WATER TREATMENT PLANT CLARIFIER

FOR TOWN OF EMMITSBURG, MARYLAND

C.I.P. (4-1600-40-160-1) TAX MAP 007, GRID 012, PARCEL 043

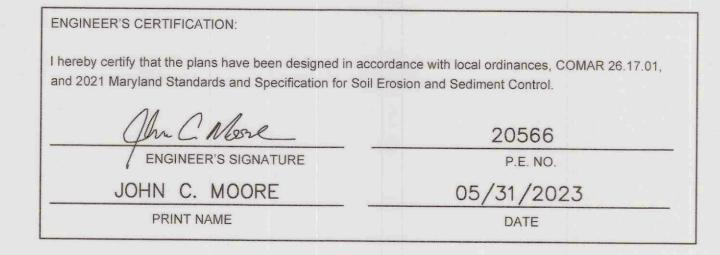
REISSUED FOR BID ADDENDUM NO.3 **FEBRUARY 6,2024**

- 1. THE PROPOSED PROJECT IS TO ADD A WATER CLARIFICATION FACILITY TO PROVIDE PRE-TREATMENT SYSTEM FOR THE TOWN OF EMMITSBURG'S DRINKING WATER. THE PROPOSED FACILITIES SHALL INCLUDE A PREFAB METAL BUILDING, CONCRETE VALVE VAULT AND HOLDING TANK, GRAVEL PARKING LOT AND SECURITY FENCE. MINIMAL CLEARING SHALL BE FOLLOWED TO MINIMIZE IMPACTS TO SENSITIVE ENVIRONMENTAL FEATURES
- 3. PROPERTY IS ZONE: RESOURCE CONSERVATION (RC) AND IS LOCATED WITHIN UNINCORPORATED FREDERICK COUNTY. 4. THIS PROJECT WILL TEMPORARILY IMPACT WETLAND BUFFERS AND THE 100-YR FLOODPLAIN.
- WETLANDS DELINEATION PERFORMED BY WATERSHED ENVIRONMENTAL, LLC. ON APRIL 23, 2021.
- THE 100-YEAR FLOODPLAIN IS DELINEATED FROM FEMA'S NATIONAL FLOOD HAZARD LAYER DATASET, MAP PANEL 24021C0035D EFFECTIVE

A MDE WETLAND/WATERWAY LETTER OF AUTHORIZATION HAS BEEN ISSUED FOR THIS PROJECT. LOA#: 22-NT-3177/202261204

- 1. SOIL EROSION AND SEDIMENT CONTROL THIS PROJECT HAS BEEN DESIGNED TO MINIMIZE DISTURBANCE AND MAXIMIZE THE AMOUNT OF GREEN SPACE. PROJECT SHALL DISTURB LESS THAN 1 AC. THEREFORE NOI IS NOT REQUIRED
- 2. ESD DOCUMENTATION AND DESIGN ALL ESD DOCUMENTATION IS AVAILABLE AND THE DESIGN IS
- PROTECTION OF NATURAL AREAS SILT FENCE AND ORANGE SAFETY BARRIER FENCE WILL BE INSTALLED AT THE ONSET OF CONSTRUCTION
- SECURITY FENCE TO PROVIDE FUTURE PROTECTION TO SURROUNDING AREAS. CONSTRUCTION EQUIPMENT CONTROL - THE CONSTRUCTION EQUIPMENT WILL BE LIMITED TO ORANGE SAFETY BARRIER FENCE.
- 5. SITE CLEARING EVALUATION SITE CLEARING WILL BE LIMITED
- HIGH RISK SOIL IDENTIFICATION THERE ARE NO HIGH RISK SOILS WITHIN THE LIMIT OF DISTURBANCE. 8. STEEP SLOPES - NO EXCESSIVELY STEEP SLOPES EXIST ON SITE.
- 9. DESIGNATION OF STABILIZATION STABILIZE ALL DISTURBED AREA IN ACCORDANCE WITH THE NOTES PROVIDED ON SHEETS ESC-05 AND

- 1. A COMPLETE SET OF APPROVED PLANS AND A COPY OF THE GRADING PERMIT MUST BE ON SITE AND AVAILABLE FOR USE BY THE INSPECTOR OR OTHER REPRESENTATIVES OF TOWN OF EMMITSBURG DIVISION OF PUBLIC WORKS.
- 2. THIS PROJECT WILL REQUIRE A THIRD PARTY QUALIFIED PROFESSIONAL TO BE PRESENT AT THE PRE-CONSTRUCTION MEETING SCHEDULED WITH TOWN OF EMMITSBURG PUBLIC WORKS AND THE FREDERICK COUNTY SOIL CONSERVATION DISTRICT.
- 3. ALL GRADING FOR THIS PROJECT SHALL BE THE FULL RESPONSIBILITY OF THE PROJECT OWNER.



OWNER/ DEVELOPER'S CERTIFICATION:

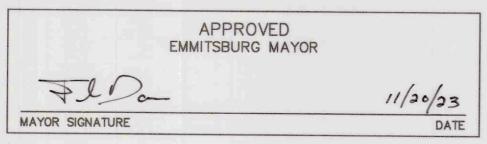
I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in this construction project will have a Certificate of Attendance at a Maryland Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I/We also certify that the site will be inspected at the end of each working day, and that any needed maintenance will be completed so as to ensure that all sediment control practices are left in operational condition. I/We authorize the right of entry for periodic onsite evaluation by the Catoctin/ Frederick Soil Conservation District Board or their authorized agents.

SIGNATURE OWNER/ DEVELOPER NAJILA AHSAN TOWN PLANNER PRINT NAME

CERTIFICATION OF THE DISTURBED AREA QUANTITY

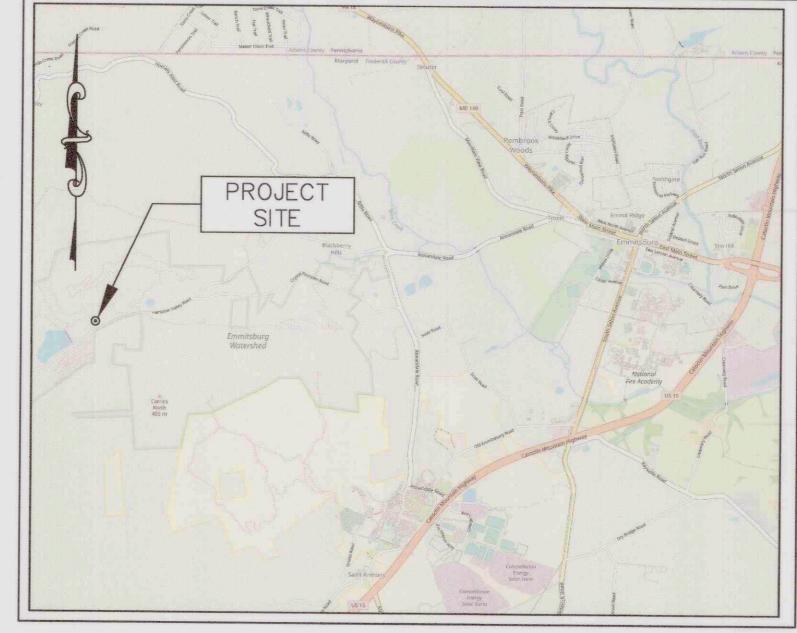
hereby certify that the estimated total amount of area to be disturbed shown on these plans has been disturbed as shown on these plans has been determined to be 11,090 square feet, or 0.26 acres.

20566 **ENGINEER'S SIGNATURE** P.E. NO. JOHN C. MOORE 05/31/2023 PRINT NAME DATE

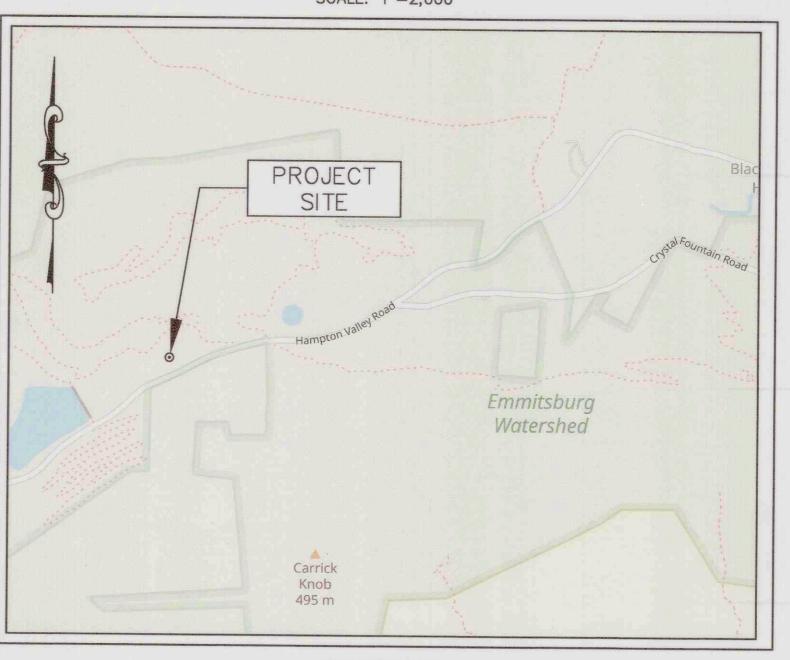


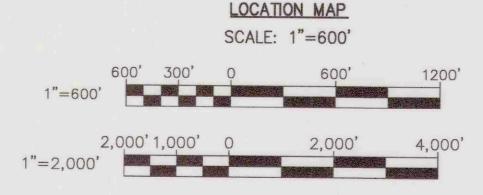
PUBLIC WATER NOTES:

- 1. IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 26.04.01.33, DIRECT AND INDIRECT ADDITIVES, SUPPLIERS OF WATER SHALL ONLY USE PRODUCTS (ANY MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY) THAT MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE/NSF INTERNATIONAL (ANSI/NSF) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THE PRODUCTS CAN ALSO BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY THE ANSI FOR SUCH TESTING (I.E. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS RESEARCH AND TESTING, ONTARIO CA, UNDERWRITERS LABORATORY, NORTHBROOK IL, AND WATER QUALITY ASSOCIATION,
- 2. IN COMPLIANCE WITH COMAR 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(A)(4)(8), MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, WHICH WENT INTO EFFECT IN MARYLAND IN JANUARY 2012.



VICINITY MAP SCALE: 1"=2,000'





SHEET INDEX

SHEET NO.	DWG. NO.	TITLE
GENERA 1 2 3 4	G-01 G-02 G-03 G-04	TITLE SHEET ABBREVIATIONS AND LEGEND PROCESS FLOW DIAGRAM & DESIGN CRITERIA HYDRAULIC PROFILES
<u>CIVIL</u> 5 6 7 8 9	C-01 C-02 C-03 C-04 C-05	EXISTING CONDITIONS CLEARING AND GRUBBING SITE IMPROVEMENTS & PIPING PLAN SITE DETAILS SITE DETAILS
EROSION 10 11 12 13 14 15 16 17	ESC-01 ESC-02 ESC-03 ESC-04 ESC-05 ESC-06 SWM-01 SWM-02	GRADING AND SEDIMENT CONTROL NOTES GRADING AND SEDIMENT CONTROL NOTES GRADING AND SEDIMENT CONTROL DETAILS GRADING AND SEDIMENT CONTROL DETAILS
STRUCTU 18 19 20 21 22 23 24 25	JRAL S-01 S-02 S-03 S-04 S-05 S-06 S-07 S-08	STRUCTURAL GENERAL NOTES PROCESS FLOW DIAGRAM & DESIGN CRITERIA PROCESS FLOW DIAGRAM & DESIGN CRITERIA FOUNDATION PLAN FOUNDATION SECTIONS STRUCTURAL DETAILS STRUCTURAL DETAILS STANDARD SECTIONS AND DETAILS
ARCHITE 26 27 28 29	CTURAL A-01 A-02 A-03 A-04	LIFE SAFETY CODE REVIEW FLOOR PLAN BUILDING ELEVATIONS DETAILS AND DOOR SCHEDULE
30 31 32	PM-01 PM-02 PM-03 PM-04	FLOOR PLAN SECTIONS SECTIONS SECTIONS AND DETAILS
MECHANI 34 35	CAL M-01 M-02	MECHANICAL AND HVAC SYSTEMS MECHANICAL AND HVAC SYSTEMS SECTIONS AND SCHEDULES
40	E-01 E-02 E-03 E-04 E-05 E-06 E-07	ELECTRICAL ABBREVIATIONS, SYMBOLS, LEGENDS NOTES, AND SITE PLAN CLARIFIER BUILDING ELECTRICAL ONE—LINE DIAGRAM AND PANELBOARD SCHEDULE CLARIFIER BUILDING LIGHTING AND RECEPTACLE PLAN CLARIFIER BUILDING POWER PLAN DAF UNITS POWER PLAN CLARIFIER BUILDING HVAC ELECTRICAL PLAN ELECTRICAL DETAILS AND EXHAUST FAN EF—1 CONTROL PANEL

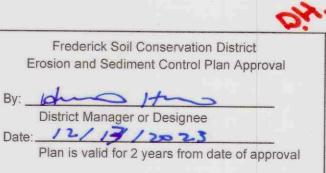
STORMWATER MANAGEMENT NOTES:

1. ANTICAPATED STORMWATER MANAGEMENT WILL BE PROVIDED BY STRUCTURAL (RAIN GARDEN/GRAVEL WETLAND) AND NON-STRUCTURAL METHODS (DISCONNETED ROOFTOPS AND NON-ROOFTOP AREAS)

THOSE ROOF FOR AREAS)		
SITE SWM SUM	MARY TAB	LE
PARCEL AREA	AC	90.55
SITE AREA	AC	0.26
DISTURBANCE AREA	AC	0.21
EXISTING IMPERVIOUS	AC	0.0
PROPOSED IMPERVIOUS	AC	0.09
TOTAL IMPERVIOUS	AC	0.09
SITE Pe	INCHES	1.6
DEVELOPMENT TYPE	NEW DEVELOPMENT	
ESDv REQUIRED	CF	518
ESDv PROVIDED	CF	535
Pe ACHIEVED	INCHES	1.65

2. MDE WATERSHED:

UPPER MONOCACY RIVER (MDE-8: 02140303)



SCD approval for sediment and erosion control is in accordance with the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control and is contingent upon issuance of all applicable regulatory permits.

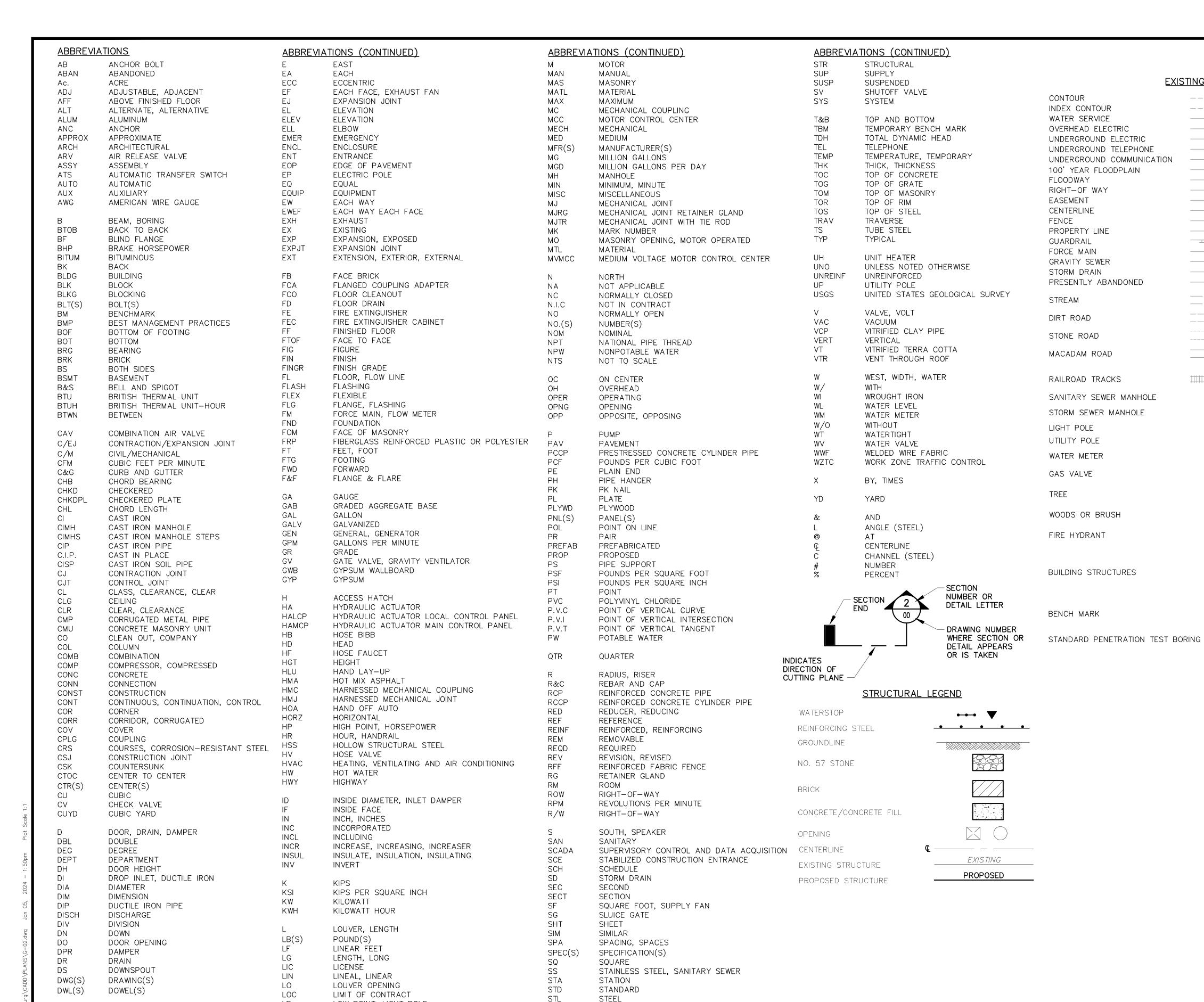
> A/P #: DUE DATE:



CHECKED BY DRAWN BY DATE WJG 2023 **RK&K PROJECT NUMBER** 20119

DRAWING NUMBER

G - 01SHEET NO. 01 OF 42



STOR

STORAGE

LOW POINT, LIGHT POLE

GENERAL LEGEND

TRAVERSE/CONTROL POINT

_____14 _____

----*15* -----

—— UGT ——

_____ UGC _____

_____ 100 YR _____

———— FM _v ————

----- SS _x ------

_____ SD _x ____

A

440

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——— UGE ——

EXISTING

GUY POLE ITEMS TO BE DEMOLISHED

AND REMOVED

BITUMINOUS PAVEMENT

GRASS AREA

STONE SURFACE

DOOR

<u>PROPOSED</u>

CONTOUR INDEX CONTOUR RIGHT-OF-WAY TEMPORARY EASEMENT GATE VALVE CHECK VALVE REDUCER ELBOW UP ELBOW DOWN FENCE UNDERGROUND ELECTRIC FORCE MAIN GAS STORM DRAIN LIMIT OF DISTURBANCE LIMIT OF CLEARING SUPER SILT FENCE WATER DRAIN PROPERTY LINE TEE

EXISTING UTILITY TO BE ABANDONED BY CONTRACTOR

EXISTING UTILITY TO BE ABANDONED BY OTHERS NEW BITUMINOUS PAVEMENT

NEW GRASS AREA

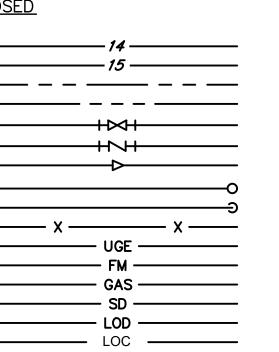
STABILIZED CONSTRUCTION ENTRANCE

STORMWATER EASEMENT

DOOR

DUCTWORK TURNING VANES

DRAINAGE ARROW



---- SSF-----

SCE

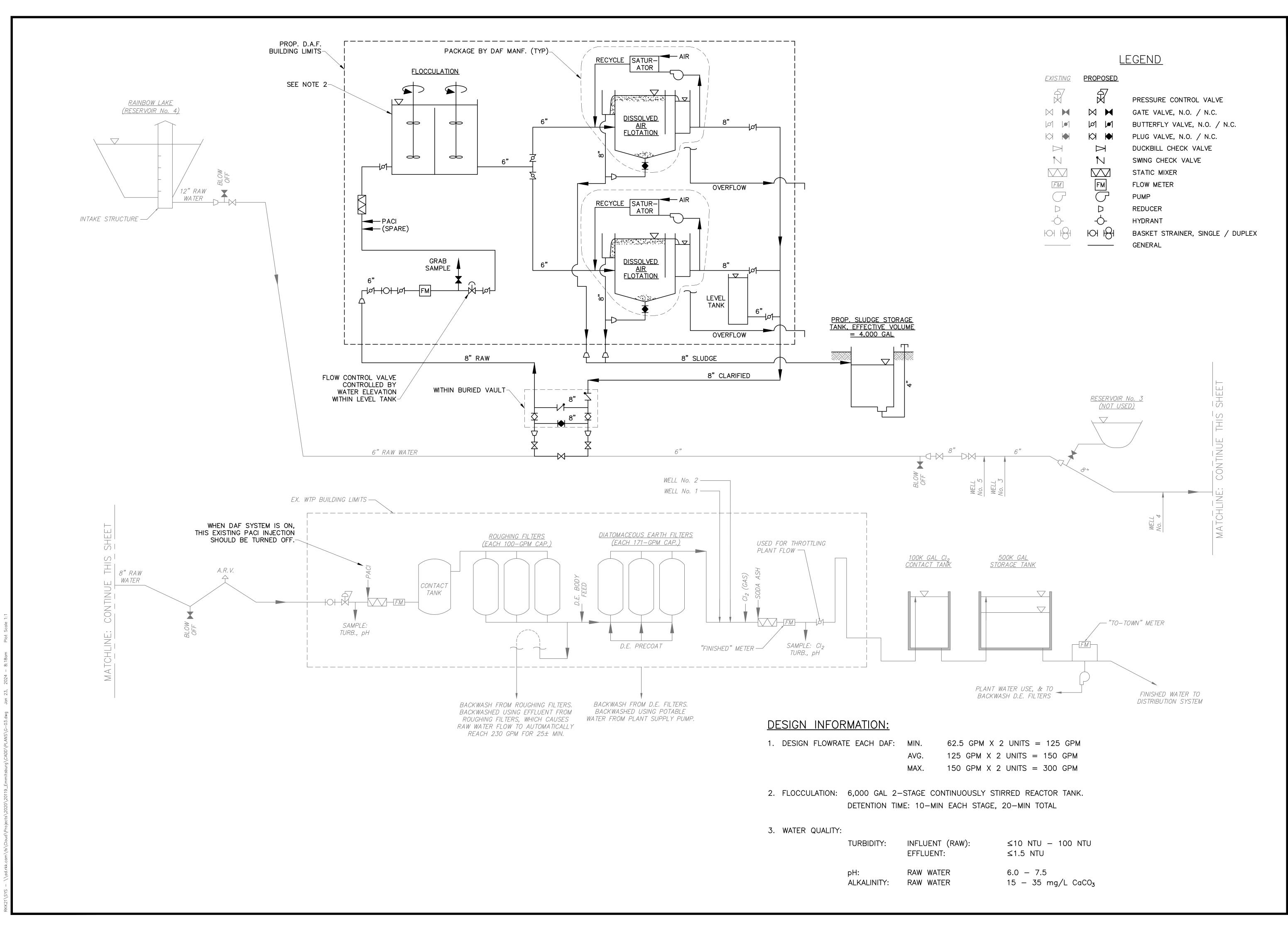
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LICENSE INC. ZU300				
ENGINEER UNDER THE LAWS OF				
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PROFESSIONAL CE				

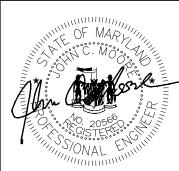
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RK&K PROJECT NUMBER		
20119		

DRAWING NUMBER G - 02

SHEET NO. 02 OF 42





CUMENTS WERE PREPARED OR DULY LICENSED PROFESSIONAL THE STATE OF MARYLAND. EXPIRATION DATE 09/06/2024

F PRATT STREET, SUITE 500

MORE, MARYLAND 21202

800.787.3755

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EXPIRAT

700 EAST PRATT S

BALTIMORE, MA

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REISSUED FOR BID - ADDENDUM NO. 3 02/06/2024
DESCRIPTION BY DATE
REVISIONS

OWN OF EMMITSBURG, MARYLAND
WATER PLANT CLARIFIER
CIP NO: 4-1600-40-160-1
D, EMMITSBURG ELECTION DISTRICT NO. 5, FREDERICK COUNTY, MARYLAND
S FLOW DIAGRAM & DESIGN CRITERIA

ENGINEER CHECKED BY

DD JCM

DRAWN BY DATE

DD 1/2024

RK&K PROJECT NUMBER

20119

DRAWING NUMBER

SHEET NO. 03 OF 42

