019 WPCF REHABILITATION
ACADEMY CREEK
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CONSTRUCTION SUBMITTAL	06.15.2020

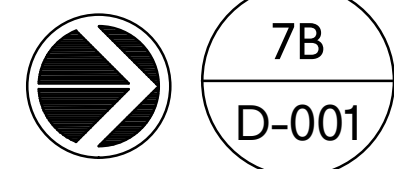
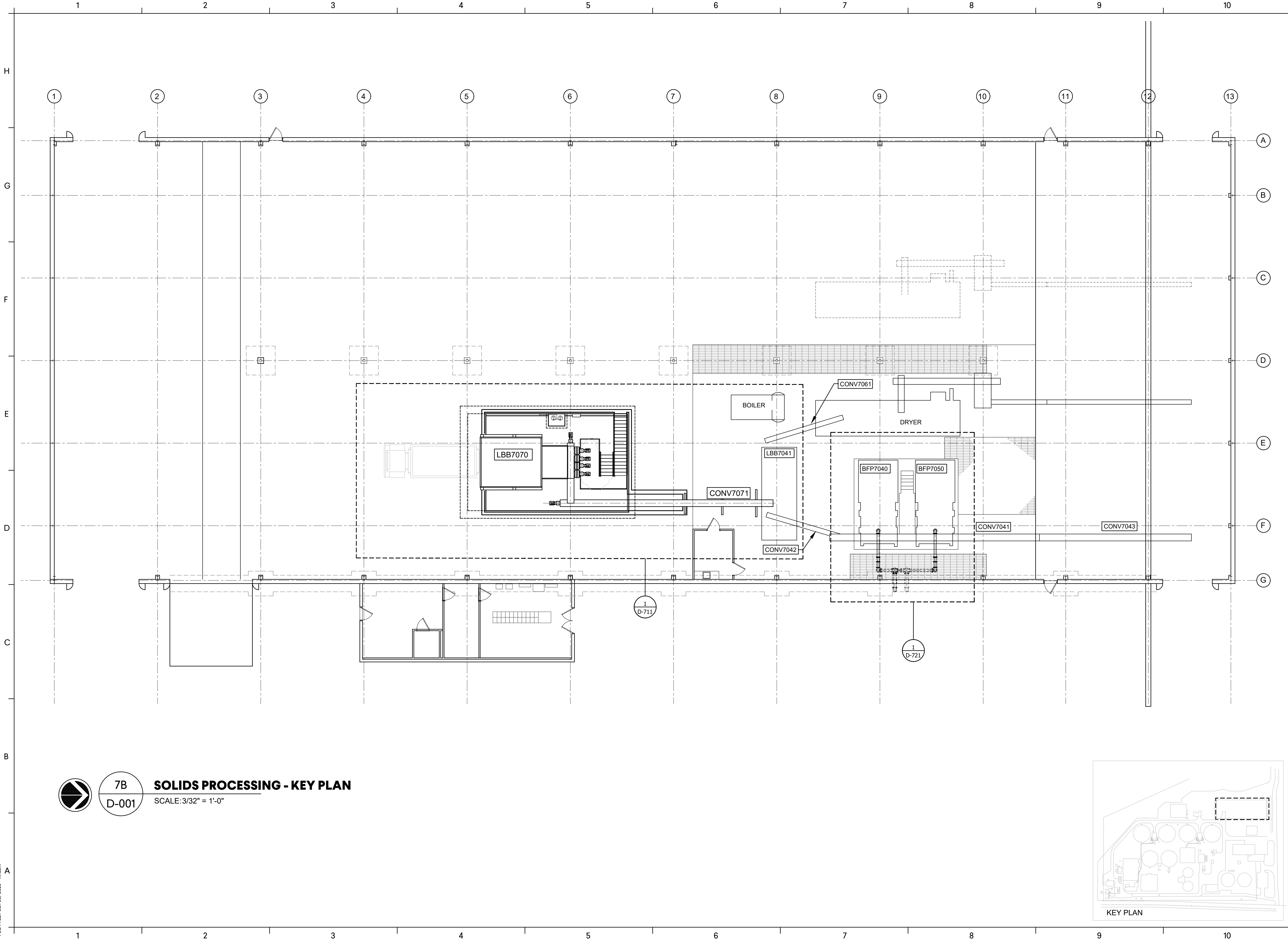
PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

1" = 0' 5" 0" 1"

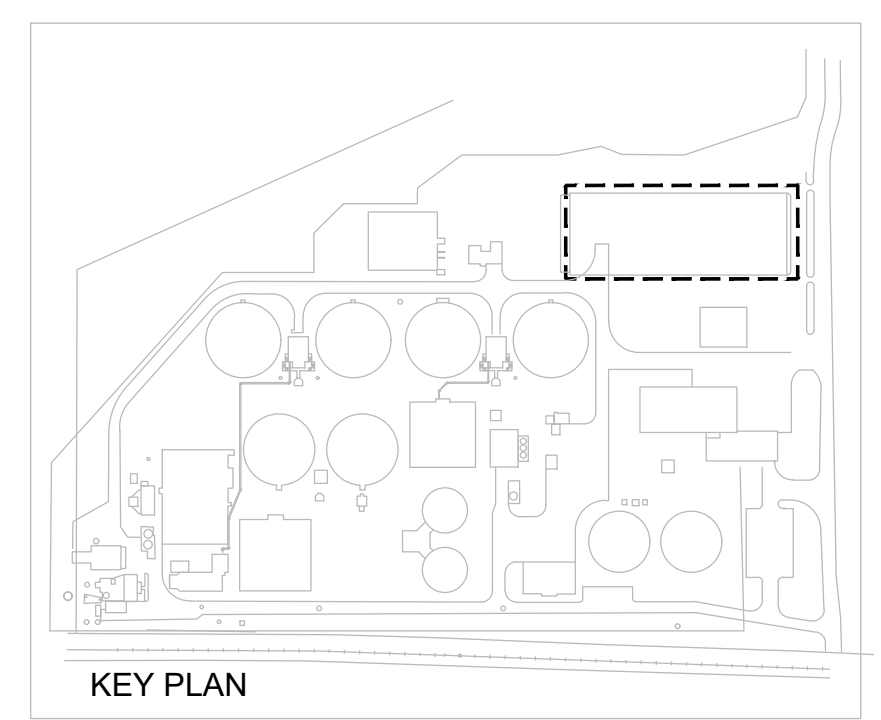
GEORGIA REGISTERED PROFESSIONAL ENGINEER
JAMES C. VAHNER
17174

BGJWSC Project No. 906
GMC Project #CSAV190007

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PLOTTED: Jun 05, 2020 - 11:55am



SOLIDS PROCESSING - KEY PLAN
SCALE: 3/32" = 1'-0"



KEY PLAN

**SOLIDS PROCESSING
AREA KEY PLAN**

D-710

**2019 WPCF REHABILITATION
ACADEMY CREEK**

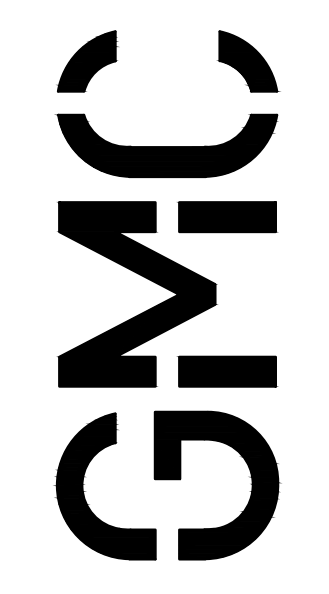
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

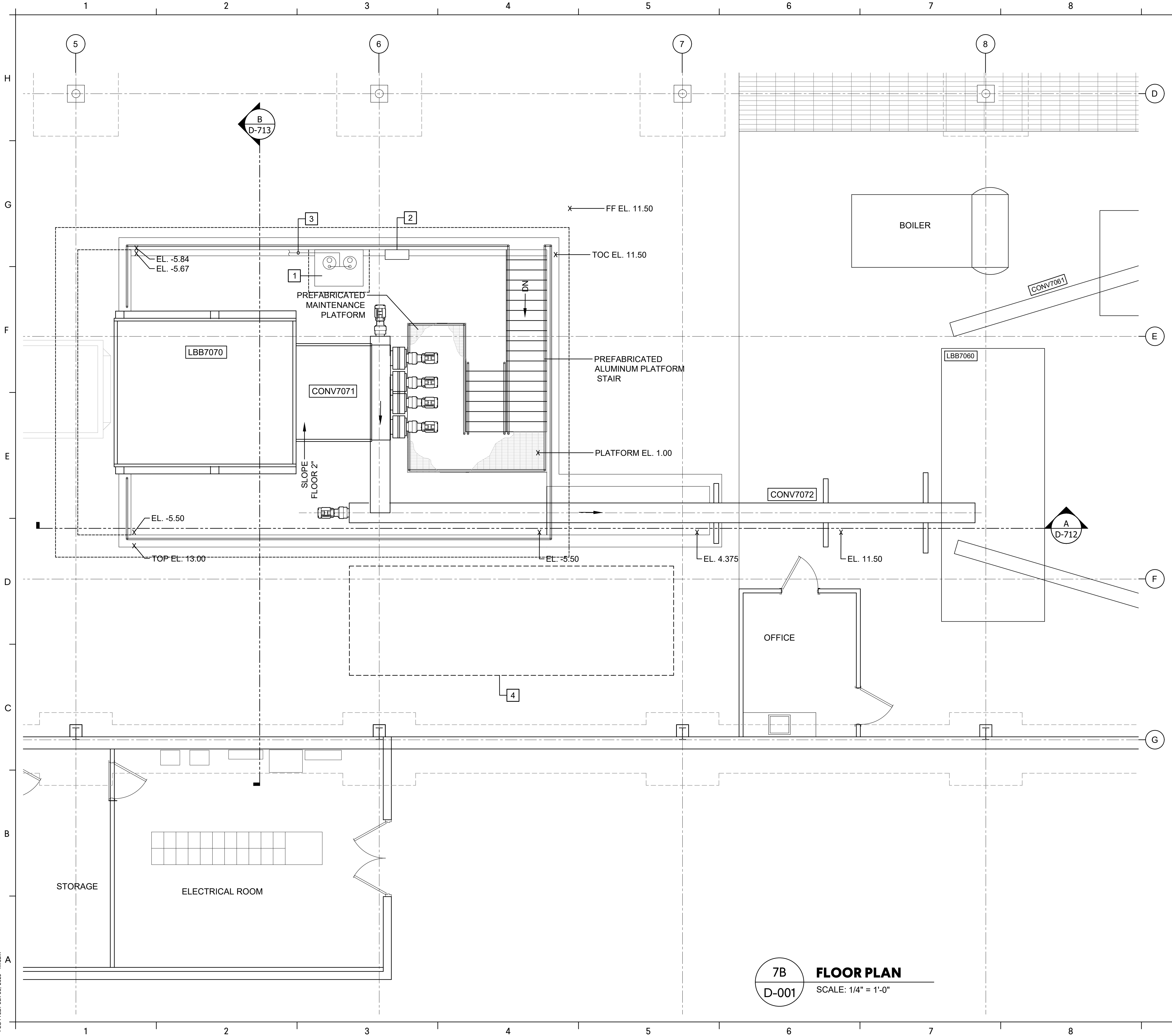


ISSUE	DATE
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CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

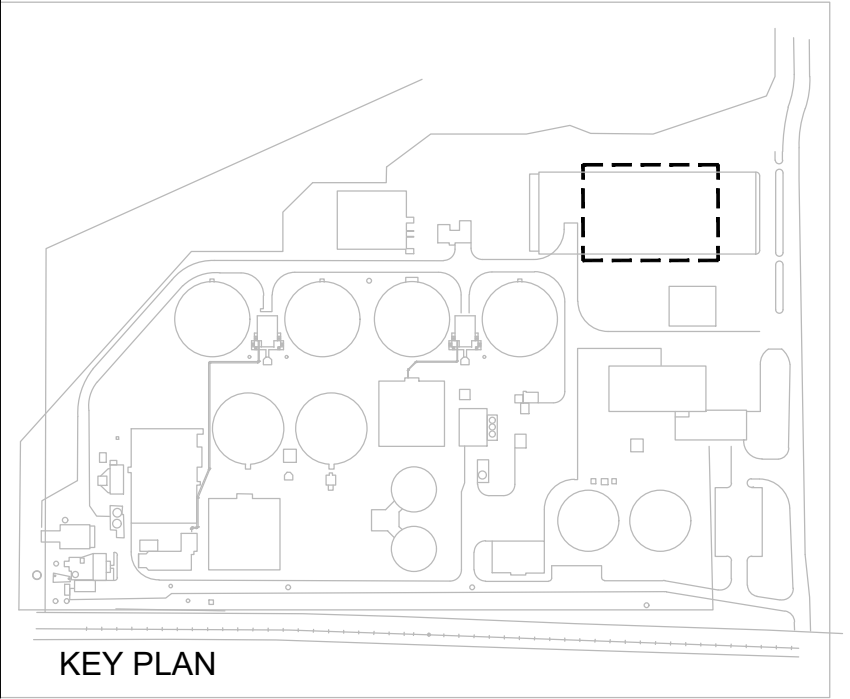
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PLOTTED: Jun 05, 2020 - 11:18am



7B FLOOR PLAN
D-001 SCALE: 1/4" = 1'-0"



- KEY NOTES: #**
- 3'X4'X2' SUMP W/ DUPLEX LIBERTY SERIES 280, 120V, 1Ø, 1/2 HP PUMPS, 120 GPM @ 32' TDH.
 - NEMA 1, DUPLEX PUMP CONTROL PANEL BY PUMP VENDOR W/ 3 FLOATS AND HIGH LEVEL ALARM.
 - 1 1/2" PUMP DRAIN, DIRECT TO NEAREST PLANT DRAIN MANHOLE & PROVIDE 1 1/2" DUCKBILL CHECK VALVE AT OUTLET.
 - TEMPORARY RELOCATE EXISTING MODULAR OFFICE W/ TEMPORARY POWER CONNECTION. AT COMPLETION OF LBB CONSTRUCTION, RETURN MODULAR OFFICE TO PREVIOUS LOCATION AND RECONNECT POWER.

SLUDGE OFFLOADING AREA

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION



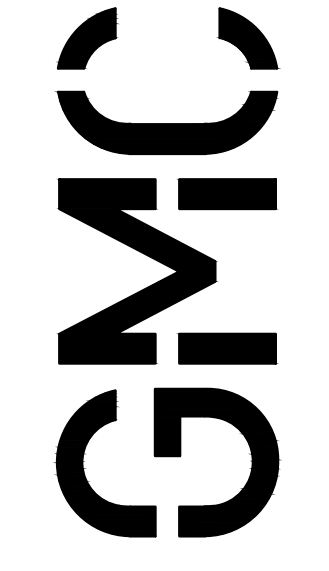
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GMC Project #CSAV190007

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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

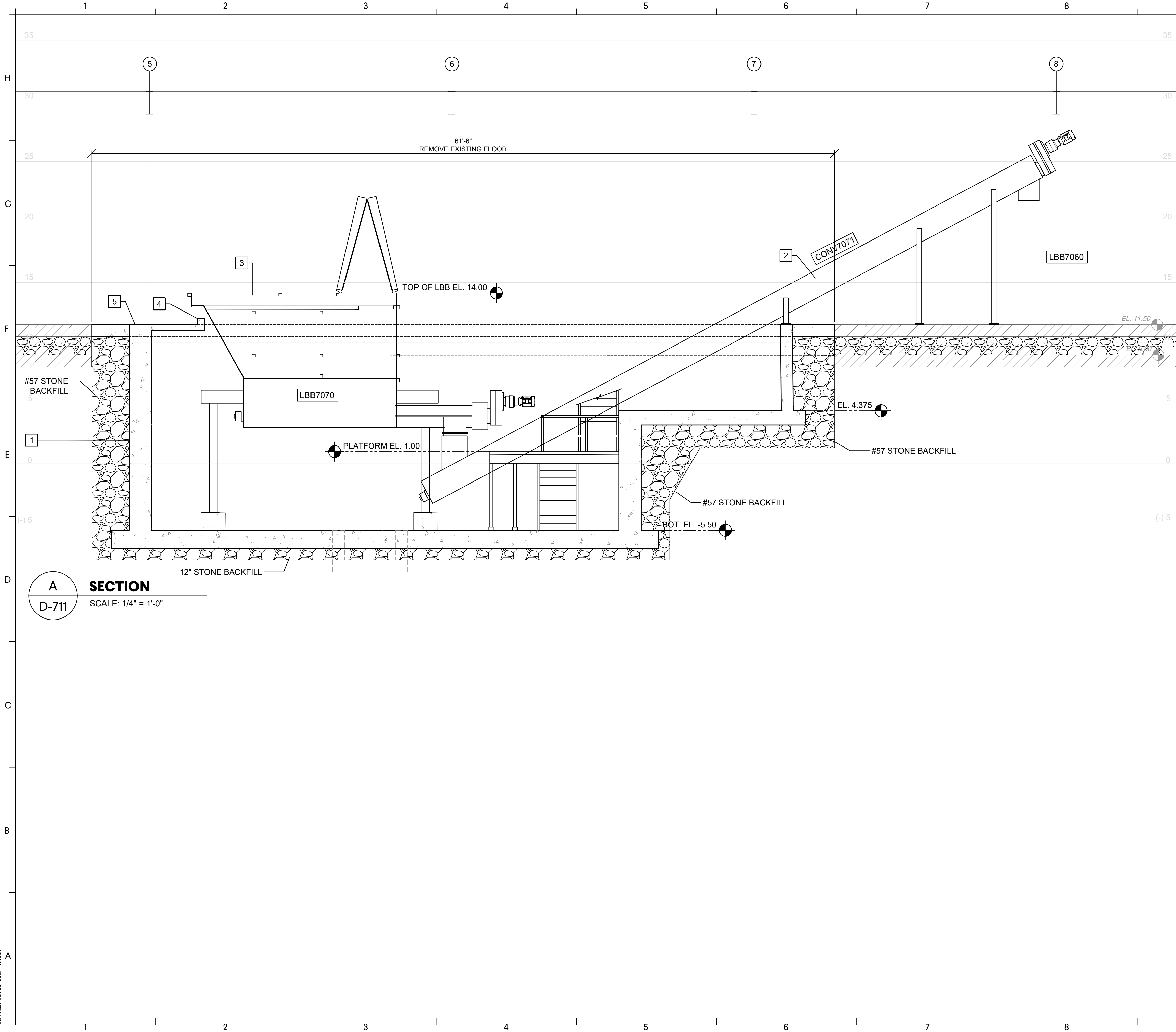
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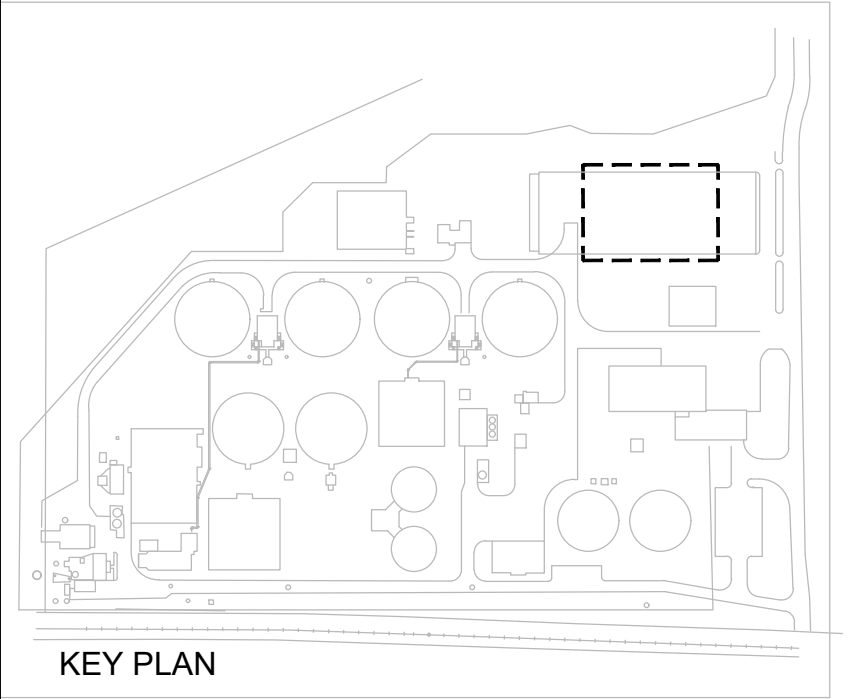
D-711

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PLOTTED: Jun 05, 2020 - 11:18am



A
D-711
SECTION
SCALE: 1/4" = 1'-0"

- KEY NOTES: #**
- 1. SEALED VAULT WITH WATER TIGHT ACCESS COVER.
 - 2. SHATLESS SCREW CONVEYOR
 - 3. ACTIVATED SLUDGE BIN
 - 4. 6" CURBING
 - 5. 1/4" PLATE STEEL GAP COVER



**SLUDGE OFFLOADING
AREA - SECTIONS**

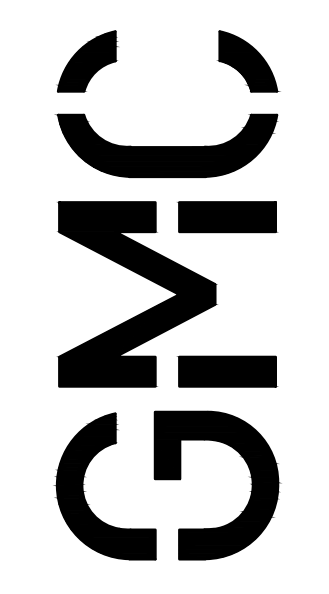
**2019 WPCF REHABILITATION
ACADEMY CREEK**
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



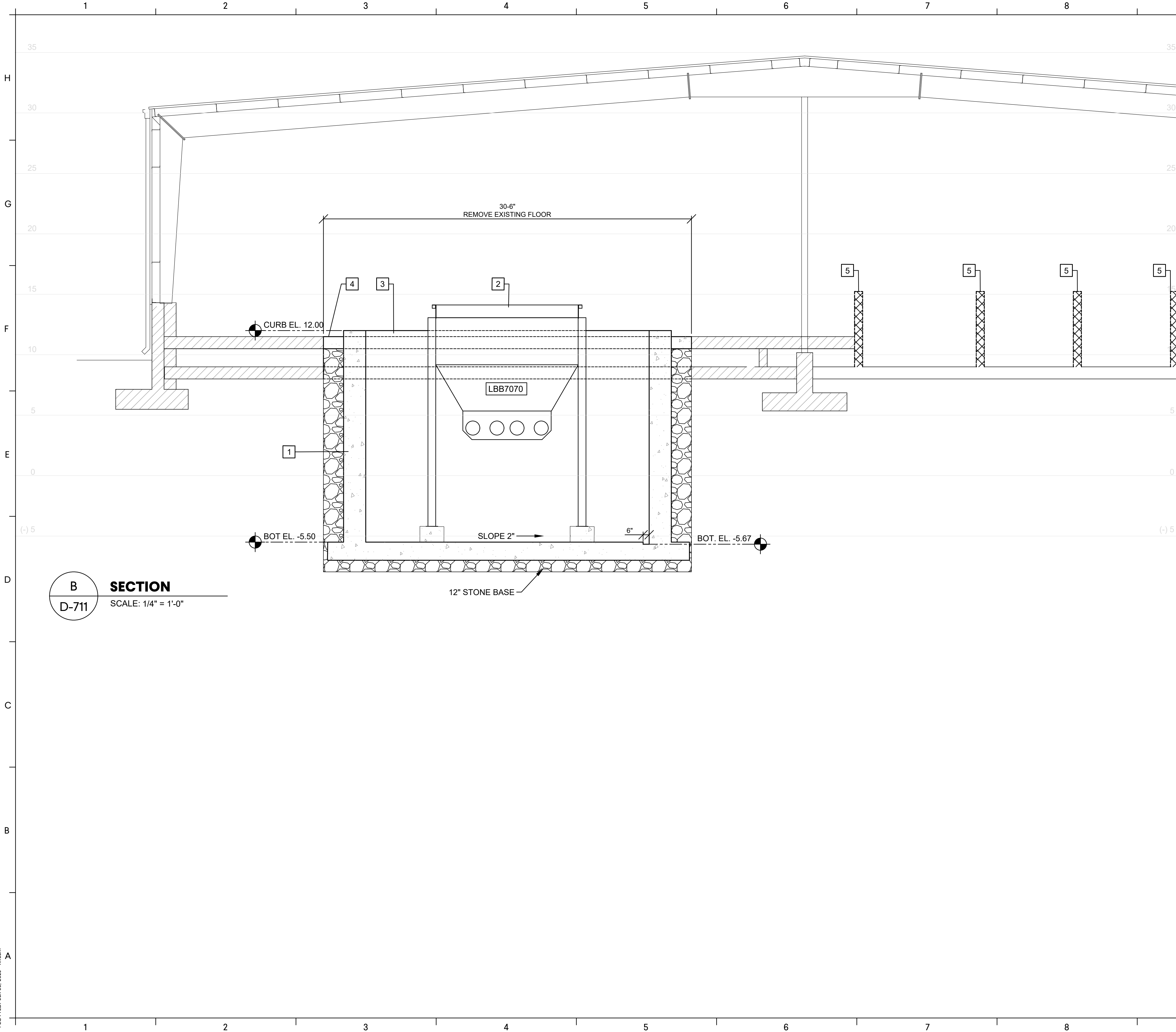
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CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



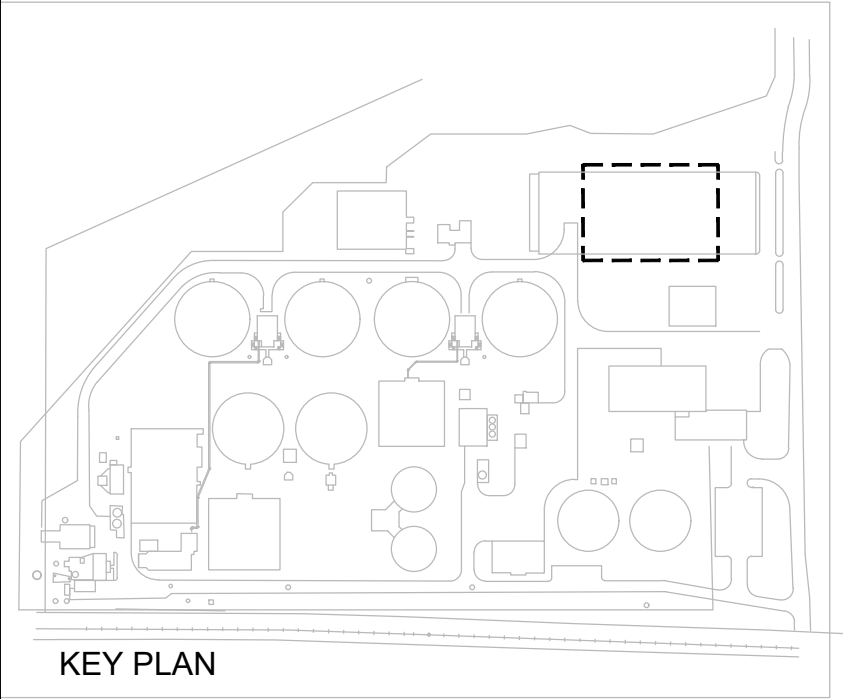
D-712

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PLOTTED: Jun 05, 2020 - 11:18am



B
D-711 **SECTION**
SCALE: 1/4" = 1'-0"

- KEY NOTES: #**
1. SEALED VAULT WITH WATER TIGHT ACCESS COVER.
 2. ACTIVATED SLUDGE BIN
 3. 6" CURBING
 4. 1/4" PLATE STEEL GAP COVER
 5. SAW CUT AND REMOVE EXISTING WALLS FLUSH W/ SLAB THIS SIDE OF BUILDING. (ALL WALLS NOT SHOWN IN THIS VIEW)



KEY PLAN

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

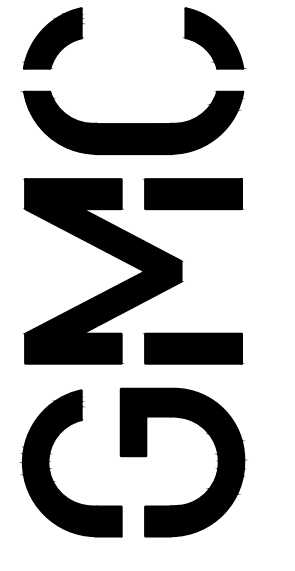
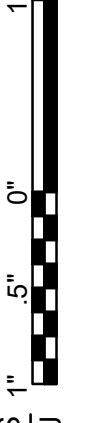


**SLUDGE OFFLOADING
AREA - SECTIONS**

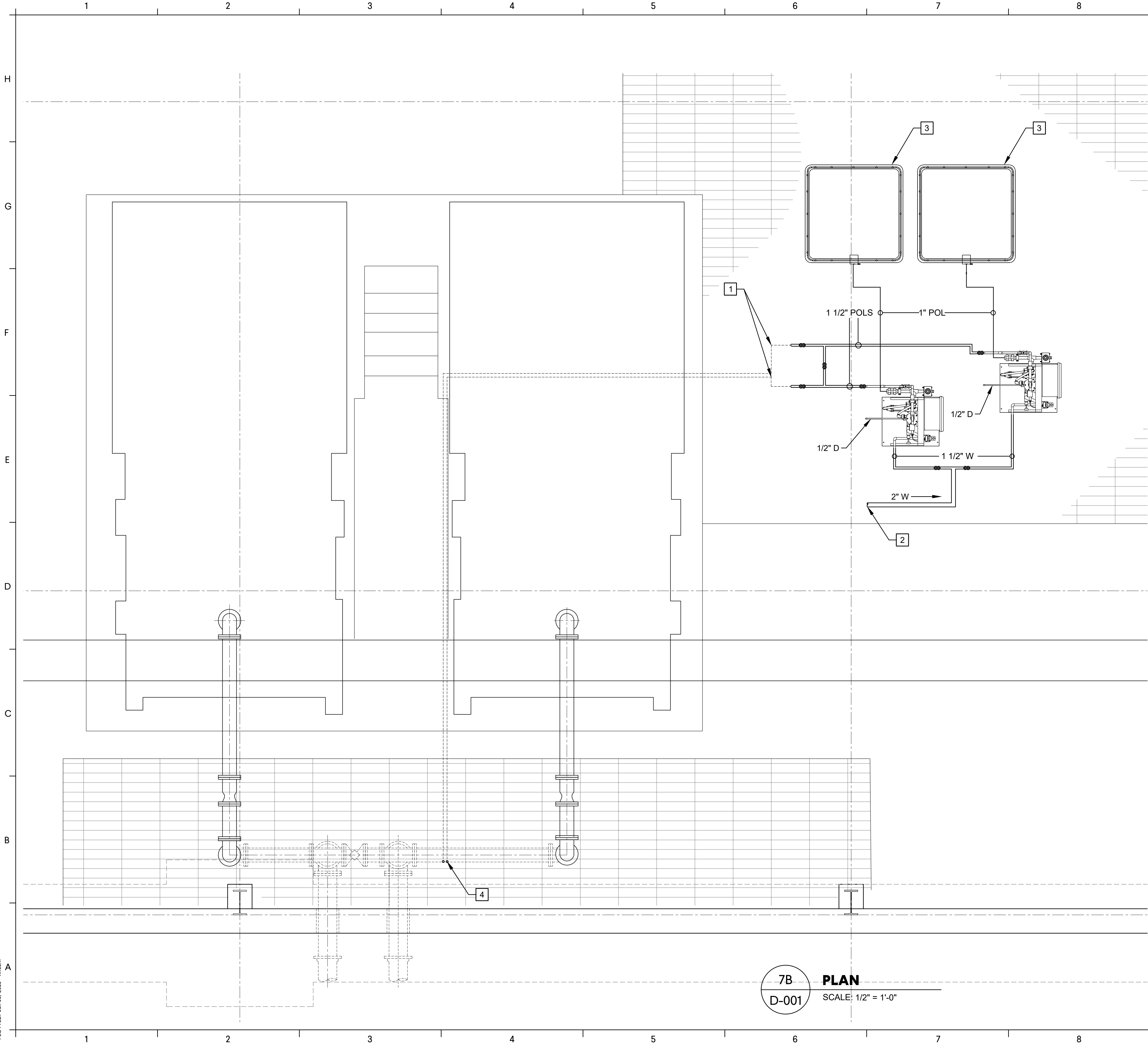
D-713

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ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ



DRAWING FILE: W:\CIVIL\CSAV\190007 BGJWSC WPC Rehab\10 DWG\CAD\01 BID DRAWINGS\11 PROCESS\11 PROCESS-D-714 Sludge Offloading Area Inside Building.dwg
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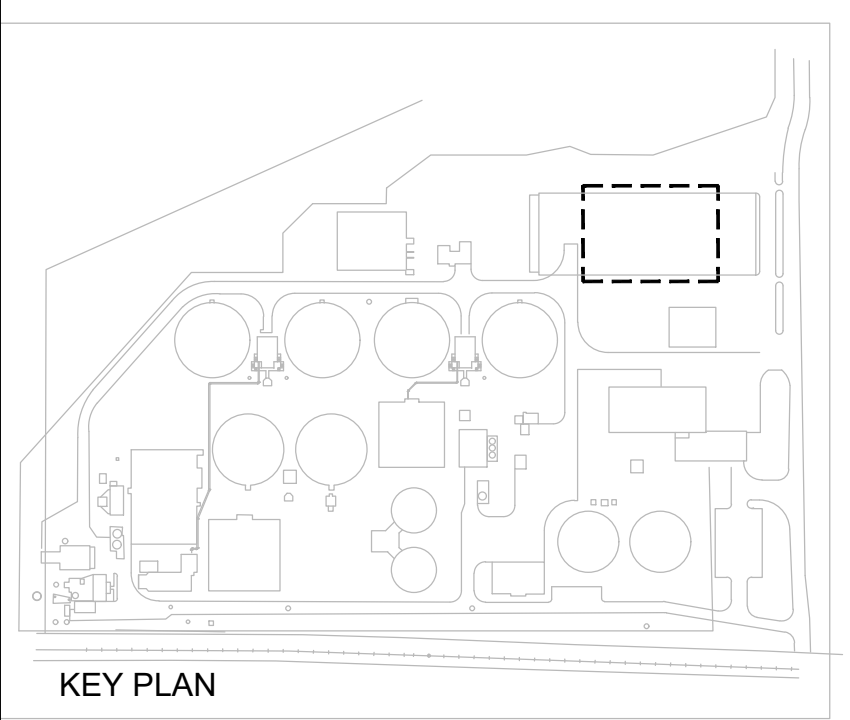
7B PLAN
D-001 SCALE: 1/2" = 1'-0"

KEY NOTES: #

- 1 PARALLEL EXISTING POLYMER SOLUTION LINE WITH TWO (2) NEW 1 1/2" POLYMER SOLUTION LINES. DEMO EXISTING POLYMER SOLUTION LINE.
- 2 CONNECT TO EXISTING 2" POTABLE WATER LINE.
- 3 EXISTING NEAT POLYMER TOTES
- 4 CONNECT TO EXISTING POLYMER INJECTION COLLARS.

NOTES:

- 1. DEMO EXISTING POLYMER MIXING SYSTEM.



KEY PLAN

2019 WPCF REHABILITATION
ACADEMY CREEK

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



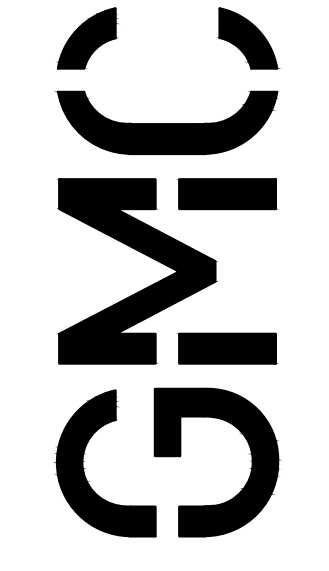
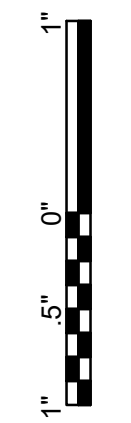
POLYMER SYSTEM
AND SLUDGE FEED
PIPING

D-714

ISSUE DATE

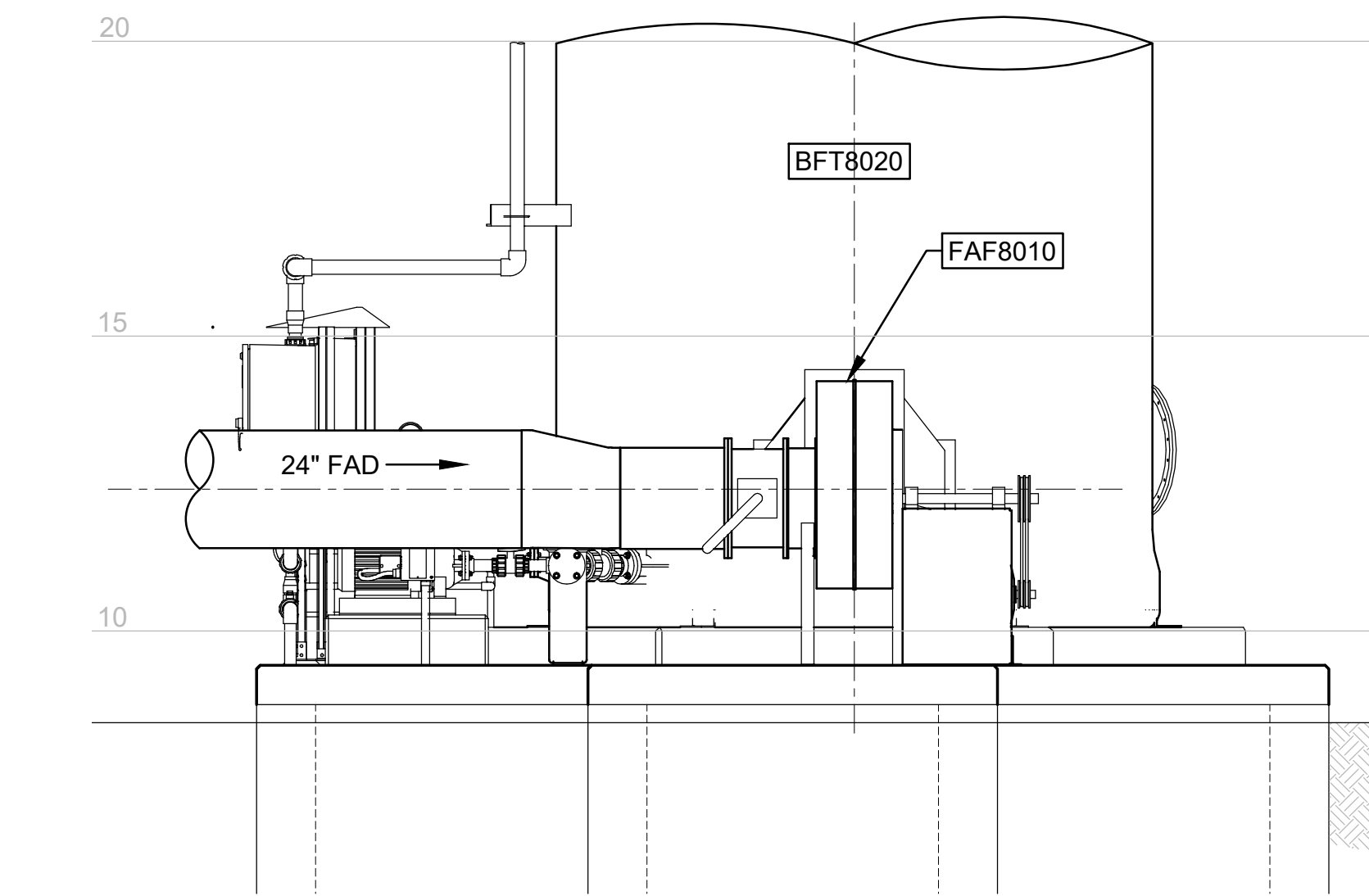
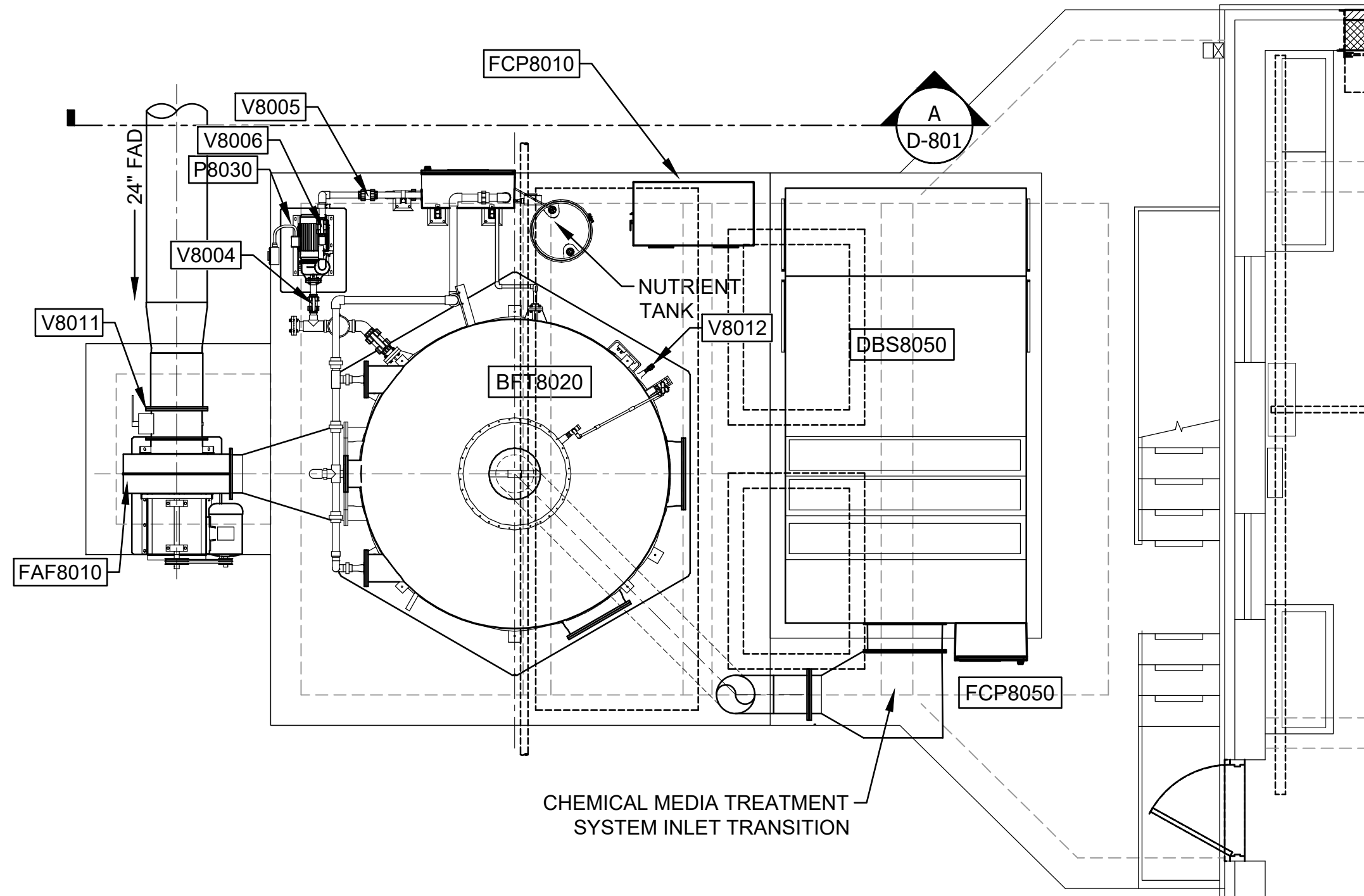
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020
PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

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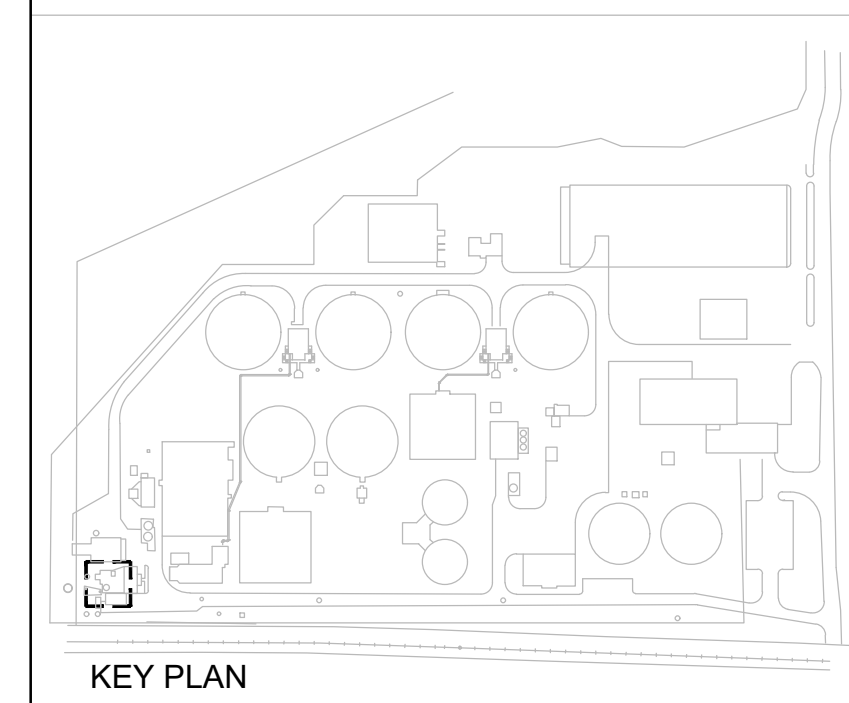
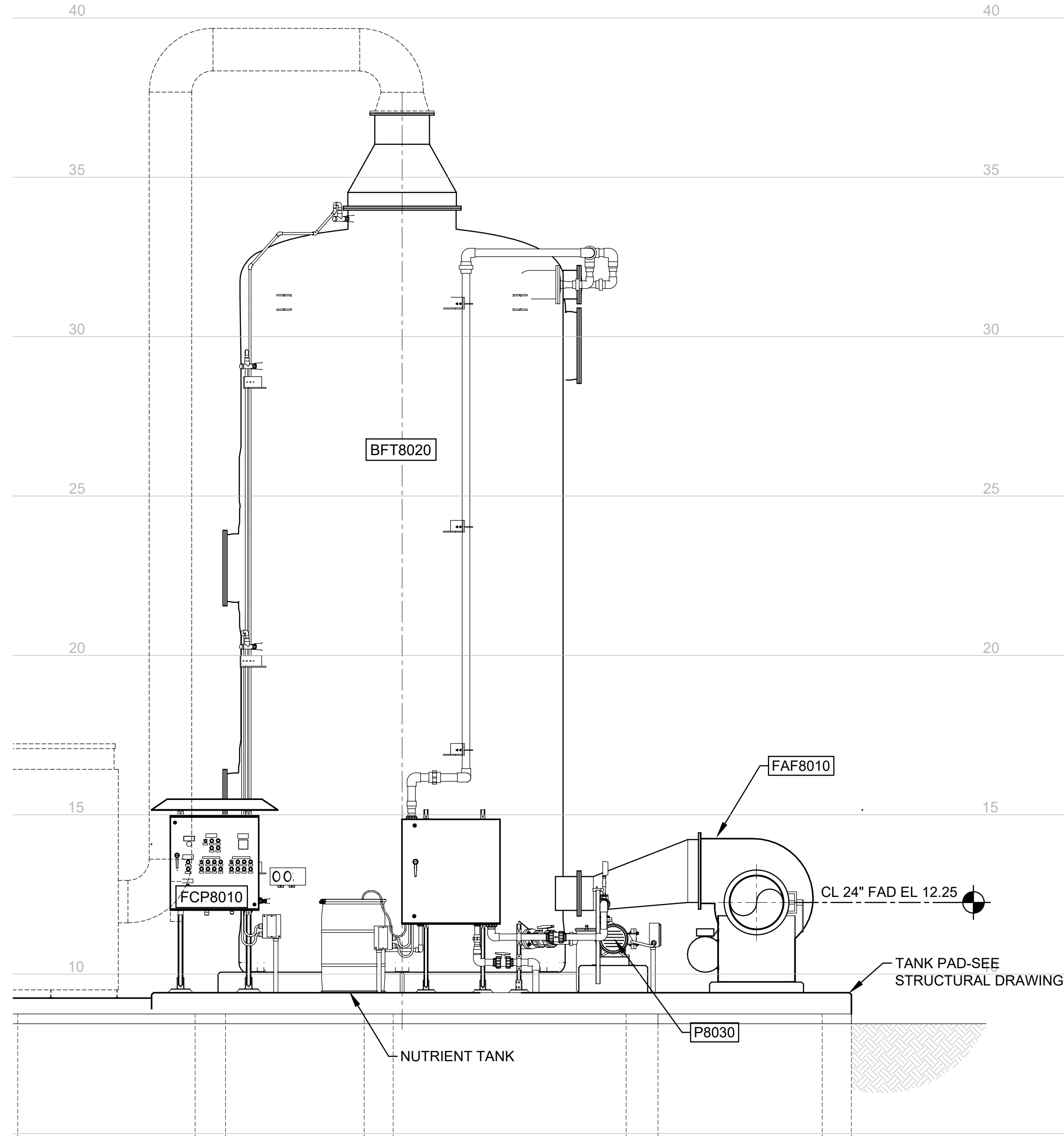
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PLOTTED: Jun 05, 2020 - 11:18am

8 PLAN
D-001 SCALE: 1/4" = 1'-0"



B ELEVATION
D-801 SCALE: 3/8" = 1'-0"

A ELEVATION
D-801 SCALE: 3/8" = 1'-0"



KEY PLAN

ODOR TREATMENT SYSTEM PLAN & DETAILS

D-801

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

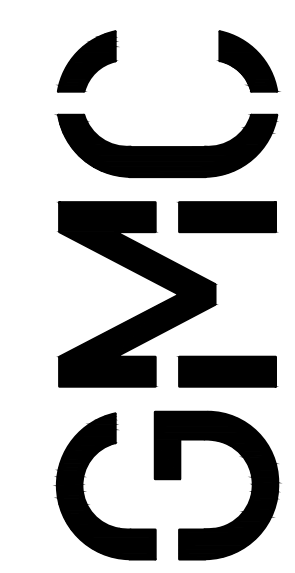


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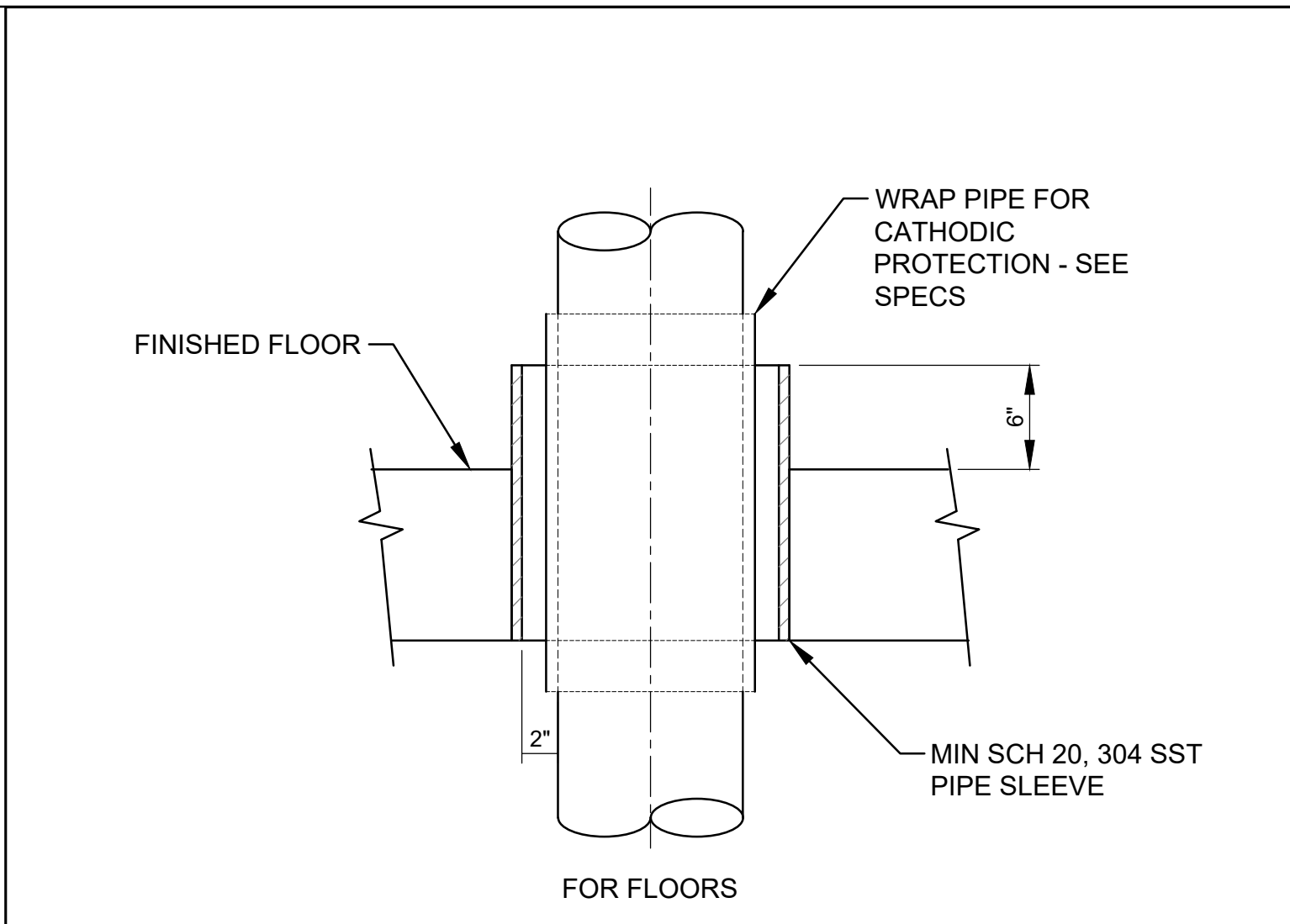
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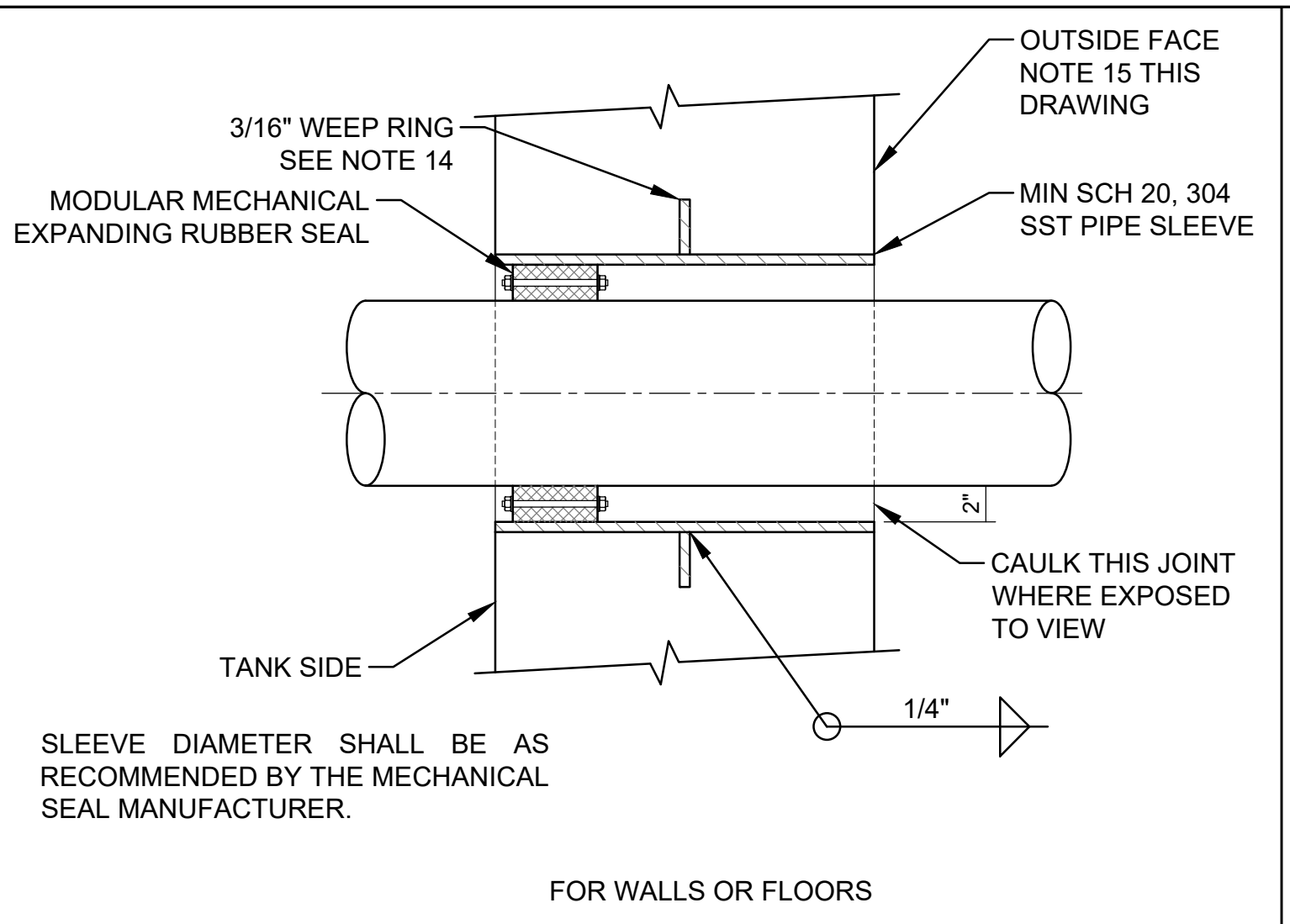
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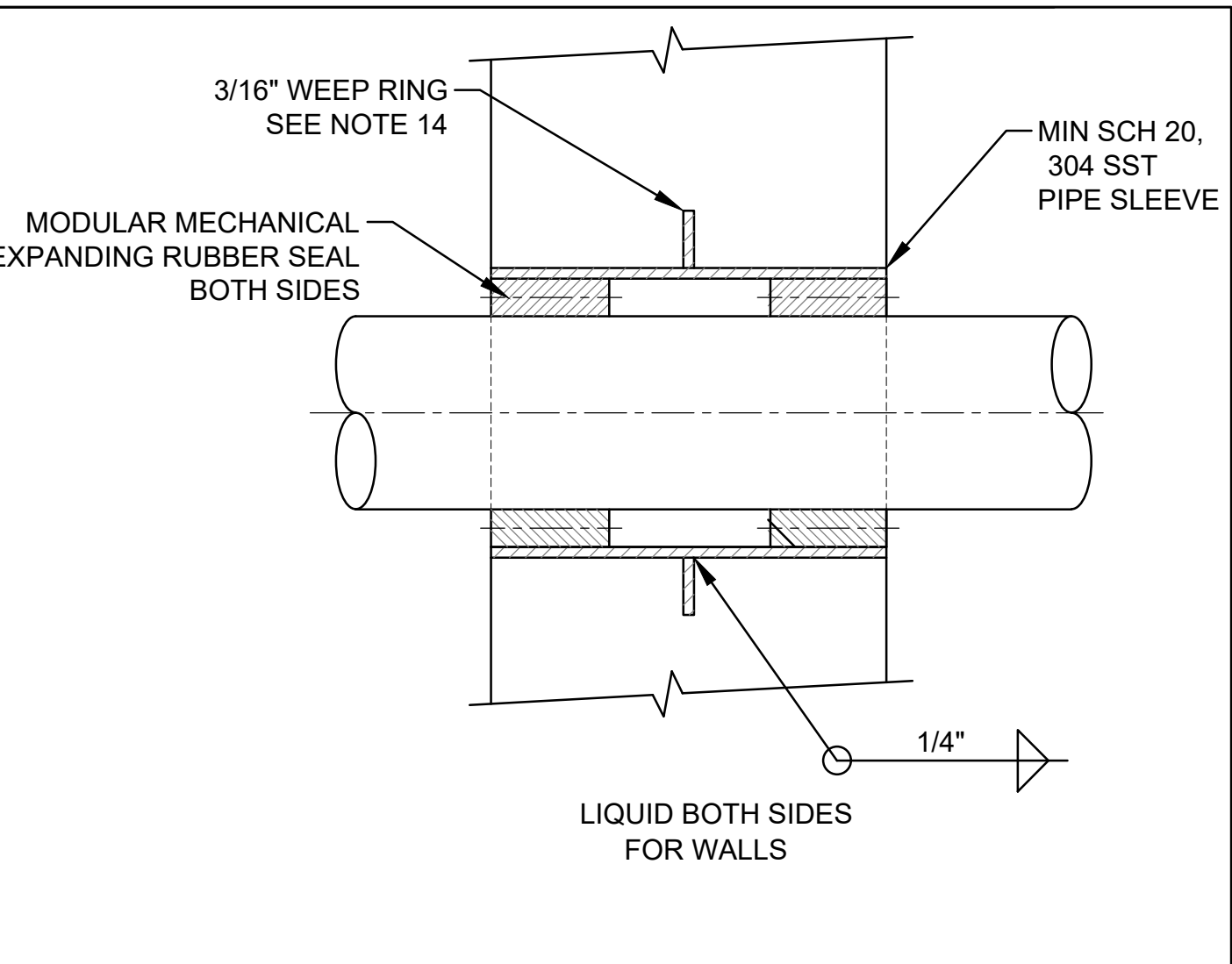
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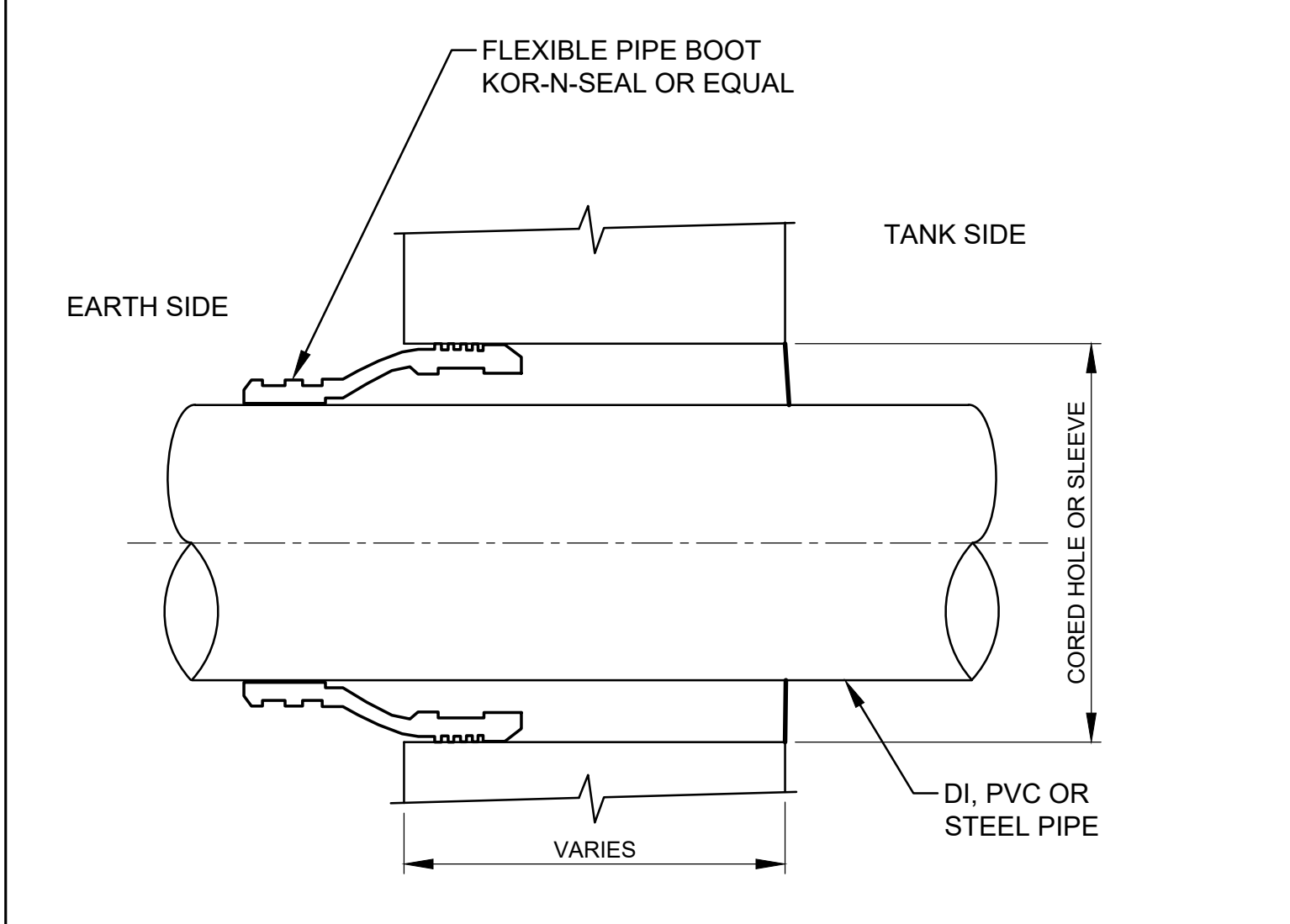
A **DETAIL - TYPE 'A' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



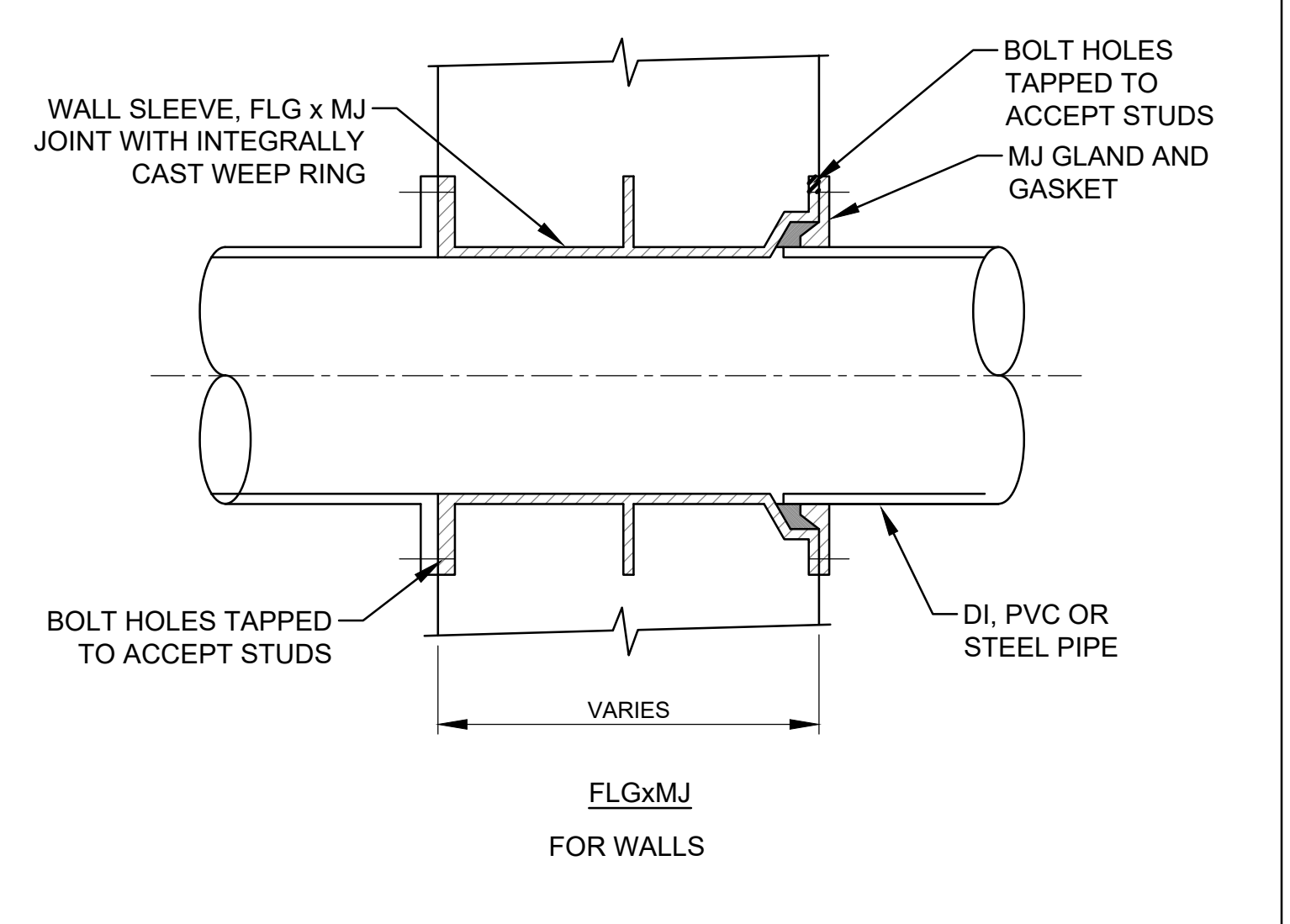
B **DETAIL - TYPE 'B' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



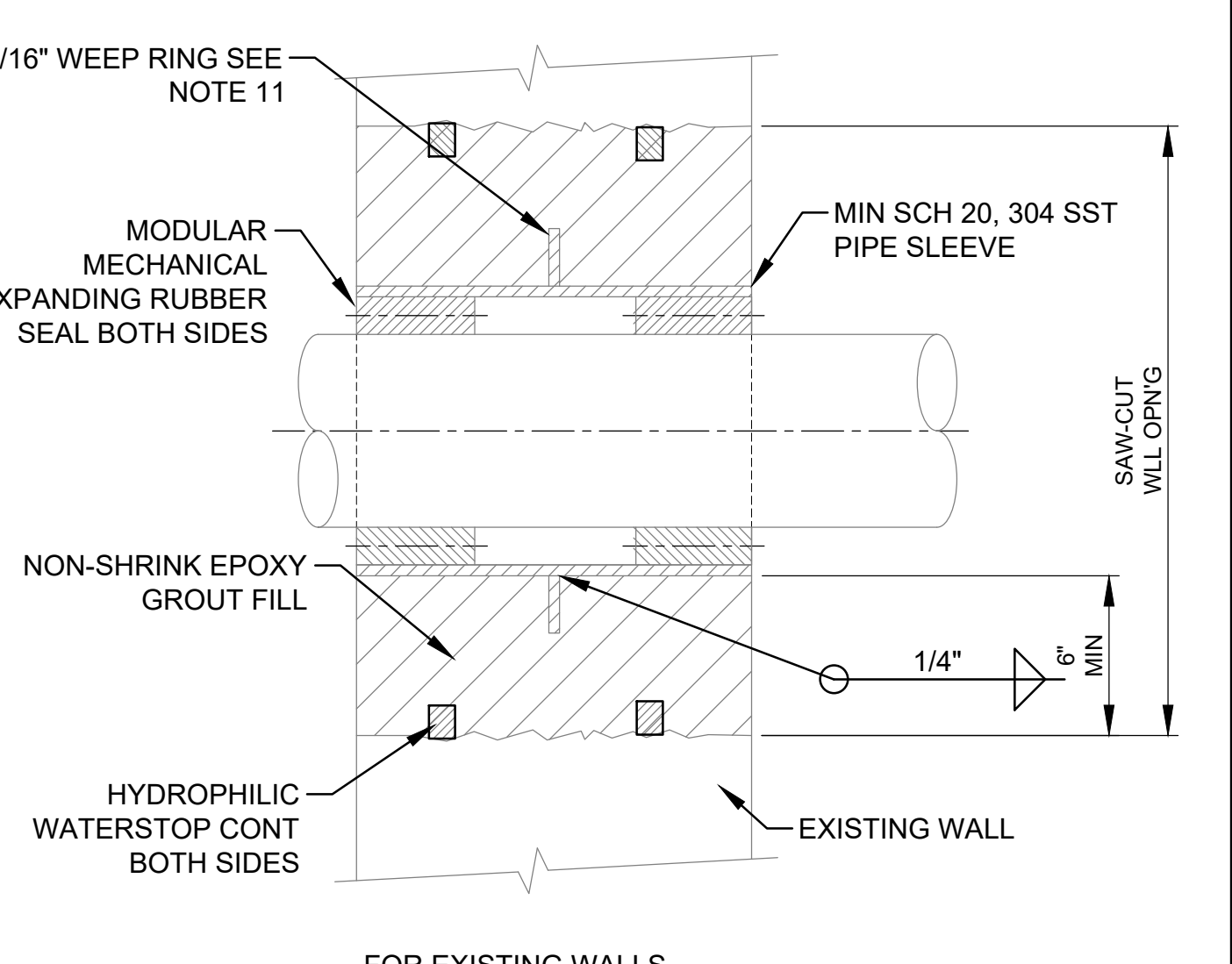
C **DETAIL - TYPE 'C' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



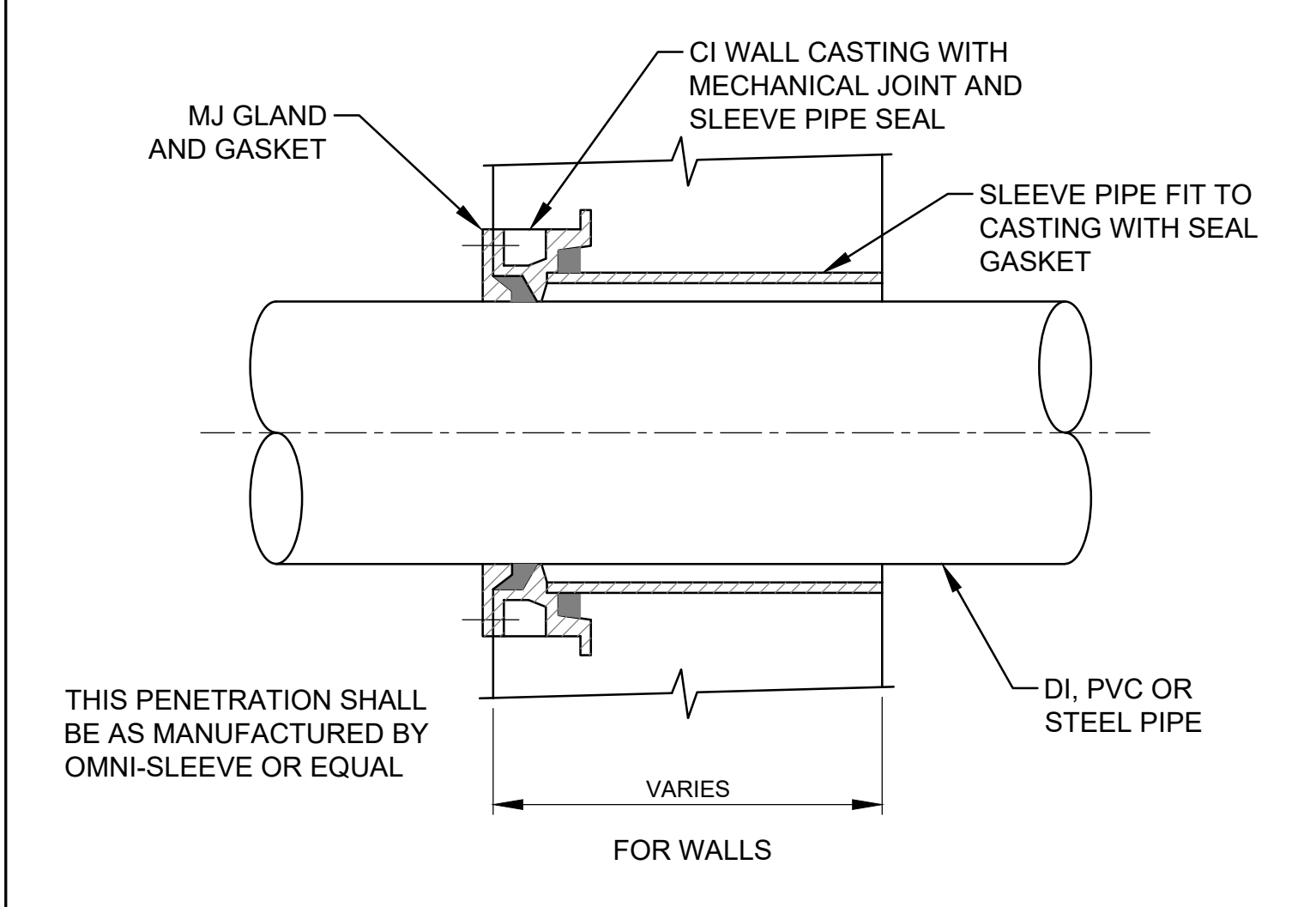
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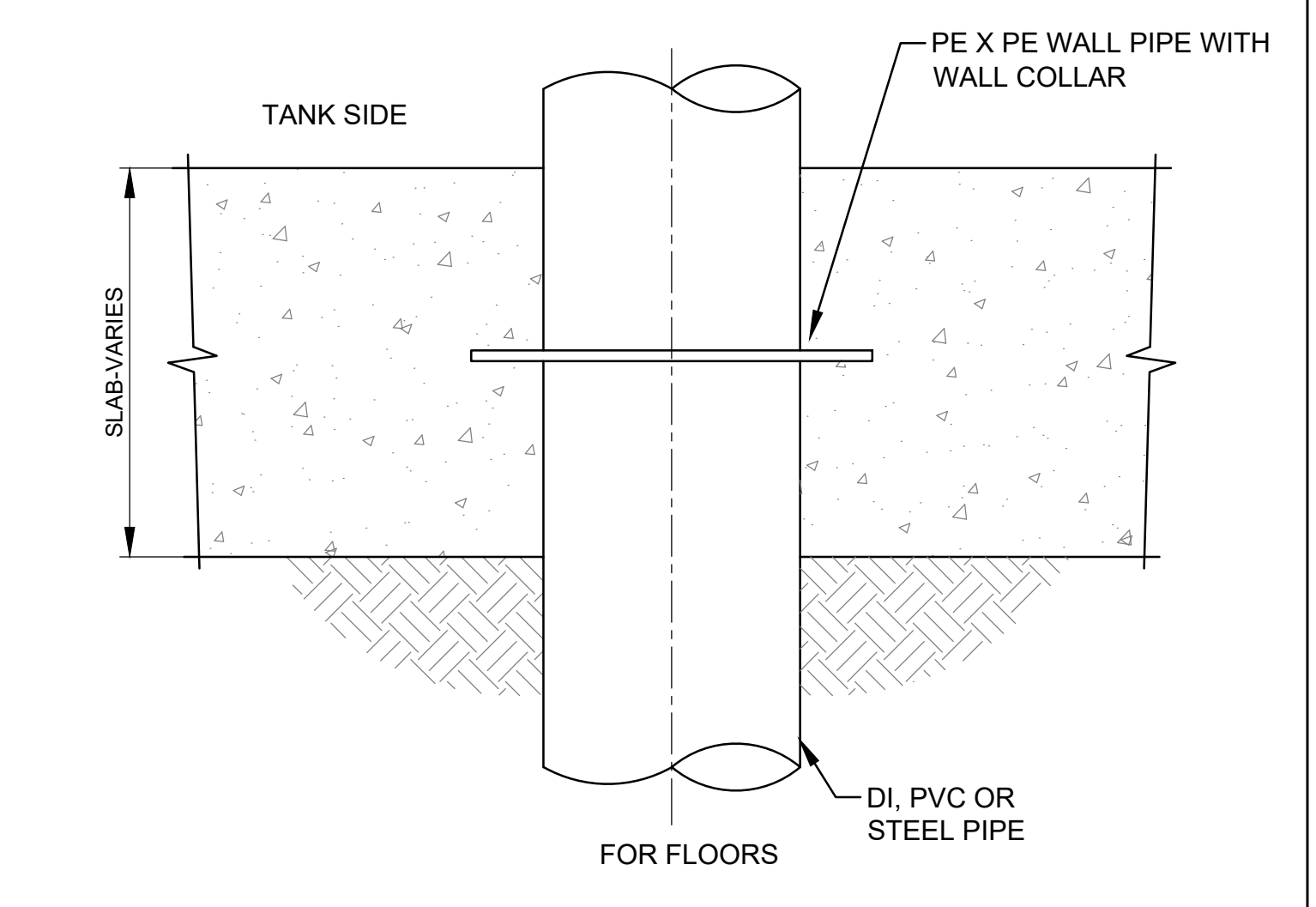
E **DETAIL - TYPE 'E' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



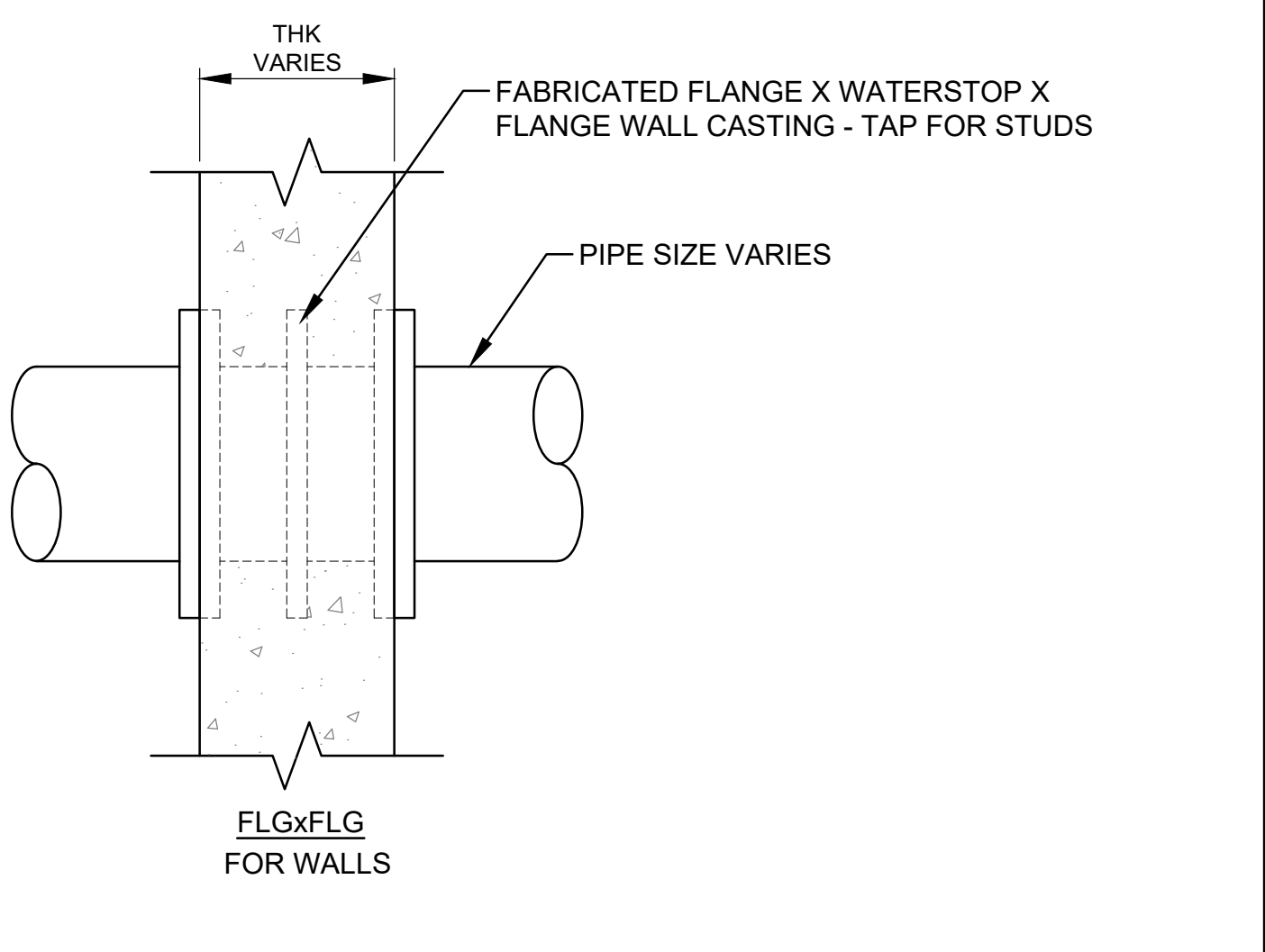
F **DETAIL - TYPE 'F' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



G **DETAIL - TYPE 'G' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



H **DETAIL - TYPE 'H' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE



I **DETAIL - TYPE 'I' PIPE PENETRATION**
D-901 SCALE: NOT TO SCALE

PIPE PENETRATION NOTES:

- WHERE PIPES PASS THROUGH WALLS, FLOORS OR CEILINGS, PENETRATIONS SHALL CONFORM TO TABLE, EXCEPT AS OTHERWISE SPECIFIED.
- IN TABLE, "TANK" SHALL MEAN ANY PART OF A STRUCTURE CONTAINING LIQUID OR IN CONTACT WITH THE EARTH.
- IN TABLE, "PASSAGE" SHALL MEAN ROOM, GALLERY, TUNNEL OR SIMILAR ENCLOSURE.
- IN CONDITION 5, TYPE B OR C SHALL BE USED WHERE ONE SIDE CONTAINS EXPLOSION PROOF EQUIPMENT, WHERE FLOODING IS POSSIBLE OR WHERE SPECIFIED.
- SEAL FLANGES SHALL BE DRILLED TO 150 POUND STANDARD. EACH JOINT SHALL BE GASKETED.
- PROVIDE CURB WHERE PENETRATING FLOOR EXCEPT FOR PENETRATION TYPE A. CURB SHALL BE 4" HIGH AND 3" WIDE.
- PROVIDE A MINIMUM OF 3" CLEARANCE BETWEEN REINFORCING STEEL AND FERROUS METAL PENETRATIONS.
- FLEXIBLE JOINTS SHALL BE PROVIDED FOR UNDERGROUND PIPING AS SPECIFIED.
- RESTRAINED FLEXIBLE COUPLINGS FOR STEEL PIPE SHALL BE DESIGNED FOR 100 PSI LINE PRESSURE IN ACCORDANCE WITH AWWA MANUAL M11. FIGURES 19.15 AND 19.16 AND TABLE 19.17 SHALL BE UTILIZED.
- INSULATION SHALL NOT EXTEND THROUGH SLEEVES UNLESS OTHERWISE SPECIFIED.
- WEEP RINGS SHALL HAVE A MINIMUM DIAMETER EQUAL TO THE PIPE DIAMETER PLUS 3 INCHES.
- "TANK SIDE OF WALL" SHALL MEAN SIDE OF WALL NORMALLY EXPOSED TO LIQUID, EARTH OR OUTSIDE ATMOSPHERE.

PIPE PENETRATION TYPES					
	DESCRIPTION		TYPE		
	FROM	TO	STEEL OR SST PIPE	DUCTILE IRON PIPE	PLASTIC PIPE
1	TANK	TANK BELOW W.S.	C or I	C, E or I	C
2	TANK	TANK ABOVE W.S.	B	B-I	B-I
3	PASSAGE	TANK BELOW W.S.	C or I	C or I	C
4	PASSAGE	TANK ABOVE W.S.	A, B or C	A, B or C	A, B or C
5	PASSAGE	PASSAGE	A, Note 4	A, Note 4	A, Note 4
6	PASSAGE	OUTSIDE WALL	B or C	B or C	B or C
7	PASSAGE	ROOF	AS SHOWN		

Use this Table unless noted otherwise in Drawings

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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

Project No. 906
GMC Project #CSAV190007

ENGINEER | JCV
DESIGNER | MEF
DRAWN BY | GS/AJ

PIPE PENETRATIONS
DETAIL

D-901

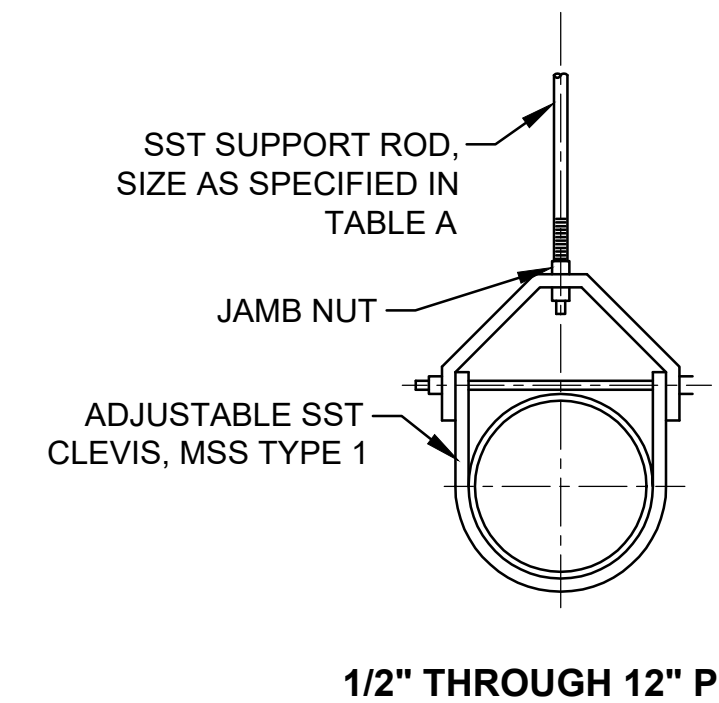
TABLE A								
NOMINAL PIPE SIZE (INCHES)	SUPPORT ROD SIZE AND MAXIMUM LOAD PER ROD SEE NOTES 2 AND 3				MAXIMUM PIPE SPAN (FEET) SEE NOTE 4			
	ONE ROD SUPPORT SYSTEM		TWO ROD SUPPORT SYSTEM		STEEL SEE NOTE 3	COPPER	PLASTIC SEE NOTE 5	CAST IRON SEE NOTE 6
	ROD SIZE (INCHES)	MAX LOAD (POUNDS)	ROD SIZE (INCHES)	MAX LOAD (POUNDS)				
3/8 TO 3/4	3/8	610	3/8	610	5	5	CONTINUOUS	---
1	3/8	610	3/8	610	5	5	5	---
1 1/4	3/8	610	3/8	610	5	5	5	---
1 1/2	3/8	610	3/8	610	5	5	5	---
2	3/8	610	3/8	610	10	5	5	---
2 1/2	3/8	610	3/8	610	10	10	5	---
3	3/8	610	3/8	610	10	20	5	---
4	1/2	1130	3/8	610	10	20	10	---
6	5/8	1810	1/2	1130	15	20	20	12 FEET FOR DUCTILE IRON
8	3/4	2710	1/2 (5/8)	1130 (1810)	15	20	20	10 FEET FOR CAST IRON
10	3/4 (1)	2710 (4960)	5/8 (3/4)	1810 (2710)	20	---	20	---
12	7/8 (1 1/4)	3770 (8000)	3/4 (7/8)	2710 (3370)	20	---	20	---
14	1	4960			20	---	---	---
16	1	4960			20	---	---	---
18	1	4960			20	---	---	---
20	1 1/4	8000			20	---	---	---
24	1 1/4	8000			20	---	---	---
30	1 1/2	12,000	1 1/2	24,000	20	---	---	---

TABLE A NOTES:

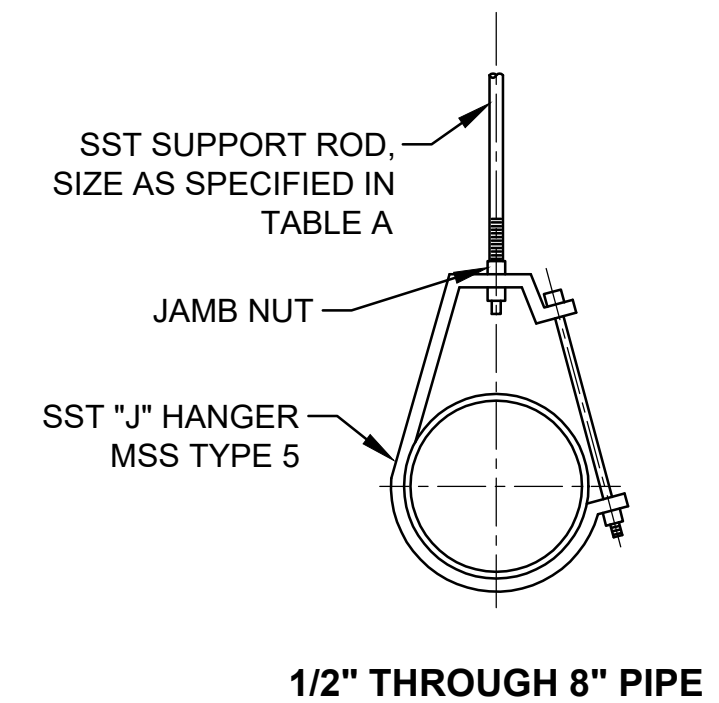
- DESIGN WEIGHT SHALL BE TWICE THE WEIGHT OF THE PIPE FULL OF WATER PLUS THE WEIGHT OF VALVES, FITTINGS, INSULATING MATERIALS, AND SUSPENDED HANGER COMPONENTS ON THE RUN OF PIPE BEING SUPPORTED.
- ROD SIZES SHOWN ARE FOR THE SUPPORT OF A SINGLE PIPE. WHEN SUPPORTING MORE THAN ONE PIPE, ROD SHALL BE SIZED USING THE DESIGN WEIGHTS (SEE NOTE 1) TO DETERMINE THE TOTAL DESIGN LOAD. THE TOTAL DESIGN LOAD SHALL NOT EXCEED THE MAXIMUM LOADS IN THE TABLE ABOVE.
- ROD SIZES AND MAXIMUM LOADS IN PARENTHESIS ARE FOR 8", 10" OR 12" STEEL PIPE ONLY, AT SPANS SHOWN.
- PIPE SHALL NOT HAVE POCKETS FORMED IN THE SPAN DUE TO SAGGING OF THE PIPE BETWEEN SUPPORTS CAUSED BY THE WEIGHT OF THE PIPE, MEDIUM IN THE PIPE, INSULATION, VALVES AND FITTINGS.
- SPAN SHOWN IS FOR SCHEDULE 80 PVC PIPE AT 100 DEGREES F. SPANS FOR OTHER PLASTICS, OTHER PVC PIPE SCHEDULES, AND PIPES AT HIGHER TEMPERATURES, SHALL BE SHORTENED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. CONTINUOUS MEANS PIPE SHALL BE IN UNISTRUT OR SIMILAR CHANNEL.
- PROVIDE A MINIMUM OF ONE PIPE HANGER PER PIPE LENGTH, WITHIN 4 INCHES OF THE BELL.
- PIPE HANGER AND SUPPORT SELECTION SHALL BE IN ACCORDANCE WITH TABLE B.

TABLE B							
X INDICATES PIPE HANGERS SUITABLE FOR CONDITIONS LISTED BELOW:	PIPE HANGER TYPE						
	1	2	3	4	5	6	7
SERVICE TEMPERATURE							
33° F - 59° F			X	X	X		
120° F - 450° F	X	X	X	X	X	X	X
60° F - 119° F	X	X	X			X	X
INSULATED OR UNINSULATED							
PIPING MATERIALS							
STEEL	X	X	X	X	X	X	X
COPPER		X		X		X	X
PLASTIC	X	X		X	X	X	X
CAST IRON	X	X		X	X	X	X

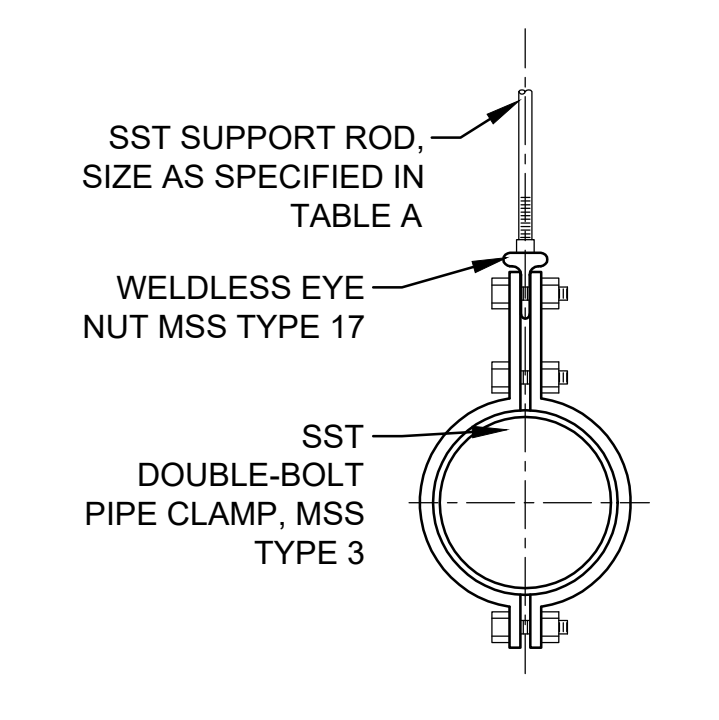
NOTE: FOR SERVICES OTHER THAN THOSE SHOWN IN TABLE "B", PIPE ATTACHMENTS SHALL BE THOSE SPECIFIED IN THE PIPE SPECS.



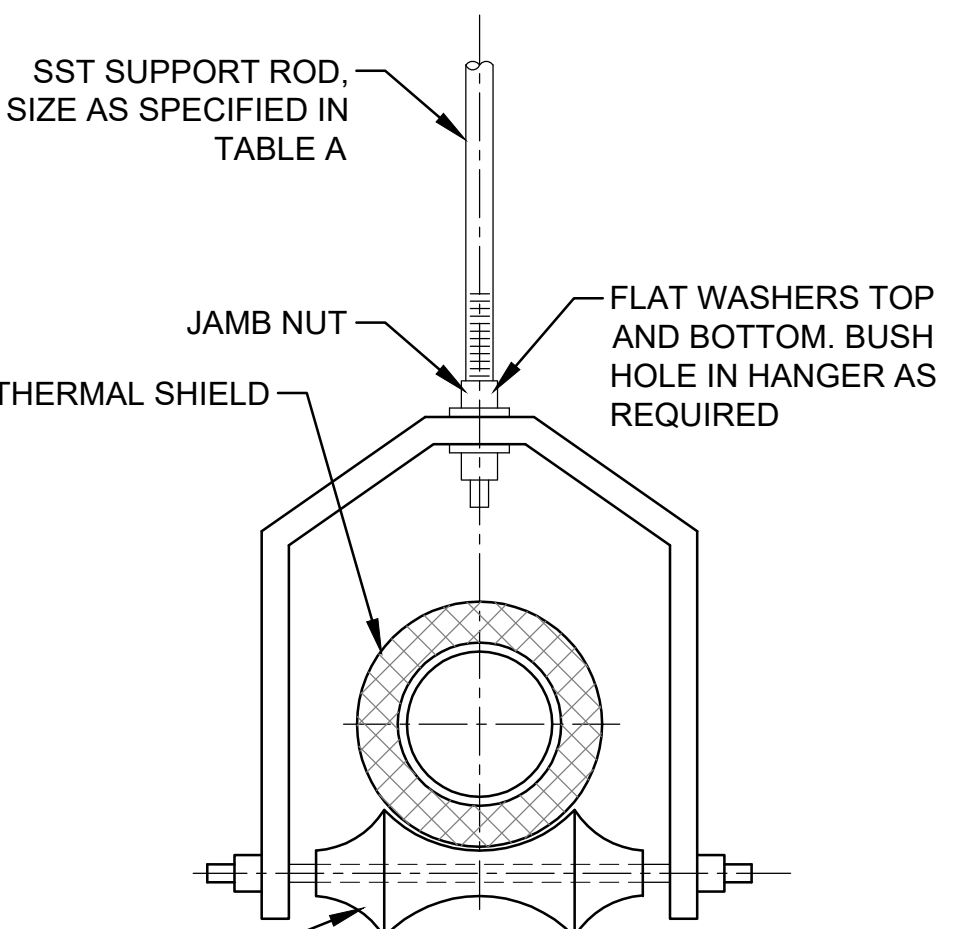
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D-902 SCALE: NOT TO SCALE



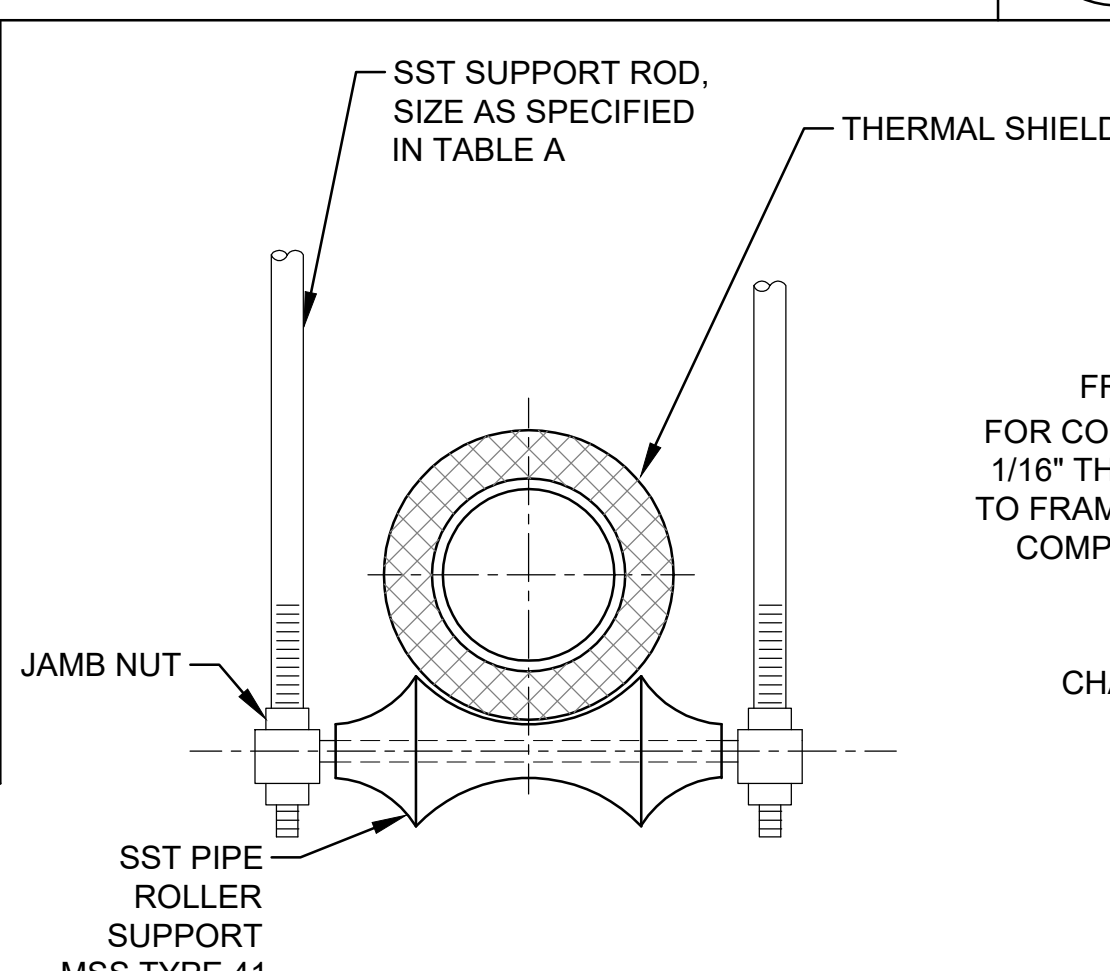
2 **DETAIL - TYPE 2 PIPE HANGER**
D-902 SCALE: NOT TO SCALE



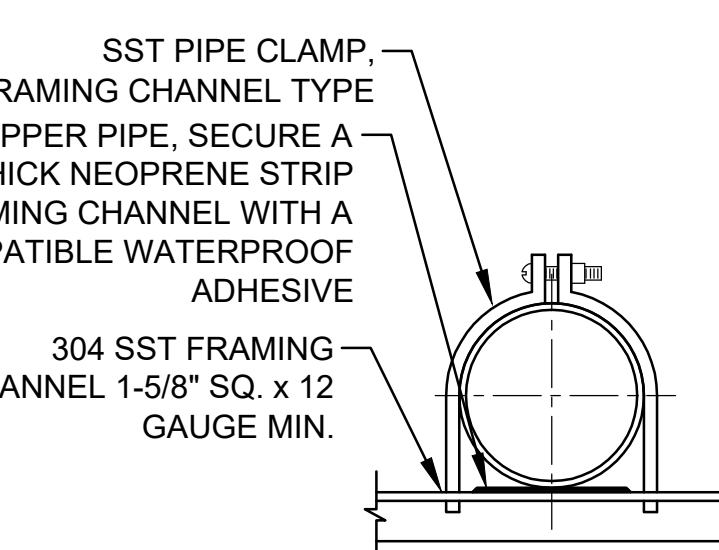
3 **DETAIL - TYPE 3 PIPE HANGER**
D-902 SCALE: NOT TO SCALE



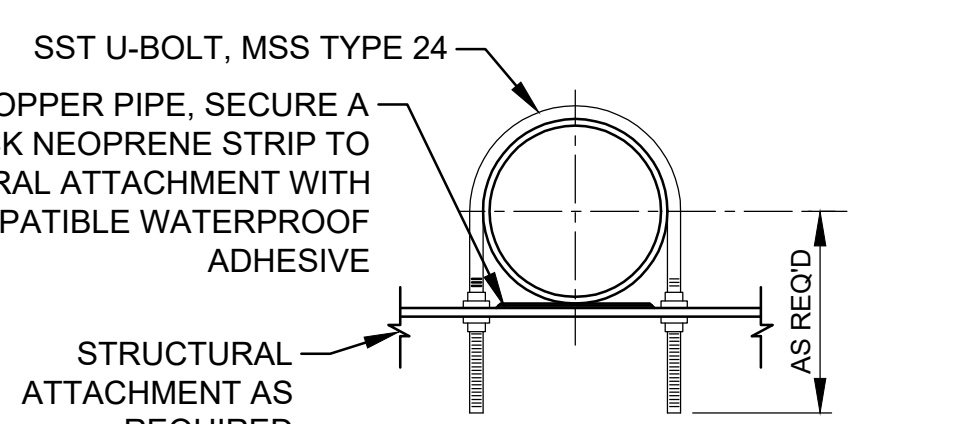
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D-902 SCALE: NOT TO SCALE



5 **DETAIL - TYPE 5 PIPE HANGER**
D-902 SCALE: NOT TO SCALE



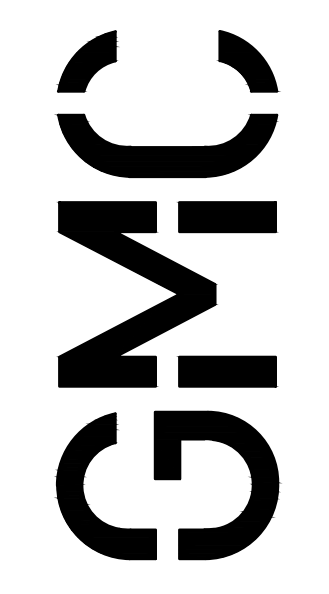
6 **DETAIL - TYPE 6 PIPE HANGER**
D-902 SCALE: NOT TO SCALE



7 **DETAIL - TYPE 7 PIPE HANGER**
D-902 SCALE: NOT TO SCALE

GENERAL NOTES:

- WHERE NO REFERENCE TO PIPE SUPPORT SYSTEMS ARE GIVEN ON THE DRAWINGS, THE CONTRACTOR SHALL USE AN APPROPRIATE SYSTEM. SEE TABLE "B". PIPE AND CONDUIT SUPPORT SYSTEMS SHALL BE UNISTRUT, ELCEN, OR EQUAL, AND SHALL BE DESIGNED BY THE CONTRACTOR TO MEET THE MINIMUM LOAD AND SPAN REQUIREMENTS AS SPECIFIED.
- MATERIALS FOR HANGERS, SUPPORTS AND ASSOCIATED HARDWARE SHALL BE 304 OR 316 SST.
- UNLESS OTHERWISE SPECIFIED, EXPANSION ANCHORS SHALL NOT BE USED.
- MSS REFERS TO THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, STANDARD PRACTICE SP58 AND SP69.
- HANGER BRACKETS AND SUPPORT COMPONENTS MAY BE INTERCHANGED.
- CONCRETE INSERTS IN AREA BELOW WATER SURFACE OR NORMALLY SUBJECT TO SUBMERGING SHALL BE EMBEDDED ANCHOR BOLTS OR EQUAL.
- PROVIDE PLASTIC OR RUBBER CHANNEL END CAPS AT EXPOSED ENDS OF CHANNELS 7'-0" ABOVE FLOOR AND BELOW.
- MAXIMUM DESIGN WEIGHTS AND LOADS SHALL BE AS SHOWN IN TABLE "A" OR AS SHOWN IN THE DETAILS ON THIS DRAWING.
- WHEN SUPPORT PIPING REQUIRES HORIZONTAL FLEXIBILITY NORMAL TO A STEEL BEAM AXIS, USE STRUCTURAL ATTACHMENTS C AND D AS SHOWN ON DRAWING D-504.
- ALL PIPING SUPPORTED BY HANGERS AND/OR STRUCTURAL ATTACHMENTS SHALL BE BRACED AGAINST HORIZONTAL, VERTICAL, AXIAL, AND LONGITUDINAL SWAY. BRACINGS SHALL BE CALCULATED TO RESIST SEISMIC LOADINGS AS SPECIFIED BY SMACNA AND AS INDICATED IN THE SPECIFICATIONS.
- FITTINGS SHALL NOT BE LESS THAN MSS CL B.
- UNLESS OTHERWISE SPECIFIED, TRAPEZE AND PIPE RACK COMPONENTS SHALL HAVE A MINIMUM THICKNESS OF 12 GAGE WITH A MAXIMUM DEFLECTION 1/240 OF THE SPAN. MINIMUM CHANNEL COMPONENT SIZE SHALL BE 1 5/8" SQUARE 316 SST AS MANUFACTURED BY SUPER STRUT, UNISTRUT, ELCEN, OR EQUAL.



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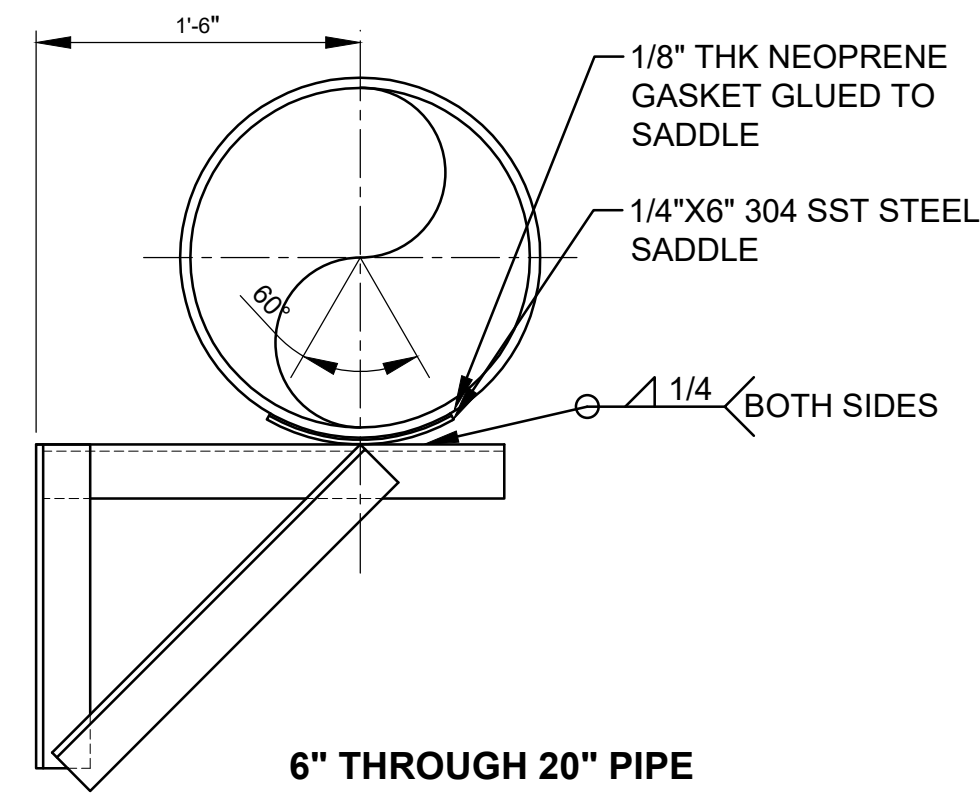
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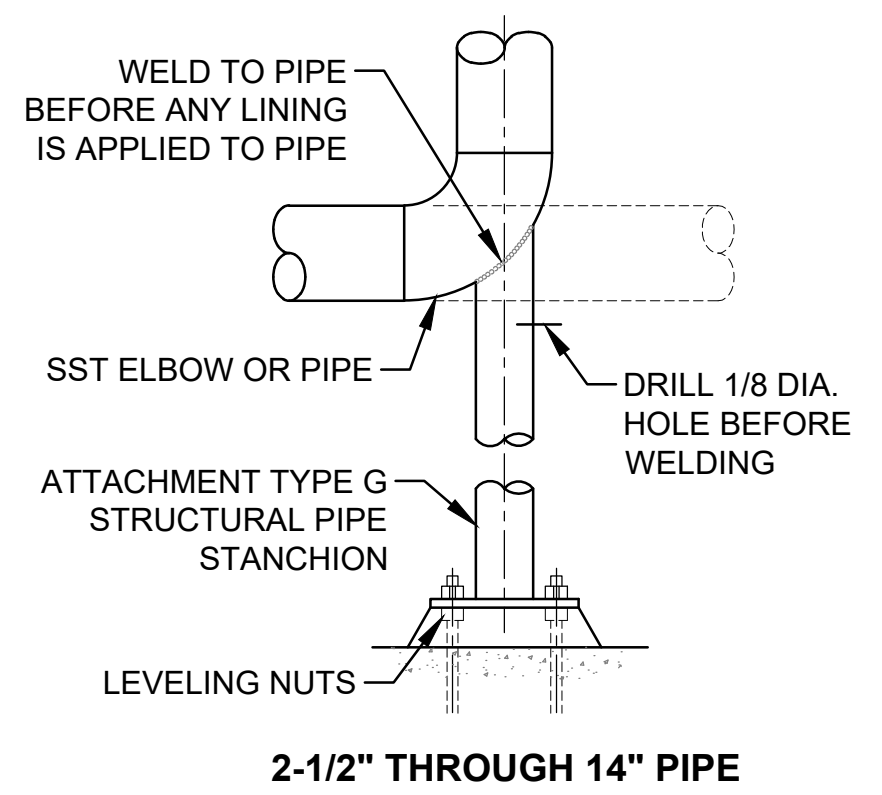


PROCESS PIPE SUPPORT DETAILS

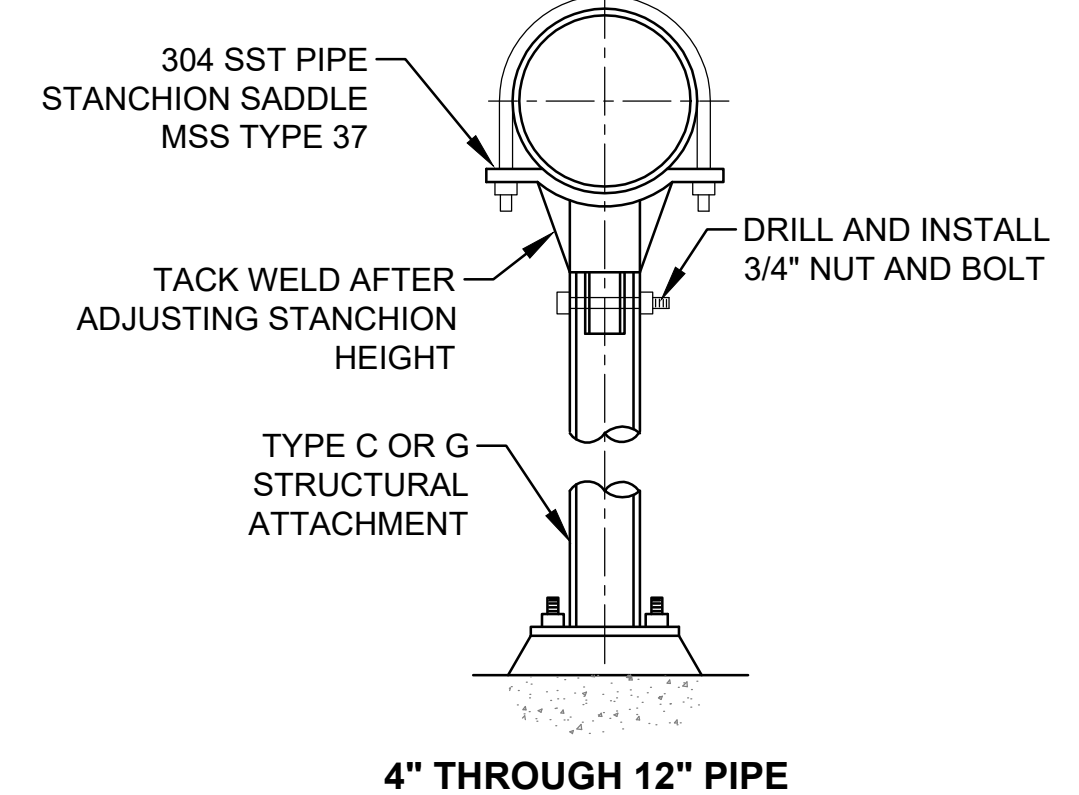
D-902



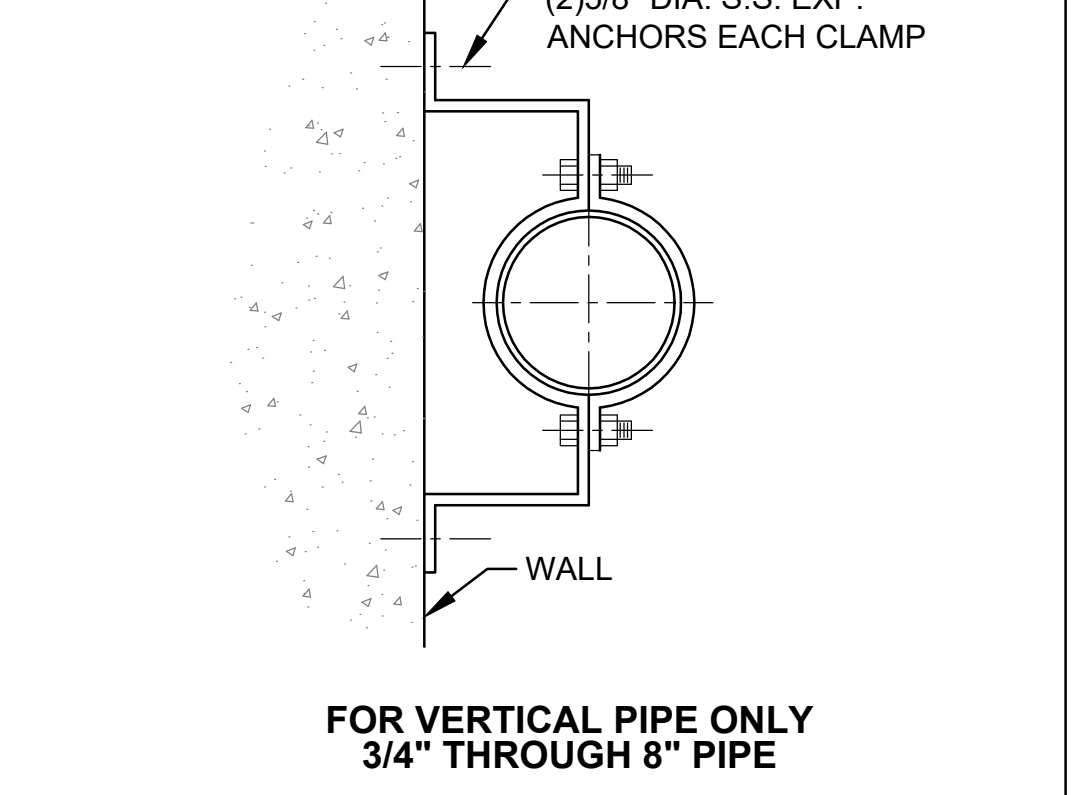
8 **DETAIL - TYPE 8 PIPE HANGER**
D-903 SCALE: NOT TO SCALE



9 **DETAIL - TYPE 9 PIPE HANGER**
D-903 SCALE: NOT TO SCALE

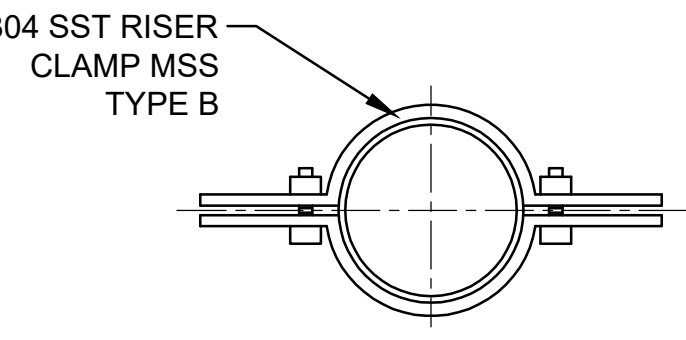


10 **DETAIL - TYPE 10 PIPE HANGER**
D-903 SCALE: NOT TO SCALE

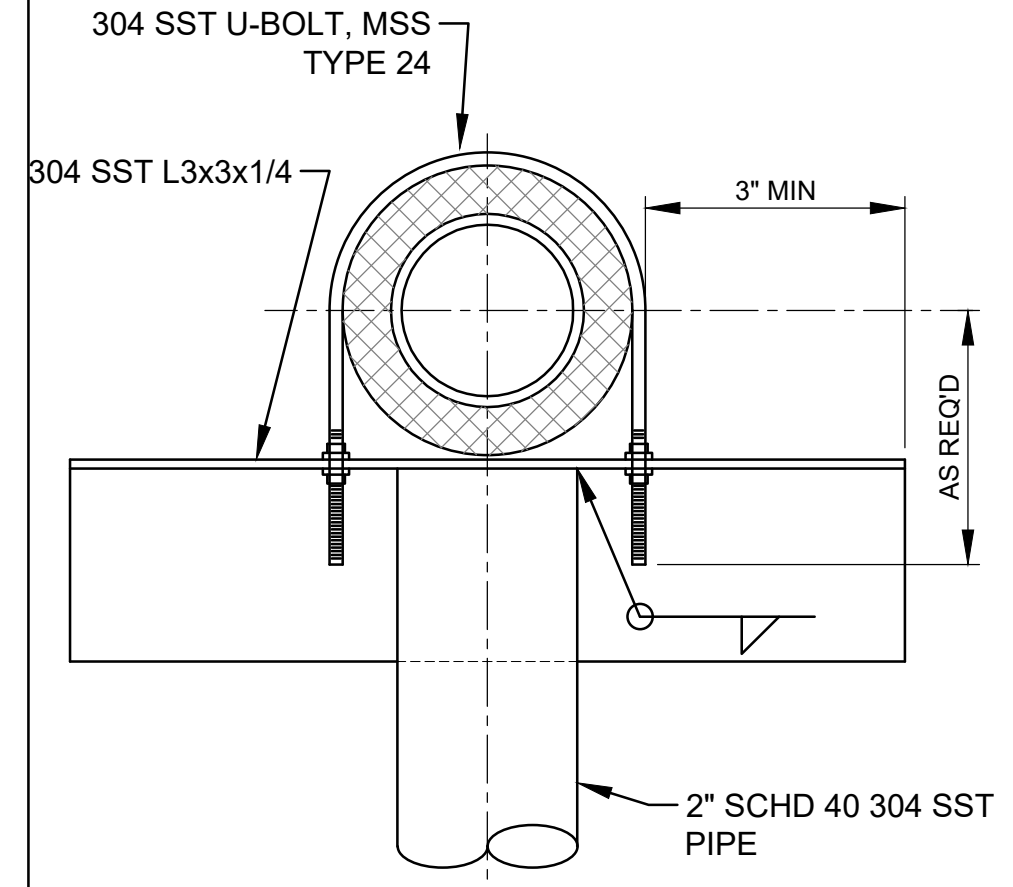


11 **DETAIL - TYPE 11 PIPE HANGER**
D-903 SCALE: NOT TO SCALE

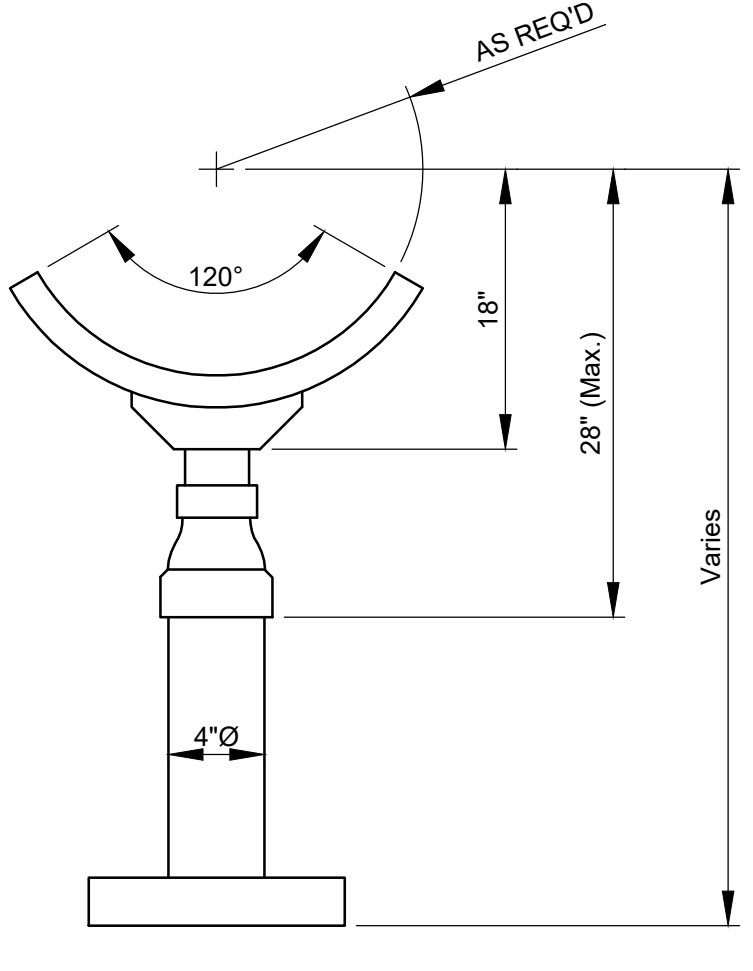
- GENERAL NOTES:**
- WHERE NO REFERENCE TO PIPE SUPPORT SYSTEMS ARE GIVEN ON THE DRAWINGS, THE CONTRACTOR SHALL USE AN APPROPRIATE SYSTEM. SEE TABLE "B". PIPE AND CONDUIT SUPPORT SYSTEMS SHALL BE UNISTRUT, ELCEN, OR EQUAL, AND SHALL BE DESIGNED BY THE CONTRACTOR TO MEET THE MINIMUM LOAD AND SPAN REQUIREMENTS AS SPECIFIED.
 - MATERIALS FOR HANGERS, SUPPORTS AND ASSOCIATED HARDWARE SHALL BE 316 SST.
 - UNLESS OTHERWISE SPECIFIED, EXPANSION ANCHORS SHALL NOT BE USED.
 - MSS REFERS TO THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, STANDARD PRACTICE SP58 AND SP69.
 - HANGER BRACKETS AND SUPPORT COMPONENTS MAY BE INTERCHANGED.
 - CONCRETE INSERTS IN AREA BELOW WATER SURFACE OR NORMALLY SUBJECT TO SUBMERGING SHALL BE EMBEDDED ANCHOR BOLTS OR EQUAL.
 - PROVIDE PLASTIC OR RUBBER CHANNEL END CAPS AT EXPOSED ENDS OF CHANNELS 7'-0" ABOVE FLOOR AND BELOW.
 - MAXIMUM DESIGN WEIGHTS AND LOADS SHALL BE AS SHOWN IN TABLE "A" OR AS SHOWN IN THE DETAILS ON THIS DRAWING.
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 - ALL PIPING SUPPORTED BY HANGERS AND/OR STRUCTURAL ATTACHMENTS SHALL BE BRACED AGAINST HORIZONTAL, VERTICAL, AXIAL, AND LONGITUDINAL SWAY. BRACINGS SHALL BE CALCULATED TO RESIST SEISMIC LOADINGS AS SPECIFIED BY SMACNA AND AS INDICATED IN THE SPECIFICATIONS.
 - FITTINGS SHALL NOT BE LESS THAN MSS CL B.
 - UNLESS OTHERWISE SPECIFIED, TRAPEZE AND PIPE RACK COMPONENTS SHALL HAVE A MINIMUM THICKNESS OF 12 GAGE WITH A MAXIMUM DEFLECTION 1/240 OF THE SPAN. MINIMUM CHANNEL COMPONENT SIZE SHALL BE 1 5/8" SQUARE 316 SST AS MANUFACTURED BY SUPER STRUT, UNISTRUT, ELCEN, OR EQUAL.



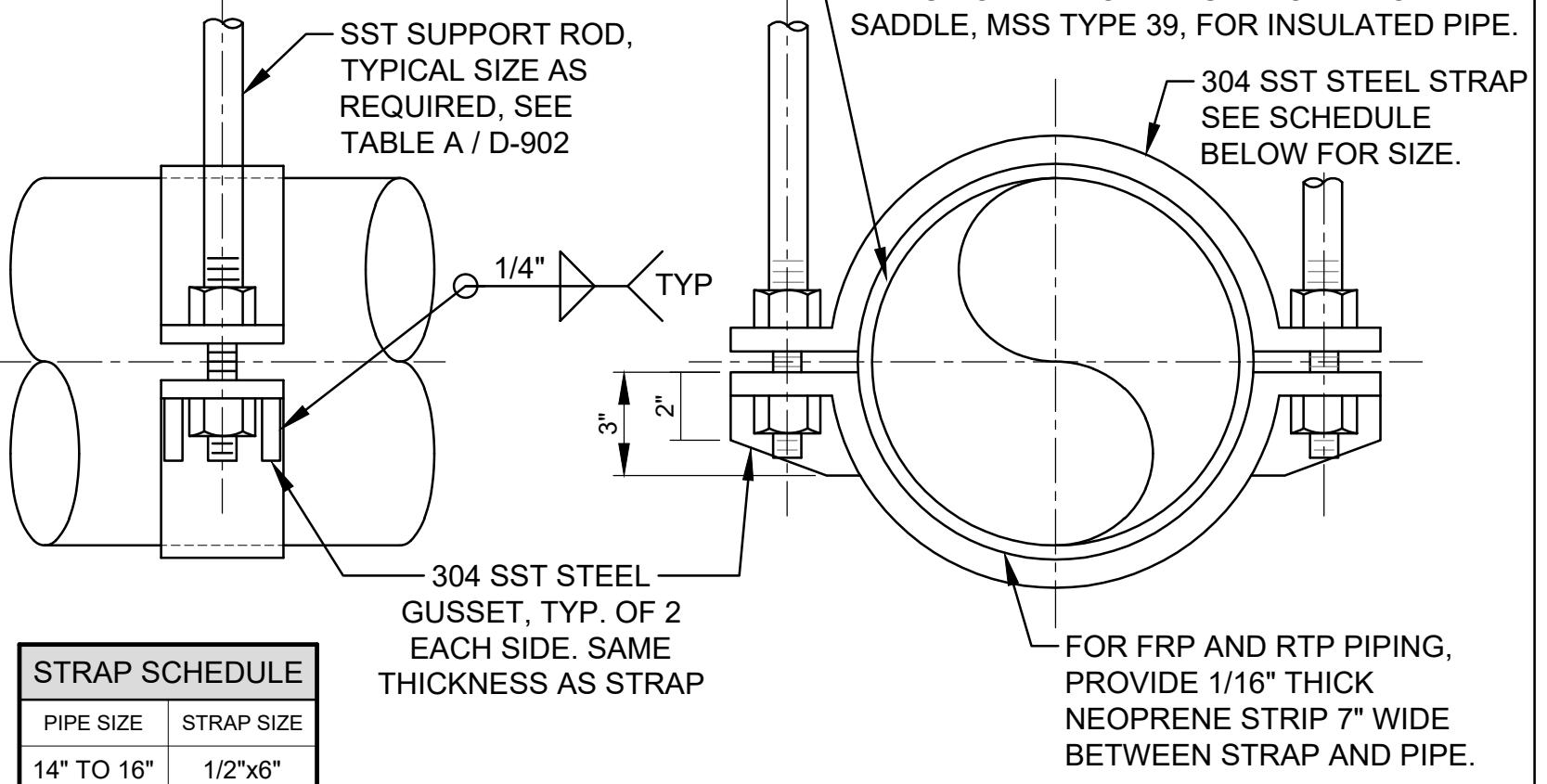
12 **DETAIL - TYPE 12 PIPE HANGER**
D-903 SCALE: NOT TO SCALE



13 **DETAIL - TYPE 13 PIPE HANGER**
D-903 SCALE: NOT TO SCALE



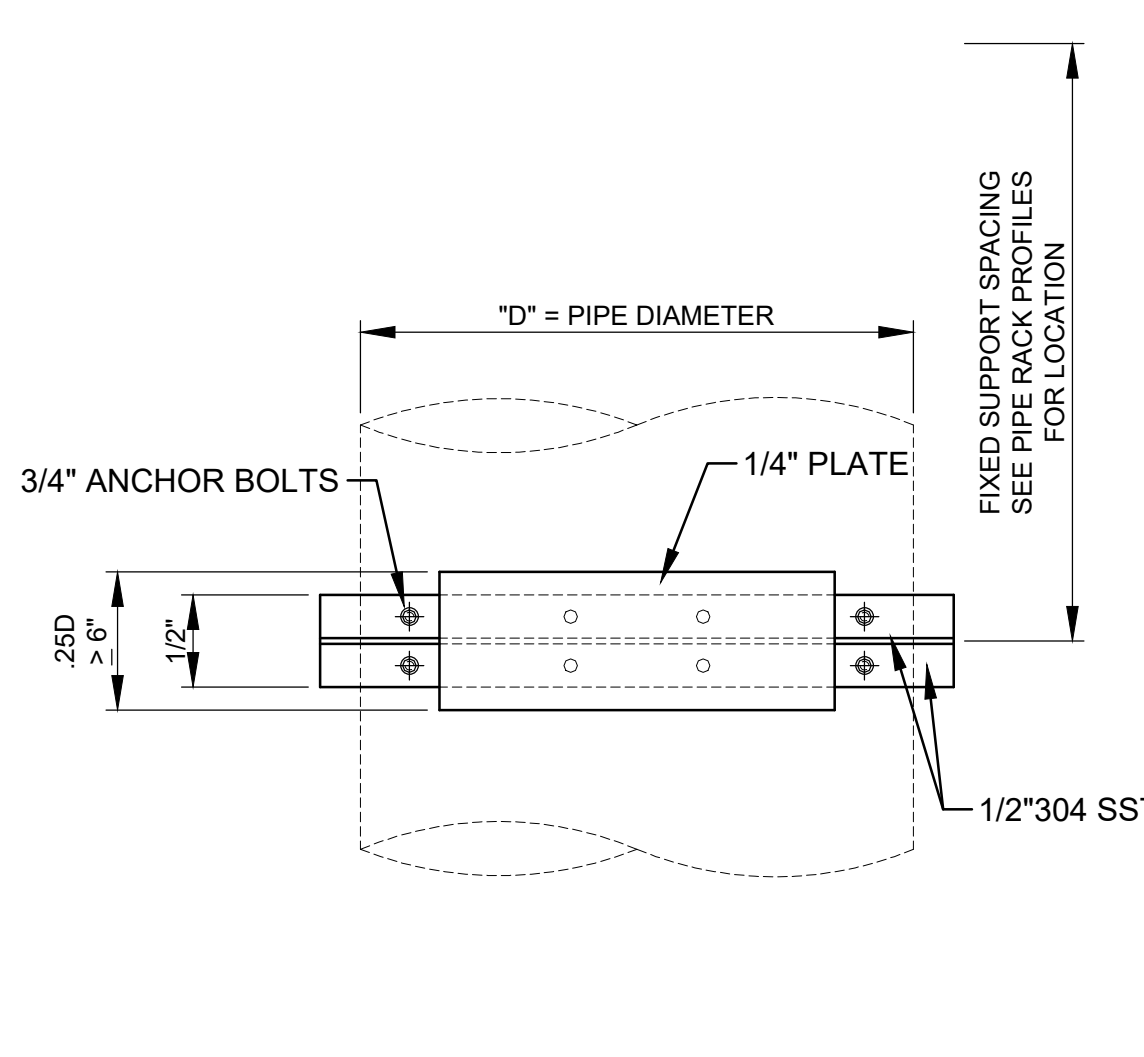
14 **DETAIL - TYPE 14 PIPE HANGER**
D-903 SCALE: NOT TO SCALE



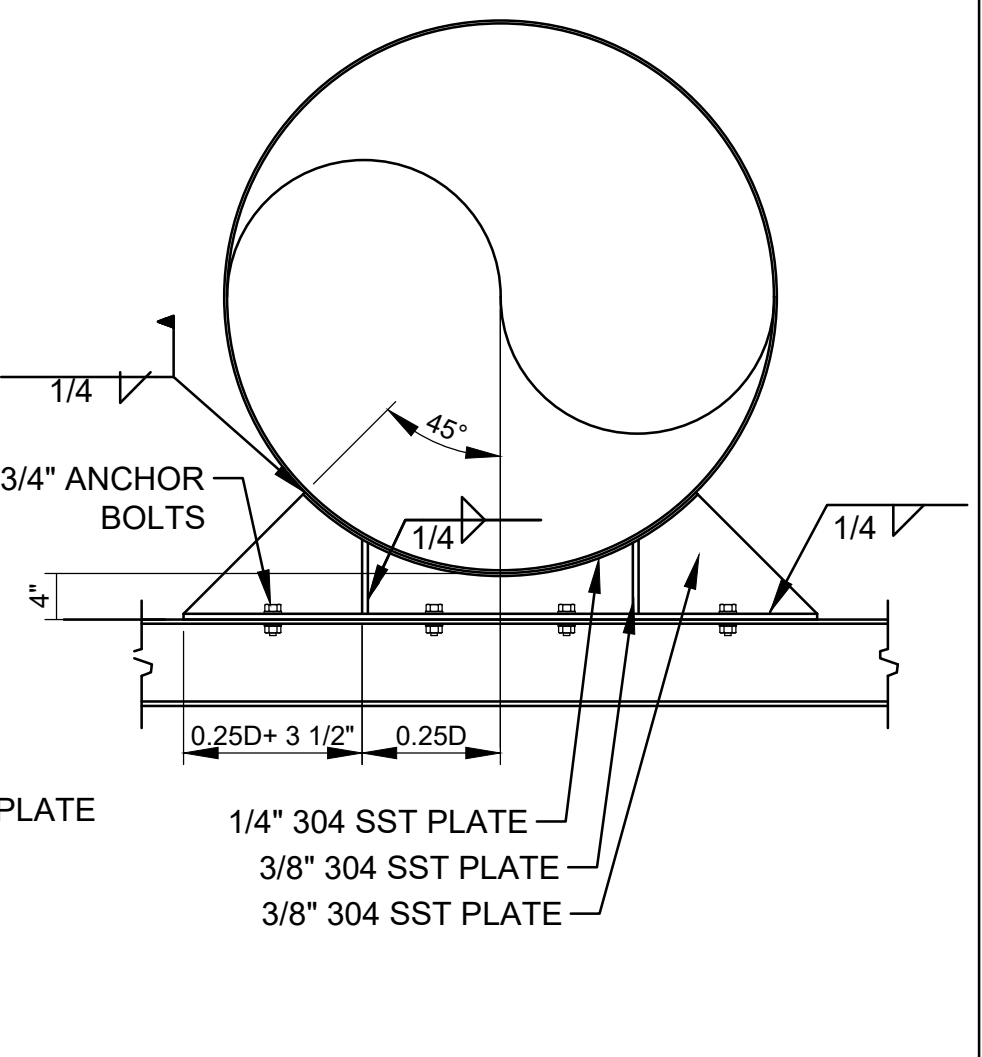
15 **DETAIL - TYPE 15 PIPE HANGER**
D-903 SCALE: NOT TO SCALE

PIPE SIZE	STRAP SIZE
14" TO 16"	1/2"x6"
18" TO 20"	5/8"x6"
24" TO 30"	3/4"x6"

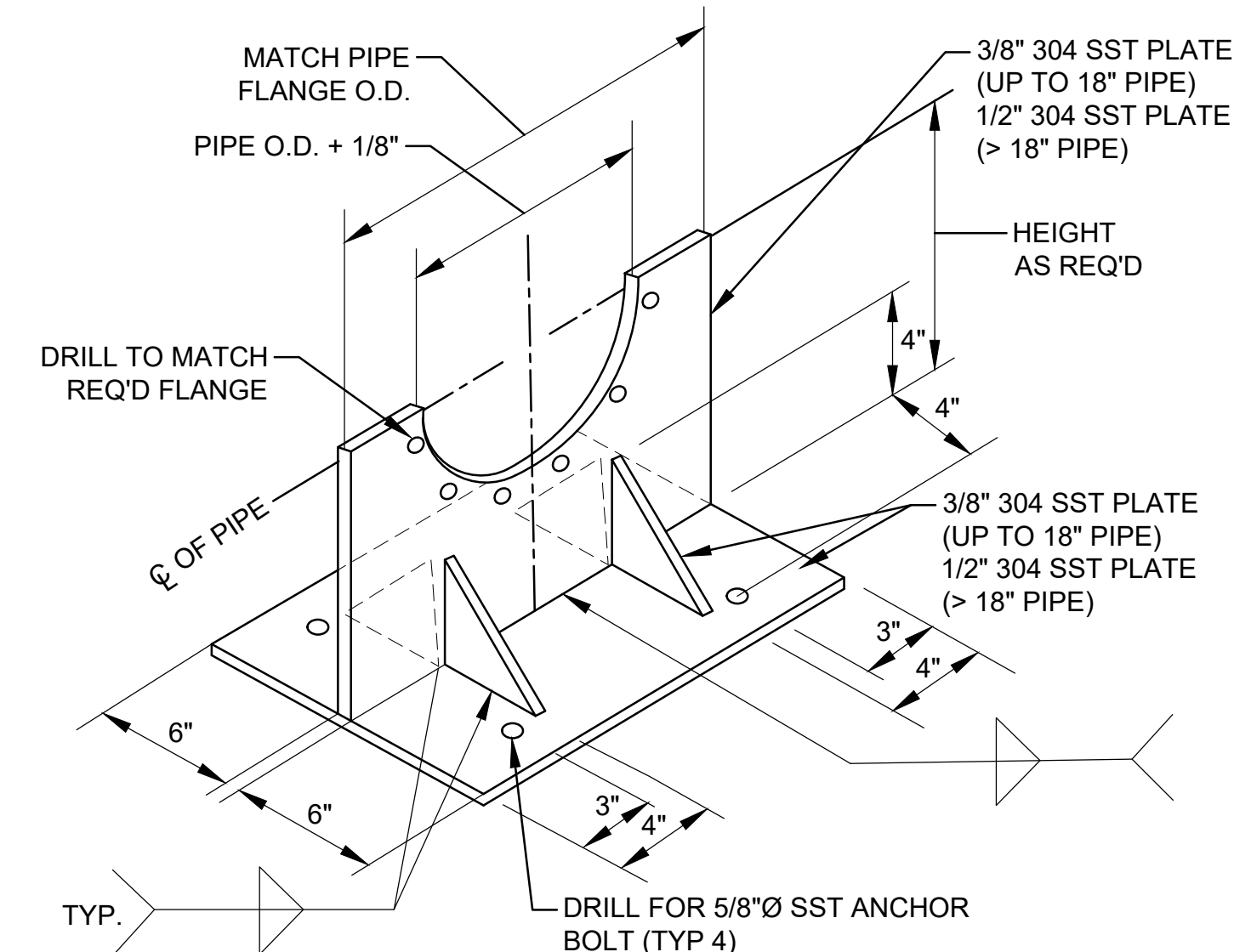
- SUPPORT NOTES:**
- SPACING SHALL BE AS SPECIFIED IN TABLE A / D-902.
 - TOTAL LOADS ON END CONNECTIONS SHALL NOT EXCEED 1/2 THE MAXIMUM ALLOWABLE LOAD AT MID-POINT.



16 **FIXED PIPE SUPPORT - 14"-48" Ø PIPE**
D-903 SCALE: NOT TO SCALE



17 **DETAIL - TYPE 17 PIPE HANGER**
D-903 SCALE: NOT TO SCALE



19 **DETAIL - TYPE 19 PIPE SUPPORT**
D-903 SCALE: NOT TO SCALE



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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

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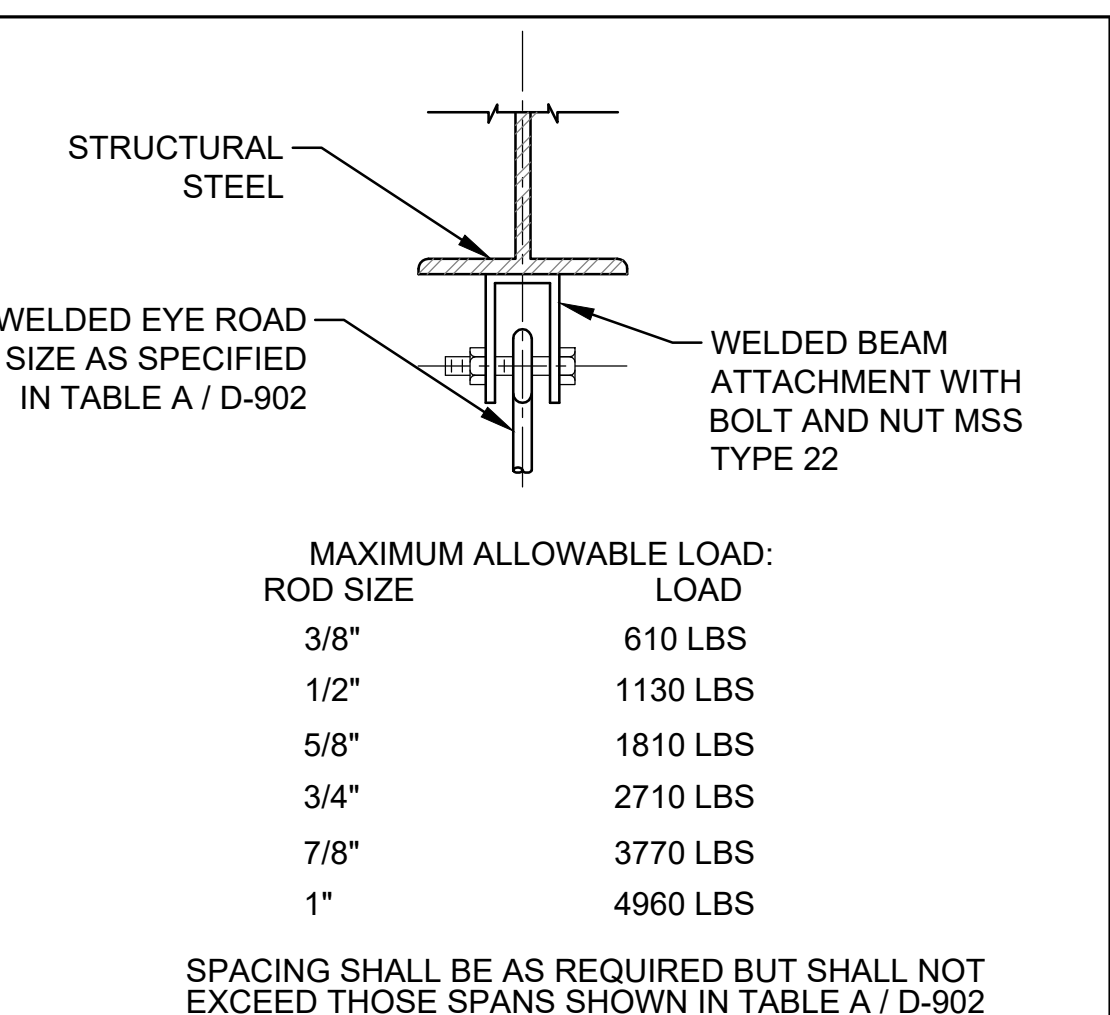
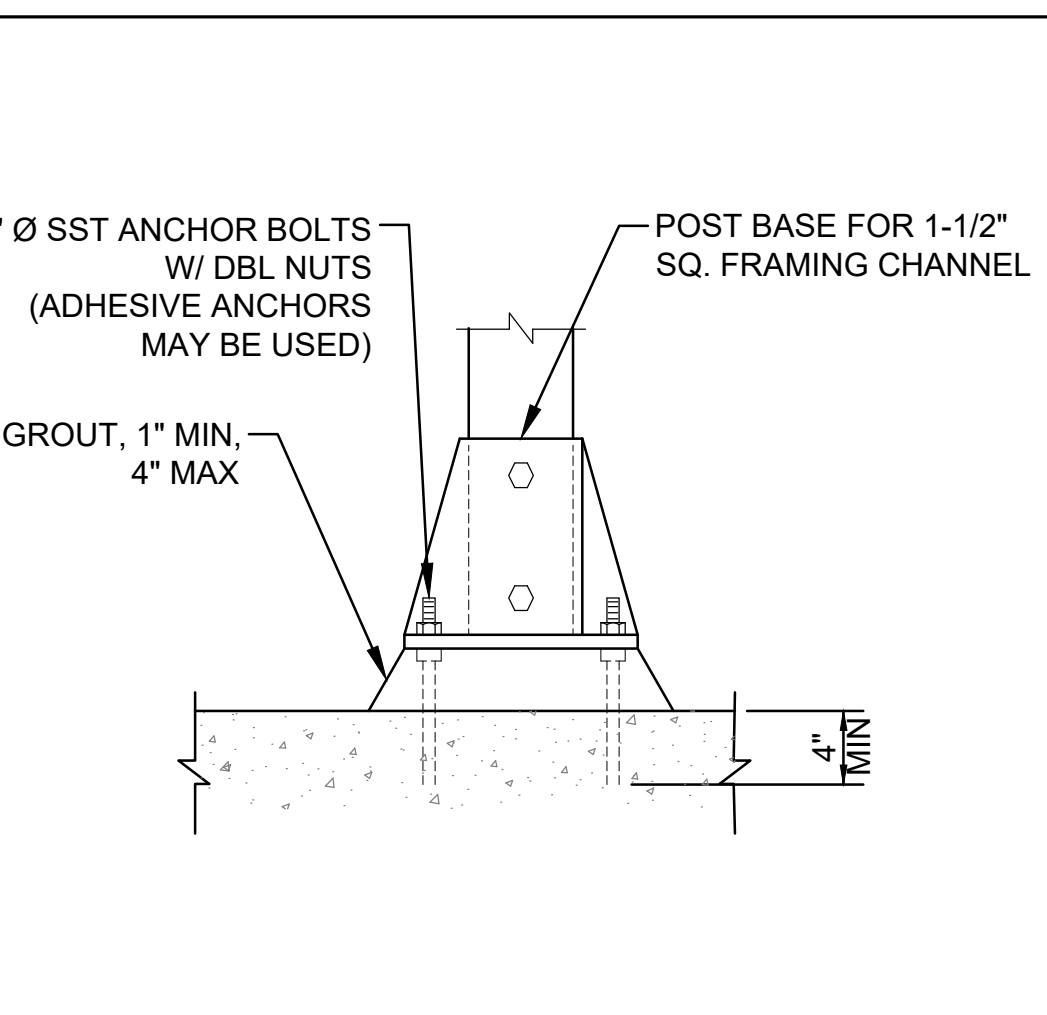
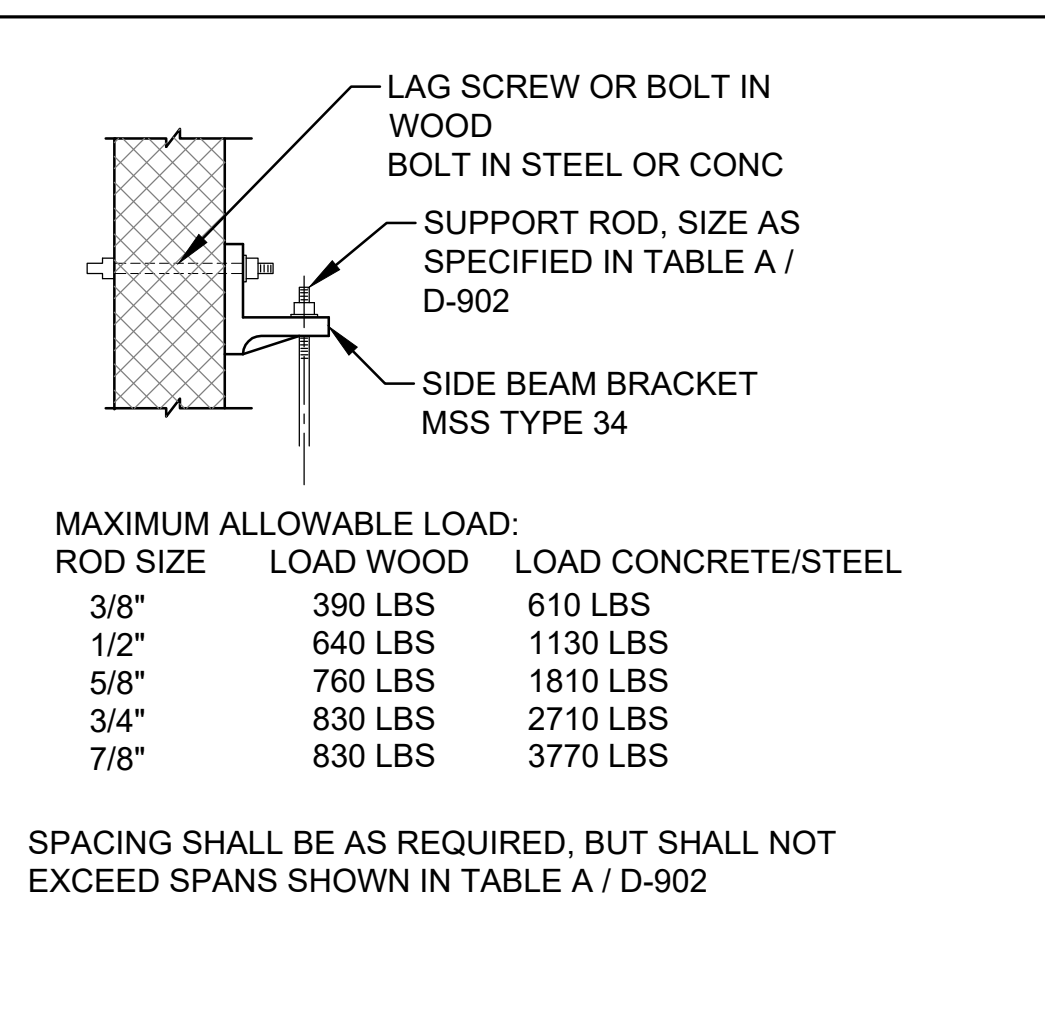
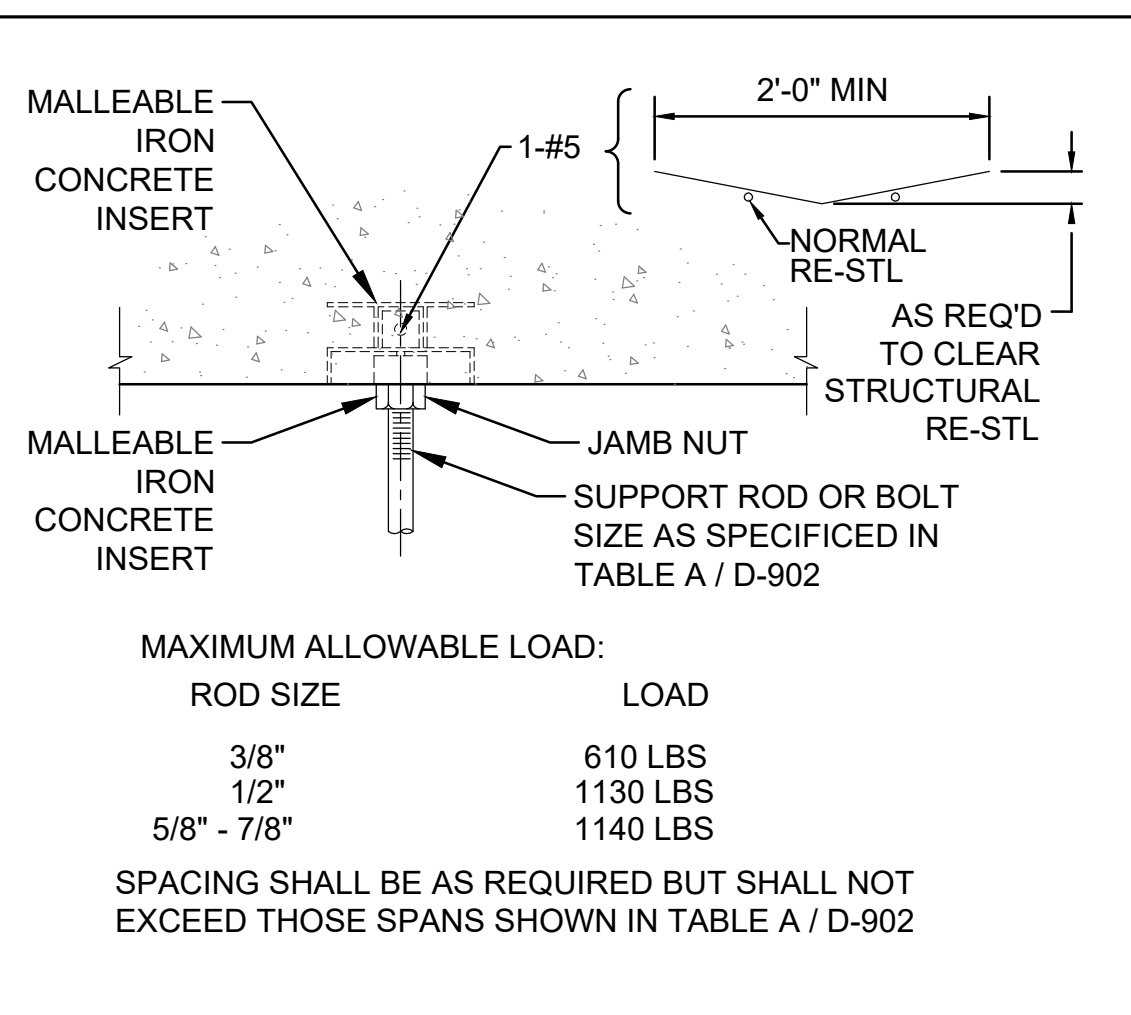
Project No. 906
GMC Project #CSAV190007



PROCESS PIPE
SUPPORT DETAILS

D-903

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GENERAL NOTES:

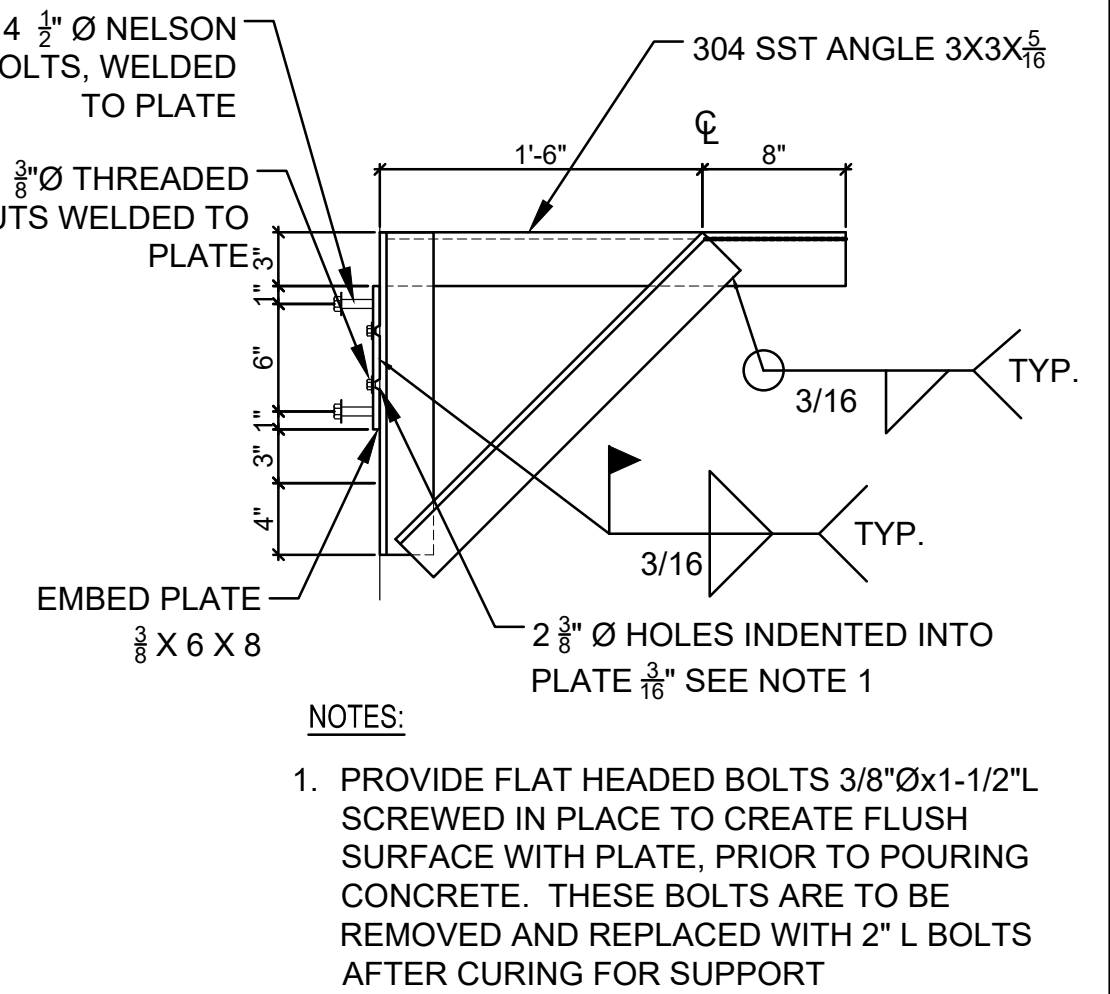
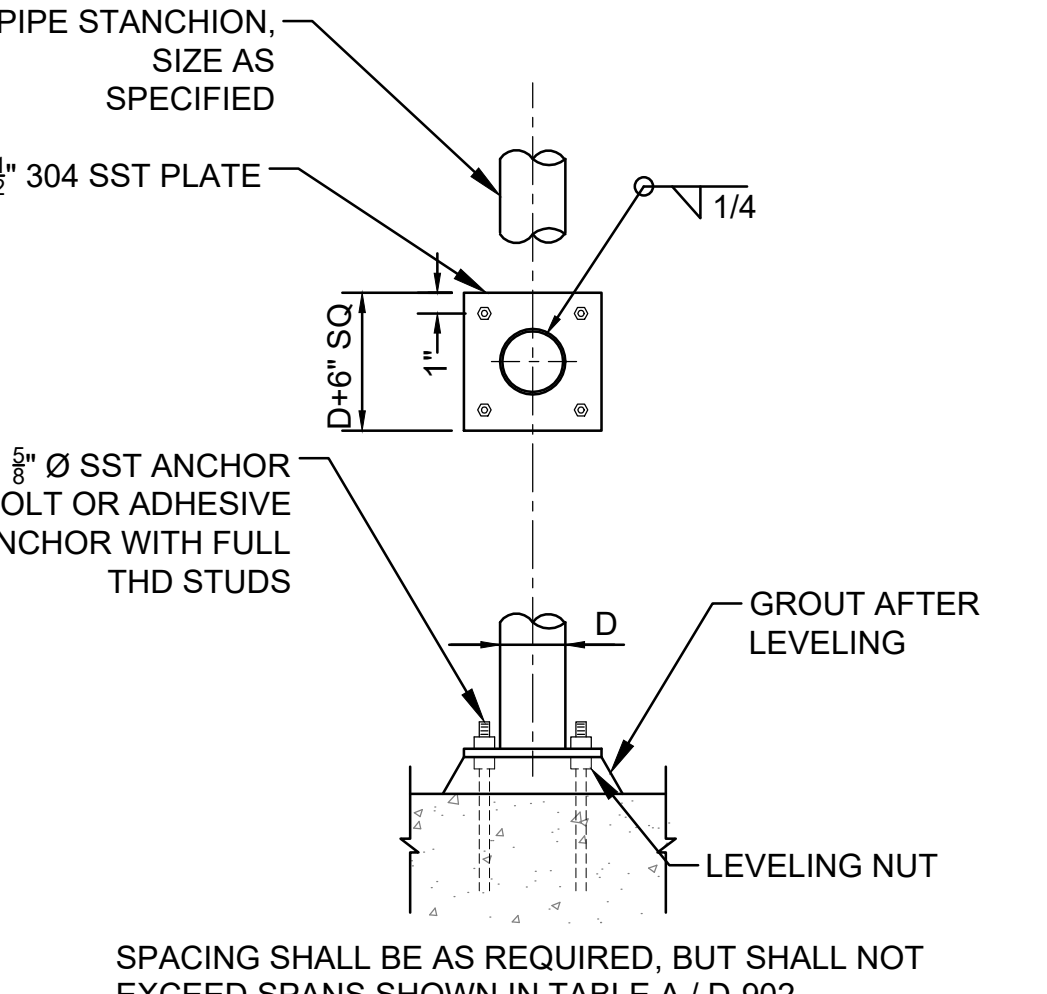
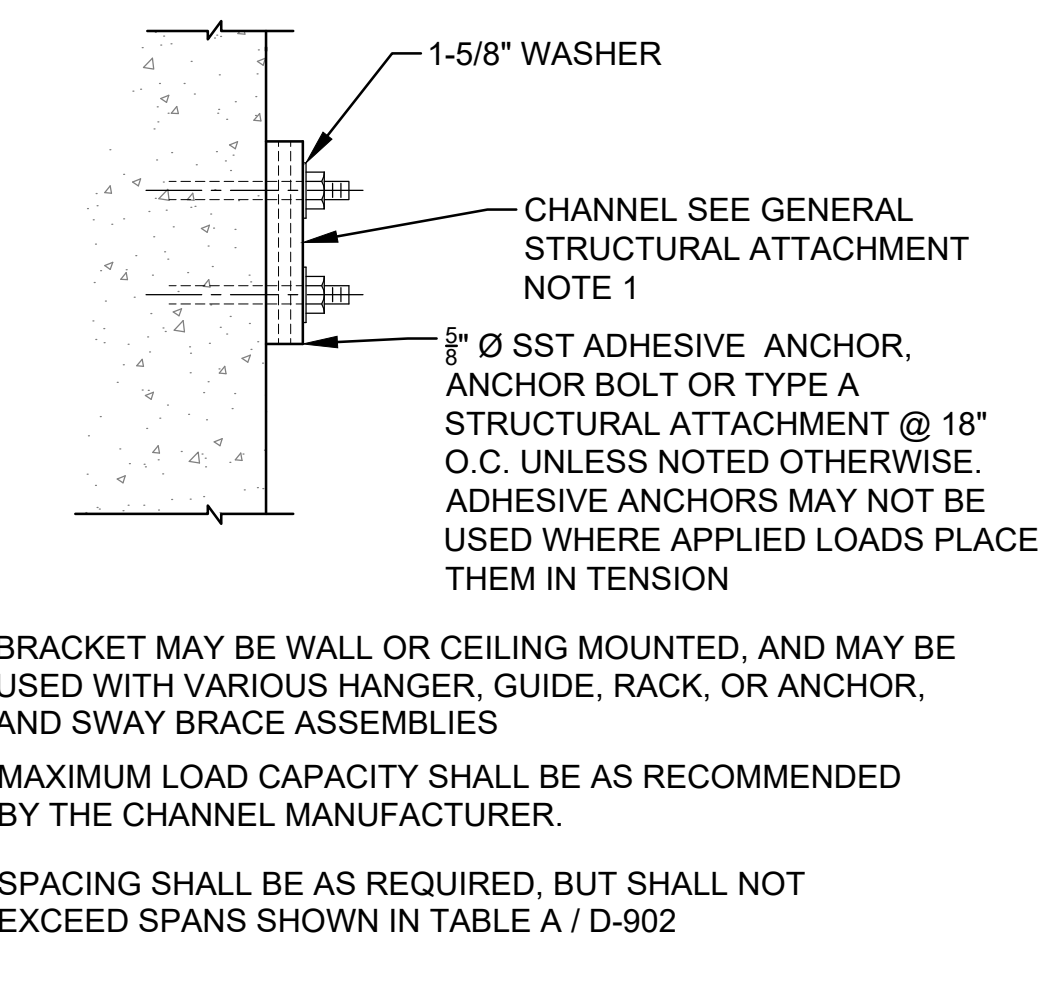
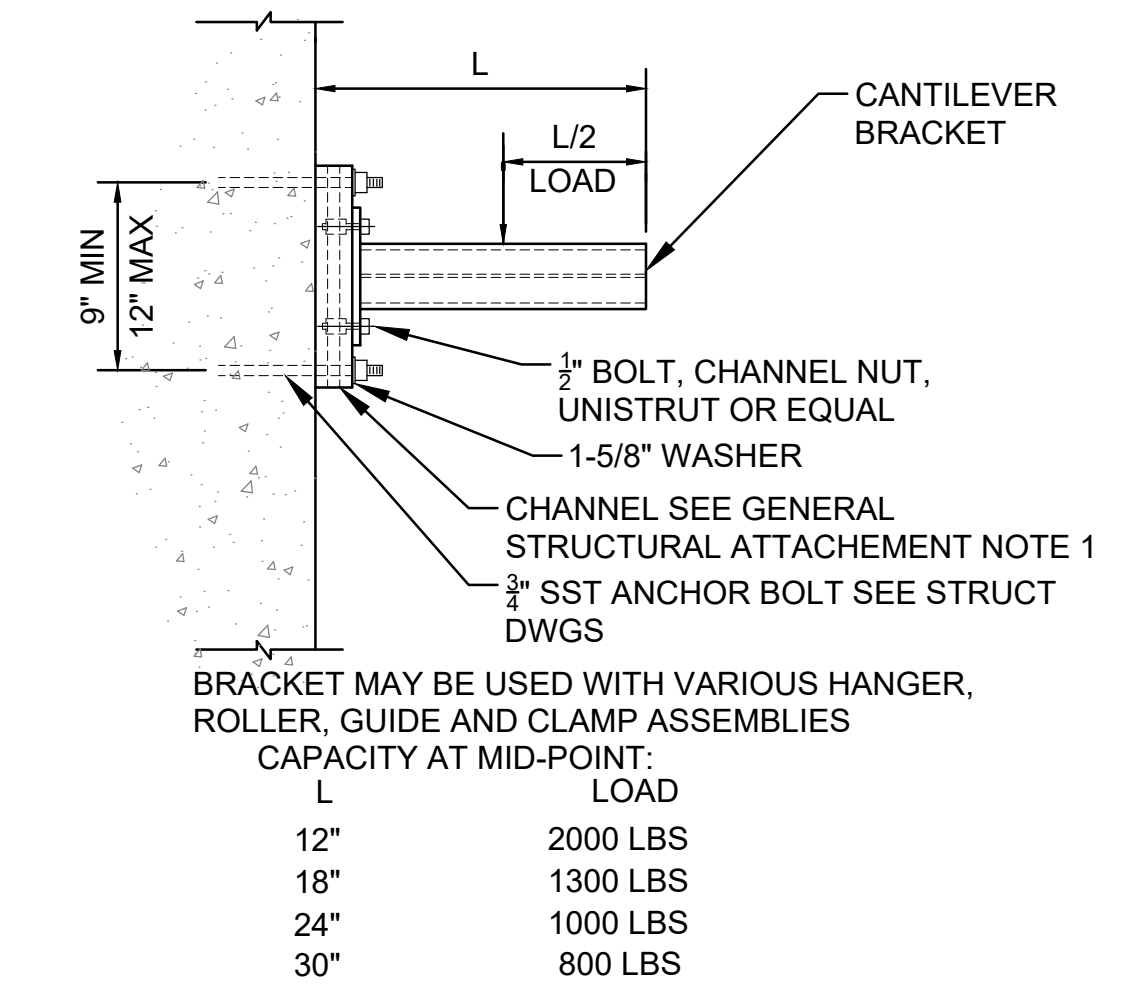
- FOR EXISTING CONCRETE, NEW PRECAST CONCRETE OR NEW CONCRETE MASONRY UNITS USE SURFACE MOUNT CHANNEL UNISTRUT P-1000 OR EQUAL. FOR ALL POURED-IN-PLACE CONCRETE, USED EMBEDDED CONCRETE INSERT CHANNELS, UNISTRUT P3200 OR EQUAL AND DELETE THE SURFACE MOUNT ANCHOR BOLTS.

A **DETAIL - TYPE A ATTACHMENT**
D-904 SCALE: NOT TO SCALE

B **DETAIL - TYPE B ATTACHMENT**
D-904 SCALE: NOT TO SCALE

C **DETAIL - TYPE C ATTACHMENT**
D-904 SCALE: NOT TO SCALE

D **DETAIL - TYPE D ATTACHMENT**
D-904 SCALE: NOT TO SCALE

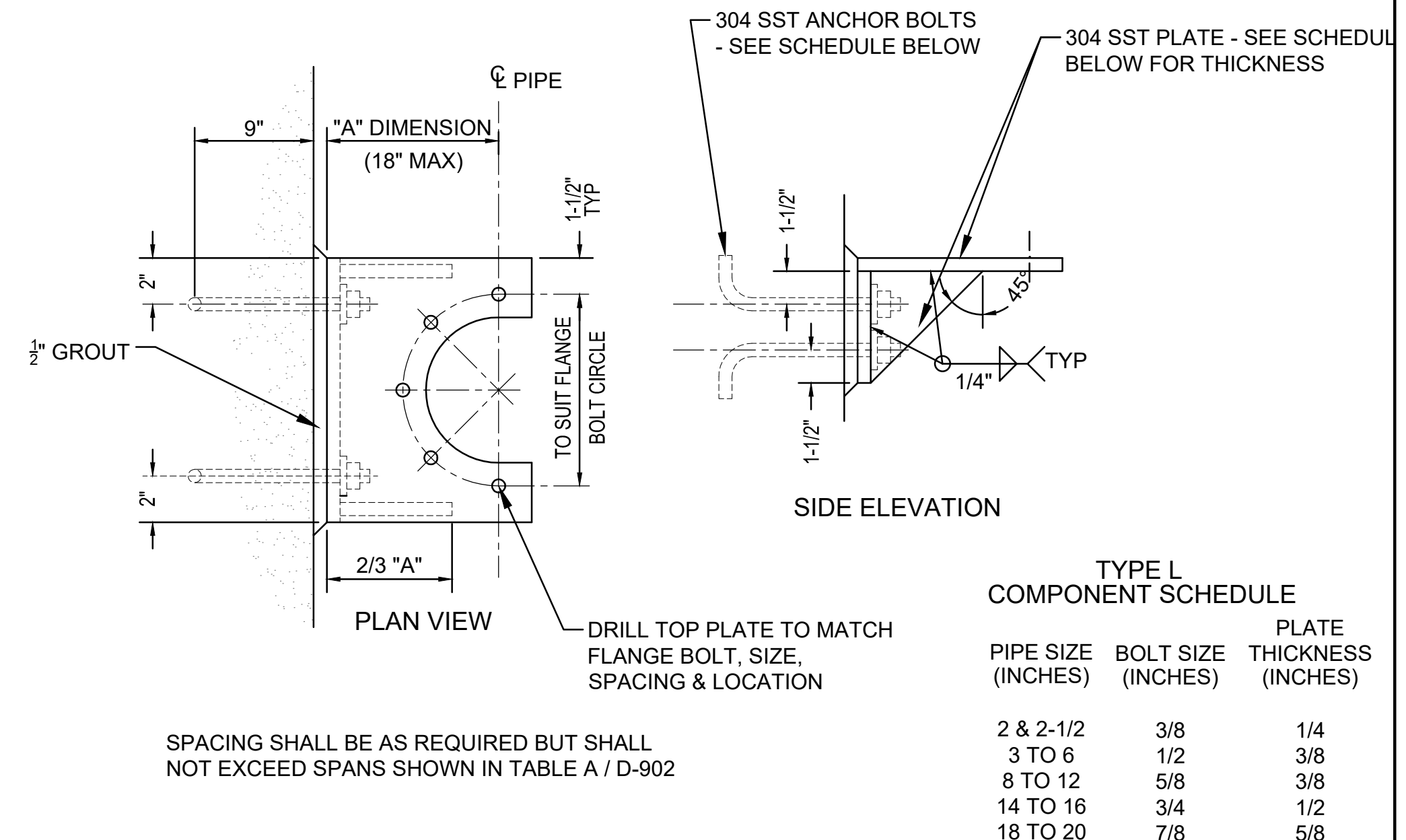
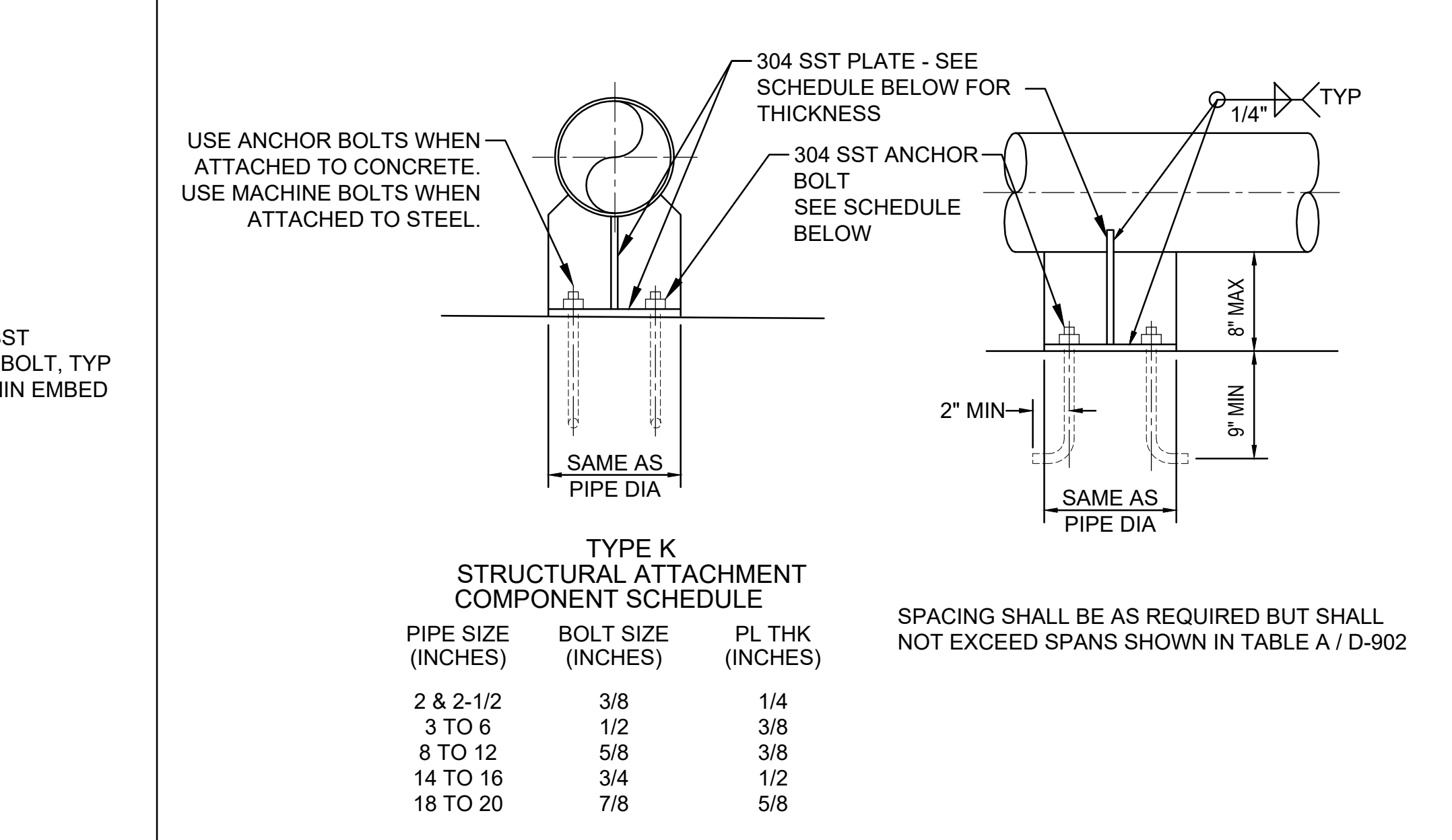
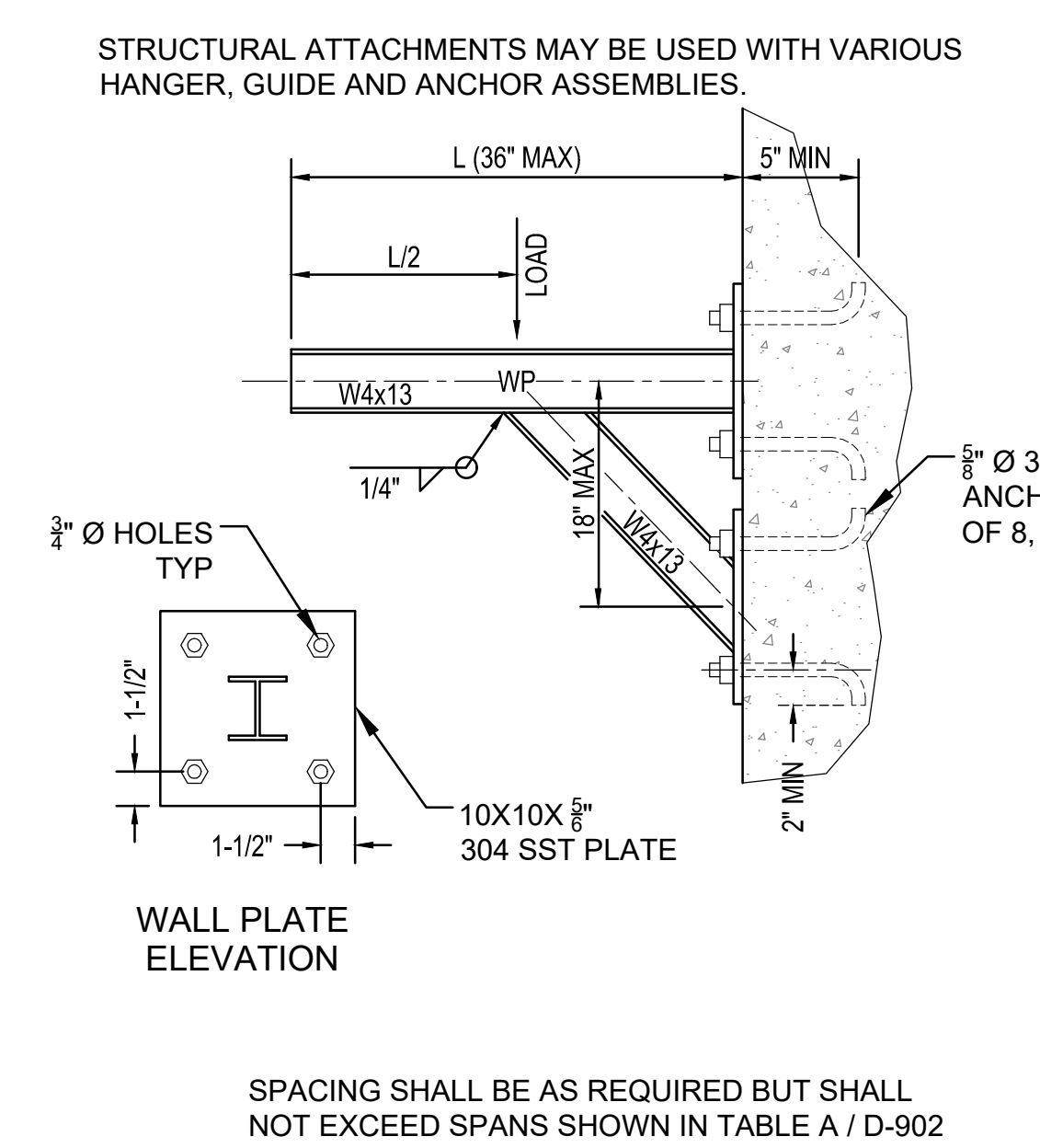


E **DETAIL - TYPE E ATTACHMENT**
D-904 SCALE: NOT TO SCALE

F **DETAIL - TYPE F ATTACHMENT**
D-904 SCALE: NOT TO SCALE

G **DETAIL - TYPE G ATTACHMENT**
D-904 SCALE: NOT TO SCALE

H **DETAIL - TYPE H ATTACHMENT**
D-904 SCALE: NOT TO SCALE



J **DETAIL - TYPE J ATTACHMENT**
D-904 SCALE: NOT TO SCALE

K **DETAIL - TYPE K ATTACHMENT**
D-904 SCALE: NOT TO SCALE

L **DETAIL - TYPE L ATTACHMENT**
D-904 SCALE: NOT TO SCALE

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BGJWSC Project No. 906
GMC Project #CSAV190007

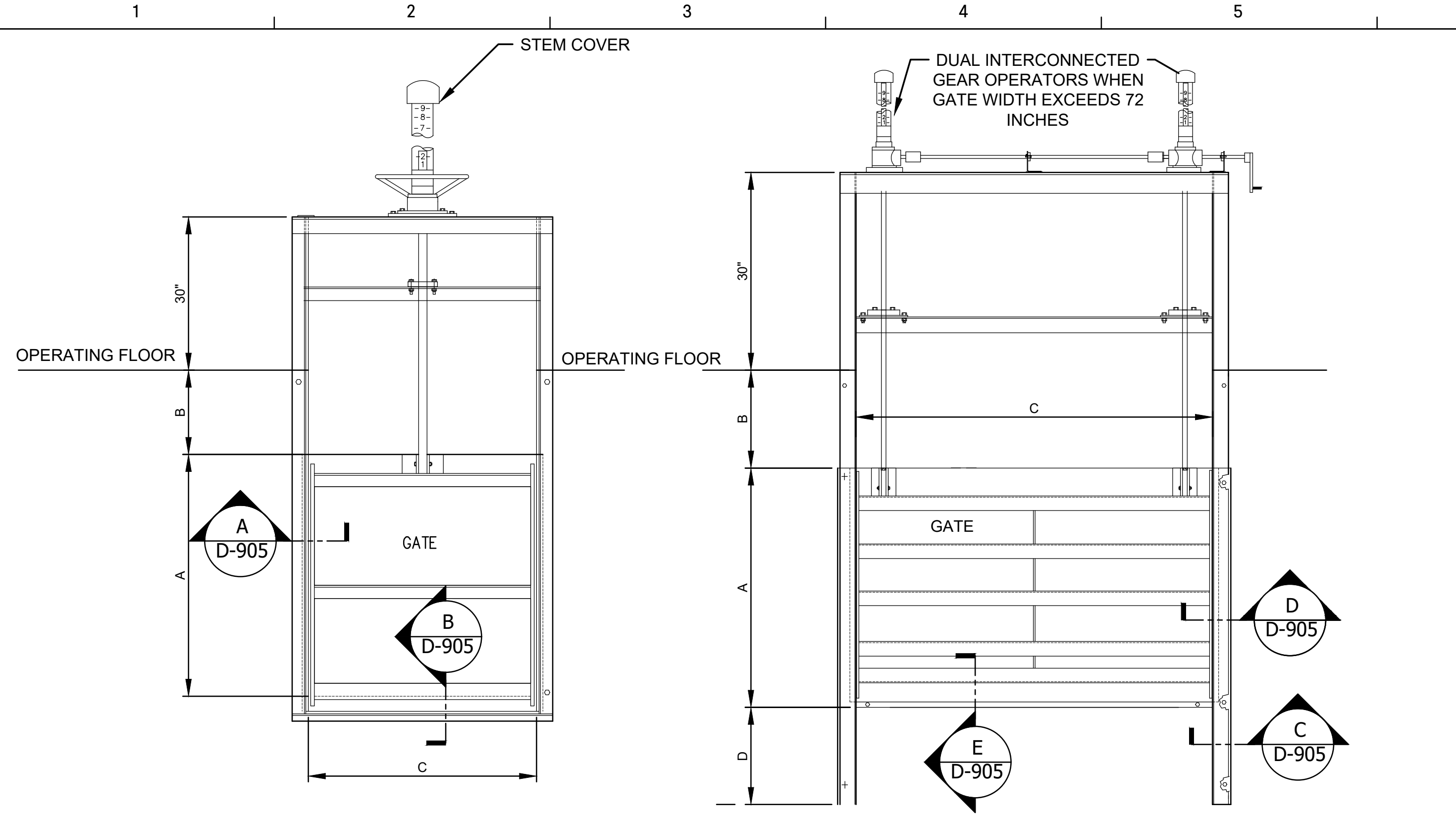
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70% SUBMITTAL	12.16.2019	GS/AJ
100% SUBMITTAL	03.12.2020	GS/AJ
CONSTRUCTION SUBMITTAL	06.15.2020	GS/AJ

PROJECT MANAGER: JCV
ENGINEER: MEF
DESIGNER: GS
DRAWN BY: GS/AJ

PROCESS PIPE
STRUCTURAL
ATTACHMENTS

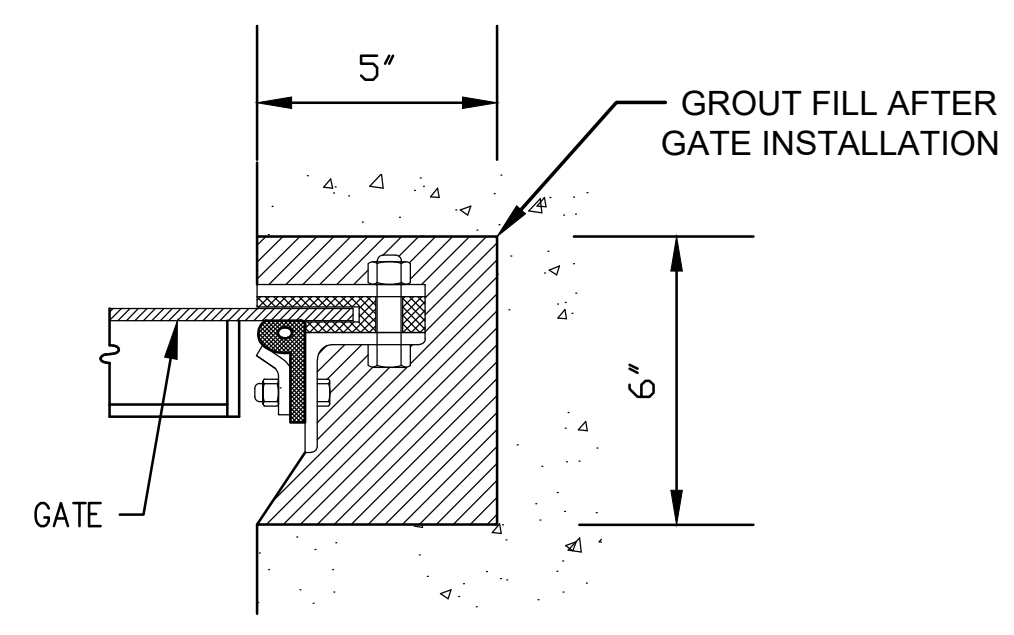
D-904

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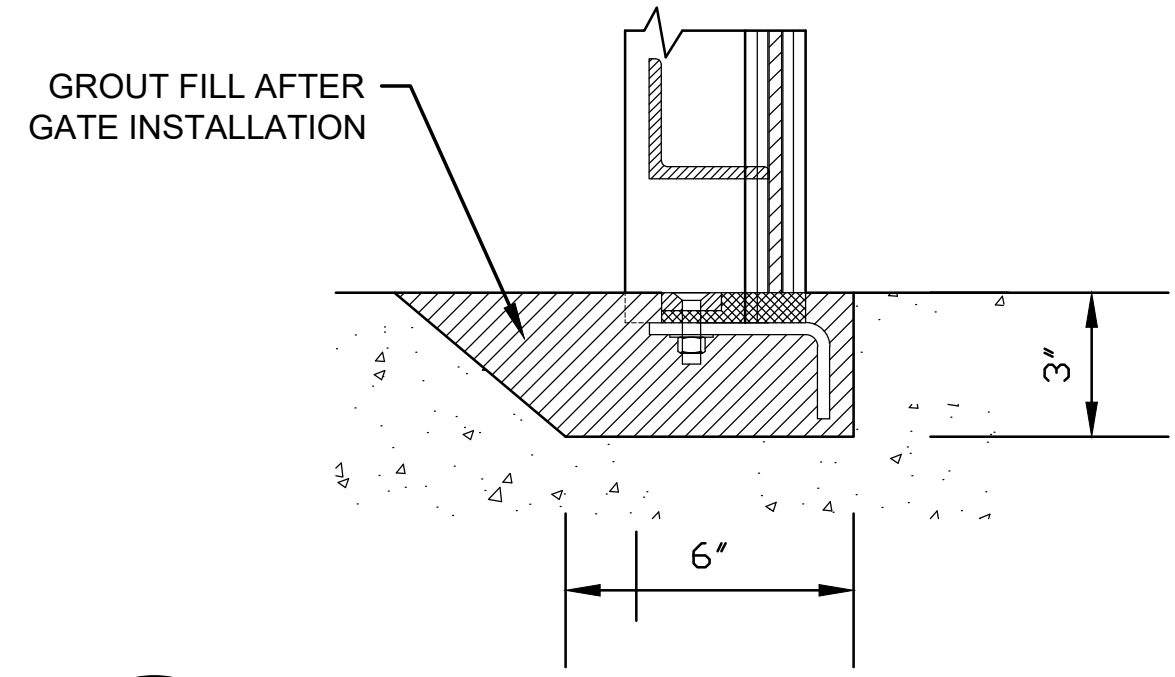


1 ELEVATION - UPWARD OPENING SLIDE GATE
D-905 SCALE: NOT TO SCALE

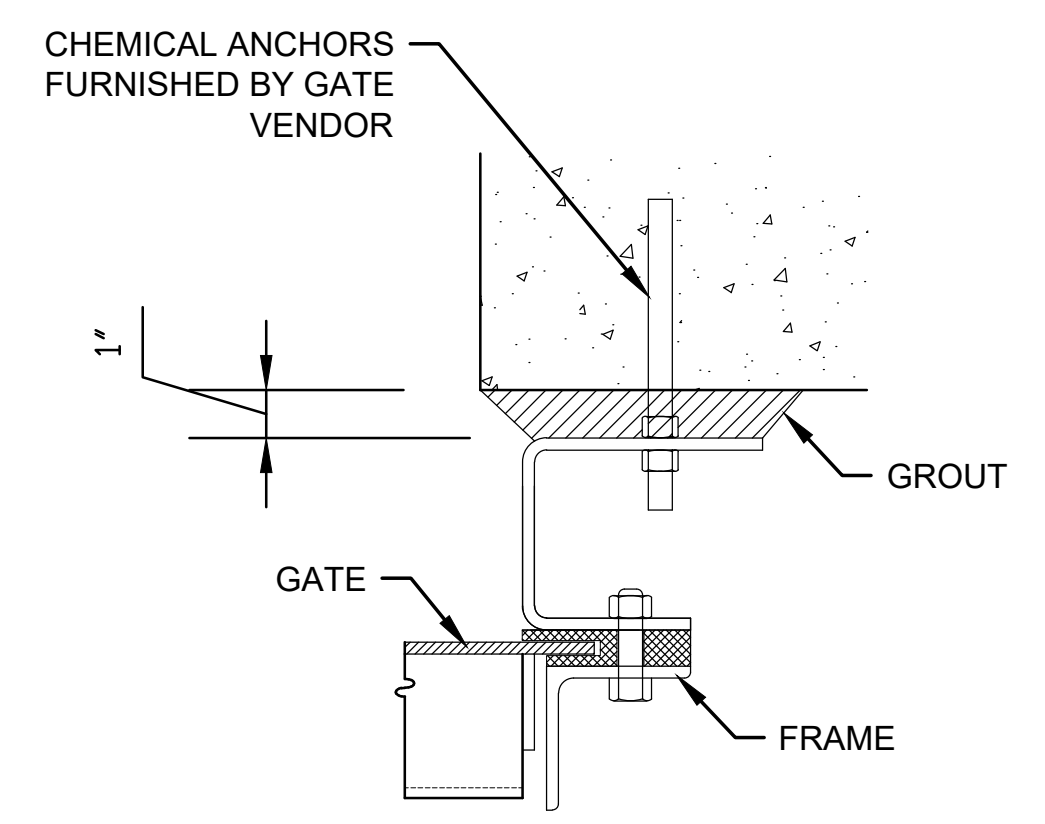
2 ELEVATION - DOWNWARD OPENING WEIR GATE
D-905 SCALE: NOT TO SCALE



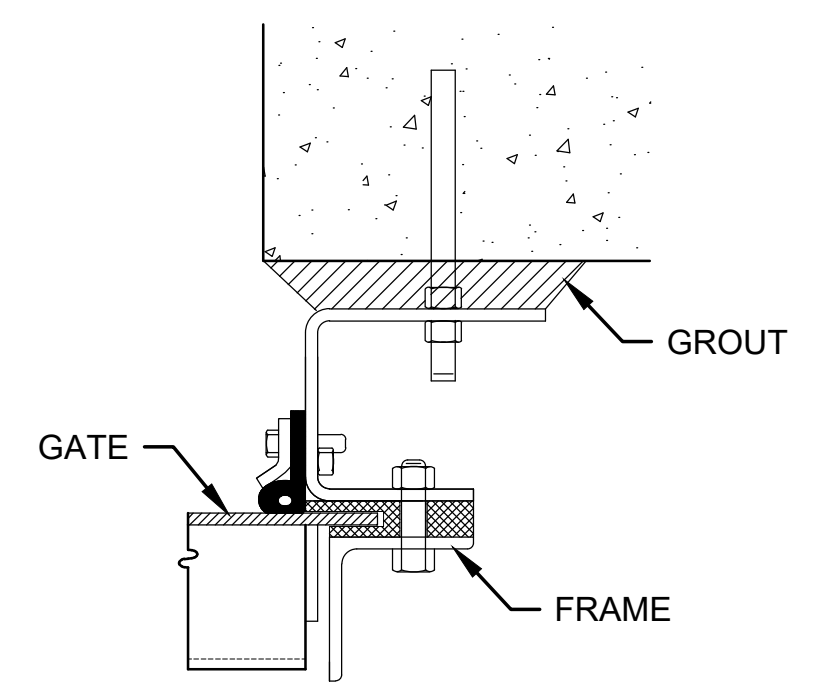
A DETAIL
D-905 SCALE: NOT TO SCALE



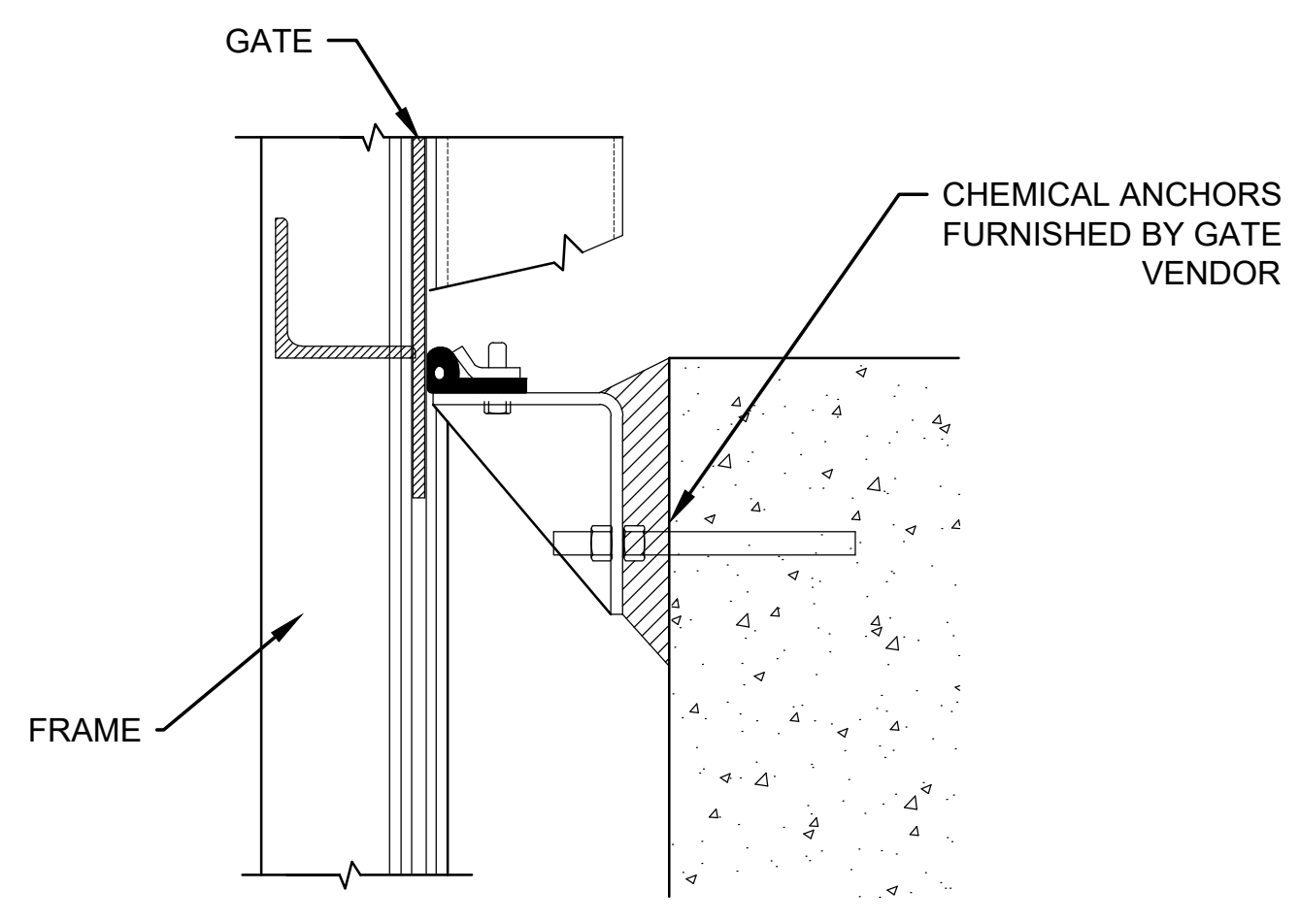
B DETAIL
D-905 SCALE: NOT TO SCALE



C DETAIL
D-905 SCALE: NOT TO SCALE



D DETAIL
D-905 SCALE: NOT TO SCALE



E DETAIL
D-905 SCALE: NOT TO SCALE

FABRICATED SLIDE GATE SCHEDULE										
GATE ID	TYPE	LOCATION	MOUNT	OPERATOR	HEIGHT A (INCHES)	HEIGHT B (INCHES)	WIDTH C (INCHES)	HEIGHT D (INCHES)	DESIGN SEATING HEAD (FEET)	DESIGN UNSEATING HEAD (FEET)
SG1011	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	HEADWORKS INLET CHANNEL - (NOTE 1)	EMBEDDED FRAME GROUTED IN PLACE	GEAR-ASSISTED CRANK	48	12	48	-	4	4
SG1012	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	HEADWORKS INLET CHANNEL - (NOTE 1)	EMBEDDED FRAME GROUTED IN PLACE	GEAR-ASSISTED CRANK	48	12	48	-	4	4
SG1013	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	HEADWORKS INLET CHANNEL - (NOTE 1)	EMBEDDED FRAME GROUTED IN PLACE	GEAR-ASSISTED CRANK	48	12	48	-	4	4
SG1014	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	HEADWORKS INLET CHANNEL - (NOTE 1)	EMBEDDED FRAME GROUTED IN PLACE	GEAR-ASSISTED CRANK	48	12	48	-	4	4
SG1015	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	HEADWORKS INLET CHANNEL - (NOTE 1)	EMBEDDED FRAME GROUTED IN PLACE	GEAR-ASSISTED CRANK	48	12	48	-	4	4
SG2031	RISING STEM, SELF-CONTAINED, DOWNWARD OPENING GATE	MAIN SPLITTER - AB1 FEED	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	24	18	72	30	2	1.5
SG2032	RISING STEM, SELF-CONTAINED, DOWNWARD OPENING GATE	MAIN SPLITTER - AB2 FEED	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	24	18	72	30	2	1.5
SG2033	RISING STEM, SELF-CONTAINED, DOWNWARD OPENING GATE	MAIN SPLITTER - AB3 FEED	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	24	18	72	30	2	1.5
SG4110	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 1 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG4120	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 2 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG4210	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 2 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG4220	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 2 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG4310	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 2 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG4320	RISING STEM, SELF-CONTAINED, UPWARD OPENING GATE	CLARIFIER NO. 2 - INLET (NOTE 2)	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	30	132	30	-	12	3
SG5100	RISING STEM, SELF-CONTAINED, DOWNWARD OPENING GATE	FILTER INLET	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	44	26	96	44	2	-
SG5200	RISING STEM, SELF-CONTAINED, DOWNWARD OPENING GATE	FILTER INLET	SURFACE MOUNTED CONCRETE WALL	GEAR-ASSISTED CRANK	44	26	96	44	2	-

- NOTES:
- REMOVE EXISTING GATES & REPLACE WITH NEW GATES. FIELD VERIFY EXISTING GATE DIMENSIONS PRIOR TO FABRICATION.
 - REMOVE EXISTING GATES & REPLACE WITH NEW GATES. FIELD VERIFY EXISTING GATE DIMENSIONS PRIOR TO FABRICATION. GATE BOTTOMS ARE DETAIL B AS SHOWN ON THIS SHEET.

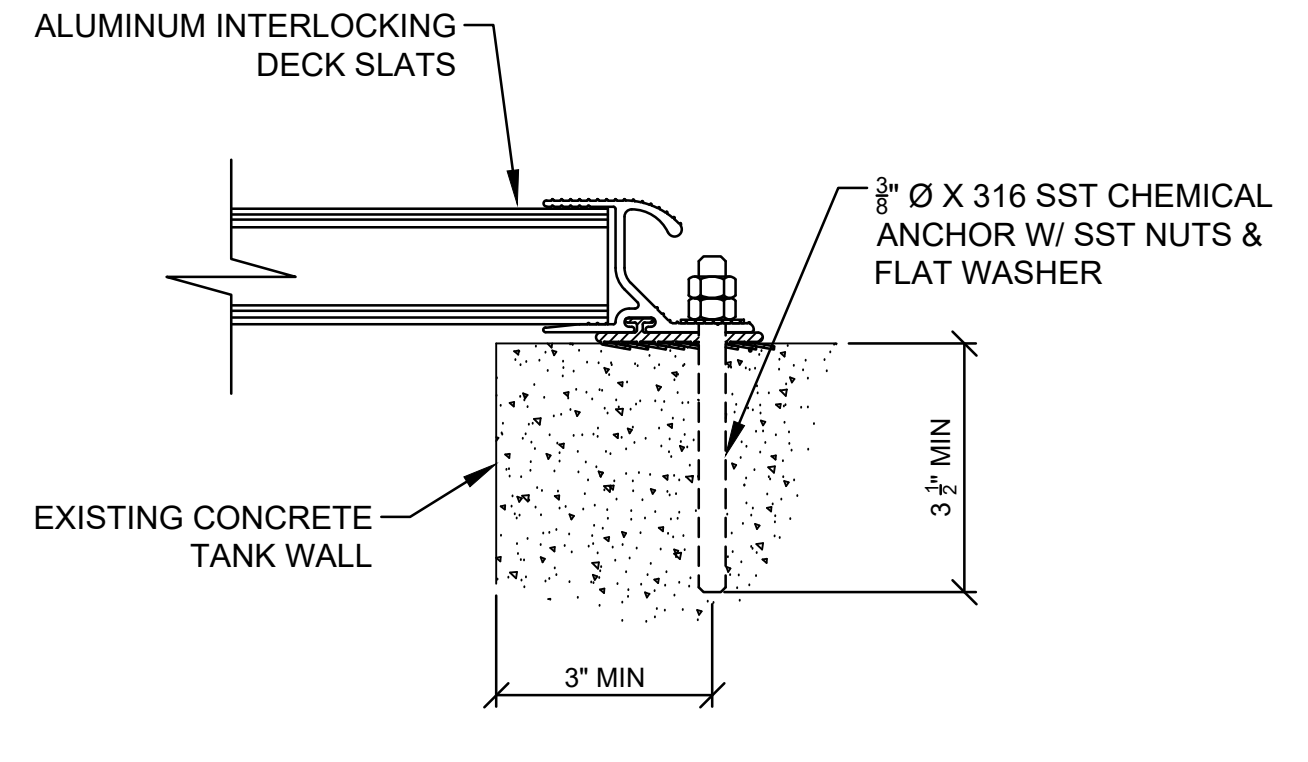
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<p>ISSUE DATE</p> <p>30% SUBMITTAL 09.09.2019</p> <p>70% SUBMITTAL 12.16.2019</p> <p>100% SUBMITTAL 03.12.2020</p> <p>CONSTRUCTION SUBMITTAL 06.15.2020</p> <p>PROJECT MANAGER: JCV</p> <p>ENGINEER: MEF</p> <p>DESIGNER: GS</p> <p>DRAWN BY: GS/AJ</p>	<p>2019 WPCF REHABILITATION ACADEMY CREEK BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION</p> <p>BGJWSC Project No. 906 GMC Project #CSAV190007</p>
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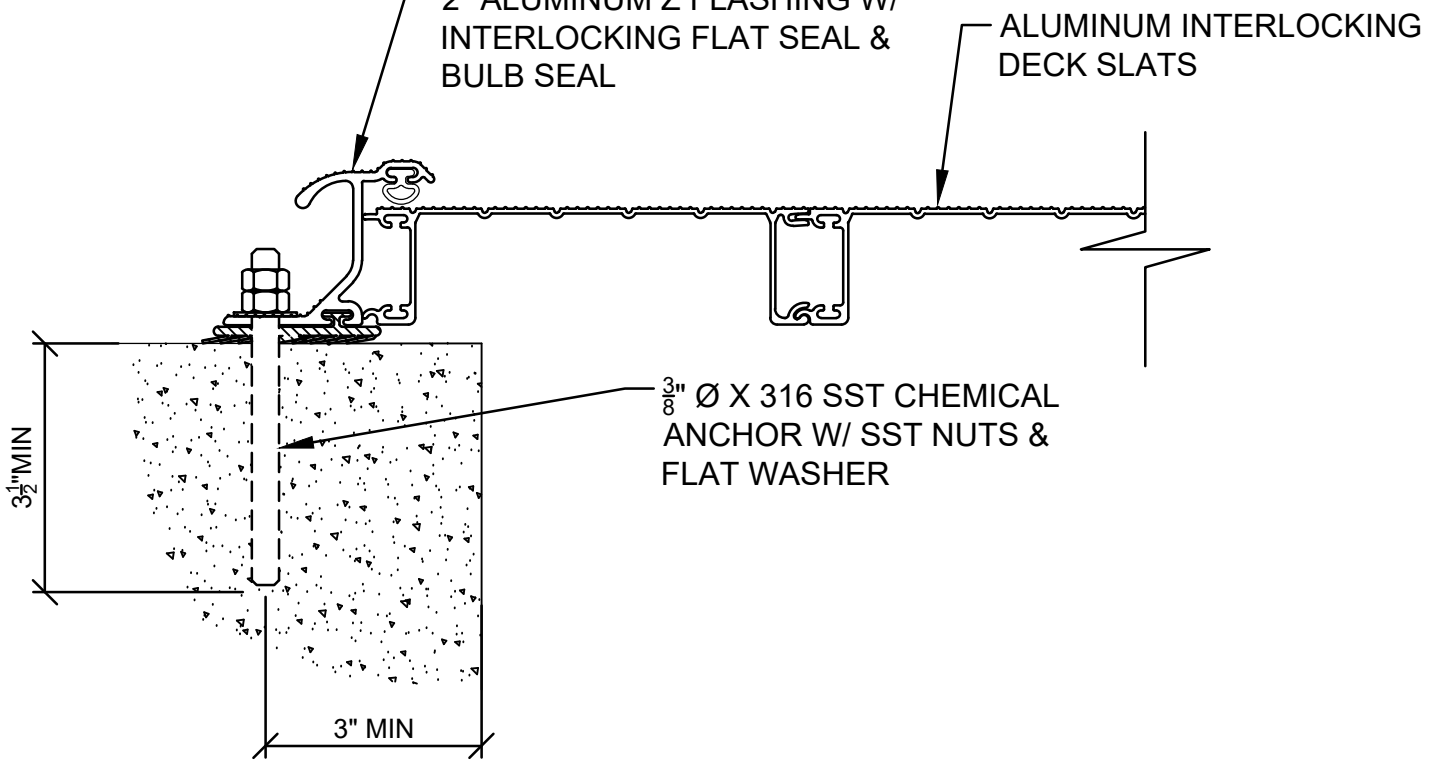
D-905

GATES SCHEDULE & DETAILS

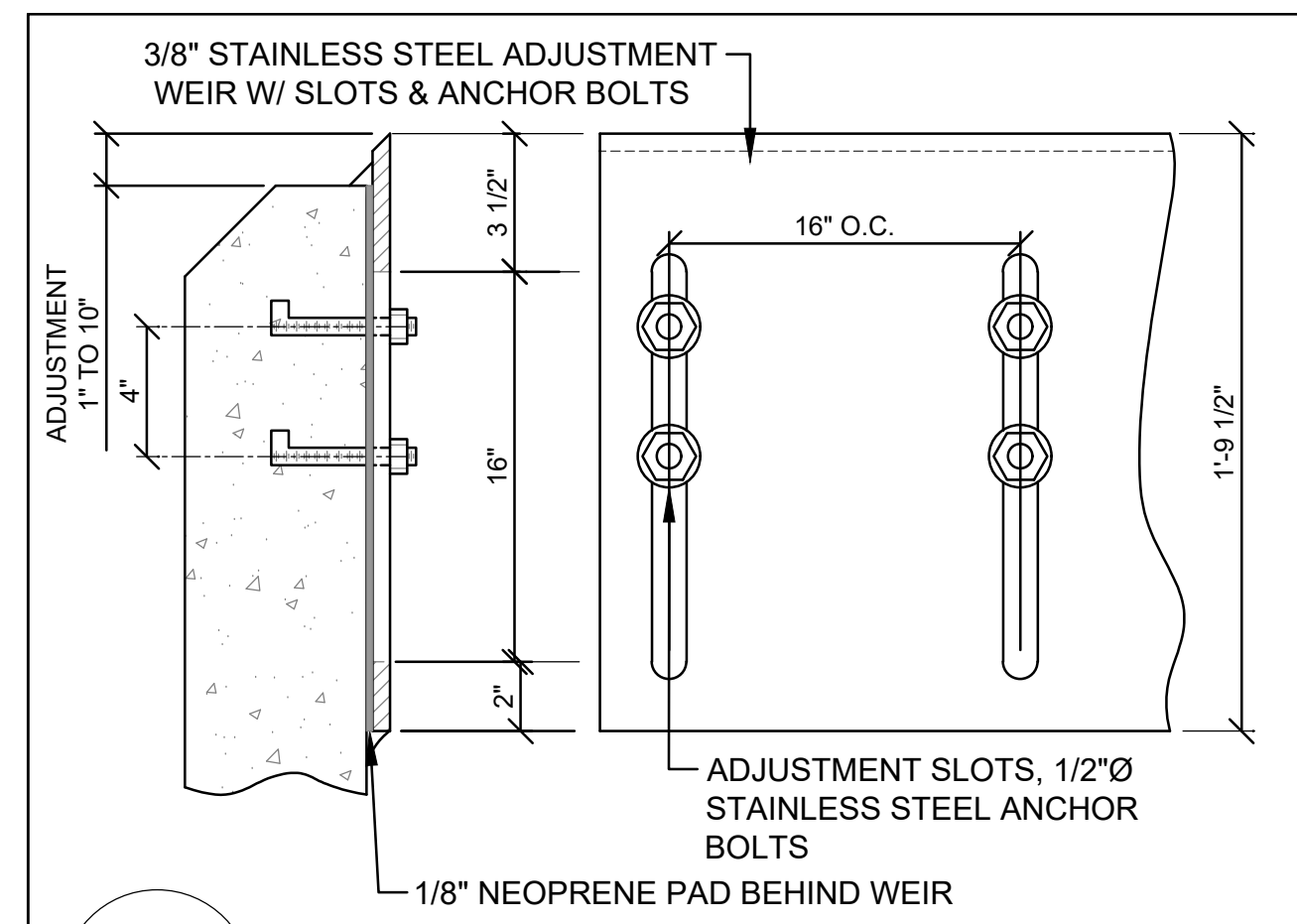
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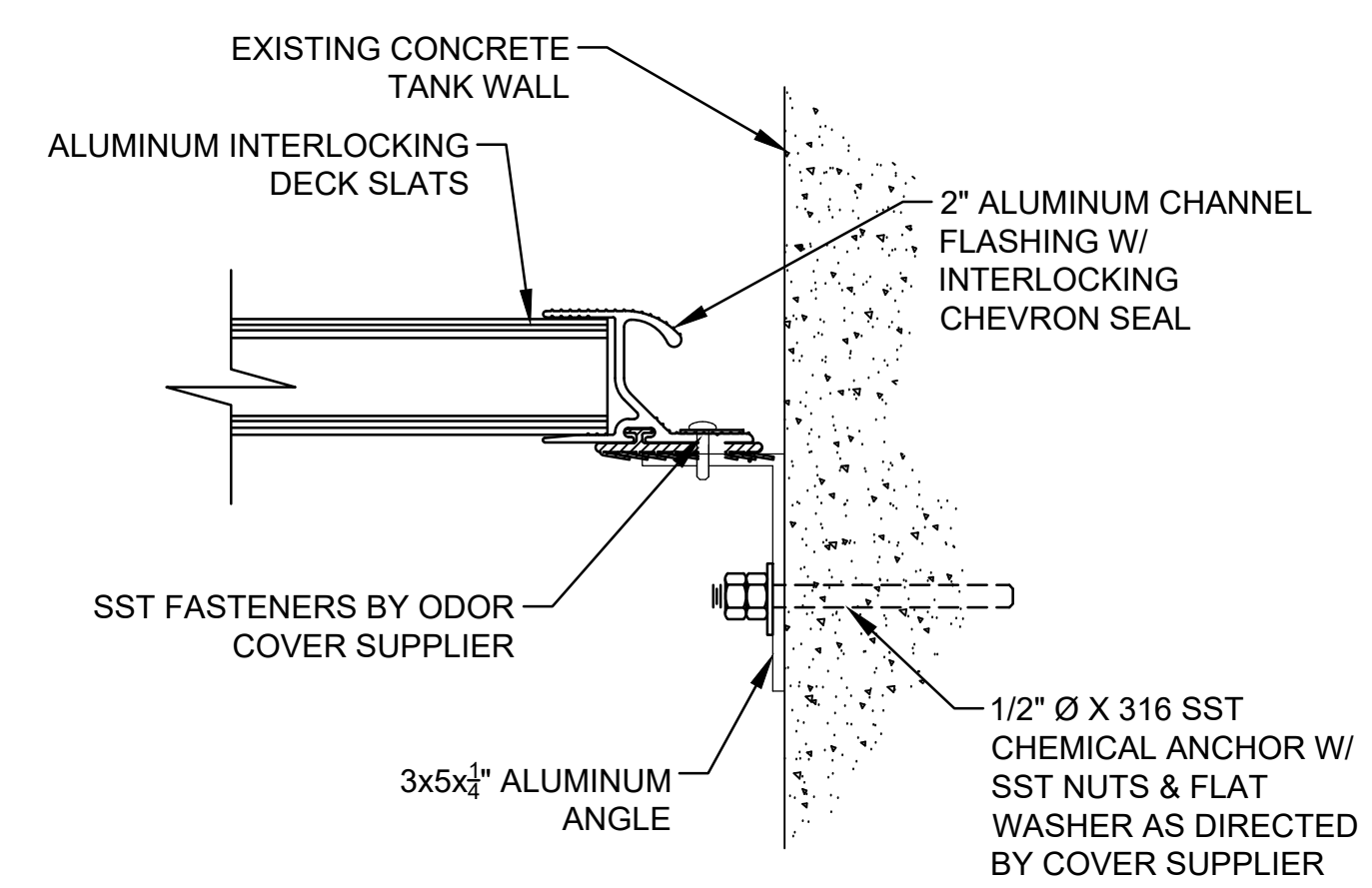
1 ODOR CONTROL COVER EDGE
D-101 SCALE: 3" = 1'-0"



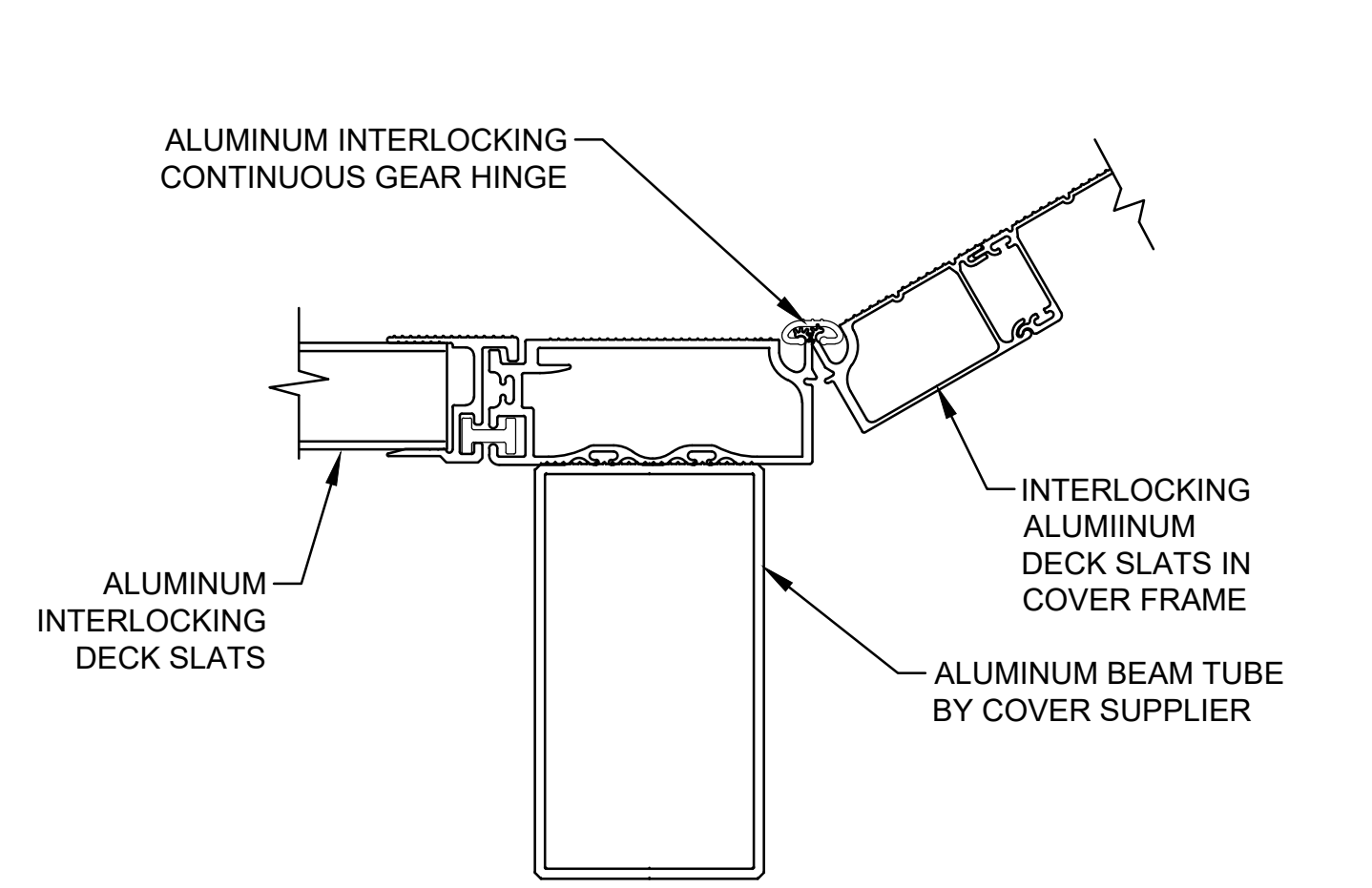
2 ODOR CONTROL COVER END
D-101 SCALE: 3" = 1'-0"



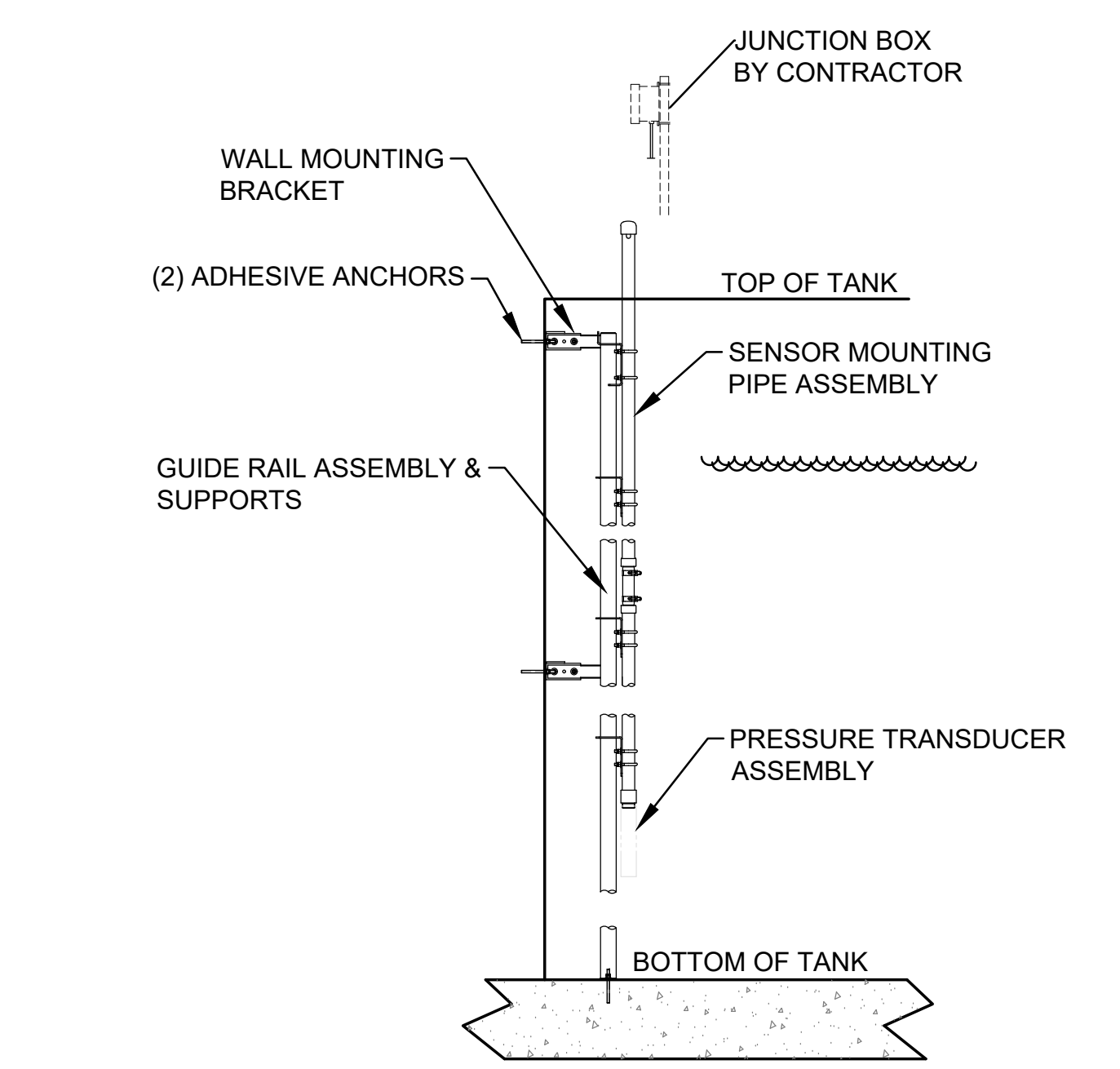
7 DETAIL - WEIR
D-601 SCALE: NOT TO SCALE



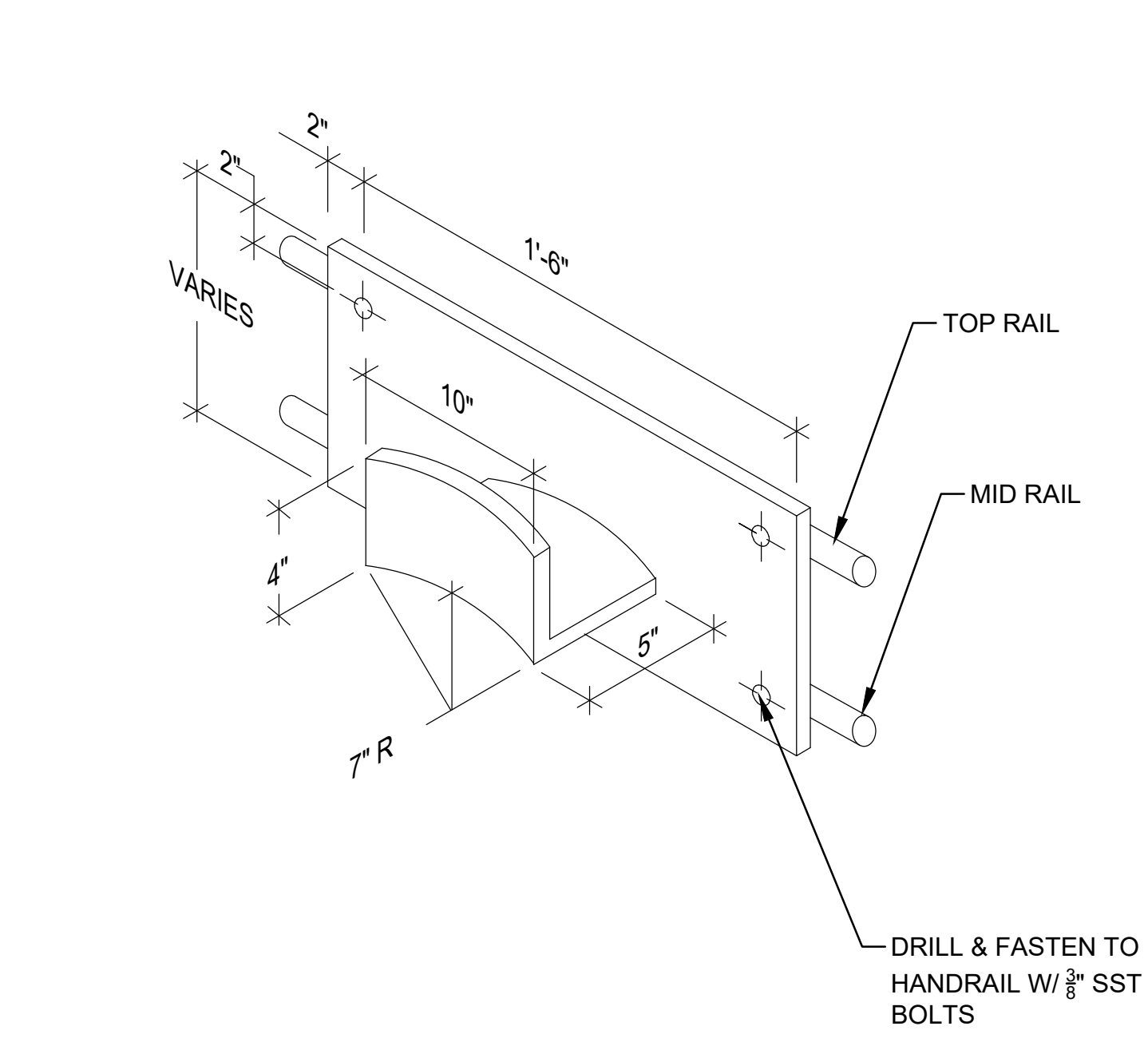
3 COVER EDGE @ VERT WALL
D-101 SCALE: 3" = 1'-0"



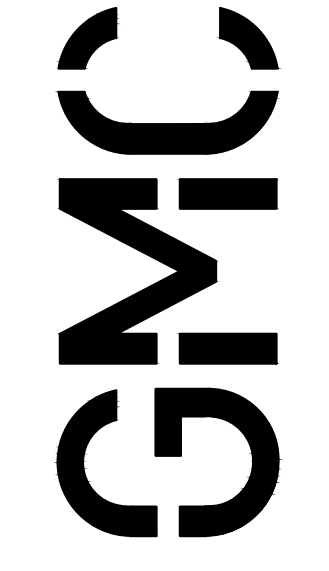
4 COVER EDGE @ PUMP HATCH
D-101 SCALE: 3" = 1'-0"



6 LEVEL TRANSDUCER MOUNT
D-906 SCALE: NOT TO SCALE



5 RAIL-MOUNTED HOSE RACK DEATIL
D-906 SCALE: NOT TO SCALE



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PROJECT MANAGER:	JCV
ENGINEER:	MEF
DESIGNER:	GS
DRAWN BY:	GS/AJ

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGJWSC Project No. 906
GMC Project #CSAV190007



PROCESS DETAILS

D-906

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PLOTTED: Jun 05, 2020 - 11:17am

Mark	Type	Size (inches)	Service	Connection	Operator	Comments
V 2001	Plug Valve	16	RAS	MJ	MH	
V 3001	Plug Valve	16	RAS	MJ	N/A	
V 3002	Plug Valve	16	RAS	MJ	N/A	
V 3003	Plug Valve	16	RAS	MJ	N/A	
V 5100	Plug Valve	6	BWW	MJ	Manual Nut	Tertiary Filter package
V 5101	Plug Valve	6	BW	FL	MH	Tertiary Filter package
V 5102	Plug Valve	8	D	FL	N/A	Tertiary Filter package
V 5103	Plug Valve	6	D	MJ	Manual Nut	Tertiary Filter package
V 5104	Plug Valve	6	BW	MJ	N/A	
V 5105	Plug Valve	6	BW	MJ	N/A	Tertiary Filter package
V 5106	Plug Valve	6	BW	MJ	N/A	Tertiary Filter package
V 5107	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5108	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5109	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5200	Plug Valve	6	BWW	MJ	Manual Nut	Tertiary Filter package
V 5201	Plug Valve	6	BW	FL	MH	Tertiary Filter package
V 5202	Plug Valve	8	D	FL	N/A	Tertiary Filter package
V 5203	Plug Valve	6	D	MJ	Nut	
V 5204	Plug Valve	6	BW	MJ	N/A	Tertiary Filter package
V 5205	Plug Valve	6	BW	MJ	N/A	Tertiary Filter package
V 5206	Plug Valve	6	BW	MJ	N/A	Tertiary Filter package
V 5207	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5208	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5209	Ball Valve	1/2	BW	THD	Lever	Tertiary Filter package
V 5300	Butterfly Valve	48	SE	MJ	Manual Nut	Buried Service Operator
V 5301	Butterfly Valve	48	FE	MJ	Manual Nut	Buried Service Operator
V 7001	Plug Valves	8	DS	FL	MH	
V 7002	Plug Valves	8	DS	FL	MH	
V 8001	Ball Valve	1	FAD	FL	Lever	
V 8002	Ball Valve	1	V	THD	Lever	
V 8003	Ball Valve	2	CD	THD	Lever	
V 8004	Ball Valve	2	CD	THD	Lever	
V 8005	Check Valve	2	CD	THD	N/A	
V 8006	Ball Valve	2	CD	THD	Lever	
V 8007	Ball Valve	1/2	CD	THD	Lever	
V 8008	Check Valve	1/1	C	THD	N/A	
V 8009	Ball Valve	1/2	C	THD	N/A	
V 8010	Ball Valve	1/2	C	THD	N/A	
V 8011	Butterfly	20	FAD	FL	Lever	
V 8012	Ball Valve	1	D	THD	Lever	
V 8111	Ball Valve	1 1/2	W	THD	Lever	
V 8112	Ball Valve	1 1/2	POLS	THD	Lever	
V 8113	Ball Valve	1 1/2	POLS	THD	Lever	
V 8121	Ball Valve	1 1/2	W	THD	Lever	
V 8122	Ball Valve	1 1/2	POLS	THD	Lever	
V 8123	Ball Valve	1 1/2	POLS	THD	Lever	
V 8131	Ball Valve	1 1/2	POLS	THD	Lever	

VALVE SCHEDULE-1

D-910

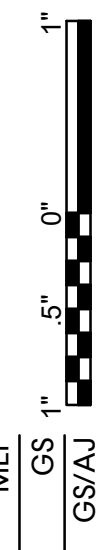
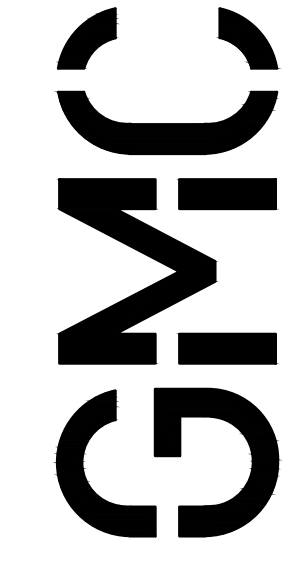


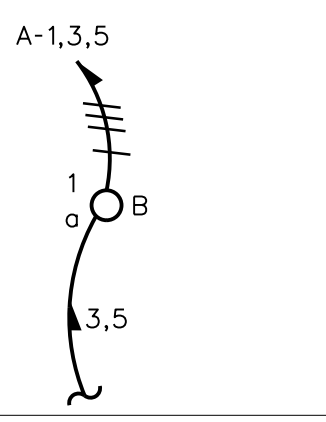

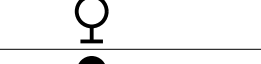

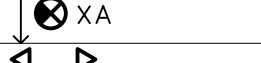

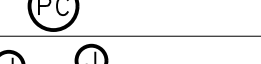
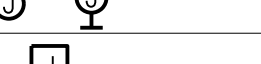


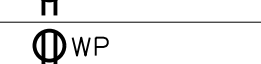

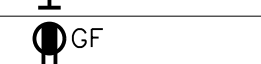











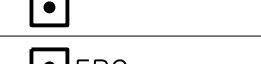
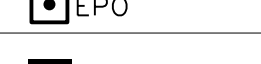
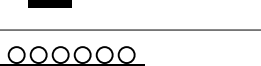

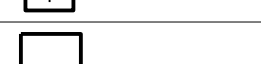








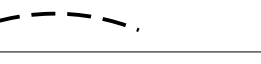
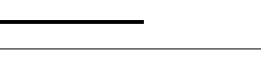



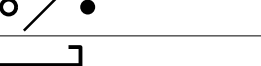

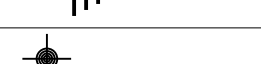

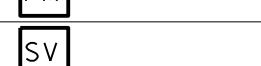




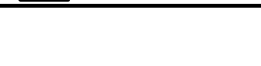

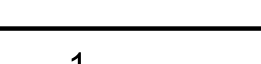
2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
 BGJWSC Project No. 906
 GMC Project #CSAV190007

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.15.2020

PROJECT MANAGER: JCV
 ENGINEER: MEF
 DESIGNER: GS
 DRAWN BY: GS/AJ

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LEGEND	
SYMBOL	DESCRIPTION
	A-1,3,5 ADJACENT TO ARROW INDICATES HOME-RUN OF CIRCUITS 1,3,5 TO PANEL A. 3,5 OR A-3,5 ADJACENT TO ARROW INDICATES CIRCUIT CONTINUATION. MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO. 12 CONDUCTORS. UNLESS NOTED, NO MARKS INDICATES TWO NO. 12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT SHOWN, SEE GENERAL NOTES. IF INDICATED ADJACENT TO OUTLET, NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCHLEG DESIGNATION RESPECTIVELY. TYPE B OR CAPITAL LETTER B INDICATES LIGHT FIXTURE TYPE. UNLESS NOTED, DIMENSIONS INDICATED IN LEGEND AND ON PLANS ARE TO BOTTOM OF OUTLET OR DEVICE. ALL SYMBOLS INDICATED HEREIN MAY NOT NECESSARILY BE USED ON THE PLANS.
	CEILING OUTLET AND FLUORESCENT FIXTURE
	WALL OUTLET AND FLUORESCENT OR H.I.D. FIXTURE
	WALL OUTLET AND FLUORESCENT OR H.I.D. FIXTURE - EGRESS/EMERGENCY LIGHTING
	OUTLET AND EXIT LIGHT - LETTERS INDICATE FIXTURE TYPE. PROVIDE ARROWS INDICATED
	WALL MOUNTED TWO HEAD EMERGENCY FIXTURE
	PHOTOCELL, TORK MODEL 2107, FAILED CLOSED. MOUNT 8' AFG. AIM AWAY FROM LIGHTS.
	WEATHERPROOF JUNCTION BOX MOUNTED TO CONCRETE STRUCTURE
	POLYMER CONCRETE JUNCTION BOX MOUNTED FLUSH IN GRADE
	DUPLEX RECEPTACLE- MT. 16" AFF, NUMBER DESIGNATES LOCAL BRANCH CIRCUIT SERVING OUTLET
	DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP
	WEATHERPROOF DUPLEX RECEPTACLE, MT. 16" ABOVE FLOOR AND 36" ABOVE EARTH W/ IN-USE COVER, TYPE 'WR' RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE, CAPITAL LETTER INDICATES TYPE- REFER TO SPECS OR SCHEDULE
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP OR AS INDICATED
	DOUBLE DUPLEX RECEPTACLE- MT. 16" AFF
	DUPLEX RECEPTACLE, NEMA 5-20R- MT. 16" AFF
	DATA/TELEPHONE OUTLET- MT. 16" AFF U.N.O. EXTEND 1" C TO ABOVE ACCESSIBLE CEILING
	SINGLE POLE TOGGLE SWITCH- MT. 48" UP
	THREE-WAY TOGGLE SWITCH- MT. 48" UP
	FOUR-WAY TOGGLE SWITCH - MT. 48" UP
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION - MT. 48" UP.
	MOTOR RATED DISCONNECT SWITCH, SINGLE PHASE - MT. 48" UP.
	WALL OCCUPANCY SENSOR, 48" AFF
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
	LED 1% DIMMER, 48" AFF, COMPATIBLE WITH FIXTURES PROVIDED
	PUSH-BUTTON START/STOP SWITCH
	EMERGENCY POWER-OFF PUSHBUTTON STATION
	PANELBOARD, SURFACE MOUNTED
	TELEPHONE OR SIGNAL BACKBOARD, 3/4" X 4" X 8" UNLESS NOTED
	DRY-TYPE TRANSFORMER - VOLTAGE, PHASE, AND KVA AS INDICATED
	EQUIPMENT AS NOTED
	ELECTRIC METER
	MOTOR, HORSEPOWER AS INDICATED
	NON-FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE AS INDICATED
	FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE/FUSE RATING AS INDICATED
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/NON-FUSIBLE DISCONNECT SWITCH
	ELECTRIC THERMOSTAT- MT. 54" A.F.F.
	RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
	RACEWAY INSTALLED CONCEALED IN/OR BELOW FLOOR SLAB OR BELOW GRADE
	RACEWAY INSTALLED EXPOSED
	SURFACE RACEWAY - SEE NOTE G9
	FLEXIBLE METALLIC RACEWAY
	CONDUIT STUB-UP AND HOMERUN
	CONDUIT UP/CONDUIT DOWN
	CONDUIT TERMINATION, STUB-OUT
	GROUND
	GROUND ROD LOCATION
	FLOW METER, ULTRASONIC TYPE, PROVIDED BY OTHERS
	SOLENOID VALVE, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED.
	PRESSURE SWITCH, PROVIDED WITH EQUIPMENT, FIELD INSTALLED AND WIRED
	STANDALONE 120V PHOTOELECTRIC SMOKE DETECTORS WITH INTEGRAL AUDIBLE SIGNAL
	WATER COOLER CONNECTION - NOTE G8
	POSITION SWITCH FOR SLIDE GATE VALVES. FURNISHED BY OTHERS.

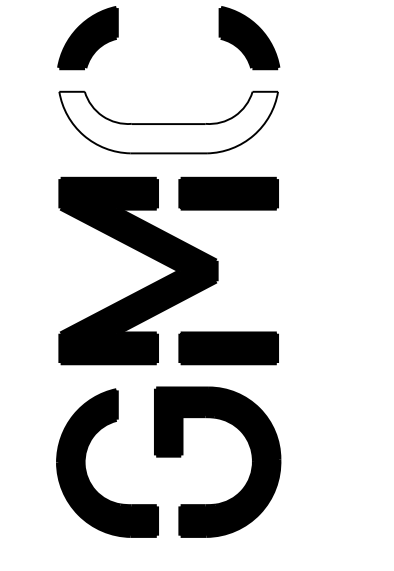
ABBREVIATIONS			
A OR AMP	AMPERES	MCB OR MB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MH OR MTG	MOUNTING HEIGHT
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AM	AMMETER	MT OR MTD	MOUNT OR MOUNTED
AS	AMMETER SELECTOR SWITCH	NEC	NATIONAL ELECTRICAL CODE
ASYM	ASYMMETRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOC.
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
C	CONDUIT	P	POLE
CB	CIRCUIT BREAKER	PMT	PAD MOUNT TRANSFORMER
CKT	CIRCUIT	PNL	PANELBOARD
CLF	CURRENT LIMITING FUSE	RC	REMOTE CONTROL SWITCH
CNTL	CONTROL	RECEPT	RECEPTACLE
CT	CURRENT TRANSFORMER	RMS	ROOT MEAN SQUARE
D	DEPTH	SW	SWITCH
DISC	DISCONNECT SWITCH	SWBD	SWITCHBOARD
DISC SW	DISCONNECT SWITCH	SYM	SYMMETRICAL
EXP	EXPLOSION PROOF	TBB	TELEPHONE BACKBOARD
	FUSE	TYP	TYPICAL
FA	FIRE ALARM	UG	UNDERGROUND
FACP	FIRE ALARM CONTROL PANEL	UL	UNDERWRITERS LABORATORIES
FMPX	FIRE ALARM MULTIPLEX PANEL	UNO	UNLESS NOTED OTHERWISE
G OR GND	GROUND	V	VOLTS
	HEIGHT	VM	VOLTMETER
HP	HORSEPOWER	VS	VOLTMETER SELECTOR SWITCH
JB OR J	JUNCTION BOX	W	WIDTH
KVA	KILOVOLT - AMPS	W/	WITH
KW	KILOWATTS	WHDM	WATT HOUR DEMAND METER
	LENGTH	WM	WATTMETER
LA	LIGHTNING ARRESTOR	WP	WEATHER PROOF
		XFMR	TRANSFORMER

DEMOLITION NOTES:

- D1. REMOVE ALL ELECTRICAL EQUIPMENT FROM AREAS FOR NEW STORAGE AND OFFICES SHOWN ON SHEETS E-301, 302, 303 AND 304.

GENERAL NOTES: (FOR ALL DRAWINGS WHERE APPLICABLE)

- G1. WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G2. ALL EQUIPMENT SUPPORTS AND HANGERS SHALL BE COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE THAT LOCATION OF SUPPORTS AND HANGERS OCCUR WITHIN 4" OF PANEL POINT.
- G3. PIPING HEAT TAPE CONNECTIONS SHALL BE DIRECT CONNECTIONS.
- G4. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS. REFER TO SECONDARY GROUNDING SPECIFICATION SECTION.
- G5. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT PROVIDED WITH THE DRAWINGS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY REQUIRED ADJUSTMENTS IN BREAKER RATINGS, MOTOR CONTROLLERS, FEEDERS, ETC. SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. ALL REQUIRED ADJUSTMENTS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER BEFORE PROCEEDING.
- G6. THE AUTOMATIC TRANSFER SWITCH SHALL PROVIDE A PRE TRANSFER AND POST TRANSFER SIGNAL TO THE IN-PLANT SCADA SYSTEM. THE SCADA PANEL SHALL PROVIDE THE LOAD STEP SEQUENCE REQUIRED IN SPECIFICATION SECTION 263213.
- G7. THE GENERATOR REMOTE ANNUNCIATOR SHALL BE LOCATED IN THE CONTROL BUILDING. COORDINATE TRANSMISSION OF SIGNAL FROM THE GENERATOR TO THE CONTROL ROOM.
- G8. PROVIDE GFI RECEPTACLE IN ACCESSIBLE LOCATION IN WATER COOLER HOUSING.
- G9. SURFACE RACEWAYS MOUNTED ABOVE LAB COUNTERS ARE TO BE TWO COMPARTMENT, ALUMINUM SIMILAR TO WIREMOLD AL 4000 WITH ALL MOUNTING ACCESSORIES. MOUNT OUTLET BOXES FLUSH IN WALL TO CIRCUITS WIRING INTO RACEWAY. PROVIDE ONE BOX FOR EVERY 2 CIRCUITS SHOWN PER SECTION. COORDINATE WITH DATA OUTLET BOXES TO BE CONCEALED IN WALL. PROVIDE WIREWAY COVERS FOR DATA JACKS BY OWNER.



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2019 WPCF REHABILITATION
ACADEMY CREEK
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BGWSC Project No. 906
GMC Project #OSAV190007


ISSUE DATE

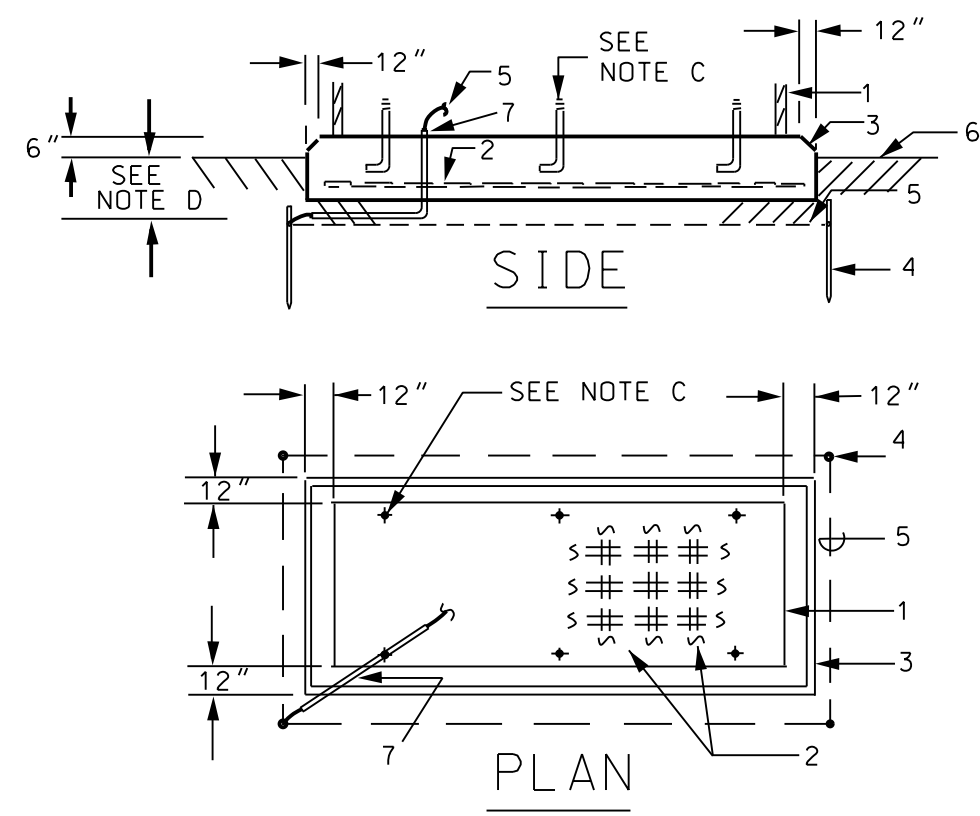
30% SUBMITTAL	09.09.2019
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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

PROJECT MANAGER:
ENGINEER:
DESIGNER:
DRAWN BY:

LEGEND SHEET

E-001



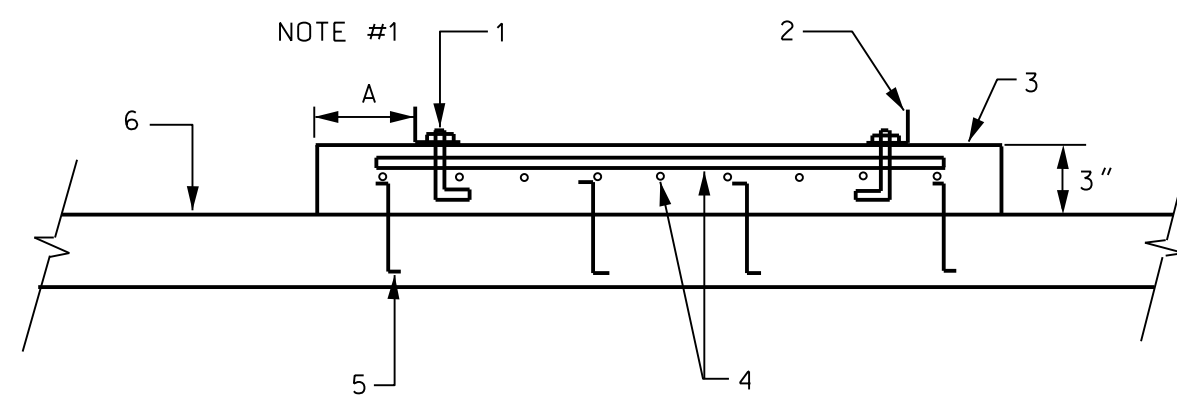


- 1 - GENERATOR SET ENCLOSURE OUTLINE
- 2 - REINFORCING STEEL, NOTE A
- 3 - 1" CHAMFER
- 4 - 3/4" X 10' COPPERCLAD GROUND ROD AND #1/0 CU BARE GROUND CONDUCTOR
- 5 - FINISHED GRADE
- 6 - 3/4" PVC, SEE NOTE B
- 7 - SILICONE CAULK WATERTIGHT SEAL

NOTES: GENERATOR FOUNDATION DETAIL

- A. #8 GA. STEEL WIRE MESH, 6" O.C. OR #6 REBAR, 12" O.C., HORIZ. & VERTICALLY.
- B. CONNECT TO GENERATOR GROUND CONNECTION LUG. VERIFY STUB UP LOCATION WITH MANUFACTURERS SHOP DRAWINGS. WATERPROOF CONDUIT END WITH SEALING COMPOUND.
- C. ANCHOR BOLTS FURNISHED WITH GENERATOR SET. PROVIDE SIX MINIMUM. TIE TO REINFORCING STEEL.
- D. DIMENSION SHALL BE 6" (12" OVERALL DEPTH) UP TO & INCLUDING 600 KW, 12" (18" OVERALL DEPTH) LARGER THAN 600 KW.

1 GENERATOR FOUNDATION DETAIL
E0.2 N.T.S.

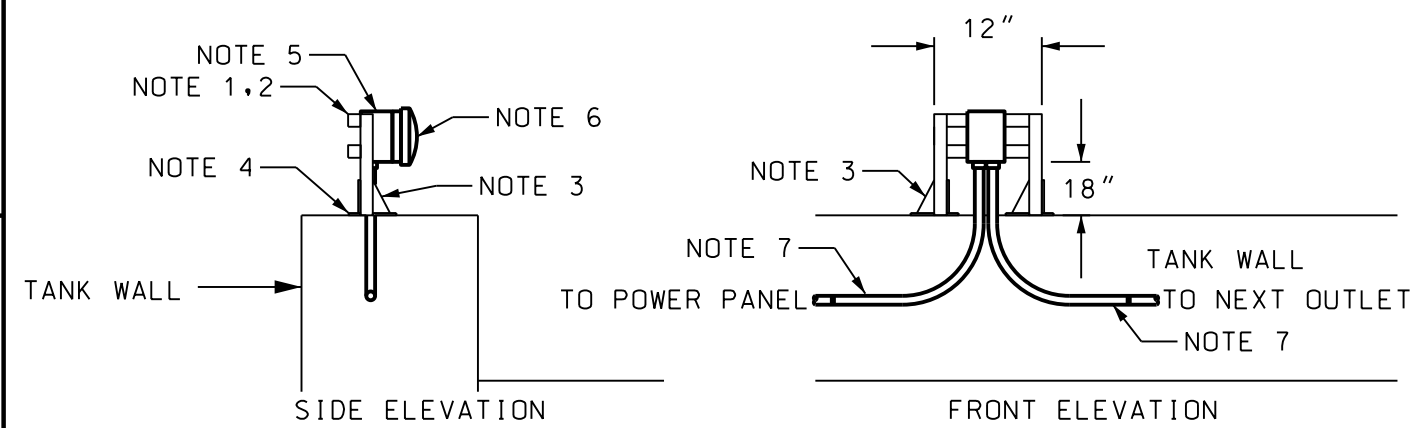


1. 1/2" GALV. ANCHOR BOLTS - 24" O.C. MIN.
2. ELECTRICAL EQUIPMENT MOUNTING FRAME
3. HOUSEKEEPING BASE
4. REINFORCING #4 BAR 12" O.C. BOTH DIRECTIONS
5. #4 Z BAR DOWELS - 12" O.C. BOTH DIRECTIONS
6. FLOOR SLAB

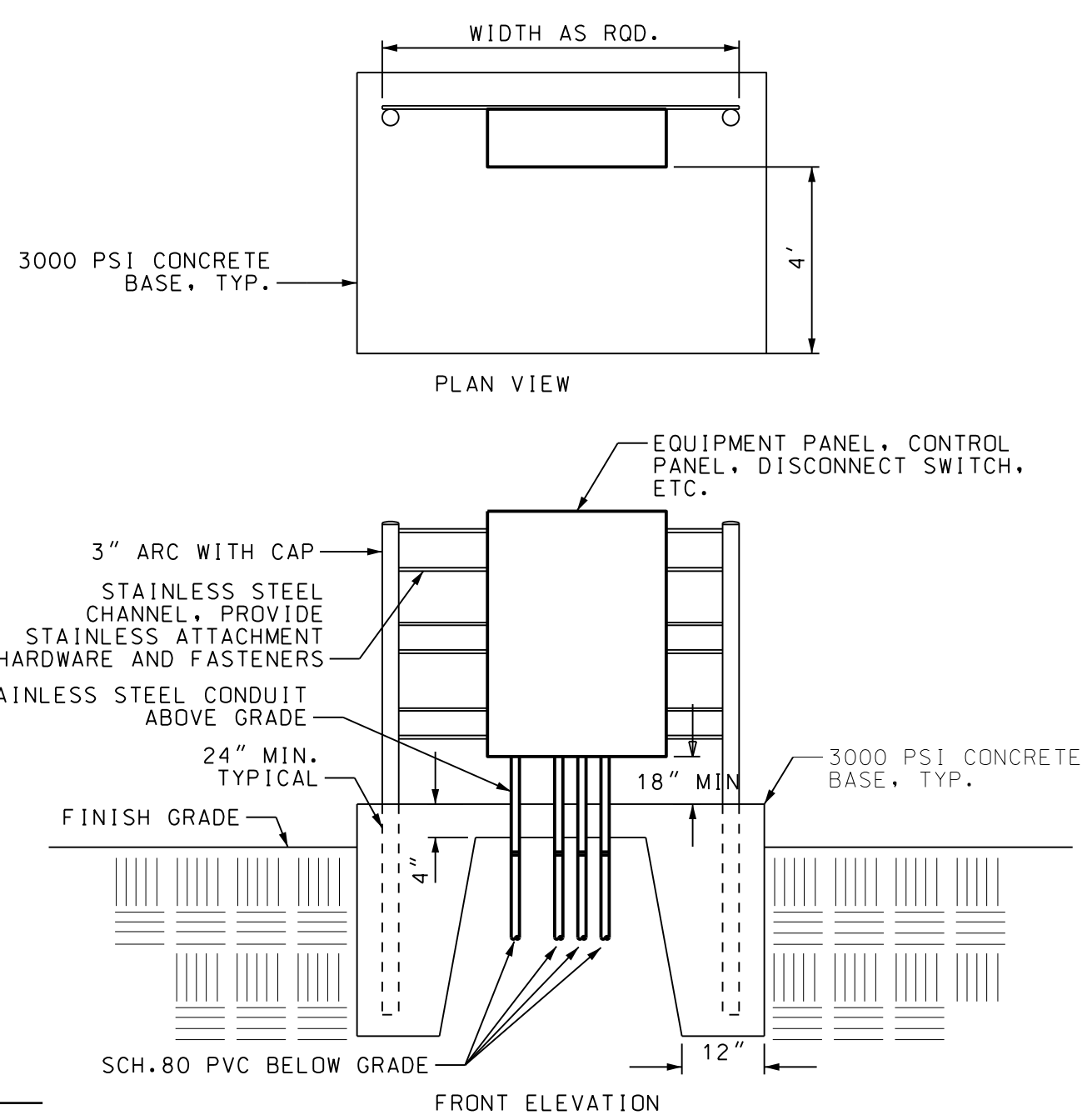
NOTES: ELECTRICAL EQUIPMENT HOUSEKEEPING BASE

1. DIMENSION "A" SHALL EXCEED DIMENSIONS OF EQUIPMENT BASE BY NOT LESS THAN THREE INCHES IN ALL DIMENSIONS.
2. THIS DETAIL SHALL BE APPLICABLE TO MAIN SWITCHBOARD, FLOOR MOUNTED DRY TYPE TRANSFORMER, FLOOR MOUNTED AUTOMATIC TRANSFER SWITCHES, COMMUNICATION EQUIPMENT RACKS AND OTHER FLOOR MOUNTED ELECTRICAL EQUIPMENT EXCEEDING 200 LBS IN WEIGHT.

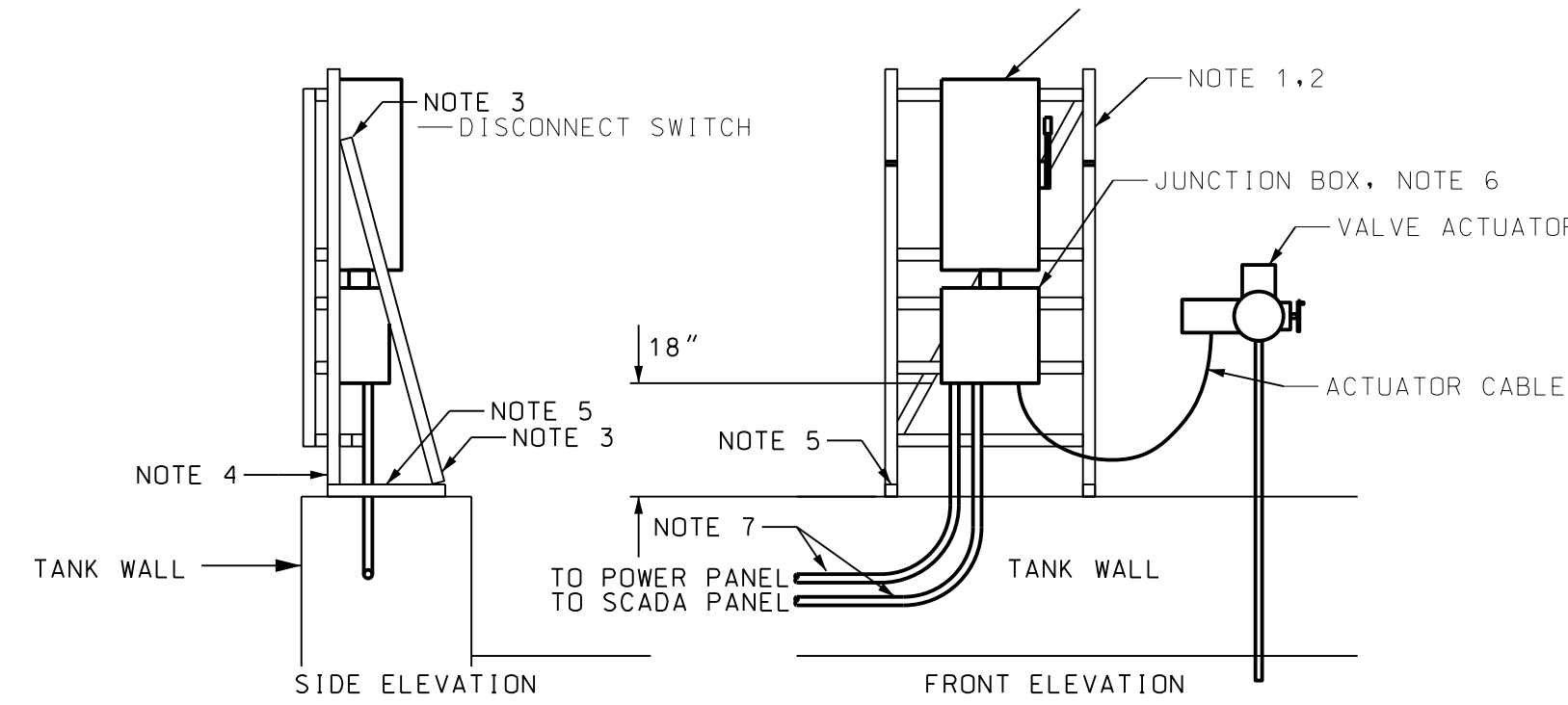
5 ELECTRICAL EQUIPMENT HOUSEKEEPING BASE
E0.2 N.T.S.



8 RECEPTACLE DETAIL
E0.2 N.T.S.



2 EQUIPMENT RACK
E0.2 N.T.S.



NOTES: 480V VALVE ACTUATOR DISCONNECT DETAIL

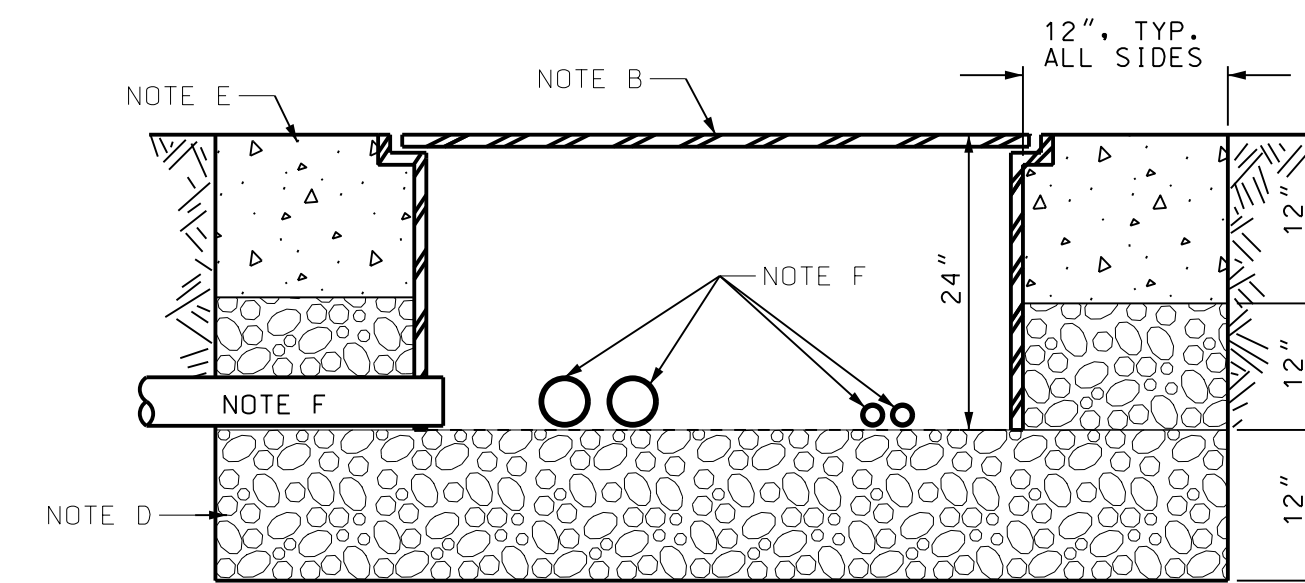
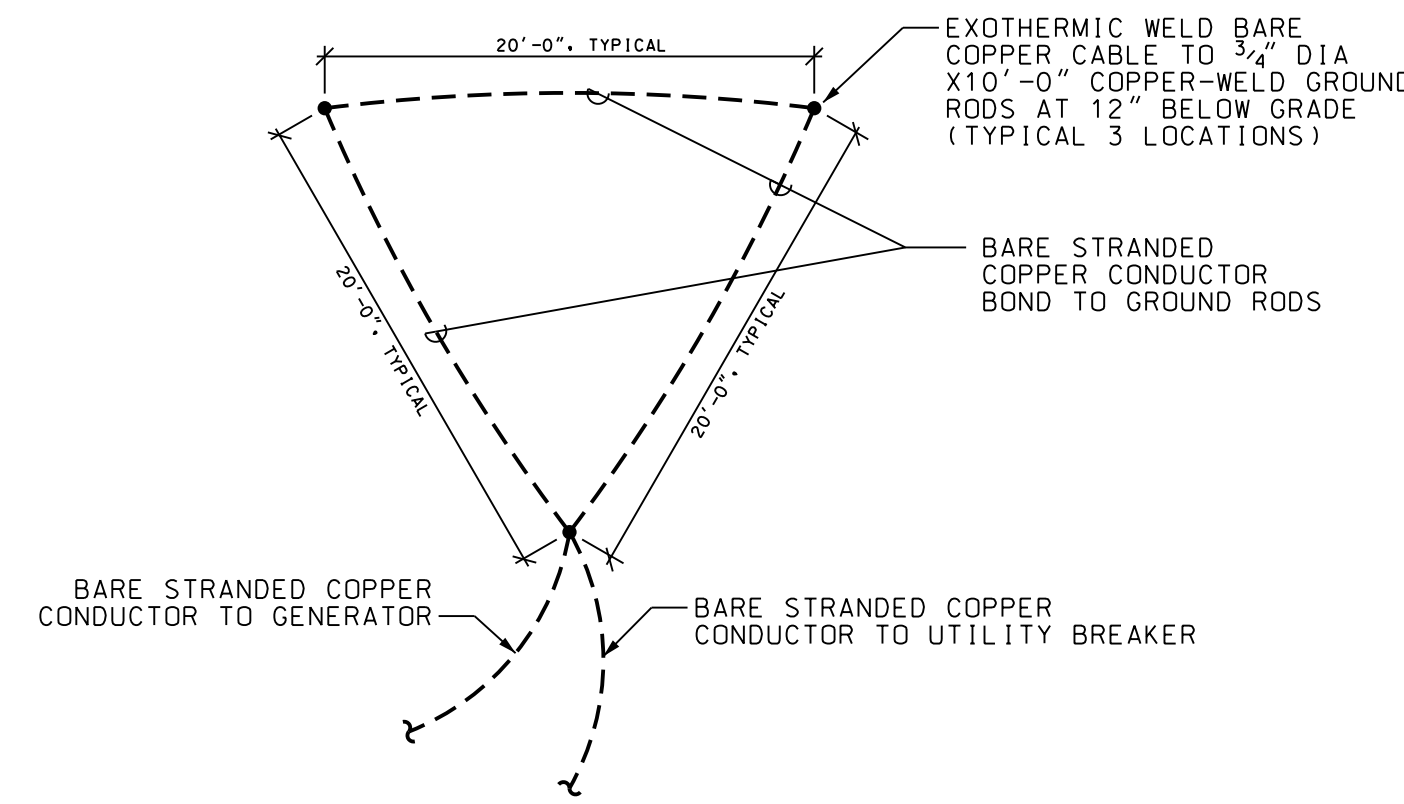
1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B335 FOUR-HOLE ADJUSTABLE HINGE, FOUR LOCATIONS.
4. B-LINE B104 FOUR-HOLE CORNER ANGLE.
5. PROVIDE FOUR RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE. PROVIDE SWW1236, 1/2" X 3 3/4" ANCHOR.
6. JUNCTION BOX SHALL HAVE POWER TERMINAL BLOCK AND TERMINAL STRIP AS REQUIRED FOR TERMINATION OF ACTUATOR CABLE CONDUCTORS. A CORD GRIP AND KELLUM GRIP CABLE SUPPORT SHALL BE PROVIDED FOR THE MOTOR CABLE. FIELD COORDINATE REQUIRED TERMINAL WITH EQUIPMENT PROVIDED. PROVIDE SINGLE EYE, CLOSED MESH KELLUM, FIELD COORDINATE WITH CABLE FURNISHED BY OTHERS.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

6 480V VALVE ACTUATOR DISCONNECT DETAIL
E0.2 N.T.S.

NOTES: RECEPTACLE DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B278 STAINLESS STEEL POST BASE FOR B22, TWO PER ASSEMBLY.
4. PROVIDE SIX RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE. PROVIDE SWW1236, 1/2" X 3 3/4" ANCHOR.
5. RECEPTACLE OUTLET BOX SHALL BE A CROUSE-HINDS FDS2SS, STAINLESS STEEL DEVICE BOX WITH TWO 3/4" CONDUIT HUBS.
6. RECEPTACLE OUTLET WEATHERPROOF COVER SHALL BE A CALBRITE STAINLESS STEEL 1-GANG DEEP LID WEATHERPROOF COVER, S60000FVCD.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO OUTLET BOX, PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

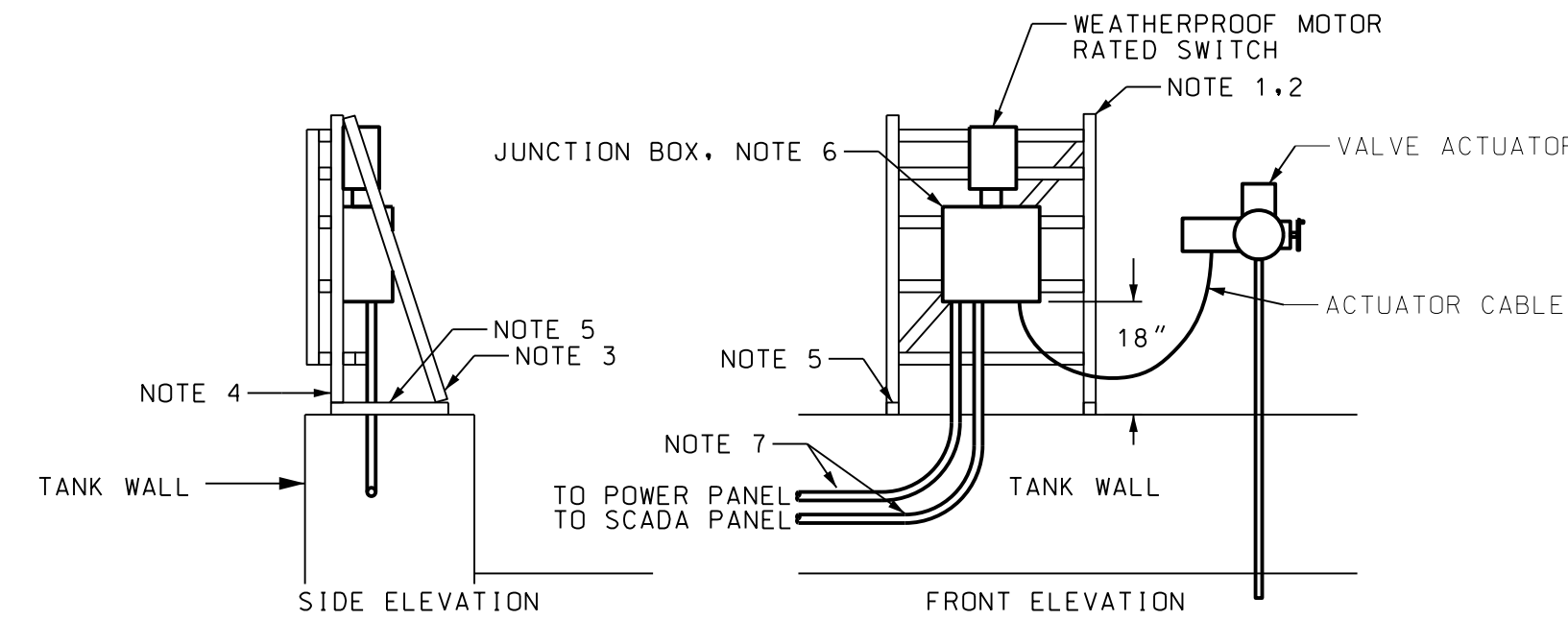
3 SECONDARY ELECTRICAL GROUNDING
E0.2 N.T.S.



NOTES: JUNCTION BOX - FLUSH WITH FINISHED GRADE

- A. JUNCTION BOXES SHALL BE QUAZITE POLYMER CONCRETE TYPE "PG" OPEN BOTTOM, OR EQUIVALENT BY OLD CASTLE OR PENCEL.
- B. THE COVER SHALL BE TIER 22 RATED, LOGO - "ELECTRIC".
- C. BOX DIMENSIONS SHALL BE AS NOTED ON THE DRAWINGS.
- D. PROVIDE A BASE OF CRUSHED STONE, 12" DEEP AND EXTENDING 12" BEYOND THE BOX ON ALL SIDES.
- E. PROVIDE A CONCRETE SUPPORT AROUND THE BOX, 12" WIDE AND 12" DEEP, ALL SIDES.
- F. CONDUIT ENTRY SHALL BE THROUGH THE SIDE WALL AT THE BOTTOM BELOW THE CONCRETE OR UP THROUGH THE BOTTOM.
- G. FOR ALL CONDUCTORS: PROVIDE PERMANENT TAGS IDENTIFYING ALL CABLES.

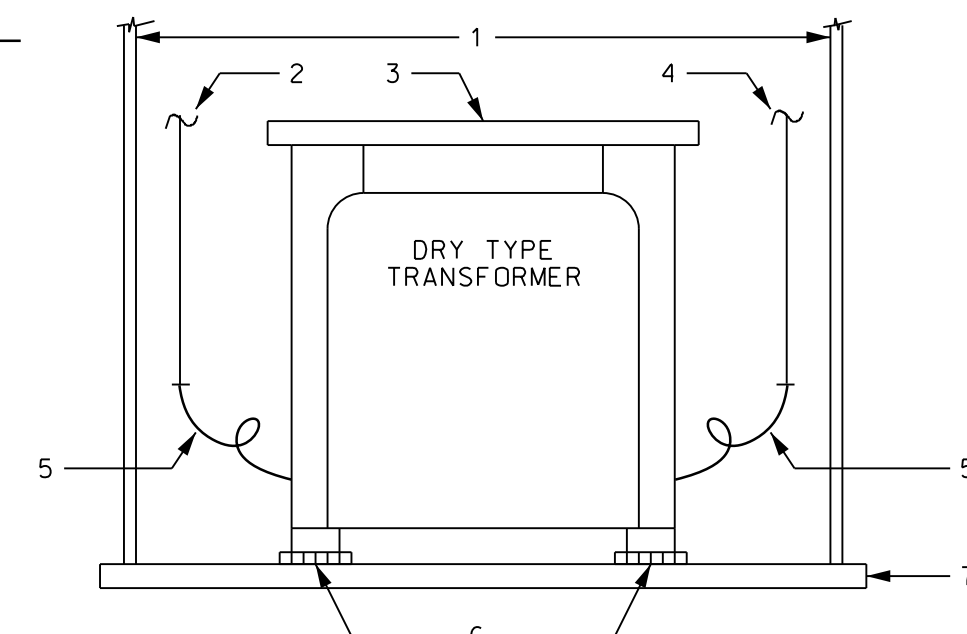
4 JUNCTION BOX - FLUSH WITH FINISHED GRADE
E0.2 N.T.S.



NOTES: 120V VALVE ACTUATOR DISCONNECT DETAIL

1. ALL CHANNEL, FASTENERS, ACCESSORIES, ETC. SHALL BE 304 STAINLESS STEEL, MINIMUM. PROVIDE PRODUCTS OF B-LINE, UNISTRUT OR POWERSTRUT.
2. 12GA, 304 STAINLESS STEEL CHANNEL, 1 5/8" X 1 5/8", B-LINE B22 SERIES OR EQUAL.
3. B-LINE B335 FOUR-HOLE ADJUSTABLE HINGE, FOUR LOCATIONS.
4. B-LINE B104 FOUR-HOLE CORNER ANGLE.
5. PROVIDE FOUR RED HEAD TRUBOLT TYPE 316 ANCHORS TO SECURE FRAME TO STRUCTURE. PROVIDE SWW1236, 1/2" X 3 3/4" ANCHOR.
6. JUNCTION BOX SHALL HAVE POWER TERMINAL BLOCK AND TERMINAL STRIP AS REQUIRED FOR TERMINATION OF ACTUATOR CABLE CONDUCTORS. A CORD GRIP AND KELLUM GRIP CABLE SUPPORT SHALL BE PROVIDED FOR THE MOTOR CABLE. FIELD COORDINATE REQUIRED TERMINAL WITH EQUIPMENT PROVIDED. PROVIDE SINGLE EYE, CLOSED MESH KELLUM, FIELD COORDINATE WITH CABLE FURNISHED BY OTHERS.
7. STAINLESS STEEL CONDUIT FROM WITHIN CONCRETE TO JUNCTION BOX. PVC WITHIN CONCRETE. NO FITTINGS ALLOWED 18" OR LESS ABOVE TANK WALL.

7 120V VALVE ACTUATOR DISCONNECT DETAIL
E0.2 N.T.S.



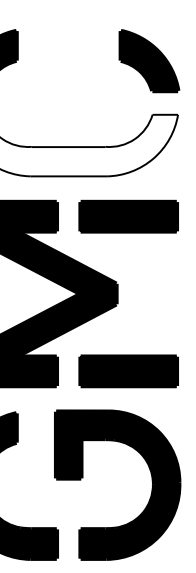
9 SUSPENDED TRANSFORMER INSTALLATION DETAIL
E0.2 N.T.S.

1. 3/8" THREADED RODS - FOUR REQUIRED.
2. PRIMARY (CONDUIT ATTACHED TO WALL).
3. MAINTAIN 12" CLEARANCE BETWEEN TOP OF TRANSFORMER AND CEILING OR OTHER OBSTRUCTION. BOLT TRANSFORMER TO CHANNEL.
4. SECONDARY (CONDUIT ATTACHED TO WALL).
5. FLEXIBLE CONDUIT MAX. LENGTH - 18".
6. 1" THICK LAMINATED CORK & NEOPRENE VIBRATION ISOLATING PAD.
7. 3"x1 1/2", 12 GAUGE CHANNEL, OPEN UP.

DETAIL SHEETS

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
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E-002

LIGHTING FIXTURE SCHEDULE - NOTE LF-1,2,5

NOTE: LAMPS ARE SPECIFIED BY LAMP ORDERING CODE NOT ANSI CODE NUMBER. SINGLE NUMERAL PREFIX INDICATES NUMBER OF LAMPS IN FIXTURE (ex: 3-F40DW). IF NO PREFIX IS INDICATED, THE FIXTURE HAS ONE LAMP (ex: 150A-19). STEM LENGTH FOR FIXTURES AND MOUNTING HEIGHTS FOR WALL FIXTURES ARE INDICATED IN THE LIGHTING FIXTURE NOTES. MOUNTING ABBREVIATIONS: R - RECESSED, S - SURFACE, W - WALL, P - PENDANT, C - SUSPENDED.

TYPE	DESCRIPTION	LED	MOUNTING	NOTES
A	2 X 4 LED FLAT PANEL FIXTURE			
	METALUX 24FP6440C-FPEQ	6800L LED 4000K 62W	R	LF-2,6
B	SURFACE MOUNTED WRAPAROUND FIXTURE 10% DIMMING DRIVER			
	METALUX 4WSNLEDL464HLUNVCDL840SCS	6400L LED 4000K 73W	P	LF-2,6
C	4 FT LED STRIP FIXTURE			
	METALUX 4SNLEDL0549LNL840CD1	4900L LED 4000K 28W	S	LF-2
F	EXTERIOR WALL PACK W/ INTEGRAL BATTERIES			
	LUMARK AXCS4ARLPC	5800L LED 4000K 44W	W	LF-2,8
H	LED SURFACE MOUNTED FIXTURE			
	LUMARK CLCSLED86SMUNV	11,500L LED 4000K 92W	S	LF-2
K	RECESSED LED SHOWER LIGHT			
	PORTFOLIO LDS4B150010EU4B1020404LBSOL1	1500L LED 4000K 15W	R	LF-2,7
L	SURFACE MTD LED WRAPAROUND FIXTURE			
	METALUX 4NLW4040C	4600L LED 4000K 38W	S/P	LF-2,6
M	LED ROUND HIGH BAY			
	METALUX UHB-18-UNV-L840-CD	4000K LED 153W	P (HOOK)	LF-9
N	LED VAPORTITE			
	METALUX 4VT2-LD5-6-DR100-W-UNV-L840-CD1-WL-SSL-VT2-SS-MBK	LED	WALL SURFACE	LF-10
XA	SINGLE FACE EXIT LIGHT			
	SURELITES APC71R	LED	W/C	LF-3,4
XB	DOUBLE FACE EXIT LIGHT			
	SURELITES APC72R	LED	W/C	LF-3,4

NOTES: LIGHTING FIXTURE SCHEDULE

- LF-1. FIXTURES SPECIFIED INDICATE LEVEL OF QUALITY OF FIXTURES. SIMILAR FIXTURES ARE ACCEPTABLE AFTER REVIEW AND APPROVED BY ARCHITECT.
- LF-2. ALL LED LIGHTS TO BE RATED FOR 4000* K COLOR.
- LF-3. PROVIDE BATTERY CAPACITY IN EXIT LIGHT FOR INTEGRAL LIGHTS PLUS REMOTE HEADS SHOWN.
- LF-4. PROVIDE ARROWS AS SHOWN ON DRAWINGS.
- LF-5. PROVIDE ALL DLC RATED FIXTURES CAPABLE OF OBTAINING GA POWER REBATES.
- LF-6. PROVIDE FIXTURES WITH INTEGRAL BATTERY PACKS WHERE INDICATED ON DRAWINGS.
- LF-7. FIXTURES TO HAVE DAMP LABEL.
- LF-8. PROVIDE INTEGRAL PHOTOCCELL AND EMERGENCY BATTERY PACK.
- LF-9. NINE TYPE M FIXTURES SHALL BE INSTALLED IN THE COMPOSTING BUILDING AROUND THE NEW SOLIDS HANDLING EQUIPMENT. INSTALL AT EXISTING FIXTURE LOCATIONS; MODIFY EXISTING OUTLET FOR CLOSE TO CEILING INSTALLATION USING FIXTURE HOOK. BOTTOM OF FIXTURE SHALL NOT EXCEED 12" FROM BOX.
- LF10. WALL MOUNT FIXTURE TO DISK FILTER PIT BELOW UPPER GRATING.

SCHEDULE PANELBOARD AA (SECTION 1)

CIR #	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA			MOUNTING SURFACE	TRIP/POLE	CIR #	
				PH. A	PH. B	PH. C				
1	20/1	0.20	RECEPTACLES	0.4			RECEPTACLES	0.20	20/1	2
3	20/1	0.60	RECEPTACLES		1.4		OFFICE	0.80	20/1	4
5	20/1	0.90	RECEPTACLES			1.7	OFFICE	0.80	20/1	6
7	20/1	0.40	RECEPTACLES	0.6			OFFICE	0.20	20/1	8
9	20/1	0.60	RECEPTACLES		0.6		SPARE		20/1	10
11	20/1	0.60	RECEPTACLES			0.6	SPARE		20/1	12
13	20/1	0.60	RECEPTACLES	0.6			SPARE		20/1	14
15	20/1	0.40	RECEPTACLES		0.4		SPARE		20/1	16
17	20/1	0.60	RECEPTACLES			0.6	SPARE		20/1	18
19	20/1	0.90	RECEPTACLES	0.9			SPARE		20/1	20
21	20/1		SPARE		0.0		SPARE		20/1	22
23	20/1		SPARE			0.0	SPARE		20/1	24
25	20/1	1.20	FUME HOOD - 6	1.2			SPARE		20/1	26
27	20/1	1.60	WATER BATH - 5		1.6		SPARE		20/1	28
29	20/1/GF	1.20	DISHWASHER - 4			1.2	SPARE		20/1	30
31	20/2	1.00	OVEN - 3	1.0			SPARE		20/1	32
33	-	1.00			1.0		SPARE		20/1	34
35	30/2	2.00	MUFFLE FURNACE - 2			2.0	SPARE		20/1	36
37	-	2.00		2.9			LAB RECEPTACLES	0.90	20/1	38
39	20/2	1.20	AUTOCLAVE - 1		1.8		LAB RECEPTACLES	0.60	20/1	40
41	-	1.20				1.8	LAB RECEPTACLES	0.60	20/1	42
MIN. BREAKER AIC:				10,000 AIC	7.6	6.8	7.9	TOTAL CONNECTED LOAD		22.3
NOTES:					7.6	6.8	7.9	TOTAL DEMAND LOAD		22.3

SCHEDULE PANELBOARD AA (SECTION 2)

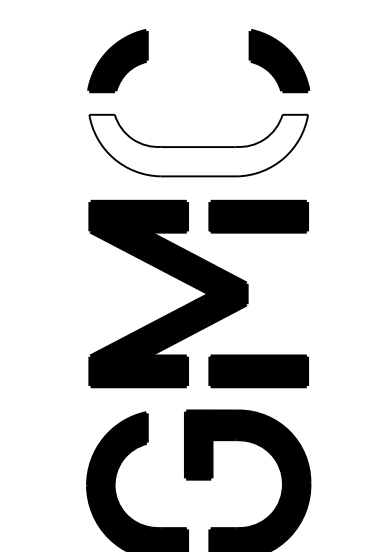
CIR #	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA			MOUNTING SURFACE	TRIP/POLE	CIR #	
				PH. A	PH. B	PH. C				
43	20/1	0.80	RECEPTACLES	1.7			LAB RECEPTACLES	0.90	20/1	44
45	20/1	0.80	RECEPTACLES		1.4		LAB RECEPTACLES	0.60	20/1	46
47	20/1		SPARE			0.6	LAB RECEPTACLES	0.60	20/1	48
49	20/1		SPARE	0.0			SPARE		20/1	50
51	20/1		SPARE		0.0		SPARE		20/1	52
53	20/1		SPARE			0.0	SPARE		20/1	54
55	15/2	0.10	HEADER	0.1			SPARE		20/1	56
57	-	0.10			0.1		SPARE		20/1	58
59	15/2	0.40	IHP-1, 2, 3, 4, 5, 6			0.4	SPARE		20/1	60
61	-	0.40		1.6			FUME HOOD - 6	1.20	20/1	62
63	15/2	0.40	IHP-1, 3, 5		2.0		WATER BATH - 5	1.60	20/1	64
65	-	0.40				1.6	DISHWASHER - 4	1.20	20/1/GF	66
67	15/2	0.40	IHP-2, 4, 6	1.4			OVEN - 3	1.00	20/2	68
69	-	0.40			1.4			1.00	-	70
71	20/2		SPARE			2.0	MUFFLE FURNACE - 2	2.00	30/2	72
73	-			2.0				2.00	-	74
75	30/2		SPARE		1.2		AUTOCLAVE - 1	1.20	20/2	76
77	-					1.2		1.20	-	78
79	/3		SPACE	0.0			SPACE		/3	80
81	-				0.0				-	82
83	-					0.0			-	84
MIN. BREAKER AIC:				10,000 AIC	14.4	12.9	13.7	TOTAL CONNECTED LOAD		41
NOTES:					14.2	12.7	13.7	TOTAL DEMAND LOAD		40.52

SCHEDULE PANELBOARD AB

CIR #	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA			MOUNTING SURFACE	TRIP/POLE	CIR #	
				PH. A	PH. B	PH. C				
1	20/1	0.60	RECEPTACLES	1.4			RECEPTACLES	0.80	20/1	2
3	20/1	0.60	RECEPTACLES		1.4		RECEPTACLES	0.80	20/1	4
5	20/1	0.80	RECEPTACLES			1.6	RECEPTACLES	0.80	20/1	6
7	20/1	0.80	RECEPTACLES	1.6			RECEPTACLES	0.80	20/1	8
9	20/1	0.90	RECEPTACLES		1.7		RECEPTACLES	0.80	20/1	10
11	20/1	0.90	RECEPTACLES			1.7	WATER COOLER	0.80	20/1	12
13	20/1	1.50	RECEPTACLES	2.5			FAN	1.00	20/1	14
15	20/1	1.50	RECEPTACLES		1.6		F-4	0.10	20/1	16
17	20/1	0.20	RECEPTACLES			0.2	SPARE		20/1	18
19	20/1	0.80	RECEPTACLES	0.8			SPARE		20/1	20
21	20/1	0.40	EXT. RECEPTACLES		0.4		SPARE		20/1	22
23	20/1	0.40	EXT. RECEPTACLES			0.4	SPARE		20/1	24
25	20/1		SPARE	0.0			SPARE		20/1	26
27	20/1		SPARE		0.0		SPARE		20/1	28
29	20/1		SPARE			0.0	SPARE		20/1	30
31	20/1		SPARE	0.0			SPARE		20/1	32
33	20/1		SPARE		0.0		SPARE		20/1	34
35	40/2	2.40	OHP-2			2.4	SPARE		20/1	36
37	-	2.40		2.4			SPARE		20/1	38
39	15/2	0.50	IHP-2-5, 6, 7, 10, 11, 12,		0.5		SPARE		20/1	40
41	-	0.50	17, 18, 19, 21			0.5	SPARE		20/1	42
MIN. BREAKER AIC:				10,000 AIC	8.7	5.6	6.8	TOTAL CONNECTED LOAD		21.1
NOTES:					6.8	4.1	5.6	TOTAL DEMAND LOAD		16.51

SCHEDULE PANELBOARD AC

CIR #	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA			MOUNTING SURFACE	TRIP/POLE	CIR #	
				PH. A	PH. B	PH. C				
1	20/1	0.60	RECEPTACLES	1.4			RECEPTACLES	0.80	20/1	2
3	20/1	0.60	RECEPTACLES		1.4		RECEPTACLES	0.80	20/1	4
5	20/1	0.80	RECEPTACLES			1.6	RECEPTACLES	0.80	20/1	6
7	20/1	0.60	RECEPTACLES	1.4			RECEPTACLES	0.80	20/1	8
9	20/1	0.90	RECEPTACLES		1.7		RECEPTACLES	0.80	20/1	10
11	20/1	0.90	RECEPTACLES			1.7	RECEPTACLES	0.80	20/1	12
13	20/1	1.50	RECEPTACLES	2.5			FANS	1.00	20/1	14
15	20/1	1.50	RECEPTACLES		2.1		EF F-3	0.60	20/1	16
17	20/1		SPARE			0.0	SPARE		20/1	18
19	20/1	0.80	RECEPTACLES	0.8			SPARE		20/1	20
21	20/1		SPARE		0.0		SPARE		20/1	22
23	20/1		SPARE		0.0		SPARE		20/1	24
25	20/1		SPARE	0.0			SPARE		20/1	26
27	20/1		SPARE		0.0		SPARE		20/1	28
29	20/1		SPARE			0.0	SPARE		20/1	30
31	20/1		SPARE	0.0			SPARE		20/1	32
33	20/1		SPARE		0.0		SPARE		20/1	34
35	40/2	2.40	OHP-1			2.4	SPARE		20/1	36
37	-	2.40		2.4			SPARE		20/1	38
39	15/2	0.50	IHP-2-1, 2, 3, 4, 9, 13, 14,		0.5		SPARE		20/1	40
41	-	0.50	15, 16, 20			0.5	SPARE		20/1	42
MIN. BREAKER AIC:				10,000 AIC	8.5	5.7	6.2	TOTAL CONNECTED LOAD		20.4
NOTES:					6.0	4.0	4.3	TOTAL DEMAND LOAD		14.28



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2019 WPCF REHABILITATION
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BGJWSC Project No. 906
GMC Project #CSAV190007


E-003

LIGHTING FIXTURE & PANEL SCHEDULES

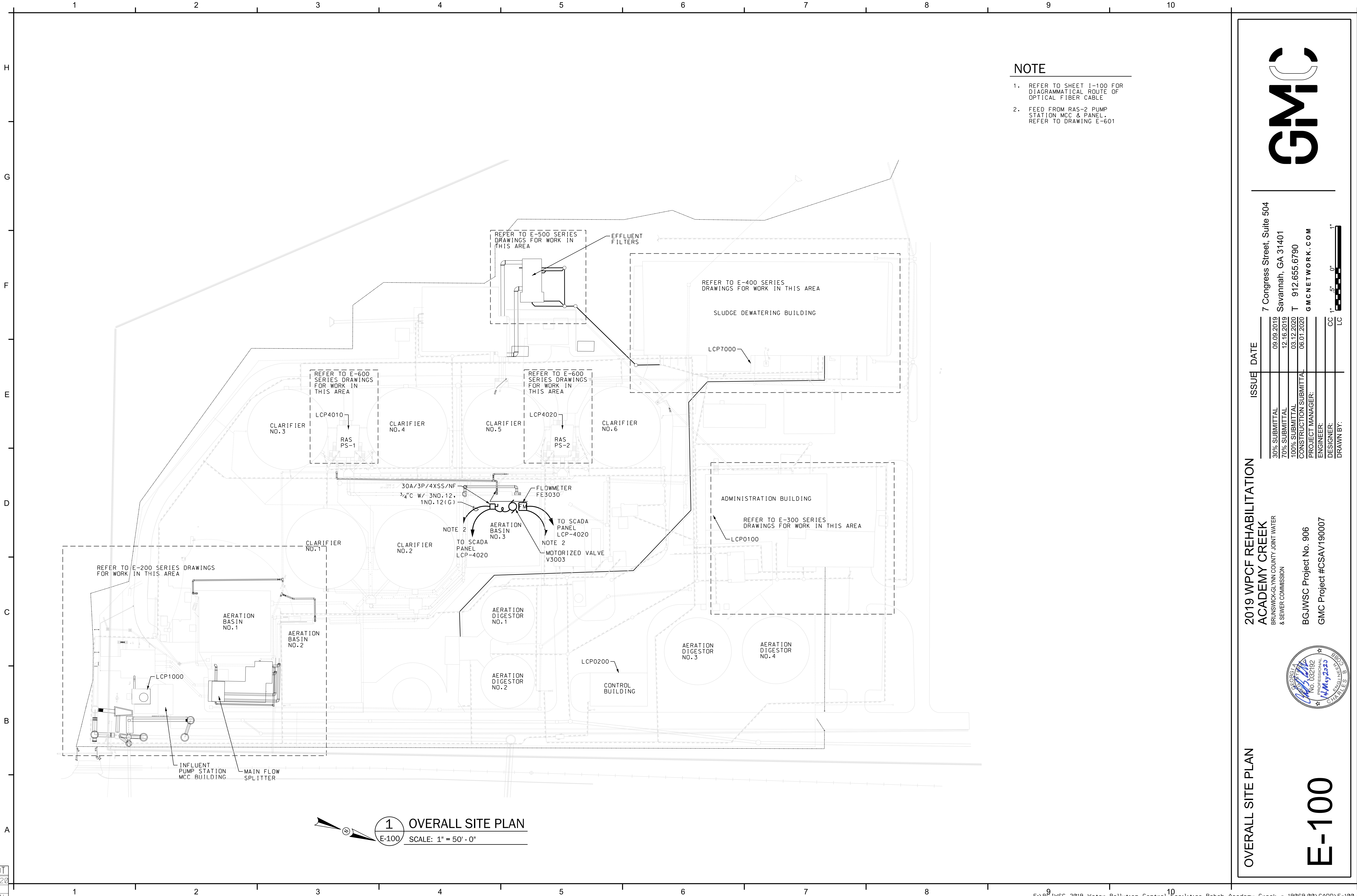
ISSUE DATE

30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

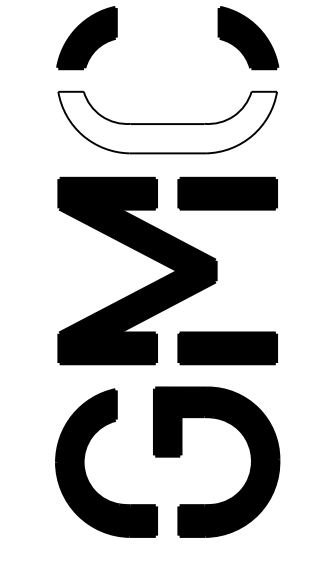
PROJECT MANAGER: _____
ENGINEER: _____
DESIGNER: _____
DRAWN BY: _____



CADD PLOT
14-MAY-2020
11:29
ALAWSON



- NOTE**
1. REFER TO SHEET 1-100 FOR DIAGRAMMATICAL ROUTE OF OPTICAL FIBER CABLE
 2. FEED FROM RAS-2 PUMP STATION MCC & PANEL. REFER TO DRAWING E-601



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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
BGJWSC Project No. 906
GMC Project #CSAV190007

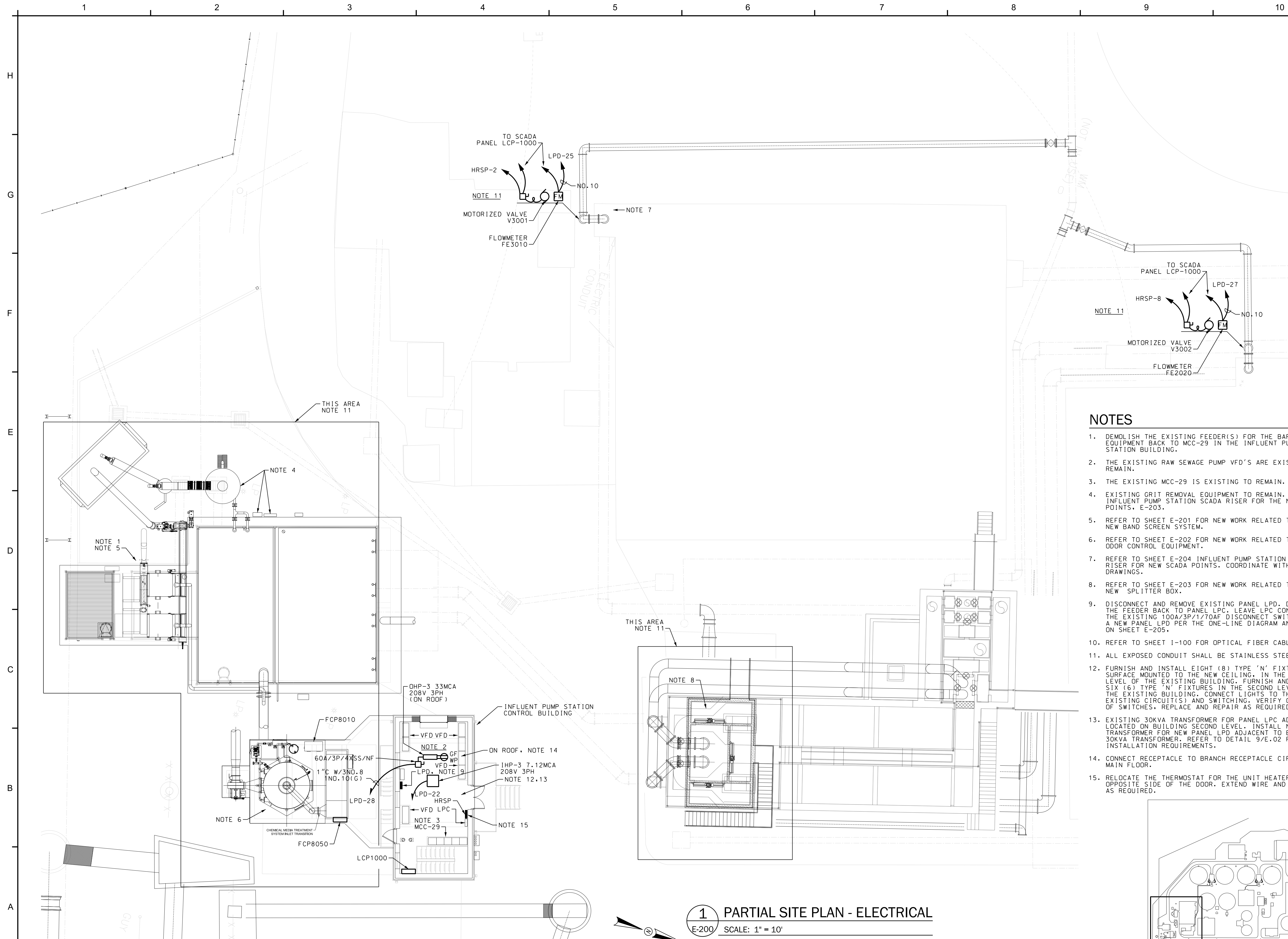


OVERALL SITE PLAN

E-100

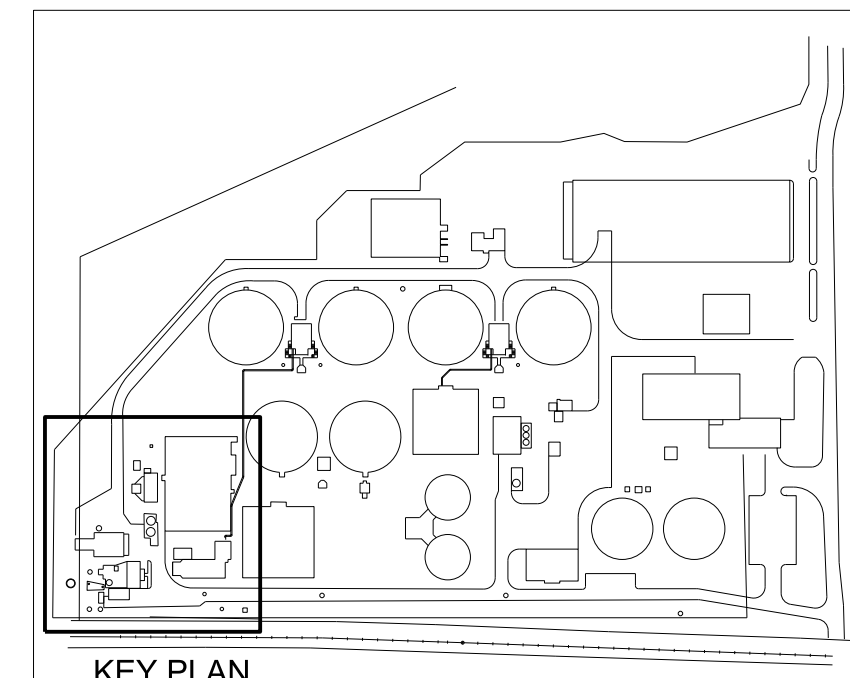
1 OVERALL SITE PLAN
E-100 SCALE: 1" = 50' - 0"

CADD PLOT
14-MAY-2020
11:33
ALAWSON



NOTES

1. DEMOLISH THE EXISTING FEEDER(S) FOR THE BAR SCREEN EQUIPMENT BACK TO MCC-29 IN THE INFLUENT PUMP STATION BUILDING.
2. THE EXISTING RAW SEWAGE PUMP VFD'S ARE EXISTING TO REMAIN.
3. THE EXISTING MCC-29 IS EXISTING TO REMAIN.
4. EXISTING GRIT REMOVAL EQUIPMENT TO REMAIN. REFER TO INFLUENT PUMP STATION SCADA RISER FOR THE NEW SCADA POINTS, E-203.
5. REFER TO SHEET E-201 FOR NEW WORK RELATED TO THE NEW BAND SCREEN SYSTEM.
6. REFER TO SHEET E-202 FOR NEW WORK RELATED TO THE ODDR CONTROL EQUIPMENT.
7. REFER TO SHEET E-204 INFLUENT PUMP STATION SCADA RISER FOR NEW SCADA POINTS. COORDINATE WITH P&ID DRAWINGS.
8. REFER TO SHEET E-203 FOR NEW WORK RELATED TO THE NEW SPLITTER BOX.
9. DISCONNECT AND REMOVE EXISTING PANEL LPD, DEMOLISH THE FEEDER BACK TO PANEL LPC. LEAVE LPC CONNECTED TO THE EXISTING 100A/3P/1/70AF DISCONNECT SWITCH. PROVIDE A NEW PANEL LPD PER THE ONE-LINE DIAGRAM AND SCHEDULE ON SHEET E-205.
10. REFER TO SHEET I-100 FOR OPTICAL FIBER CABLE ROUTE.
11. ALL EXPOSED CONDUIT SHALL BE STAINLESS STEEL.
12. FURNISH AND INSTALL EIGHT (8) TYPE 'N' FIXTURES, SURFACE MOUNTED TO THE NEW CEILING, IN THE TOP LEVEL OF THE EXISTING BUILDING. FURNISH AND INSTALL SIX (6) TYPE 'N' FIXTURES IN THE SECOND LEVEL OF THE EXISTING BUILDING. CONNECT LIGHTS TO THE EXISTING CIRCUIT(S) AND SWITCHING. VERIFY OPERATION OF SWITCHES, REPLACE AND REPAIR AS REQUIRED.
13. EXISTING 30KVA TRANSFORMER FOR PANEL LPC ADN LPD LOCATED ON BUILDING SECOND LEVEL. INSTALL NEW TRANSFORMER FOR NEW PANEL LPD ADJACENT TO EXISTING 30KVA TRANSFORMER. REFER TO DETAIL 9/E.02 FOR INSTALLATION REQUIREMENTS.
14. CONNECT RECEPTACLE TO BRANCH RECEPTACLE CIRCUIT ON MAIN FLOOR.
15. RELOCATE THE THERMOSTAT FOR THE UNIT HEATER TO THE OPPOSITE SIDE OF THE DOOR. EXTEND WIRE AND CONDUIT AS REQUIRED.



1 PARTIAL SITE PLAN - ELECTRICAL
E-200 SCALE: 1" = 10'

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER
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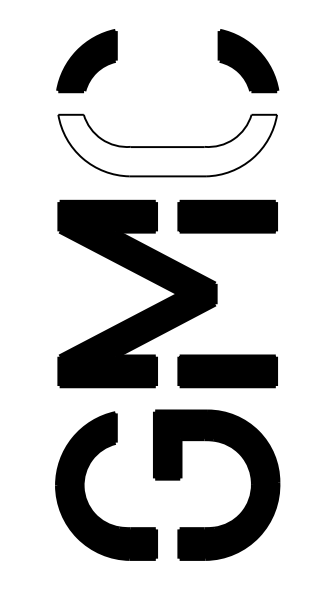
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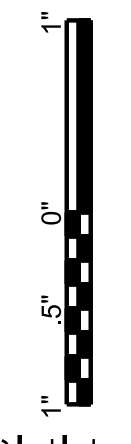
**HEADWORKS PARTIAL
SITE PLAN - ELECTRICAL**

E-200

ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
DESIGNER:	AL
DRAWN BY:	CC/AL



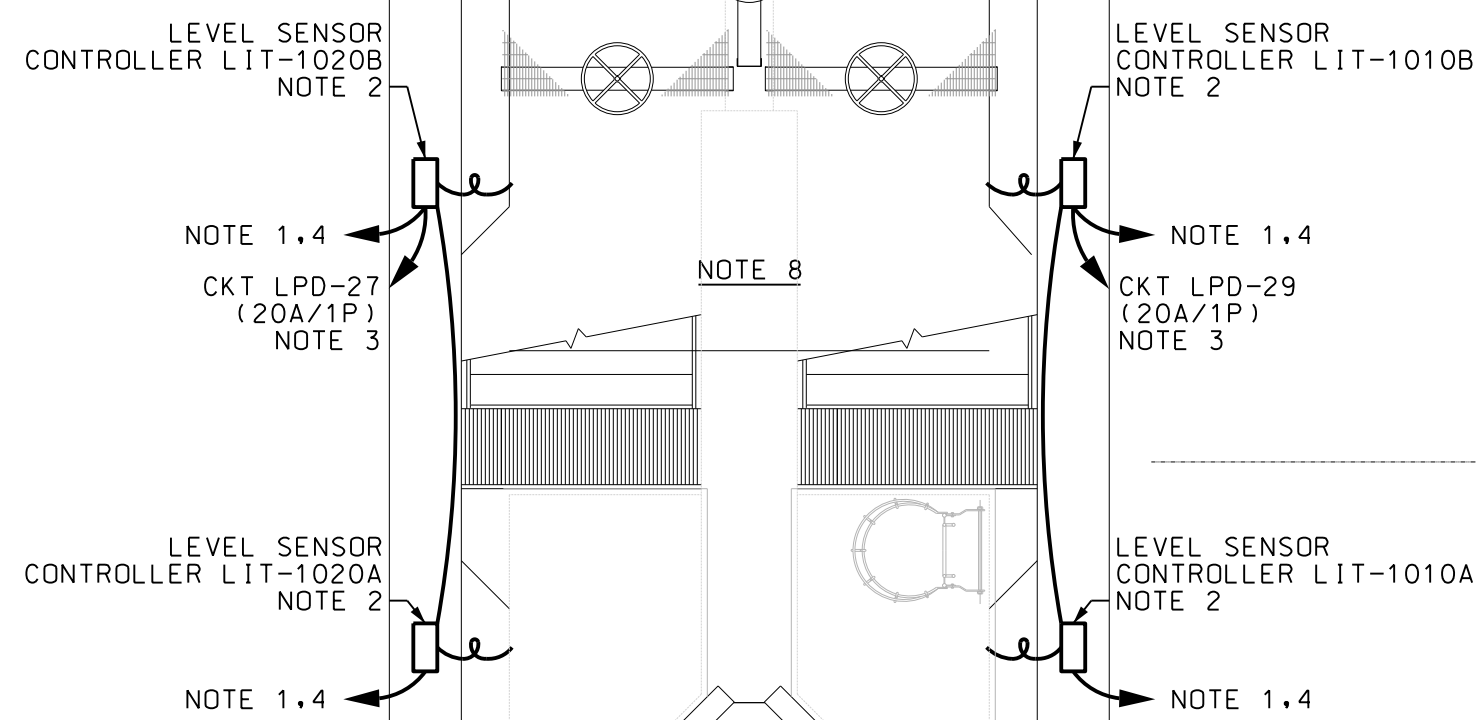
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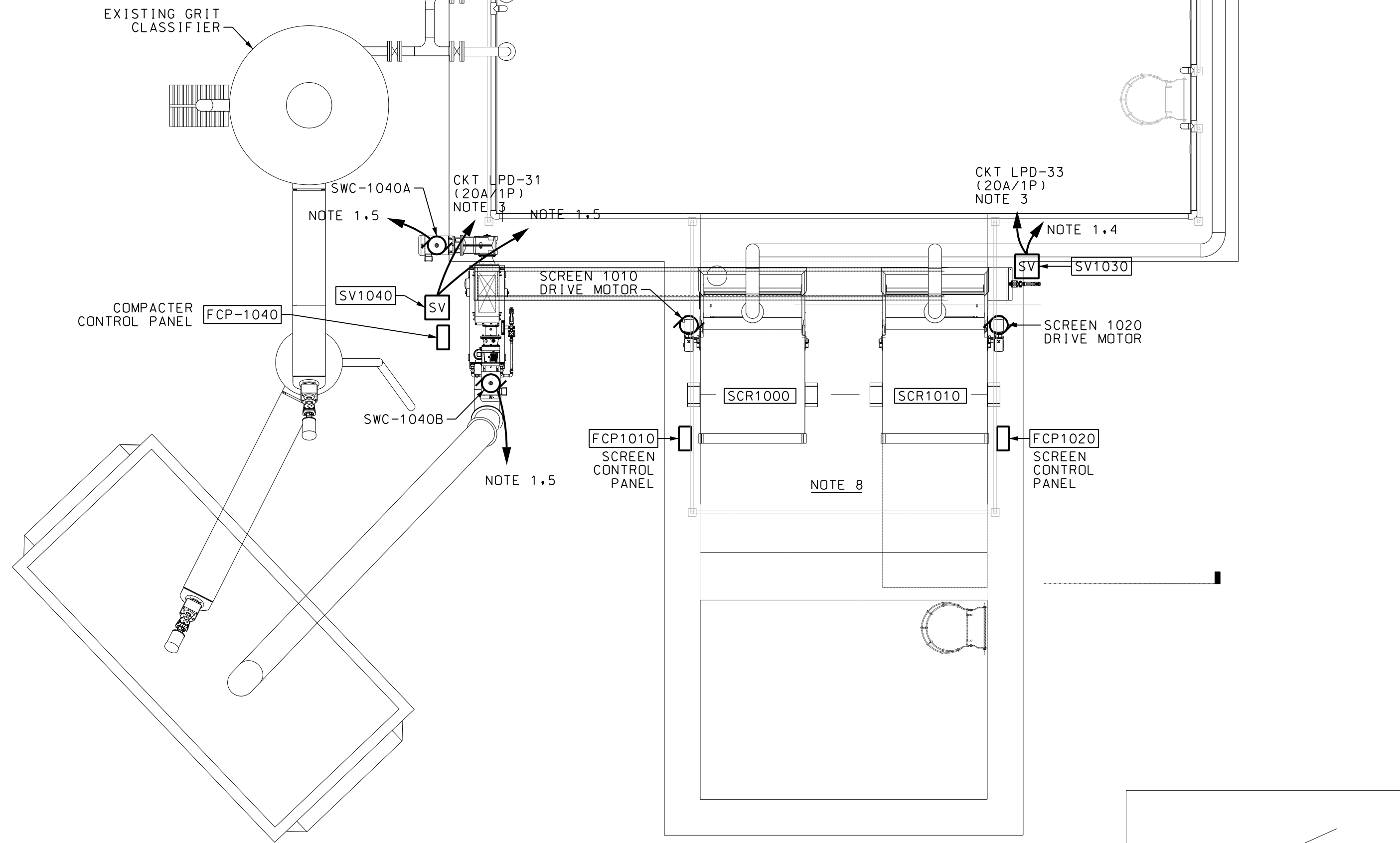
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14-MAY-2020
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NOTES

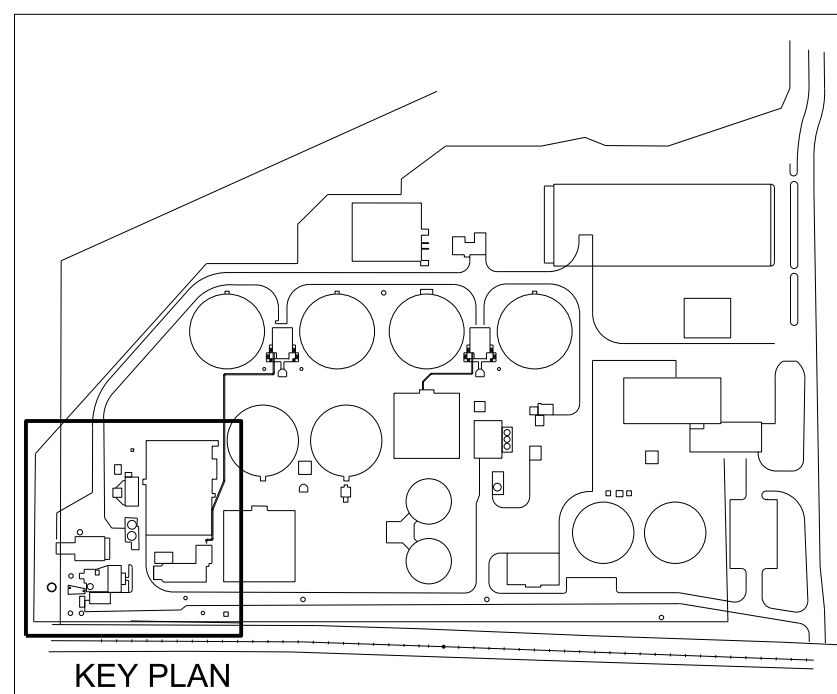
1. REFER TO SCADA RISER FOR CONDUIT AND WIRE REQUIRED.
2. PROVIDE EQUIPMENT FRAME AT UPPER LEVEL FOR MOUNTING OF CONTROLLER.
3. EXTEND CIRCUIT FROM BRANCH CIRCUIT PANEL INFLUENT PUMP STATION CONTROL BUILDING.
4. TO SCREEN CONTROL PANEL, FCP-1010
5. TO COMPACTOR CONTROL PANEL SWC-1040
6. TO GRIT SYSTEM CONTROL PANEL NO.1, LCP-110
7. TO GRIT SYSTEM CONTROL PANEL NO.2, LCP-120
8. ALL EXPOSED CONDUIT SHALL BE STAINLESS STEEL.



1 LOWER LEVEL PLAN - ELECTRICAL
E-201 SCALE: 1/4" = 1'-0"



2 UPPER LEVEL PLAN - ELECTRICAL
E-201 SCALE: 1/4" = 1'-0"



KEY PLAN

2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

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E-201

SCREEN UPPER & LOWER LEVEL PLANS - ELECTRICAL

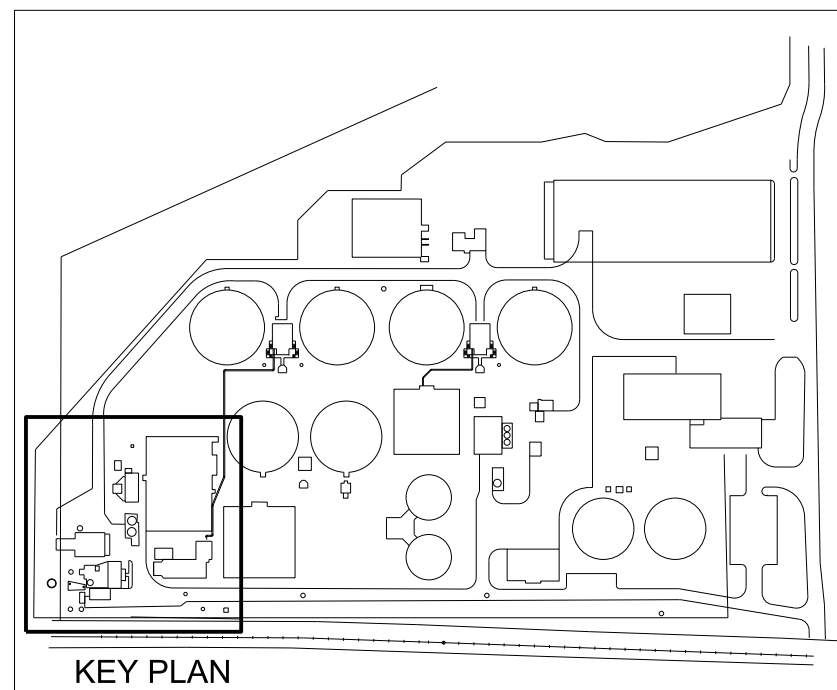
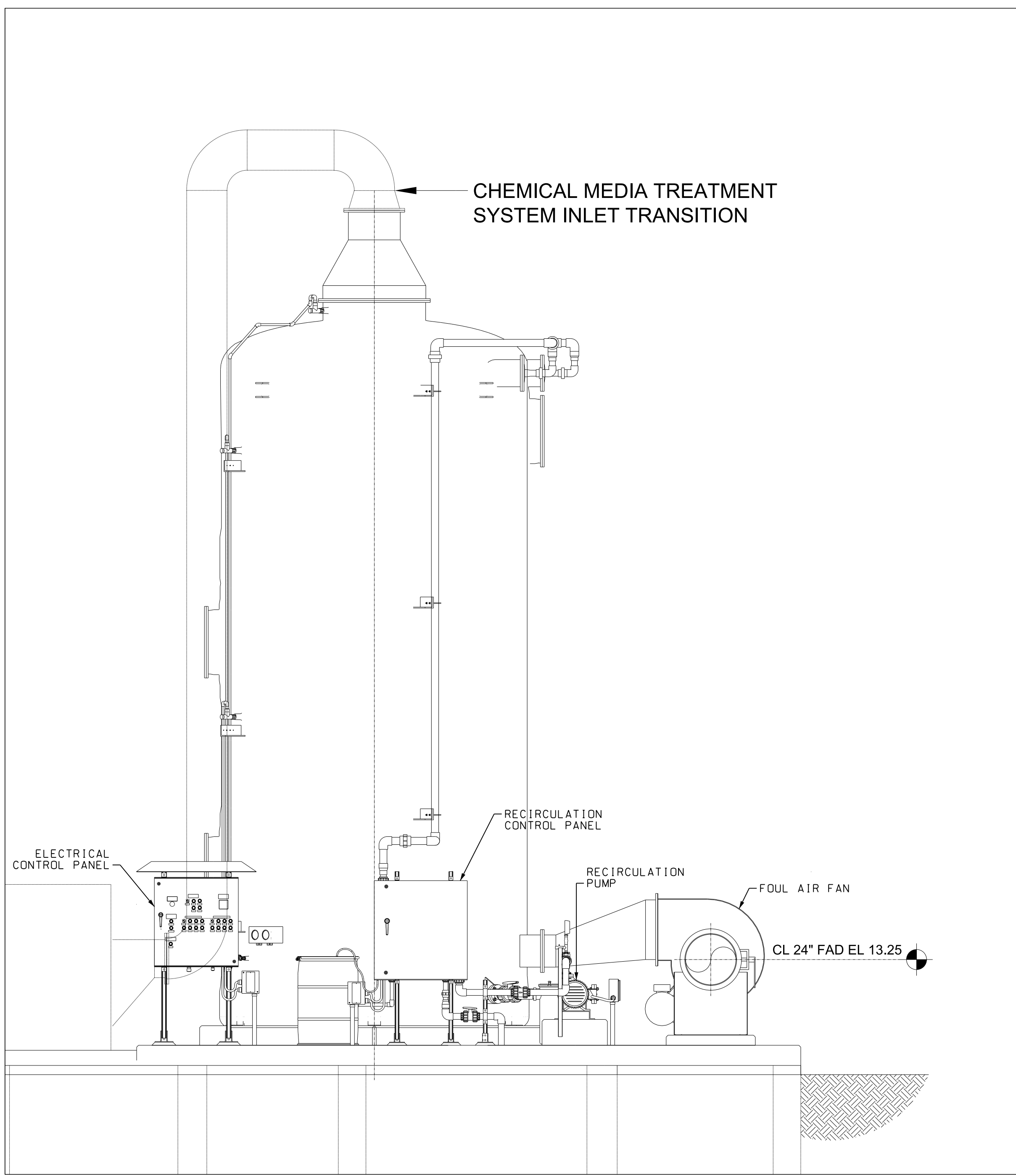
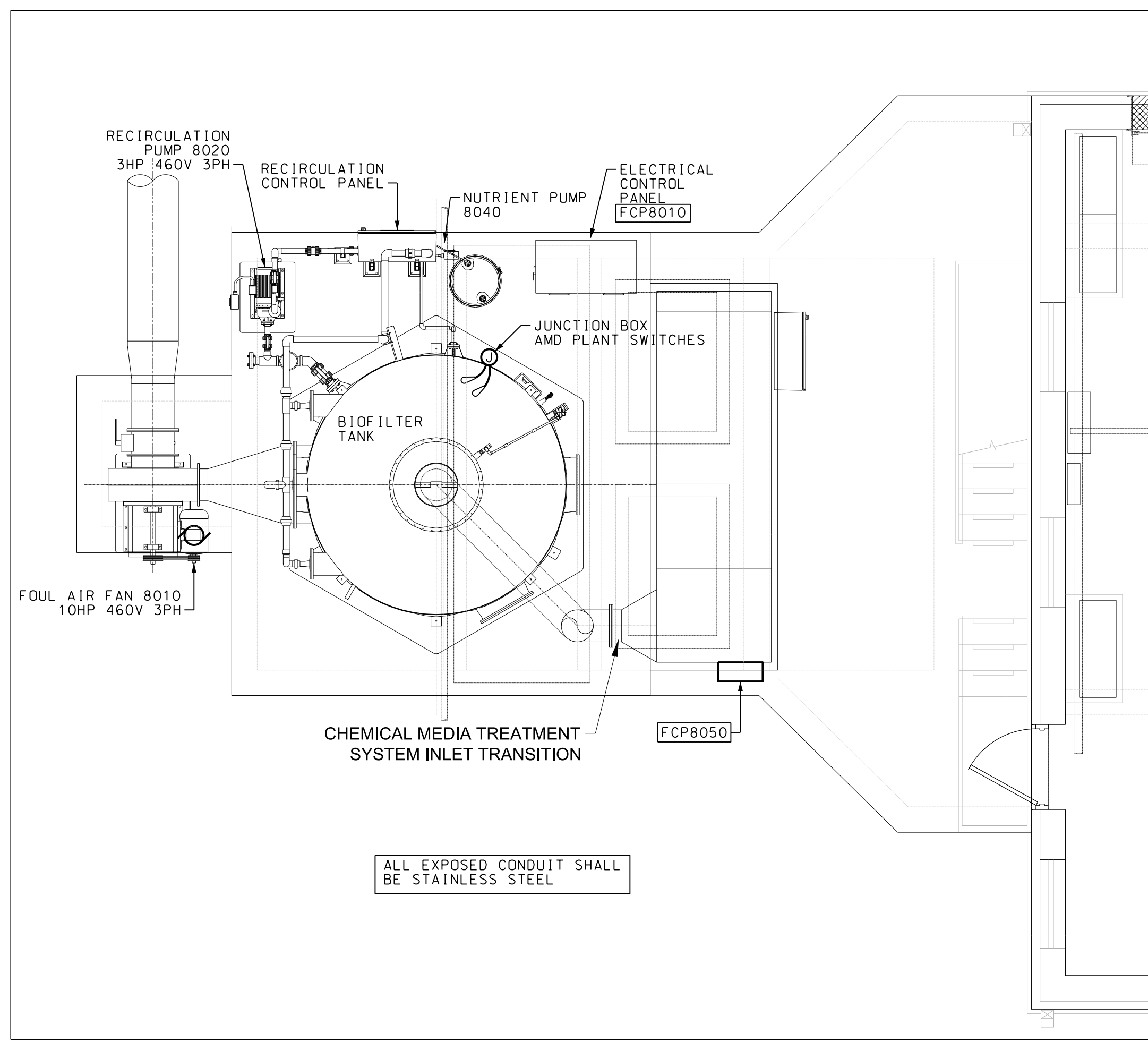
ISSUE	DATE
30% SUBMITTAL	09.09.2019
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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
DESIGNER:	AL
DRAWN BY:	CC/AL

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1" = 5' 0" 1"





1 ODOR CONTROL SYSTEM PLAN - ELECTRICAL
 E-202 SCALE: 1/4" = 1' - 0"

2 ODOR CONTROL SYSTEM PLAN - ELEVATION
 E-202 SCALE: 1/4" = 1' - 0"

2019 WPCF REHABILITATION

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ODOR CONTROL SYSTEM -
 ELECTRICAL

E-202

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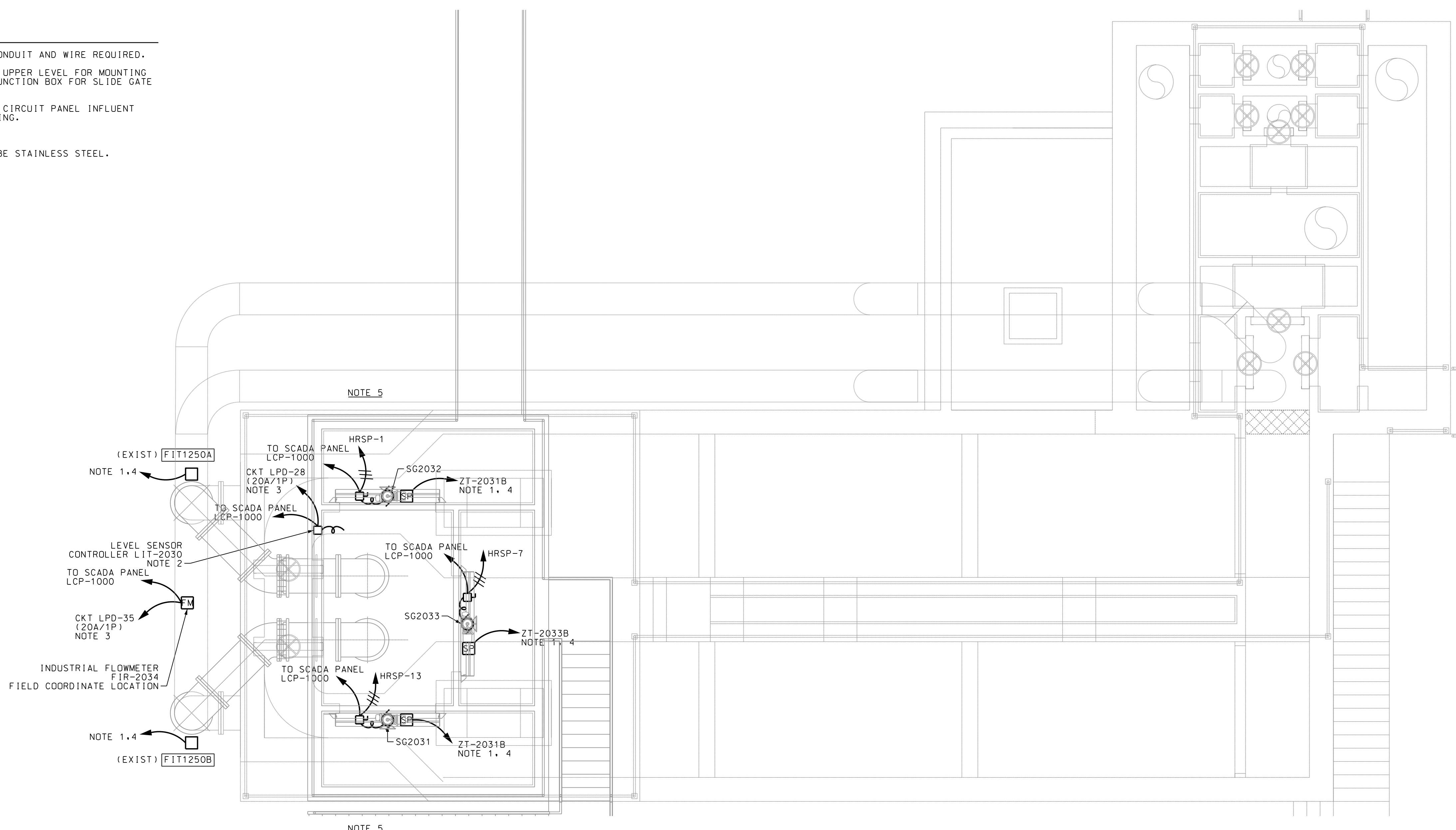
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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	AL
DESIGNER:	AL
DRAWN BY:	CC/AL

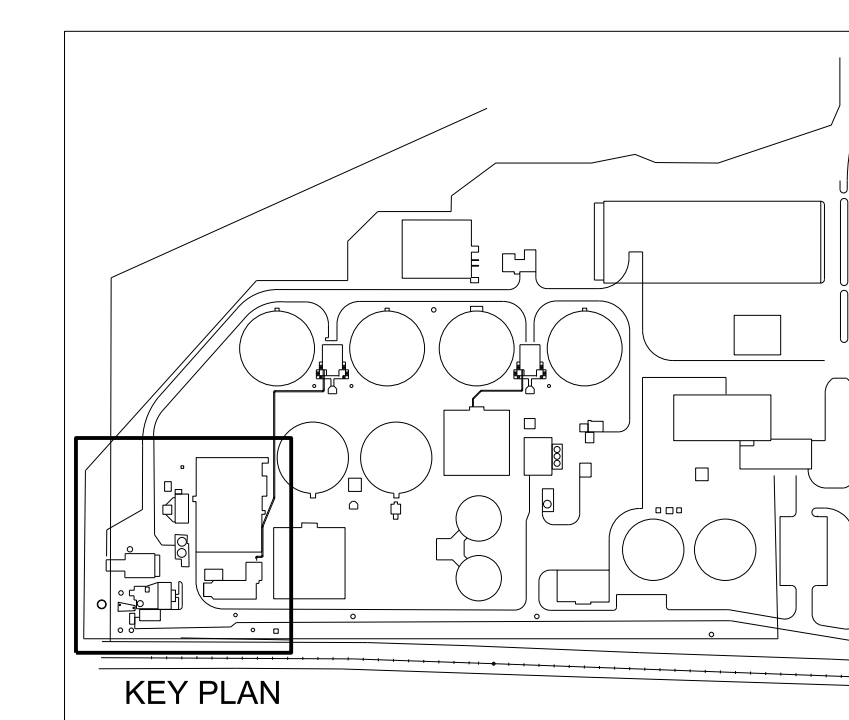


NOTES

1. REFER TO SCADA RISER FOR CONDUIT AND WIRE REQUIRED.
2. PROVIDE EQUIPMENT FRAME AT UPPER LEVEL FOR MOUNTING OF DISCONNECT SWITCH AND JUNCTION BOX FOR SLIDE GATE ACTUATOR.
3. EXTEND CIRCUIT FROM BRANCH CIRCUIT PANEL INFLUENT PUMP STATION CONTROL BUILDING.
4. TO SCADA PANEL LCP-1000.
5. ALL EXPOSED CONDUIT SHALL BE STAINLESS STEEL.



1 MAINFLOW SPLITTER BOX UPPER PLAN - ELECTRICAL
E-203 SCALE: 1/4" = 1'-0"



2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
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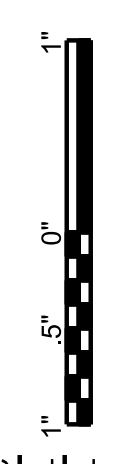
BGJWSC Project No. 906
GMC Project #CSAV190007



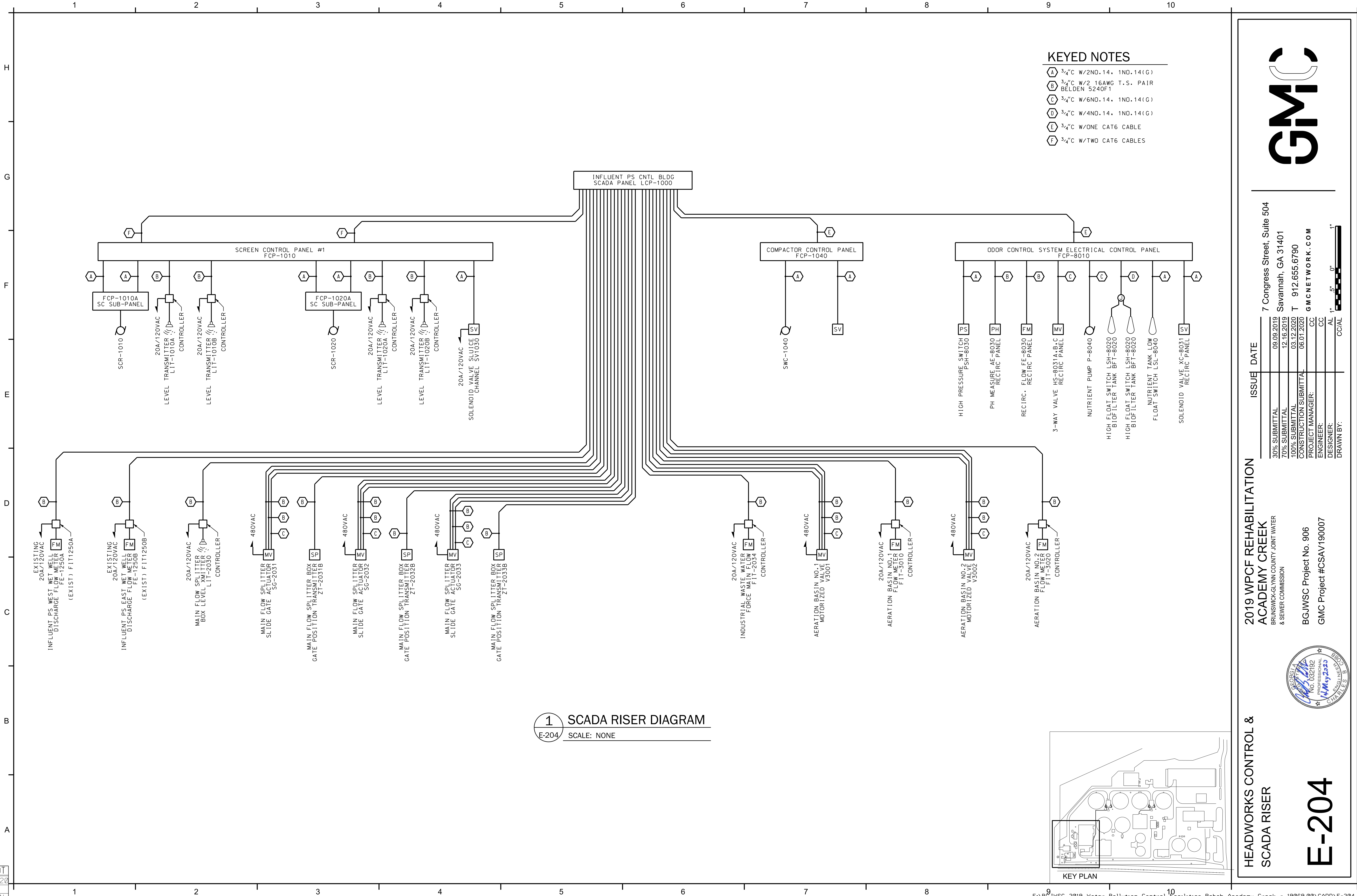
MAINFLOW SPLITTER BOX - ELECTRICAL

E-203

ISSUE	DATE	ISSUE	DATE
30% SUBMITTAL	09.09.2019	7 Congress Street, Suite 504	
70% SUBMITTAL	12.16.2019	Savannah, GA 31401	
100% SUBMITTAL	03.12.2020	T 912.655.6790	
CONSTRUCTION SUBMITTAL	06.01.2020	GMCNETWORK.COM	
PROJECT MANAGER:	CC		
ENGINEER:	CC		
DESIGNER:	AL		
DRAWN BY:	CC/AL		

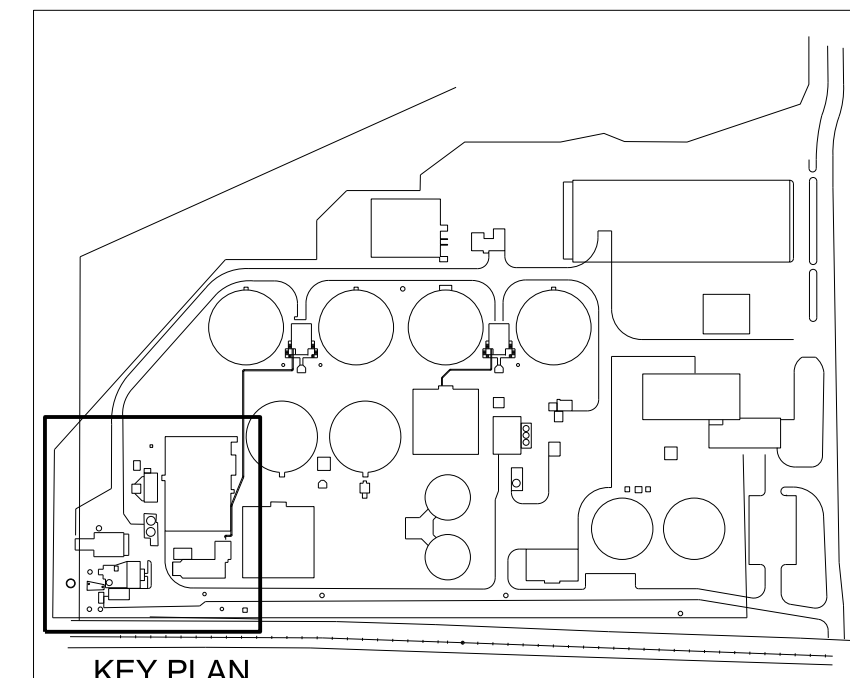


CADD PLOT
14-MAY-2020
11:44
ALAWSON



- KEYED NOTES**
- A 3/4" C W/2NO. 14, 1NO. 14(G)
 - B 3/4" C W/2 16AWG T.S. PAIR BELDEN 5240F1
 - C 3/4" C W/6NO. 14, 1NO. 14(G)
 - D 3/4" C W/4NO. 14, 1NO. 14(G)
 - E 3/4" C W/ONE CAT6 CABLE
 - F 3/4" C W/TWO CAT6 CABLES

1 SCADA RISER DIAGRAM
E-204 SCALE: NONE



HEADWORKS CONTROL & SCADA RISER

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

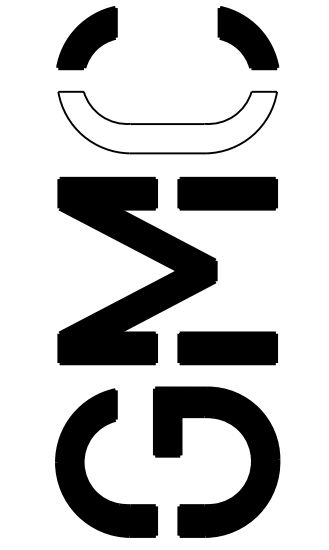
PROJECT NO. 906
GMC Project #CSAV190007



E-204

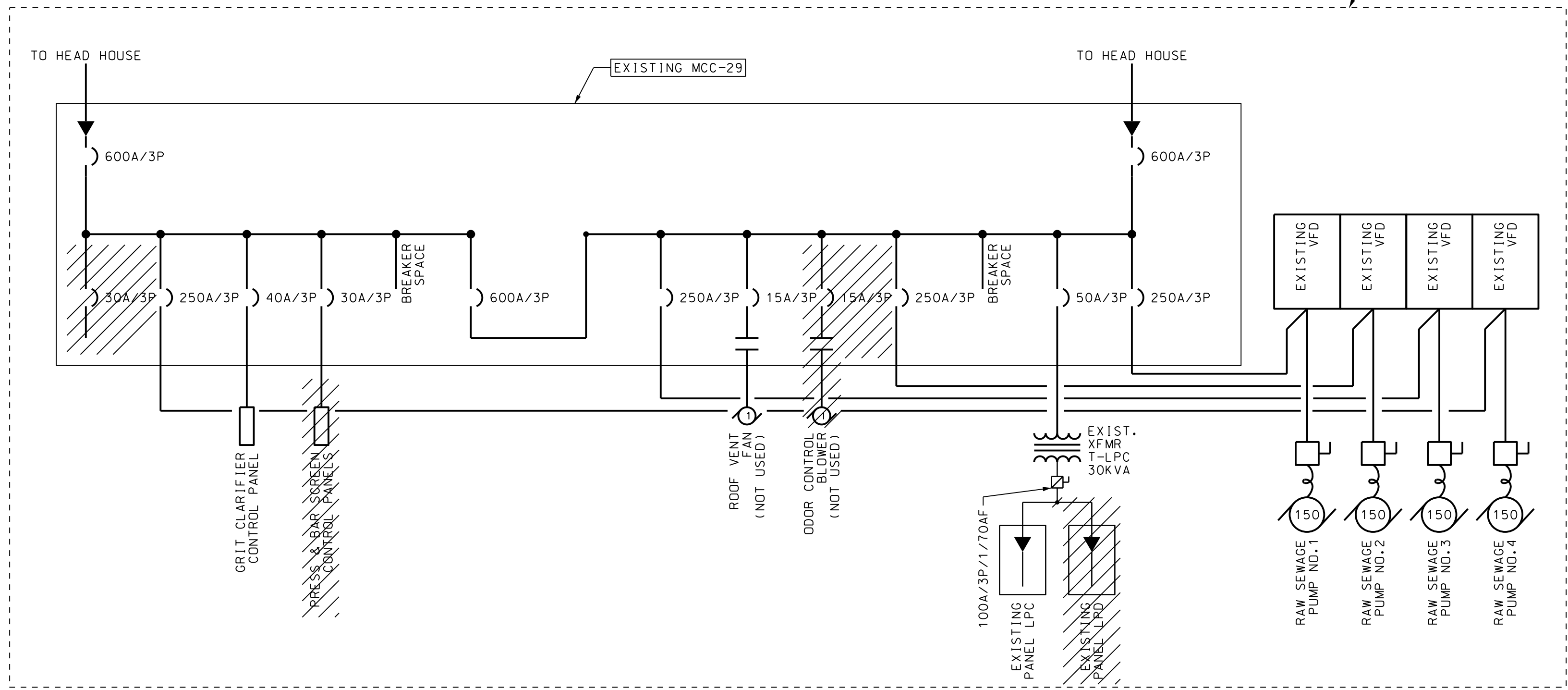
ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
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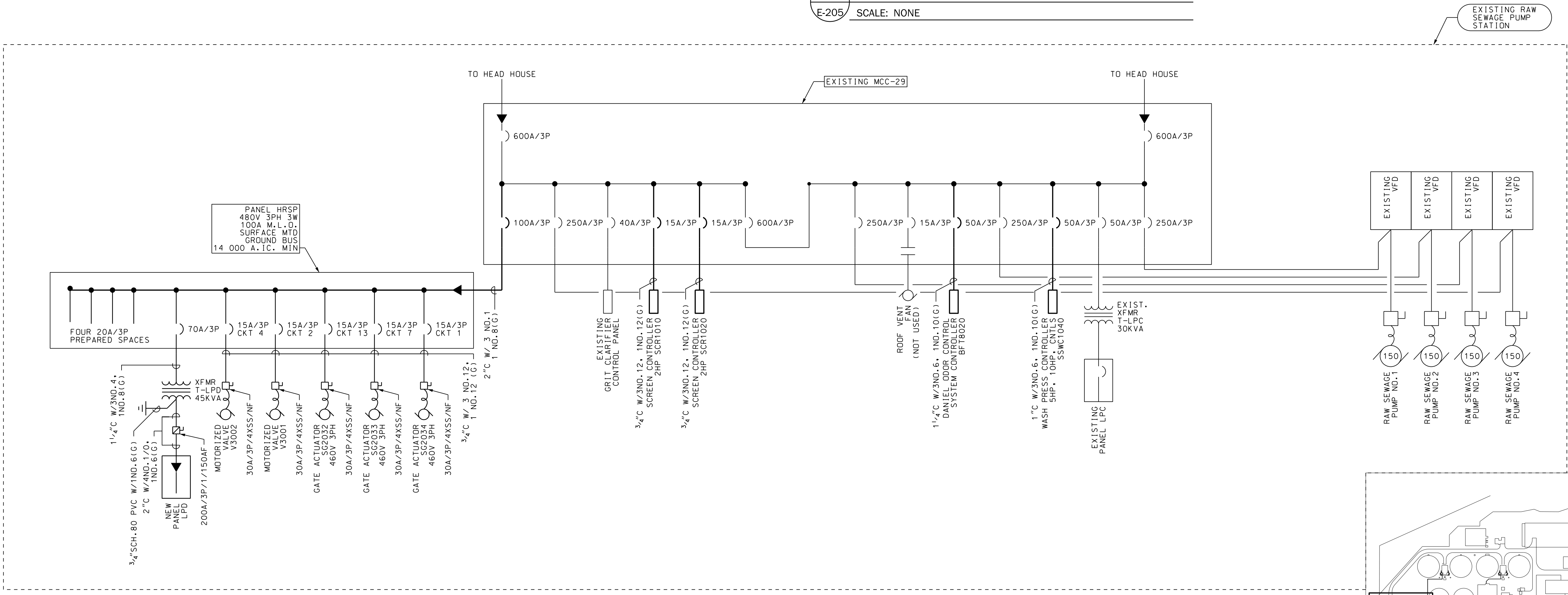


SCHEDULE OF PANEL 'LPD'									
VOLTAGE: 208 / 120		PHASE: 3			WIRE: 4				
BUS AMPS: 225 A		DEVICE AMPS: 200 A			MLO				
A.I.C RATING: 10,000 A		MOUNTING: SURFACE			1				
LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (KVA)	LOCATION DESCRIPTION
HEATER NO.1	1.5	E	20A/2P	1	A	2	20A/2P	E 1.5	HEATER NO.3
-	1.5	E	-	3	B	4	-	E 1.5	-
HEATER NO.2	1.5	E	20A/2P	5	C	6	20A/2P	E 1.5	HEATER NO.4
-	1.5	E	-	7	A	8	-	E 1.5	-
CPI - CONTROL POWER	1.0	H	20A/1P	9	B	10	20A/1P	B 1.0	RCPT TOP FLOOR
EXISTING LOAD	1.0	H	20A/1P	11	C	12	20A/1P	B 1.2	PUMP RCPT
BOTTOM FLOOR LIGHTS	0.5	A	20A/1P	13	A	14	20A/1P		SPARE
TOP FLOOR LIGHTS	0.5	A	20A/1P	15	B	16	20A/1P		SPARE
LIGHTS OUTSIDE	0.5	A	20A/1P	17	C	18	20A/1P	B 1.0	2&3 FLOOR RCPT
EXISTING LOAD	1.0	H	20A/1P	19	A	20	20A/1P	A 0.5	WET WELL & 2NC FLOOR LIGHTS
EXISTING LOAD	2.5	H	40A/2P	21	B	22	15A/3P	D 0.7	IHP-3
-	2.5	H	-	23	C	24	-	D 0.7	7.12MCA 208V 3PH
FLOWMETER FE3030	0.1	H	20A/1P	25	A	26	-	D 0.7	-
LEVEL SENSOR LIT-1020A & 1020B	0.2	H	20A/1P	27	B	28	50A/3P	D 3.2	OHP-3
LEVEL SENSOR LIT-1010A & 1010B	0.2	H	20A/1P	29	C	30	-	D 3.2	33MCA 208V 3PH
SOLENOID VALVE SV1040	0.1	H	20A/1P	31	A	32	-	D 3.2	-
SOLENOID VALVE SV1030	0.1	H	20A/1P	33	B	34	20A/1P		SPARE
FLOWMETER FIR-2034	0.1	H	20A/1P	35	C	36	20A/1P		SPARE
SPARE			20A/1P	37	A	38	20A/1P		SPARE
SPARE			20A/1P	39	B	40	20A/1P		SPARE
SPARE			20A/1P	41	C	42	20A/1P		SPARE

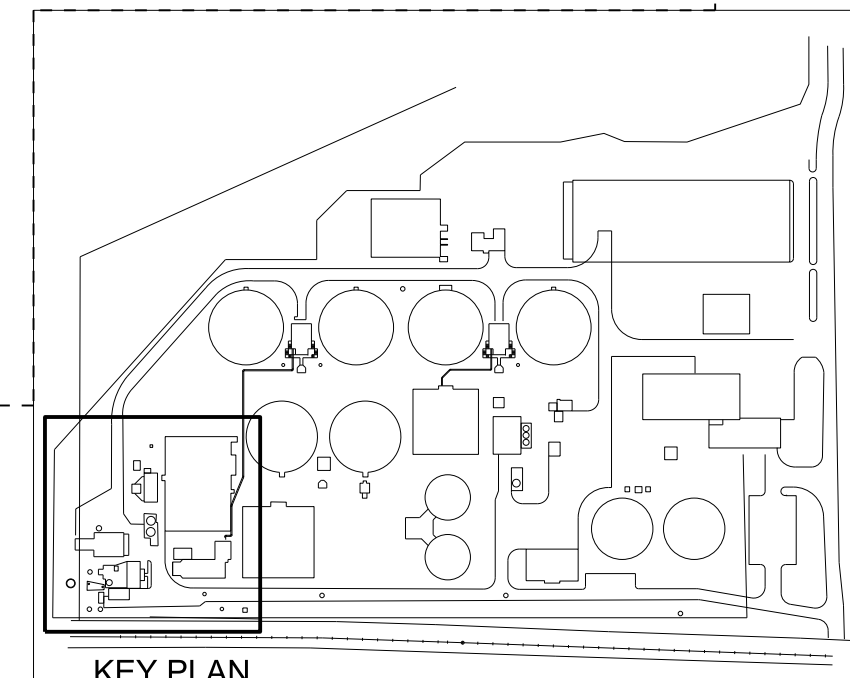
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2017 NEC Reference
A	Lighting	2.0	2.5	NEC Article 215.3	E	Heating	12.0	12.0	NEC Article 220.60
B	Receptacles	3.2	3.2	NEC Table 220.44	F	Largest Motor	0.0	0.0	NEC Article 440.7
C	Kitchen Equipment	0.0	0.0	NEC Table 220.56	G	Other Motors	0.0	0.0	NEC Article 440.7
D	Air-Conditioning	11.6	0.0	NEC Article 220.60	H	Other Loads	8.8	8.8	
Phase A Connected Load		12.1 KVA	Notes:		TOTAL CONNECTED LOAD		37.6 KVA	104.2 AMPS	
Phase B Connected Load		12.2 KVA			TOTAL DEMAND LOAD		26.5 KVA	73.6 AMPS	
Phase C Connected Load		13.4 KVA			MINIMUM SIZING AMPS		41.4 KVA	114.9 AMPS	



1 MCC-29 ONE-LINE DIAGRAM - DEMOLITION
E-205 SCALE: NONE



1 MCC-29 ONE-LINE DIAGRAM - RENOVATION
E-205 SCALE: NONE



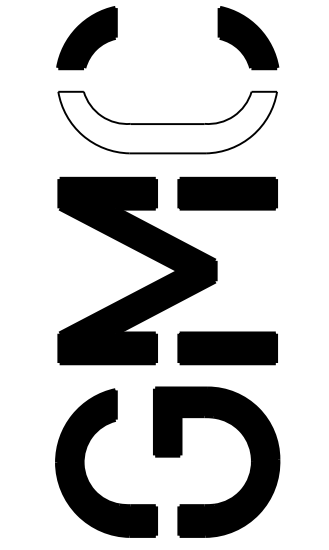
RAW SEWAGE PUMP STATION
ONE-LINE DIAGRAM

2019 WPCF REHABILITATION
ACADEMY CREEK
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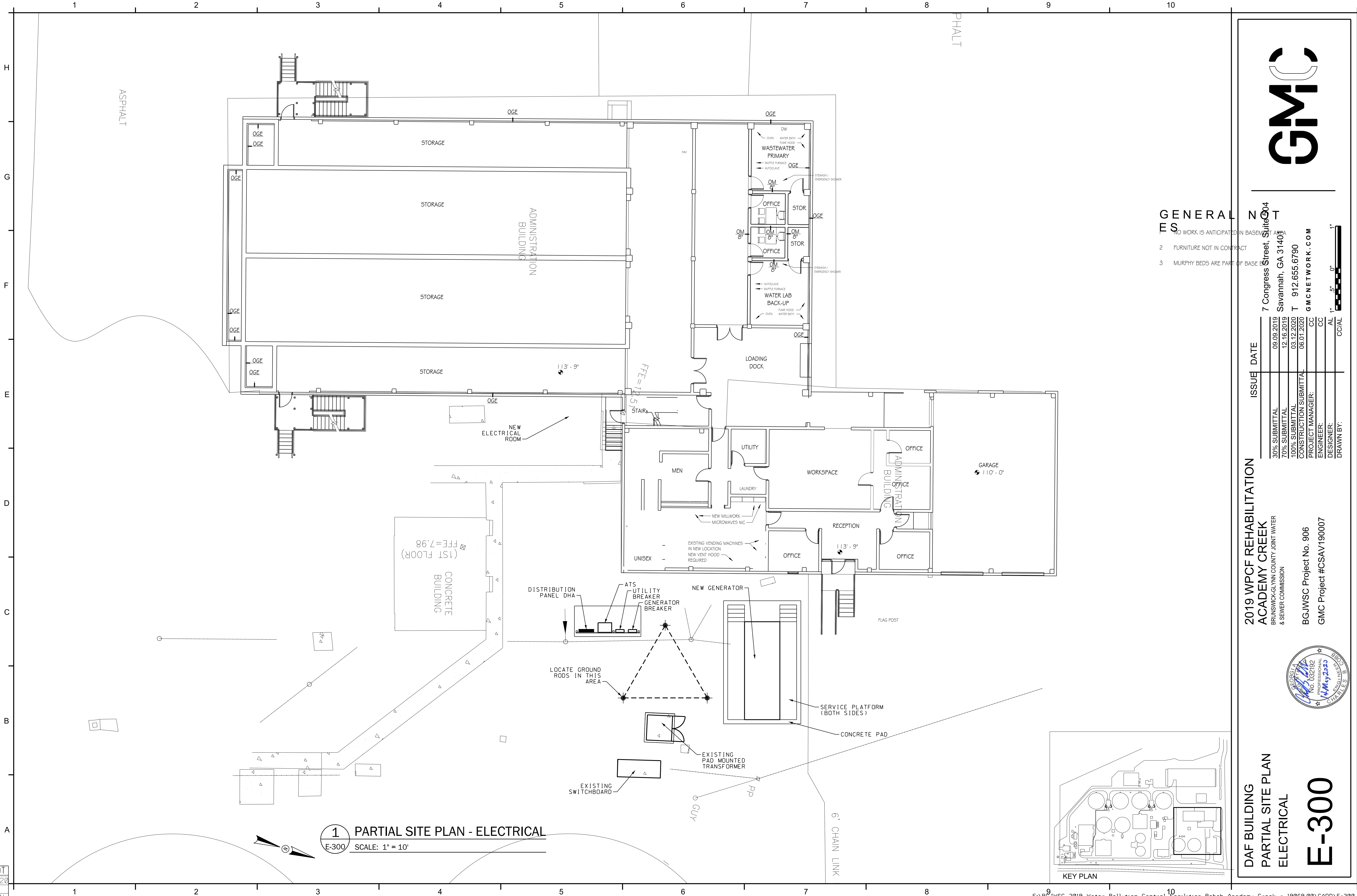
BGJWSC Project No. 906
GMC Project #CSAV190007

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
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CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
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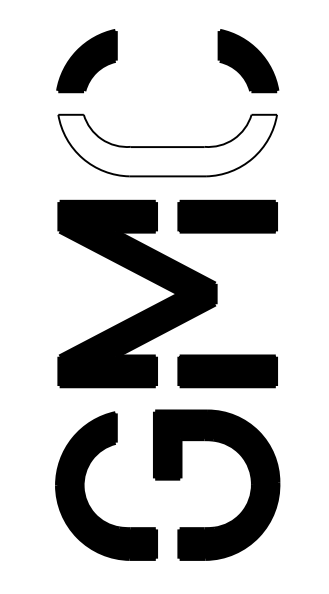
E-205



1 PARTIAL SITE PLAN - ELECTRICAL
 E-300 SCALE: 1" = 10'

GENERAL NOTES

- 1 NO WORK IS ANTICIPATED IN BASEMENT AREA
- 2 FURNITURE NOT IN CONTRACT
- 3 MURPHY BEDS ARE PART OF BASEMENT



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ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
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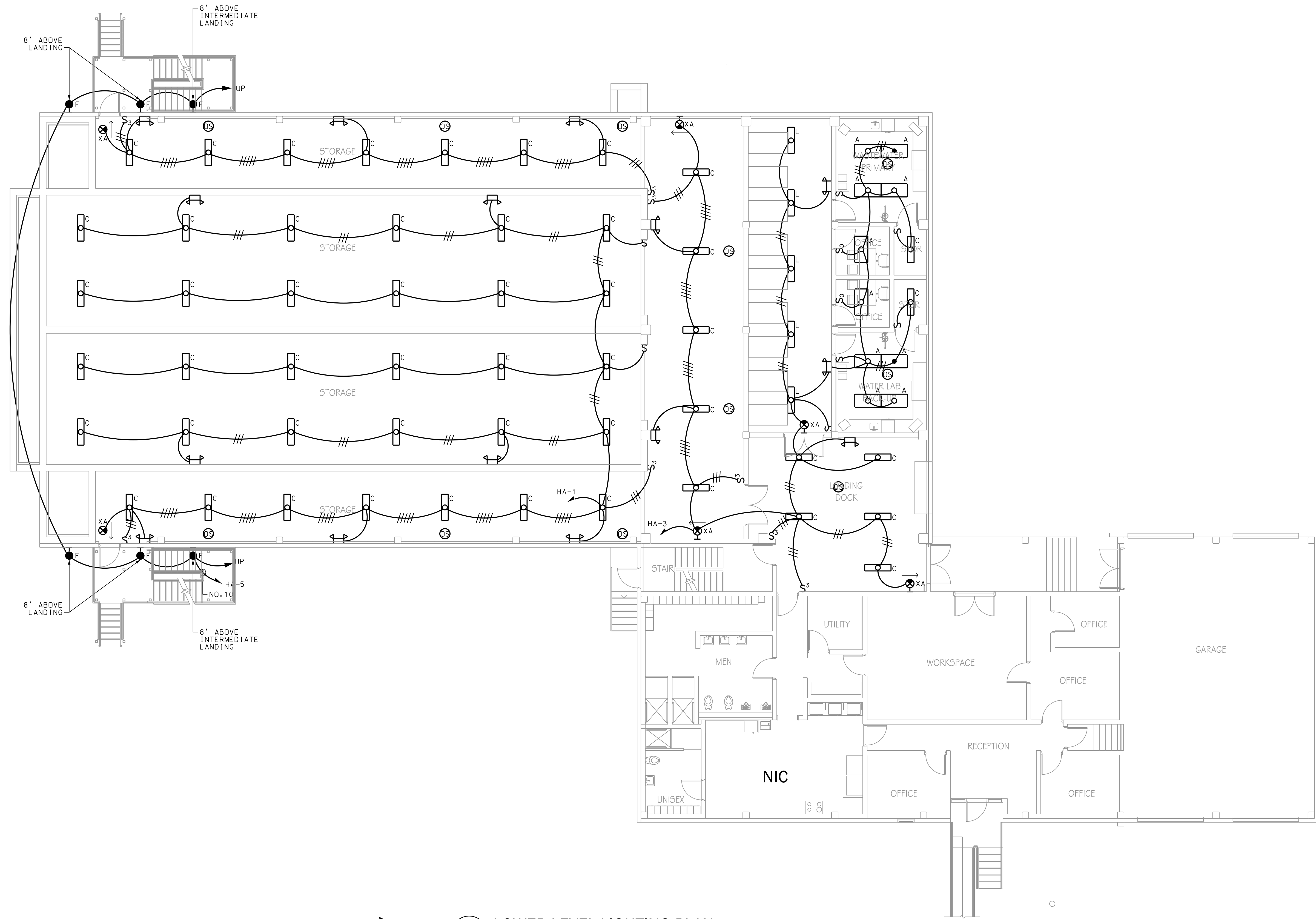
BGJWSC Project No. 906
 GMC Project #CSAV190007



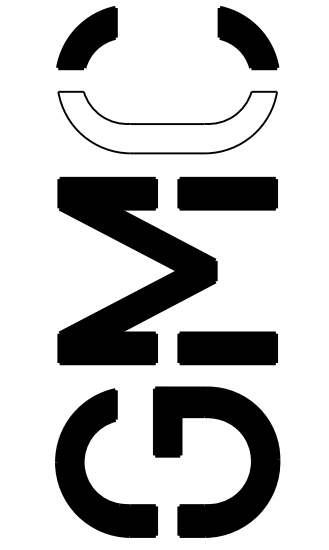
DAF BUILDING
PARTIAL SITE PLAN
ELECTRICAL

E-300

CADD PLOT
 14-MAY-2020
 11:49
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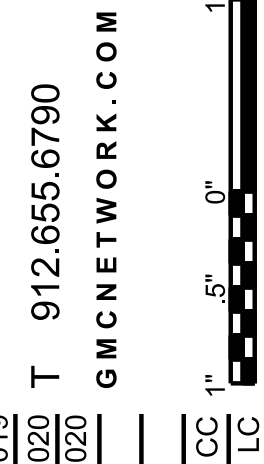


1 LOWER LEVEL LIGHTING PLAN
 E-301 SCALE: 1/8" = 1'-0"



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CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	



2019 WPCF REHABILITATION

ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
 & SEWER COMMISSION

BGJWSC Project No. 906
 GMC Project #CSAV190007



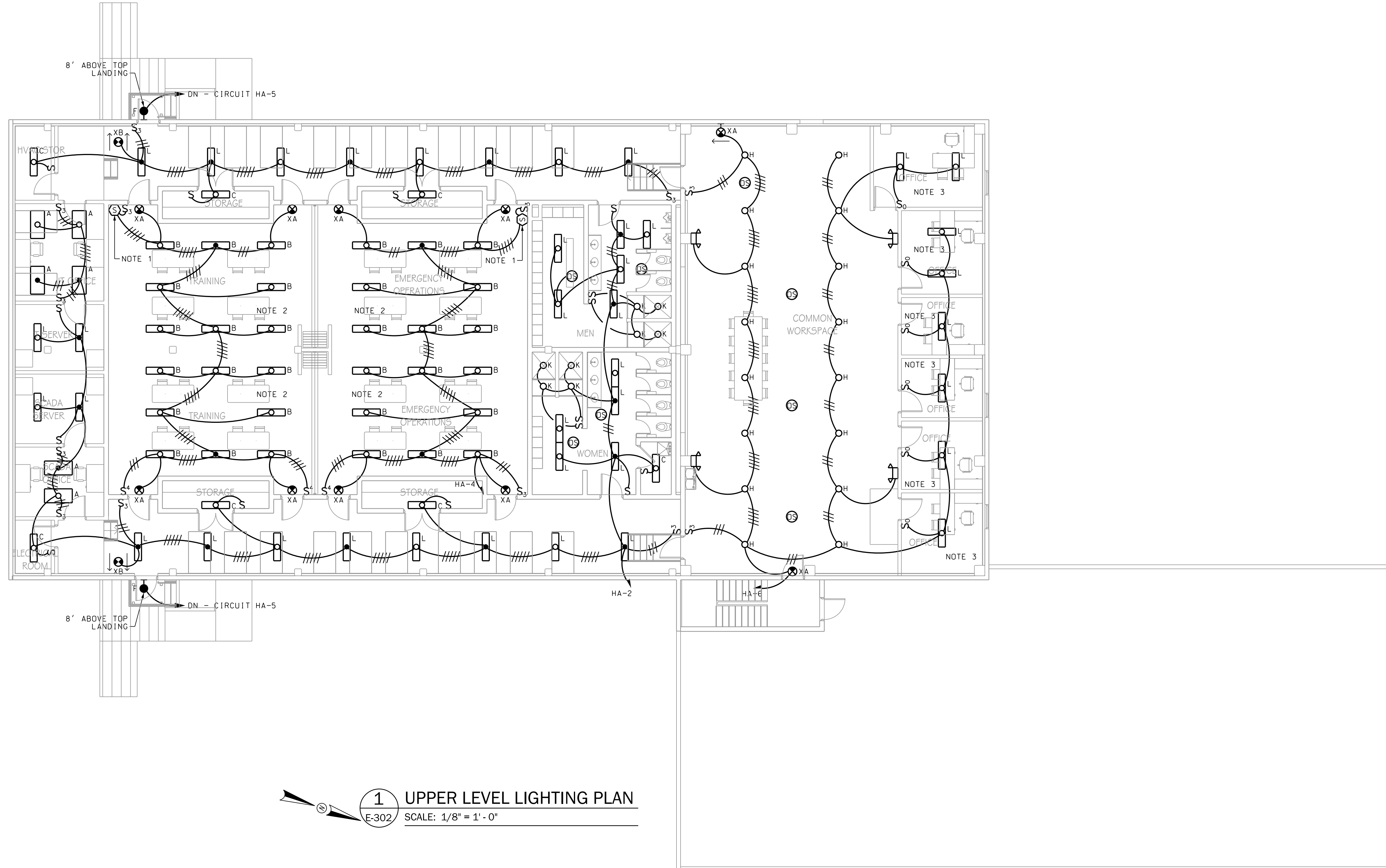
DAF BUILDING -
 LOWER LEVEL
 LIGHTING PLAN

E-301

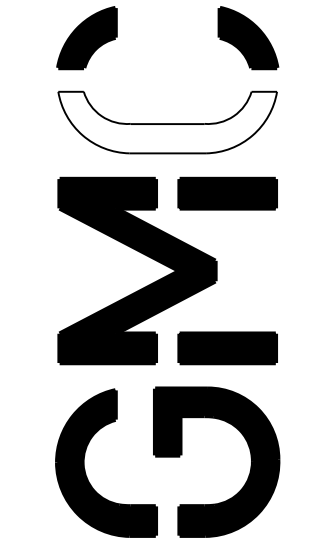
CADD PLOT
 14-MAY-2020
 11:52
 ALAWSON

NOTES:

1. CONNECT DIMMER ON SWITCH LEG OF THREE WAY SWITCHES.
2. PENDANT MOUNT FIXTURES 9 FT AFF. COORDINATE FIXTURE STEM LENGTH AS REQUIRED. LOCATE FIXTURES TO NOT BE ABOVE CEILING FANS.
3. PENDANT FIXTURES 9 FT AFF IN OFFICES.



1 UPPER LEVEL LIGHTING PLAN
 E-302 SCALE: 1/8" = 1' - 0"



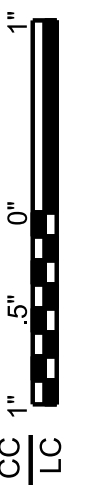
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PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	

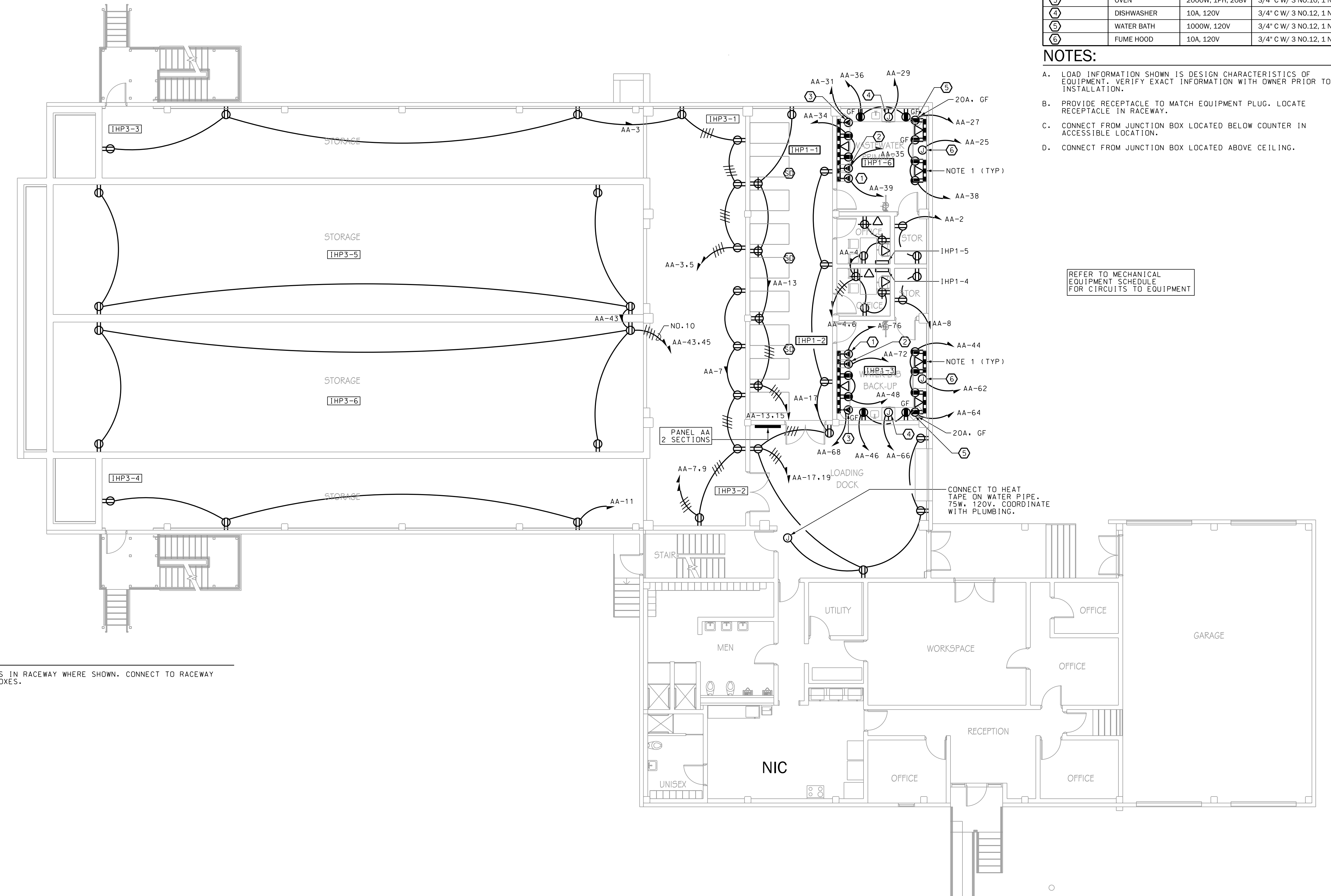
2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER
 & SEWER COMMISSION
 BGJWSC Project No. 906
 GMC Project #CSAV190007



**DAF BUILDING -
 UPPER LEVEL
 LIGHTING PLAN**
E-302



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 14-MAY-2020
 11:52
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LAB EQUIPMENT SCHEDULE - NOTE A

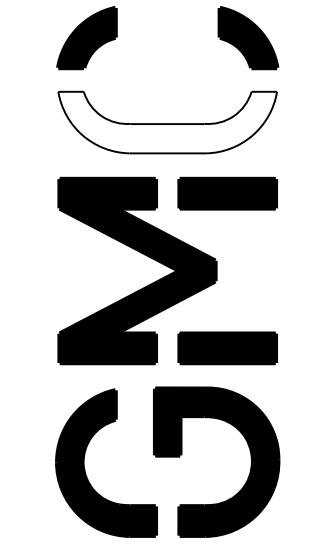
EQUIPMENT NUMBER	DESCRIPTION	DESIGN RATING	CIRCUIT	NOTES
1	AUTOCLAVE	2300W, 1PH, 208V	3/4" C W/ 3 NO.10, 1 NO.10(G)	B
2	MUFFLE FURNACE	4000W, 1PH, 208V	3/4" C W/ 3 NO.10, 1 NO.10(G)	B
3	OVEN	2000W, 1PH, 208V	3/4" C W/ 3 NO.10, 1 NO.10(G)	B
4	DISHWASHER	10A, 120V	3/4" C W/ 3 NO.12, 1 NO.12(G)	C
5	WATER BATH	1000W, 120V	3/4" C W/ 3 NO.12, 1 NO.12(G)	B
6	FUME HOOD	10A, 120V	3/4" C W/ 3 NO.12, 1 NO.12(G)	D

- NOTES:**
- A. LOAD INFORMATION SHOWN IS DESIGN CHARACTERISTICS OF EQUIPMENT. VERIFY EXACT INFORMATION WITH OWNER PRIOR TO INSTALLATION.
 - B. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. LOCATE RECEPTACLE IN RACEWAY.
 - C. CONNECT FROM JUNCTION BOX LOCATED BELOW COUNTER IN ACCESSIBLE LOCATION.
 - D. CONNECT FROM JUNCTION BOX LOCATED ABOVE CEILING.

- NOTES:**
- 1. MOUNT DEVICES IN RACEWAY WHERE SHOWN. CONNECT TO RACEWAY FROM FLUSH BOXES.

REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CIRCUITS TO EQUIPMENT

1 LOWER LEVEL POWER PLAN
 E-303 SCALE: 1/8" = 1' - 0"




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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

PROJECT MANAGER: _____
 ENGINEER: _____
 DESIGNER: _____
 DRAWN BY: _____

2019 WPCF REHABILITATION
 ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

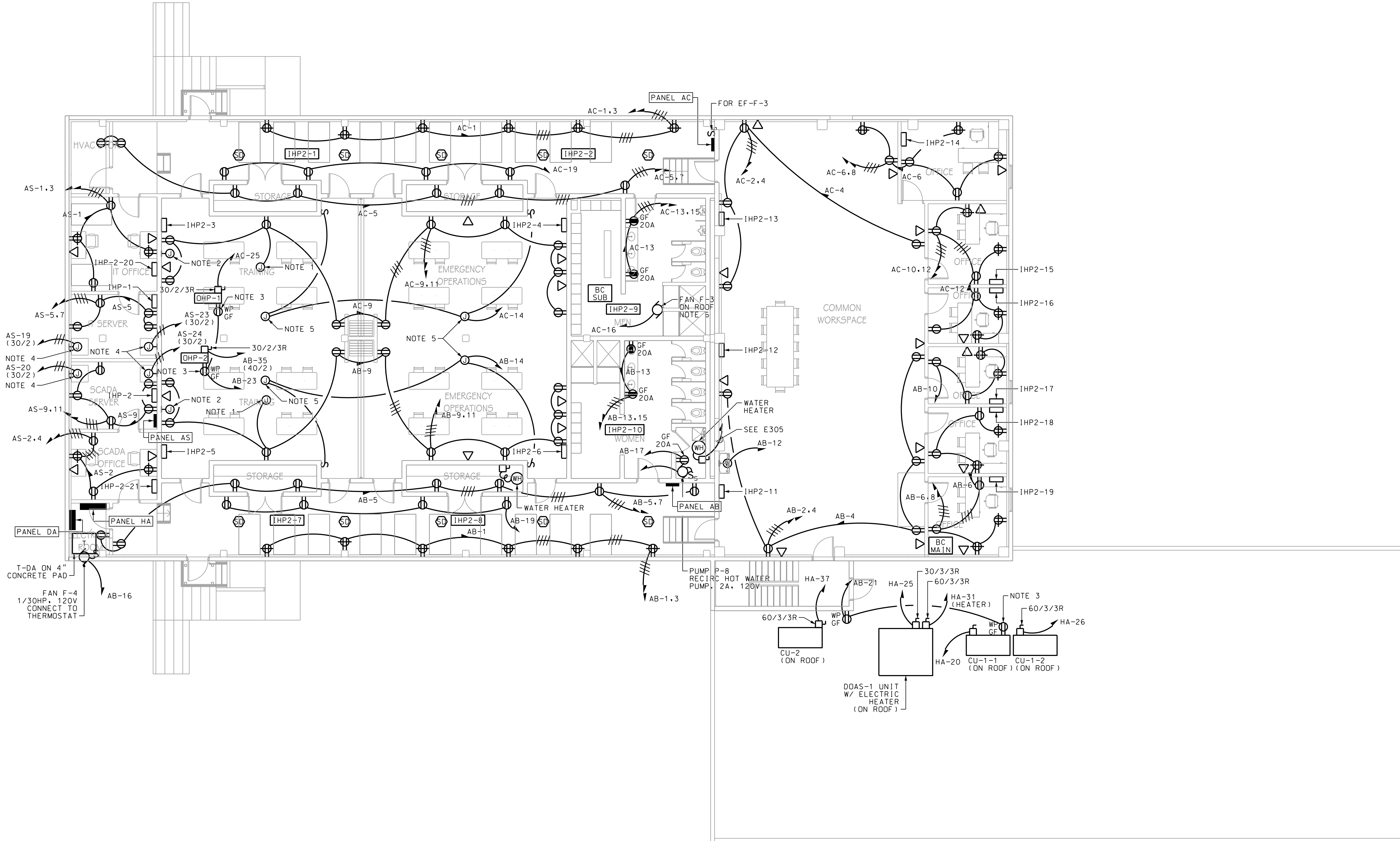
BGJWSC Project No. 906
 GMC Project #CSAV190007



DAF BUILDING -
 LOWER LEVEL
 POWER PLAN
E-303

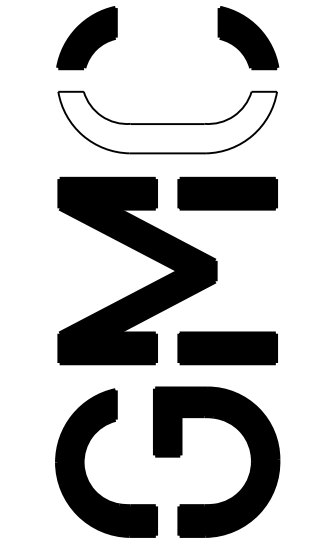
NOTES:

1. PROVIDE RECEPTACLE ABOVE CEILING FOR O/H PROJECTOR.
2. PROVIDE 4 1/4" DEEP SQUARE BOX 16" AFF AND EXTEND 1 1/4"C TO ABOVE CEILING FOR OH PROJECTOR CABLE.
3. MOUNT RECEPTACLE ON ROOF ADJACENT TO HVAC EQUIPMENT.
4. FOR RACK, CONNECT AS REQUIRED CIRCUITS TO BE 3/4"C W/ 3 NO.10, 1 NO.10(G).
5. CONNECT TO CEILING FANS, DESIGN LOAD 4A, 120V EACH.
6. EF F-3 IS RATED 1/GHP, 120V, EXTEND THRU MOTOR SWITCH W/ OL PROTECTION LOCATED ADJACENT TO PANEL AC.



REFER TO SHEET E-305 FOR MECHANICAL EQUIPMENT SCHEDULE

1 UPPER LEVEL POWER PLAN
 E-304 SCALE: 1/8" = 1' - 0"



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100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	

2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION
 BGVWSC Project No. 906
 GMC Project #OSAV190007



DAF BUILDING -
 UPPER LEVEL
 POWER PLAN
E-304

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 14-MAY-2020
 11:54
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MECHANICAL EQUIPMENT SCHEDULE

ID	ELECTRICAL RATING	CIRCUIT BREAKER	CIRCUIT	NOTES
OHP-1	25MCA, 1PH, 208V	AC-35 (40/2)	3/4"C W/ 2 NO.10, 1 NO.10(G)	A, C
OHP-2	25MCA, 1PH, 208V	AB-35 (40/2)	3/4"C W/ 2 NO.10, 1 NO.10(G)	A, C
CU-1-1	28MCA, 3PH, 460V	HA-20 (40/3)	1"C W/ 3 NO.8, 1 NO.10(G)	A
CU-1-2	28MCA, 3PH, 460V	HA-26 (40/3)	1"C W/ 3 NO.8, 1 NO.10(G)	A
CU-2	25MCA, 3PH, 460V	HA-37 (40/3)	1"C W/ 3 NO.8, 1 NO.10(G)	A
IHP1-1	0.3MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP1-2	0.3MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP1-3	0.3MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP1-4	0.2MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP1-5	0.2MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP1-6	0.3MCA, 1PH, 208V	AA-59 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-1	0.54MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-2	0.54MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-3	0.54MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-4	0.54MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-5	0.54MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-6	0.54MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-7	0.54MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-8	0.54MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-9	0.3MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-10	0.3MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-11	0.63MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-12	0.63MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-13	0.63MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-14	0.4MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-15	0.2MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-16	0.2MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-17	0.2MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-18	0.2MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-19	0.2MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-20	0.4MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP2-21	0.2MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
IHP3-1	0.54MCA, 1PH, 208V	AA-63 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
IHP3-2	0.54MCA, 1PH, 208V	AA-67 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
IHP3-3	0.54MCA, 1PH, 208V	AA-63 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
IHP3-4	0.54MCA, 1PH, 208V	AA-67 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
IHP3-5	0.54MCA, 1PH, 208V	AA-63 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
IHP3-6	0.54MCA, 1PH, 208V	AA-67 (15/2)	1/2"C W/ 2 NO.10, 1 NO.10(G)	B
BC-MAIN	1.6MCA, 1PH, 208V	AB-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
BC-SUB	0.7MCA, 1PH, 208V	AC-39 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
HEADER	1.6MCA, 1PH, 208V	AA-55 (15/2)	1/2"C W/ 2 NO.12, 1 NO.12(G)	B
DOAS-1	25MCA, 3PH, 460V	HA-25 (30/3)	3/4"C W/ 3 NO.10, 1 NO.10(G)	A
DOAS HEAT	30KW, 3PH, 460V	HA-31 (50/3)	1 1/4"C W/ 3 NO.6, 1 NO.10(G)	A

NOTES:

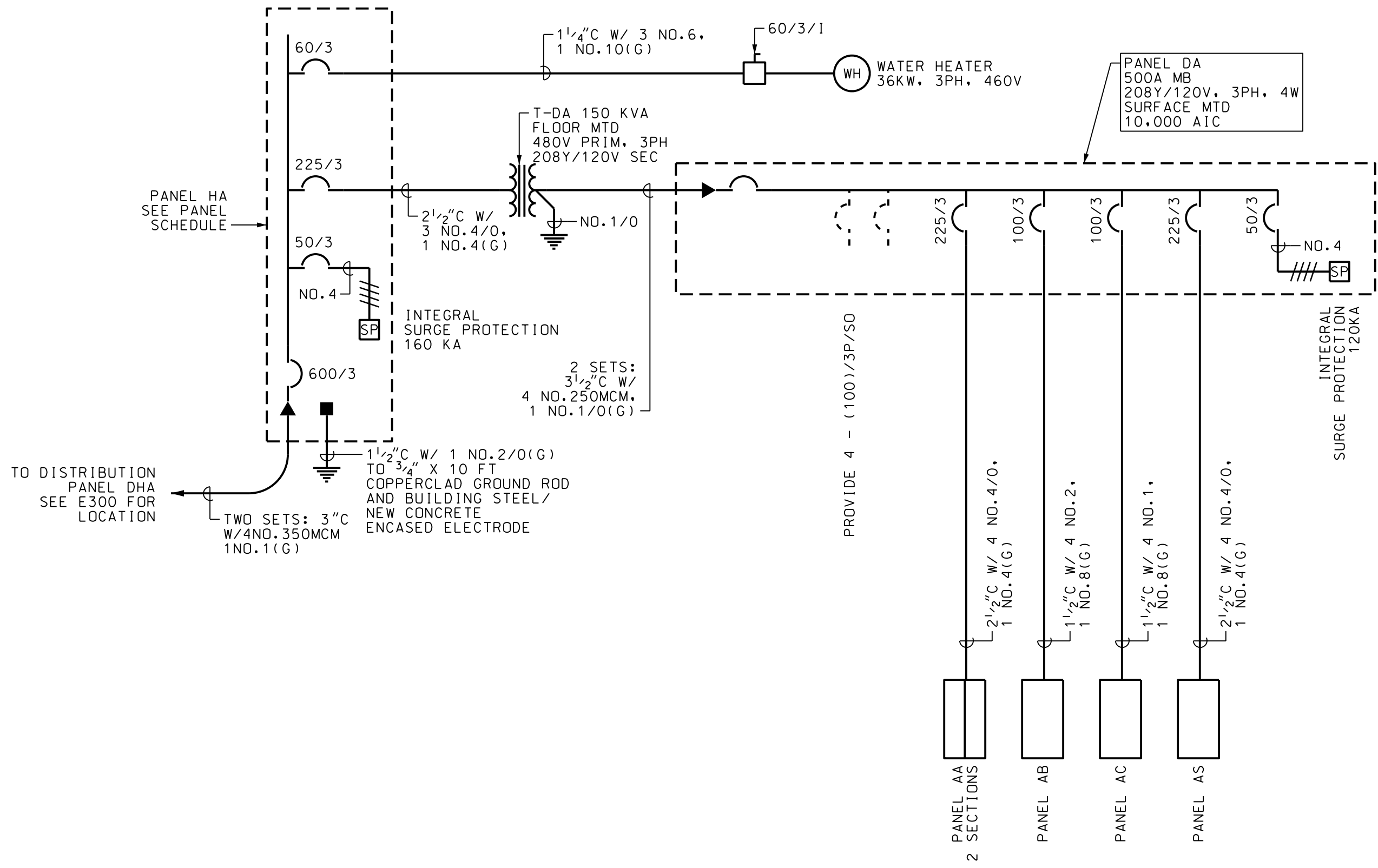
- A. MOUNT DISCONNECT ON CHANNEL RACK ADJACENT TO UNIT'S CONNECTION POINT.
- B. MOUNT 15A/2P DISCONNECT ADJACENT TO UNIT.
- C. PROVIDE PAD LOCKABLE DISCONNECT SWITCH FOR OHP ON ROOF. INDOOR UNIT FED FROM OUTDOOR UNIT.

SCHEDULE PANELBOARD HA

CIR. #	TRIP/POLE	KVA	DESCRIPTION	PHASE			WIRE	MOUNTING SURFACE	KVA	TRIP/POLE	CIR. #	
				PH. A	PH. B	PH. C						
1	20/1	1.60	LIGHTING	4.0					2.40	20/1	2	
3	20/1	1.20	LIGHTING		3.9				2.70	20/1	4	
5	20/1	0.90	LIGHTING			3.0			2.10	20/1	6	
7	20/1		SPARE	0.0						20/1	8	
9	20/1		SPARE		0.0					20/1	10	
11	20/1		SPARE			0.0				20/1	12	
13	20/1		SPARE	0.0						20/1	14	
15	20/1		SPARE		0.0					20/1	16	
17	20/1		SPARE			0.0				20/1	18	
19	225/3	43.80	TRANSFORMER T-DA	50.0				6.20	40/3	20		
21	-	37.60						6.20	-	22		
23	-	35.30						6.20	-	24		
25	30/3	6.50	DOAS-1	11.7				6.20	40/3	26		
27	-	5.50			11.7			6.20	-	28		
29	-	5.50				11.7		6.20	-	30		
31	50/3	10.00	DOAS HEATER	22.0				12.00	60/3	32		
33	-	10.00			22.0			12.00	-	34		
35	-	10.00				22.0		12.00	-	36		
37	40/3	5.50	CU-2	5.5				50/3	38			
39	-	5.50			5.5			-	40			
41	-	5.50				5.5		-	42			
43	3P/SO		SPACE	0.0				3P/SO	44			
45	-				0.0			-	46			
47	-					0.0		-	48			
49	3P/SO		SPACE	0.0				3P/SO	50			
51	-				0.0			-	52			
53	-					0.0		-	54			
MIN. BREAKER AIC:				25,000 AIC	93.2	86.9	83.7	TOTAL CONNECTED LOAD	263.8			
NOTES:					93.2	86.9	83.7	TOTAL DEMAND LOAD	263.8			

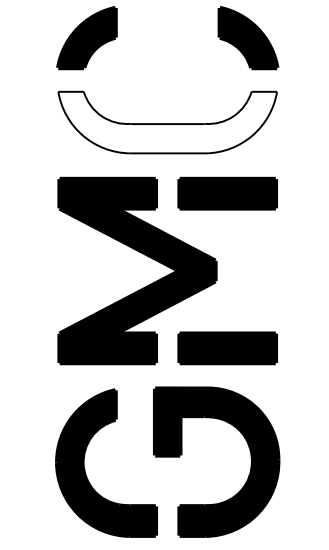
SCHEDULE PANELBOARD AS

CIR. #	TRIP/POLE	KVA	DESCRIPTION	PHASE			WIRE	MOUNTING SURFACE	KVA	TRIP/POLE	CIR. #	
				PH. A	PH. B	PH. C						
1	20/1	0.60	IT OFFICE	1.2					0.60	20/1	2	
3	20/1	0.60	IT OFFICE		1.2				0.60	20/1	4	
5	20/1	0.60	SERVER ROOM			0.6			0.60	20/1	6	
7	20/1	0.60	SERVER ROOM	0.6					0.60	20/1	8	
9	20/1	0.60	SCADA ROOM		0.6				0.60	20/1	10	
11	20/1	0.60	SCADA ROOM			0.6			0.60	20/1	12	
13	20/1		SPARE	0.0						20/1	14	
15	20/1		SPARE		0.0					20/1	16	
17	20/1		SPARE			0.0				20/1	18	
19	30/2	2.50	SERVER RACK	5.0				2.50	30/2	20		
21	-	2.50	SERVER RACK		5.0			2.50	-	22		
23	30/2	2.50	SERVER RACK			5.0		2.50	30/2	24		
25	-	2.50	SERVER RACK	5.0				2.50	-	26		
27	30/2	2.50	SERVER RACK - FUT		5.0			2.50	30/2	28		
29	-	2.50	SERVER RACK - FUT			5.0		2.50	-	30		
31	30/2	2.50	SERVER RACK - FUT	5.0				2.50	30/2	32		
33	-	2.50	SERVER RACK - FUT		5.0			2.50	-	34		
35	/1		SPACE			0.0		/1	36			
37	/1		SPACE	0.0				/1	38			
39	/1		SPACE		0.0			/1	40			
41	/1		SPACE			0.0		/1	42			
MIN. BREAKER AIC:				10,000 AIC	16.8	16.8	11.2	TOTAL CONNECTED LOAD	44.8			
NOTES:					16.8	16.8	11.2	TOTAL DEMAND LOAD	44.8			



1 ONE-LINE DIAGRAM - ADMINISTRATION BLDG.

E-305 SCALE: NONE



ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

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PROJECT MANAGER:
ENGINEER:
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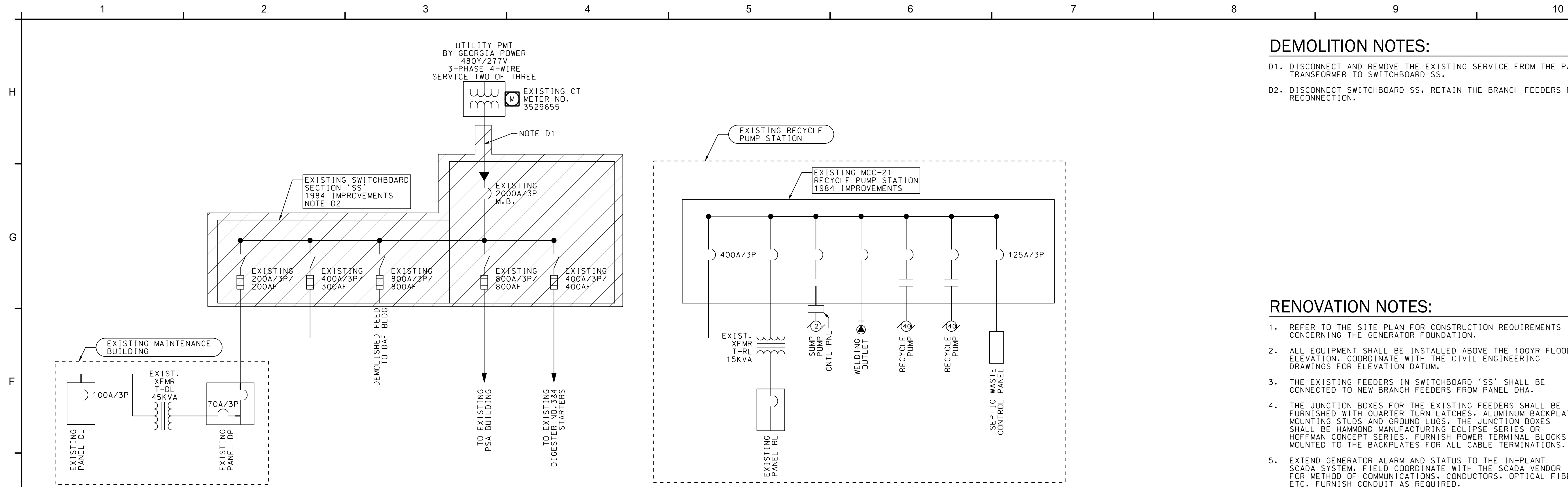
2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGWSC Project No. 906
GMC Project #CSAV190007



DAF BUILDING - MECHANICAL
EQUIPMENT SCHEDULE

E-305



1 SERVICE 'SS' DEMOLITION ONE-LINE DIAGRAM
E-306 SCALE: NONE

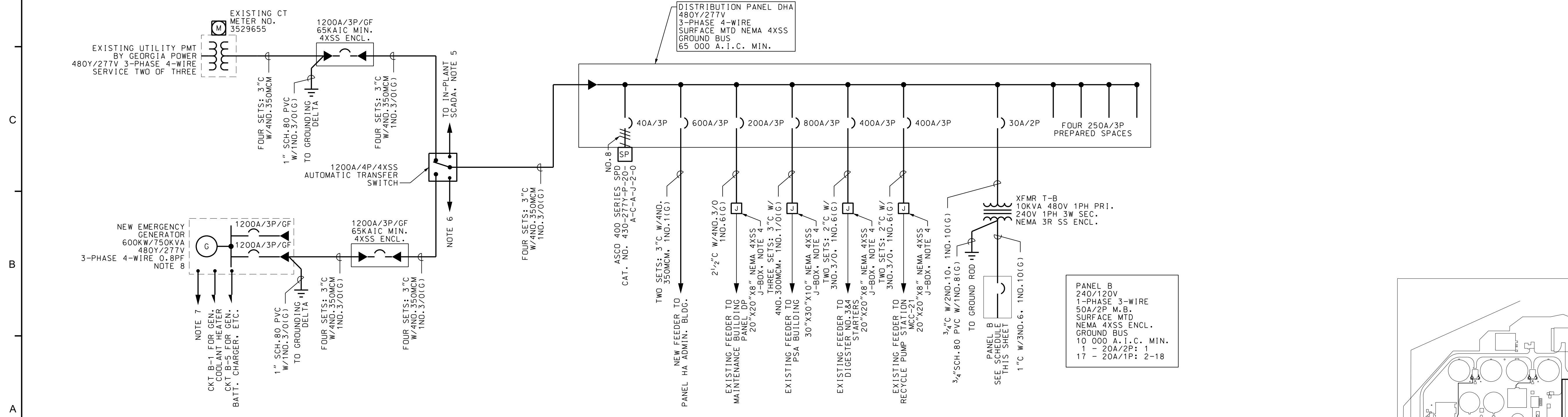
DEMOLITION NOTES:

D1. DISCONNECT AND REMOVE THE EXISTING SERVICE FROM THE PAD MOUNTED TRANSFORMER TO SWITCHBOARD SS.

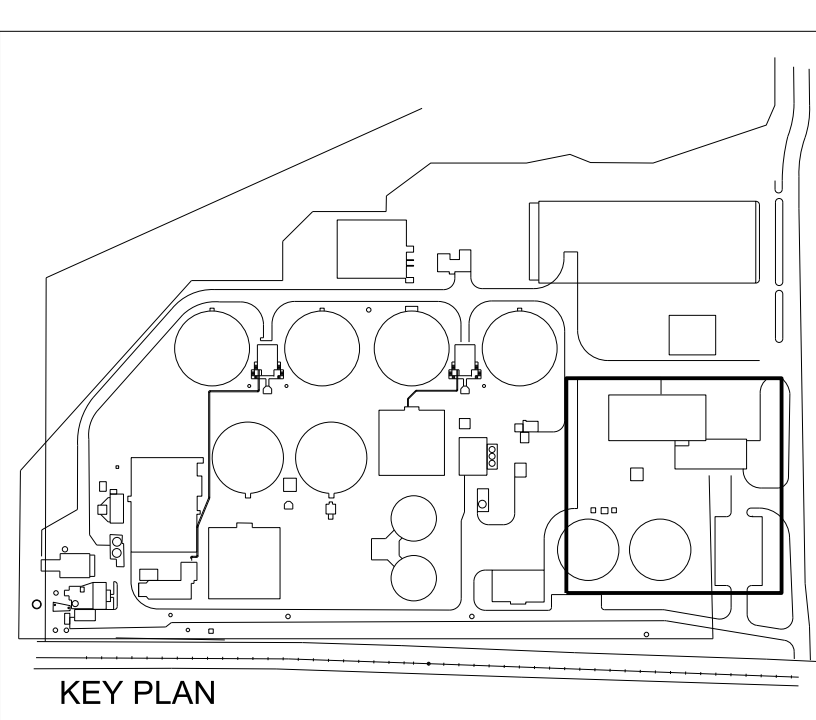
D2. DISCONNECT SWITCHBOARD SS. RETAIN THE BRANCH FEEDERS FOR RECONNECTION.

RENOVATION NOTES:

- REFER TO THE SITE PLAN FOR CONSTRUCTION REQUIREMENTS CONCERNING THE GENERATOR FOUNDATION.
- ALL EQUIPMENT SHALL BE INSTALLED ABOVE THE 100YR FLOOD ELEVATION. COORDINATE WITH THE CIVIL ENGINEERING DRAWINGS FOR ELEVATION DATUM.
- THE EXISTING FEEDERS IN SWITCHBOARD 'SS' SHALL BE CONNECTED TO NEW BRANCH FEEDERS FROM PANEL DHA.
- THE JUNCTION BOXES FOR THE EXISTING FEEDERS SHALL BE FURNISHED WITH QUARTER TURN LATCHES, ALUMINUM BACKPLATES MOUNTING STUDS AND GROUND LUGS. THE JUNCTION BOXES SHALL BE HAMMOND MANUFACTURING ECLIPSE SERIES OR HOFFMAN CONCEPT SERIES. FURNISH POWER TERMINAL BLOCKS MOUNTED TO THE BACKPLATES FOR ALL CABLE TERMINATIONS.
- EXTEND GENERATOR ALARM AND STATUS TO THE IN-PLANT SCADA SYSTEM. FIELD COORDINATE WITH THE SCADA VENDOR FOR METHOD OF COMMUNICATIONS, CONDUCTORS, OPTICAL FIBER, ETC. FURNISH CONDUIT AS REQUIRED.
- THREE 1" C W/CONDUCTORS AS REQUIRED FOR ALARMS AND STATUS OF THE GENERATOR. EXTEND TO GENERATOR CONTROLLER.
- TO ATS. REFER TO NOTE 6.
- THE GENERATOR SHALL BE FURNISHED WITH AN AUXILIARY BREAKER FOR TESTING, LOAD BANK AND MAINTENANCE. THE BREAKER SHALL BE IDENTICAL TO THE GENERATOR MAIN LINE BREAKER.



2 SERVICE DHA RENOVATION ONE-LINE DIAGRAM
E-306 SCALE: NONE



2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
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DAF BUILDING ONE-LINE DIAGRAM

E-306

GMC

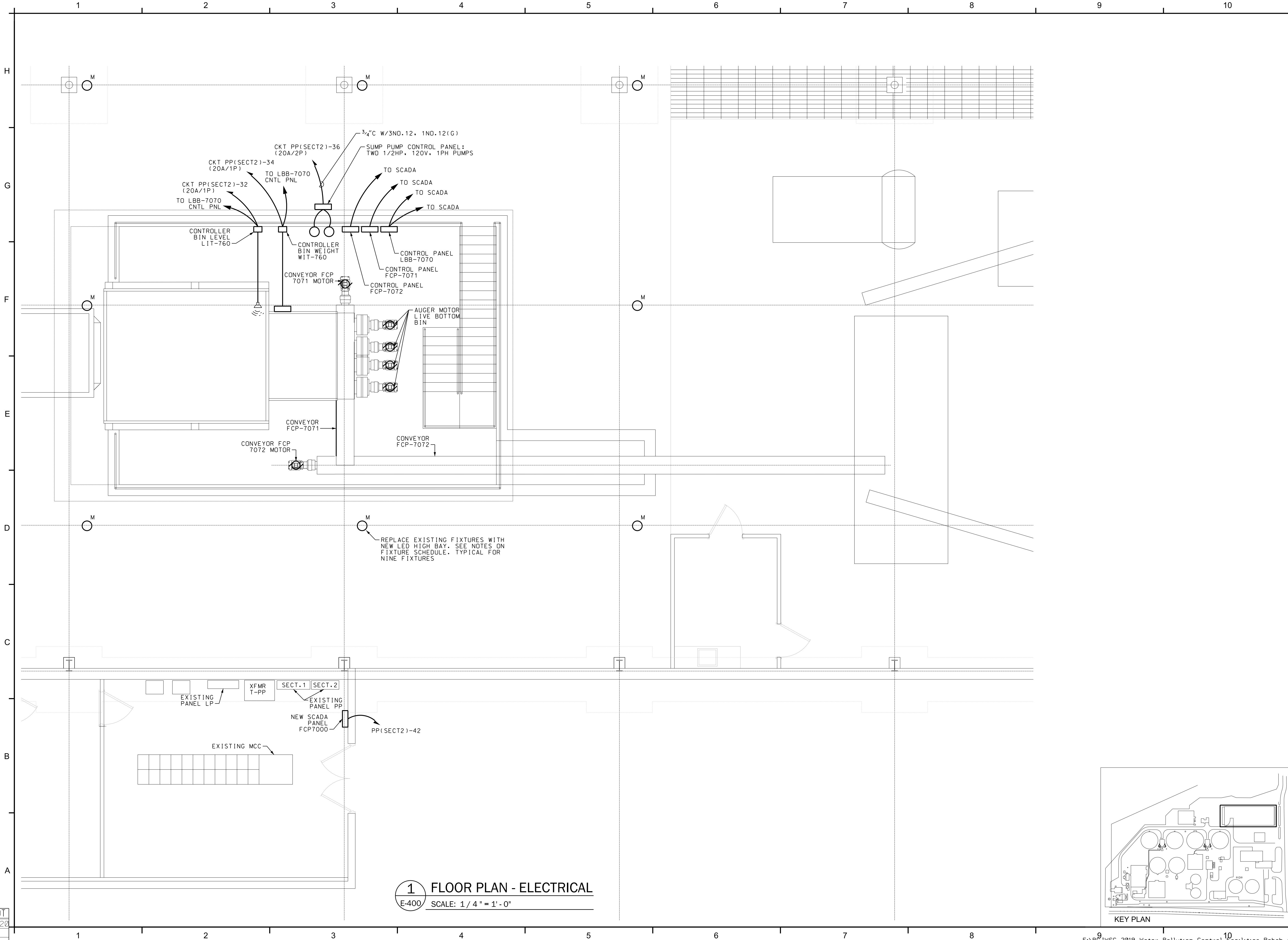
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ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

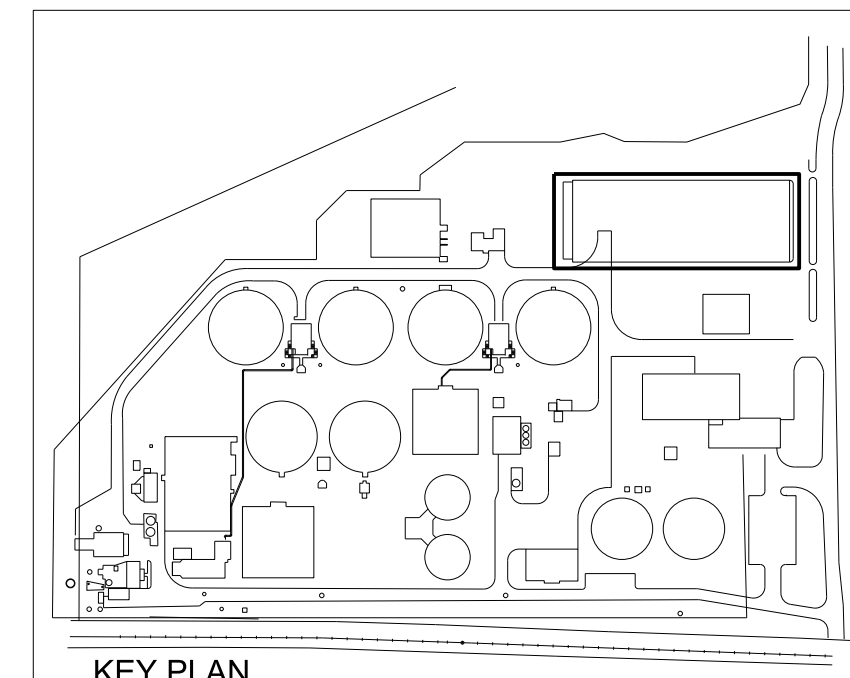
PROJECT MANAGER:
ENGINEER:
DESIGNER:
DRAWN BY:

1" = 5' 0" PM LC





1 FLOOR PLAN - ELECTRICAL
 E-400 SCALE: 1/4" = 1'-0"



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 14-MAY-2020
 16:00
 CCOBB

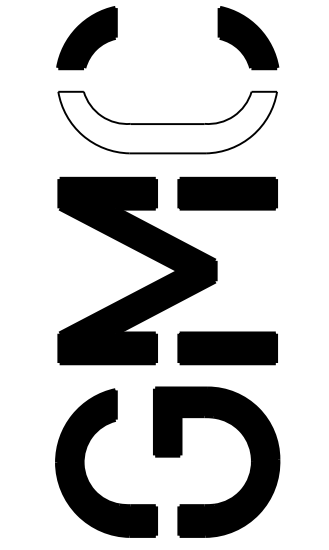
2019 WPCF REHABILITATION
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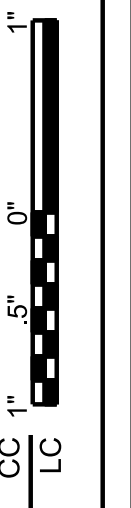
DEWATERING BUILDING
SOLIDS HANDLING PLAN -
ELECTRICAL

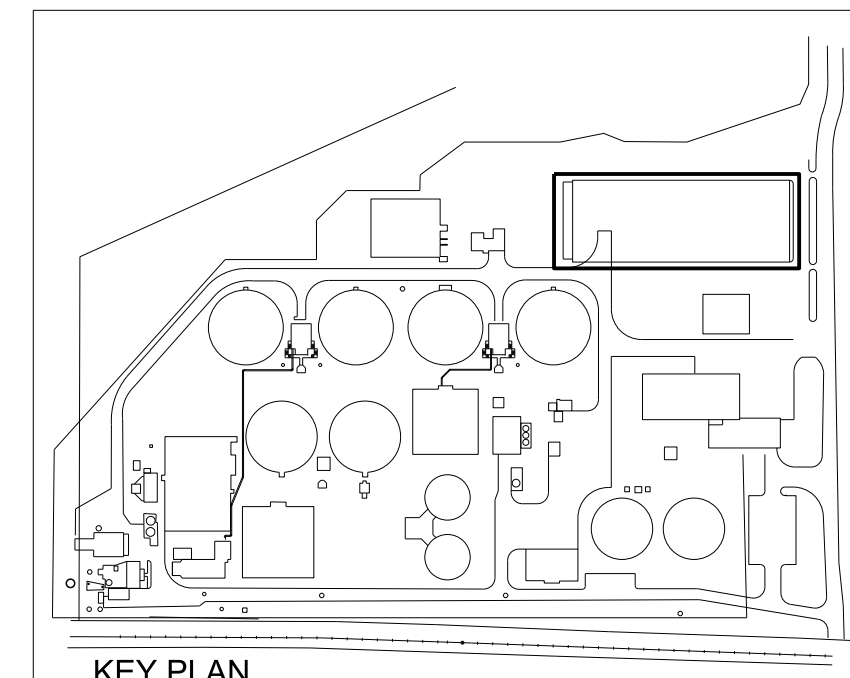
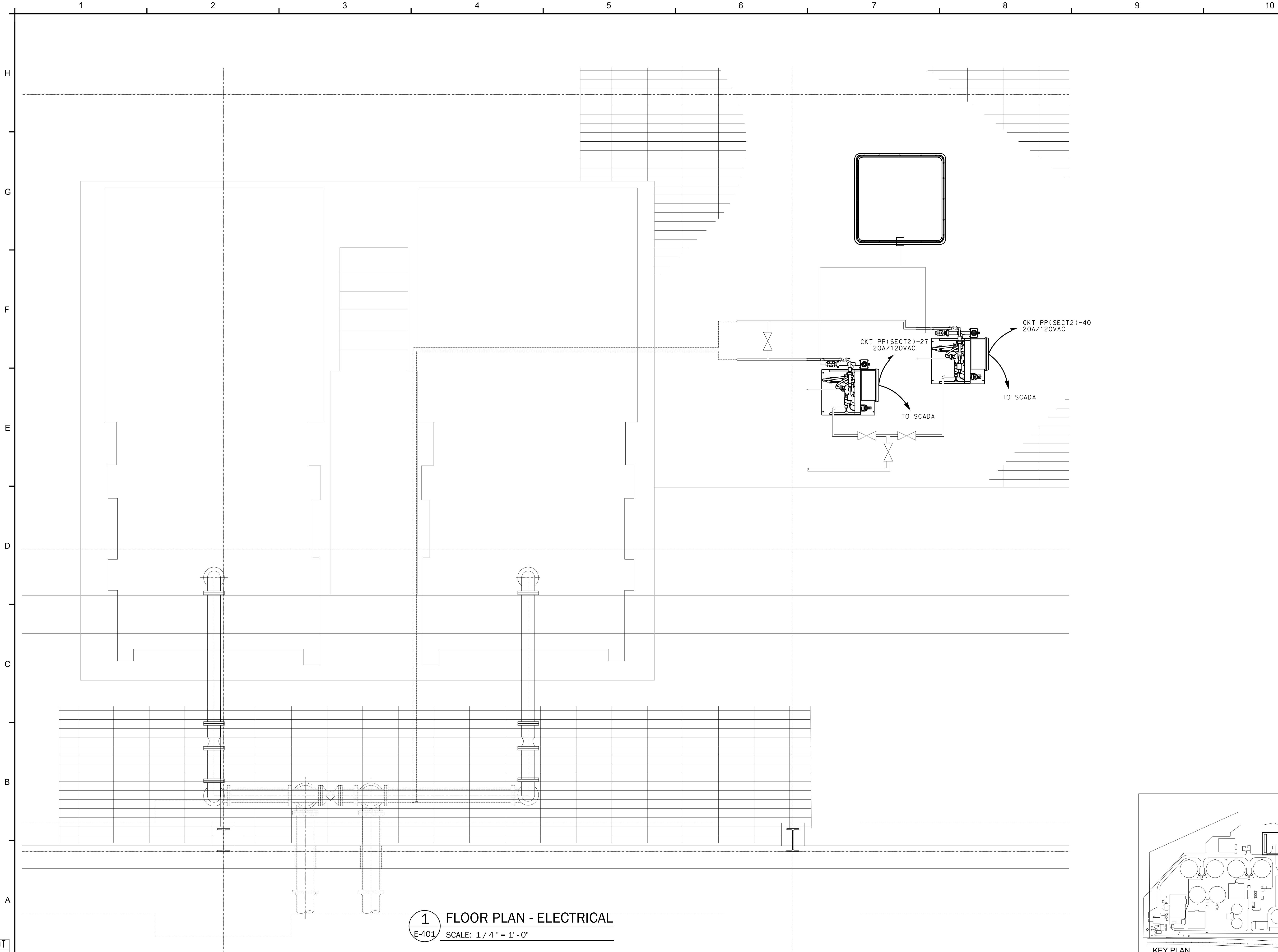
E-400



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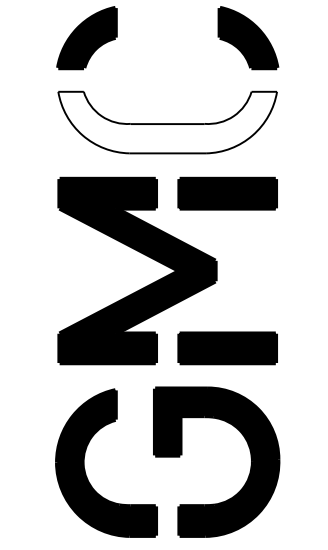
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	





1 FLOOR PLAN - ELECTRICAL
E-401 SCALE: 1/4" = 1'-0"

CADD PLOT
14-MAY-2020
16:02
CCOBB



2019 WPCF REHABILITATION
ACADEMY CREEK
 BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

DEWATERING BUILDING
POLYMER SYSTEM PLAN -
ELECTRICAL

E-401

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020

PROJECT MANAGER: _____
 ENGINEER: _____
 DESIGNER: _____
 DRAWN BY: _____

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BGJWSC Project No. 906
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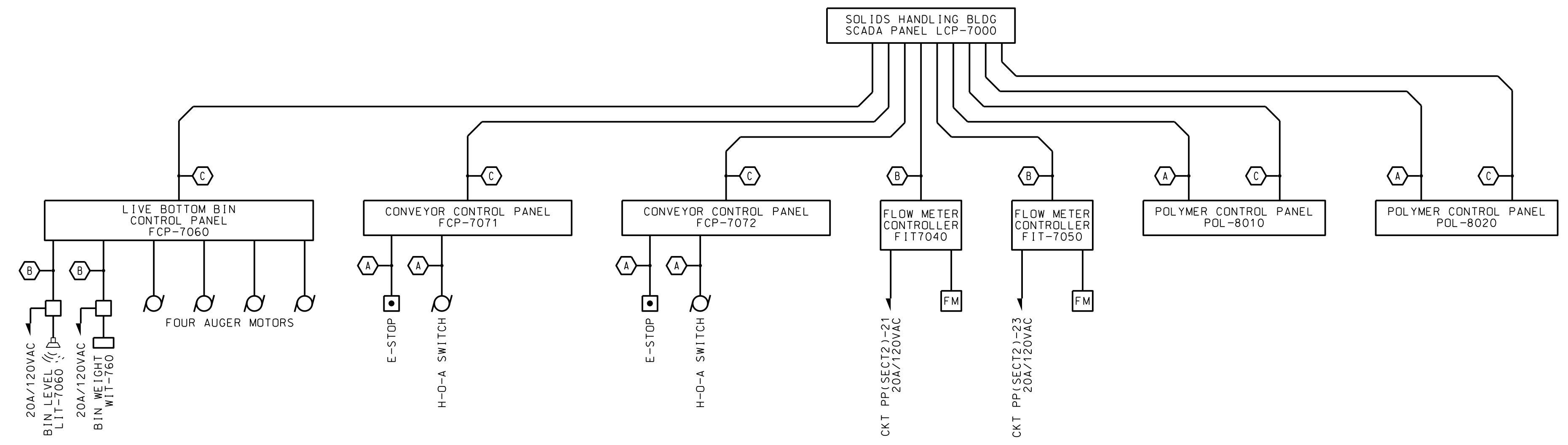
CC 1" = 0' 5"
 LC 1" = 1"

GEORGIA
 PROFESSIONAL ENGINEER
 11,154,233
 CHARLES B. BOYD

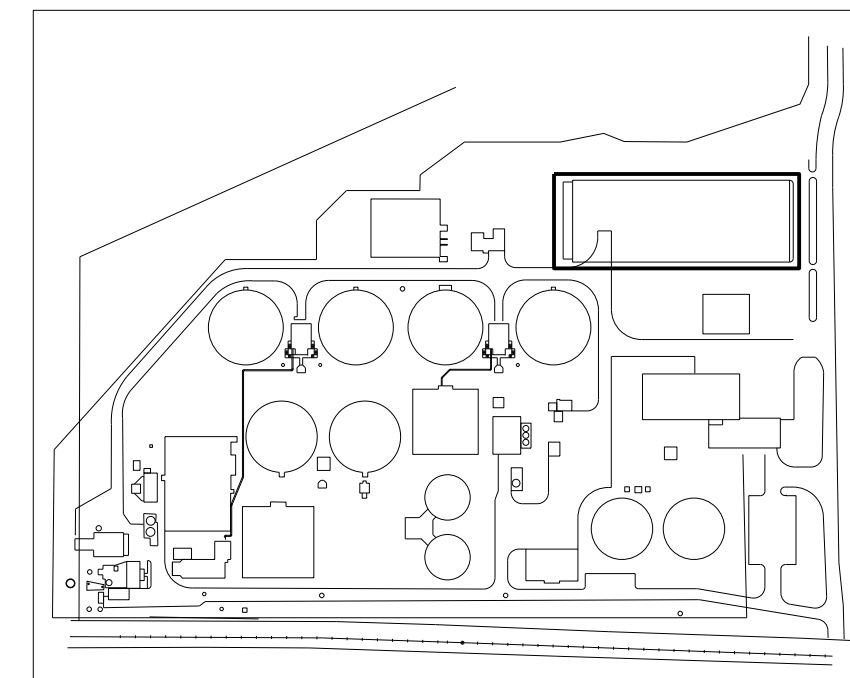
DEWATERING BUILDING POLYMER SYSTEM PLAN - ELECTRICAL E-401

KEYED NOTES

- (A) 3/4" C W/2ND. 14. 1ND. 14(G)
- (B) 3/4" C W/2 16AWG T.S. PAIR BELDEN 5240F1
- (C) 3/4" C W/ONE CAT6 CABLE



1 SCADA RISER DIAGRAM
E-402 SCALE: NONE



DEWATERING BUILDING CONTROL AND SCADA RISER
E-402

2019 WPCF REHABILITATION ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

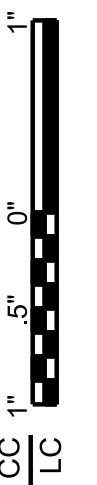
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GMC Project #CSAV190007



ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	CC
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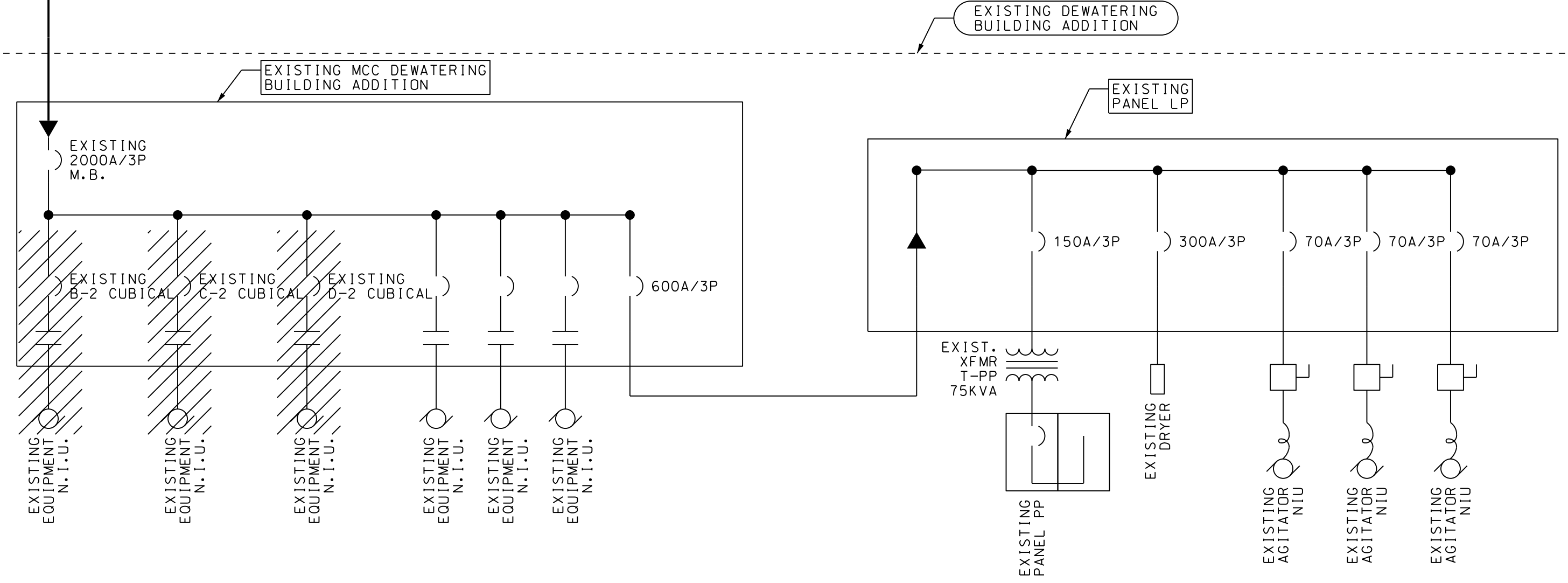
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03-JUN-2020
10:39
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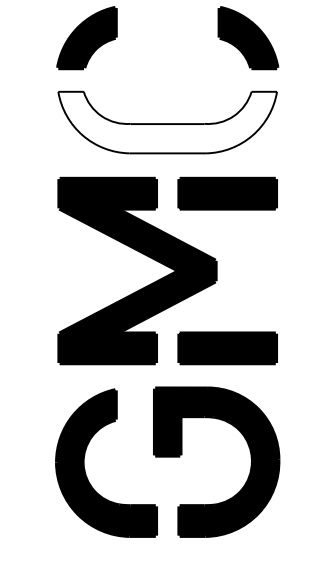
UTILITY PMT
BY GEORGIA POWER
480Y/277V
3-PHASE 4-WIRE
SERVICE THREE OF THREE

EXISTING CT
METER NO.
3529656



1 DEWATERING BUILDING ONE-LINE DIAGRAM - DEMOLITION
E-403 SCALE: NONE

- NOTES:**
- DISCONNECT AND REMOVE THE EXISTING SERVICE FROM THE PAD MOUNTED TRANSFORMER TO SWITCHBOARD SS.
 - DISCONNECT AND REMOVE THE EXISTING NEUTRAL BONDING JUMPER AT SWITCHBOARD SS.



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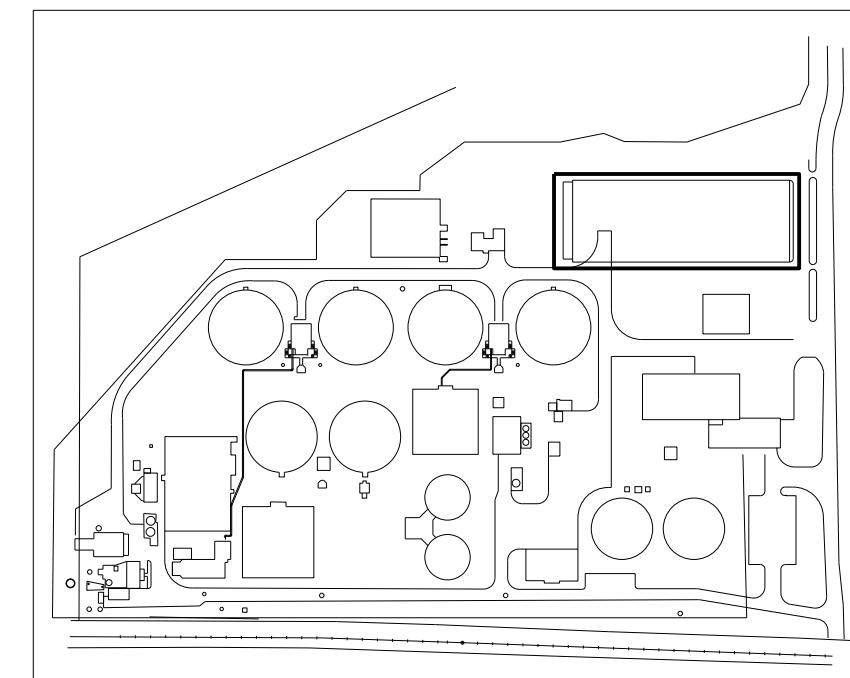
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	CC
DRAWN BY:	LC

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION
BGJWSC Project No. 906
GMC Project #OSAV190007

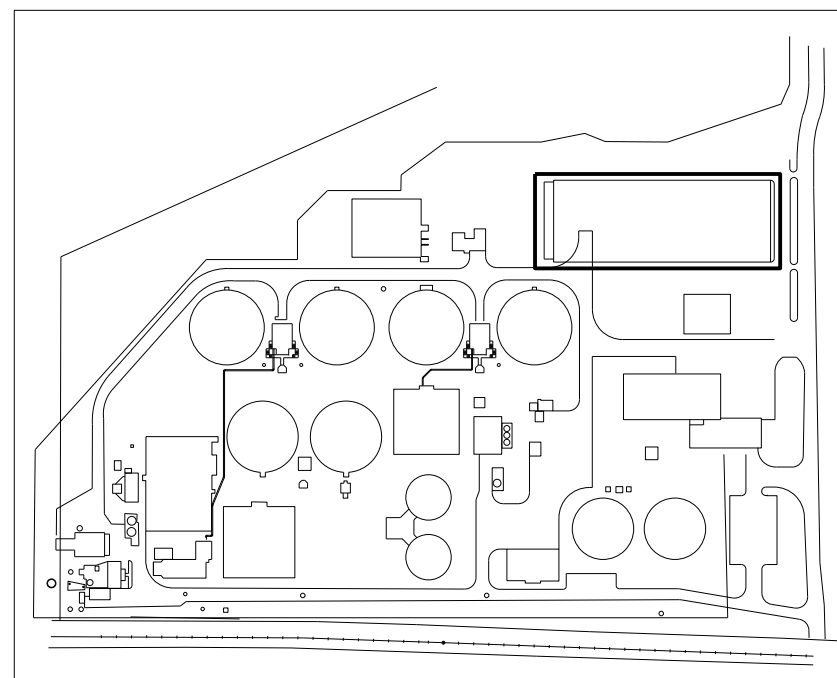
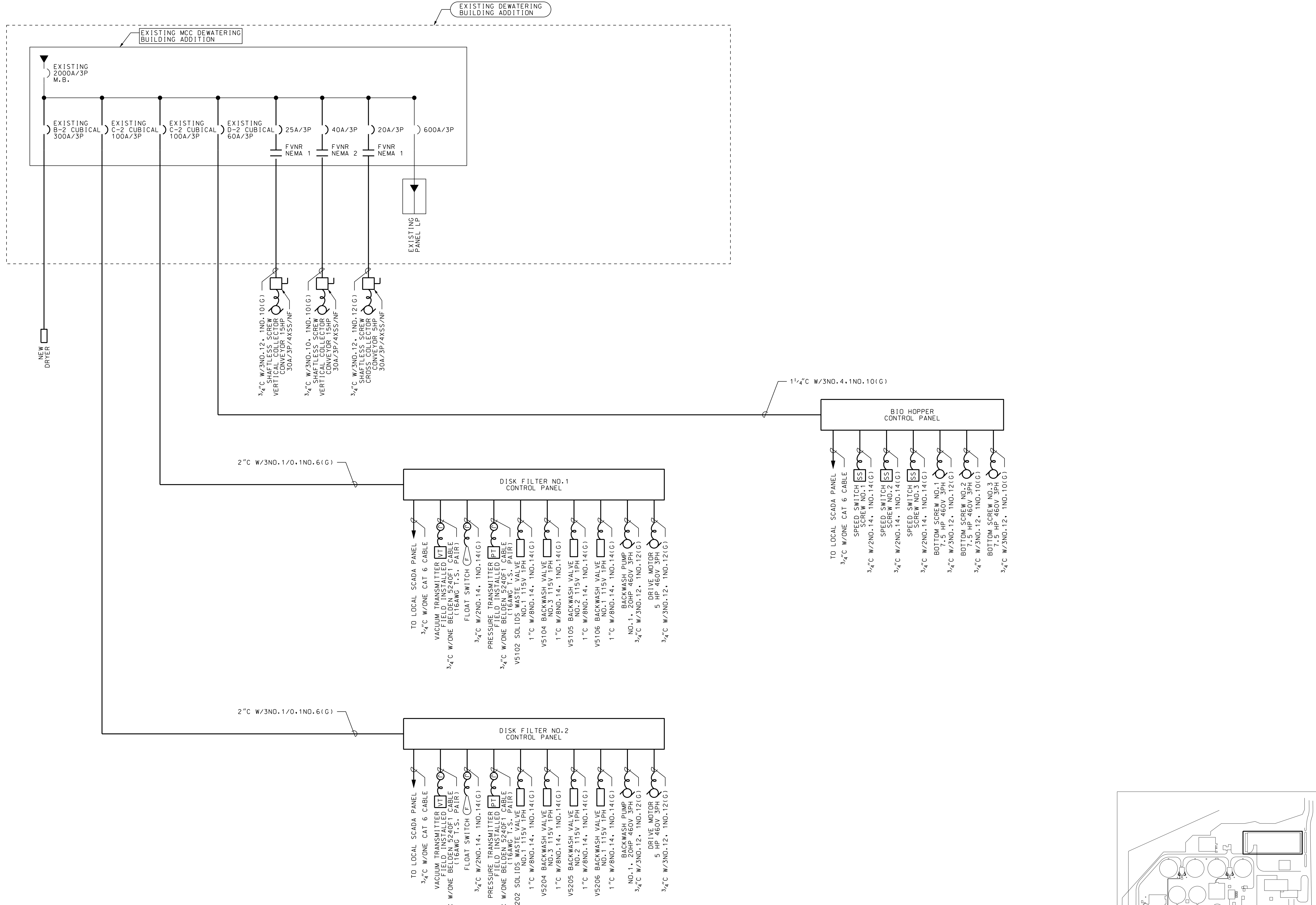


DEWATERING BUILDING
ONE-LINE DIAGRAM

E-403



1 DEWATERING BUILDING ONE-LINE DIAGRAM - RENOVATION
E-404 SCALE: NONE



DEWATERING BUILDING ONE-LINE DIAGRAM

2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



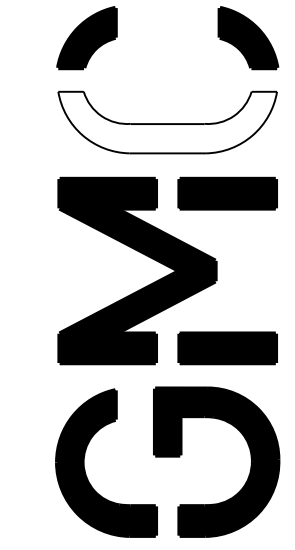
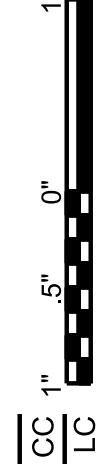
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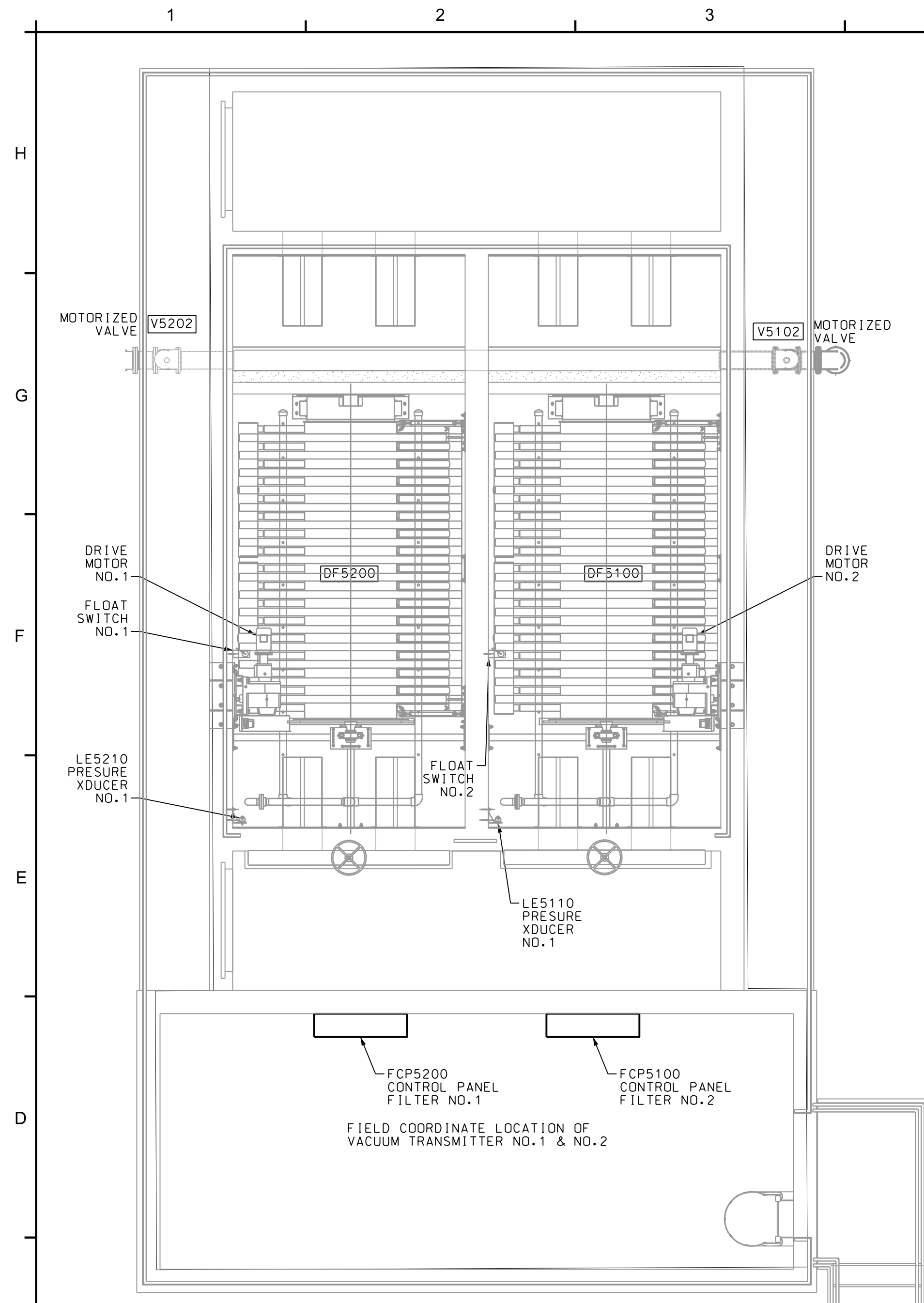
ISSUE DATE

30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	
ENGINEER:	
DESIGNER:	
DRAWN BY:	CC LC

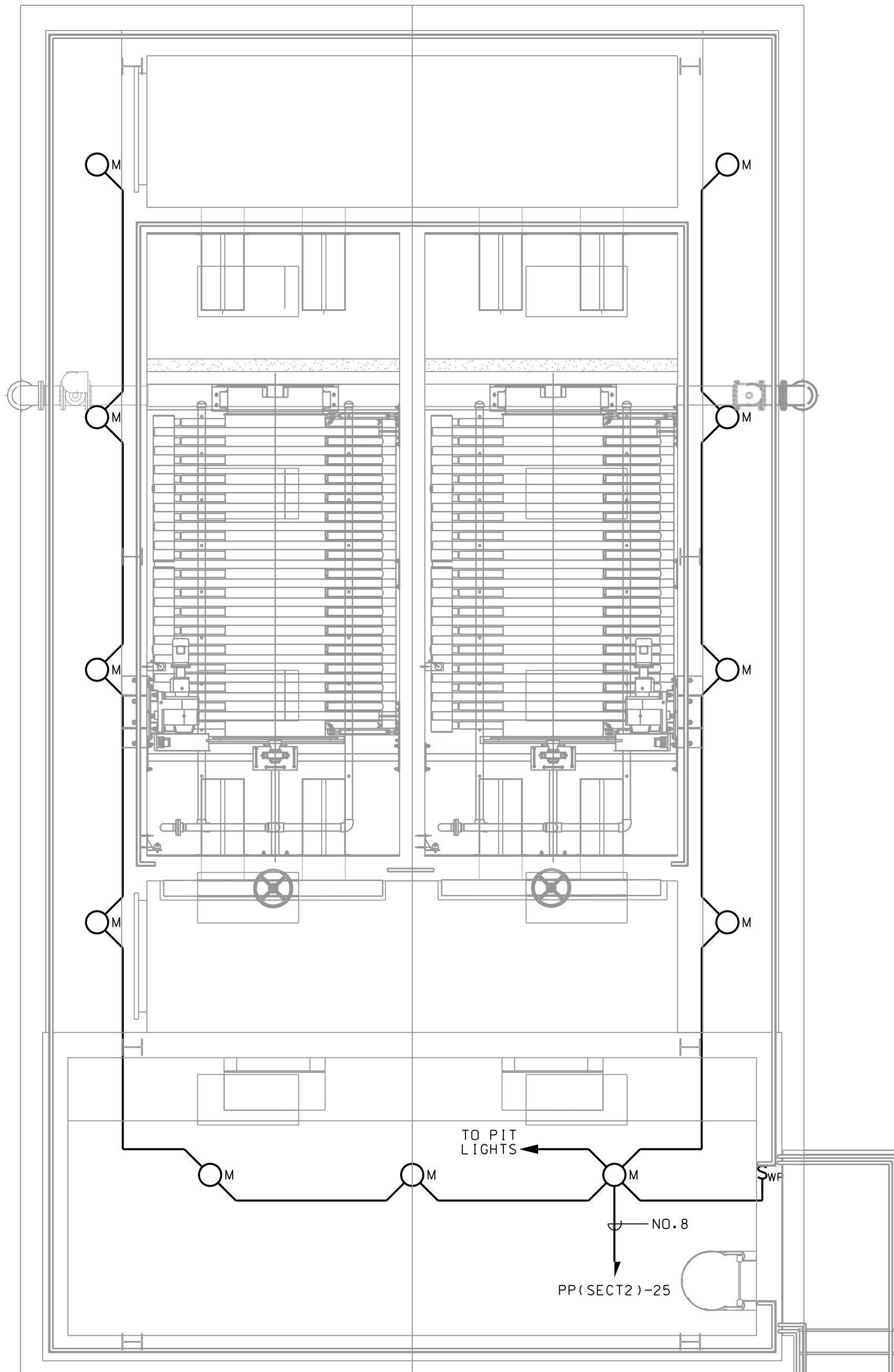
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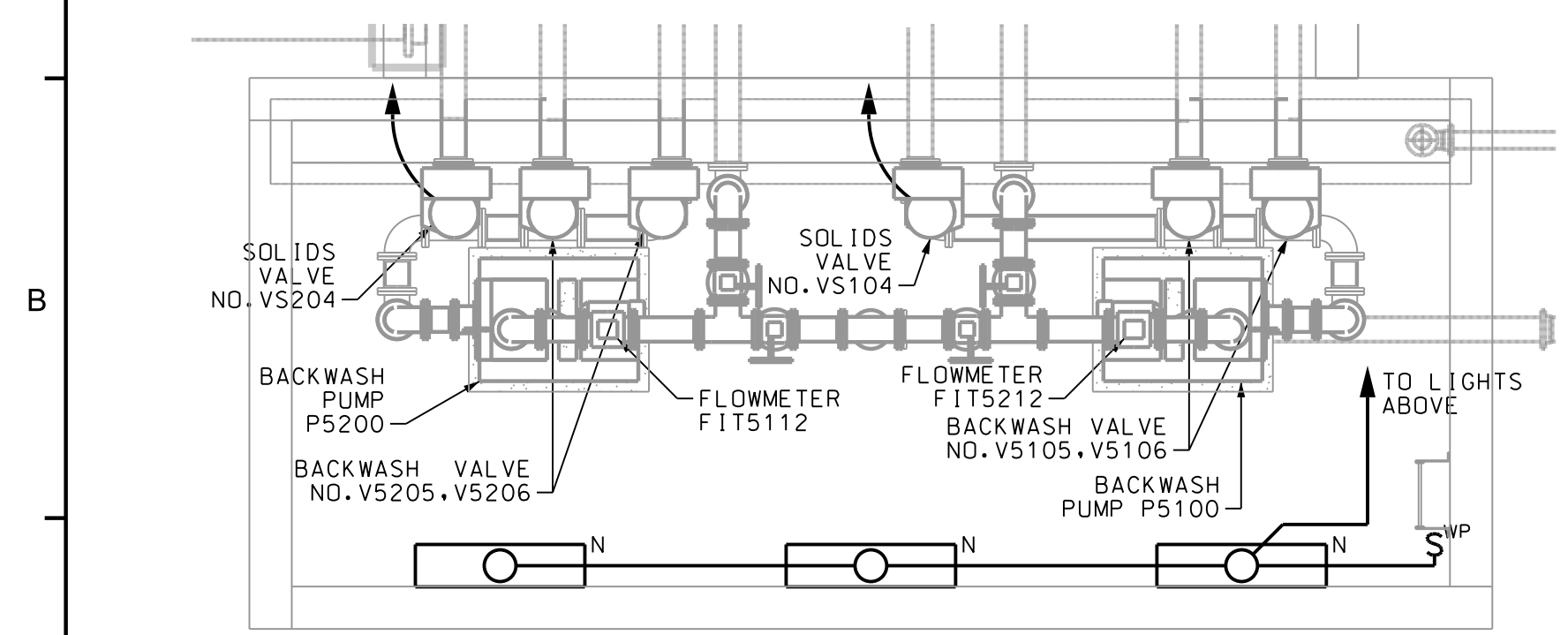




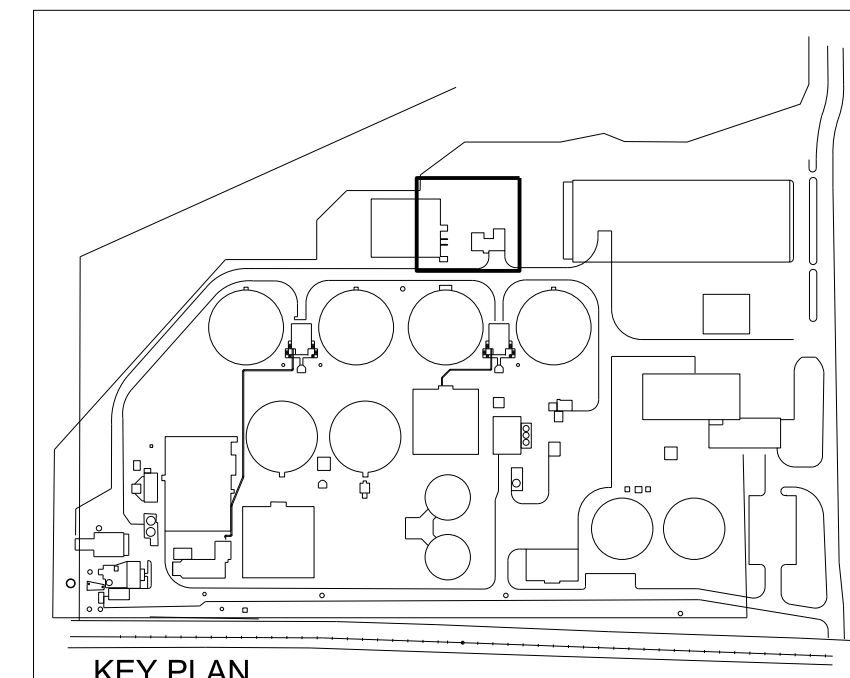
1 DISK FILTER PLAN - ELECTRICAL - UPPER LEVEL
E-501 SCALE: 1/4" = 1'-0"



3 DISK FILTER PLAN - LIGHTING PLAN
E-501 SCALE: 1/4" = 1'-0"



2 DISK FILTER PLAN - ELECTRICAL - LOWER LEVEL
E-501 SCALE: 1/4" = 1'-0"



KEY PLAN

**2019 WPCF REHABILITATION
ACADEMY CREEK**

BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007



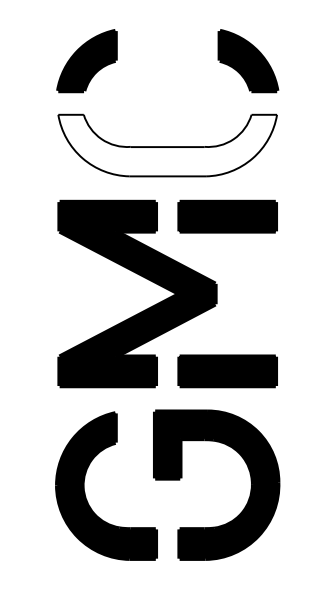
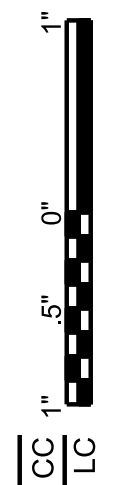
**DISK FILTERS -
ELECTRICAL**

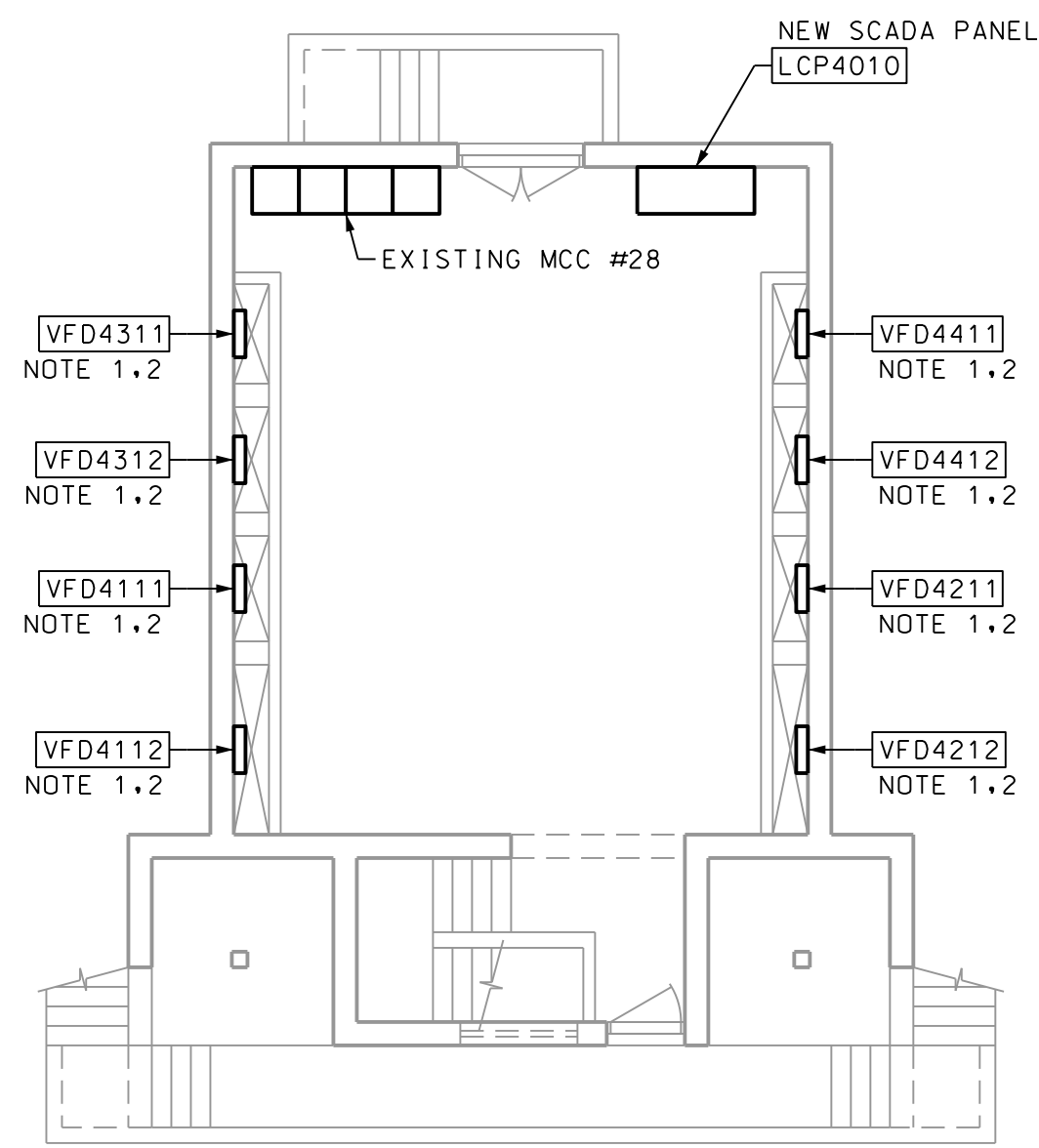
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ISSUE	DATE
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70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
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ENGINEER:	
DESIGNER:	
DRAWN BY:	

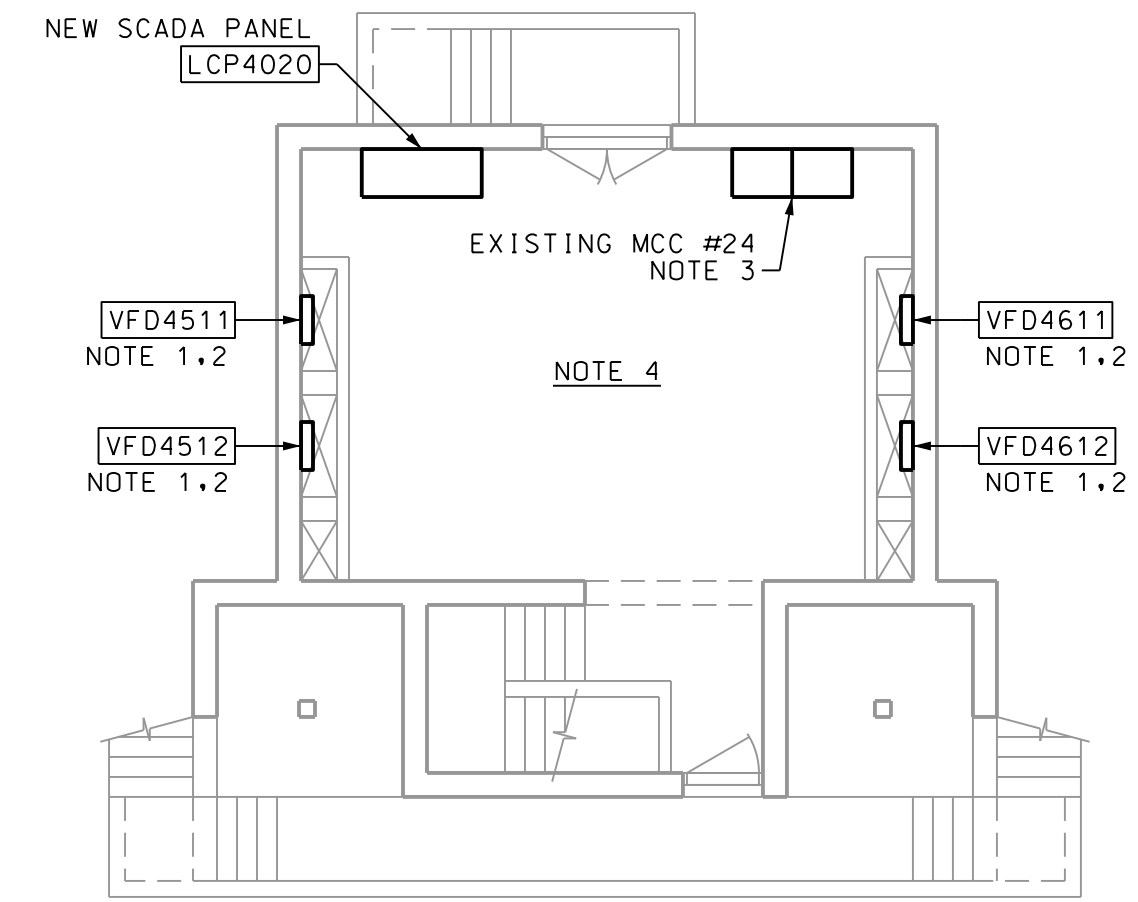
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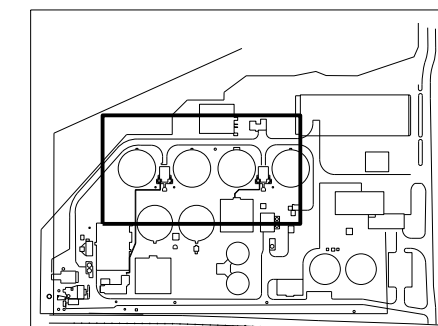
1 RAS BUILDING NO.1 FLOOR PLAN
E-601 SCALE: 1/8" = 1' - 0"



2 RAS BUILDING NO.2 FLOOR PLAN
E-601 SCALE: 1/8" = 1' - 0"

NOTES:

1. DISCONNECT AND REMOVE THE EXISTING RAS PUMP (7.5) VFD. FURNISH AND INSTALL A NEW VFD (7.5HP 460V 3PH). THE NEW DRIVE SHALL HAVE FRONT MOUNTED H-O-A AND SPEED CONTROL AS WELL AS PROGRAMMING LCD SCREEN. FURNISH DRIVE WITH ETHERNET CAT6 CABLE CONNECTION. THE DRIVE SHALL INTERFACE WITH THE NEW IN-PLANT SCADA SYSTEM.
2. EXTEND 3/4" C W/ ONE CAT 6 CABLE FROM EACH VFD TO THE NEW SCADA PANEL.
3. REMOVE THE STARTER CUBICAL SERVING VFD4611.
 - A. FURNISH NEW 12" CUBICAL WITH TWO NEW BREAKERS, DOOR MOUNTED OPERATORS, AND ALL NECESSARY HARDWARE FOR BREAKER OPERATION AND INTERLOCKS.
 - B. PROVIDE A 25A/3P BREAKER FOR VFD4611.
 - C. PROVIDE A 15A/3P BREAKER FOR MOTORIZED VALVE V3003. REFER TO SHEET E-100 FOR LOCATION.
4. IN THE BRANCH CIRCUIT PANEL, PROVIDE A 20A/1P CIRCUIT BREAKER.
 - A. EXTEND 3/4" C W/ 2NO.12, 1NO.12(G) FROM THE PANEL TO FLOWMETER FE3030. REFER TO SHEET E-100 FOR LOCATION.



2019 WPCF REHABILITATION

ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION

BGJWSC Project No. 906
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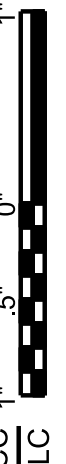
RAS BUILDINGS
ELECTRICAL PLAN

E-601

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ISSUE DATE

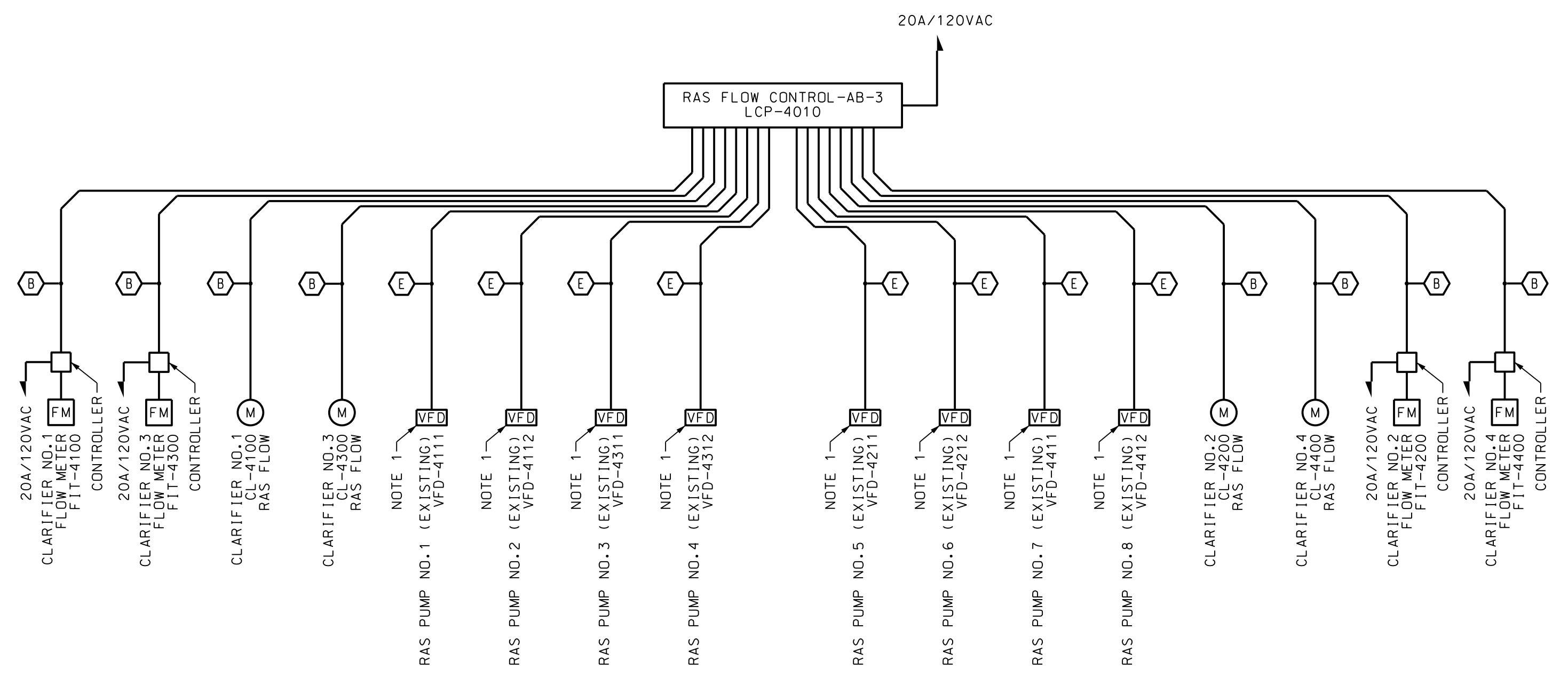
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
DESIGNER:	CC
DRAWN BY:	LC



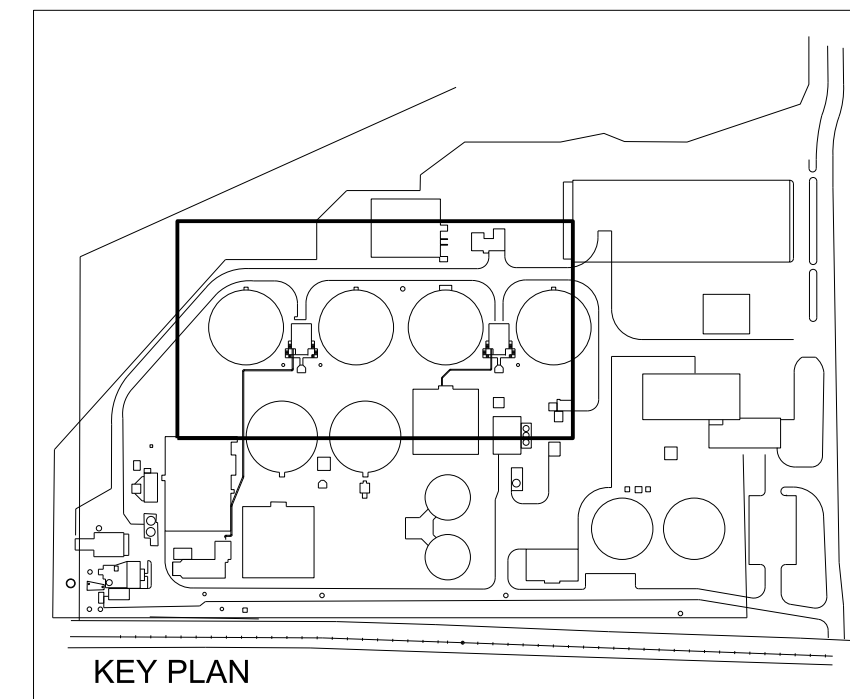
1 2 3 4 5 6 7 8 9 10

H
G
F
E
D
C
B
A

- KEYED NOTES**
- A 3/4" C W/2NO. 14, 1NO. 14(G)
 - B 3/4" C W/2 16AWG T.S. PAIR BELDEN 5240F1
 - C 3/4" C W/6NO. 14, 1NO. 14(G)
 - D 3/4" C W/4NO. 14, 1NO. 14(G)
 - E 3/4" C W/ONE CAT6 CABLE



1 SCADA RISER DIAGRAM
E-602 SCALE: NONE



RAS FLOW CONTROL
LCP-4010 SCADA RISER

2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER
& SEWER COMMISSION

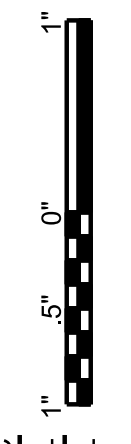
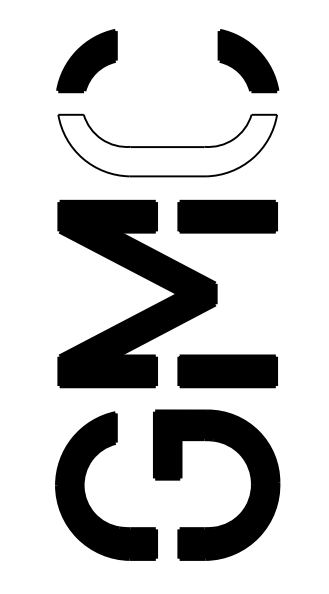
BGJWSC Project No. 906
GMC Project #CSAV190007



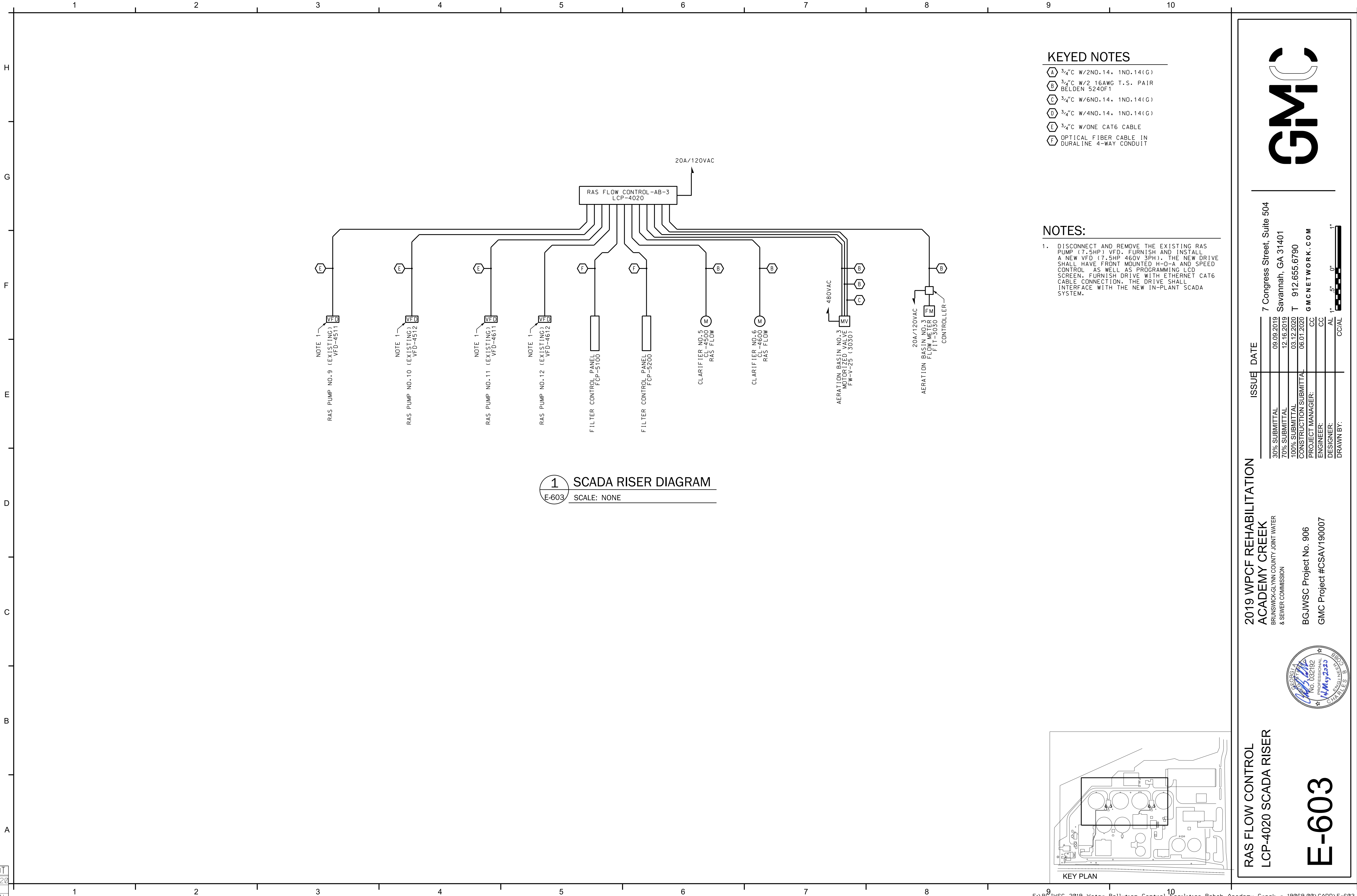
E-602

ISSUE	DATE
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CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
DESIGNER:	AL
DRAWN BY:	CC/AL

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CADD PLOT
14-MAY-2020
12:24
ALAWSON



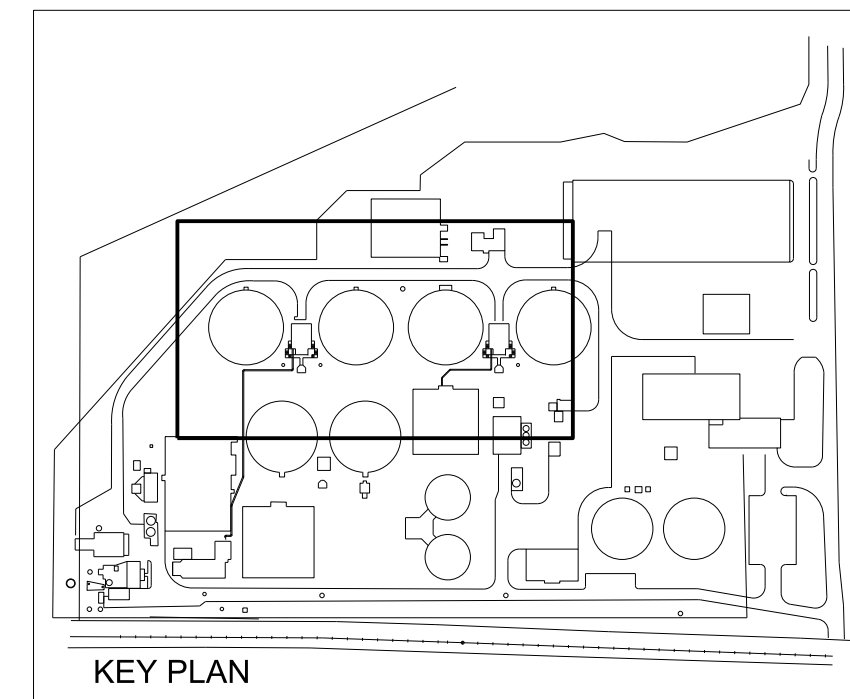
KEYED NOTES

- (A) 3/4" W/2NO. 14, 1NO. 14(G)
- (B) 3/4" W/2 16AWG T.S. PAIR BELDEN 5240F1
- (C) 3/4" W/6NO. 14, 1NO. 14(G)
- (D) 3/4" W/4NO. 14, 1NO. 14(G)
- (E) 3/4" W/ONE CAT6 CABLE
- (F) OPTICAL FIBER CABLE IN DURALINE 4-WAY CONDUIT

NOTES:

- DISCONNECT AND REMOVE THE EXISTING RAS PUMP (7.5HP) VFD. FURNISH AND INSTALL A NEW VFD (7.5HP 460V 3PH). THE NEW DRIVE SHALL HAVE FRONT MOUNTED H-O-A AND SPEED CONTROL AS WELL AS PROGRAMMING LCD SCREEN. FURNISH DRIVE WITH ETHERNET CAT6 CABLE CONNECTION. THE DRIVE SHALL INTERFACE WITH THE NEW IN-PLANT SCADA SYSTEM.

1 SCADA RISER DIAGRAM
E-603 SCALE: NONE



RAS FLOW CONTROL
LCP-4020 SCADA RISER

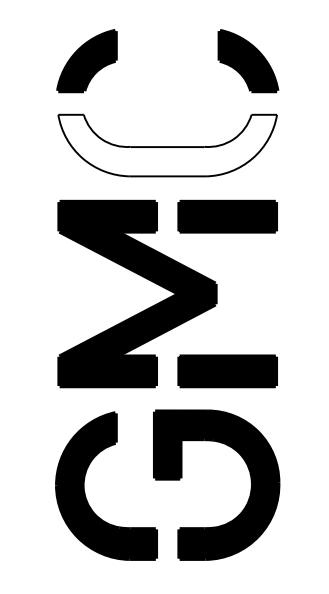
2019 WPCF REHABILITATION
ACADEMY CREEK
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

BGJWSC Project No. 906
GMC Project #CSAV190007

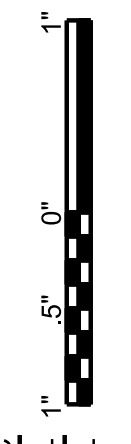


E-603

ISSUE	DATE
30% SUBMITTAL	09.09.2019
70% SUBMITTAL	12.16.2019
100% SUBMITTAL	03.12.2020
CONSTRUCTION SUBMITTAL	06.01.2020
PROJECT MANAGER:	CC
ENGINEER:	CC
DESIGNER:	AL
DRAWN BY:	CC/AL



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CADD PLOT
14-MAY-2020
12:25
ALAWSON