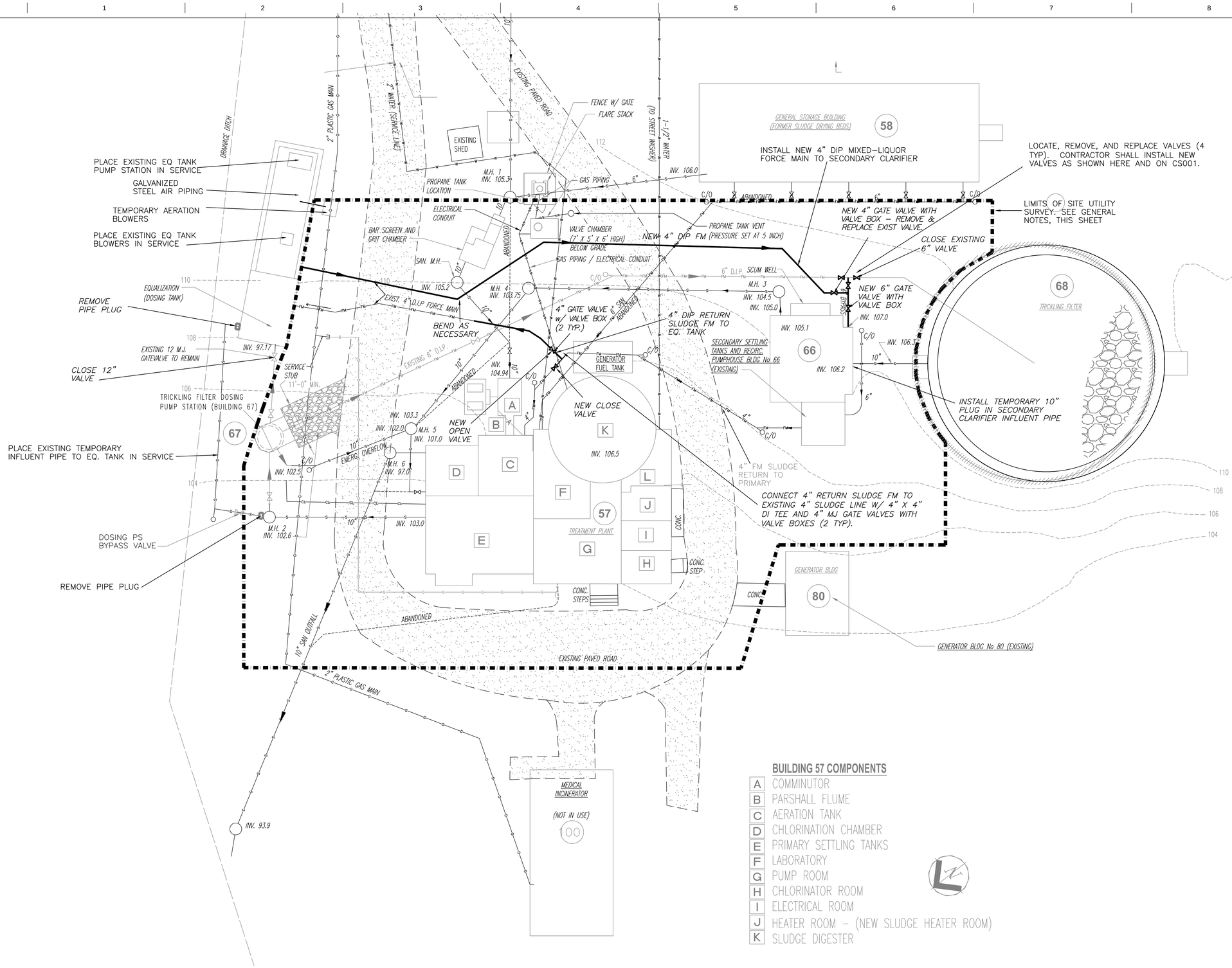

BUILDING 57 COMPONENTS

- A COMMINUTOR
- B PARSHALL FLUME
- C AERATION TANK
- D CHLORINATION CHAMBER
- E PRIMARY SETTLING TANKS
- F LABORATORY
- G PUMP ROOM
- H CHLORINATOR ROOM
- I ELECTRICAL ROOM
- J HEATER ROOM – (NEW SLUDGE HEATER ROOM)
- K SLUDGE DIGESTER

SCALE: 1" = 10'-0"

10 0 10 20

SCALE IN FEET

GENERAL NOTES

1. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
2. CONTRACTOR SHALL PROVIDE SERVICES WITH A QUALIFIED TECHNICIAN FOR A GROUND PENETRATING RADAR (GPR) SCAN OF THE PROPOSED LOCATION INDICATED ON THIS SHEET. GPR SCAN SHALL BE CONDUCTED AND RESULTING EXISTING UNDERGROUND UTILITY MAPPING SHALL BE PROVIDED TO THE ENGINEER IN CAD FORMAT FOR REVIEW PRIOR TO STARTING ALL EXCAVATION AND DEMOLITION ON SITE. THE CONTRACTOR SHALL MAKE PROVISIONS TO SUBMIT A PROPOSED TREATMENT PIPING PLAN PENDING THE RESULTS OF THE GPR SURVEY IF NECESSARY.
3. IF THE GPR SURVEY INDICATES THAT UNDERGROUND PIPING ROUTES AND LOCATIONS VARY FROM WHAT IS SHOWN ON THIS SHEET TO THE POINT WHERE THE PIPING CANNOT BE INSTALLED AS SHOWN, THE CONTRACTOR SHALL SUBMIT A PROPOSED PIPING PLAN TO THE ENGINEER FOR APPROVAL. PROPOSED PIPING PLAN SHALL UTILIZE THE SAME DIAMETER AND MATERIAL PIPES AS WHAT IS SHOWN. LOCATION OF PIPES AND LOCATION OF CONNECTIONS MAY BE ALTERED IN THE SUBMITTED PLAN PENDING THE RESULTS OF THE GPR SURVEY.
4. THE CONTRACTOR SHALL UTILIZE A SERIES OF TEST HOLES TO CONFIRM THE LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES IN THE VICINITY OF PROPOSED PIPE CROSSINGS AND CONNECTIONS TO EXISTING PIPES.

TEMPORARY TREATMENT NOTES:

1. CONTRACTOR SHALL PERFORM ALL WORK SHOWN ON SHEET CU002 RELATED TO THE EQUALIZATION TANK PRIOR TO STARTING WORK ELSEWHERE ON THE PROJECT. THE TANK SHALL BE FULLY OPERATIONAL PRIOR TO MODIFYING EXISTING PIPING AND VALVES.
2. INSTALL TEMPORARY BLOWER AND CONNECT TO EXISTING POWER PANEL. SEE ELECTRICAL DRAWINGS. TEMPORARY BLOWER SHALL BE CONNECTED TO NEW TANK INLET AIR HEADER AND DIFFUSERS.
3. INSTALL ONE (1) ADDITIONAL ROW OF COARSE BUBBLE DIFFUSERS INSIDE EQUALIZATION TANK AND CONNECT TO NEW INLET AIR HEADER
4. INSTALL 4" DIP & 4" GATE VALVES WITH VALVE BOX FOR RETURN SLUDGE FORCE MAIN. CONNECTION TO EXISTING PIPING SHALL BE MADE WITH SOLID SLEEVE COUPLING AND ALL PIPING JOINTS SHALL BE FULLY RESTRAINED.
5. INSTALL 4" AND 6" DIP FORCE MAIN AND VALVES TO SECONDARY CLARIFIER.
6. CONTRACTOR SHALL MAKE PROVISIONS TO SECURE AND TRANSPORT THE MIXED-LIQUOR SUSPENDED SOLIDS NEEDED TO FOR SEEDING OF PROPER ACTIVATED SLUDGE TREATMENT BIOLOGY FROM A NEARBY WWTP.
7. TEMPORARY AERATION SYSTEM AND EQUALIZATION TANK SHALL BE FULLY STARTED AND OPERATIONAL IN THE EXTENDED AERATION MODE OF ACTIVATED SLUDGE PRIOR TO ISOLATING TRICKLING FILTER FOR DEMOLITION. THE CONTRACTOR SHALL BE PERMITTED TO REMOVE THE TRICKLING FILTER FROM SERVICE FOLLOWING NOTIFICATION FROM THE OPERATORS AND ENGINEER THAT SUFFICIENT ACTIVATED SLUDGE TREATMENT IS TAKING PLACE WITHIN THE TEMPORARY TREATMENT TANK.
8. CLOSE THE OUTLET VALVE FROM MH 2 AND THE VALVE BETWEEN THE DOSING PS AND EQ TANK. OPEN THE DOSING BYPASS VALVE.
9. CLOSE 6" VALVE ON FORCE MAIN TO TRICKLING FILTER. ONCE TRICKLING FILTER HAS FULLY DRAINED AND FLOW STOPS LEAVING OUTLET PIPE, CONTRACTOR SHALL PLUG 10" PIPE TO SECONDARY SETTLING TANKS.
10. CONTRACTOR SHALL COORDINATE THE PUMP STATION INSTALLATION AND OPERATION OF ALL TEMPORARY TREATMENT WITH THE OWNER AND OWNER'S OPERATORS ON A CONTINUOUS BASIS UNTIL NORMAL FIXED-FILM TRICKLING FILTER WWTP OPERATION IS RESTORED AT THE END OF THE PROJECT.

FINAL DESIGN (100%)

Revisions:	Date

ARCHITECT / STRUCTURAL:

CIVIL:

PROJECT PRIME/ENGINEER:

Sigma Psi Consulting
MECHANICAL,ELECTRICAL,PLUMBING ENGINEERS,PLLC
4 COLLAMER ROAD
MALTA, NY 12020
518-581-9428
http://www.sigmapsi.com

CIVIL ENGINEER:

Barton & Loguidice, D.P.C.

Drawing Title: TEMPORARY CONSTRUCTION PLAN

Approved: Project Director

Project Title: Renovate Sewage Treatment Plant Trickling Filter
VA Hudson Valley Helathcare System
at Castle Point, New York

Location: 41 Castle Point Road, Wappinger Falls, NY 12590

Date: APRIL 26, 2018 | Checked: KK | Drawn: LJC

Project Number: VA 620A4-14-108

Building Number:

Drawing Number: CU001

Office of Construction and Facilities Management

Department of Veterans Affairs