

PROJECT: HENDERSON COUNTY SCHOOLS WASTEWATER SYSTEMS - SPOTSVILLE, CAIRO, AND NIAGARA HENDERSON, KY

OWNER: HENDERSON COUNTY BOARD OF EDUCATION 5704 AIRLINE ROAD HENDERSON, KENTUCKY 42420

ARCHITECT: R.B.S. DESIGN GROUP, P.S.C. 723 HARVARD DRIVE OWENSBORO, KENTUCKY 42301 270-683-1158 (F)270-683-2446

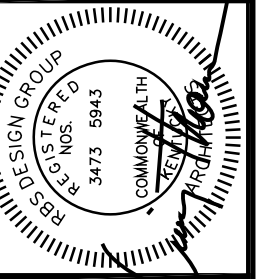
CIVIL ENGINEER: BACON/ FARMER/ WORKMAN ENGINEERING 500 SOUTH 17TH STREET PO BOX 120 PADUCAH, KENTUCKY 42002 270-443-1995 (F)270-519-6279



723 Harvard Drive, Owensboro, KY 42301 Phone: (270) 683-1158 Fax: (270) 683-2446 Email: info@rbsdesign.com

Job Number: 2006, Drawn by: SD, Checked by: CT, Date: May 7th, 2024

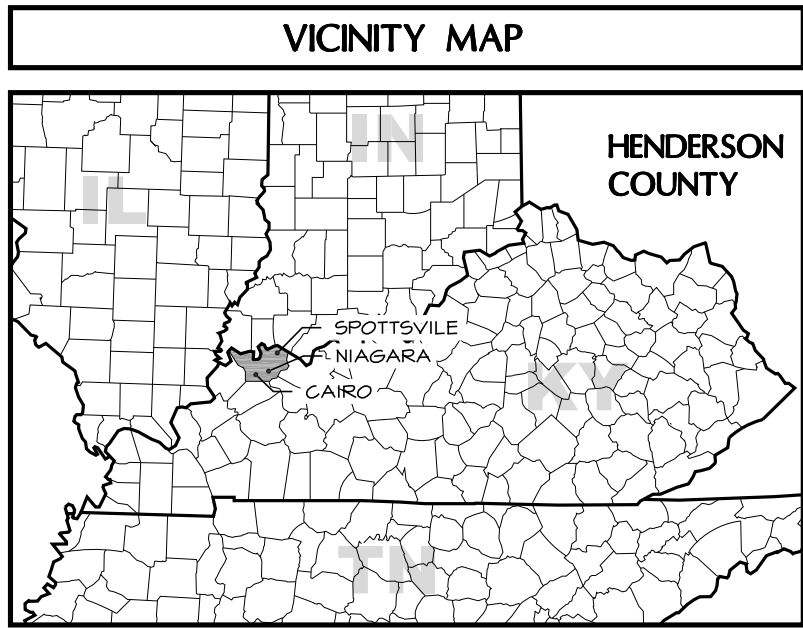
Revisions table with columns for NO., DATE, and DESCRIPTION.



Professional Engineer information and title sheet details.

HENDERSON COUNTY SCHOOLS WASTEWATER SYSTEMS - SPOTSVILLE, CAIRO, AND NIAGARA HENDERSON, KY

TITLE SHEET



LOCAL MAPS



MATERIALS & GRAPHIC SYMBOLS table with categories: EARTHWORK, CONCRETE, MASONRY, STONE, METAL, WOOD, GLAZING, INSULATION, FINISHES, PARTITIONS, and SYMBOLS.

ABBREVIATIONS table listing symbols and their corresponding terms, such as A.F.F. for ABOVE FINISH FLOOR and INSUL for INSULATION.

STRUCTURAL DESIGN DATA table including design codes (KBC 2015) and wind load data (WIND LON).

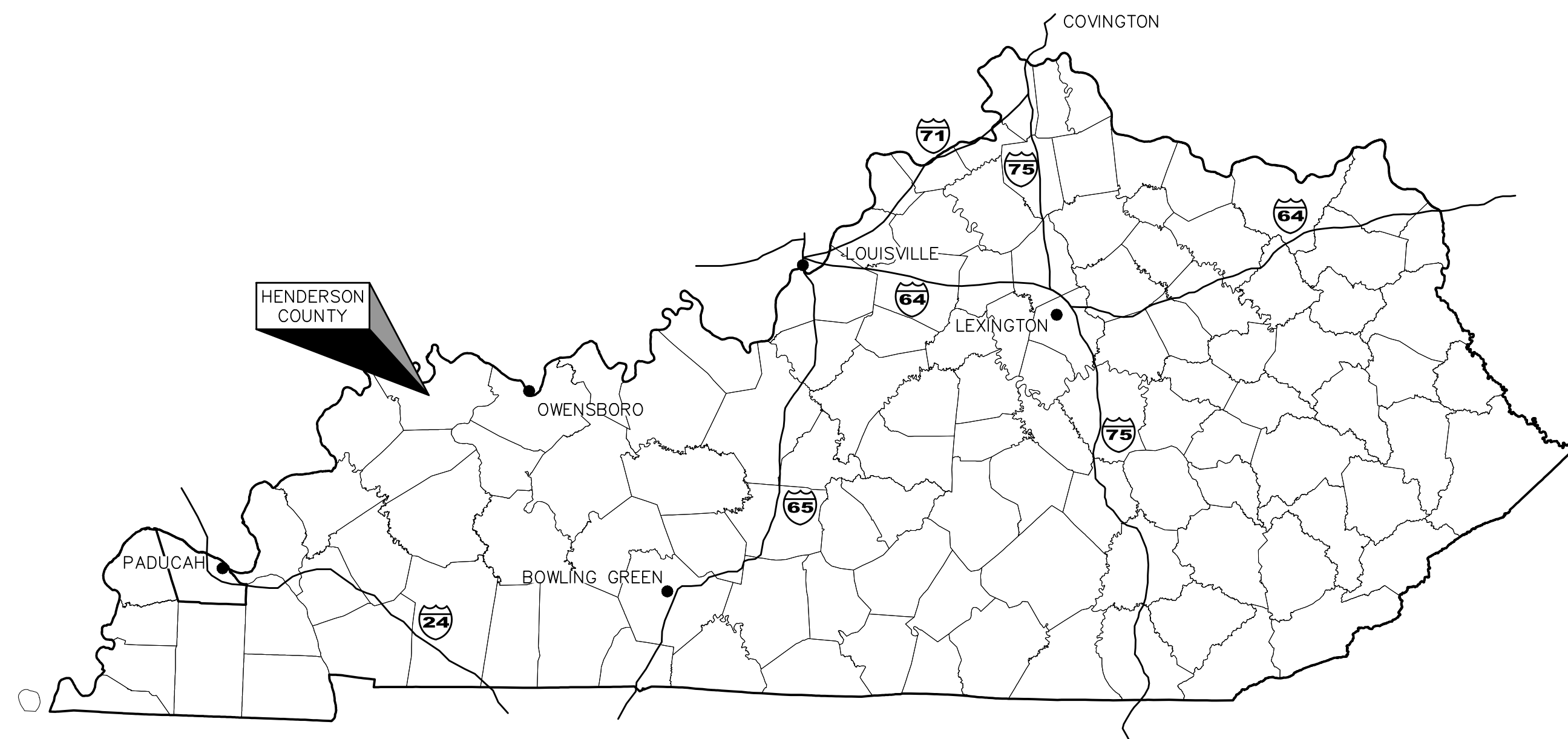
SHEET INDEX table listing titles (TJ) and their corresponding sheet numbers (CIVL, C1, C1.1, etc.).

DESIGN DATA table containing project scope, design criteria, and record drawing/set number information.

WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA

BG NUMBER: 23-416
DISTRICT: HENDERSON COUNTY

FOR
HENDERSON COUNTY BOARD OF EDUCATION
HENDERSON, KENTUCKY



STATE MAP

INDEX OF DRAWINGS	
DWG. NO.	DRAWING TITLE
C0.0	COVER SHEET
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C1.2	SITE DEMOLITION PLAN - NIAGARA ELEMENTARY SCHOOL
C1.3	SITE DEMOLITION PLAN - CAIRO ELEMENTARY SCHOOL
C2.1	PROPOSED DEVELOPMENT PLAN - SPOTTSVILLE ELEMENTARY SCHOOL
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C3.3	W.W.T.P. TANK SIZES AND DIMENSIONS
C3.4	SCHEMATIC PROFILE THROUGH PACKAGE W.W.T.P.'s

OWNER

HENDERSON COUNTY BOARD OF EDUCATION
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HENDERSON, KY 42420
OFFICE: (270) 831-5000
FAX: (270) 831-5009

DIRECTOR OF MAINTENANCE
BEN PAYNE

ARCHITECT

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OWENSBORO, KY 42301
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CRAIG THOMAS, PRESIDENT

ENGINEER / SURVEYOR

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PADUCAH, KENTUCKY 42003
OFFICE: (270) 443-1995
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PROJECT ENGINEER
JOSEPH MATESEVAC, P.E.

SURVEYOR
JETT WOOD, P.L.S.

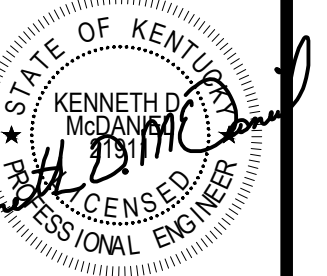
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JOB NUMBER	21046
DRAWN BY	JM
CHECKED BY	KM
DATE	MAY 7, 2024

REVISIONS	NO.	DATE



05/07/2024

HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
HENDERSON, KY
COVER SHEET

SHEET NUMBER
C0.0

OF #

- GENERAL NOTES:**
- IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT/ENGINEER/OWNER.
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 - CONTRACTOR SHALL PROTECT ALL SURROUNDING AREAS DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE, TO A CONDITION EQUAL TO OR GREATER THAN THE PRE-CONSTRUCTION CONDITION, ANY DAMAGES TO ON-SITE OR OFF-SITE PROPERTIES OR APPURTENANCES CAUSED BY THE CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL CONDUCT DEMOLITION AND DEBRIS REMOVAL OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. CONTRACTOR SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE.
 - UNDERGROUND UTILITIES ARE PRESENT WITHIN THE DEMOLITION AND NEW CONSTRUCTION LIMITS, INCLUDING SANITARY SEWER, STORM SEWER, WATER, UNDERGROUND AND ABOVEGROUND TELEPHONE AND ELECTRICITY. OTHER UTILITIES MAY BE PRESENT THAT WERE NOT VISIBLE OR ABLE TO BE IDENTIFIED BY THE SURVEY. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED PRIOR TO DEMOLITION OPERATIONS. ALL SITE UTILITIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR OR UTILITY COMPANY, AT THE EXPENSE OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITY SERVICES WITH THE UTILITY PROVIDER PRIOR TO CONSTRUCTION.
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 - IF TREES ARE SCHEDULED TO BE REMOVED IN THE PLAN, THEN ORGANIC MATERIAL FROM CLEARING AND GRUBBING OF THIS VEGETATION SHALL BE REMOVED FROM THE SITE. IN NO CASE SHALL ANY ORGANIC MATERIAL BE BURIED ON-SITE.
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LEGEND

---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EASEMENTS
---	BUILDING TO BE DEMOLISHED
---	PAVEMENT TO BE DEMOLISHED
---	SIDEWALK TO BE DEMOLISHED
---	PARKING STRIPE TO BE REMOVED
---	GAS LINE TO BE DEMOLISHED
---	STORM SEWER TO BE DEMOLISHED
---	WATER LINE TO BE DEMOLISHED
---	SANITARY SEWER TO BE DEMOLISHED
---	SANITARY SEWER FORCE MAIN TO BE DEMOLISHED
---	OVERHEAD ELECTRIC TO BE DEMOLISHED
---	UNDERGROUND ELECTRIC TO BE DEMOLISHED
---	OVERHEAD COMMUNICATIONS TO BE DEMOLISHED
---	UNDERGROUND COMMUNICATIONS TO BE DEMOLISHED
---	EXISTING BUILDING
---	EXISTING PAVEMENT
---	EXISTING SIDEWALK
---	EXISTING PARKING STRIPE
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING STORM SEWER
---	EXISTING WATER LINE
---	EXISTING SANITARY SEWER
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING OVERHEAD COMMUNICATIONS
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING UNDERGROUND COMMUNICATIONS
---	EXISTING GAS LINE

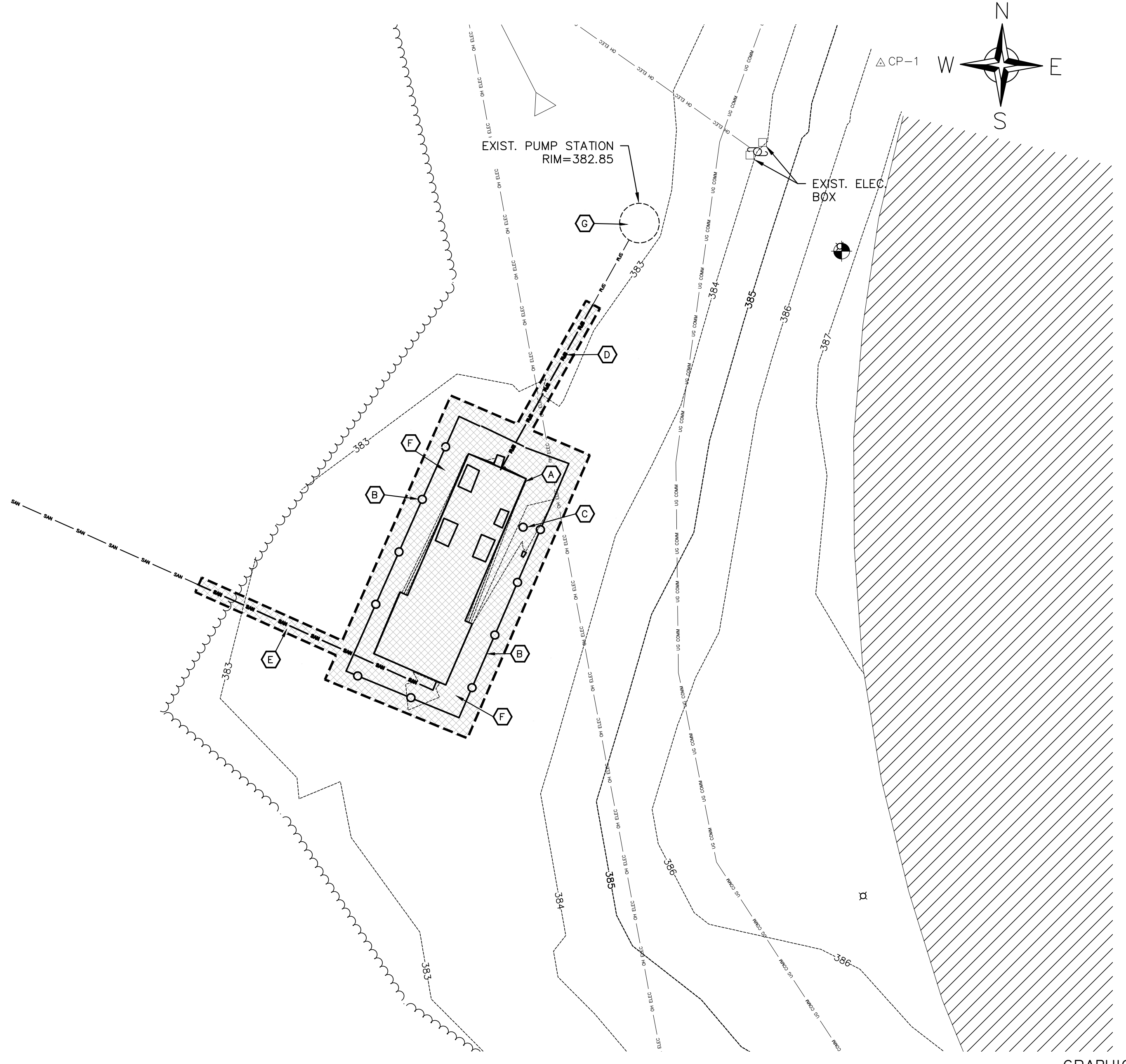
FLOOD ZONE INFORMATION:
 THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE A, WITHOUT BASE FLOOD ELEVATION; AS SHOWN ON THE HENDERSON COUNTY UNINCORPORATED AREAS (210286) MAP NO. 21101C0255E, EFFECTIVE 2/20/2013.

BURIED UTILITIES NOTE
 BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

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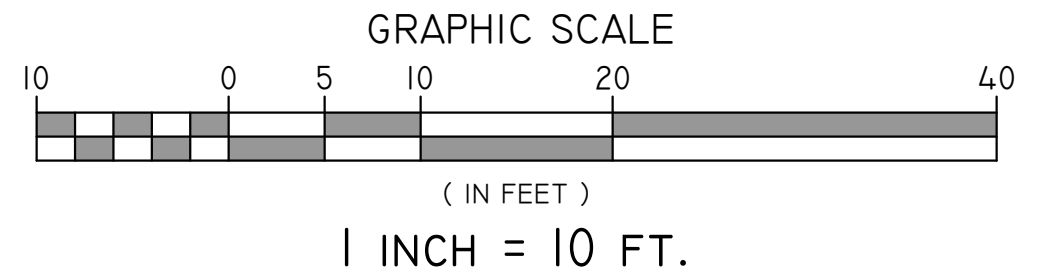


2 VICINITY MAP - SPOTTSVILLE ELEMENTARY SCHOOL
 SCALE: 1" = 200'



- DEMOLITION AND CLOSURE PLAN KEY NOTES:**
 NOTE: DEMOLITION SHALL NOT BEGIN UNTIL START-UP OF NEW PLANT AND TRANSFER OF FLOW HAS BEEN COMPLETED.
- ⓐ REMOVE ALL RESIDUAL SLUDGE FROM EXISTING WWTP. REMOVE EXISTING WWTP FROM SITE AND DISPOSE OFF-SITE IN A LEGAL MANNER. BACKFILL ALL EXCAVATION WITH SUITABLE GRANULAR MATERIAL. ALL UTILITIES MUST BE DISCONNECTED AND REMOVED.
 - ⓑ REMOVE CHAIN LINK FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER.
 - ⓒ REMOVE WATER SPIGOT AND CAP WATER LINE TEMPORARILY FOR CONNECTION TO NEW YARD HYDRANT.
 - ⓓ REMOVE SECTION OF SANITARY SEWER FORCE MAIN BETWEEN NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT) AND THE EXISTING WWTP.
 - ⓔ REMOVE SECTION OF WWTP EFFLUENT LINE FROM EXISTING WWTP TO NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT).
 - ⓕ EXCAVATE 1' MATERIAL FROM AREA WITHIN EXISTING FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER. FILL TOP 1' WITH TOPSOIL, FINE GRADE TO DRAIN, SEED, FERTILIZE AND PROTECT.
 - ⓖ REMOVE STEEL LID FROM EXISTING LIFT STATION AND DISPOSE OR RECYCLE OFF-SITE IN A LEGAL MANNER. REPLACE LID (SEE PROPOSED DEVELOPMENT PLAN FOR LID REPLACEMENT KEYNOTE).

1 SITE DEMOLITION PLAN - SPOTTSVILLE ELEMENTARY SCHOOL
 SCALE: 1" = 10'



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JOB NUMBER	21046
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CHECKED BY	KM
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REVISIONS	NO.	DATE

STATE OF KENTUCKY
 KENNETH MICHAEL
 LICENSED PROFESSIONAL ENGINEER
 05/07/2024

HENDERSON COUNTY SCHOOLS
 WASTEWATER SYSTEMS - SPOTTSVILLE, CARO, AND NIAGARA
 HENDERSON, KY
 SITE DEMOLITION PLAN - SPOTTSVILLE ELEMENTARY

SHEET NUMBER

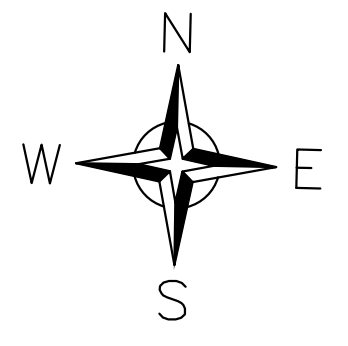
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OF 4

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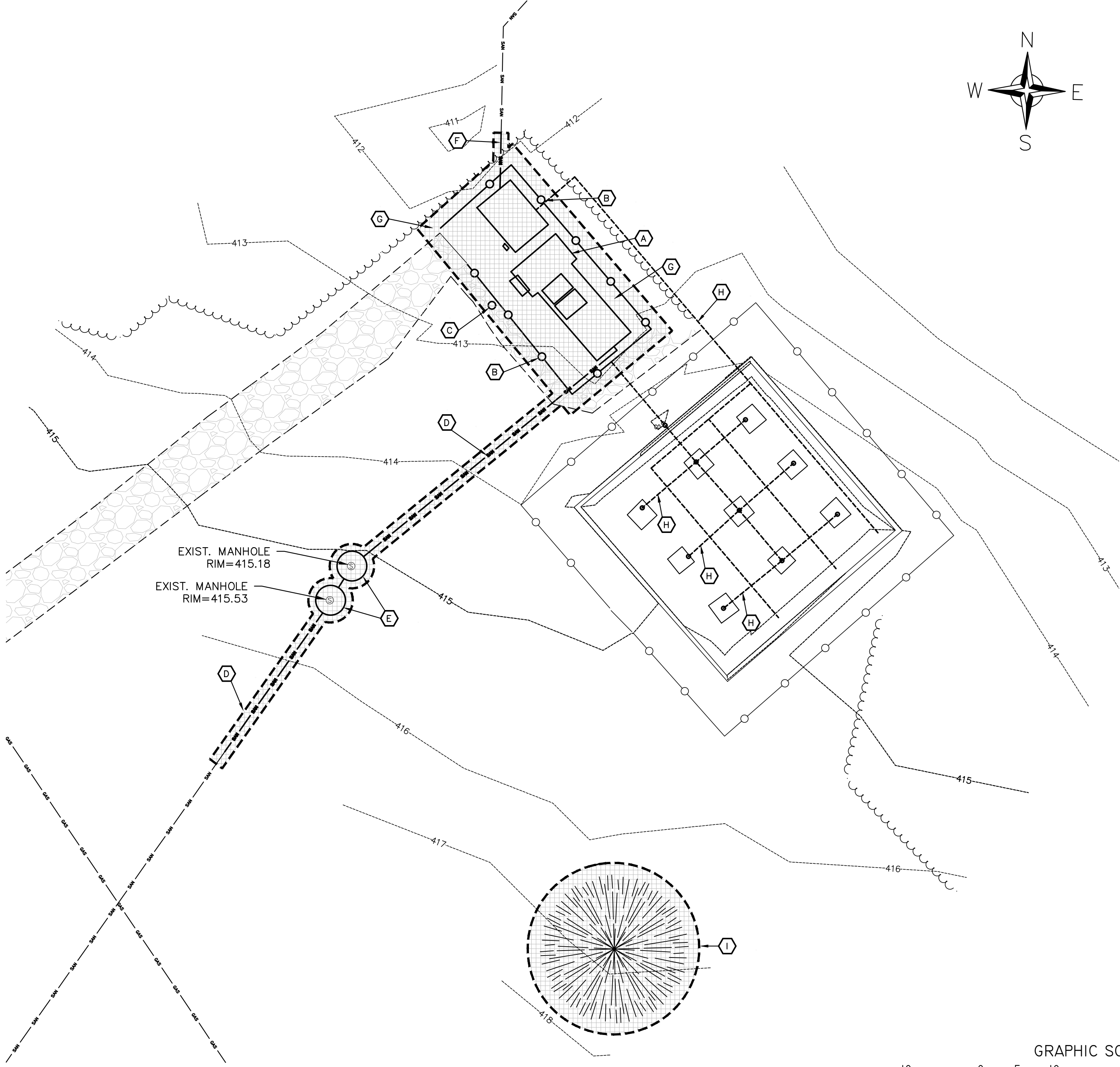


2 VICINITY MAP - NIAGARA ELEMENTARY SCHOOL
SCALE: 1" = 200'



LEGEND

---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EASEMENTS
---	BUILDING TO BE DEMOLISHED
---	PAVEMENT TO BE DEMOLISHED
---	SIDEWALK TO BE DEMOLISHED
---	PARKING STRIPE TO BE REMOVED
---	GAS LINE TO BE DEMOLISHED
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---	EXISTING UNDERGROUND COMMUNICATIONS
---	EXISTING GAS LINE



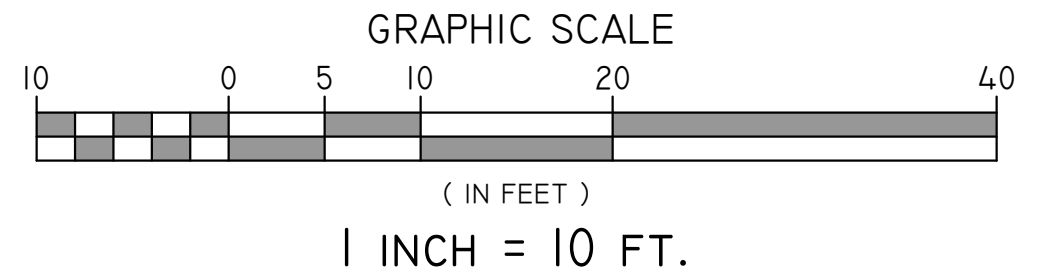
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 - ⊖ REMOVE CHAIN LINK FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER.
 - ⊖ REMOVE WATER SPIGOT AND CAP WATER LINE TEMPORARILY FOR CONNECTION TO NEW YARD HYDRANT.
 - ⊖ REMOVE SECTION OF SANITARY SEWER INFLUENT LINE BETWEEN NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT), TRASH TRAP, AND THE EXISTING WWTP.
 - ⊖ REMOVE ALL RESIDUAL TRASH, GREASE AND SLUDGE FROM TRASH TRAP. REMOVE EXISTING TRASH TRAP (CONCRETE TANK) AND DISPOSE OFF-SITE IN LEGAL MANNER. BACKFILL ALL EXCAVATION WITH COMPACTED GRANULAR MATERIAL. ADD TOPSOIL SEED AND PROTECT.
 - ⊖ REMOVE SECTION OF WWTP EFFLUENT LINE FROM EXISTING WWTP TO NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT).
 - ⊖ EXCAVATE 1' MATERIAL FROM AREA WITHIN EXISTING FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER. FILL TOP 1' WITH TOPSOIL, FINE GRADE TO DRAIN, SEED, FERTILIZE AND PROTECT.
 - ⊖ SAND FILTER INFLUENT PIPING SHALL BE REMOVED, DISPOSED OFF-SITE IN A LEGAL MANNER, AND BE REPLACED. REMOVE TOP 12" OF SAND MEDIA AND DISPOSE OFF-SITE IN A LEGAL MANNER. REPLACE TOP 12" OF SAND MEDIA. SAND FILTER EFFLUENT PIPING SHALL REMAIN IN-PLACE TO NEW CONNECTION POINT AND BE RE-DIRECTED TO NEW DISINFECTION CONTACT TANK. SAND FILTER PIPING BEYOND NEW CONNECTION POINT SHALL BE REMOVED AND DISPOSED OFF-SITE IN A LEGAL MANNER. SEE PROPOSED DEVELOPMENT PLAN FOR REPLACEMENT AND REDIRECTED PIPING DETAILS.
 - ⊖ REMOVE TREE(S). EXCAVATE ENTIRE ROOT WAD AND DISPOSE OFF-SITE. BACKFILL, ADD TOPSOIL, SEED AND PROTECT.

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1 SITE DEMOLITION PLAN - NIAGARA ELEMENTARY SCHOOL
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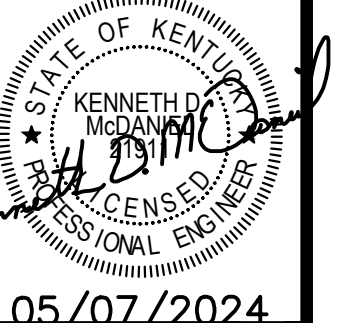


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WASTEWATER SYSTEMS - SPOTTSVILLE, CARO, AND NIAGARA
HENDERSON, KY
SITE DEMOLITION PLAN - NIAGARA ELEMENTARY

SHEET NUMBER
C1.2
OF 4

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 - THIS DRAWING WAS PREPARED FROM A TOPOGRAPHIC SURVEY BY BACON FARMER WORKMAN ENGINEERING & TESTING, INC.. EXISTING SITE FEATURES TO BE REMOVED MAY BE PRESENT THAT WERE NOT READILY VISIBLE AT THE TIME OF SURVEY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL ITEMS THAT MUST BE REMOVED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. THE CONTRACTOR MAY REMOVE ANY MISCELLANEOUS ITEMS LOCATED WITHIN THE CONSTRUCTION LIMITS THAT MUST BE REMOVED TO ACCOMMODATE THE NEW CONSTRUCTION AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER PRIOR TO REMOVING ANY ITEMS PRESENT THAT WERE NOT DELINEATED ON THIS PLAN.
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 - CONTRACTOR SHALL CONDUCT DEMOLITION AND DEBRIS REMOVAL OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. CONTRACTOR SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE.
 - UNDERGROUND UTILITIES ARE PRESENT WITHIN THE DEMOLITION AND NEW CONSTRUCTION LIMITS, INCLUDING SANITARY SEWER, STORM SEWER, WATER, UNDERGROUND AND ABOVEGROUND TELEPHONE AND ELECTRICITY. OTHER UTILITIES MAY BE PRESENT THAT WERE NOT VISIBLE OR ABLE TO BE IDENTIFIED BY THE SURVEY. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED PRIOR TO DEMOLITION OPERATIONS. ALL SITE UTILITIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR OR UTILITY COMPANY, AT THE EXPENSE OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITY SERVICES WITH THE UTILITY PROVIDER PRIOR TO CONSTRUCTION.
 - ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE HAULED OFF-SITE AND DISPOSED OF IN A LEGAL MANNER. ALL HAULING AND DISPOSAL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE OWNER.
 - IF TREES ARE SCHEDULED TO BE REMOVED IN THE PLAN, THEN ORGANIC MATERIAL FROM CLEARING AND GRUBBING OF THIS VEGETATION SHALL BE REMOVED FROM THE SITE. IN NO CASE SHALL ANY ORGANIC MATERIAL BE BURIED ON-SITE.
 - IF CLEARING AND GRUBBING OF THE SITE IS SPECIFIED IN THIS PLAN, ANY REMAINING ROOT ZONES SHALL BE FULLY GRUBBED TO ACCOMMODATE PLACEMENT AND COMPACTION OF FILL MATERIAL.
 - MULTIPLE SITE DEMOLITION ITEMS WERE SPECIFIED IN THIS PLAN. IF ITEMS REMAIN ON-SITE THAT ARE NOT SPECIFIED ON THIS DEMOLITION DRAWING, THAT INTERFERE WITH CONSTRUCTION, NOTIFY ARCHITECT OR ENGINEER IMMEDIATELY FOR COORDINATION ON REMOVAL OF SUCH ITEMS.

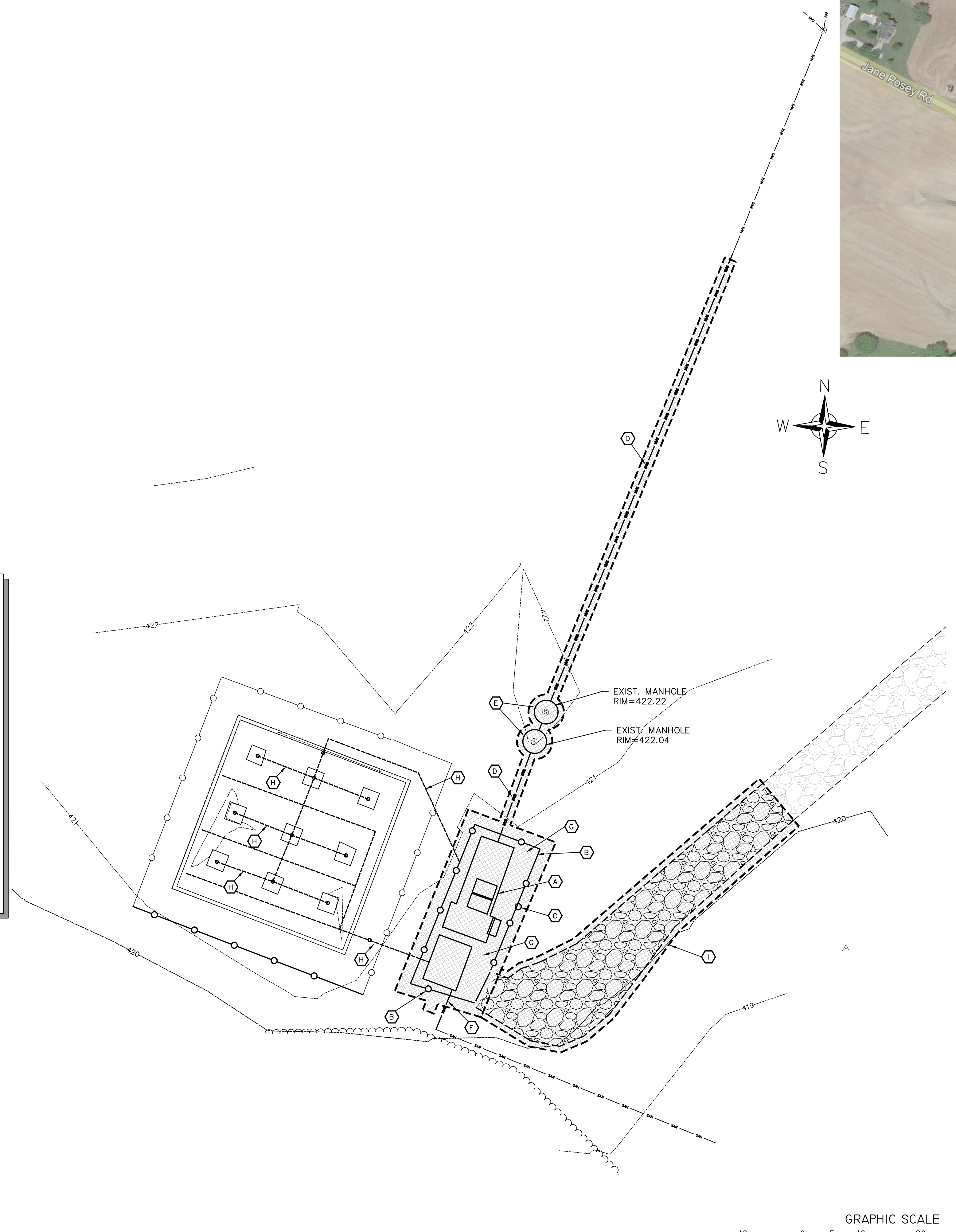
LEGEND

---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EASEMENTS
----	BUILDING TO BE DEMOLISHED
----	PAVEMENT TO BE DEMOLISHED
----	SIDEWALK TO BE DEMOLISHED
----	PARKING STRIPE TO BE REMOVED
----	GAS LINE TO BE DEMOLISHED
----	STORM SEWER TO BE DEMOLISHED
----	WATER LINE TO BE DEMOLISHED
----	SANITARY SEWER TO BE DEMOLISHED
----	SANITARY SEWER FORCE MAIN TO BE DEMOLISHED
----	OVERHEAD ELECTRIC TO BE DEMOLISHED
----	UNDERGROUND ELECTRIC TO BE DEMOLISHED
----	OVERHEAD COMMUNICATIONS TO BE DEMOLISHED
----	UNDERGROUND COMMUNICATIONS TO BE DEMOLISHED
----	EXISTING BUILDING
----	EXISTING PAVEMENT
----	EXISTING SIDEWALK
----	EXISTING PARKING STRIPE
----	EXISTING MAJOR CONTOUR
----	EXISTING MINOR CONTOUR
----	EXISTING STORM SEWER
----	EXISTING WATER LINE
----	EXISTING SANITARY SEWER
----	EXISTING OVERHEAD ELECTRIC
----	EXISTING OVERHEAD COMMUNICATIONS
----	EXISTING UNDERGROUND ELECTRIC
----	EXISTING UNDERGROUND COMMUNICATIONS
----	EXISTING GAS LINE

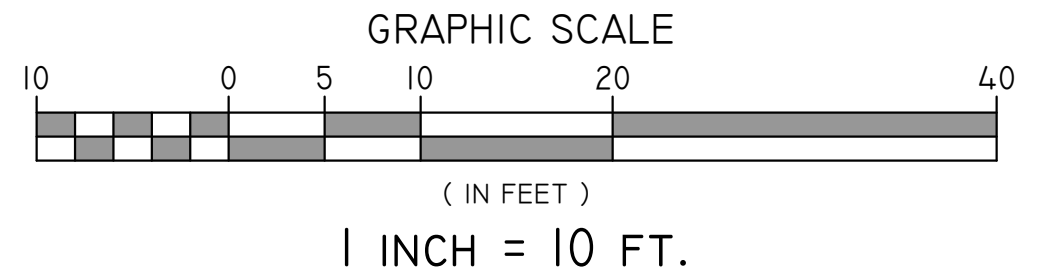
BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

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1 SITE DEMOLITION PLAN - CAIRO ELEMENTARY SCHOOL
 SCALE: 1" = 10'



2 VICINITY MAP - CAIRO ELEMENTARY SCHOOL
 SCALE: 1" = 200'

- DEMOLITION AND CLOSURE PLAN KEY NOTES:**
- NOTE: DEMOLITION SHALL NOT BEGIN UNTIL START-UP OF NEW PLANT AND TRANSFER OF FLOW HAS BEEN COMPLETED.
- A** REMOVE ALL RESIDUAL SLUDGE FROM EXISTING WWTP. REMOVE EXISTING WWTP FROM SITE AND DISPOSE OFF-SITE IN A LEGAL MANNER. BACKFILL ALL EXCAVATION WITH SUITABLE GRANULAR MATERIAL. ALL UTILITIES MUST BE DISCONNECTED AND REMOVED.
 - B** REMOVE CHAIN LINK FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER.
 - C** REMOVE WATER SPIGOT AND CAP WATER LINE TEMPORARILY FOR CONNECTION TO NEW YARD HYDRANT.
 - D** REMOVE SECTION OF SANITARY SEWER INFLUENT LINE BETWEEN NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT), TRASH TRAP, AND THE EXISTING WWTP.
 - E** REMOVE ALL RESIDUAL TRASH, GREASE AND SLUDGE FROM TRASH TRAP. REMOVE EXISTING TRASH TRAP (CONCRETE TANK) AND DISPOSE OFF-SITE IN LEGAL MANNER. BACKFILL ALL EXCAVATION WITH COMPACTED GRANULAR MATERIAL. ADD TOPSOIL SEED AND PROTECT.
 - F** REMOVE SECTION OF WWTP EFFLUENT LINE FROM EXISTING WWTP TO NEW CONNECTION POINT (SEE PROPOSED DEVELOPMENT PLAN FOR LOCATION OF NEW CONNECTION POINT).
 - G** EXCAVATE 1' MATERIAL FROM AREA WITHIN EXISTING FENCE AND DISPOSE OFF-SITE IN A LEGAL MANNER. FILL TOP 1" WITH TOPSOIL, FINE GRADE TO DRAIN, SEED, FERTILIZE AND PROTECT.
 - H** SAND FILTER INFLUENT PIPING SHALL BE REMOVED, DISPOSED OFF-SITE IN A LEGAL MANNER, AND BE REPLACED. REMOVE TOP 12" OF SAND MEDIA AND DISPOSE OFF-SITE IN A LEGAL MANNER. REPLACE TOP 12" OF SAND MEDIA. SAND FILTER EFFLUENT PIPING SHALL REMAIN IN-PLACE TO NEW CONNECTION POINT AND BE RE-DIRECTED TO NEW DISINFECTION CONTACT TANK. SAND FILTER PIPING BEYOND NEW CONNECTION POINT SHALL BE REMOVED AND DISPOSED OFF-SITE IN A LEGAL MANNER. SEE PROPOSED DEVELOPMENT PLAN FOR REPLACEMENT AND REDIRECTED PIPING DETAILS.
 - I** EXCAVATE GRAVEL IN HATCHED AREA AND DISPOSE OR RECYCLE IN A LEGAL MANNER. BACKFILL REMAINING VOID WITH TOPSOIL, FINE GRADE TO DRAIN, SEED, FERTILIZE AND PROTECT.

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 600 SOUTH 17th STREET PAULINA, KENTUCKY 40301
 PHONE: 270.443.1965 WWW.BFWENGINEERING.COM

RBS DESIGN GROUP
 Architecture
 723 Howard Drive Owensboro, KY 42301
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 E-Mail: office@rbsdesigngroup.com

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JOB NUMBER	21046
DRAWN BY	JM
CHECKED BY	KM
DATE	MAY 7, 2024
REVISIONS	
NO.	
DATE	



HENDERSON COUNTY SCHOOLS
 WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
 HENDERSON, KY
 SITE DEMOLITION PLAN - CAIRO ELEMENTARY


SHEET NUMBER
C1.3
 OF 4

FLOOD ZONE INFORMATION:

THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE A, WITHOUT BASE FLOOD ELEVATION; AS SHOWN ON THE HENDERSON COUNTY UNINCORPORATED AREAS (210286) MAP NO. 21101C0255E, EFFECTIVE 2/20/2013.

BENCHMARK INFORMATION:

NOTE: ELEVATIONS ARE BASED FROM U.S.G.S. DATUM (NAVD 88)

BM  CHISELED SQUARE WITH PINK PAINT ON LIGHT POLE CONCRETE BASE
ELEVATION = 389.61


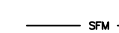
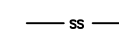
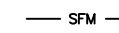
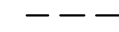
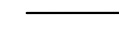
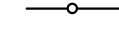



CONTROL POINT COORDINATES:

ΔCP-1
NORTHING: 3840879.633
EASTING: 4429293.580
ΔCP-2
NORTHING: 3840746.967
EASTING: 4429301.767

SITE UTILITY NOTES:

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH FEDERAL, STATE & LOCAL CODES AND SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY SIZE, TYPE, LOCATION AND DEPTH OF EXISTING UTILITIES.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING IMPROVED SURFACES (ASPHALT/CONCRETE), SHALL BE BACKFILLED WITH COMPACTED CRUSHED STONE. CONTRACTOR SHALL RESTORE EXISTING IMPROVED SURFACES WITH SAME TYPE AND THICKNESS, SEE DETAILS.
- THE CONTRACTOR SHALL FULLY RESTORE ALL AREAS (ASPHALT, CONCRETE, CURBS, SIDEWALKS, LANDSCAPING, & ETC.) DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE SANITARY SEWER LATERAL SHALL BE INSTALLED AT A MINIMUM OF 1.0% SLOPE, INSTALL STACKS AND CLEAN OUTS AS REQUIRED PER PLUMBING CODES.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS PRIOR TO ANY CONNECTIONS OR WORK INVOLVING THEIR FACILITIES. SCHOOL OWNED BURIED UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL SYSTEM AND LOCATE SCHOOL OWNED UTILITIES PRIOR TO THE START OF CONSTRUCTION, PROTECT DURING CONSTRUCTION, AND/OR REPAIR ANY DAMAGE TO EXISTING UTILITIES TO PRE-CONSTRUCTION CONDITION.
- ALL UTILITY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THAT PARTICULAR UTILITY PROVIDER'S STANDARDS, METHODS AND PROCEDURES.
- WATER AND ELECTRIC SERVICES SHALL BE EXTENDED FROM THE EXISTING WASTEWATER TREATMENT PLANT TO THE NEW WASTEWATER TREATMENT PLANT.

LEGEND

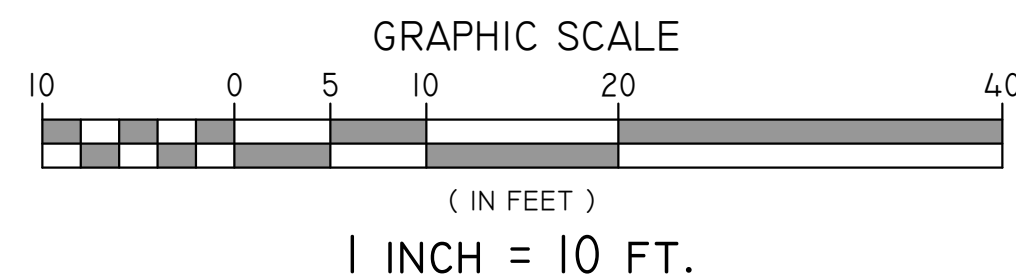
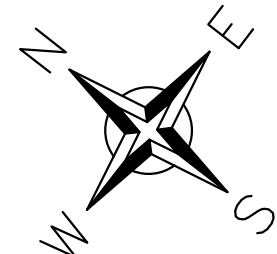
-  EXISTING SANITARY SEWER
-  EXISTING SANITARY FORCE MAIN
-  PROPOSED SANITARY SEWER
-  PROPOSED SANITARY FORCE MAIN
-  EXISTING EDGE OF GRAVEL
-  PROPOSED EDGE OF GRAVEL
-  PROPOSED FENCE
-  PROPOSED CONTOURS
-  PROPOSED GRAVEL SURFACE
-  PROPOSED BUILDING

BURIED UTILITIES NOTE

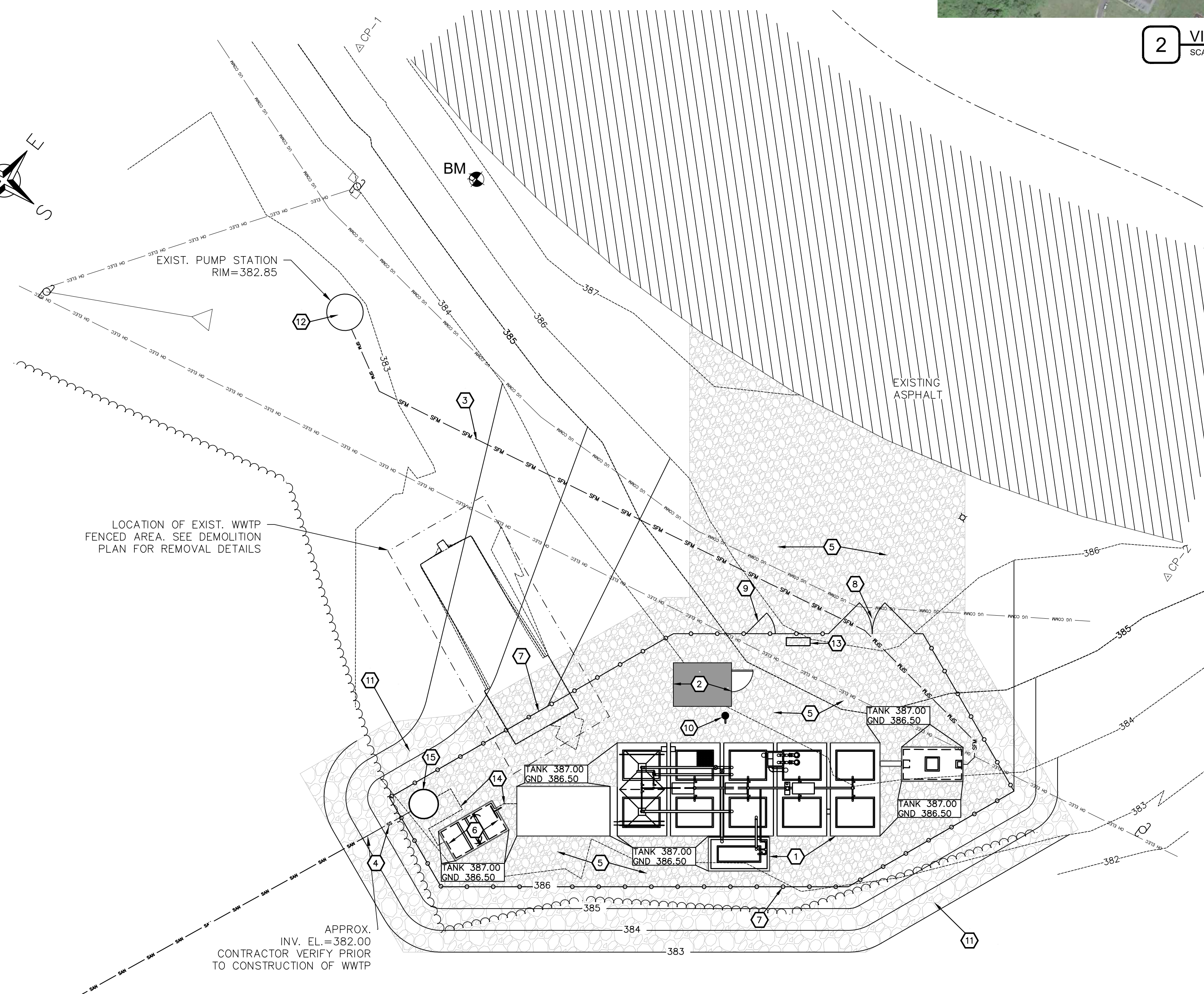
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1 PROPOSED DEVELOPMENT PLAN - SPOTTSVILLE ELEMENTARY SCHOOL
SCALE: 1" = 10'



2 VICINITY MAP - SPOTTSVILLE ELEMENTARY SCHOOL
SCALE: 1" = 200'

SITE PLAN KEY NOTES:

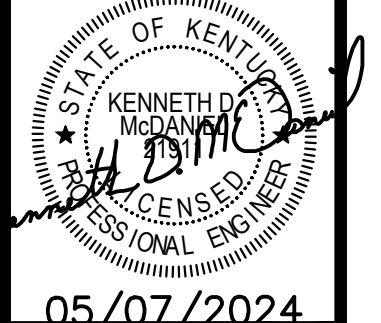
- * ALL KEY NOTES ARE FOR PROPOSED ITEMS. SEE SITE DETAIL SHEETS FOR SPECIFIC DETAILS OF CONSTRUCTION
- 1 NEW EXTENDED AERATION PACKAGE WASTEWATER TREATMENT PLANT (WWTP). MAJOR WWTP COMPONENTS INCLUDE: TRASH TRAP, AERATION TANK(S), SURGE TANK(S) AND PUMP(S), AIR SUPPLY SYSTEM, CLARIFIER(S), SLUDGE HOLDING TANK(S), SECONDARY CLARIFIER, CONTROLS, DISINFECTION TANK AND METERING. FINAL CONFIGURATION SHALL BE BY PACKAGE TREATMENT PLANT SUPPLIER/CONTRACTOR. TOP OF TANKS = 387.00 (2' ABOVE APPROXIMATE ADJACENT SPECIAL FLOOD HAZARD ELEV.). CONTROLS, ELECTRIC SERVICES, ETC. MUST BE ABOVE ELEV. 387.00. SEE WWTP SCHEMATIC, DETAIL 1, SHEET C3.2. ALL TANKS SHALL BE ANCHORED WITH CONCRETE ANCHORS TO PROTECT FROM BUOYANT FORCES DUE TO GROUNDWATER/FLOOD WATER UP TO ELEVATION 385.00. GRADE TO DRAIN AWAY FROM WWTP.
- 2 NEW PERACETIC ACID FEED BUILDING; SEE DETAILS 1 AND 2, SHEET C3.1. FLOOR ELEVATION OF PERACETIC ACID FEED BUILDING SHALL BE AT MINIMUM 387.00. PERACETIC ACID FEED LINE SHALL BE ROUTED TO DISINFECTION CONTACT TANK.
- 3 NEW 2" SDR 21 PVC SANITARY SEWER FORCE MAIN FEED TO WWTP; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION
- 4 NEW 6" SDR 21 PVC WWTP EFFLUENT DISCHARGE LINE; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 5 NEW GRAVEL SURFACE AND/OR GRAVEL DRIVE; SEE DETAIL 4, SHEET C3.1.
- 6 NEW CHLORINE DISINFECTION CONTACT TANK; SEE DETAIL 5, SHEET C3.1. INSTALL CHLORINATION AND DECHLORINATION TABLET FEEDERS AS REQUIRED. INSTALL FLOW METER AT END OF TANK. TOP TANK = 387.00.
- 7 NEW 6" TALL CHAIN LINK FENCE WITH PVC SLATS, SEE DETAIL 6, SHEET C3.1.
- 8 NEW 12' WIDE VEHICLE ACCESS GATE
- 9 NEW 4' WIDE PEDESTRIAN GATE
- 10 NEW YARD HYDRANT, LOCATE AND CONNECT TO EXISTING WATER LINE THAT SERVED THE EXISTING YARD HYDRANT.
- 11 NEW RIP RAP SLOPE PROTECTION. 18" THICK - KYTC CLASS II CHANNEL LINING RIP RAP OVER FILTER FABRIC.
- 12 REPLACE LIFT STATION HINGED LID WITH NEW STAINLESS STEEL HINGED LID.
- 13 NEW CONTROL PANEL AND POWER SUPPLY. POWER SUPPLY SHALL INCLUDE A TRANSFER SWITCH AND EMERGENCY CONNECTION FOR A BACKUP GENERATOR AT AN EASILY ACCESSIBLE POINT TO DELIVER AND CONNECT A PORTABLE GENERATOR.
- 14 NEW 6" SDR 21 PVC SANITARY SEWER FEED FROM SECONDARY CLARIFIER TO DISINFECTION CONTACT TANK AND FROM TANK TO MANHOLE; SEE DETAIL 3 SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 15 NEW PERACETIC ACID DISINFECTION CONTACT MANHOLE; TOP OF MANHOLE = 387.00. 48" x 128" HIGH. INSTALL AIR DIFFUSER AND CONNECT TO MAIN WWTP AIR FLOW AND CONTROLS FOR CONSTANT AIR FLOW AND MIXING.

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
600 SOUTH 77th STREET PAOLI, KY 40350
PHONE: 270.443.1965 WWW.BFWENGINEERING.COM

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723 Howard Drive, Owensboro, KY 42301
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E-Mail: office@rbsdesigngroup.com

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DO NOT SCALE DRAWINGS
VERIFY ALL DIMENSIONS AND ELEVATIONS
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS
REVISIONS AND CORRECTIONS AT THE USER'S RISK

JOB NUMBER	21046	DATE	MAY 7, 2024
DRAWN BY	JM	CHECKED BY	KM
REVISIONS		NO.	
DATE			



HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CARO, AND NIAGARA
HENDERSON, KY
PROPOSED DEVELOPMENT PLAN - SPOTTSVILLE ELEMENTARY

SHEET NUMBER
C2.1
OF 4

FLOOD ZONE INFORMATION:

THIS PROPERTY IS NOT LOCATED IN A "SPECIAL FLOOD HAZARD AREA", AS SHOWN ON THE NATIONAL FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 21101C0357E, EFFECTIVE FEBRUARY 20, 2013.

BENCHMARK INFORMATION:

NOTE: ELEVATIONS ARE BASED FROM U.S.G.S. DATUM (NAVD 88)

BM CHISELED SQUARE WITH PINK PAINT ON LIGHT POLE CONCRETE BASE
ELEVATION = 421.63

CONTROL POINT COORDINATES:

ΔCP-7
NORTHING: 3796011.430
EASTING: 4412512.740
ΔCP-8
NORTHING: 3795898.295
EASTING: 4412614.040

SITE UTILITY NOTES:

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH FEDERAL, STATE & LOCAL CODES AND SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY SIZE, TYPE, LOCATION AND DEPTH OF EXISTING UTILITIES.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING IMPROVED SURFACES (ASPHALT/CONCRETE), SHALL BE BACKFILLED WITH COMPACTED CRUSHED STONE. CONTRACTOR SHALL RESTORE EXISTING IMPROVED SURFACES WITH SAME TYPE AND THICKNESS, SEE DETAILS.
- THE CONTRACTOR SHALL FULLY RESTORE ALL AREAS (ASPHALT, CONCRETE, CURBS, SIDEWALKS, LANDSCAPING, & ETC.) DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE SANITARY SEWER LATERAL SHALL BE INSTALLED AT A MINIMUM OF 1.0% SLOPE. INSTALL STACKS AND CLEAN OUTS AS REQUIRED PER PLUMBING CODES.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS PRIOR TO ANY CONNECTIONS OR WORK INVOLVING THEIR FACILITIES. SCHOOL OWNED BURIED UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL SYSTEM AND LOCATE SCHOOL OWNED UTILITIES PRIOR TO THE START OF CONSTRUCTION. PROTECT DURING CONSTRUCTION AND/OR REPAIR ANY DAMAGE TO EXISTING UTILITIES TO PRE-CONSTRUCTION CONDITION.
- ALL UTILITY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THAT PARTICULAR UTILITY PROVIDER'S STANDARDS, METHODS AND PROCEDURES.
- WATER AND ELECTRIC SERVICES SHALL BE EXTENDED FROM THE EXISTING WASTEWATER TREATMENT PLANT TO THE NEW WASTEWATER TREATMENT PLANT.

LEGEND

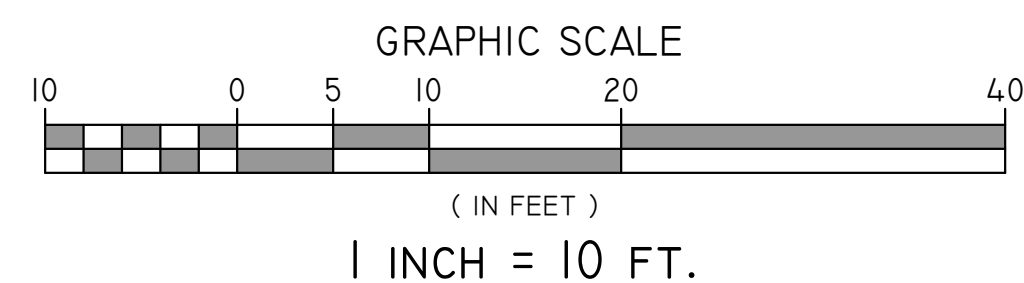
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCE MAIN
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCE MAIN
- EXISTING EDGE OF GRAVEL
- PROPOSED EDGE OF GRAVEL
- PROPOSED FENCE
- PROPOSED CONTOURS
- PROPOSED GRAVEL SURFACE
- PROPOSED BUILDING

BURIED UTILITIES NOTE

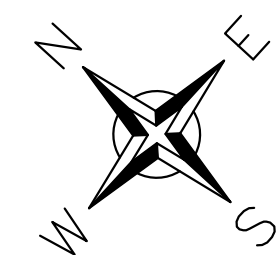
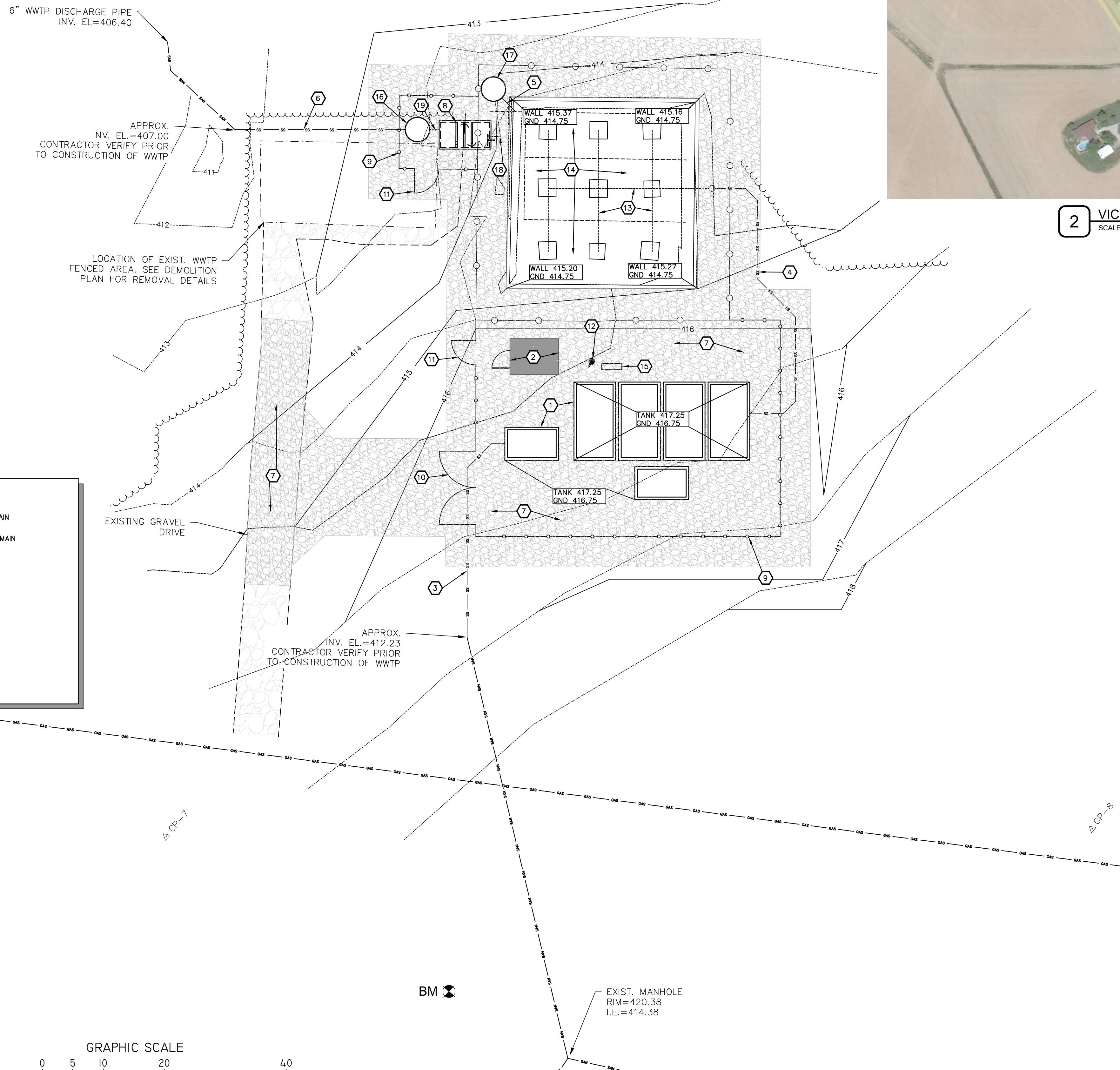
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1 PROPOSED DEVELOPMENT PLAN - NIAGARA ELEMENTARY SCHOOL
SCALE: 1"=10'



2 VICINITY MAP - NIAGARA ELEMENTARY SCHOOL
SCALE: 1"=200'

SITE PLAN KEY NOTES:

- * ALL KEY NOTES ARE FOR PROPOSED ITEMS. SEE SITE DETAIL SHEETS FOR SPECIFIC DETAILS OF CONSTRUCTION
- 1 NEW EXTENDED AERATION PACKAGE WASTEWATER TREATMENT PLANT (WWTP). MAJOR WWTP COMPONENTS INCLUDE: TRASH TRAP, SURGE TANK(S)/PUMPS, AERATION TANK(S), CLARIFIER(S), AIR SUPPLY SYSTEM, SLUDGE HOLDING TANK(S), DOSING TANK/PUMPS, CONTROLS, DISINFECTION TANK AND METERING. FINAL CONFIGURATION SHALL BE BY PACKAGE TREATMENT PLANT CONTRACTOR. SEE WWTP SCHEMATIC, DETAIL 1, SHEET C3.2. ALL TANKS SHALL BE ANCHORED WITH CONCRETE ANCHORS TO PROTECT FROM BUOYANT FORCES. TOP OF TANKS = 417.25. GRADE TO DRAIN AWAY FROM WWTP.
- 2 NEW PERACETIC ACID FEED BUILDING; SEE DETAILS 1 AND 2, SHEET C3.1. F.F.E.=416.50
- 3 NEW 6" SDR 21 PVC SANITARY SEWER FEED TO WWTP; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 4 NEW 3" SDR 21 PVC SANITARY SEWER FORCE MAIN FEED FROM WWTP PUMP TO SAND FILTER; SEE DETAIL 3 SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 5 NEW 6" SDR 21 PVC SANITARY SEWER FEED FROM SAND FILTER TO DOSING PUMP STATION; SEE DETAIL 3 SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 6 NEW 6" SDR 21 PVC LINE FROM PERACETIC ACID CONTACT MANHOLE TO TIE INTO EXISTING DISCHARGE LINE; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
- 7 NEW GRAVEL SURFACE AND/OR GRAVEL DRIVE; SEE DETAIL 4, SHEET C3.1.
- 8 NEW CHLORINE DISINFECTION CONTACT TANK; SEE DETAIL 5, SHEET C3.1. TOP OF TANK = 414.00. INSTALL CHLORINATION AND DE-CHLORINATION TABLET FEEDERS AS REQUIRED. INSTALL FLOW METER AT END OF TANK.
- 9 NEW 6" TALL CHAIN LINK FENCE WITH PVC SLATS, SEE DETAIL 6, SHEET C3.1.
- 10 NEW 12' WIDE VEHICLE ACCESS GATE
- 11 NEW 4' WIDE PEDESTRIAN GATE
- 12 NEW YARD HYDRANT, LOCATE AND CONNECT TO EXISTING WATER LINE THAT SERVED THE EXISTING YARD HYDRANT.
- 13 REPLACE 3" PERFORATED PVC INFLUENT PIPING TO SAND FILTER IN SAME ORIENTATION AND AT SAME ELEVATION AS EXISTING PIPING. INFLUENT FEED FROM OPPOSITE END OF SAND FILTER FROM EXISTING AS SHOWN.
- 14 REPLACE TOP 12" OF SAND FILTER MEDIA. TOP SAND = 414.75±.
- 15 NEW CONTROL PANEL AND POWER SUPPLY. POWER SUPPLY SHALL INCLUDE A TRANSFER SWITCH AND EMERGENCY CONNECTION FOR A BACKUP GENERATOR AT AN EASILY ACCESSIBLE POINT TO DELIVER AND CONNECT A PORTABLE GENERATOR.
- 16 NEW PERACETIC ACID DISINFECTION CONTACT MANHOLE; TOP OF MANHOLE = 414.00. 48" x 128" HIGH. INSTALL AIR DIFFUSER AND CONNECT TO MAIN WWTP AIR FLOW AND CONTROLS FOR CONSTANT AIR FLOW AND MIXING.
- 17 NEW DUPLEX PUMP DOSING PUMP STATION
- 18 NEW 3" SDR 21 PVC FORCE MAIN FROM DOSING PUMP STATION TO CHLORINE CONTACT TANK.
- 19 NEW 6" SDR 21 PVC GRAVITY LINE FROM CHLORINE CONTACT TANK TO PERACETIC ACID CONTACT MANHOLE.

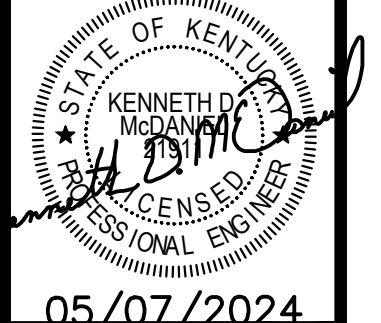
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Architecture

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05/07/2024

HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CARO, AND NIAGARA
HENDERSON, KY

PROPOSED DEVELOPMENT PLAN - NIAGARA ELEMENTARY

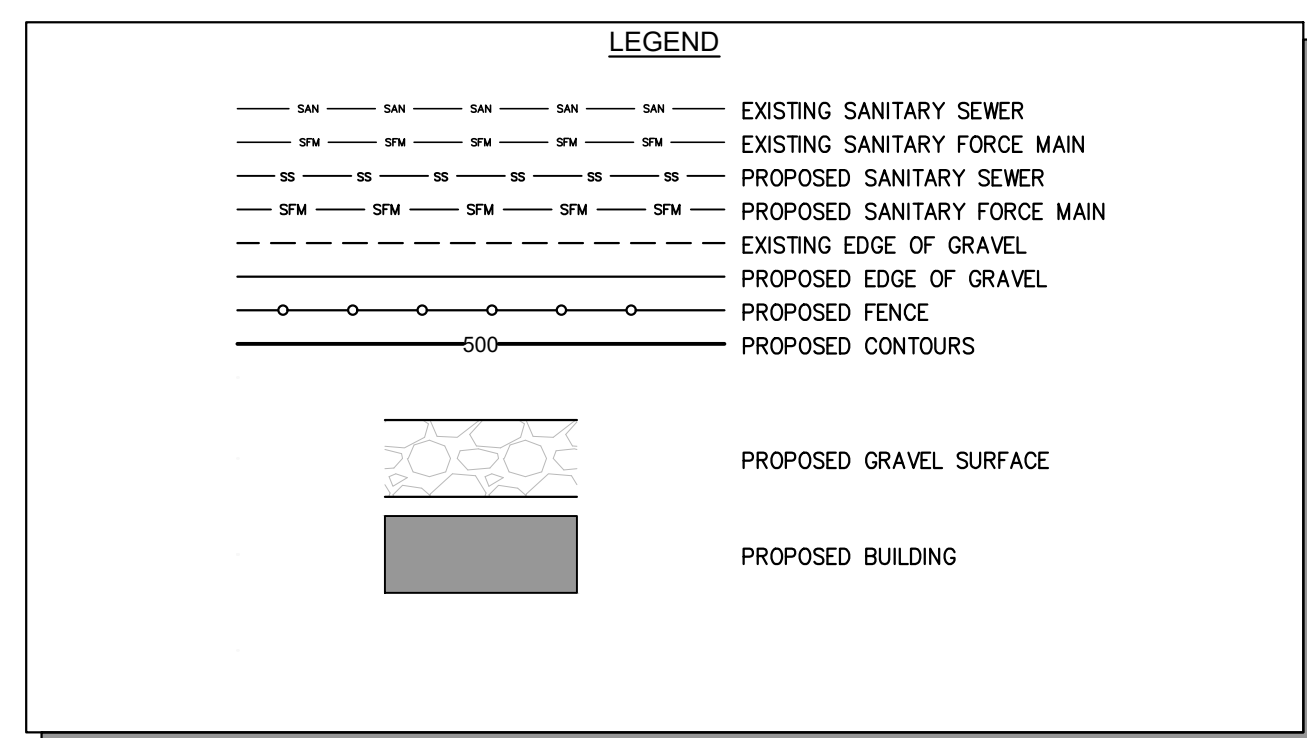
SHEET NUMBER
C2.2

FLOOD ZONE INFORMATION:
 THIS PROPERTY IS NOT LOCATED IN A "SPECIAL FLOOD HAZARD AREA", AS SHOWN ON THE NATIONAL FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 21101C0335E, EFFECTIVE FEBRUARY 20, 2013.

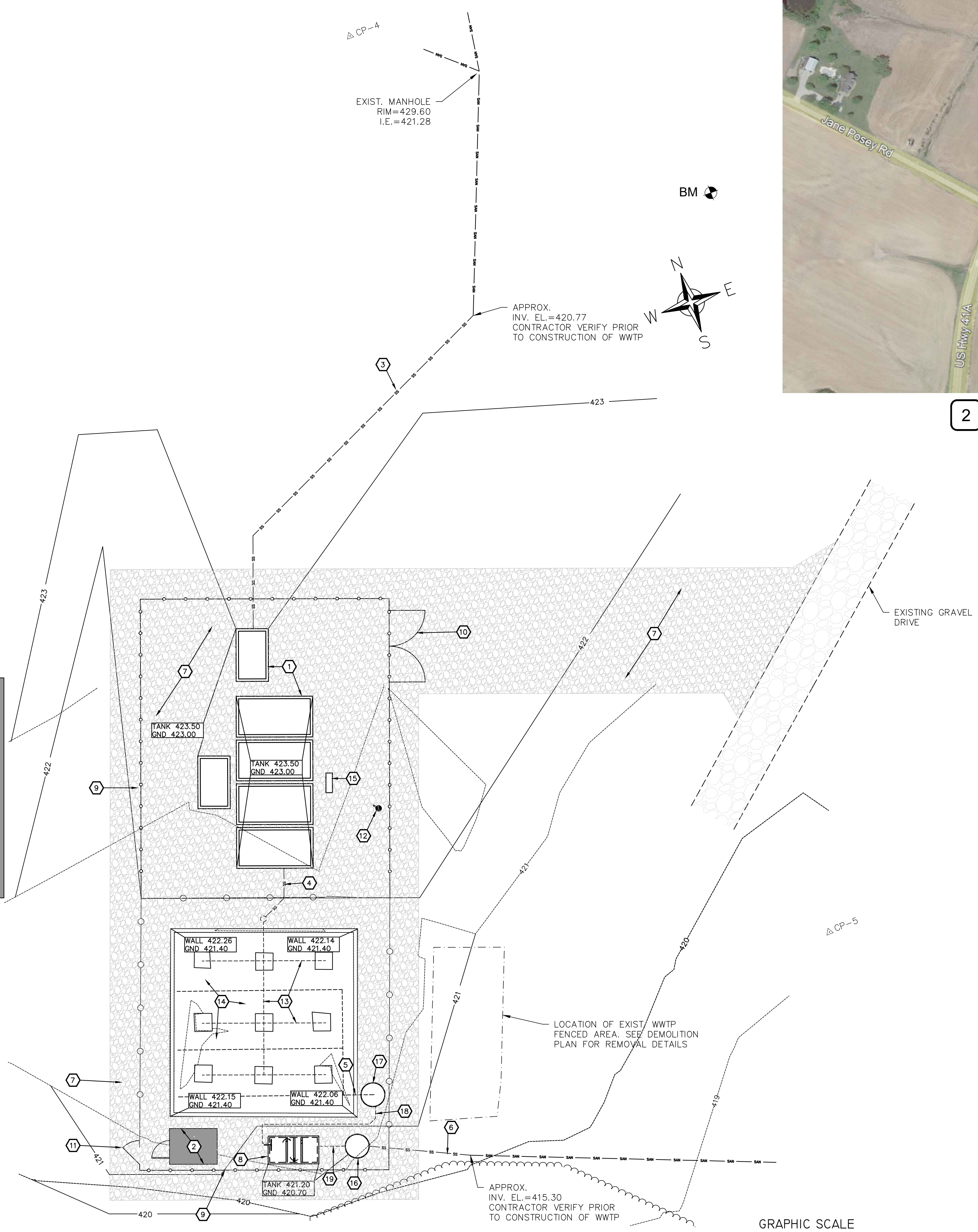
BENCHMARK INFORMATION:
 NOTE: ELEVATIONS ARE BASED FROM U.S.G.S. DATUM (NAVD 88)
 BM CHISELED SQUARE WITH PINK PAINT ON CONCRETE PAD
 ELEVATION = 425.28

CONTROL POINT COORDINATES:
 ΔCP-4
 NORTHING: 3800863.390
 EASTING: 4370825.800
 ΔCP-5
 NORTHING: 3800694.501
 EASTING: 4370847.767

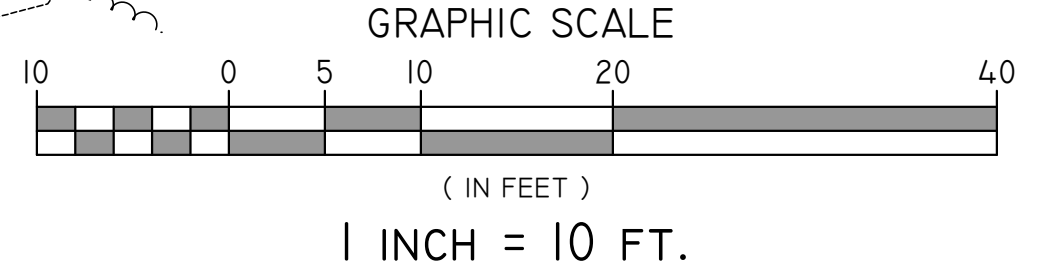
- SITE UTILITY NOTES:**
1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH FEDERAL, STATE & LOCAL CODES AND SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY SIZE, TYPE, LOCATION AND DEPTH OF EXISTING UTILITIES.
 3. ALL TRENCHES BENEATH PROPOSED OR EXISTING IMPROVED SURFACES (ASPHALT/CONCRETE), SHALL BE BACKFILLED WITH COMPACTED CRUSHED STONE. CONTRACTOR SHALL RESTORE EXISTING IMPROVED SURFACES WITH SAME TYPE AND THICKNESS, SEE DETAILS.
 4. THE CONTRACTOR SHALL FULLY RESTORE ALL AREAS (ASPHALT, CONCRETE, CURBS, SIDEWALKS, LANDSCAPING, & ETC.) DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
 5. THE SANITARY SEWER LATERAL SHALL BE INSTALLED AT A MINIMUM OF 1.0% SLOPE. INSTALL STACKS AND CLEAN OUTS AS REQUIRED PER PLUMBING CODES.
 6. CONTRACTOR SHALL NOTIFY UTILITY OWNERS PRIOR TO ANY CONNECTIONS OR WORK INVOLVING THEIR FACILITIES. SCHOOL OWNED BURIED UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL SYSTEM AND LOCATE SCHOOL OWNED UTILITIES PRIOR TO THE START OF CONSTRUCTION, PROTECT DURING CONSTRUCTION, AND/OR REPAIR ANY DAMAGE TO EXISTING UTILITIES TO PRE-CONSTRUCTION CONDITION.
 7. ALL UTILITY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THAT PARTICULAR UTILITY PROVIDER'S STANDARDS, METHODS AND PROCEDURES.
 8. WATER AND ELECTRIC SERVICES SHALL BE EXTENDED FROM THE EXISTING WASTEWATER TREATMENT PLANT TO THE NEW WASTEWATER TREATMENT PLANT.



BURIED UTILITIES NOTE
 BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.



1 PROPOSED DEVELOPMENT PLAN - CAIRO ELEMENTARY SCHOOL
 SCALE: 1" = 10'



2 VICINITY MAP - CAIRO ELEMENTARY SCHOOL
 SCALE: 1" = 200'

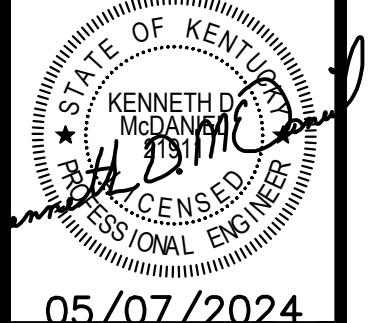
- SITE PLAN KEY NOTES:**
- * ALL KEY NOTES ARE FOR PROPOSED ITEMS. SEE SITE DETAIL SHEETS FOR SPECIFIC DETAILS OF CONSTRUCTION
 - 1 NEW EXTENDED AERATION PACKAGE WASTEWATER TREATMENT PLANT (WWTP). MAJOR WWTP COMPONENTS INCLUDE: TRASH TRAP, SURGE TANK(S)/PUMPS, AERATION TANK(S), CLARIFIER(S), AIR SUPPLY SYSTEM, SLUDGE HOLDING TANK(S), DOSING TANK/PUMPS, CONTROLS, DISINFECTION TANK AND METERING. FINAL CONFIGURATION SHALL BE BY PACKAGE TREATMENT PLANT CONTRACTOR. SEE WWTP SCHEMATIC, DETAIL 1, SHEET C3.2. ALL TANKS SHALL BE ANCHORED WITH CONCRETE ANCHORS TO PROTECT FROM BUOYANT FORCES. TOP OF TANKS = 423.50.
 - 2 NEW PERACETIC ACID FEED BUILDING; SEE DETAILS 1 AND 2, SHEET C3.1. F.F.E. = 421.50
 - 3 NEW 6" SDR 21 PVC SANITARY SEWER FEED TO WWTP; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
 - 4 NEW 3" SDR 21 PVC SANITARY SEWER FORCE MAIN FEED FROM WWTP PUMP TO SAND FILTER; SEE DETAIL 3 SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
 - 5 NEW 6" SDR 21 PVC SANITARY SEWER FEED FROM SAND FILTER TO DOSING PUMP STATION; SEE DETAIL 3 SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
 - 6 NEW 6" SDR 21 PVC LINE FROM PERACETIC ACID CONTACT MANHOLE TO TIE INTO EXISTING DISCHARGE LINE; SEE DETAIL 3, SHEET C3.1 FOR TRENCH SECTION, PROVIDE CLEANOUTS AT ALL BENDS.
 - 7 NEW GRAVEL SURFACE AND/OR GRAVEL DRIVE; SEE DETAIL 4, SHEET C3.1.
 - 8 NEW CHLORINE DISINFECTION CONTACT TANK; SEE DETAIL 5, SHEET C3.1. TOP OF TANK = 421.20. INSTALL CHLORINATION AND DE-CHLORINATION TABLET FEEDERS AS REQUIRED. INSTALL FLOW METER AT END OF TANK.
 - 9 NEW 6' TALL CHAIN LINK FENCE WITH PVC SLATS, SEE DETAIL 6, SHEET C3.1.
 - 10 NEW 12' WIDE VEHICLE ACCESS GATE
 - 11 NEW 4' WIDE PEDESTRIAN GATE
 - 12 NEW YARD HYDRANT, LOCATE AND CONNECT TO EXISTING WATER LINE THAT SERVED THE EXISTING YARD HYDRANT.
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 - 14 REPLACE TOP 12" OF SAND FILTER MEDIA. TOP SAND = 421.40±.
 - 15 NEW CONTROL PANEL AND POWER SUPPLY. POWER SUPPLY SHALL INCLUDE A TRANSFER SWITCH AND EMERGENCY CONNECTION FOR A BACKUP GENERATOR AT AN EASILY ACCESSIBLE POINT TO DELIVER AND CONNECT A PORTABLE GENERATOR.
 - 16 NEW PERACETIC ACID DISINFECTION CONTACT MANHOLE; TOP OF MANHOLE = 421.20. 48"Ø X 128" HIGH. INSTALL AIR DIFFUSER AND CONNECT TO MAIN WWTP AIR FLOW AND CONTROLS FOR CONSTANT AIR FLOW AND MIXING.
 - 17 NEW DUPLEX PUMP DOSING PUMP STATION
 - 18 NEW 3" SDR 21 PVC FORCE MAIN FROM DOSING PUMP STATION TO CHLORINE CONTACT TANK.
 - 19 NEW 6" SDR 21 PVC GRAVITY LINE FROM CHLORINE CONTACT TANK TO PERACETIC ACID CONTACT MANHOLE.

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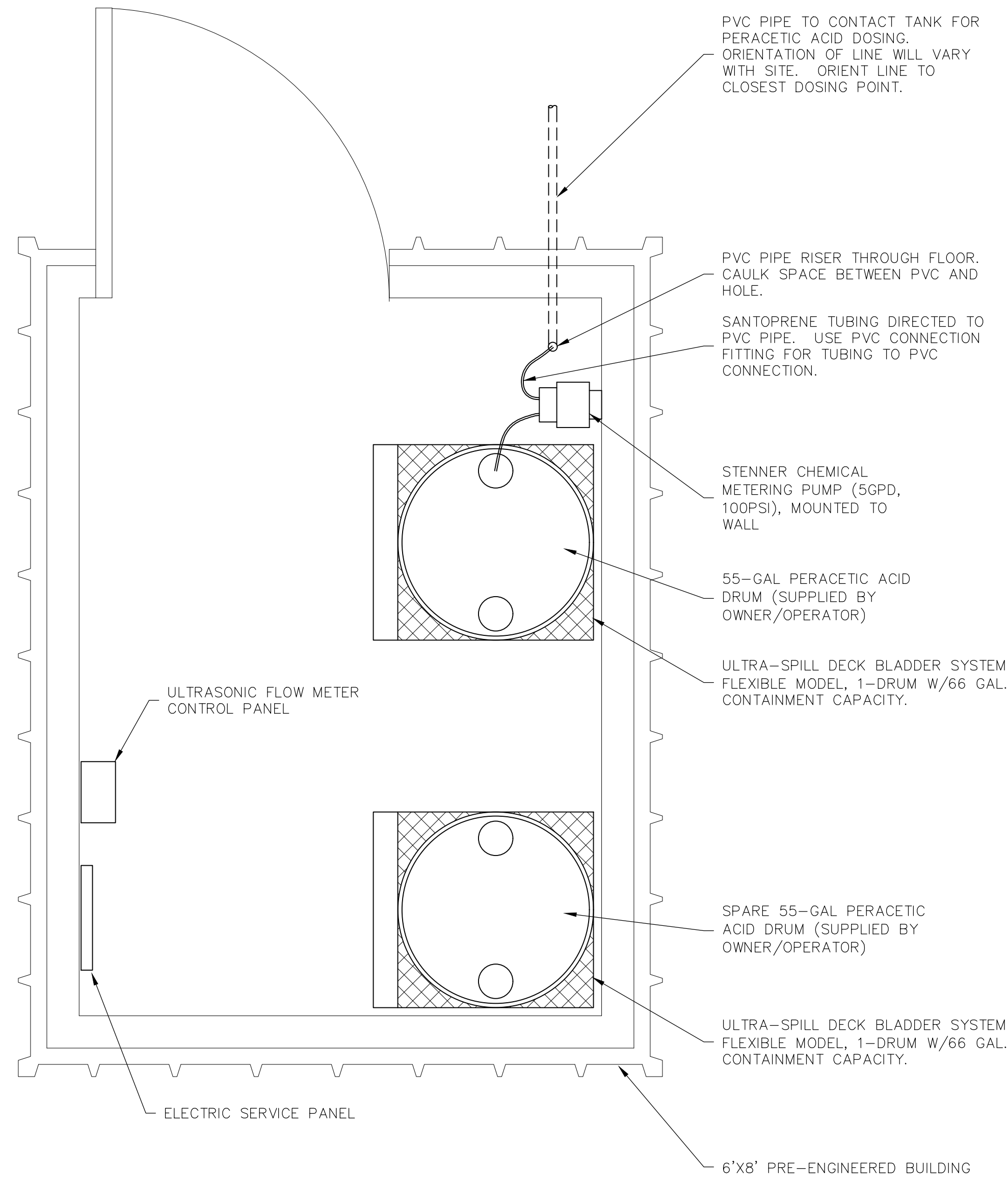
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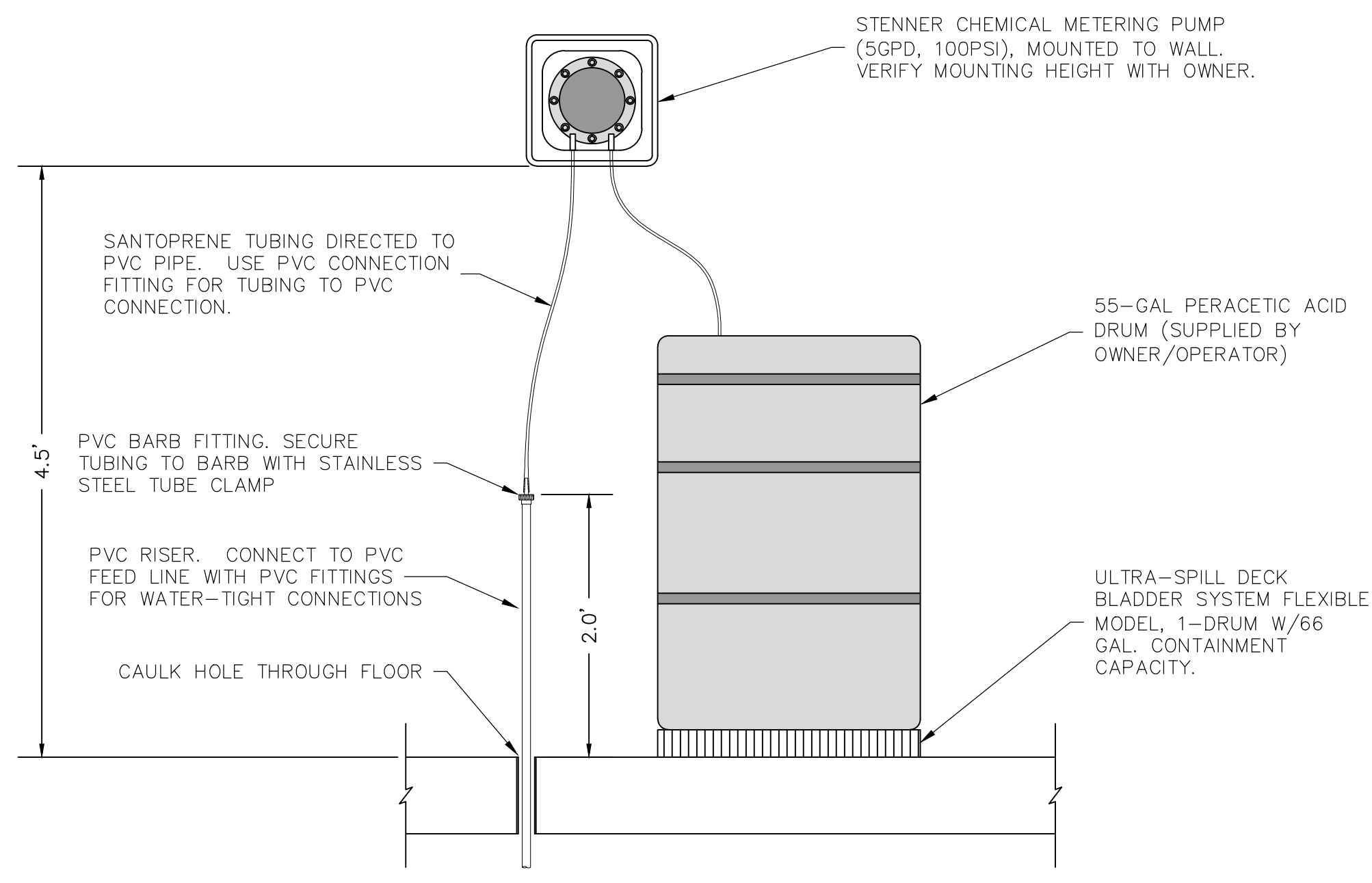


HENDERSON COUNTY SCHOOLS
 WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
 HENDERSON, KY
 PROPOSED DEVELOPMENT PLAN - CAIRO ELEMENTARY

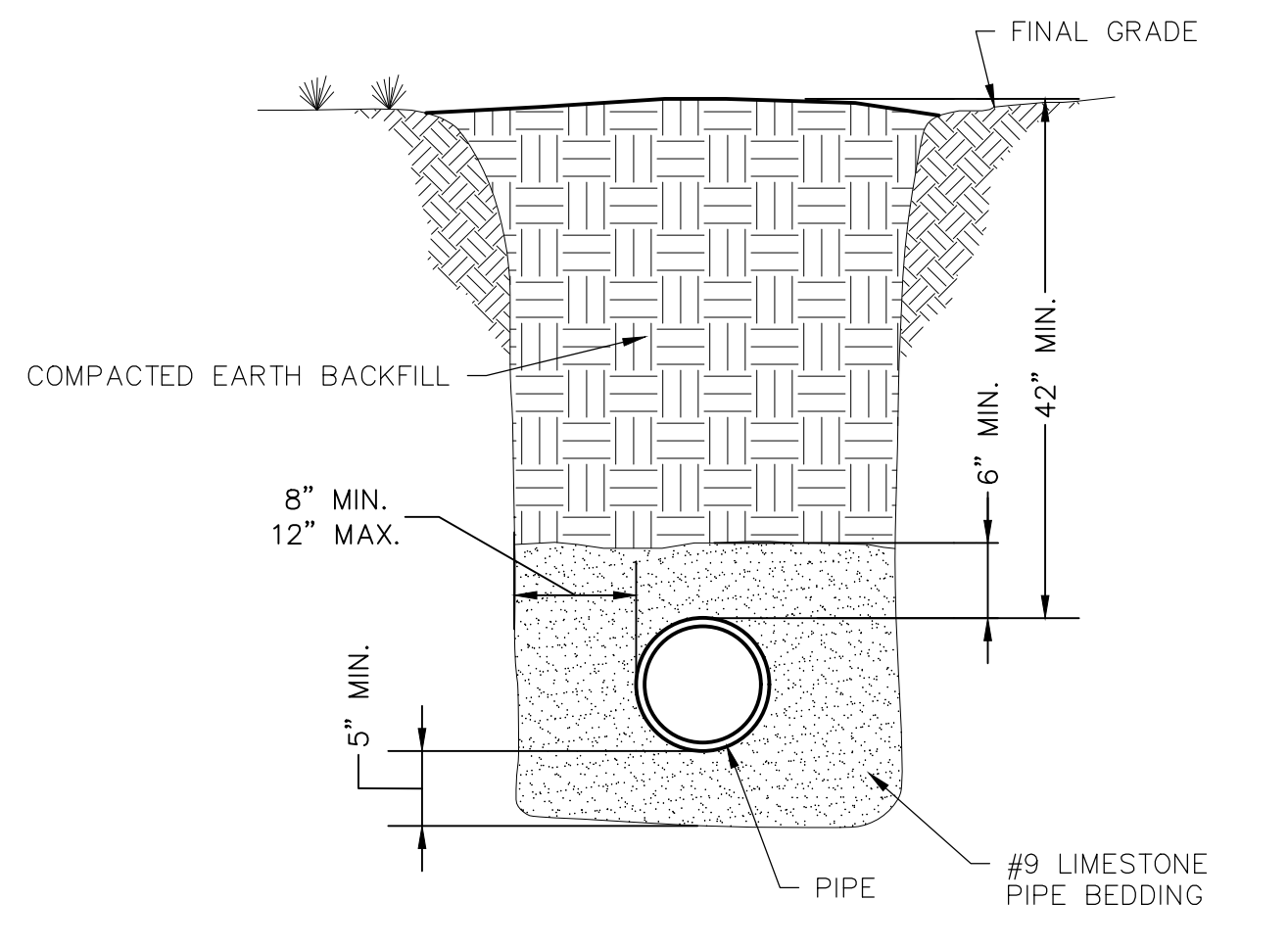
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 OF 4



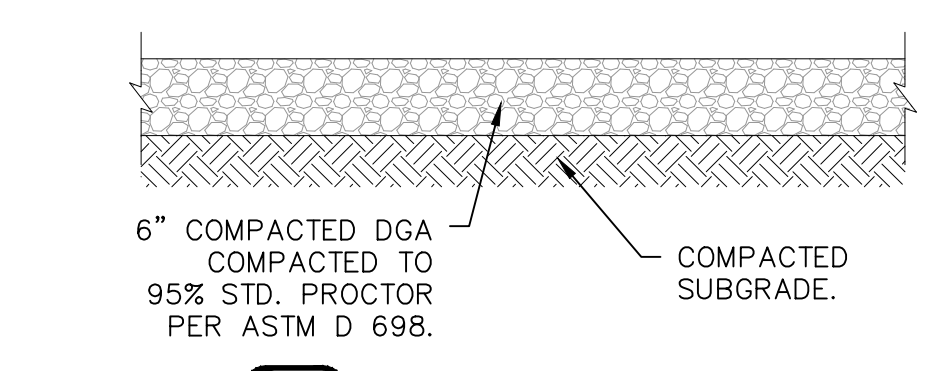
1 PERACETIC ACID FEED BUILDING DETAIL
SCALE: 1"=1'



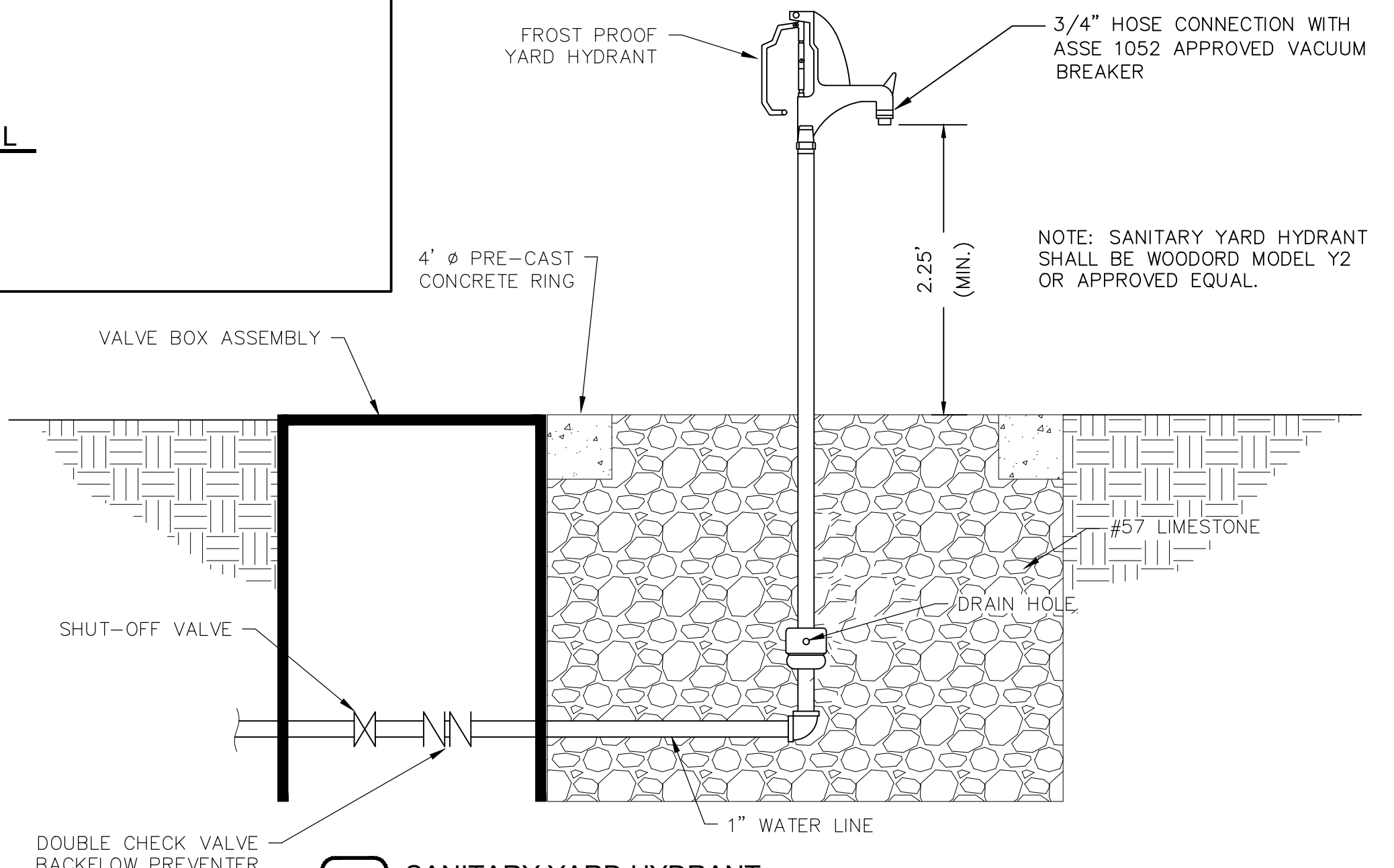
2 PERACETIC ACID DOSING DETAIL
SCALE: N.T.S.



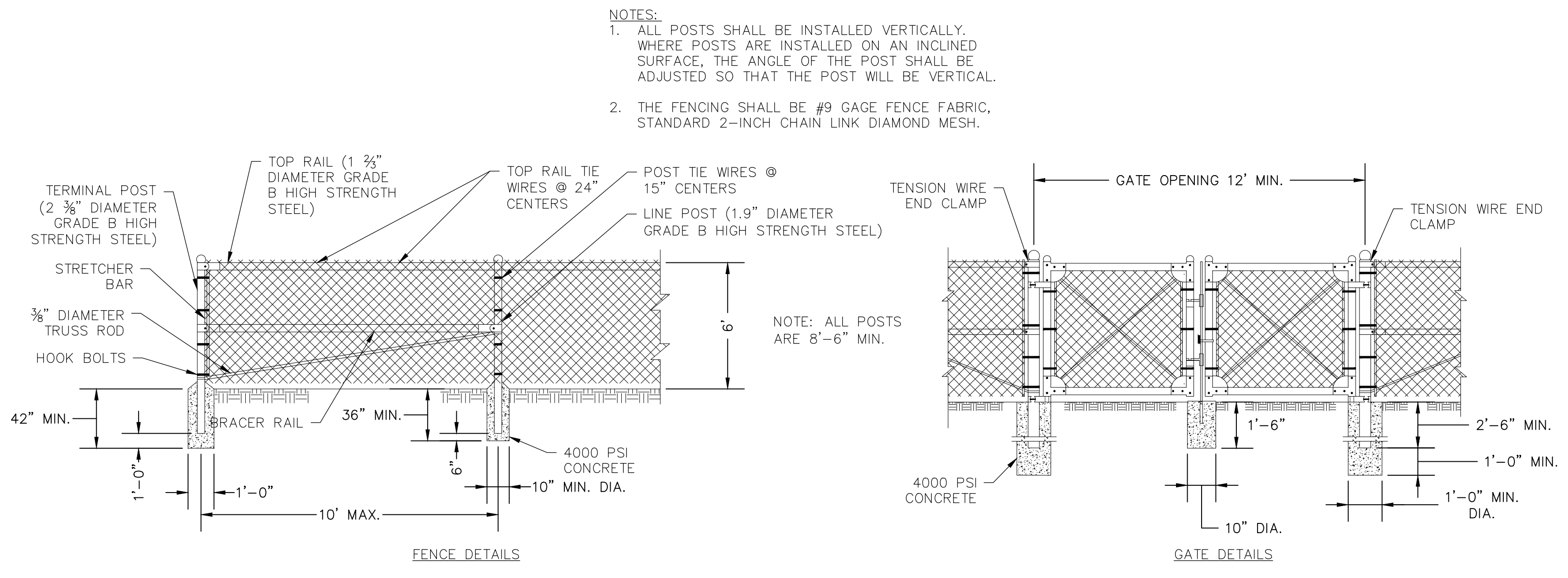
3 UNIMPROVED SURFACE TRENCH SECTION
SCALE: N.T.S.



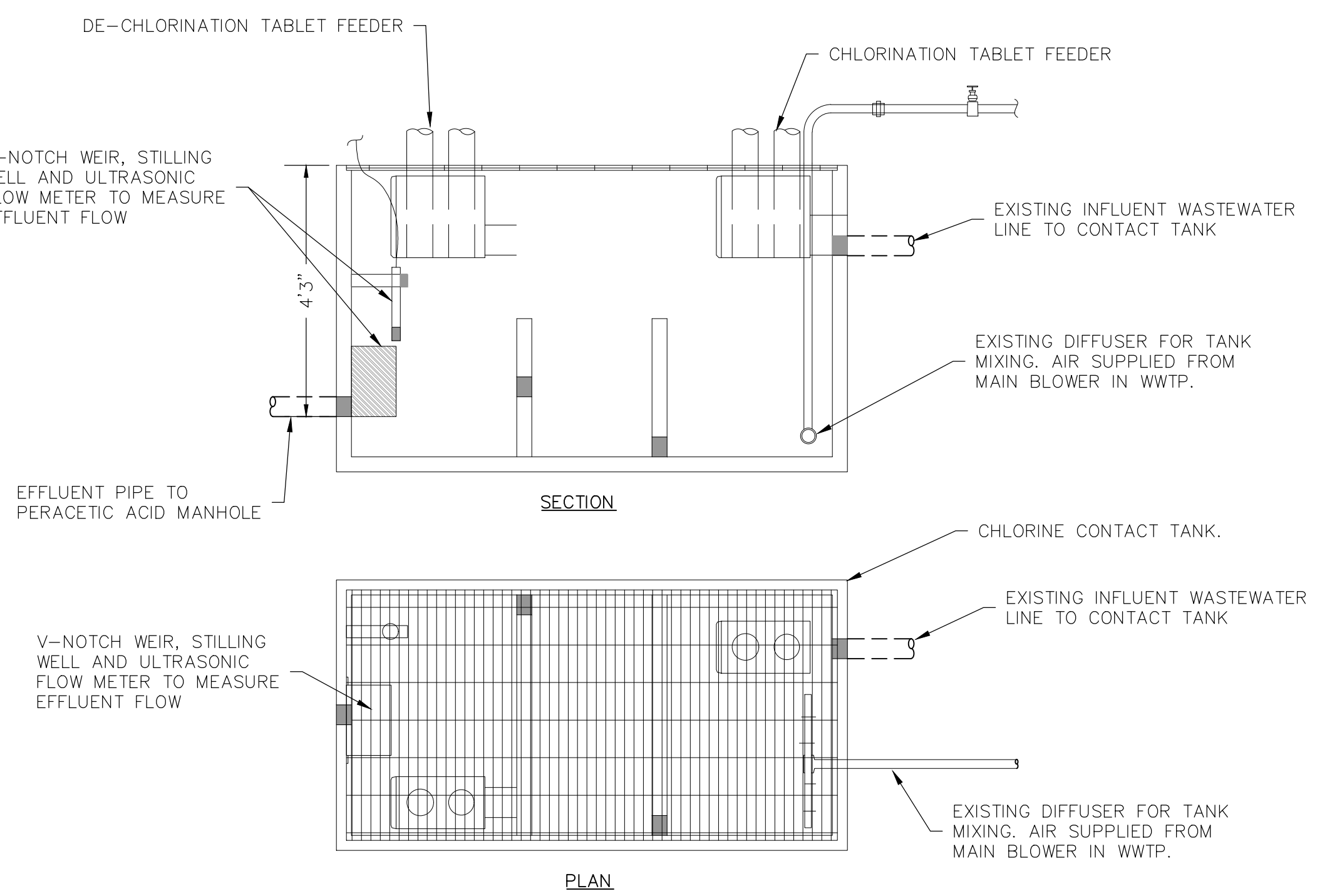
4 GRAVEL DRIVE
SCALE: N.T.S.



7 SANITARY YARD HYDRANT
SCALE: N.T.S.



6 CHAIN LINK FENCE
SCALE: N.T.S.



5 CHLORINE CONTACT TANK DETAIL
SCALE: N.T.S.

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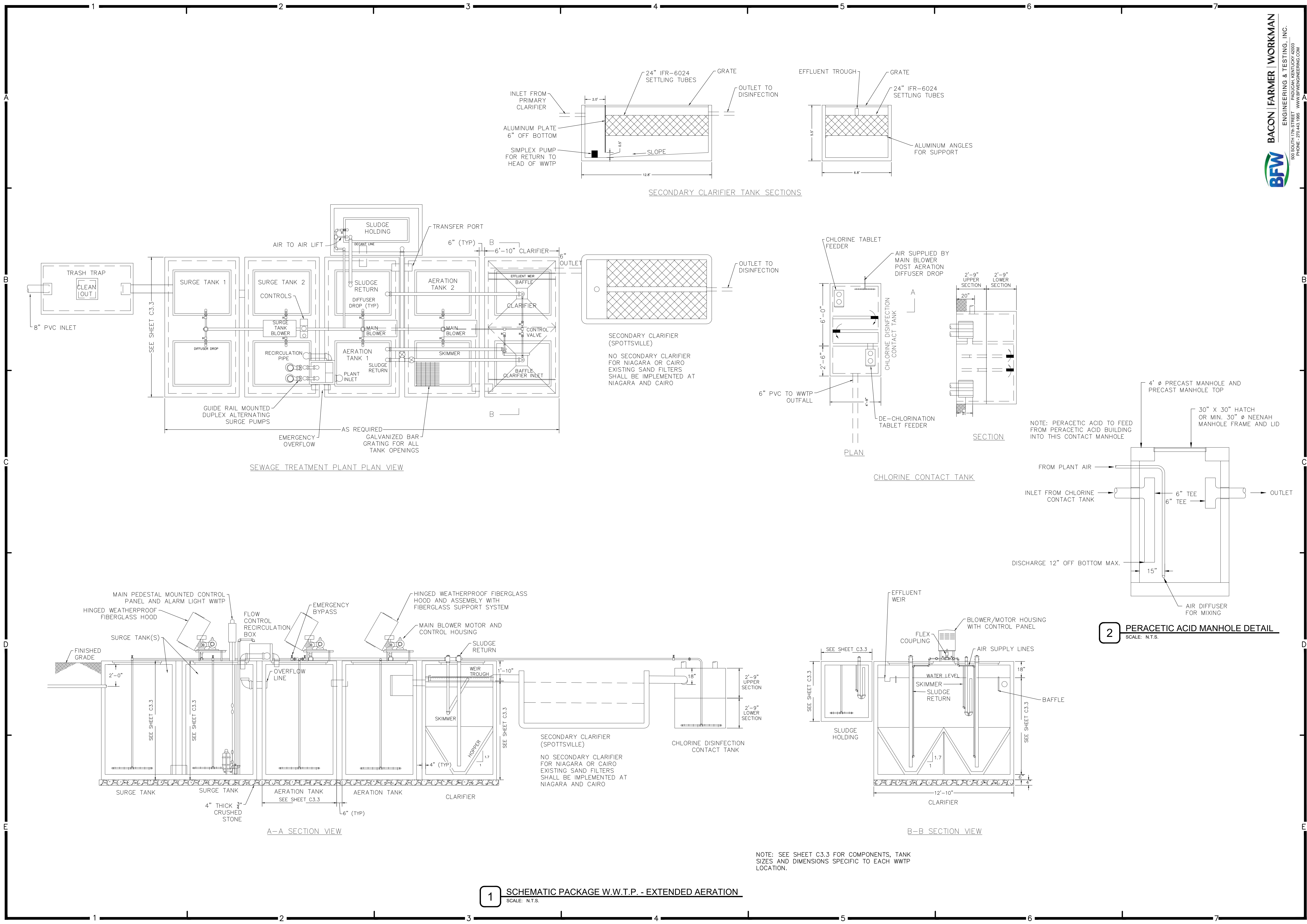
STATE OF KENTUCKY
KENNETH D. BACON
LICENSED PROFESSIONAL ENGINEER
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HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CARO, AND NIAGARA
HENDERSON, KY
DETAILS

SHEET NUMBER

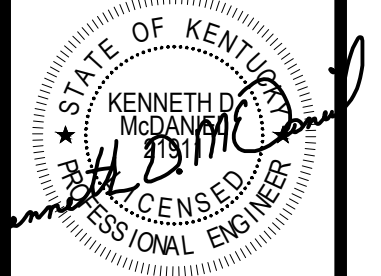
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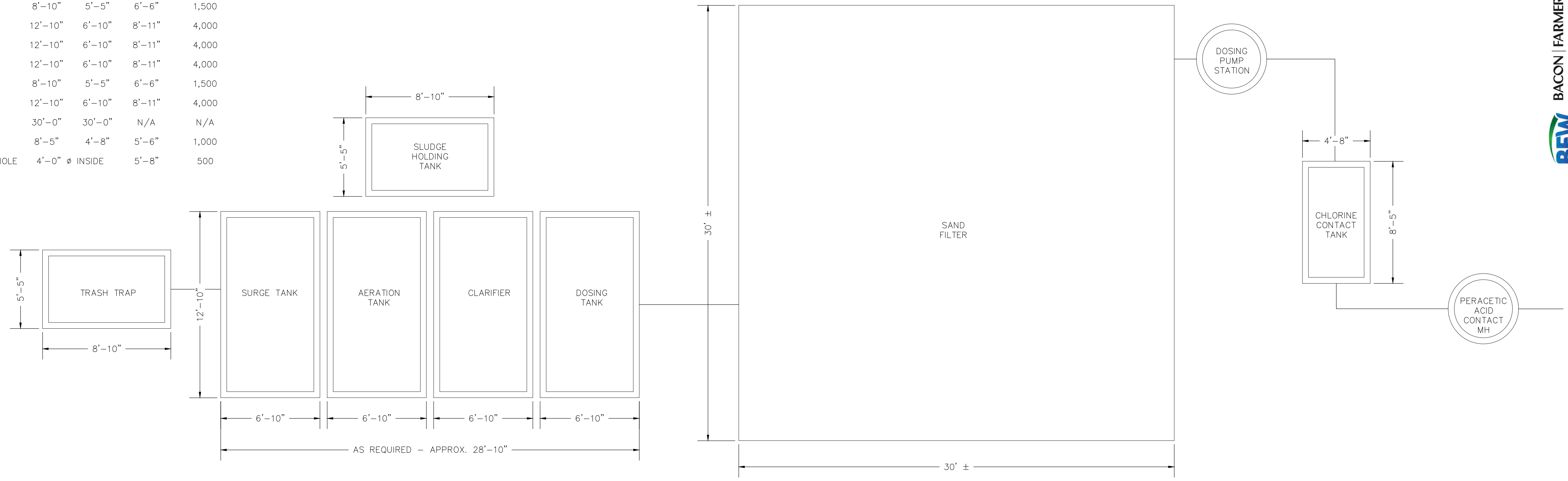


05/07/2024

HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
HENDERSON, KY
SCHEMATIC PACKAGE W.W.T.P. - EXTENDED AERATION

NIAGARA AND CAIRO ELEMENTARY

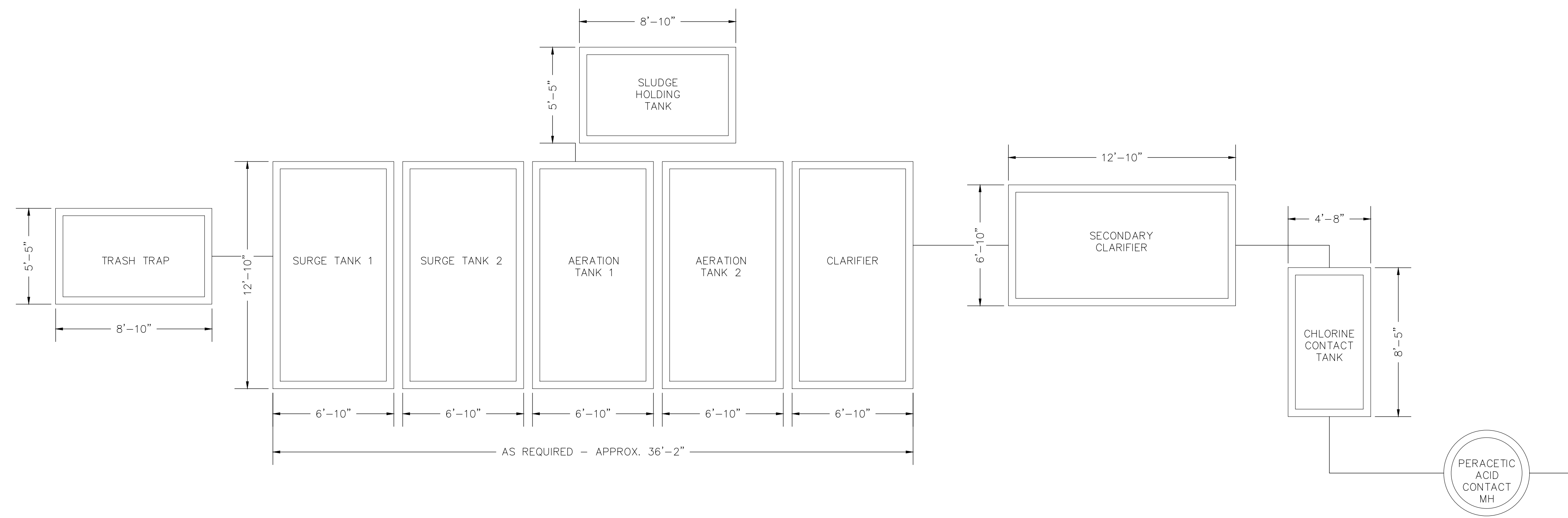
TANK DESCRIPTION	LENGTH	WIDTH	DEPTH	VOLUME (GAL.)
TRASH TRAP	8'-10"	5'-5"	6'-6"	1,500
SURGE TANK 1	12'-10"	6'-10"	8'-11"	4,000
AERATION TANK 1	12'-10"	6'-10"	8'-11"	4,000
CLARIFIER	12'-10"	6'-10"	8'-11"	4,000
SLUDGE HOLDING TANK	8'-10"	5'-5"	6'-6"	1,500
DOSING TANK	12'-10"	6'-10"	8'-11"	4,000
SAND FILTER	30'-0"	30'-0"	N/A	N/A
CHLORINE CONTACT TANK	8'-5"	4'-8"	5'-6"	1,000
PERACETIC ACID CONTACT MANHOLE	4'-0" Ø INSIDE		5'-8"	500



2 NIAGARA AND CAIRO ELEMENTARY SCHOOLS W.W.T.P. - TANK SIZES AND DIMENSIONS
SCALE: N.T.S.

SPOTTSVILLE ELEMENTARY

TANK DESCRIPTION	LENGTH	WIDTH	DEPTH	VOLUME (GAL.)
TRASH TRAP	8'-10"	5'-5"	6'-6"	1,500
SURGE TANK 1	12'-10"	6'-10"	11'-5"	5,400
SURGE TANK 2	12'-10"	6'-10"	11'-5"	5,400
AERATION TANK 1	12'-10"	6'-10"	11'-5"	5,400
AERATION TANK 2	12'-10"	6'-10"	11'-5"	5,400
CLARIFIER	12'-10"	6'-10"	11'-5"	5,400
SLUDGE HOLDING TANK	8'-10"	5'-5"	6'-6"	1,500
SECONDARY CLARIFIER	12'-10"	6'-10"	5'-6"	4,000
CHLORINE CONTACT TANK	8'-5"	4'-8"	5'-6"	1,000
PERACETIC ACID CONTACT MANHOLE	4'-0" Ø INSIDE		5'-8"	500



1 SPOTTSVILLE ELEMENTARY SCHOOL W.W.T.P. - TANK SIZES AND DIMENSIONS
SCALE: N.T.S.

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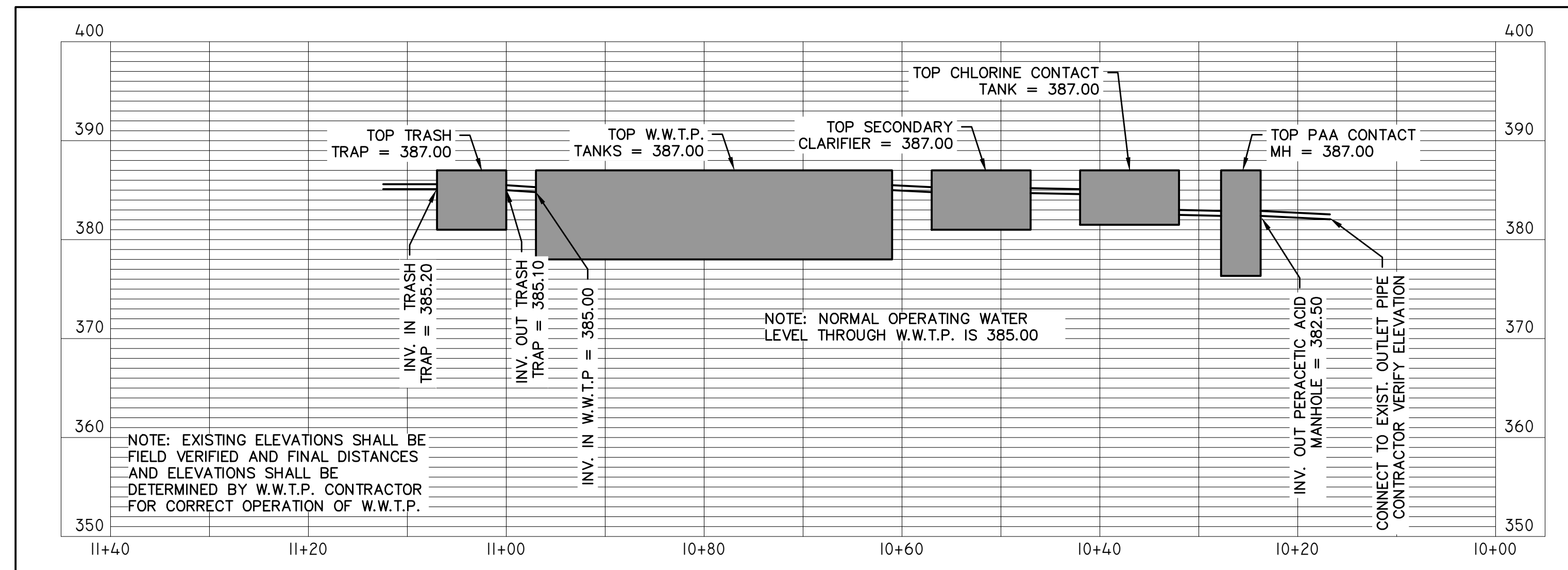
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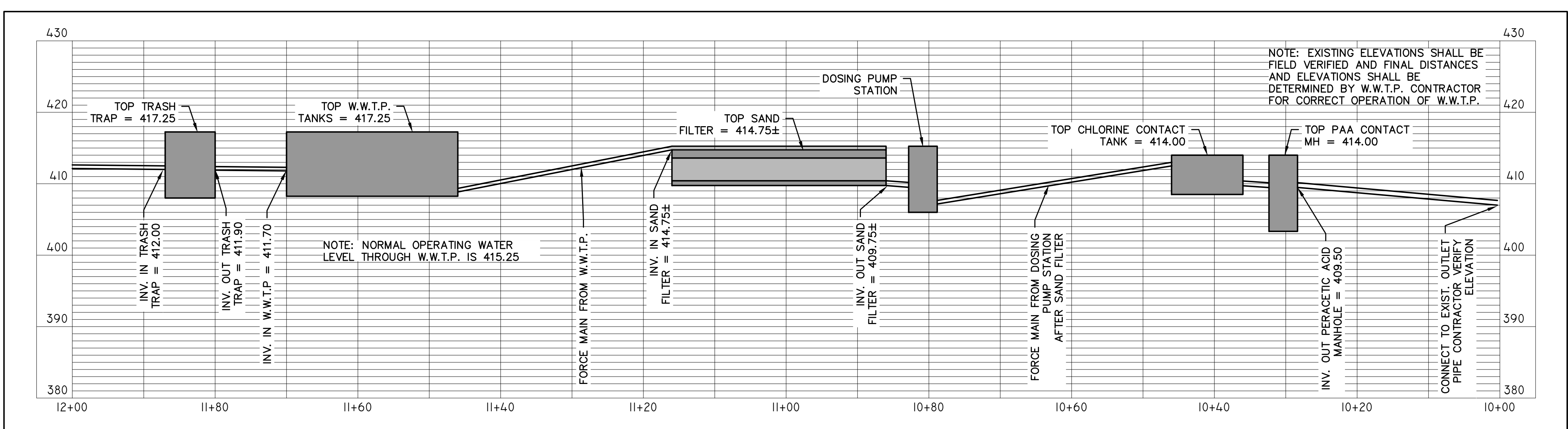
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05/07/2024

HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
HENDERSON, KY
W.W.T.P. TANK SIZES AND DIMENSIONS

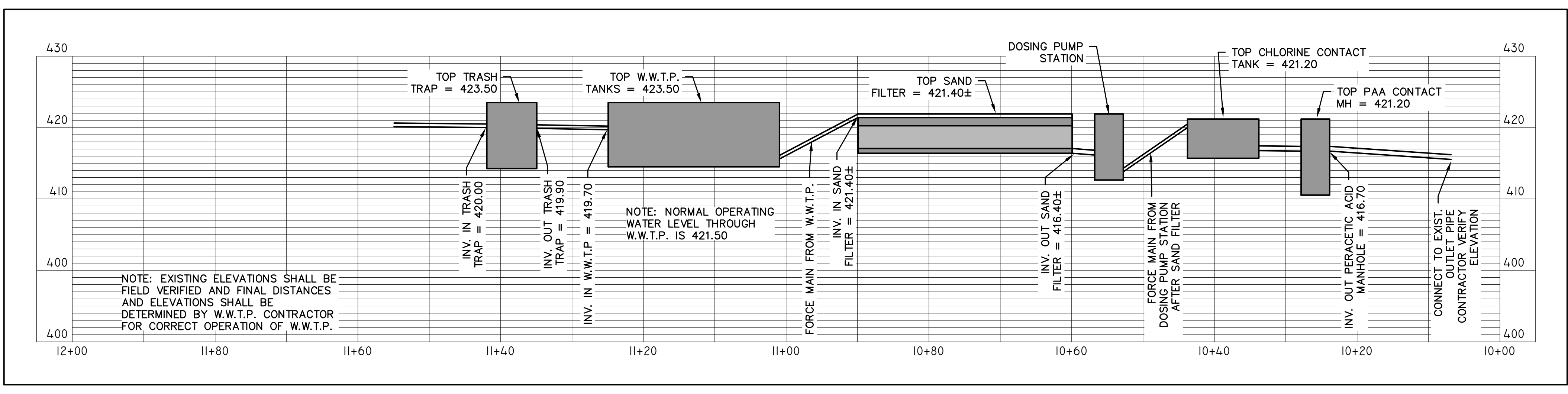
SHEET NUMBER
C3.3
OF #



1 SCHEMATIC PROFILE THROUGH W.W.T.P. - SPOTTSVILLE ELEMENTARY SCHOOL
SCALE: 1"=10'



2 SCHEMATIC PROFILE THROUGH W.W.T.P. - NIAGARA ELEMENTARY SCHOOL
SCALE: 1"=10'

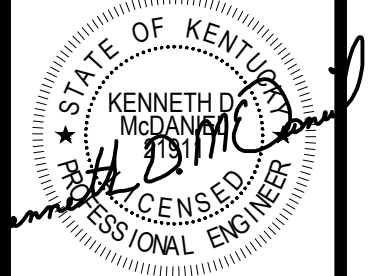


3 SCHEMATIC PROFILE THROUGH W.W.T.P. - CAIRO ELEMENTARY SCHOOL
SCALE: 1"=10'

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DIMENSIONS AND CONDITIONS AT THE SITE.

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HENDERSON COUNTY SCHOOLS
WASTEWATER SYSTEMS - SPOTTSVILLE, CAIRO, AND NIAGARA
HENDERSON, KY
SCHEMATIC PROFILE THROUGH PACKAGE W.W.T.P.'s

SHEET NUMBER

C3.4

OF #