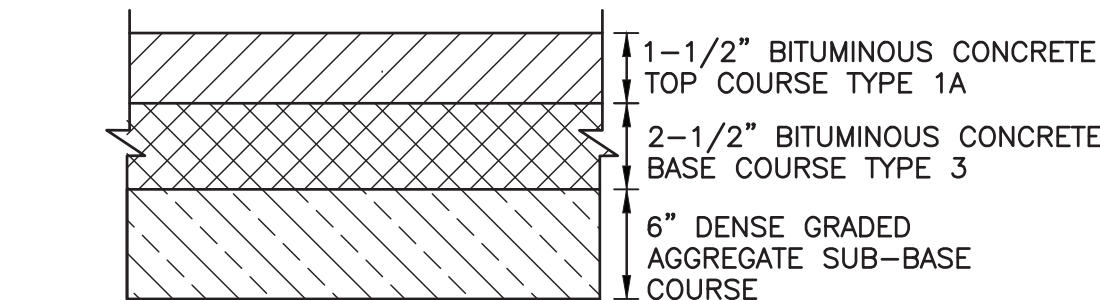
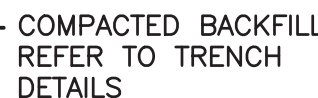
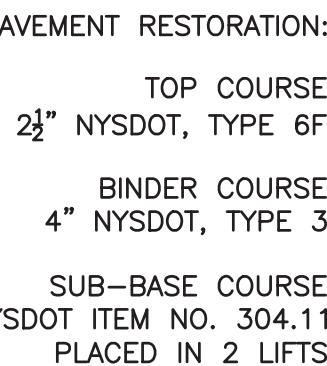




1. WHERE PAVEMENT HAS NOT BEEN RESTORED, TRENCH SHALL BE 100% PLATED DURING NON-WORKING HOURS.
2. IF ADJACENT PAVEMENT WITHIN CLOSE PROXIMITY OF TRENCH EXCAVATION SHOWS STRUCTURAL FATIGUE, ADDITIONAL PAVE. RESTORATION SHALL BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
3. TRAFFIC SHALL BE CONTROLLED AT ALL TIMES BY MEANS OF SIGNS, FLAGMEN, CONES, BARRICADES, ETC., AS PER THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



3 FINAL RESTORATION IN LANDSCAPED AREA  
NOT TO SCALE



- NOTES:
1. CONCRETE TO TEST 4000 PSI @ 28 DAYS.
  2. WELDED WIRE MESH ASTM-A-185.
  3. 376 GALLON CAPACITY PER RING.
  4. MANUFACTURED BY PRECAST CONCRETE SALES, VALLEY COTTAGE, NY, OR APPROVED EQUAL.

7 GRAVEL DETAIL  
NOT TO SCALE



UNAUTHORIZED ALTERATION OR  
ADDITION TO THIS DOCUMENT IS A  
VIOLATION OF SECTION 7209 OF THE  
NEW YORK STATE EDUCATION LAW

IN CHARGE OF WDM  
CHECKED BY ALG  
MADE BY JG

1	12/28/22	JG	ALG	REVISED PER ADDENDUM #2
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

## RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED  
☐ AS BUILT - NO CHANGES

## CONTRACTOR

NAME \_\_\_\_\_

SIGNATURE \_\_\_\_\_

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

## PROJECT COORDINATOR

NAME \_\_\_\_\_

SIGNATURE \_\_\_\_\_

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

WESTCHESTER COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
 DIVISION OF ENGINEERING

DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT  
TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK  
CIVIL  
SITE DETAILS NO. 1

CONTRACT NUMBER	SHEET NUMBER
22-522	C-19

SHEET NO. 23 OF 61

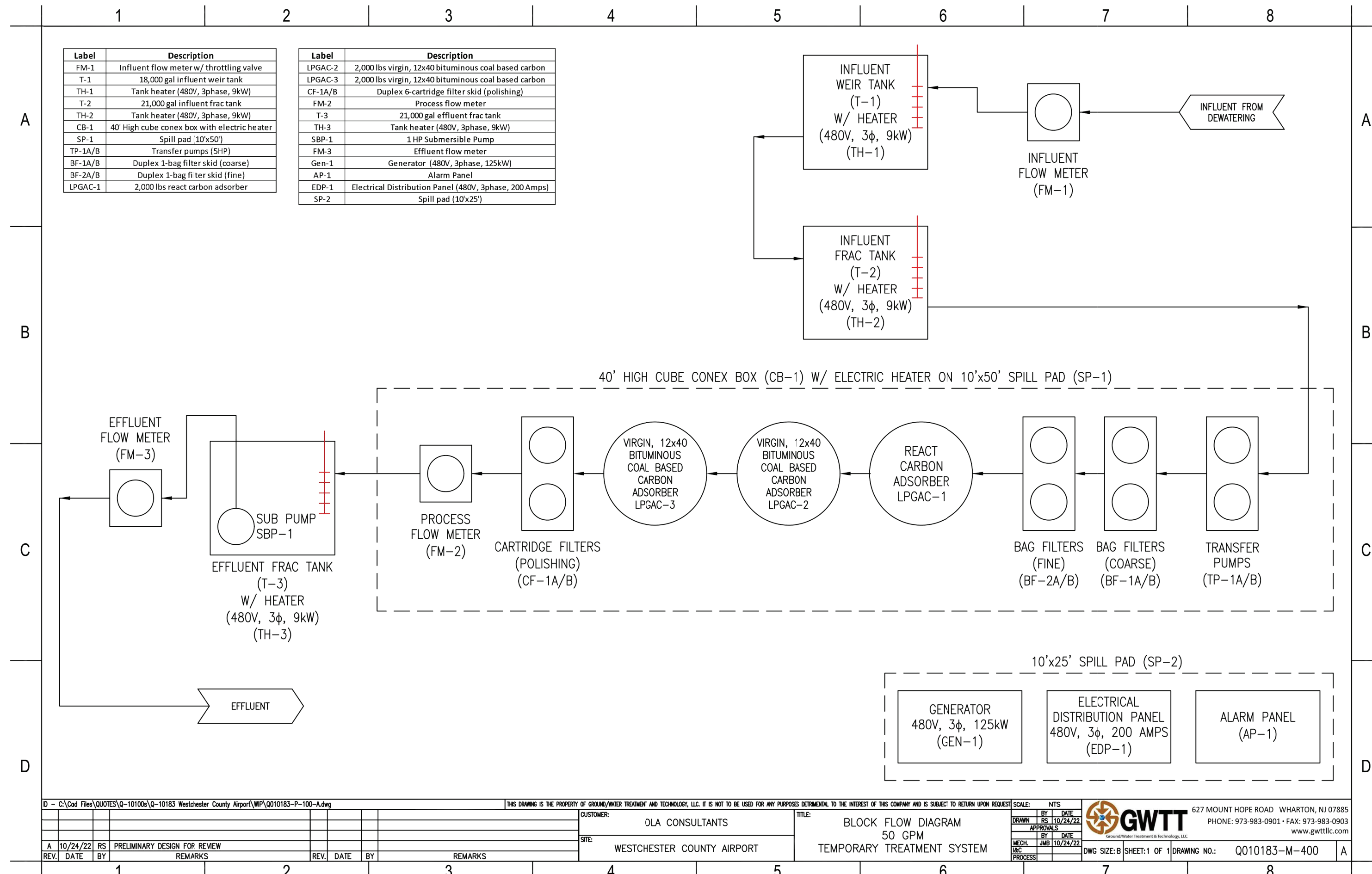
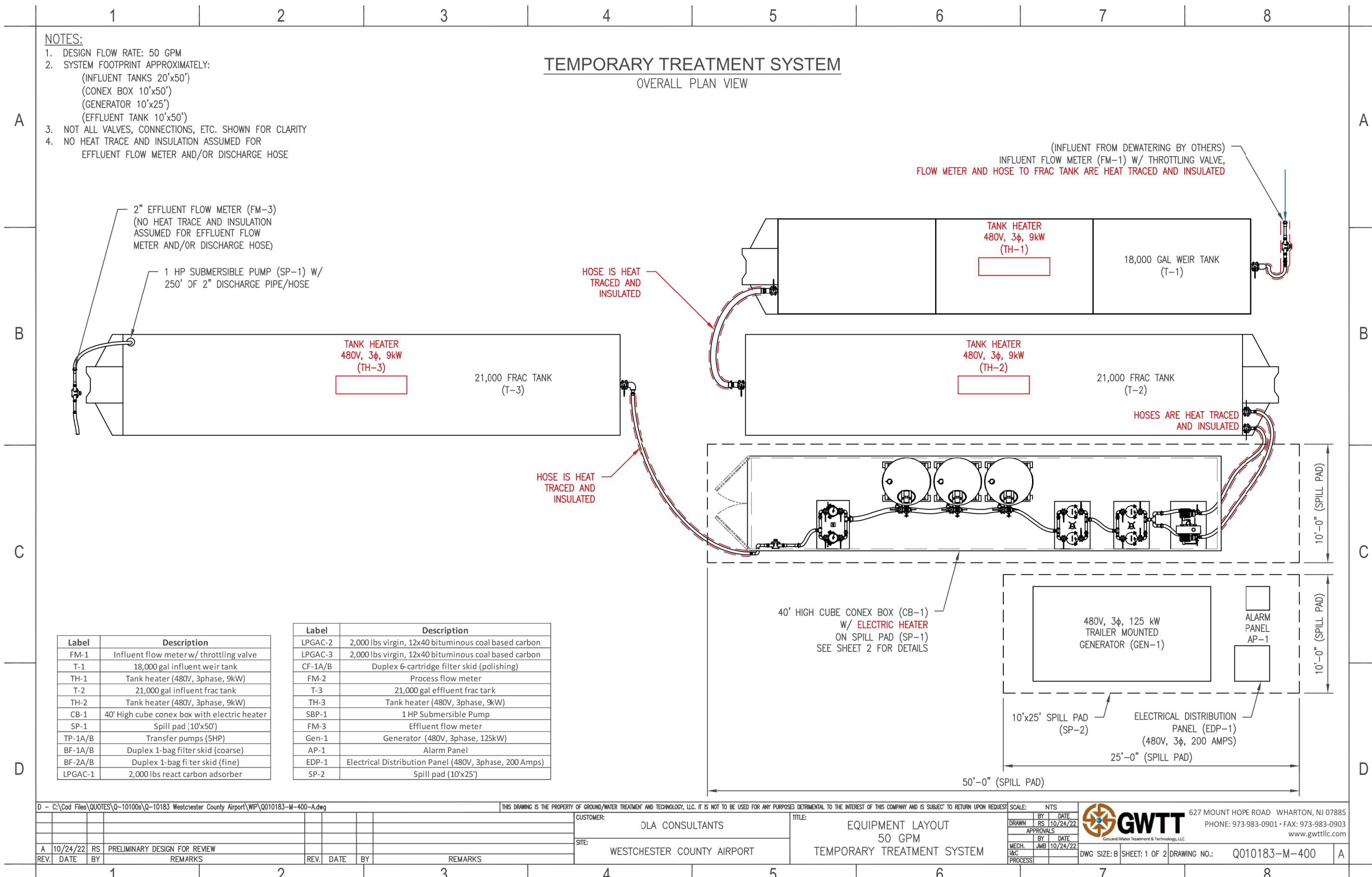
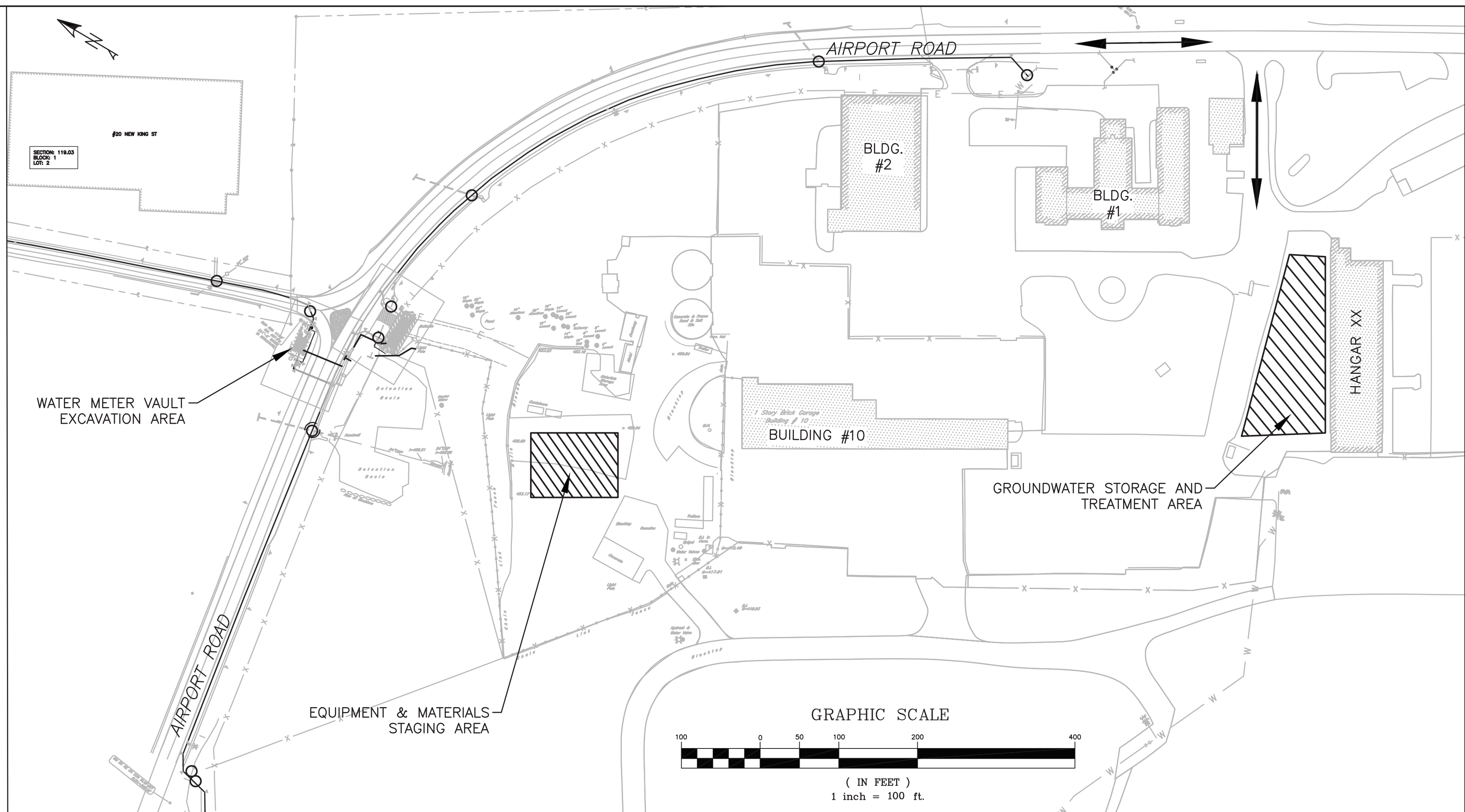
SCALE:	AS SHOWN
DATE:	12/09/2022

48-17-C-148



DEWATERING NOTES:

- GROUND WATER FROM DEWATERING OPERATIONS IS NOT PERMITTED TO BE DISCHARGED TO THE GROUND SURFACE, DRAINAGE DITCH, SURFACE WATER BODY, STREAM, WETLAND, STORM DRAIN OR SANITARY SEWER.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE A GROUNDWATER TREATMENT SYSTEM THAT WILL BE USED TO TREAT GROUNDWATER THAT IS REMOVED FROM THE GROUND BY DEWATERING FOR THE PURPOSE OF REMOVING PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS). REFER TO BLOCK DIAGRAM AND EQUIPMENT LAYOUT PREPARED BY GROUND WATER TREATMENT & TECHNOLOGY, LLC (GWT).
- ALL GROUNDWATER REMOVED FROM EXCAVATIONS, PITS AND WORK AREAS, MUST BE TRANSPORTED TO THE DESIGNATED TREATMENT AREA. FINAL LOCATION AND LAYOUT OF TEMPORARY TREATMENT SYSTEM SHALL BE CONFIRMED AND REVIEWED BY AIRPORT OPERATIONS AND ENGINEER PRIOR TO INSTALLATION.
- ONCE WATER HAS BEEN TREATED THE MAXIMUM RATE OF DISCHARGE FROM THE TREATMENT SYSTEM INTO THE SANITARY SEWER SYSTEM, WILL BE LIMITED TO 17 GALLONS PER MINUTE (GPM) IN ACCORDANCE WITH DEF PERMIT. THE CONTRACTOR SHALL PROVIDE A FLOW CONTROL VALVE, CONTROLLED FLOW ORIFICE DEVICE OR OTHER APPROVED MEANS TO ENSURE DISCHARGE DOES NOT EXCEED 17 GPM. THE CONTRACTOR SHALL BE RESPONSIBLE TO RECORD EFFLUENT FLOW METER DATA AND SUBMIT TO THE ENGINEER AND OWNER'S REPRESENTATIVE FOR RECORD TO ENSURE DISCHARGE RATE IS NOT EXCEEDED.
- THE CONTRACTOR'S COST TO RENT, MOBILIZE, OPERATE, DEMOBILIZE AND RESTORE THE TREATMENT AREA SHALL BE PAID UNDER BID ITEM "GG". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MAINTENANCE, REPAIRS AND/OR SYSTEM FAILURES OF THE TEMPORARY EQUIPMENT FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR'S COST TO DEWATER, PUMP, COLLECT, IF NECESSARY STORE, AND TRANSPORT DEWATERING FLUID TO THE TREATMENT AREA SHALL BE INCLUDED IN THE CONTRACTOR'S COST FOR BID ITEMS AS FOLLOWS:
  - DEWATERING, PUMPING COLLECTION AND/OR STORAGE RELATED TO THE METER VAULT SHALL BE INCLUDED IN BID ITEM DD.
  - DEWATERING, PUMPING, COLLECTION AND/OR STORAGE RELATED TO THE TOWER ROAD AND AIRPORT ROAD BACKFLOW PREVENTER BUILDINGS SHALL BE INCLUDED IN BID ITEM EE OR FF RESPECTIVELY.
  - DEWATERING, PUMPING, COLLECTION AND/OR STORAGE RELATED TO THE PIPELINE OR ANY OTHER EXCAVATION SHALL BE INCLUDED IN BID ITEMS D THROUGH G.
- TREATMENT SYSTEM EFFLUENT WILL BE SAMPLED AND TESTED BY THE OWNER'S REPRESENTATIVE ONCE AT START UP AND BI-MONTHLY FOR THE DURATION OF THE PROJECT. THE OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE TO REPORT TEST RESULTS. THE OWNER'S REPRESENTATIVE WILL INSPECT THE TREATMENT SYSTEM PERIODICALLY TO CONFIRM THAT THE SYSTEM IS OPERATING IN ACCORDANCE WITH PERMIT REQUIREMENTS AND THAT THE PERMITTED DISCHARGE LEVELS ARE NOT EXCEEDED.
- TEMPORARY GENERATOR SHALL BE DIESEL FUEL. CONTRACTOR SHALL BE RESPONSIBLE FOR GENERATOR FUEL DELIVERIES AND MAINTENANCE FOR THE DURATION OF THE OPERATION OF THE TEMPORARY WATER TREATMENT SYSTEM.
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF OPERATION OF THE TREATMENT SYSTEM TO THE ENGINEER FOR REVIEW. THE SEQUENCE OF OPERATION SHALL BE SIMILAR TO THE FOLLOWING:
  - THE INFLUENT WEIR TANK SHALL BE PROVIDED WITH CONSTANT TANK VOLUME MONITORING AND LEVEL CONTROLS AS A MINIMUM: LOW WATER ALARM, HIGH WATER ALARM
  - THE INFLUENT FRAC TANK SHALL BE PROVIDED WITH CONSTANT TANK VOLUME MONITORING AND LEVEL CONTROLS AS A MINIMUM: LOW WATER ALARM, HIGH WATER ALARM, TRANSFER PUMPS ON/OFF.
  - IN THE EVENT THAT THE FRAC TANK WATER SUPPLY REACHES "TRANSFER PUMP ON" LEVEL, THE PUMP(S) SHALL BE ENERGIZED AND SHALL RUN CONTINUOUSLY THROUGH THE TREATMENT SYSTEM UNTIL THE "TRANSFER PUMPS OFF" LEVEL IS REACHED. AUTOMATIC VALVES AT THE INLET/OUTLET OF THE TANK SHALL OPEN/CLOSE AS REQUIRED.
  - THE EFFLUENT TANK SHALL BE PROVIDED WITH CONSTANT TANK VOLUME MONITORING AND FIELD ADJUSTABLE LEVEL CONTROLS AS A MINIMUM: LOW WATER ALARM, HIGH WATER ALARM, 25% FULL, 50% FULL, 80% FULL
  - IN THE EVENT THAT THE EFFLUENT FRAC TANK REACHES 80% FULL THE TRANSFER PUMPS SHALL BE DE-ENERGIZED AND THE EFFLUENT DISCHARGED AT 17 GPM MAXIMUM. THE CONTRACTOR SHALL DETERMINE THE FREQUENCY OF EFFLUENT DISCHARGE BASED ON DEWATERING FIELD CONDITIONS.
  - ALL TANKS SHALL BE PROVIDED WITH EXTERIOR AUDIBLE ALARMS.



D&B ENGINEERS  
AND ARCHITECTS  
WHITE PLAINS, NEW YORK 10604  
(914) 467-5300

CONSULTANT SEAL

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WESTCHESTER COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
DIVISION OF ENGINEERING

DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT  
TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK  
CIVIL  
GROUNDWATER MANAGEMENT PLAN

CONTRACT  
NUMBER  
22-522

SHEET  
NUMBER  
C-29

SHEET NO. 33 OF 61

SCALE: AS SHOWN

DATE: 12/09/2022

DPW FILE NO.

48-17-C-158

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NO.  
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