

VICINITY MAP
SCALE: 1" = 600'

PROPERTY INFORMATION

SITE: HAMPTON ARMS COOP
61 & 69 WEST TIANA ROAD
HAMPTON BAYS, NY 11946

SCTM #: 900-256-143.1 & 43.3

GROSS LOT AREA: 5.335 ACRES OR 232,409.25 SF

BUILDING CLASSIFICATION: APARTMENT

GWMZ # ZONE IV (600 GPD/ACRE)

DENSITY CALCULATIONS

ALLOWABLE SANITARY FLOW:

SITE AREA = 5.335 ACRES
GWMZ = IV = 600 GPD/ACRE
ALLOWABLE SANITARY FLOW = 5.335 ACRES X 600 GPD/ACRE = 3,201.00 GPD

GRANDFATHERED SANITARY FLOW

ONE EXISTING 2-STORY BUILDING (28 MOTEL UNITS)

HYDRAULIC LOAD = 225 GPD/UNIT FOR MOTEL UNIT > 400 SF GROSS FLOOR AREA (HOUSING UNIT BETWEEN 601 - 1,200 GROSS FLOOR AREA)

TOTAL SANITARY FLOW = 28 UNITS X 225 GPD/UNIT = 6,300 GPD

PROPOSED SANITARY FLOW

ONE EXISTING 2-STORY BUILDING (28 HOUSING UNITS)

HYDRAULIC LOAD = 225 GPD/UNIT FOR HOUSING UNIT BETWEEN 601 - 1,200 GROSS FLOOR AREA

TOTAL SANITARY FLOW = 28 UNITS X 225 GPD/UNIT = 6,300 GPD

SYSTEM CALCULATIONS

PROPOSED DESIGN FLOW = 6,300 GPD FOR THE PROPOSED BUILDING

FUJI CLEAN MODEL CEN21 DESIGN

TOTAL DESIGN FLOW = 6,300 GPD

REQUIRED: 6,300 GPD
PROVIDED: FOUR (4) 1,900 GALLON FUJI CLEAN CEN21 TREATMENT UNIT

SANITARY LEACHING GALLEY DESIGN

REQUIRED: 6,300 GPD
DESIGN FOR: 6,300 GPD / 1.5 GPD/SF = 4,200 SF
PROVIDED: 2 EFF. DEPTH LEACHING GALLEY HAS 53 SF PER UNIT
4,200 SF / 53 SF/UNIT = 79.2 UNITS
PROVIDE EIGHTY (80) 2' EFF. DEPTH LEACHING GALLEYS

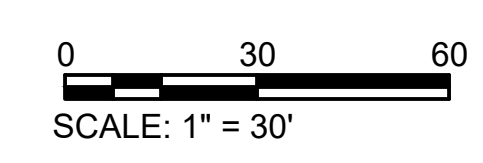
0.0'	MIXED SAND & LOAM	EL. 4.0	0.0'	MIXED SAND & LOAM	EL. 4.0
0.5'	BROWN SILTY SAND (SM)	EL. 3.5	0.5'	BROWN SILTY SAND (SM)	EL. 3.5
2.0'	BROWN SILTY SAND (SM)	EL. 2.0	2.0'	PALE BROWN FINE SAND (SP)	EL. 2.0
2.7'	WATER IN BROWN SILTY SAND (SM)	EL. 1.3	2.7'	WATER IN PALE BROWN FINE SAND (SP)	EL. 1.3
3.0'	WATER IN PALE BROWN FINE SAND (SP)	EL. 1.0			
8.0'	WATER IN PALE BROWN FINE TO COARSE SAND (SW)	EL. -4.0	8.0'	WATER IN PALE BROWN FINE TO COARSE SAND (SW)	EL. -4.0
17.0'		EL. -13.0	17.0'		EL. -13.0

B1 TEST HOLE DATA
DECEMBER 8, 2021
MCDONALD GEOSERVICES

B2 TEST HOLE DATA
DECEMBER 8, 2021
MCDONALD GEOSERVICES

NOTE: GROUNDWATER ENCOUNTERED 2.7' BELOW THE GRADE (EL. 1.3).

OVERALL SITE PLAN
SCALE: 1" = 30'



NOTES

- ALL PROPOSED PIPING TO BE 4" O.D. SDR-35, EXCEPT WHERE INDICATED.
- SANITARY SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL SCDHS REQUIREMENTS.
- ALL ELEVATIONS ARE IN NAVD83.
- NO PROPOSED STORM DRAINS WITHIN 10' OF THE PROPOSED SANITARY SYSTEM, UNLESS OTHERWISE SHOWN ON PLANS.
- ALL NEIGHBORING PROPERTIES WITHIN 150 FT OF THE SANITARY SYSTEM ARE CONNECTED TO PUBLIC WATER.
- THE SITE IS ADJUT TO THE TIANA BAY.
- NO PROPOSED OR EXISTING GAS UTILITY LINES.

SCDHS APPROVAL BOX

Drawing Number: **C-101**

Sheet 1 of 4

PWGC Project Number: **BWE2105**

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SURVEY

- SURVEY INFORMATION PROVIDED BY ALPHONSE DESRE, JR. DATED MAY 26, 2017.
- SURVEY AND PLAN INFORMATION PROVIDED BY DOLLIVER ASSOCIATES LAND SURVEYORS DATED SEPTEMBER 12, 1984.

PWGC
CLIENT DRIVEN SOLUTIONS
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CONSULTANTS

Number	Revision Description	Revision Date
7		
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Designed by: **BAG** Date Submitted: _____
 Drawn by: **LT** Date Created: **04/23/2021**
 Approved by: **BAG** Scale: **AS NOTED**

HAMPTON ARMS COOP
61 WEST TIANA ROAD
HAMPTON BAYS, NY 11946

HAMPTON ARMS COOP
SANITARY SYSTEM
UPGRADES

Project Address:
61 & 69 WEST TIANA ROAD
HAMPTON BAYS, TOWN OF SOUTHAMPTON
SUFFOLK COUNTY, NEW YORK

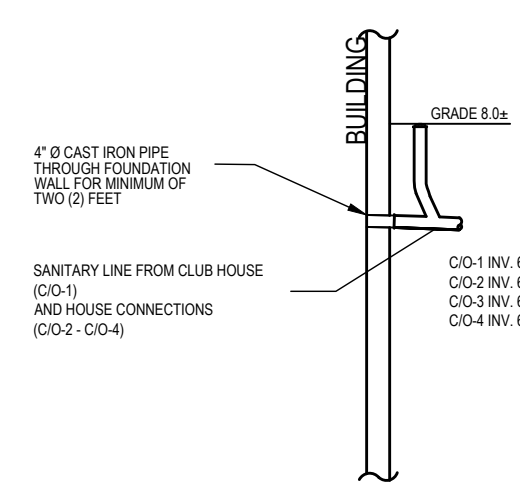
County Tax Map Number: **900-256-1-43.1 & 43.3** Contract Number: **BWE2105**
 Regulatory Reference Number: _____

OVERALL SITE PLAN

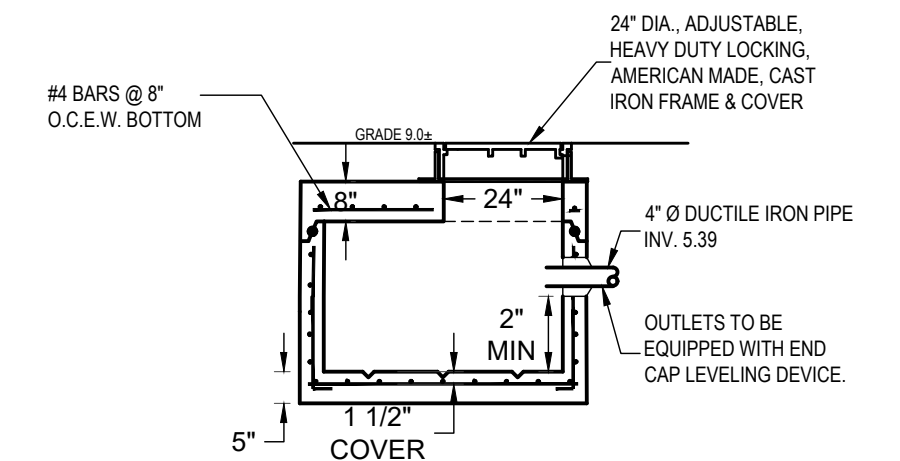
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Sheet 1 of 4

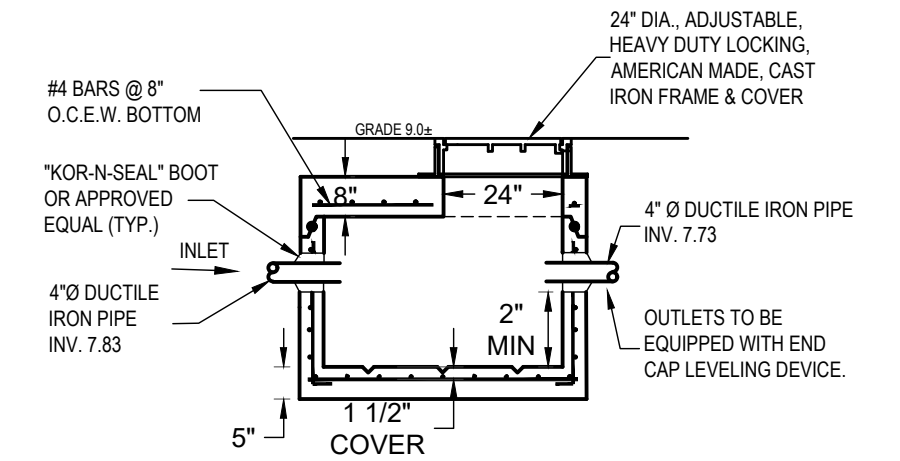
PWGC Project Number: **BWE2105**



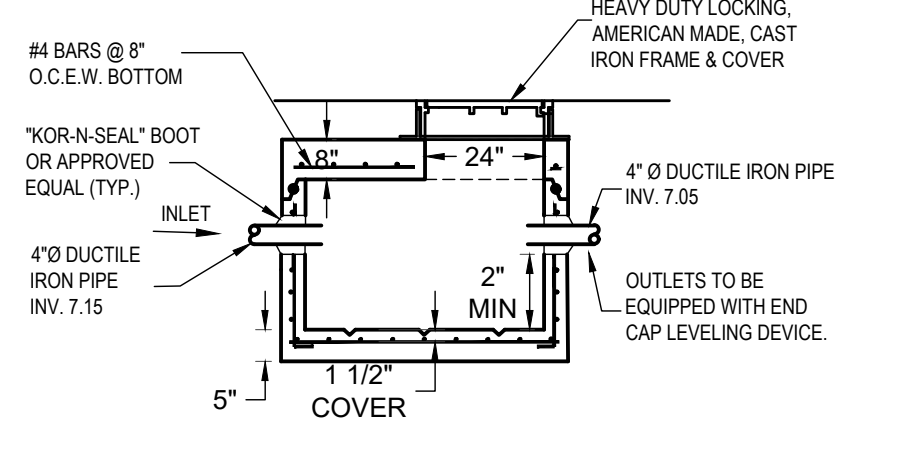
CLEANOUT DETAIL
SCALE: NTS



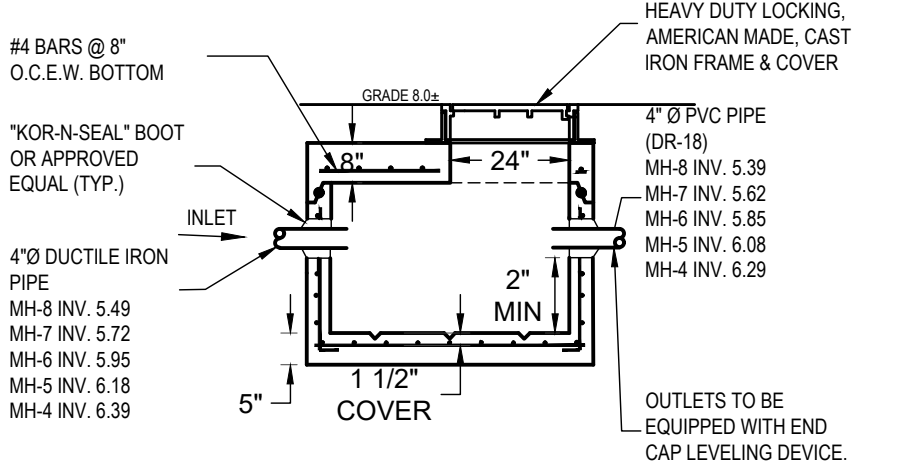
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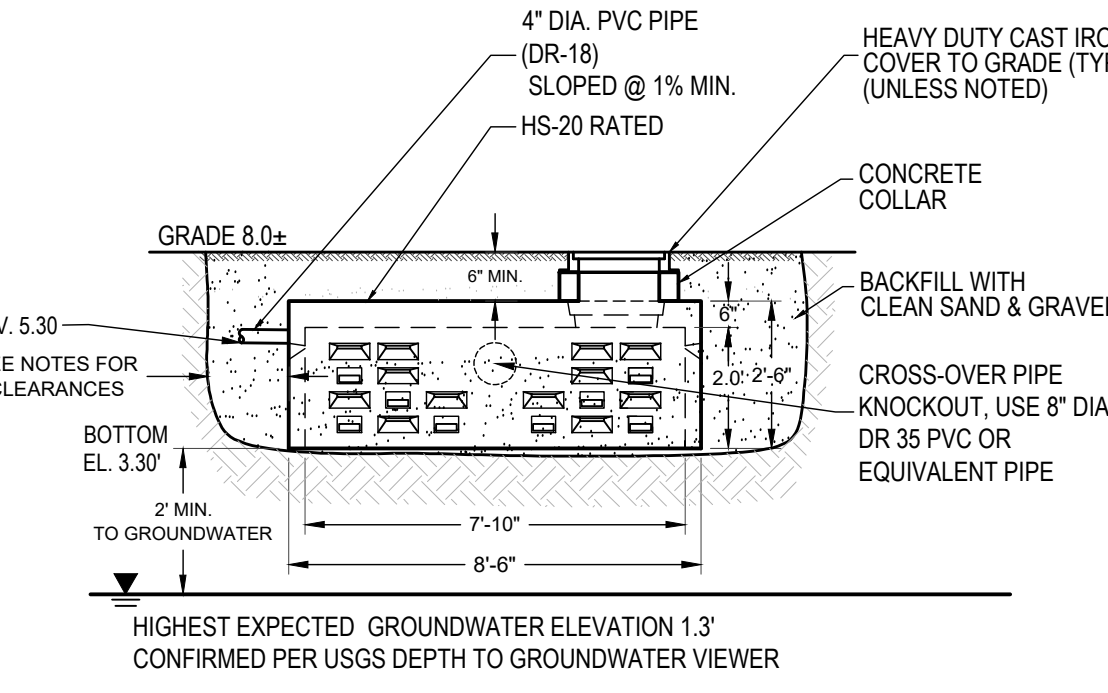


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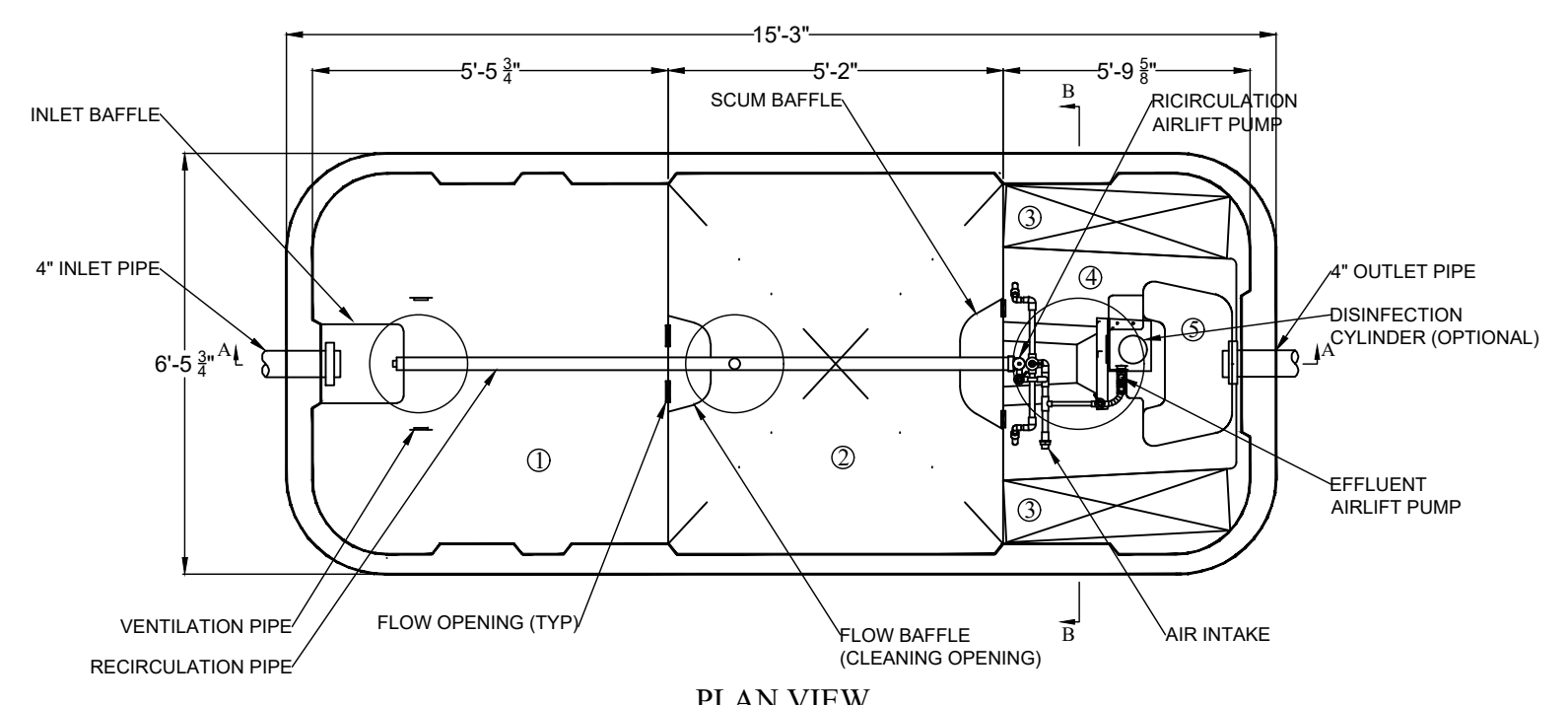
- NOTES:
- ALL MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. C-478, LATEST REVISION STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE M.H. SECTIONS.
 - MANHOLE RISER SECTION TO BE FURNISHED IN 12.3, OR 4' HEIGHTS AS REQUIRED.
 - MANUFACTURER TO CERTIFY THAT MANHOLES DELIVERED MEET ALL REQUIREMENTS OF S.C.D.P.W. SPECS.
 - LOADING TO CONFORM TO AASHTO H-20 LOADING
 - REBAR TO CONFORM TO ASTM A-615 (60 F#-60,000PSI)
 - WELDED WIRE MESH TO CONFORM TO A.S.T.M. A186 F#-65,000PSI
 - CONCRETE TO BE 4000PSI @ 28 DAYS
 - FLAT SLAB TOPS (NO JOINT) MUST HAVE TOP & BOTTOM STEEL



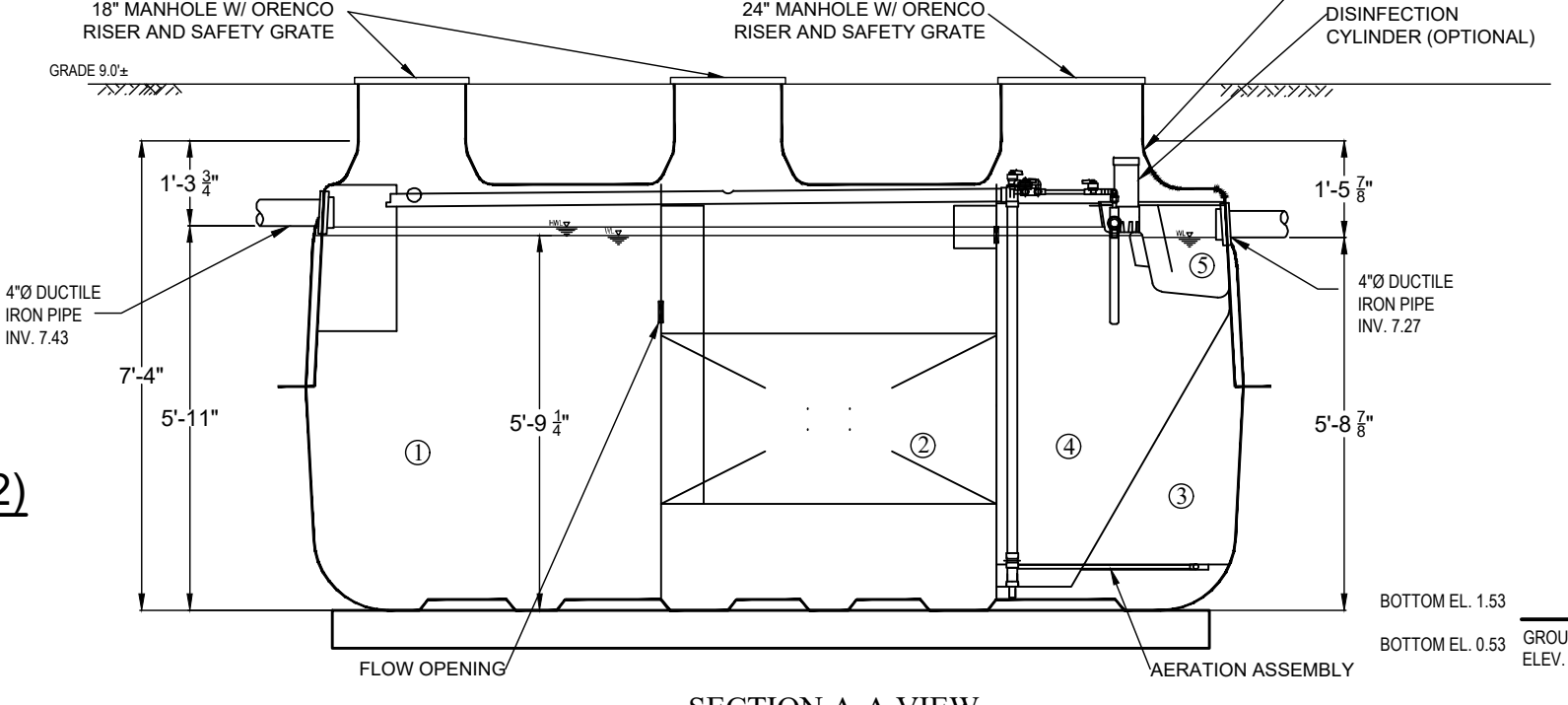
LEACHING GALLEY DETAIL
SCALE: NTS

- NOTE:
- SLABS, DOMES, COVERS TO BE PRECAST REINFORCED CONCRETE, TRAFFIC BEARING AASHTO HS-20 LOADING.
 - DESIGN CONCRETE COMPRESSIVE STRENGTH = 4,000 PSI AT 28 DAYS.
 - OPENINGS TO BE 24 INCH MINIMUM WITH WATERTIGHT AND INSECT-PROOF LOCKING CAST IRON COVER.
 - PRECAST CHIMNEYS SHALL BE UTILIZED TO BRING COVERS TO GRADE.
 - SPACING OF LEACHING GALLEYS SHALL BE 4' BETWEEN ROWS AND 2' BETWEEN GALLEYS, AS PER SCDHS REQUIREMENTS.
 - LEACHING GALLEYS TO BE MANUFACTURED BY LONG ISLAND PRECAST OR PELKOWSKI PRECAST CORPORATION, AS APPROVED BY SCDHS.

SCDHS APPROVAL BOX



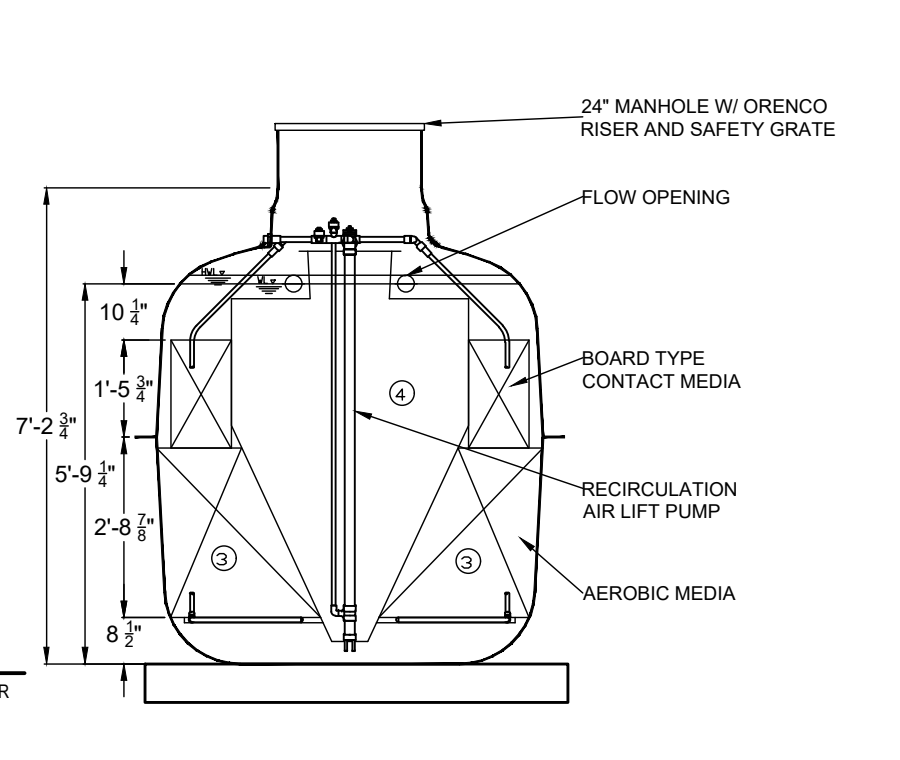
PLAN VIEW



SECTION A-A VIEW

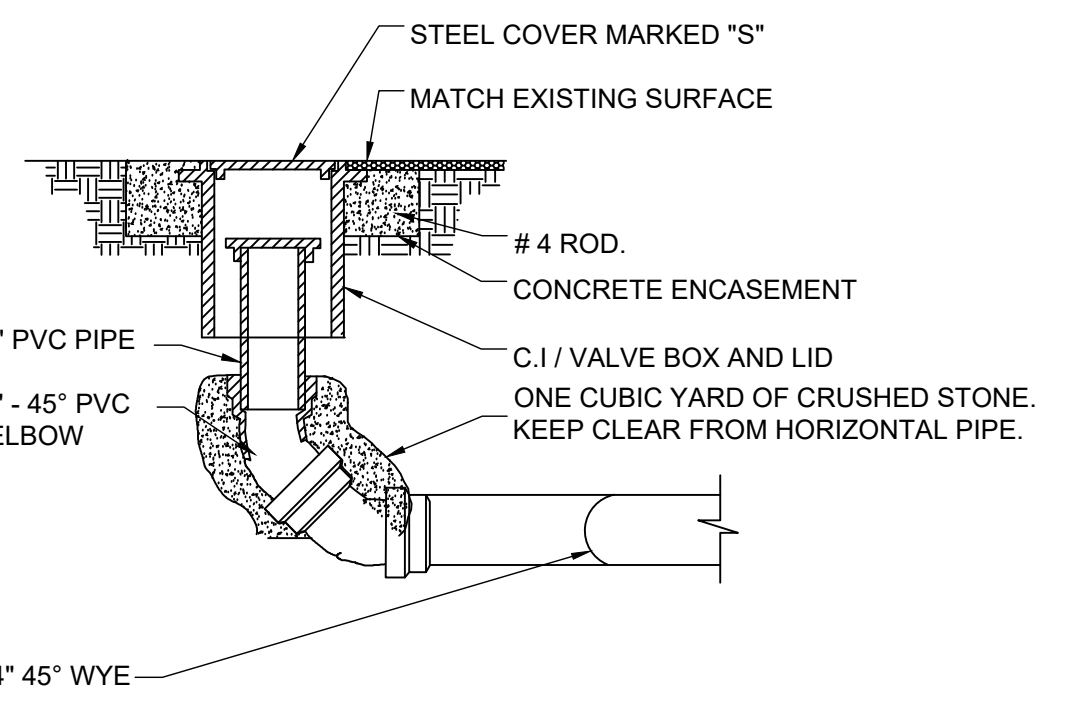
CHAMBER	Volume (gal)
① Sedimentation Chamber	1,200
② Anaerobic Filtration Chamber	1,198
③ Aerobic Contact Filtration Chamber	550
④ Clarification Chamber	268
⑤ Disinfection Chamber	17
Total Volume	3,233

SPECIFICATIONS	
Anaerobic Media	PP / PE
Board Type Aerobic Media	PVC / PP / PE
Aerobic Media	PP / PE
Blower	7' dia
Tank	FRP
Piping	PVC / PP / PE
Access Covers	Plastic / Cast Iron
Disinfectant (Optional)	Chlorine Tablets

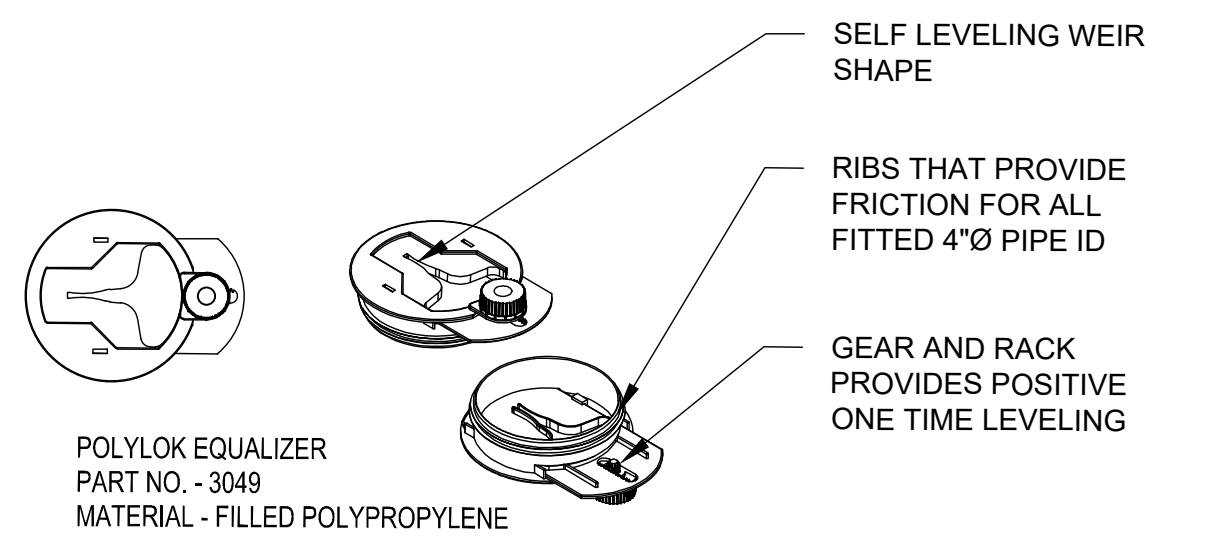


SECTION B-B VIEW

1,900 GAL. FUJI CLEAN TREATMENT UNIT - CEN 21
SCALE: NTS



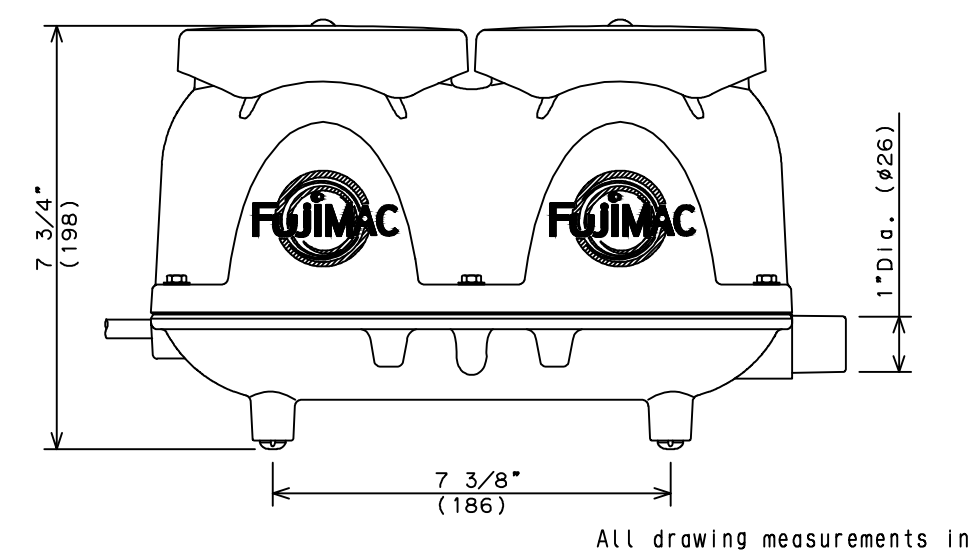
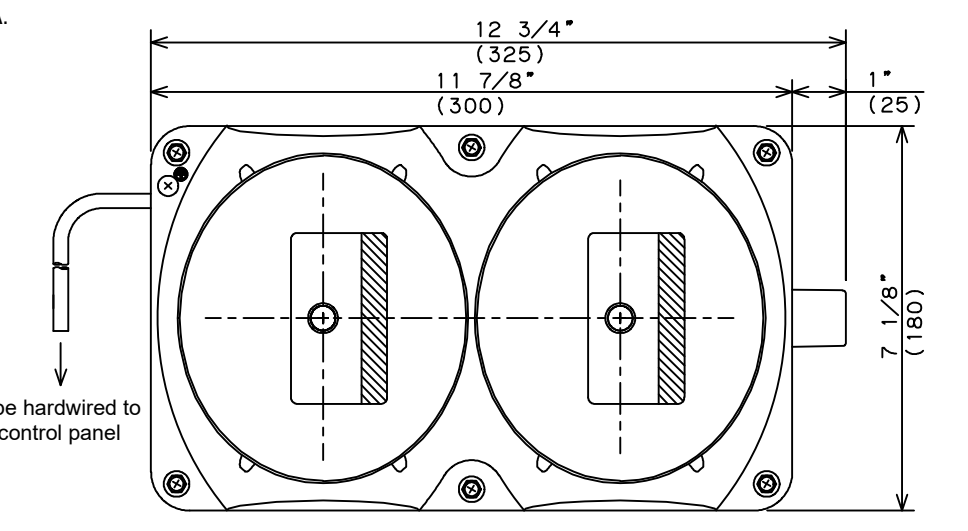
SANITARY CLEANOUT DETAIL
SCALE: NTS



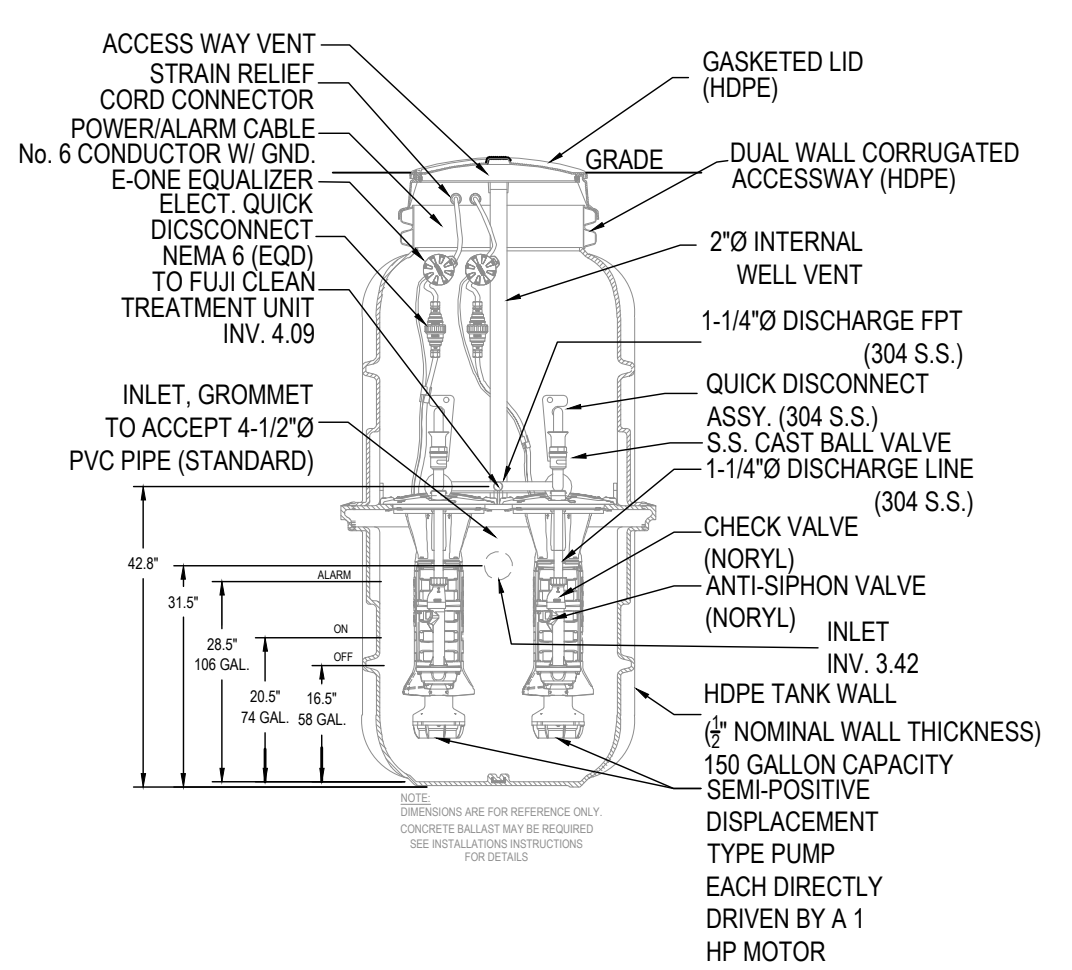
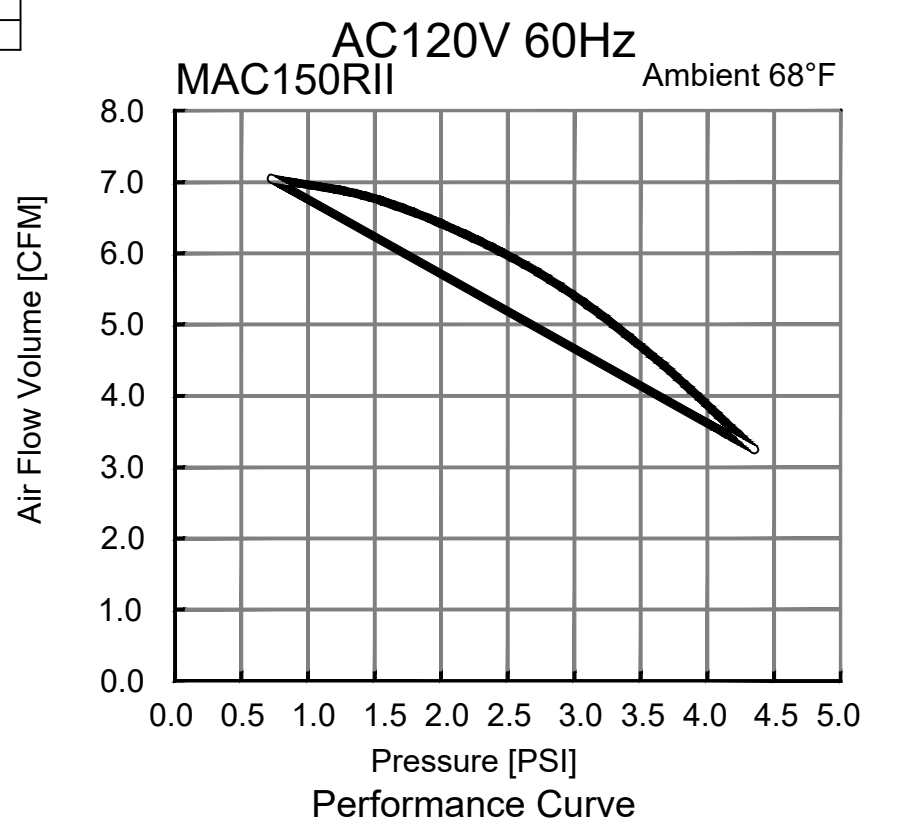
END CAP LEVELING DEVICE DETAIL
SCALE: NTS

Specifications		
Model	MAC150R11	MAC200R11
Air Flow Volume	CFM 5.3	7.1
	L/mth 150	200
Normal Pressure	PSI 2.9	20
	kPa 20	
Rated Voltage	V AC120	
Frequency	Hz 60	
Power Consumption	W 115	155
Weight	lbs. Approx. 20	
	kg. Approx. 9	
Outlet Pipe Diameter	Inch 1"	
Power Cord Length	Inch 6'2"	
UL file number	E341420	
Country of origin	Japan	

- Installation / Operation & Maintenance Notes:
- Install blower on leveled solid base. Ensure adequate ventilation and protect against direct sunlight.
 - Inspect and clean internal air filter once every 3 months. Recommend diaphragm / valve assembly replacement once every 12 months.
 - (Note: A torn diaphragm will trigger the Automatic-Stop function.)
 - Please make sure to follow the instruction manual.

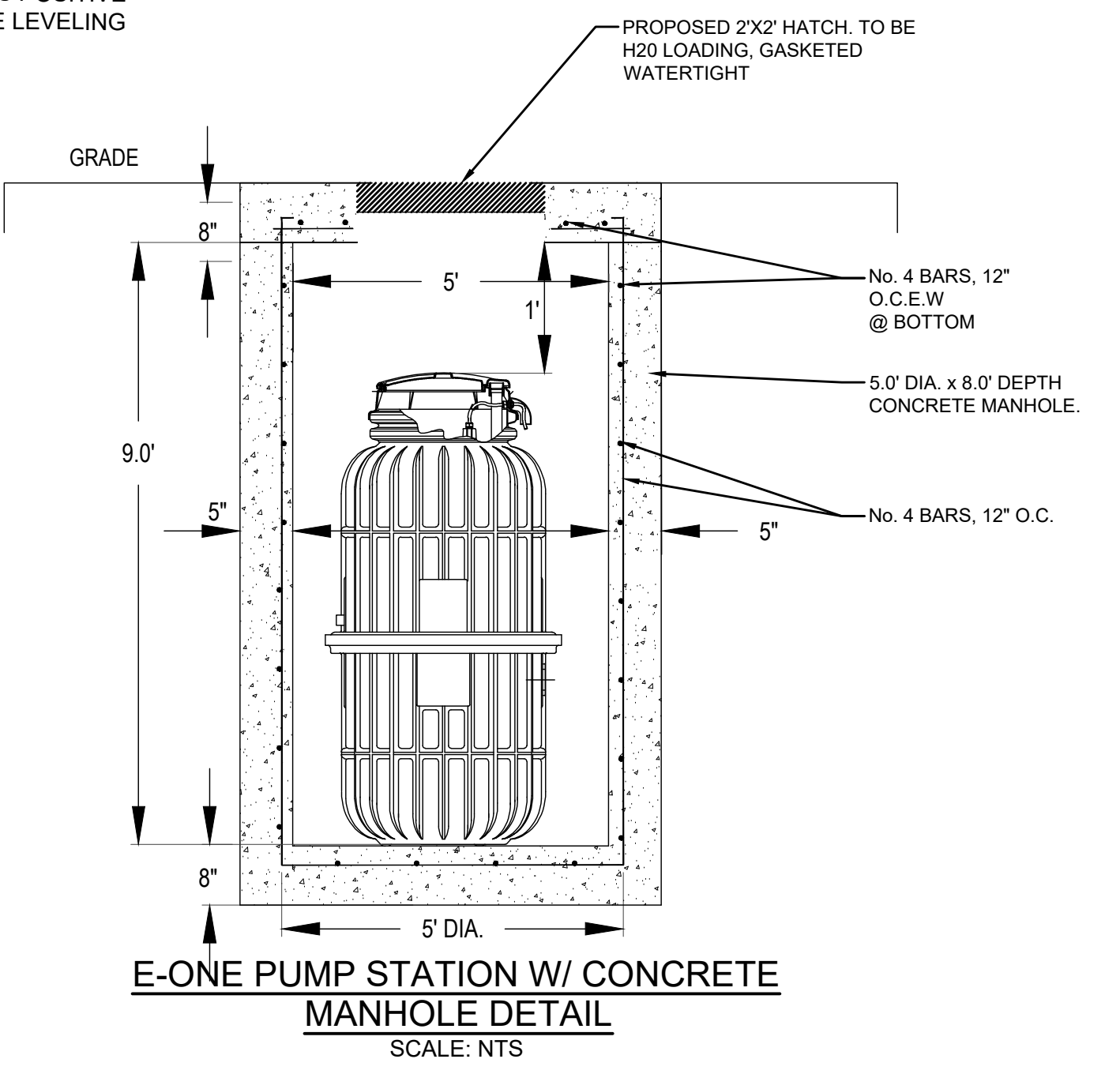


FUJI MAC150R11 BLOWER DETAIL
SCALE: NTS



E-ONE PUMP DETAIL
SCALE: NTS

- NOTE:
- PROVIDE FLOOD PROOF VENT AND LID.
 - PROVIDE RISERS AS NECESSARY TO ELEVATE LIT TO GRADE.
 - PUMP SHALL BE EXPLOSION PROOF.



E-ONE PUMP STATION W/ CONCRETE MANHOLE DETAIL
SCALE: NTS

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61 WEST TIANA ROAD
HAMPTON BAYS, NY 11946

Project: **HAMPTON ARMS COOP**
SANITARY SYSTEM
UPGRADES

Project Address: **61 & 69 WEST TIANA ROAD**
HAMPTON BAYS, TOWN OF SOUTHAMPTON
SUFFOLK COUNTY, NEW YORK

County File Number: **900-256-1-43.1 & 43.3** Contract Number: **BWE2105**
 Regulatory Reference Number: _____ Scale: _____

Title of Drawing: _____

SYSTEM DETAILS

Drawing Number: **C-102**

Sheet **2** of **4**

PWGC Project Number: **BWE2105**

SCDHS APPROVAL BOX

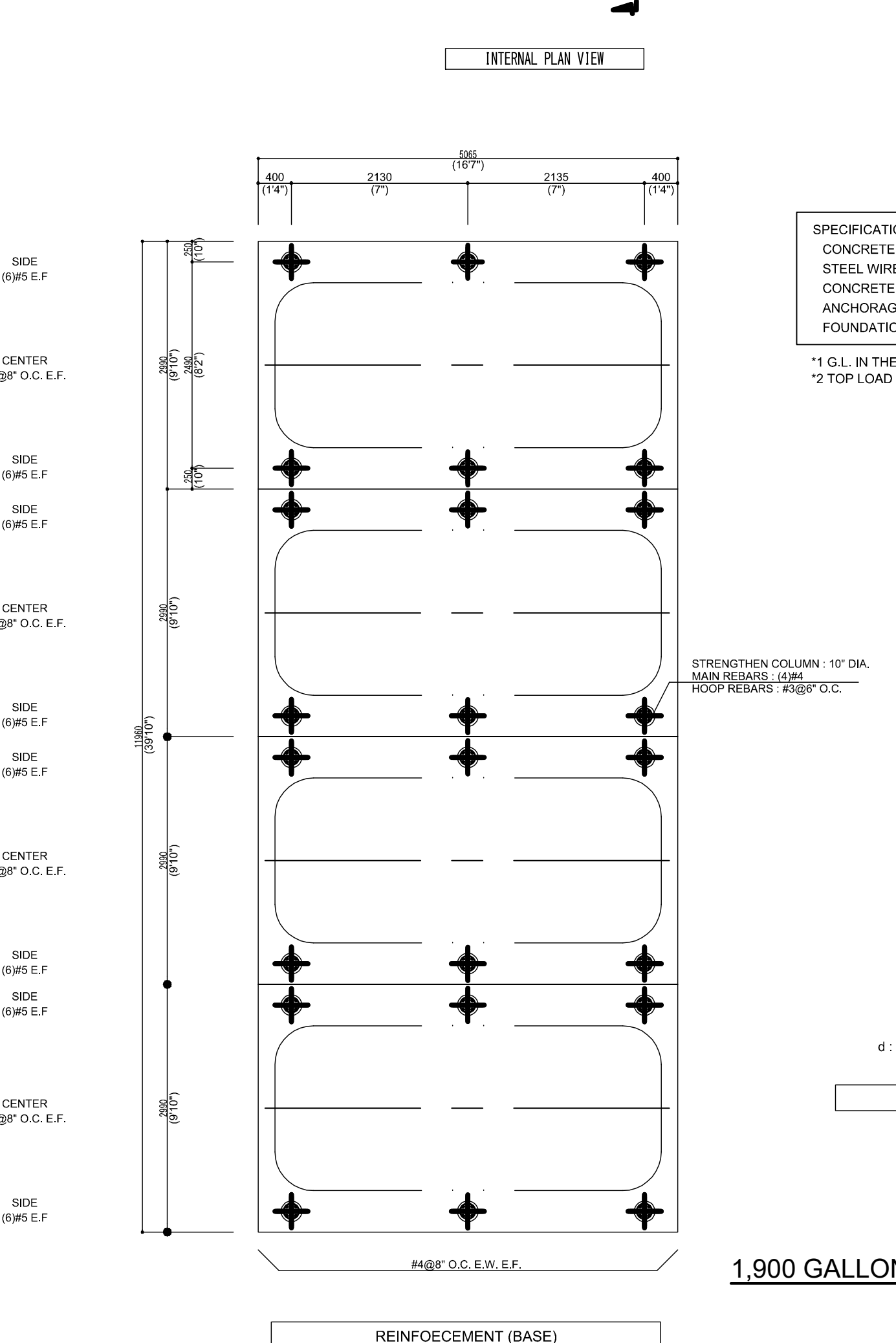
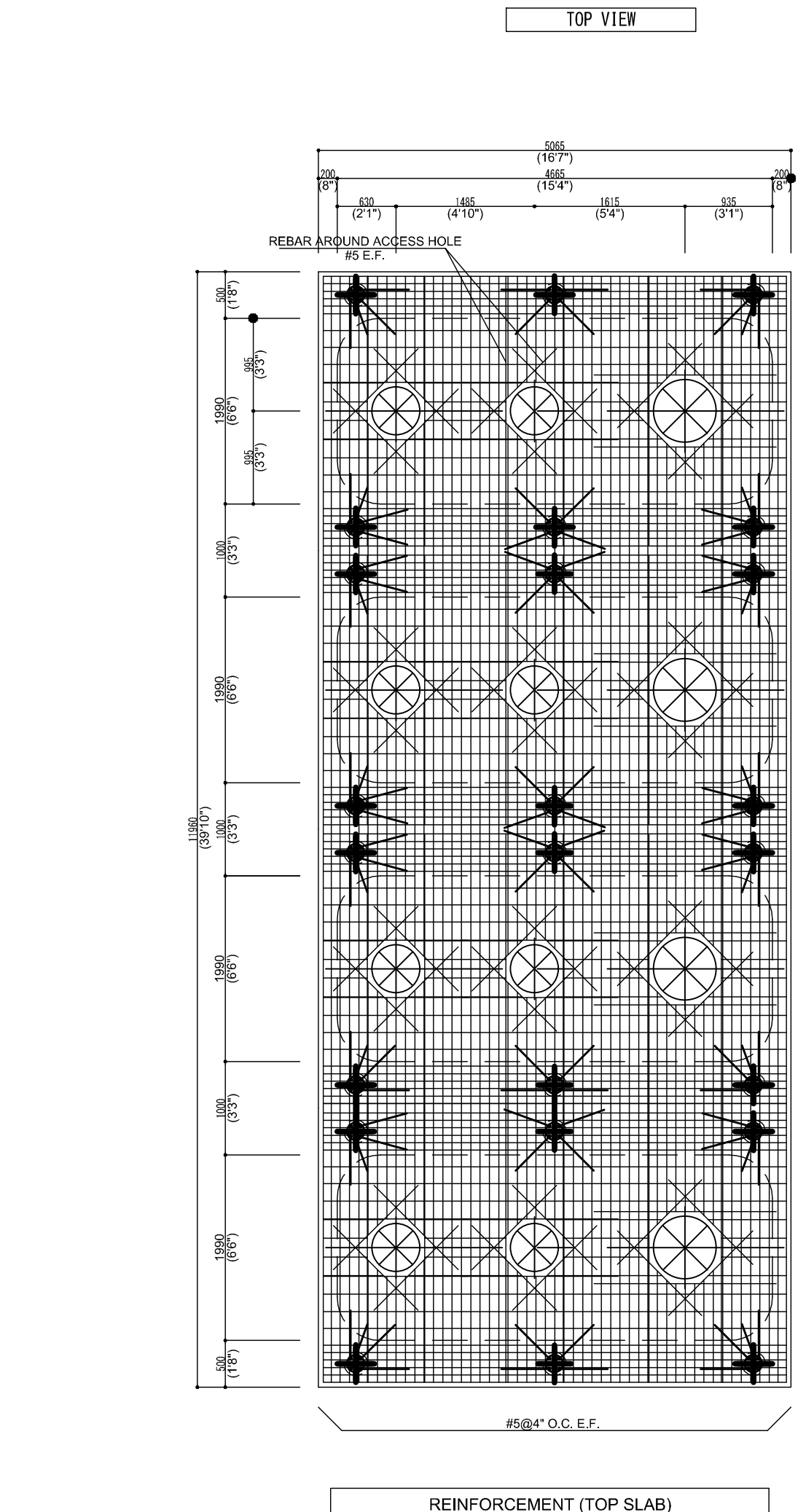
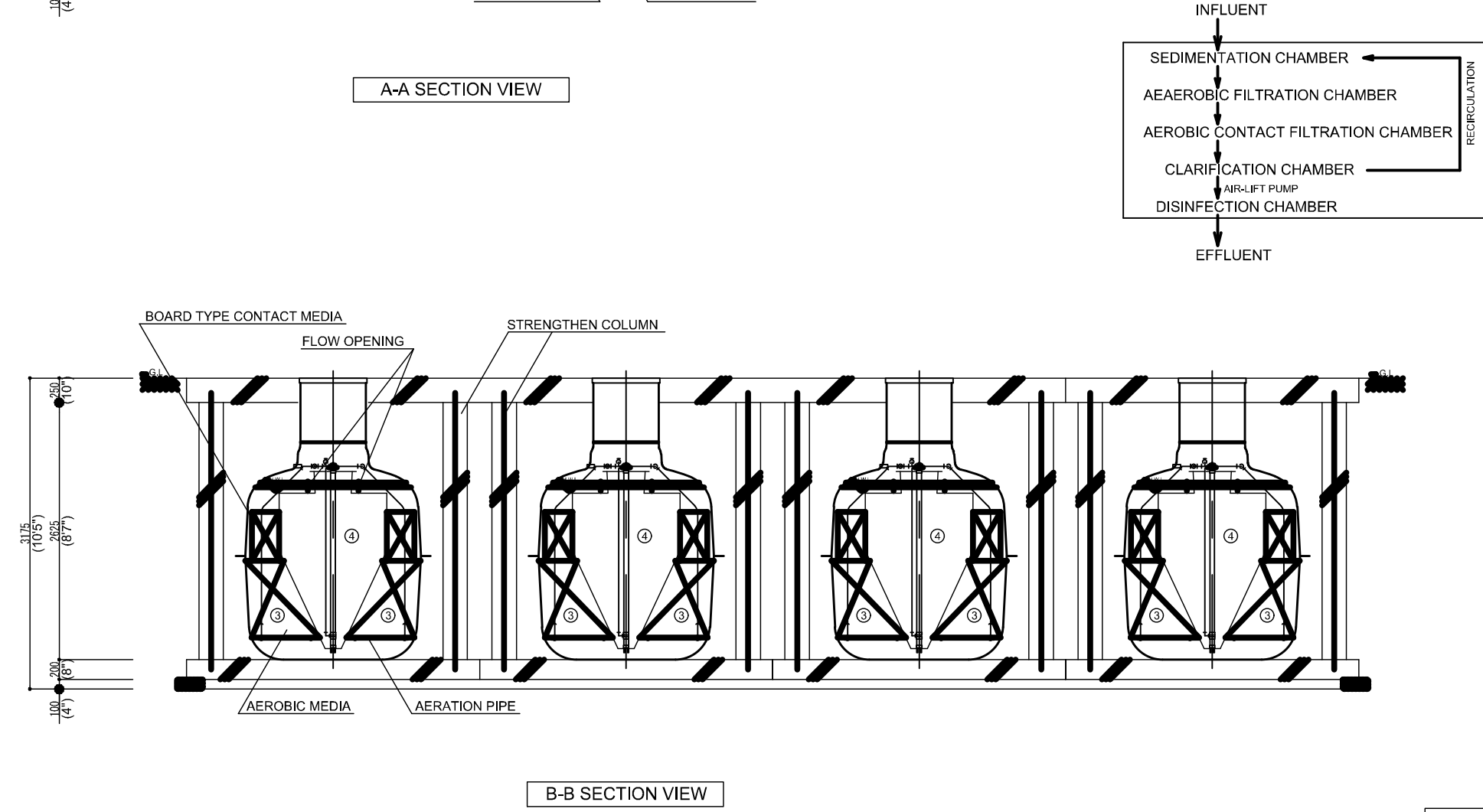
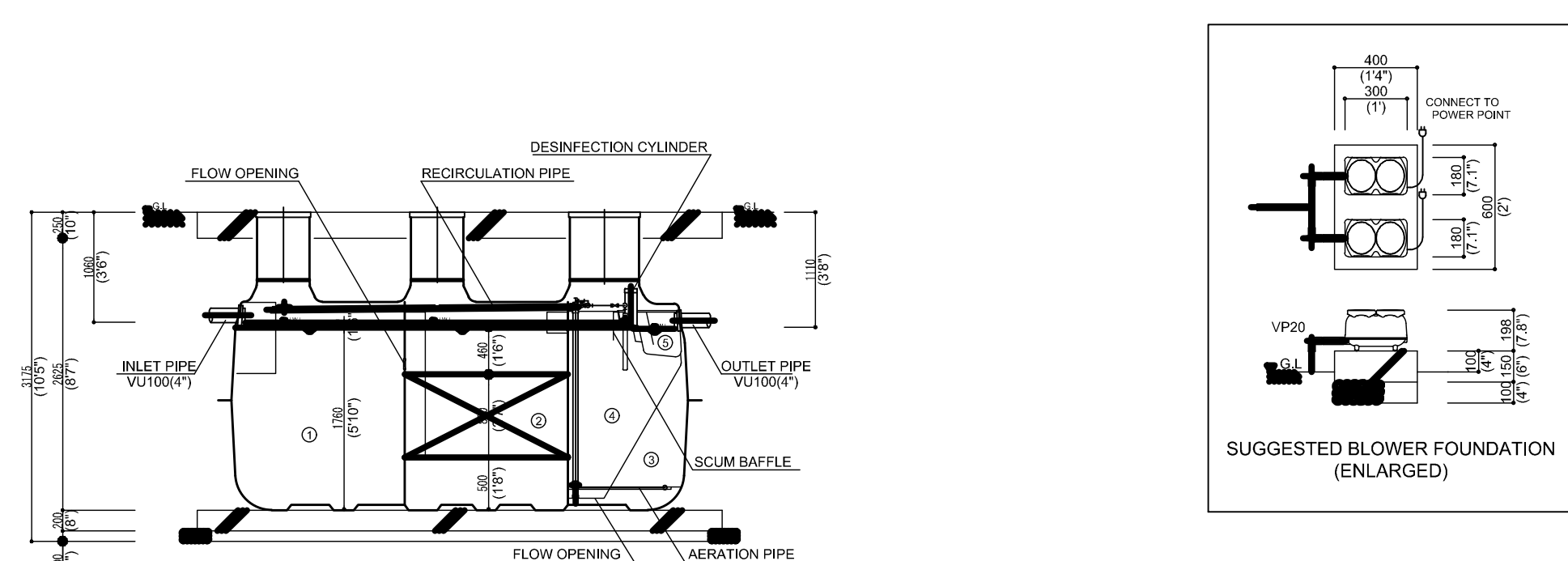
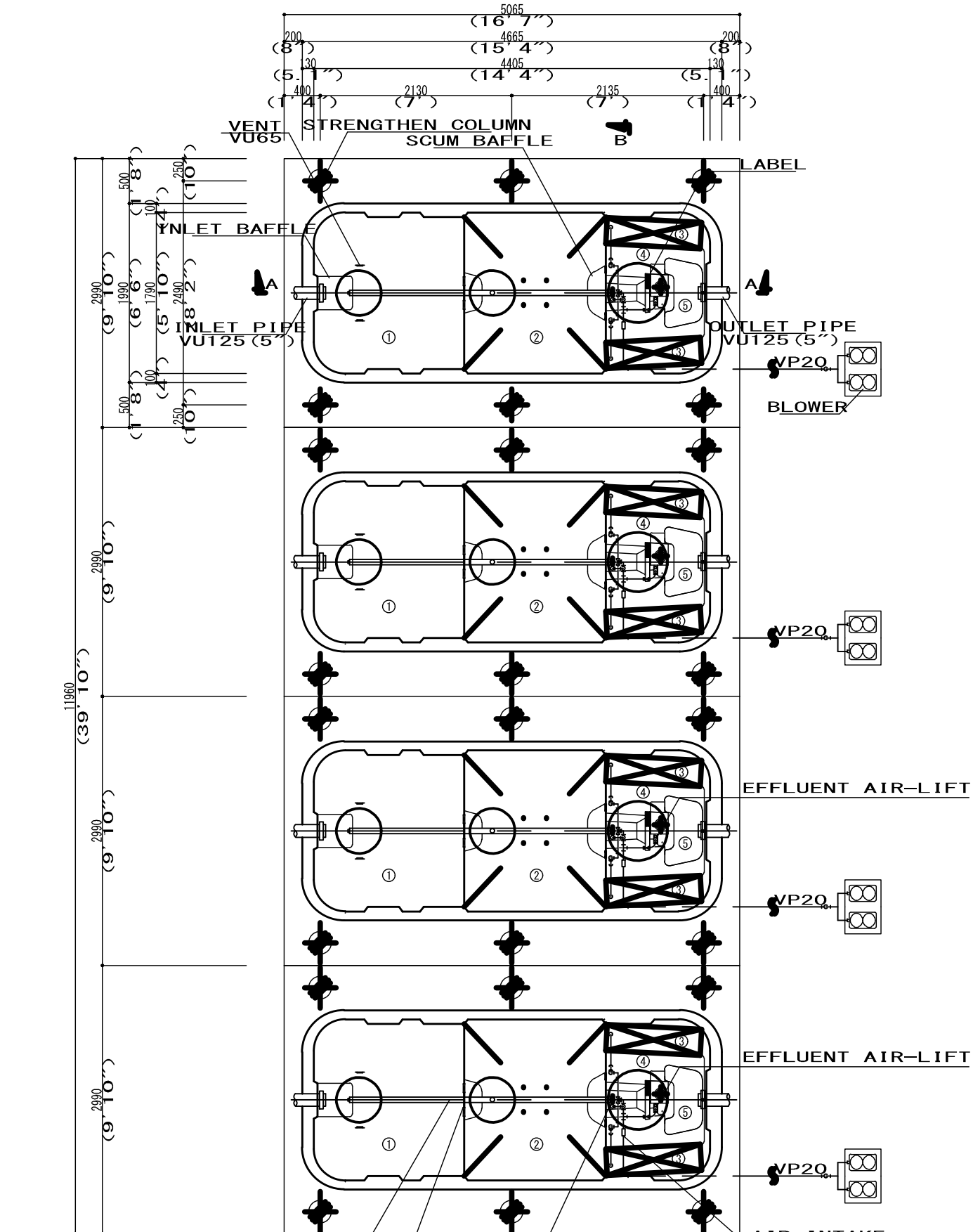
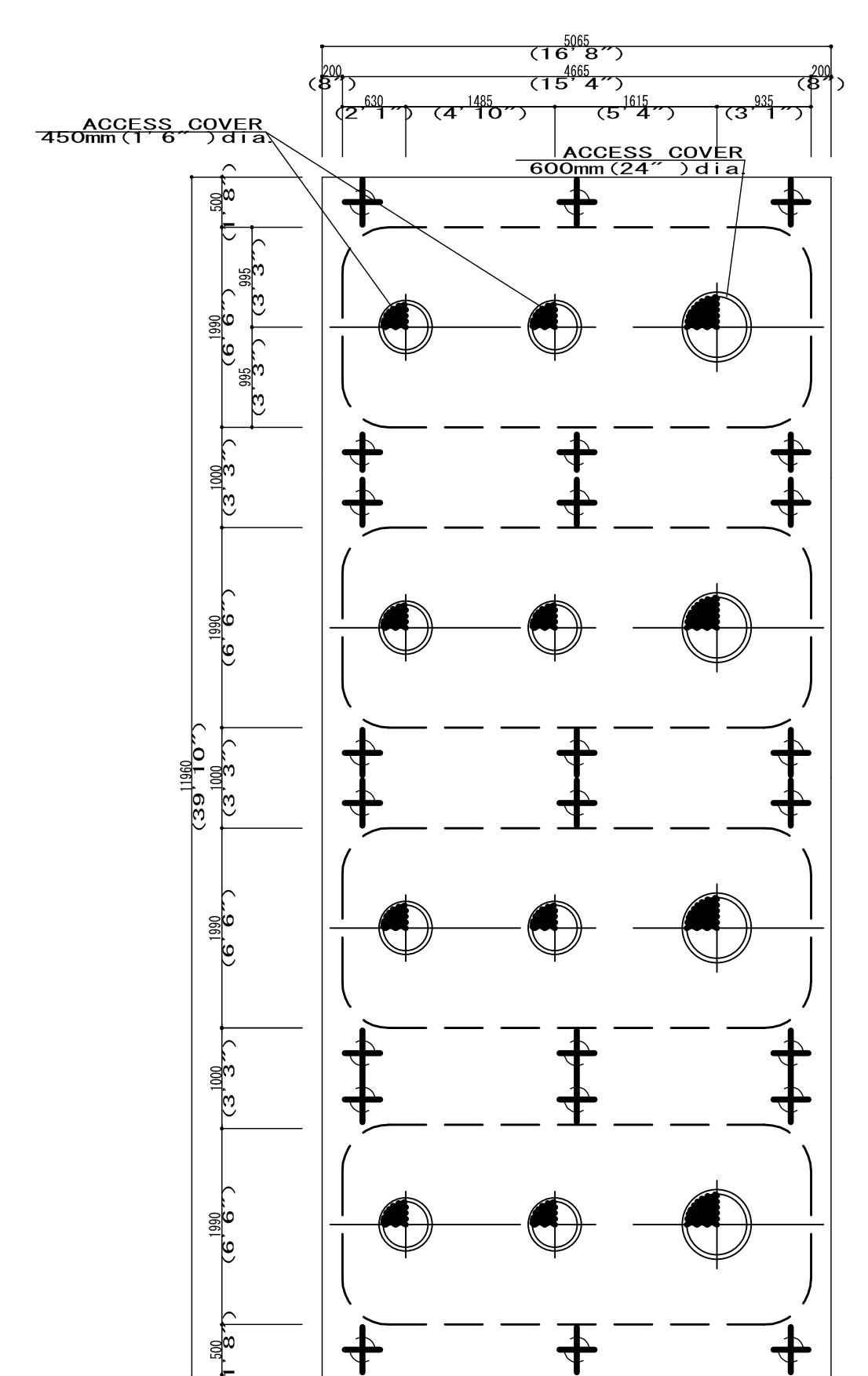
PROJECT NAME: Hampton Arms Sanitary System Upgrade; Project No. 900-256-1-43.1 & 43.3; PWGC Drawing No. C-102; Date: 04/23/2021; By: [Signature]

CONSULTANTS

SPECIFICATIONS			
DRAWING NUMBER	GJS0071A		
TREATMENT METHOD	CONTACT FILTRATION MEDIA METHOD		
MODEL NAME	FUJICLEAN CEN-21		
EQUIVALENT PERSON			
DESIGN HYDRAULIC LOADING	BCD 200mg/L	T.A. 45mg/L	SS 160mg/L
DESIGN EFFLUENT QUALITY	BCD 10mg/L	T.A. 10mg/L	SS 10mg/L
① SEDIMENTATION CHAMBER	EFFECTIVE CAPACITY	1200 GALLON X3	
② ANAEROBIC FILTRATION CHAMBER	EFFECTIVE CAPACITY	1198 GALLON X3	
③ AEROBIC CONTACT FILTRATION CHAMBER	EFFECTIVE CAPACITY	550 GALLON X3	
④ CLARIFICATION CHAMBER	EFFECTIVE CAPACITY	288 GALLON X3	
⑤ DISINFECTION CHAMBER	EFFECTIVE CAPACITY	17 GALLON X3	
TOTAL CAPACITY	EFFECTIVE CAPACITY	3233 GALLON X3	
SPECIFICATION OF DEVICES			
AEROBIC MEDIA	POLYPROPYLENE OR POLYETHYLENE	PACKING RATIO	46 %
CONTACT MEDIA	POLYVINYL CHLORIDE, PP OR PE	PACKING RATIO	17 %
AEROBIC MEDIA	PP OR PE	PACKING RATIO	56 %
BLOWER	300 L/MIN (11.0 cfm)	20mm (0.78")	5.4kW (7.3hp)
NORMAL OUTLET	20mm (0.78")	POWER RATE	CONTINUOUS
OUTLET DIAMETER	20mm (0.78")	OPERATION MODE	CONTINUOUS
REQUIRED UNIT			6
TANK MATERIAL	FRP		
PIPING	PVC, PP OR PE		
ACCESS COVER	CAST IRON (H20)		
DISINFECTANT AGENT	CHLORINE TABLETS		

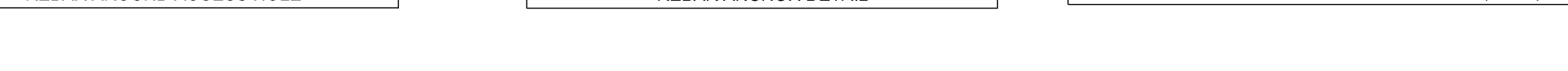
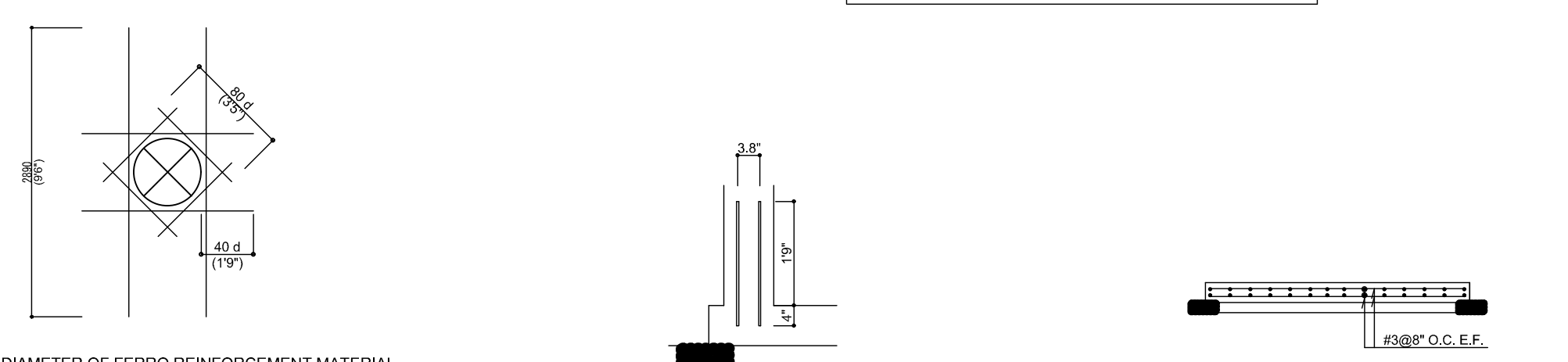
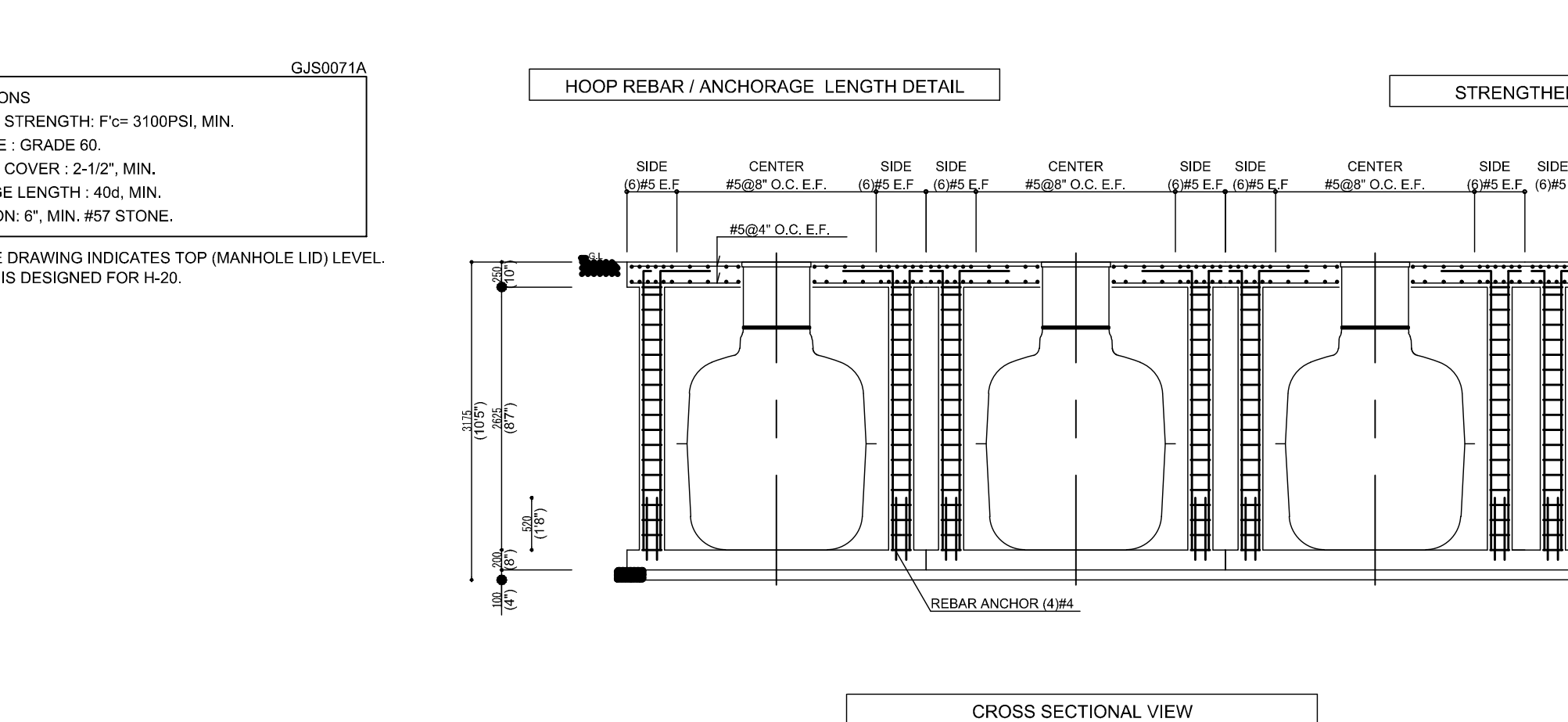
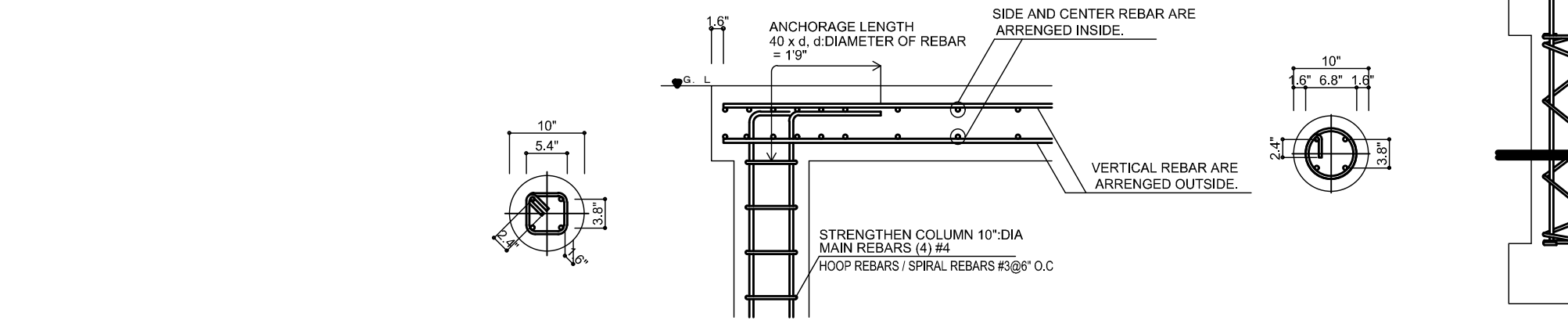
INSTALLATION HEIGHT				
ITEMS	RISER HEIGHT	INFLOW INVERT	EFFLUENT INVERT	TOTAL HEIGHT
MINIMUM SIZE	H 100mm (4")	GL-560mm (1'9")	GL-610mm (2')	H 2675mm (8'9")
MAXIMUM SIZE	H 1650mm (5'5")	GL-1050mm (3'5")	GL-1115mm (3'8")	H 3175mm (10'3")
*1 TOP LOAD IS DESIGNED FOR H-20.				
*2 POWER IS SINGLE PHASE 100V.				
*3 G.L. IN THE DRAWING INDICATES THE FINISHED LEVEL.				
*4 DISTANCE BETWEEN BLOWER AND TANK SHOULD BE 10mm (3/8") OR LESS.				
*5 PLUMBING BEFORE INFLOW AND AFTER EFFLUENT ARE NOT INCLUDED.				
*6 PLUMBING FOR VENT IS NOT INCLUDED.				
*7 POWER POINT IN THE VICINITY OF BLOWER IS REQUIRED.				
*8 BEARING POWER OF SOIL SHOULD BE 50N/m ² OR MORE.				
*9 EXCAVATION AND RELATED JOB ARE NOT DESCRIBED.				

PVC PIPE DIMENSION	
COMMON NAME	OUTSIDE DIAMETER
VP20	26 mm (1")
VU85	76 mm (3")
VU100	114 mm (4")
VU125	140 mm (5")



SPECIFICATIONS
CONCRETE STRENGTH: F_c = 3100PSI, MIN.
STEEL WIRE - GRADE 60
CONCRETE COVER: 2-1/2", MIN.
ANCHORAGE LENGTH: 40d, MIN.
FOUNDATION: 6", MIN. #57 STONE.

*1 G.L. IN THE DRAWING INDICATES TOP (MANHOLE LID) LEVEL
*2 TOP LOAD IS DESIGNED FOR H-20.



1,900 GALLON FUJI CLEAN TREATMENT SYSTEM TRAFFIC BEARING DETAILS
MODEL CEN21
SCALE: NOT TO SCALE


SCDHS APPROVAL BOX

FUJI UNIT TRAFFIC BEARING DETAILS

Drawing Number: **C-103**

Sheet 3 of 4

PWGC Project Number: BWE2105



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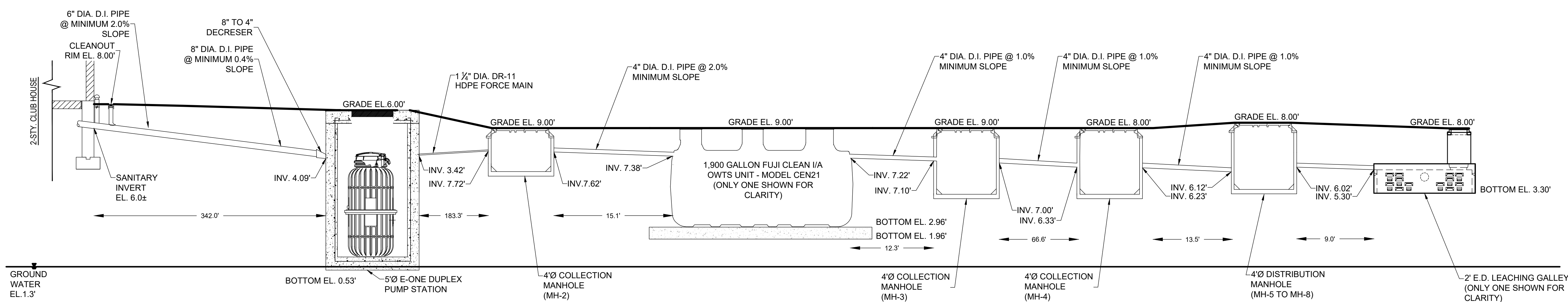
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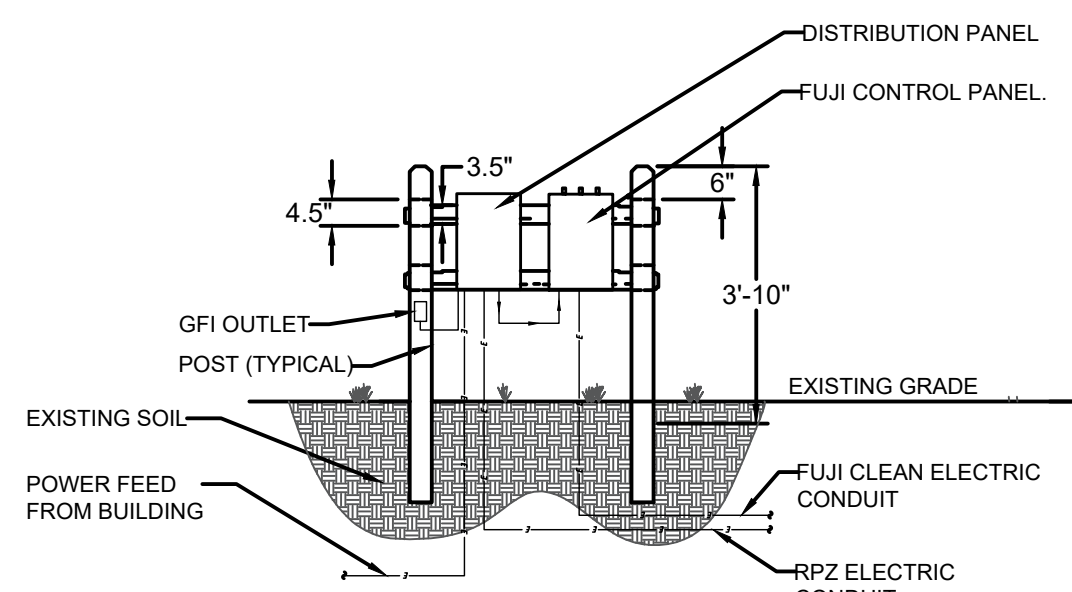
Project:
HAMPTON ARMS COOP SANITARY SYSTEM UPGRADES

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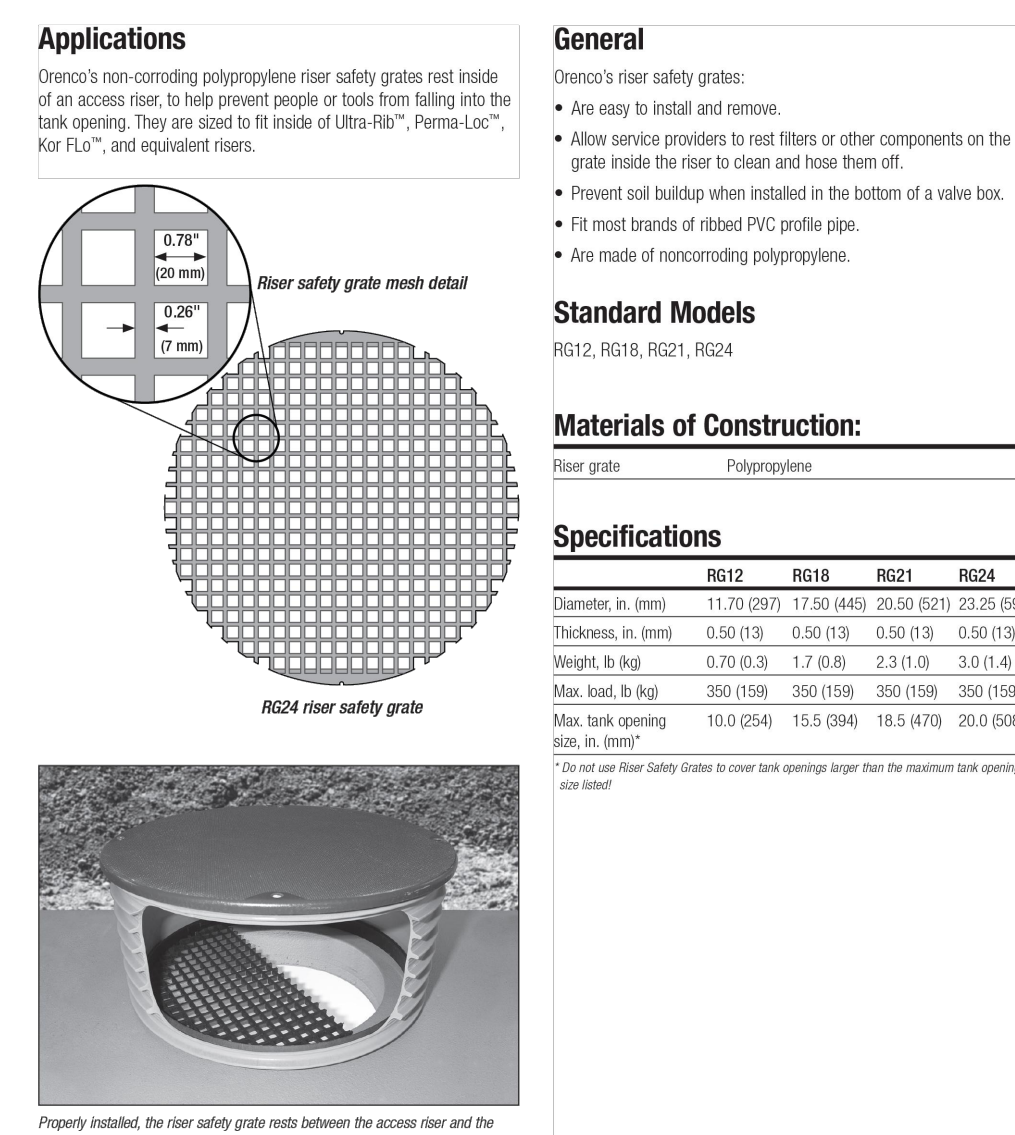
County Tax Map Number: 900-256-1-43.1 & 43.3
Contract Number: BWE2105



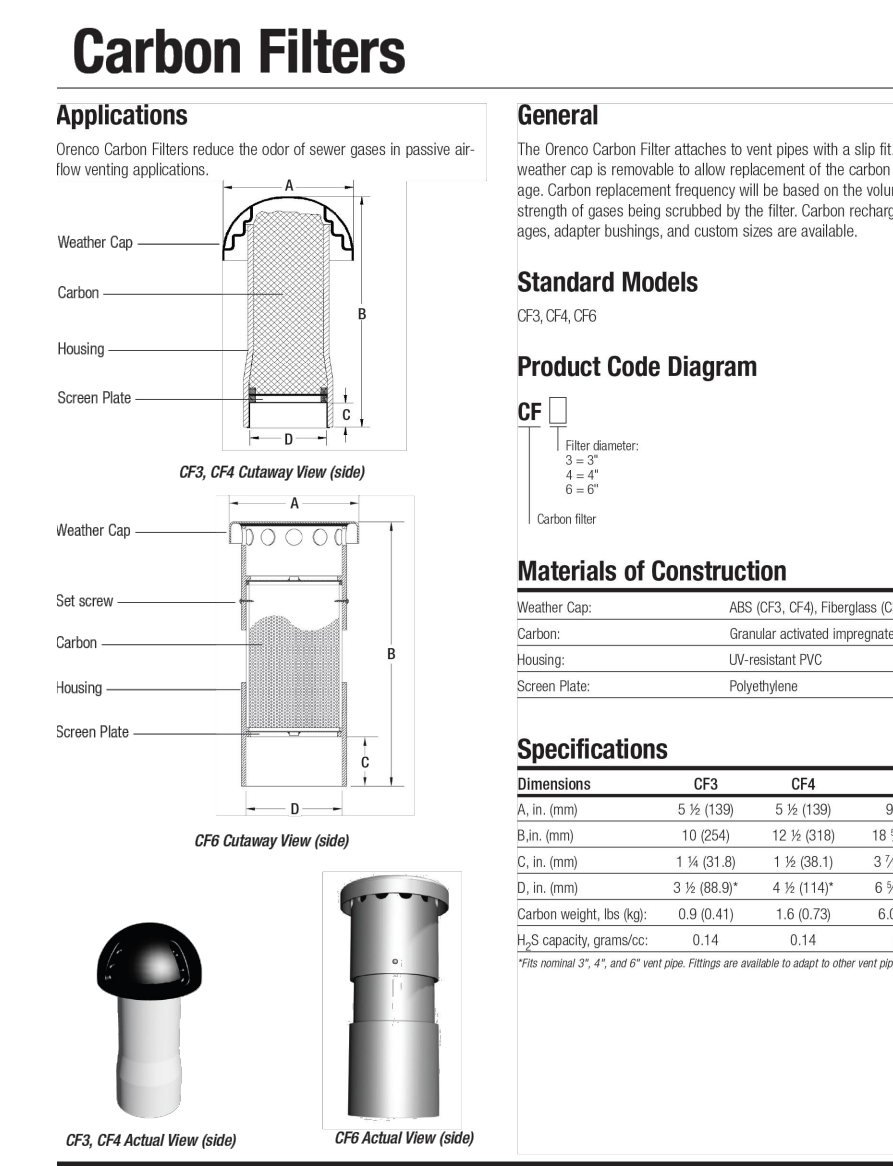
SYSTEM PROFILE
SCALE: NTS



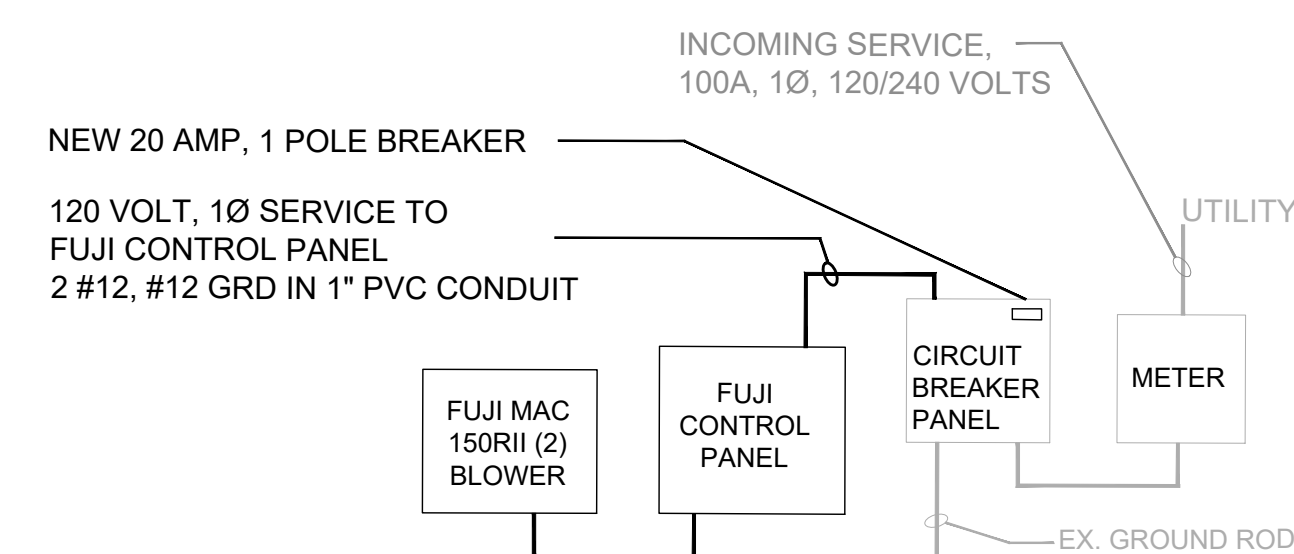
CONTROL PANEL WOODEN POST DETAIL
SCALE: NTS



RISER SAFETY GRATE DETAIL
SCALE: NTS

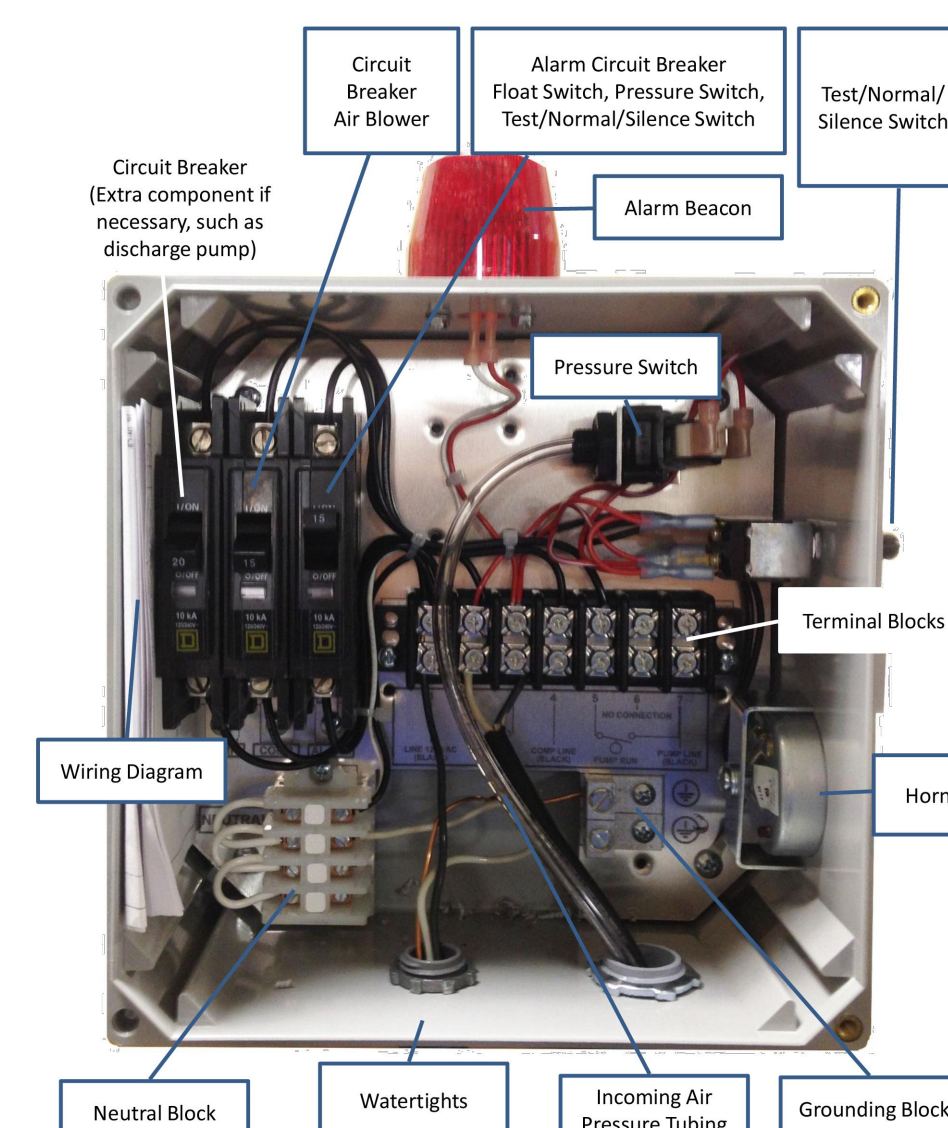


CARBON FILTER DETAIL
SCALE: NTS



ELECTRICAL ONE LINE DIAGRAM
SCALE: NTS

- NOTE:
- BURIED ELECTRICAL POWER CONDUITS SHALL BE A MINIMUM OF 24 INCHES BELOW GRADE.
 - ALL ELECTRICAL WORK TO BE PERFORMED IN ACCORDANCE WITH NEC.



- NOTE:
- CONTROL PANEL SHALL BE EQUIPPED WITH A GFI OUTLET.

FUJI CONTROL PANEL
SCALE: NTS



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HAMPTON BAYS, NY 11946

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SANITARY SYSTEM
UPGRADES

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STATE OF NEW YORK
BRYAN ANDREW GROSSER
092823
LICENSED PROFESSIONAL ENGINEER

SYSTEM PROFILES & DETAILS

Drawing Number: **C-104**

Sheet 4 of 4

PWGC Project Number: **BWE2105**

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