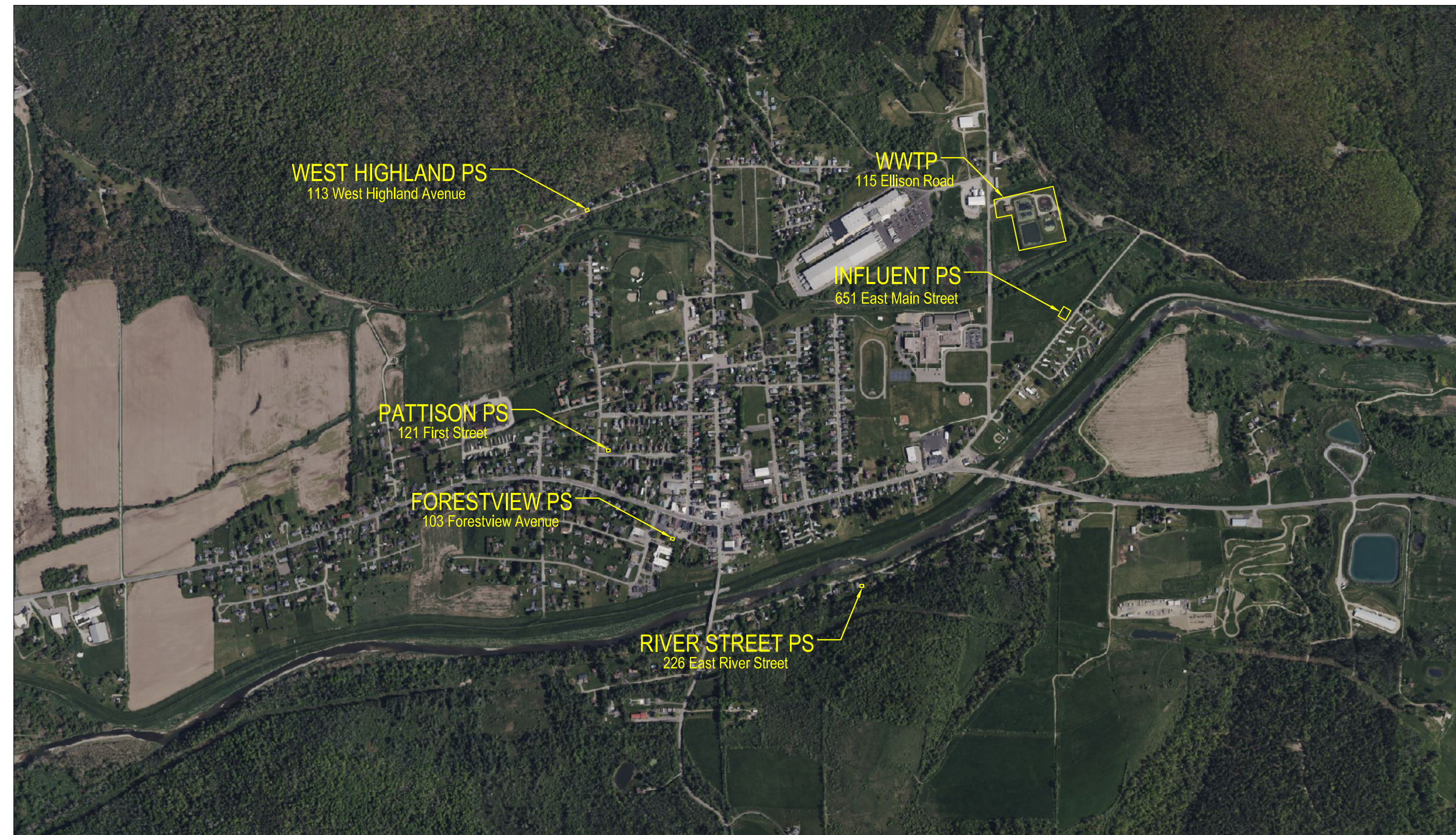
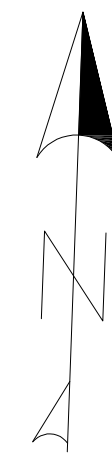


WASTEWATER TREATMENT FACILITIES CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PENNSYLVANIA 16920



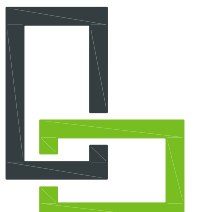
LOCATION MAP
N.T.S.

ELKLAND BOROUGH AUTHORITY

105 PARKHURST STREET
ELKLAND, PENNSYLVANIA 16920

LABELLA PROJECT NO. 2242861
NOVEMBER 2025



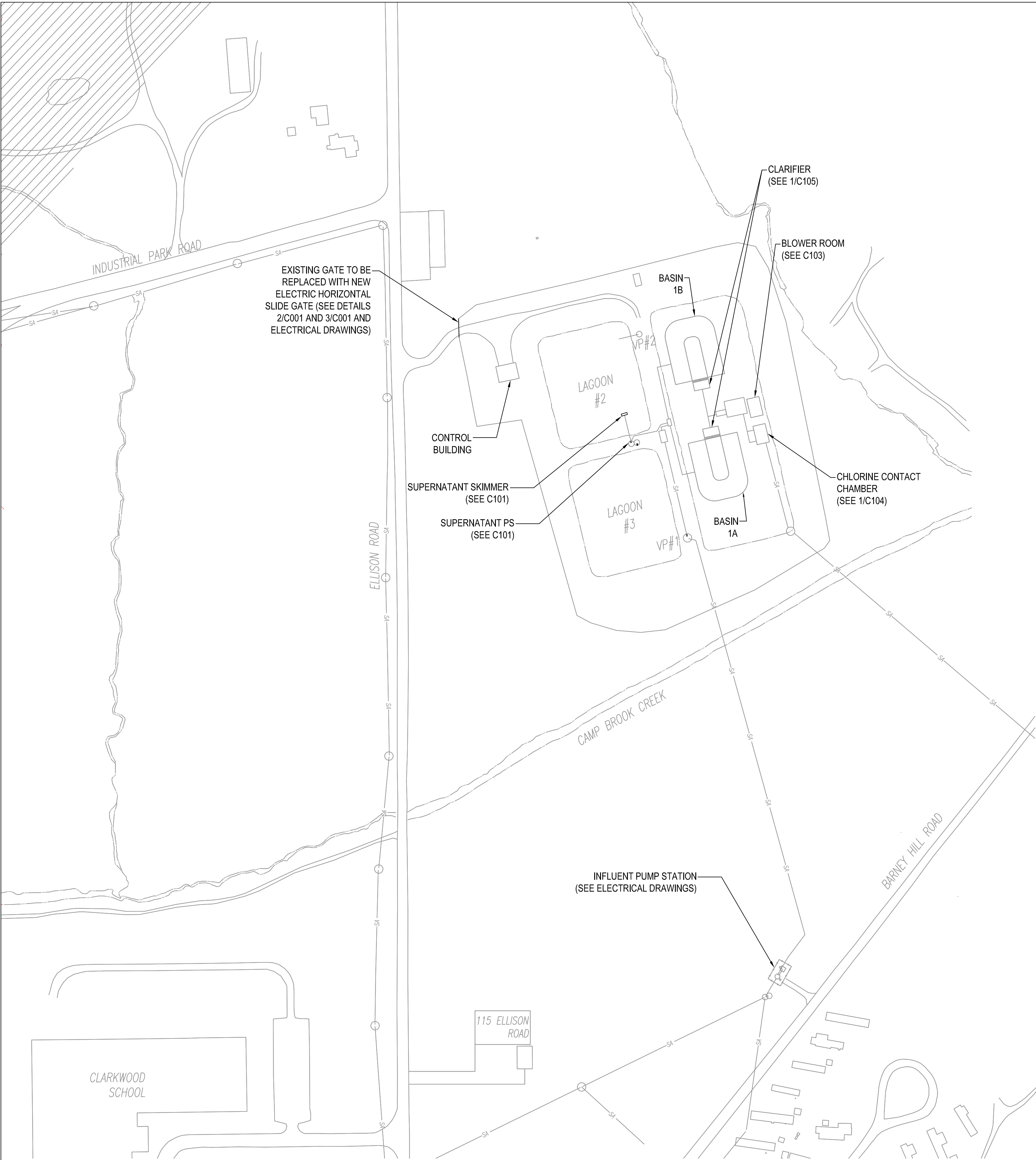
 **LaBella**
Powered by partnership.
300 State Street, Suite 201
Rochester, NY 14614
585-454-6110
labellapc.com

ISSUED FOR BID
NOVEMBER 2025

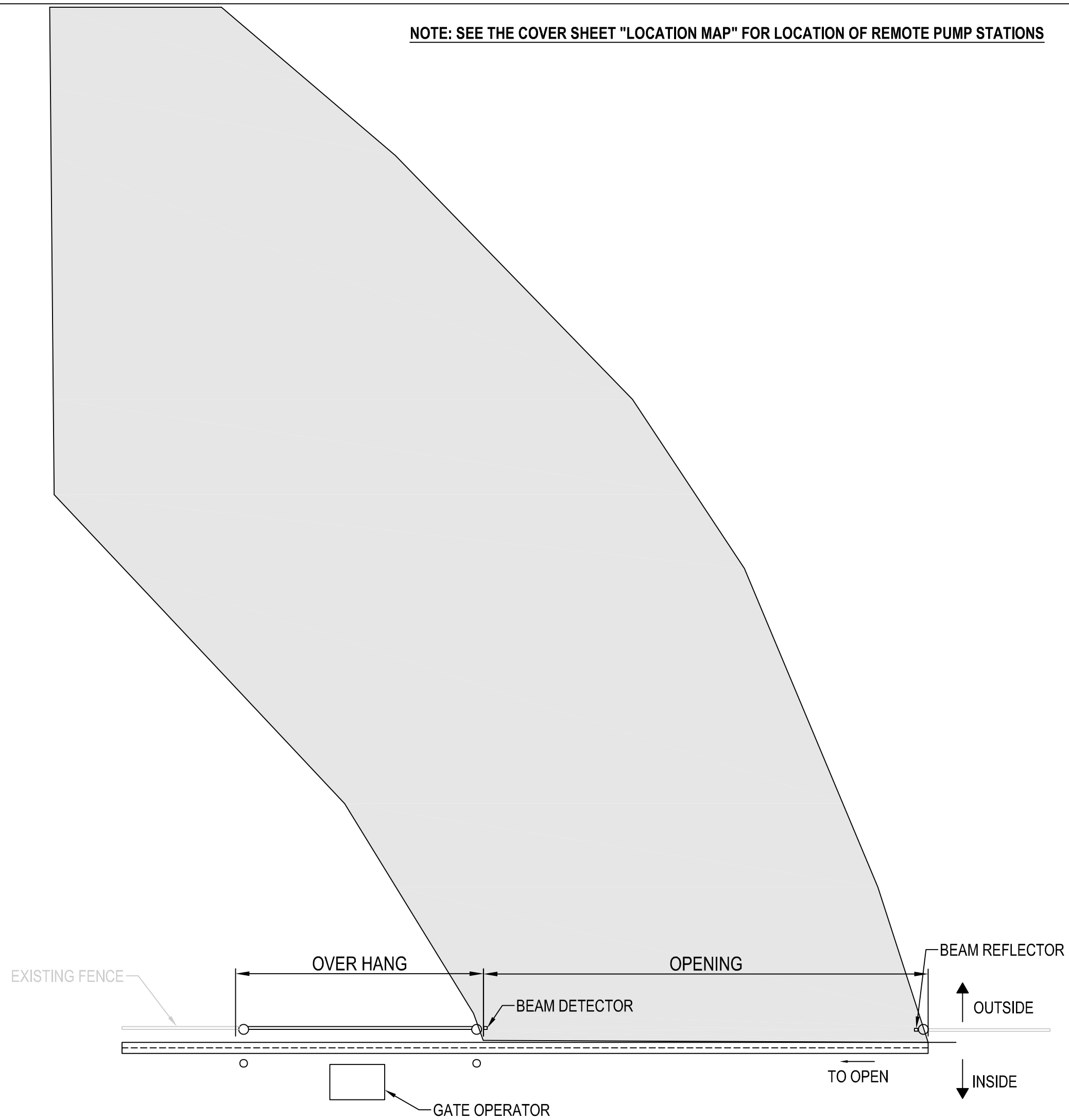
ELKLAND BOROUGH AUTHORITY
LABELLA PROJECT NO. 2242861

WWTP CONSENT ORDER IMPROVEMENTS
115 ELLISON ROAD ELKLAND PA 16920

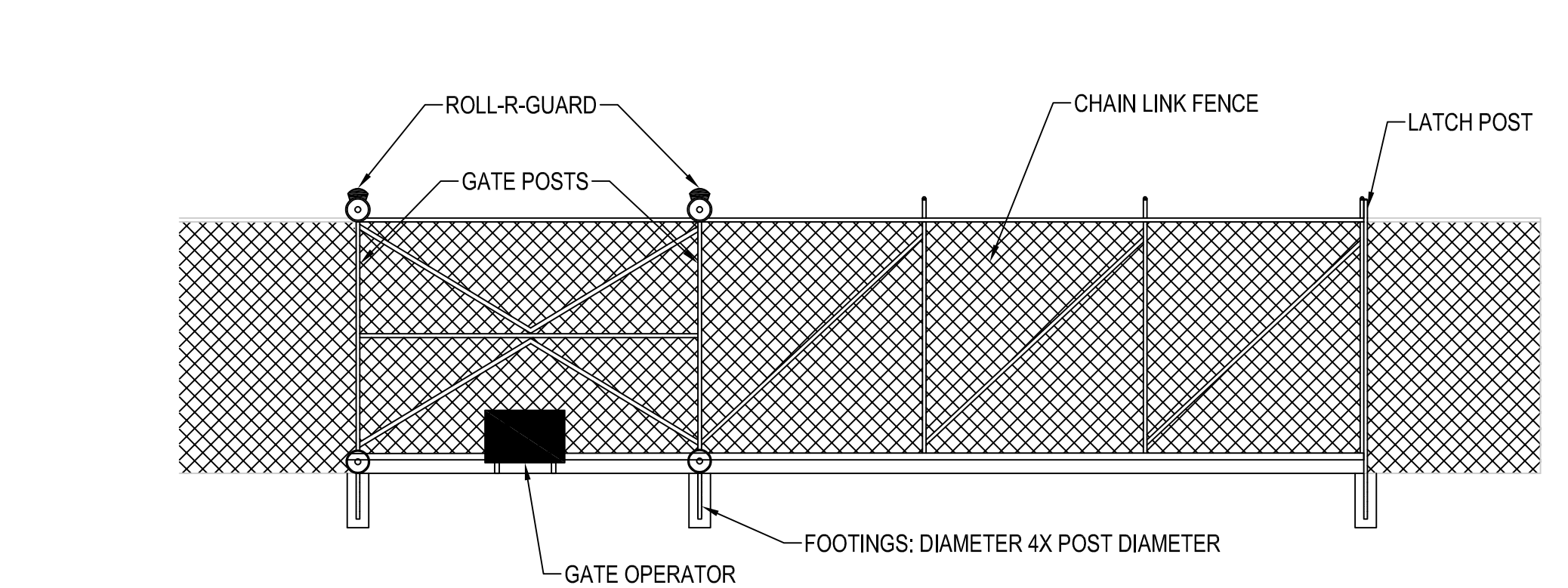
11/19/2025 2:12:10 PM
B:\GLOBAL Projects\Elkland Borough\2242861 - WWTP Consent Order Improvements\06_Drawings\Process\C001_GENERAL PLAN.dwg



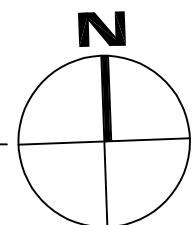
1
C001
GENERAL PLAN
SCALE: 1" = 100'



3
C001
CANTILEVER SLIDE GATE PLAN VIEW
N.T.S.



2
C001
CANTILEVER SLIDE GATE DETAIL
N.T.S.



NOTE: SEE THE COVER SHEET "LOCATION MAP" FOR LOCATION OF REMOTE PUMP STATIONS



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

**WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS**

115 ELLISON ROAD
ELKLAND, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: TK

REVIEWED BY: BBU

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

**GENERAL
PLAN**

DRAWING NUMBER:

C001

11/19/2025 9:56:59 AM B:\GLOBAL\Projects\Elkland Borough\2242861 - WWTP Consent Order Improvements\06_Drawings\Process\C002_GENERAL NOTES.dwg

GENERAL NOTES

1. WATER TREATMENT PLANT (WTP) SHALL REMAIN IN OPERATION AT ALL TIMES. CONTRACTOR SHALL COMPLETE THE WORK SHOWN WITHOUT DISRUPTING WTP OPERATION. BYPASS PUMPING SHALL BE PROVIDED FOR STAGES OF THIS WORK AS NECESSARY AND ACCORDING TO THE SEQUENCE OF WORK IN SECTION 011000.
2. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE TO LOCATE UTILITIES OUTSIDE THE RIGHT-OF-WAY INCLUDING PRIVATE ROADS.
3. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES, NECESSARY TO PERFORM THE WORK CONTAINED IN THIS CONTRACT.
5. THE SIZES AND MATERIAL OF CONSTRUCTION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS TO REMAIN ARE REPUTED. THE CONTRACTOR SHALL VERIFY SIZES OF ALL UTILITIES WHERE CONNECTIONS TO SAID EXISTING UTILITIES ARE REQUIRED. EXCAVATION TO VERIFY THESE UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AMENITIES NOT DESIGNATED FOR REMOVAL.
7. UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING FROM DAMAGE ALL TREES, SHRUBS AND PLANTS IN THE VICINITY OF THE PROPOSED WORK.
8. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
9. ANY SITE AMENITY, UTILITY, STREET APPURTENANCE, OR OTHER ITEM WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

SURVEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MARKERS AND RIGHT-OF-WAY MARKERS IN THE AREA OF CONSTRUCTION.
3. ANY IRON PINS, MONUMENTS OR OTHER ITEMS DEFINING PROPERTY LINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET BY A NYS LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
4. HORIZONTAL DATUM BASED ON NORTH AMERICAN DATUM 1983 (NAD83) - NEW YORK STATE PLANE WEST.
5. VERTICAL BASED OFF ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD-88).
6. A SURVEY HAS BEEN COMPLETED BY KHEOPS ENGINEERING. THE EXISTING CONDITIONS SHOWN ON THESE PLANS ARE BASED ON TOPOGRAPHIC SURVEY PREPARED BY KHEOPS SURVEY DATED 09/07/2022.
7. PROPERTY LINES ARE FROM GIS DATA DATED JULY 2021.
8. RIGHT OF WAY LINES ARE FROM RECORD.

DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFE NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
3. WORK ASSOCIATED WITH THIS CONTRACT WILL OCCUR AT AN ACTIVE AND FUNCTIONAL FACILITY. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OPERATIONS OF THE FACILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE A SAFE WORK SITE AND TO PROTECT THE PUBLIC, VISITORS AND EMPLOYEES FROM HARM AS A RESULT OF HIS CONSTRUCTION ACTIVITIES.
4. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, STRUCTURES, AND APPURTENANCES IN THE PATH OF AND ADJACENT TO THE PROPOSED WORK.
5. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT AND NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) AS NECESSARY AND SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO BEGINNING WORK. COPIES OF ANY REQUIRED PERMITS SHALL BE PROVIDED TO THE OWNER PRIOR TO BEGINNING THE WORK.
6. CONTRACTOR SHALL REMOVE FROM SITE, MATERIALS NOT INDICATED TO BE SALVAGED INCLUDING ALL DEBRIS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
7. ALL TREES, SHRUBS AND PLANTS DESIGNATED TO REMAIN AND DISTURBED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED IN-KIND AS DIRECTED BY THE ARCHITECT/ENGINEER AND/OR OWNER'S DESIGNATED REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO THE EXISTING BUILDINGS FOR THE DURATION OF THE CONTRACT.
9. WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTORS WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE, AT NO COST TO THE OWNER. ALL REPAIRS AND/OR REPLACEMENTS WILL BE SUBJECT TO OWNERS APPROVAL.
10. COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREAS WITH OWNER.

SITE NOTES

1. WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
2. ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER IN WRITING.
4. ANY PROOF-ROLLING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.

UTILITY NOTES

1. WATERLINES/WATERMAINS TO BE INSTALLED IN ACCORDANCE WITH THE "RECOMMENDED STANDARDS FOR WATER WORKS" BY THE GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS, DATED 2022 (OR ANY SUBSEQUENT REVISION).
2. WATER MAINS CROSSING SANITARY OR STORM SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER WITH PREFERENCE TO THE WATER MAIN ABOVE THE SEWER.
3. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. THERE SHALL BE AT LEAST A 10' HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWERS.
5. WHERE WATER MAINS CAN NOT BE INSTALLED IN COMPLIANCE WITH THE ABOVE A CASING PIPE SHALL BE USED.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
2. UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION. THE AREA OF DISTURBANCE SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED.
4. REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ENGINEER. THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE BID PRICE.
5. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
6. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM/SANITARY SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE. NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM/SANITARY SEWERS, DITCHES, RIVERS, OR WATER COURSES.
7. ALL EXCAVATED OR IMPORTED EARTHEN STOCKPILES SHALL BE SUITABLY STABILIZED AND PROTECTED BY SILT FENCE SO THAT IT CANNOT REASONABLY ENTER ANY WATER BODY, OR STORM OR SANITARY SEWER.
8. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ENGINEER MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS.
10. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
11. CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
12. ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE STONED INLET PROTECTION AROUND THEM AND GEOTEXTILE FABRIC OVER THE GRATE TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.
13. TILL ALL COMPACTED SOILS LOCATED IN LAWN AREAS TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL PRIOR TO SEEDING.

DRAWING INDEX

C000 COVER SHEET

C001 GENERAL PLAN

C002 GENERAL NOTES

C101 ON-SITE PUMP STATIONS

C102 AERATION BASINS

C103 BLOWER ROOM

C104 TRC & TSS MONITORING

C105 SAMPLING CATWALK

E001 ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

E051 SECURITY GATE ENLARGED PLAN

E052 INFLUENT PUMP STATION - SITE PLAN

E101 CONTROL BUILDING-ELECTRICAL

E102 BLOWER BUILDING-ELECTRICAL

E500 ELECTRICAL DETAILS

E501 ELECTRICAL DETAILS

E502 INFLUENT PUMP STATION - AREA CLASSIFICATION

E503 PROCESS CONTROL BLOCK DIAGRAM

E504 INFLUENT PUMP STATION DETAILS

E700 ONE-LINE DIAGRAM - NEW WORK

ED700 ONE-LINE DIAGRAM - DEMOLITION

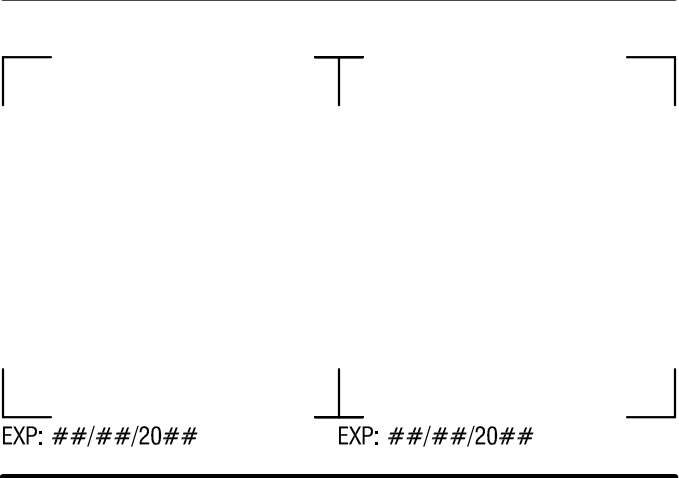
LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		PROJECT BENCHMARK / CONTROL POINTS			END SECTION
		WETLAND			CATCH BASIN
		WETLAND BUFFER			YARD DRAIN
		BORING LOCATIONS			INLET MANHOLE
		OBJECT REMOVAL			MANHOLE (SOLID COVER)
		OBJECT REMOVAL			INLET DRYWELL
		OBJECT REMOVAL			CLEAN OUT
		UTILITY REMOVAL OR ABANDON IN PLACE AND FILL WITH FLOWABLE FILL (SEE UTILITY PLANS)			DOWN SPOUT
		FENCE REMOVAL			HYDRANT
		SAWCUT			VALVE
		CHAIN LINK FENCE			SAMPLING TAP
		GUIDE RAIL			FLOW ARROW
		TREE/VEGETATION LIMIT			OVERHEAD ELECTRIC
		BUILDING/STRUCTURE			POWER LINE
		PROPERTY LINE			UNDERGROUND ELECTRIC DUCT REINFORCED CONCRETE
		SETBACK LINE			UNDERGROUND ELECTRIC
		EASEMENTS			GAS LINE
		RIGHT-OF-WAY			SANITARY LINE
		RETAINING WALL			SANITARY FORCEMAIN
		BOLLARD			STORM LINE
		FLAG POLE			STORM UNDERDRAIN PIPE
		SIGN			WATER FIRE SERVICE LINE
		DECIDUOUS TREE			WATER LINE (DOMESTIC WATER)
		CONIFEROUS TREE			BACKWASH WASTE LINE
		OUTLET PROTECTION			RAW WATER LINE
		VEGETATIVE FILTER STRIP			FINISHED WATER LINE
		LIGHT POLE SINGLE			MAJOR CONTOUR
		UTILITY POLE			MINOR CONTOUR
		UTILITY POLE WITH LIGHT			ε OF DRAINAGE SWALE
		HANDHOLE			EROSION FENCE
		MANHOLE			FLOW/SLOPE DIRECTION
		TANK (BURIED)			DITCH
		GRAVEL			SILT SOCK INLET PROTECTION
		CONCRETE			SILT FENCE INLET PROTECTION
		HEAVY DUTY ASPHALT			CHECK DAM
					STABILIZED CONSTRUCTION ENTRANCE



300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2025 LaBella Associates



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PA 16920

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER:	2242861
DRAWN BY:	TK
REVIEWED BY:	BBU
ISSUED FOR:	BID
DATE:	NOVEMBER 2025
DRAWING NAME:	

GENERAL NOTES

DRAWING NUMBER:

C002

T

EXP: ##/##/20##EXP: ##/##/20##

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2025 LaBella Associates



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER:	2242861
-----------------	---------

DRAWN BY:	TK
REVIEWED BY:	BBU

ISSUED FOR:	BID
-------------	-----

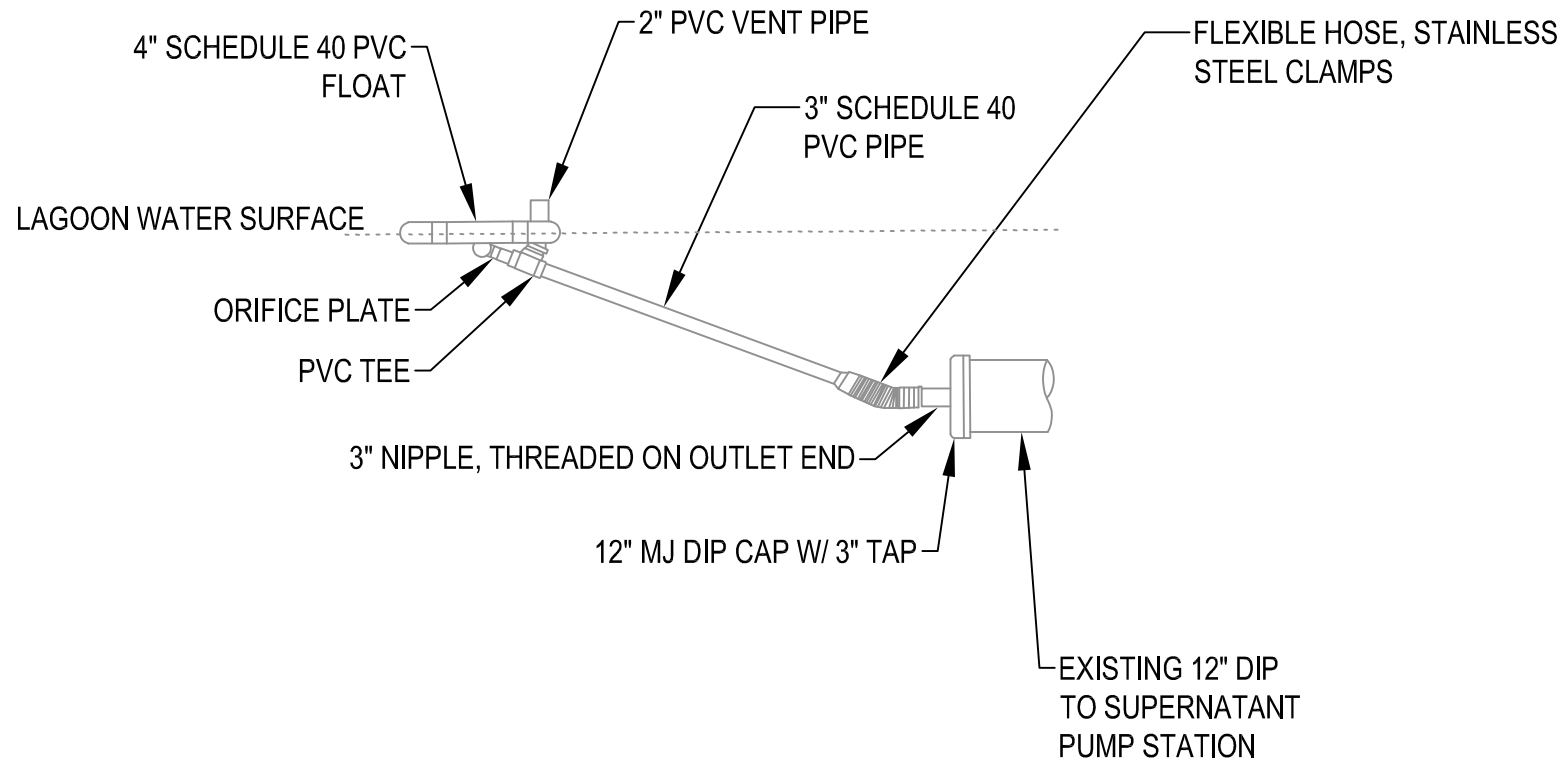
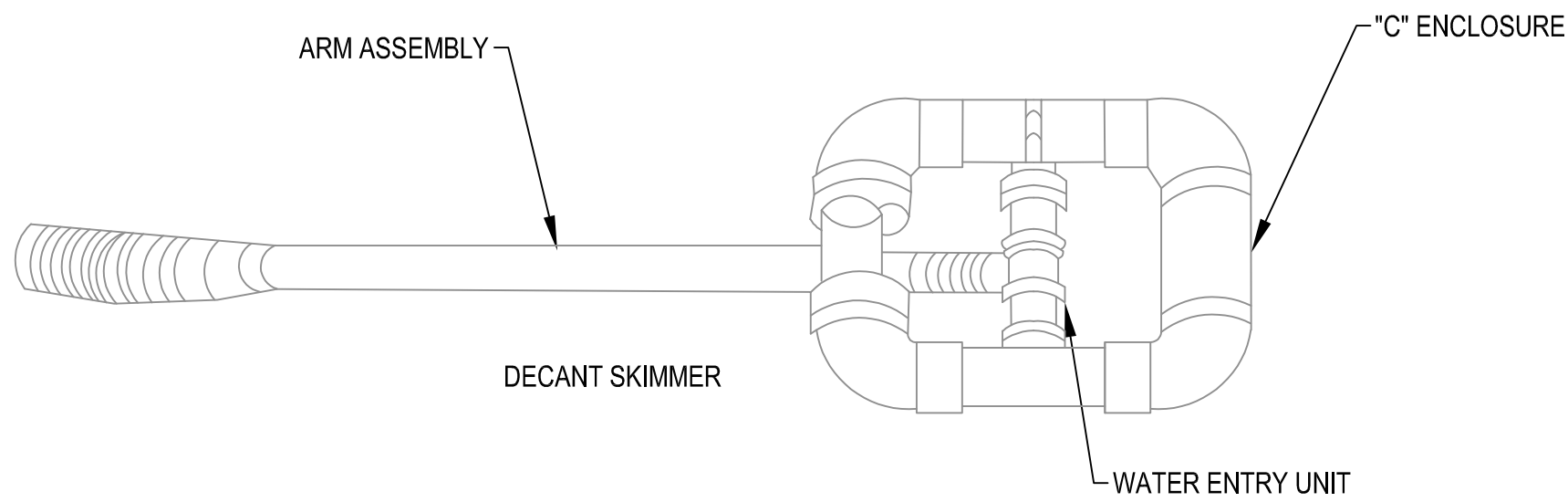
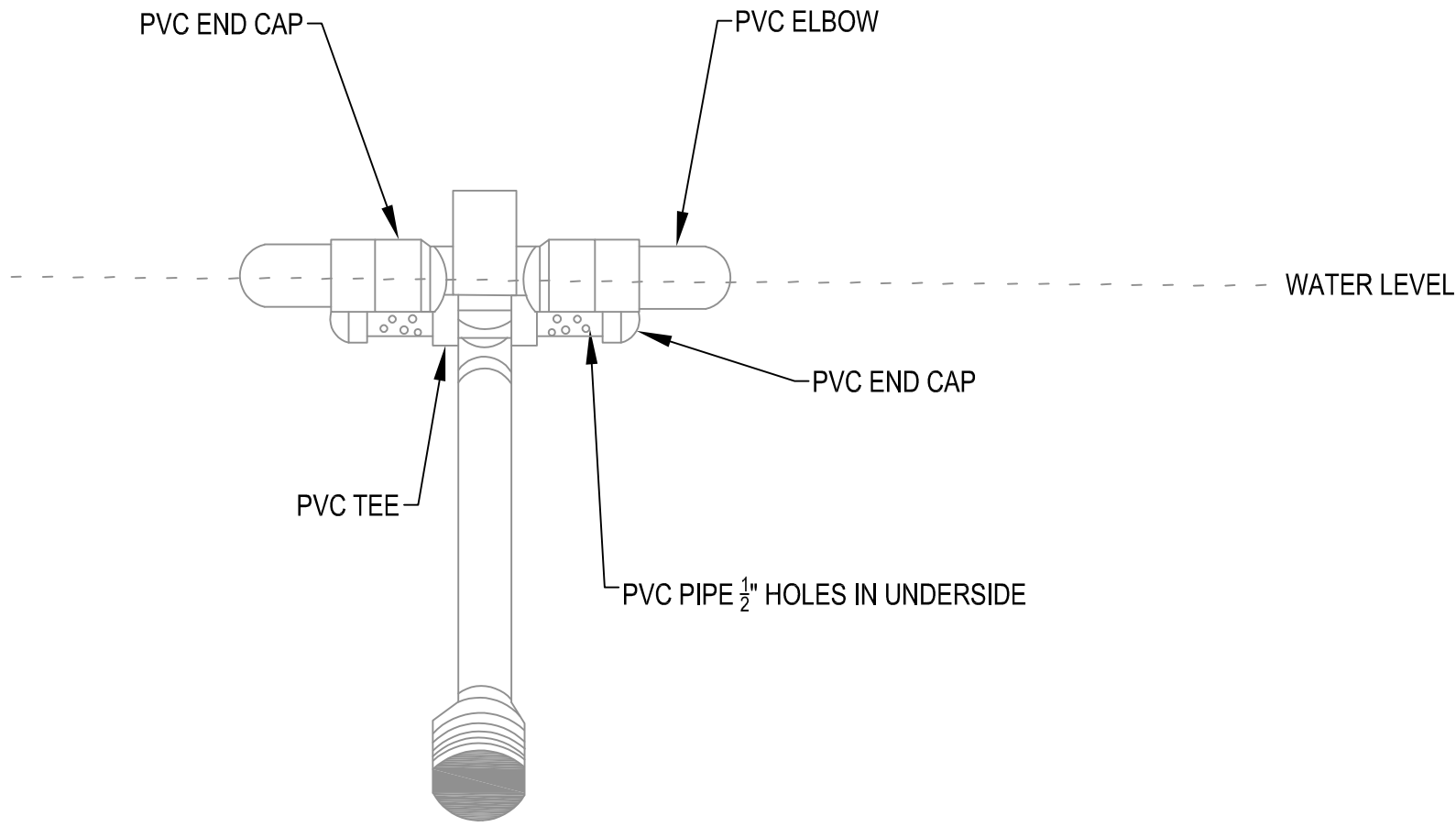
DATE:	NOVEMBER 2025
-------	---------------

DRAWING NAME:

SUPERNATANT
PUMP STATION
& SKIMMER

DRAWING NUMBER:

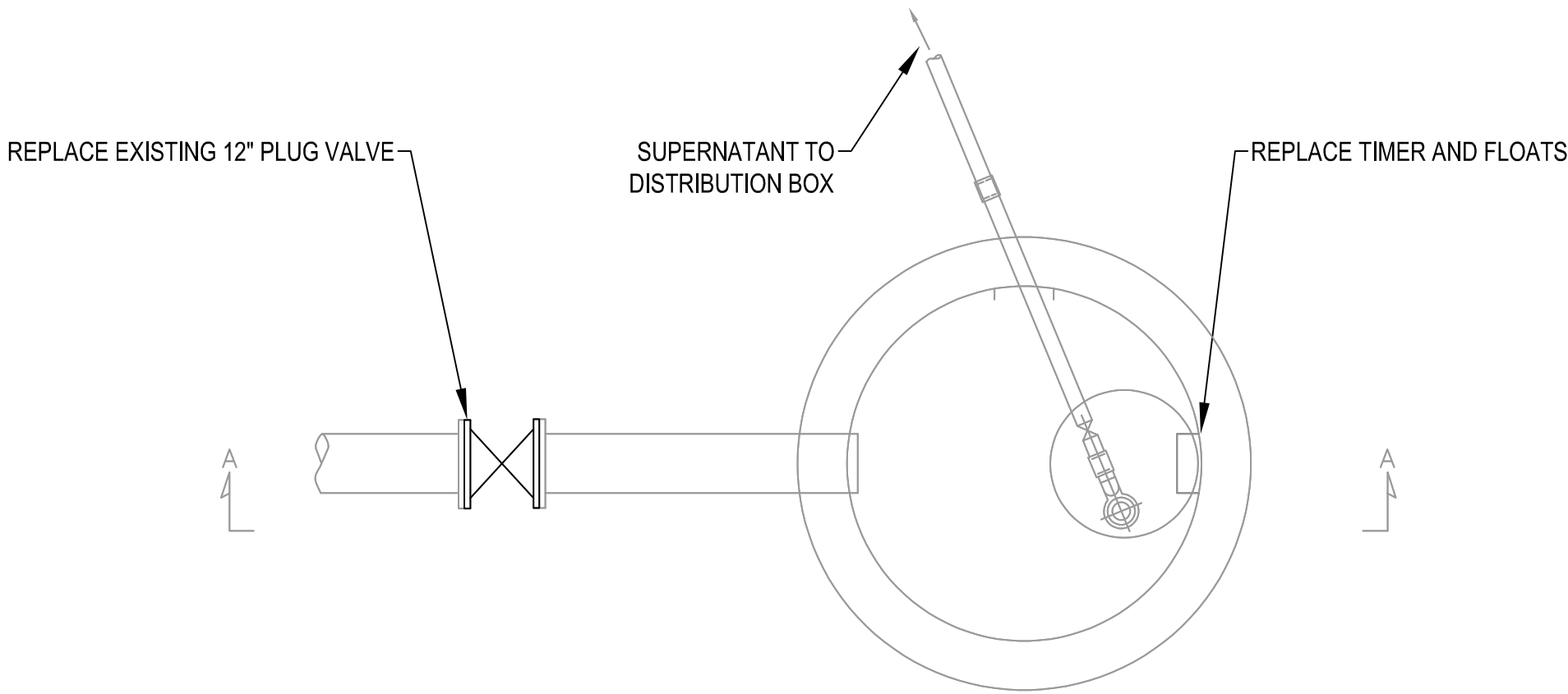
C101



SUPERNATANT SKIMMER

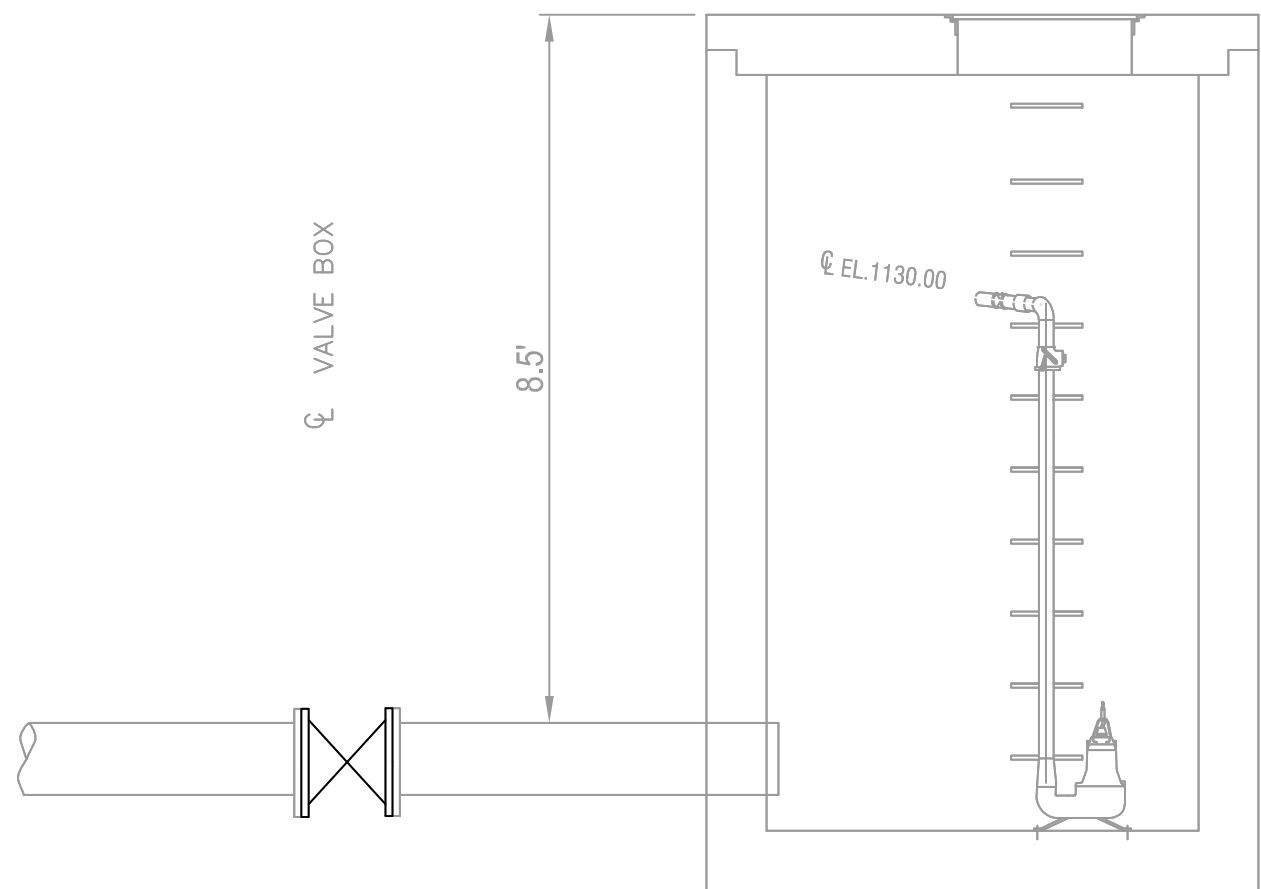
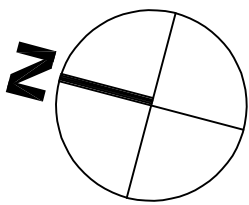
N.T.S

- NOTES:
- FURNISH NEW DECANT SKIMMER IN LAGOON #2 TO REPLACE EXISTING
 - DECANT SKIMMER IS FURNISHED AS AN ASSEMBLY
 - OWNER WILL DECANT LAGOON 2. CONTRACTOR TO REMOVE & DISPOSE OF STORED SLUDGE OFFSITE



SUPERNATANT PUMP STATION PLAN VIEW

N.T.S

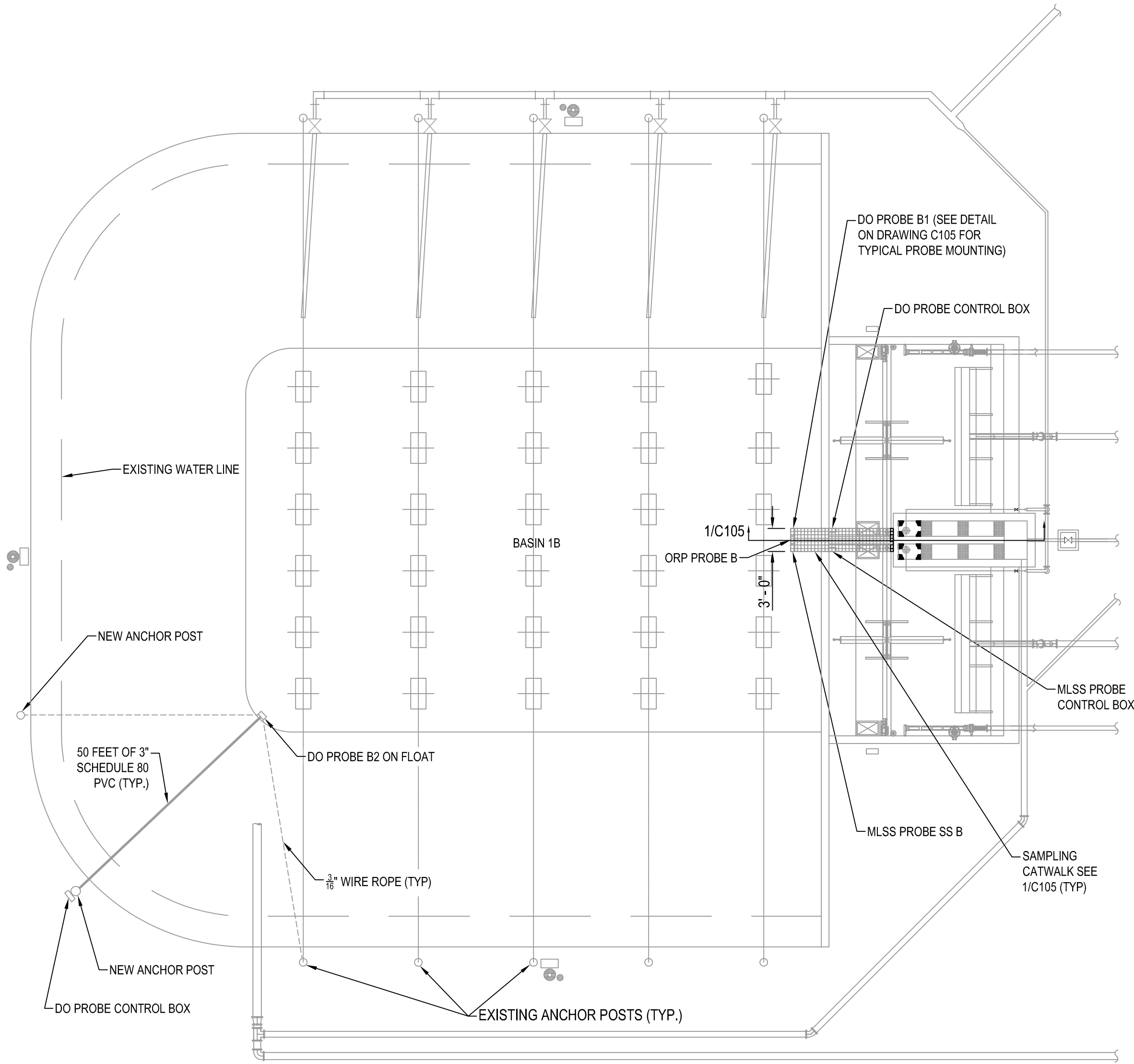


SUPERNATANT PUMP STATION SECTION A-A

N.T.S.

11/19/2025 2:51:19 PM
B:\GLOBAL\Projects\Elkland Borough\2242861 - WWTP Consent Order Improvements\06_Drawings\Process\C102_AERATION BASIN.dwg

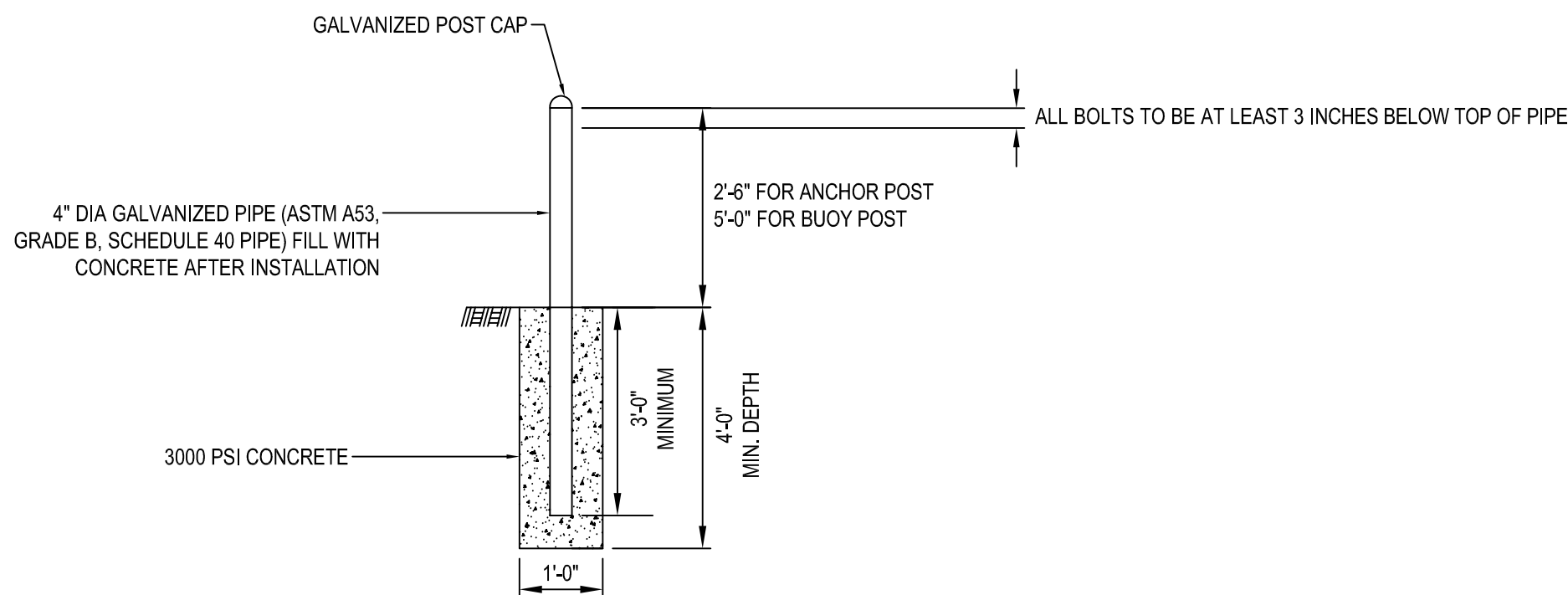
- NOTES
- CLEAN UP, RENOVATE, OR REPLACE BIOUSER ASSEMBLIES IN BASIN 1A
 - CONTRACTOR TO PROVIDE 2 DAYS OF CRANE SERVICE, 1 DAY TO LIFE AERATION CHAINS OUT OF BASIN 1A FOR EVALUATION AND REPAIR BY BOROUGH STAFF AND 1 DAY TO RESET AERATION CHAINS. REPAIRS ARE ANTICIPATED TO TAKE NO MORE THAN 4 DAYS, COORDINATE WITH BOROUGH PERSONNEL.



- NOTE:
- CONTRACTOR IS RESPONSIBLE FOR ALL MOUNTING FIXTURES, BRACKETS, ADAPTERS, AND ANY OTHER COMPONENT NEEDED TO SECURELY MOUNT PRICES IN THE INDICATED LOCATIONS.

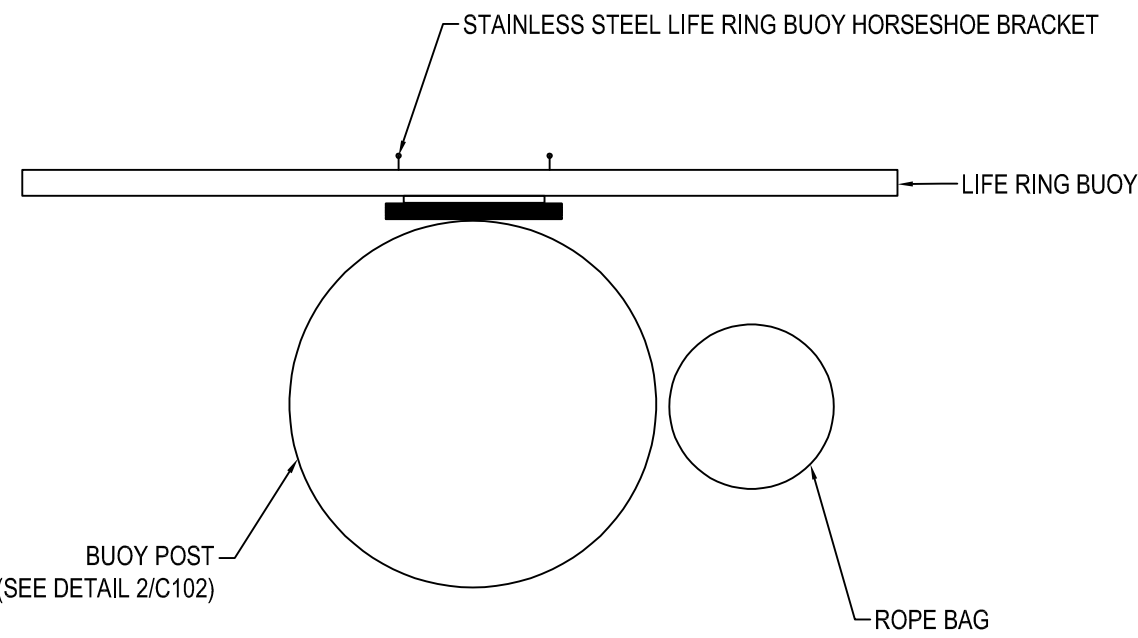
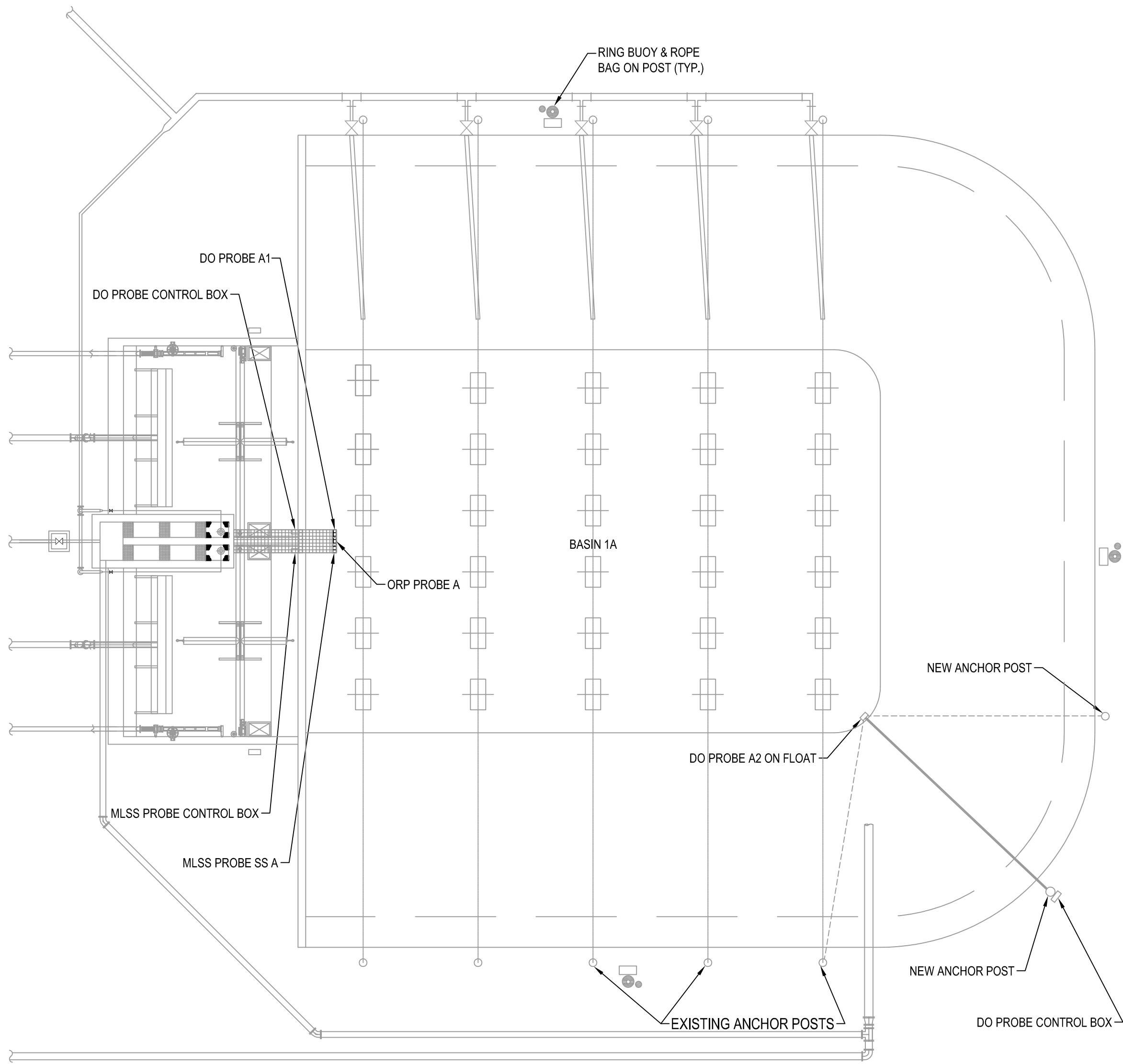
3 AERATION BASIN AND CLARIFIER PLAN VIEW

C102 1/12"=1'-0"



2 POST DETAIL (TYP)

N.T.S



1 LIFE BUOY DETAIL (TYP)

N.T.S

300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com

EXP: ###/##/20##

EXP: ###/##/20##

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2025 LaBella Associates



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

WASTEWATER TREATMENT FACILITIES CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: TK

REVIEWED BY: BBU

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

AERATION BASINS

DRAWING NUMBER:

C102

NOTE: FIELD VERIFY MEASUREMENTS SHOWN ON DRAWINGS

EXP: ##/##/20##EXP: ##/##/20##

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2025 LaBella Associates



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER:	2242861
-----------------	---------

DRAWN BY:	TK
-----------	----

REVIEWED BY:	BBU
--------------	-----

ISSUED FOR:	BID
-------------	-----

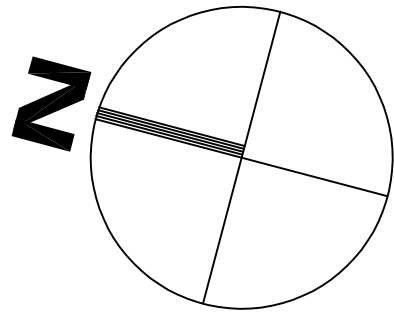
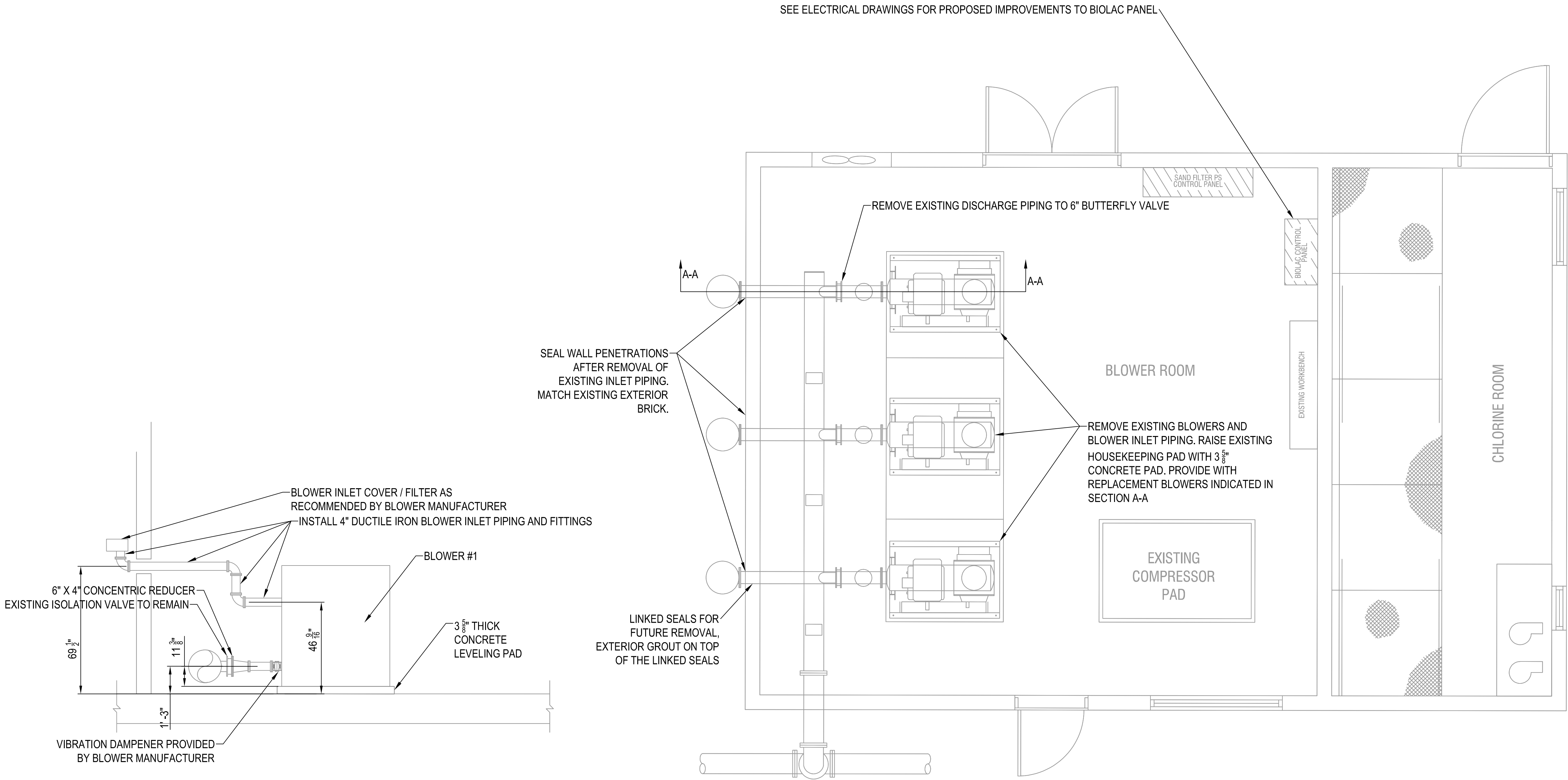
DATE:	NOVEMBER 2025
-------	---------------

DRAWING NAME:	
---------------	--

BLOWER ROOM

DRAWING NUMBER:	
-----------------	--

C103





BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

**WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS**

115 ELLISON ROAD
ELKLAND, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: TK

REVIEWED BY: BBU

ISSUED FOR: BID

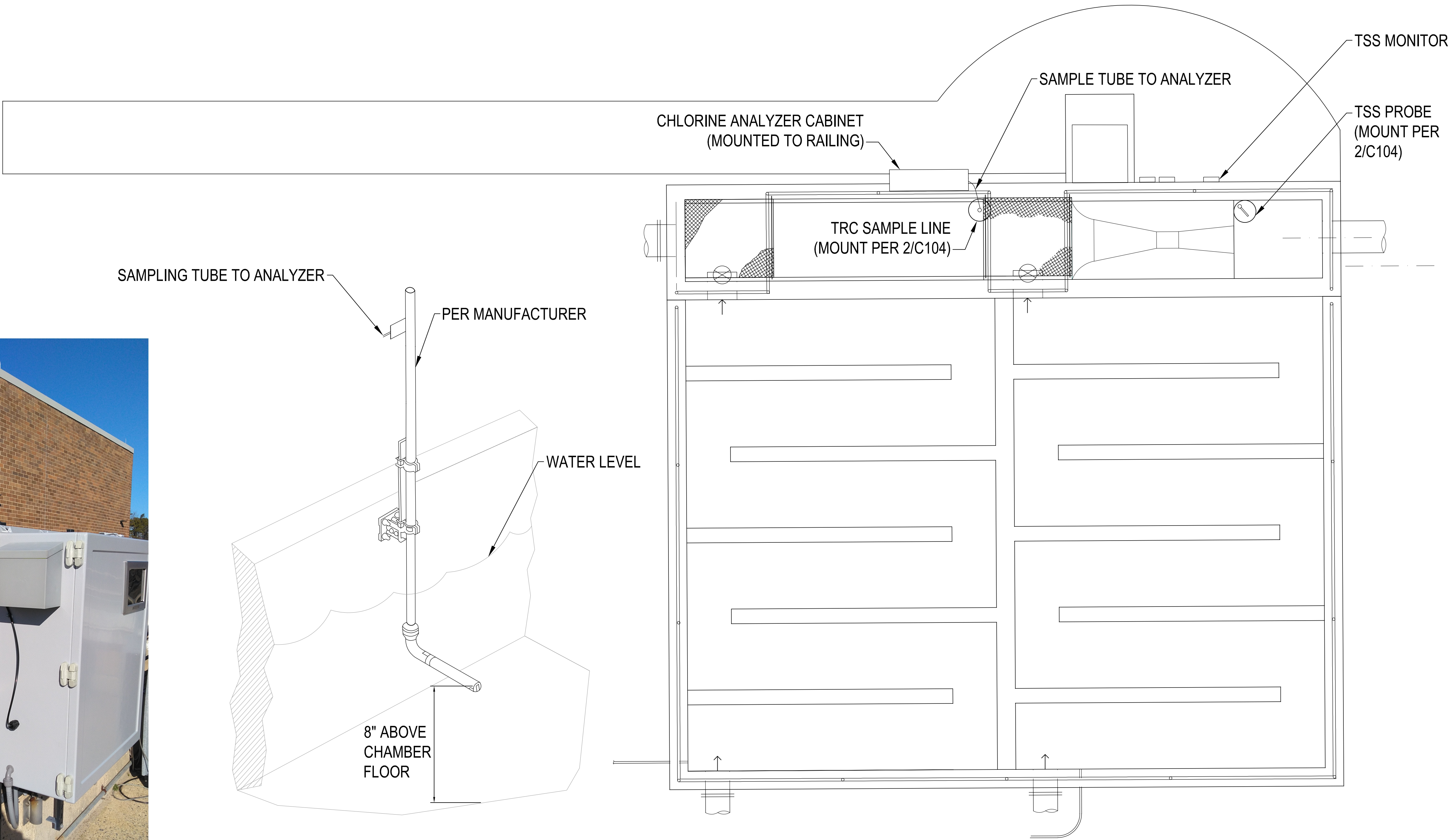
DATE: NOVEMBER 2025

DRAWING NAME:

**TRC & TSS
MONITORING**

DRAWING NUMBER:

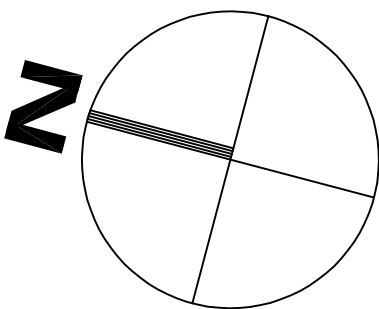
C104



- NOTES:
- FOR PROBES (TRC AND TSS) CONFIRM INSTALLATION LOCATION WITH ENGINEER PRIOR TO BEGINNING INSTALLATION WORK.

2
C104
PROBE MOUNTING DETAIL
N.T.S

1
C104
CHLORINE CONTACT BASIN
3/8" = 1'-0"





300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

abellapc.com

EXP: ##/##/20##

EXP: ##/##/20##

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2025 LaBella Associates



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

WASTEWATER TREATMENT FACILITIES CONSENT ORDER IMPROVEMENTS

115 ELLISON ROAD
ELKLAND, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 224286

DRAWN BY: TK

REVIEWED BY: BBU

ISSUED FOR: BID

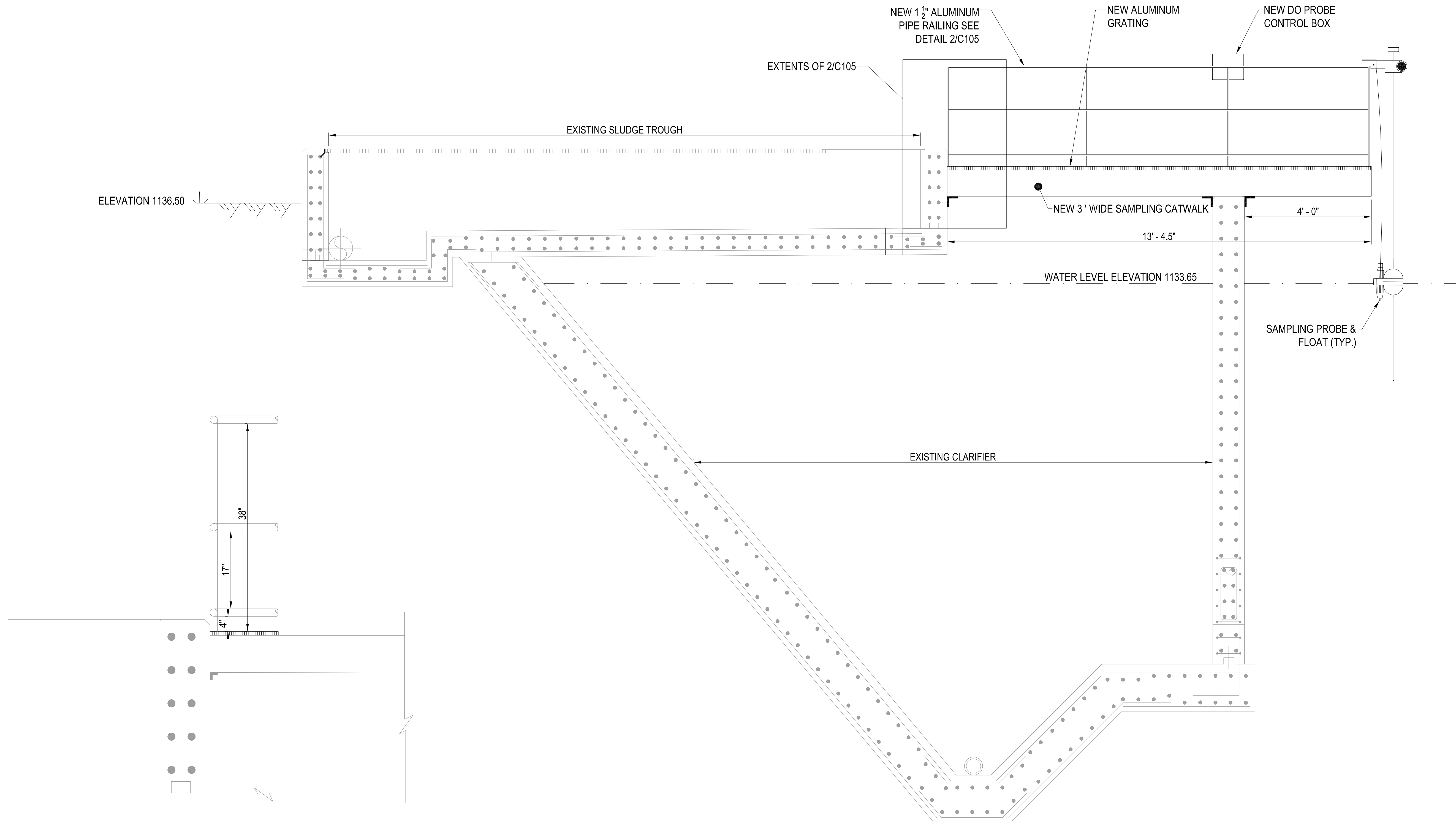
DATE: NOVEMBER 2025

DRAWING NAME

SAMPLING CATWALK

DRAWING NUMBER:

C105



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DELEGATED DESIGN FOR SAMPLING CATWALK AS GENERALLY INDICATED. CONTRACTOR IS RESPONSIBLE FOR ALL COMPONENTS REQUIRED TO CONSTRUCT CATWALK AND SECURE TO EXISTING TANK

CLARIFIER SECTION

$$1/12'' = 1'-0''$$

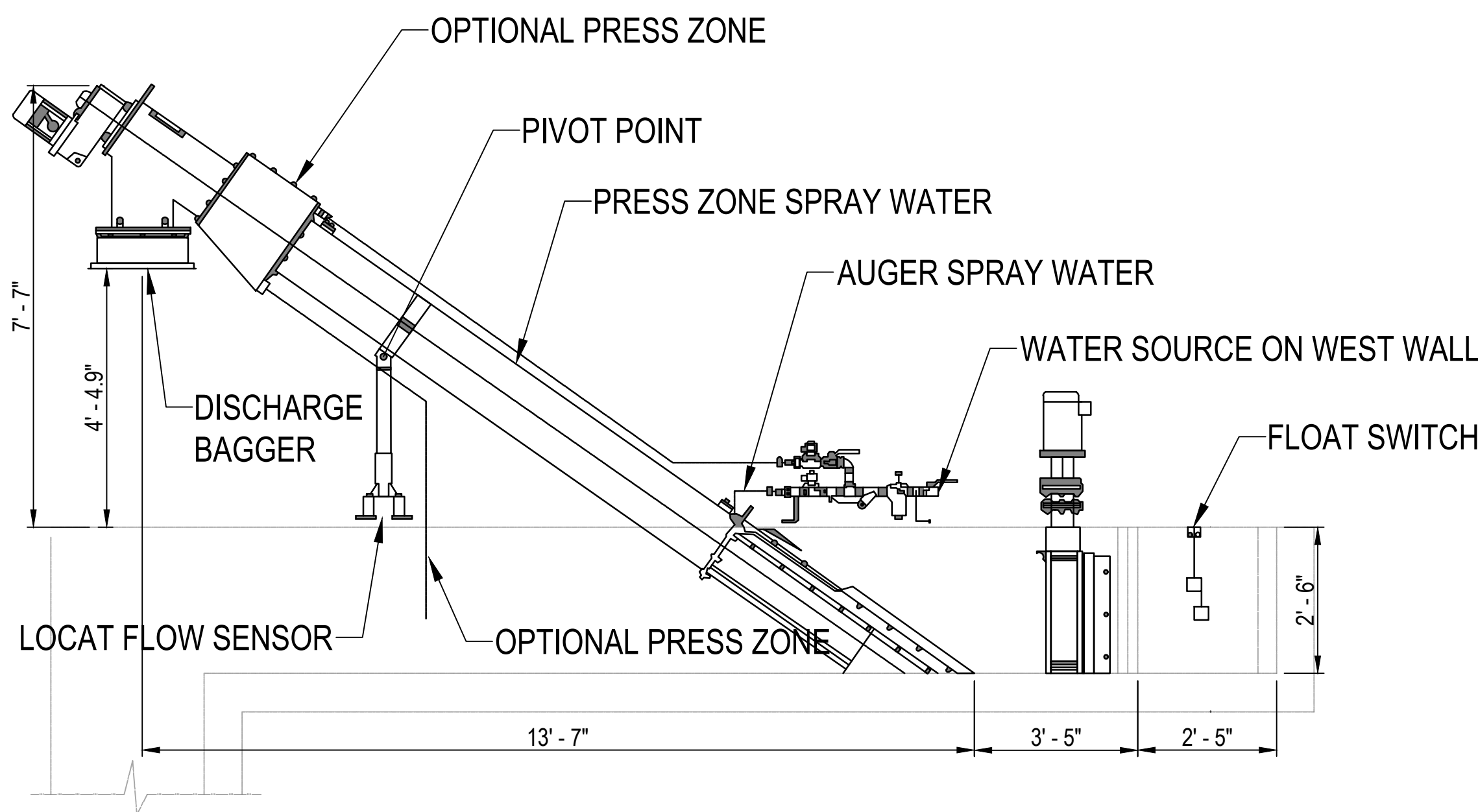
2

C105

PARTIAL SECTION

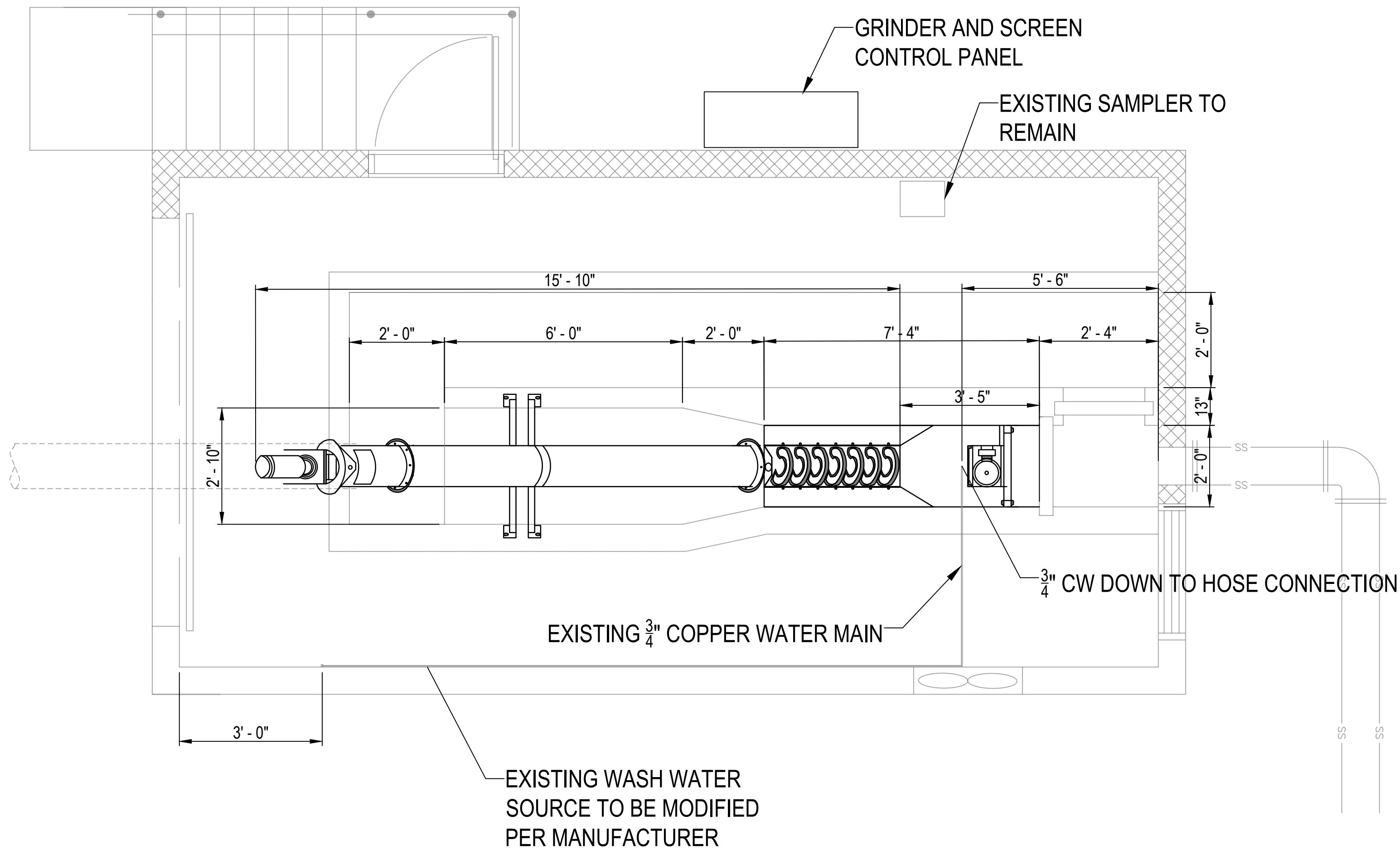
N.T.S

11/18/2025 10:11:05 AM
B:\GLOBAL\Projects\Elkland Borough\0242861 - WWTP Consent Order Improvements\06_Drawings\Process\06 HEADWORKS.dwg



2
C106 MODEL ALT1835 - 300 AUGER MONSTER
N.T.S

- NOTES:
1. REMOVE EXISTING GRINDER AND AUGER SCREEN
 2. FURNISH NEW GRINDER AND NEW AUGER SCREEN
 3. ENSURE SCREEN DISCHARGE DOES NOT INTERFERE WITH FLOW METER.
METER TO BE RELOCATED IF NECESSARY



1
C106 PLAN VIEW
N.T.S



BOROUGH OF ELKLAND

105 PARKHURST ST
ELKLAND, PA 16920

**WASTEWATER TREATMENT
FACILITIES
CONSENT ORDER IMPROVEMENTS**

115 ELLISON ROAD
ELKLAND, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER:	2242861
DRAWN BY:	TK
REVIEWED BY:	BBU
ISSUED FOR:	BID
DATE:	NOVEMBER 2025
DRAWING NAME:	

**HEADWORKS
EQUIPMENT**

DRAWING NUMBER:

C106

GROUNDING & BONDING	
	GROUND ROD
	EQUIPMENT ROOM GROUND TERMINAL BAR, 18" AFF
	TELECOMMUNICATIONS GROUNDING BUSBAR, 18" AFF
	GROUND

RACEWAY, BOXES, & BUSWAY

	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CAPPED CONDUIT
	CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
	MANHOLE
	HANDHOLE
	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, INSTALLED IN CEILING
	PULL BOX

	DISCONNECT SWITCH, UNFUSED DISCONNECT SWITCH, PER EQUIPMENT SCHEDULE, 48" AFF
	FUSED DISCONNECT SWITCH, PER EQUIPMENT SCHEDULE, 48" AFF
	FUSE (ONE-LINE NOTATION)
	CIRCUIT BREAKER (ONE-LINE NOTATION)
	LOW VOLTAGE INTERRUPTER SWITCH (ONE-LINE NOTATION)
	TRANSFER SWITCH (ONE-LINE NOTATION)
	FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 44" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
	COMBINATION MOTOR CONTROLLER/DISCONNECT, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
	MOTOR CONTROLLER, PER EQUIPMENT CONNECTION SCHEDULE, 48" AFF
	VARIABLE SPEED DRIVE/VARIABLE FREQUENCY DRIVE
	TRANSFORMER (PLAN NOTATION)
	TRANSFORMER (ONE-LINE NOTATION)
	CURRENT TRANSFORMER (ONE-LINE NOTATION)
	METER CABINET/SOCKET (ONE-LINE & PLAN NOTATION)

GENERAL ELECTRICAL DEVICE NOTATION:

	NEMA 5-20R SIMPLEX RECEPTACLE, 18" AFF.
	NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
	NEMA 5-20R DUPLEX RECEPTACLE, INSTALLED FLUSH IN CEILING
	NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF
	NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT OR AS CALLED OUT, 18" AFF
	EMERGENCY POWER OFF STATION, RED MUSHROOM PUSHBUTTON STYLE, KEY-RELEASE TYPE, 54" AFF
	SURGE PROTECTION DEVICE, TOP OF ENCLOSURE 74" AFF
	HOME RUN TO PANEL, PANELBOARD & CIRCUIT NUMBER INDICATED

CIRCUIT NOTATION:

11.13 ——— CIRCUIT NUMBER(S)
 TNLT ——— SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:
 20A CB - #12 AWG
 30A CB - #10 AWG
 40A CB - #8 AWG
 50A CB - #6 AWG

INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:

1. INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR
2. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
3. LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
4. SCHEDULE ASSUMES 12A LOAD. FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZES ACCORDINGLY TO ACCOUNT FOR VOLTAGE DROP PER THE NEC.

	MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE
	SINGLE POINT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE

FURNISH:	SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
INSTALL:	UNLOAD, TEMPORARILY STORE, UNPACK, ASSEMBLE, ERECT, PLACE, ANCHOR, APPLY, WORK TO DIMENSION, FURNISH, CURE, PROTECT, CLEAN, AND SIMILAR OPERATIONS AT PROJECT SITE.
PROVIDE:	FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
PROJECT SITE:	SPACE AVAILABLE FOR PERFORMING CONSTRUCTION ACTIVITIES. THE EXTENT OF THE PROJECT SITE IS SHOWN ON THE DRAWINGS AND MAY OR MAY NOT BE IDENTICAL WITH THE DESCRIPTION OF THE LAND ON WHICH THE PROJECT IS TO BE BUILT.

1. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
2. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
3. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG [EXCEPT LIFE SAFETY/EMERGENCY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG]. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
4. PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
5. PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTORS IN ALL BRANCH AND FEEDER CIRCUITS.
6. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
7. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
8. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
9. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.
10. SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIE DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.

1. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED, WHERE EQUIPMENT IS SCHEDULED TO BE REMOVED. ABANDON CONCEALED RACEWAY AND REMOVE CONDUCTORS BACK TO SOURCE OR LAST SCHEDULED DEVICE TO REMAIN. REMOVE EXPOSED RACEWAY AND CONDUCTORS BACK TO POWER SOURCE OR LAST DEVICE SCHEDULED TO REMAIN IN ALL OTHER AREAS.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED, WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS, WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. PROVIDE SPECIAL COVERPLATES TO SUIT FIELD CONDITIONS.
4. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
6. STORE REMOVED ELECTRICAL EQUIPMENT SUCH AS LUMINAIRES, POWER AND COMMUNICATION DEVICES, DISTRIBUTION EQUIPMENT, CONTROLLERS, ETC. ON JOB SITE FOR REUSE UNTIL SUBMITTAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
7. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REMOVAL OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF

1. CONCEALED AND EXPOSED WET/DAMP/CORROSIVE LOCATIONS: PROVIDE PVC COATED GALVANIZED RIGID STEEL CONDUIT WITH URETHANE INTERIOR COATING. ELECTRICAL CONTINUITY IS MAINTAINED ACROSS ASSEMBLED JOINTS. ALL FITTINGS, ELBOWS, CONDUIT BODIES USED SHALL BE MANUFACTURED TYPE CONSTRUCTED OF PVC COATED GALVANIZED RIGID STEEL. CONDUIT BODIES SHALL BE SUPPLIED WITH RUBBER GASKET AND STAINLESS STEEL HARDWARE.
2. SUPPORT RACEWAY USING 304 STAINLESS STEEL STRUT, PIPE CLAMPS, ADJUSTABLE HANGERS, AND CLEVIS HANGERS.
3. GROUP RELATED RACEWAY: SUPPORT USING CONDUIT RACK. CONSTRUCT RACK USING 304 STAINLESS STEEL STRUT.
4. MINIMUM RACEWAY SIZE: 3/4 INCH UNLESS OTHERWISE SPECIFIED.
5. GROUND AND BOND RACEWAY AND BOXES.
6. FASTEN RACEWAY AND BOX SUPPORTS TO STRUCTURE. IDENTIFY RACEWAY AND BOXES.
7. RACEWAY ROUTING IS SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ROUTE TO COMPLETE WIRING SYSTEM.
8. ARRANGE RACEWAY AND BOXES TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE. ARRANGE RACEWAY SUPPORTS TO PREVENT MISALIGNMENT DURING WIRING INSTALLATION.
9. RACEWAYS INSTALLED EXPOSED AND INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
10. CUT CONDUIT SQUARE USING SAW OR PIPE CUTTER; DE-BURR CUT ENDS.
11. INSTALL NO MORE THAN EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN BOXES. INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS.
12. AVOID MOISTURE TRAPS; INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.
13. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE RACEWAY CROSSES CONTROL AND EXPANSION JOINTS.
14. FIRESTOP ALL CONDUIT PENETRATIONS INTO CORRIDOR. SEALANT SHALL BE RATED MINIMUM 2 HOURS FIRE BARRIER, SMOKE SEAL, SOUND BARRIER, UL 900G LISTED, AND FM APPROVED. ACCEPTABLE PRODUCT 3M FIRE BARRIER SEALANT CP2SWB+ OR APPROVED EQUAL.
15. INSTALL SUITABLE PULL STRING OR CORD IN EACH EMPTY RACEWAY EXCEPT SLEEVES AND NIPPLES.
16. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
17. MAINTAIN CLEARANCE BETWEEN RACEWAY AND PIPING FOR MAINTENANCE PURPOSES.
18. ALL FINAL CONDUIT CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. LENGTH OF FLEXIBLE METAL CONDUIT SHALL NOT EXCEED 3'-0".
19. INSTALL IDENTIFYING NAMEPLATES ON ALL NEW EQUIPMENT. NAMEPLATE SHALL BE LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON WHITE CONTRASTING BACKGROUND COLOR. LETTERS SHALL BE 1/4" HIGH. THE NAMEPLATE SHALL HAVE A MINIMUM THICKNESS OF 1/8" AND BE ATTACHED TO THE EQUIPMENT WITH SUITABLE ADHESIVE.

Δ	DELTA	MAX	MAXIMUM
Ø	PHASE	MC	MECHANICAL CONTRACTOR
A	AMPERE	MCA	MINIMUM CIRCUIT AMPERES
AFCI	ARC-FAULT CIRCUIT INTERRUPTING	MCB	MAIN CIRCUIT BREAKER
AF	AMP FRAME	MDO	MAIN DISTRIBUTION PANELBOARD
AFB	ABOVE FINISHED FLOOR	MNI	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	NA	NOT APPLICABLE
AIC	AMPERE INTERRUPTING CAPACITY	NIC	NOT IN CONTRACT
AL	ALUMINUM	NTS	NOT TO SCALE
C	CONDUIT	OC	OVER COUNTER
CT	CURRENT TRANSFORMER	PH	PHASE
CU	COPPER	SPO	SURGE PROTECTIVE DEVICE
E	EACH	STP	SHIELDED TWISTED PAIR
EC	ELECTRICAL CONTRACTOR	TR	TAMPER RESISTANT
ECB	ENCLOSED CIRCUIT BREAKER	TYP	TYPICAL
EF	EXHAUST FAN	UC	UNDERGROUND COMMUNICATION
EMT	ELECTRICAL METALLIC TUBING	UNO	UNLESS NOTED OTHERWISE
ETR	EXISTING TO REMAIN	V	VOLT
ER	EXISTING RELOCATED	VA	VOLT-AMPERE
EX	EXISTING	W	WATT
EXP	EXPLOSION PROOF	WAP	WIRELESS ACCESS POINT
GC	GENERAL CONTRACTOR	WG	WIRE GUARD
GFI	GROUND FAULT INTERRUPTING	WP	WEATHERPROOF
KAC	KILOAMPERE INTERRUPTING CURRENT		
KVA	KILOVOLT AMPERE KW KILOWATT		

BOD	BIOCHEMICAL OXYGEN DEMAND
COD	CHEMICAL OXYGEN DEMAND
DO	DISSOLVED OXYGEN
FM	FOOD TO MASS RATIO
MCRT	MEAN CELL RESIDENCE TIME
MLSS	MIXED LIQUOR SUSPENDED SOLIDS
MLVSS	MIXED LIQUOR VOLITILE SUSPENDED SOLIDS
RAS	RETURN ACTIVATED SLUDGE
SRT	SOLIDS RESIDENCE TIME
SVI	SLUDGE VOLUME INDEX
TRC	TOTAL RESIDUAL CHLORINE
TSS	TOTAL SUSPENDED SOLIDS
WAS	WASTE ACTIVATED SLUDGE

IDENTIFICATION OF CONDUCTORS:

- CONDUCTORS SHALL BE IDENTIFIED AT EACH TERMINATION BY NUMBER, LETTER, COLOR.
- MINIMUM WIRE SIZE: 14AWG FOR POWER, 16AWG FOR CONTROL
- WIRE INSULATION INSIDE CONTROL PANEL: MTW
- UNGROUNDED AC AND DC POWER CONDUCTORS - BLACK
- GROUNDED AC CIRCUIT - WHITE OR GRAY
- EQUIPMENT GROUNDING CONDUCTOR - GREEN OR GREEN WITH YELLOW STRIPE
- UNGROUNDED AC CONTROL CONDUCTORS - RED
- UNGROUNDED DC CONTROL CONDUCTORS - BLUE
- GROUNDED (CURRENT-CARRYING) DC CIRCUIT CONDUCTOR WHEN THE MAIN SUPPLY CIRCUIT DISCONNECTING MEANS IS IN THE OFF POSITION - WHITE WITH BLUE STRIPE
- UN-GROUNDED AC CONDUCTORS THAT REMAIN ENERGIZED WHEN THE MAIN SUPPLY CIRCUIT DISCONNECTING MEANS IS IN THE OFF POSITION - ORANGE
- (CURRENT-CARRYING) AC CIRCUIT CONDUCTOR THAT REMAIN ENERGIZED WHEN THE MAIN SUPPLY CIRCUIT DISCONNECTING MEANS IS IN THE OFF POSITIOND - WHITE WITH ORANGE STRIPE

	NEW WORK
	EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK
	WORK TO BE REMOVED (DEMO PLANS) - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE, UNLESS NOTED OTHERWISE / UNDERFLOOR CONDUIT (NEW PLANS)
	WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
	DRAWING KEYED NOTES
	SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED

PANELBOARD ONE-LINE NOTATION:

208/120V SYSTEM

480/277V SYSTEM

MCB

150A-3P

150A-3P

150A-3P

TEXT INDICATES LUG/ BREAKER TYPE

FEEDER BREAKERS (BRANCH BREAKERS SHOWN ON EACH PANELBOARD SCHEDULE)

PANELBOARD - FLOOR PLAN NOTATION:

BRANCH CIRCUIT PANELBOARD, 480Y/277V, 3 ϕ , 4W

BRANCH CIRCUIT PANELBOARD, 208Y/120V, 3 ϕ , 4W

NOTE: LIGHTING CONTROL DEVICES SHOW FUNCTIONAL REQUIREMENTS, NOT ALL DEVICES NEEDED FOR A FULLY FUNCTIONING SYSTEM. DETERMINATION AND MANUFACTURER, DEVICES SUCH AS POWER PACKS, DELAYS, SINGLE/DOUBLE/TRIPLE OUTPUT RAMP CONTROLLERS MAY BE NECESSARY. REFER TO DETAILS & SPECIFICATIONS.

	SINGLE POLE TOGGLE SWITCH, 44" AFF. LOWER CASE LETTER INDICATES CONTROL
	3-WAY TOGGLE SWITCH, 44" AFF. LOWER CASE LETTER INDICATES CONTROL
	4-WAY TOGGLE SWITCH, 44" AFF. LOWER CASE LETTER INDICATES CONTROL
	MOMENTARY CONTACT SWITCH, 44" AFF

NOTATION:

SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)

CIRCUIT #

SWITCHLEG CONTROL ARRANGEMENT

LUMINAIRE TYPE - REFER TO LUMINAIRE SCHEDULE

POLE TYPE - REFER TO SITE LIGHTING POLE SCHEDULE/LUMINAIRE SCHEDULE

DOTS INDICATE PENDANT HUNG

ARROW INDICATES AIMING DIRECTION (WHERE APPLICABLE)

TAIL INDICATES WALL MOUNT STYLE LUMINAIRE

GEOMETRIC SHAPE LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE

ILLUMINATED EXIT SIGN - SINGLE/DOUBLE FACE AS SHOWN - DIRECTION OF ARROWS AS INDICATED - CEILING, SURFACE WALL, OR PERPENDICULAR WALL AS SHOWN

SELF CONTAINED BATTERY LIGHTING UNIT

REMOTE LIGHTING LAMP HEAD(S) - CONNECT TO REMOTE BATTERY PACK IN INTERIOR ACCESSIBLE CEILING SPACE

LUMINAIRE(S) AND POLE ASSEMBLY

4-20mA SIGNALS:

#8760 - 2 CONDUCTOR 18AWG (16X30) TINNED COPPER, PE INSULATION, OVERALL BELDFOIL® SHIELD, PVC OUTER JACKET, CM, FOR USE WITH LOW VOLTAGE ANALOG SIGNALS (4-20MA, 0-10V, ...), OVERALL DIAMETER 0.222 INCHES, CROSS SECTIONAL AREA 0.0387 SQ. IN.

RTD SIGNALS:

#8770 - 3 CONDUCTOR 18AWG (16X30) TINNED COPPER, PE INSULATION, OVERALL BELDFOIL® SHIELD, PVC OUTER JACKET, CM, FOR USE WITH LOW VOLTAGE ANALOG SIGNALS (4-20MA, 0-10V, RTD, ...), OVERALL DIAMETER 0.246 INCHES, CROSS SECTIONAL AREA 0.0475 SQ. IN.

CONTROLNET:

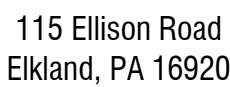
#3092A - COAX RG-6 18 AWG (SOLID) BARE COPPER COVERED STEEL, FOAM PE INSULATION, OVERALL DUOBOND® II+ALUMINUM BRAID(60%)+DUOFOIL®+ALUMINUM BRAID(40%) SHIELD, PVC OUTER JACKET, CMR, OVERALL DIAMETER 0.290 INCHES, CROSS SECTIONAL AREA 0.0697 SQ. IN.

MODBUS RS-485:

#3105A - 1202, 1 PAIR 22AWG (7X30) TINNED COPPER, DATALENE INSULATION, OVERALL FOIL + 65% COPPER BRAID, PVC JACKET, CM, P.L.T.C. SUN RESISTANT AND OIL RESISTANT, OVERALL DIAMETER 0.294 INCHES, CROSS SECTIONAL AREA 0.0679 SQ. IN.

INDUSTRIAL ETHERNET:

#7958A - CAT. 5E, 4 BONDED-PAIR 24AWG SOLID BARE COPPER, PO INSULATION, OVERALL BELDFOIL SHIELD, PVC OUTER JACKET, CMR 600V, AWM 21047, OVERALL DIAMETER 0.275 INCHES, CROSS SECTIONAL AREA 0.0594 SQ. IN.

DRAWING NUMBER:

E001

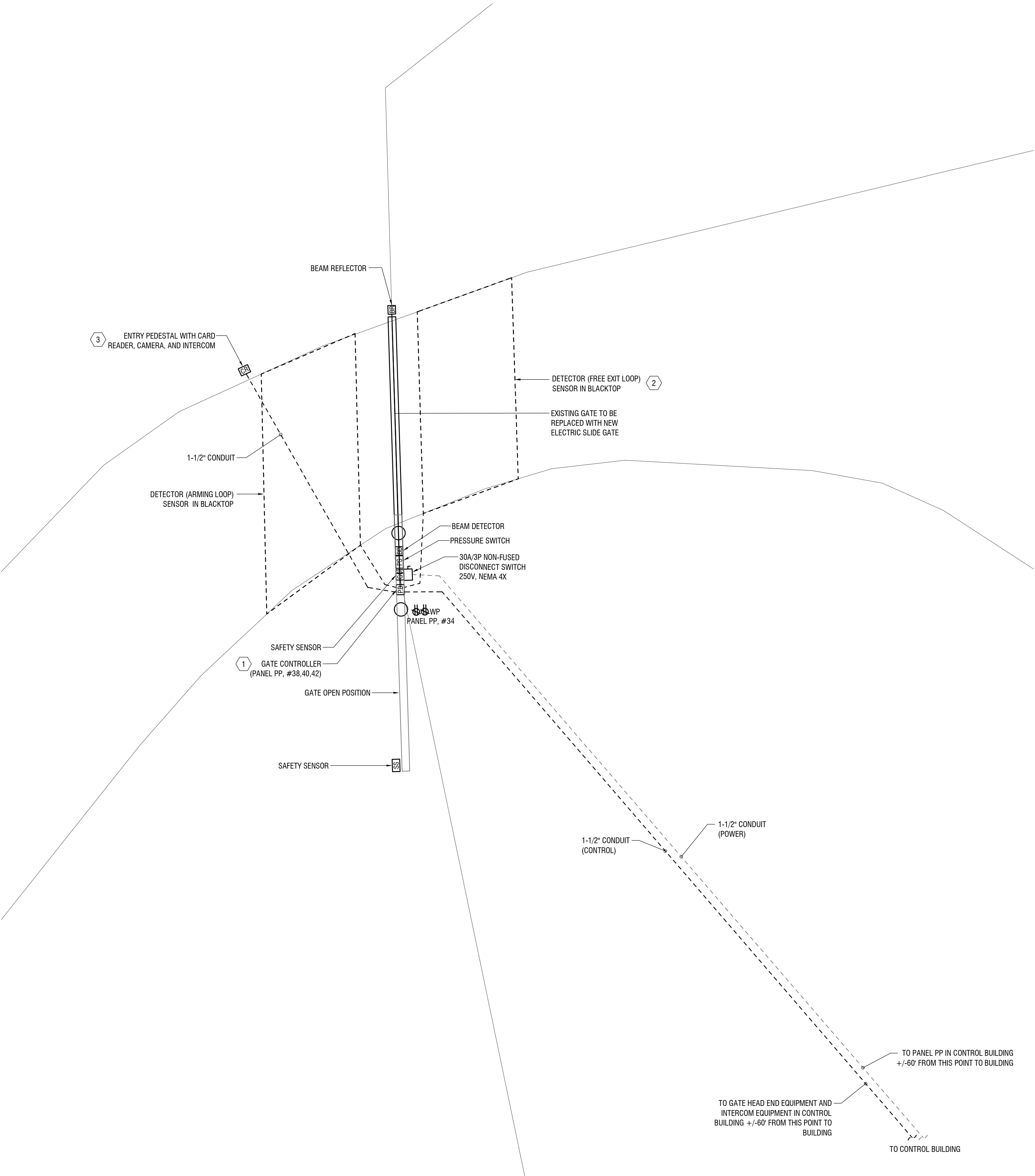
11/17/2025 2:58:47 PM \\casha.la\l\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06_Drawings\Electrical\E051 Security Gate Enlarged Site Plan.dwg

1

E050

SITE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

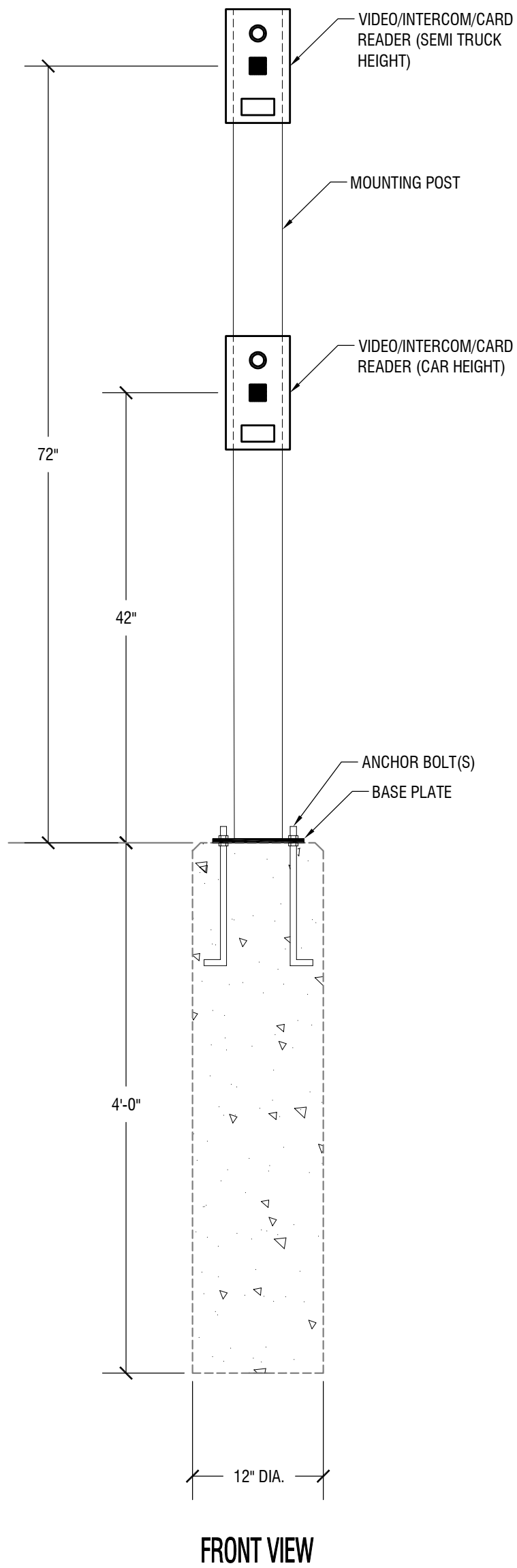


2

E051

GATE - ENTRY PEDESTAL

NOT TO SCALE



GATE NOTES:

- REFER TO GATE CONTROLLER'S MANUFACTURING INSTALLATION DRAWINGS AND INSTRUCTIONS FOR INSTALLATION DETAILS.
- PROVIDE INSTRUCTIONAL AND PRECAUTIONARY SIGNAGE AT AUTOMATIC SLIDE GATE.
- THE AUTOMATIC SLIDE GATE OPERATOR SHALL BE INSTALLED AND SERVICED BY A TRAINED GATE SYSTEMS TECHNICIAN ONLY.
- THE AUTOMATIC SLIDE GATE IS FOR USE ON VEHICULAR TRAFFIC ONLY AND IS NOT INTENDED FOR PEDESTRIAN TRAFFIC.
- UPON COMPLETION OF THE AUTOMATIC SLIDING GATE INSTALLATION, TEST THE FUNCTIONALITY OF THE GATE CONTROLLER AND SAFETY DEVICES FOR CORRECT FUNCTIONALITY. MAKE CORRECTIONS TO ANY ITEMS DEEMED NOT FUNCTIONING PROPERLY AND RETEST.
- INTERIOR SENSOR LOOP (FREE EXIT LOOP) SHALL OPEN GATE FOR VEHICLES LEAVING THE SITE.
- EXTERIOR SENSOR LOOP (ARMING LOOP), THE VEHICLE MUST DRIVE ONTO THE ARMING LOOP BEFORE USING AN ACCESS DEVICE SUCH AS A CARD READER.

UL325 ENTRAPMENT PROTECTION REQUIREMENTS:

- A MINIMUM OF TWO INDEPENDENT* MONITORED ENTRAPMENT PROTECTION DEVICES ARE REQUIRED TO BE INSTALLED AT EACH ENTRAPMENT ZONE.
- IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSTALL EXTERNAL MONITORED ENTRAPMENT PROTECTION DEVICES IN EACH ENTRAPMENT ZONE.
- THE VEHICULAR SLIDE GATE OPERATOR WILL OPERATE ONLY AFTER INSTALLATION OF A MINIMUM OF TWO INDEPENDENT* MONITORED ENTRAPMENT PROTECTION DEVICES IN EACH DIRECTION, TWO IN THE OPEN DIRECTION AND TWO IN THE CLOSE DIRECTION.
- ENTRAPMENT PROTECTION DEVICE TYPES INCLUDE INHERENT (BUILT INTO THE OPERATOR), MONITORED EXTERNAL PHOTOELECTRIC SENSORS AND MONITORED EXTERNAL EDGE SENSORS.
- THE OPERATOR IS PROVIDED WITH AN INHERENT ENTRAPMENT PROTECTION DEVICE BUILT INTO THE OPERATOR THAT SERVES AS ONE OF THE TWO INDEPENDENT DEVICES.

* INDEPENDENT - THE SAME TYPE OF DEVICE SHALL NOT BE USED FOR BOTH ENTRAPMENT PROTECTION DEVICES.

REFERENCE DRAWINGS:

C001 GENERAL PLAN

E101 CONTROL BUILDING - ELECTRICAL

GENERAL NOTES:

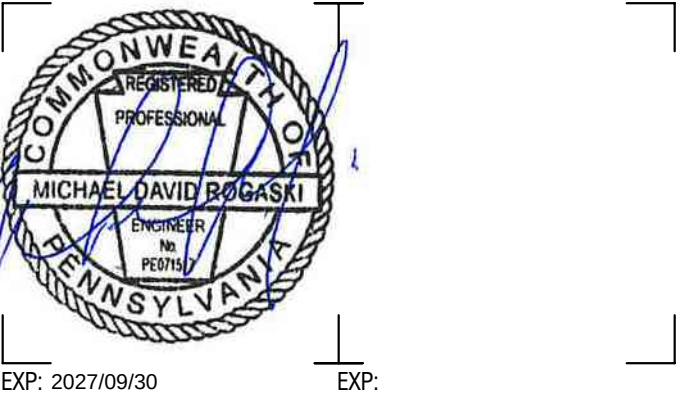
- ALL EXTERIOR ABOVE GRADE CONDUIT SHALL BE PVC COATED RIGID GALVANIZED STEEL.
- ALL EXTERIOR BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC ENCASED IN CONCRETE.

KEYED NOTES (#):

- INSTALL ALL INTERRELATED GATE WIRING PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- AUTOMATIC GATE TO OPEN TO EXIT UPON SENSING VEHICLE ON INTERIOR SENSOR LOOP.
- CONFIRM EXACT LOCATION OF ENTRY PEDESTAL WITH OPERATIONS.

300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

**SECURITY GATE
ENLARGED SITE PLAN -
ELECTRICAL**

DRAWING NUMBER:

E051

A. REFER TO PENNELEC'S CUSTOMER GUIDE FOR ELECTRIC SERVICE - PA FOR ALL SERVICE INSTALLATION REQUIREMENTS.

B. RESPONSIBILITIES

- a. POLE ON PUMP STATION LOT – PENNELEC WILL INSTALL THE POLE THE TRANSFORMERS ARE MOUNTED ON. ELKLAND CONTRACTOR IS RESPONSIBLE FOR INSTALLING POLE THAT METER IS MOUNTED ON.
- b. TRANSFORMERS –PENNELEC
- c. SERVICE DROP WITH CONNECTORS - PENNELEC.
- d. 2" RIGID GALVANIZED STEEL CONDUIT UP POLE FOR SERVICE DROP – ELKLAND CONTRACTOR
- e. 3/4x3/8 AWG COPPER CABLED FROM SERVICE DISCONNECT TO SERVICE DROP – ELKLAND CONTRACTOR.
- f. 600VAC, 200A, 3-POLE SERVICE DISCONNECT SWITCH (NEMA 3R) WITH SOLID NEUTRAL KIT – ELKLAND CONTRACTOR.
- g. CONDUIT BETWEEN DISCONNECT AND METER – ELKLAND CONTRACTOR.
- h. 200A METER SOCKET - ELKLAND CONTRACTOR.
- i. 480V, 200A, SELF CONTAINED METER - PENNELEC
- j. CONDUCTORS FROM TRANSFORMERS TO DISCONNECT. CUSTOMER IS RESPONSIBLE FOR CONDUCTOR FROM WEATHERHEAD, AT TOP OF METER POLE, ALL THE WAY TO THE METER BASE.
- k. SERVICE GROUNDING – ELKLAND CONTRACTOR

C. NEC COMPLIANT NON-FUSIBLE METER DISCONNECT SWITCH SHALL BE SUPPLIED, INSTALLED, AND MAINTAINED BY THE CUSTOMER ON THE SOURCE SIDE OF THE METER SOCKET. CONTACT THE COMPANY'S METERING SERVICES SECTION FOR DETAILS REGARDING THE REQUIREMENTS AND TO OBTAIN AN APPROVAL FOR THE PROPOSED INSTALLATION.

D. THE NON-FUSIBLE METER DISCONNECT SWITCH SHALL BE LOCKABLE IN THE OPEN AND CLOSED POSITIONS. THE SWITCH ENCLOSURE SHALL HAVE PROVISIONS FOR A COMPANY SEAL AND/PR PADLOCK.

E. UNDERGROUND CONDUIT ROUTING AND CONDUIT STUB-UPS ARE DIAGRAMMATICAL ONLY. THE E.C. IS RESPONSIBLE FOR COORDINATING PROPER ROUTING IN FIELD. COORDINATE STUB-UP LOCATIONS WITH THE GENERATOR, AUTOMATIC TRANSFER SWITCH, AND CONTROL PANEL SHAD DRAWS.

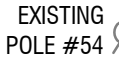
F. SITE TRENCHING AND BACK FILL FOR ALL ELECTRICAL CONDUIT INSTALLATIONS SHALL BE BY THE E.C.

G. PROVIDE CONDUIT SEALS PER NFPA 70 AT ALL CONDUITS ENTERING OR LEAVING THE HAZARDOUS RATED AREA. SEE DETAIL 1/5002 FOR HAZARDOUS RATED AREA LOCATIONS.

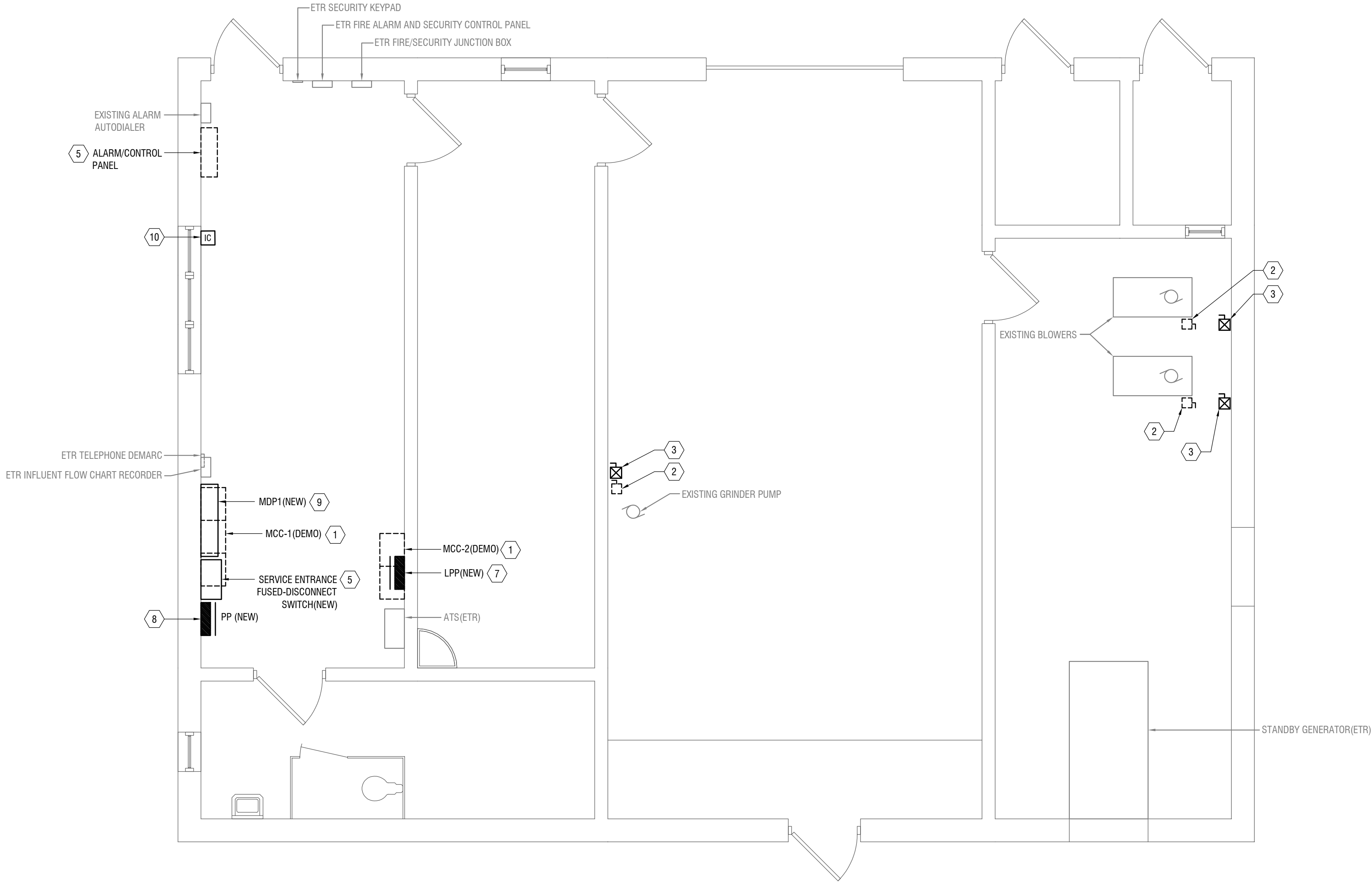
H. FOR GENERATOR, AUTOMATIC TRANSFER SWITCH, INFLUENT PUMP STATION CONTROL PANEL, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT WIRING REQUIREMENTS. VERIFY ALL WIRING FOR CORRECTNESS PRIOR TO POURING CONDUIT SEALS.

I. REFER TO VENDOR'S SHOP DRAWINGS FOR GENERATOR, AUTOMATIC TRANSFER SWITCH, INFLUENT PUMP STATION CONTROL PANEL DIMENSIONS.

1. THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE A NON-FUSIBLE, 480V, 200A, 3-POL, DISCONNECT SWITCH ON THE SOURCE SIDE OF THE SHELL CONTAINED, 480V, METER SOCKET PER PENELEC'S REQUIREMENTS. DISCONNECT SWITCH SHALL HAVE PROVISIONS FOR A METER SEAL AND/OR PADLOCK.
2. THE E.C. SHALL PROVIDE A SELF CONTAINED, 480V, METER SOCKET PER PENELEC'S REQUIREMENTS. THE METER SOCKET SHALL MEET MINIMUM REQUIREMENTS BELOW:
 - 2.1. SHALL BE UL LISTED AND LABELED.
 - 2.2. METER SOCKET WINGS SHALL BE TIN-PLATED COPPER AND SPRING SUPPORTED.
 - 2.3. LUGS SHALL BE EXTRUDED ALUMINUM AND TIN PLATED.
 - 2.4. SOCKETS SHALL BE 5TH TERMINAL ADAPTABLE (AT THE 9 O'CLOCK POSITION).
 - 2.5. SOCKETS SHALL BE RINGLESS TYPE WITH CLASP AND SLOT CLOSURE.
 - 2.6. SOCKETS SHALL HAVE 1/2" GROUND WIRE KNOCKOUT.
 - 2.7. CARDBOARD OR PLASTIC PROTECTOR.
 - 2.8. TRIPLE GROUND LUG (TRIPLE).
 - 2.9. SHALL ACCEPT A BLANKING PLATE.
 - 2.10. SHALL HAVE LEVER-OPERATED VAP RELEASE AND BY-PASS RATED FOR 100% CONTINUOUS DUTY.
 - 2.11. ALL SOCKETS SHALL HAVE THE LANDIS & GYR HQ SERIES, THE MILBANK HQ SERIES, OR THE EATON/CUTLER HAMMER MSL SERIES BLOCK ASSEMBLY.
 - 2.12. MAXIMUM HEIGHT TO CENTER OF SOCKET: 72".
 - 2.13. MINIMUM HEIGHT TO BOTTOM OF SOCKET: 30" (OUTDOORS)
 - 2.14. THE METER SOCKET SHALL BE RATED 480V/277-VOLT, 3-PHASE, 4-WIRE, 200 AMPS.
3. THE E.C. SHALL PROVIDE A SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH ON THE LOAD SIDE OF THE METER SOCKET. PROVIDE 70A, J-TYPE FUSES.
4. THE E.C. SHALL REMOVE AND DISPOSE OF THE EXISTING FENCE AND POSTS.
5. THE E.C. SHALL LOCK OUT THE FEEDER FROM THE CONTROL BUILDING TO THE EXISTING CONTROL PANEL AND REMOVE THE FEEDER CABLES FROM THEIR LUGS. THE E.C. SHALL PULL THE EXISTING FEEDER CABLES FROM THE EXISTING CONTROL PANEL BACK TO THE EXISTING HANDHOLE .
6. THE E.C. SHALL DISCONNECT AND REMOVE THE EXISTING INFLUENT PUMP STATION CONTROL PANEL AND ASSOCIATED CONDUIT AND WIRE. COORDINATE WORK WITH THE INSTALLATION OF THE NEW INFLUENT PUMP STATION CONTROL PANEL.
7. SCADA MONITORING OF THE AUTOMATIC TRANSFER SWITCH (ATS) AND GENERATOR: FOR THE ATS, MONITOR POSITION OF THE TRANSFER SWITCH (UTILITY POSITION, EMERGENCY POSITION). FOR THE GENERATOR, MONITOR (FAIL, LOW FUEL, NOT IN AUTO, LOW BATTERY, RUNNING) CONTACTS.



11/19/2025 8:50:23 AM
\\cash.la\l\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06 Drawings\Electrical\E101 Control Building.dwg



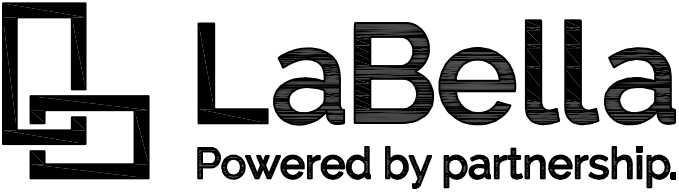
1 CONTROL BUILDING - ELECTRICAL
E101 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. COORDINATE AND SCHEDULE ELECTRICAL AND OTHER UTILITY OUTAGES WITH OWNER.
- B. PROVIDE AND MAINTAIN LIGHTING FOR CONSTRUCTION OPERATIONS TO ACHIEVE MINIMUM LIGHTING LEVEL OF 5 FOOT CANDLES.
- C. CONTRACTOR SHALL DISPOSE OF ALL MATERIAL NOTED FOR REMOVAL. USE SOURCE SEPARATION METHOD OR COMINGLING METHOD SUITABLE TO SORTING AND PROCESSING METHOD OF SELECTED RECYCLING CENTER. DISPOSE NONRECYCLABLE TRASH SEPARATELY INTO LANDFILL.
- D. COORDINATE SCHEDULING OF WORK OF VARIOUS TRADES OF SPECIFICATIONS TO ENSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF INTERDEPENDENT CONSTRUCTION ELEMENTS.
- E. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS, AND CONDUIT, AS CLOSELY AS PRACTICABLE. IN FINISHED AREAS, CONCEAL PIPES, DUCTS, AND WIRING WITHIN CONSTRUCTION.
- F. EXECUTE CUTTING, FITTING, AND PATCHING TO COMPLETE WORK, AND TO PROVIDE OPENINGS IN ELEMENTS OF WORK FOR PENETRATIONS OF MECHANICAL AND ELECTRICAL WORK. ARRANGE OPENINGS TO FIT SEVERAL PARTS TOGETHER, AND TO INTEGRATE WITH OTHER WORK. FIT WORK TIGHT TO ADJACENT ELEMENTS. MAINTAIN INTEGRITY OF WALL, CEILING, OR FLOOR CONSTRUCTION; COMPLETELY SEAL VOIDS. FIT WORK TIGHT TO PIPES, SLEEVES, DUCTS, CONDUIT, AND OTHER PENETRATIONS THROUGH SURFACES. REFINISH SURFACES TO MATCH ADJACENT FINISHES.
- G. AT PENETRATIONS OF FIRE-RATED WALLS, PARTITIONS, CEILING, OR FLOOR CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE-RATED MATERIAL TO FULL THICKNESS OF PENETRATED ELEMENT. CONDUIT PENETRATIONS SHALL BE SEALED WITH SEALANT RATED MINIMUM 2 HOURS FIRE BARRIER, SMOKE SEAL, SOUND BARRIER, UL 9069 LISTED, AND FM APPROVED. ACCEPTABLE PRODUCT 3M FIRE BARRIER SEALANT CP25WB+ OR APPROVED EQUAL.
- H. INSTALL IDENTIFYING NAMEPLATES ON ALL NEW EQUIPMENT. NAMEPLATE SHALL BE LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON WHITE CONTRASTING BACKGROUND COLOR. LETTERS SHALL BE 1/4" HIGH. THE NAMEPLATE SHALL HAVE A MINIMUM THICKNESS OF 1/8" AND BE ATTACHED TO THE EQUIPMENT WITH SUITABLE ADHESIVE.
- I. START UP SYSTEMS: ENSURE EACH PIECE OF EQUIPMENT OR SYSTEM IS READY FOR OPERATION. EXECUTE START-UP UNDER SUPERVISION OF RESPONSIBLE PERSONS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SUBMIT WRITTEN REPORT STATING EQUIPMENT OR SYSTEM HAS BEEN PROPERLY INSTALLED AND IS FUNCTIONING CORRECTLY.
- J. FINAL CLEANING: CLEAN INTERIOR AND EXTERIOR GLASS AND SURFACES EXPOSED TO VIEW; REMOVE TEMPORARY LABELS, STAINS, AND FOREIGN SUBSTANCES; POLISH TRANSPARENT AND GLOSSY SURFACES; AND VACUUM CARPETED AND SOFT SURFACES. CLEAN EQUIPMENT AND FIXTURES TO SANITARY CONDITION WITH APPROPRIATE CLEANING MATERIALS. REPLACE FILTERS OF OPERATING EQUIPMENT. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM SITE.

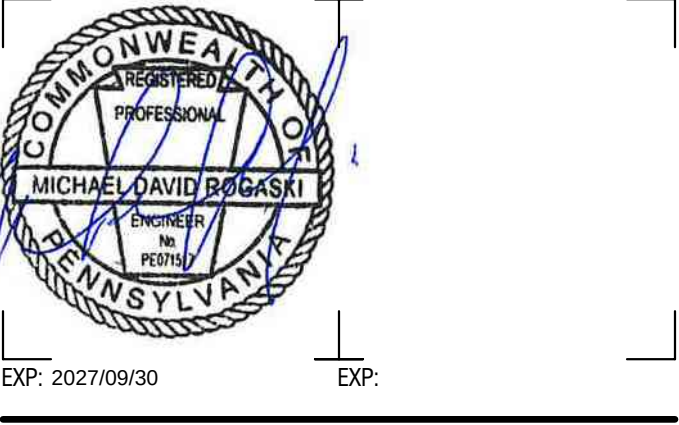
KEYED NOTES (#) :

- 1. DISCONNECT AND REMOVE EXISTING MOTOR CONTROL CENTER IN ITS ENTIRETY. RELOCATE ALL CIRCUITS TO NEW PANEL MDP1 UNLESS NOTED OTHERWISE.
- 2. DISCONNECT AND REMOVE THE EXISTING DISCONNECT SWITCH AND FEEDER FROM MCC. SEE DRAWING ED700 FOR DETAILS.
- 3. PROVIDE A NEW COMBINATION STARTER FOR THE EXISTING MOTOR. SEE DRAWING E700 FOR DETAILS.
- 4. DISCONNECT AND REMOVE EXISTING MOTOR CONTROL CENTER IN ITS ENTIRETY.
- 5. PROVIDE A NEW SERVICE ENTRANCE RATED FUSED DISCONNECT. SEE DRAWING E700 FOR DETAILS.
- 6. DISCONNECT AND REMOVE THE ALARM/CONTROL PANEL. THE SCADA INTEGRATOR SHALL PROVIDE A NEW COMPUTER GRAPHIC TO REPLACE THE PANEL'S ALARM AND CONTROL FUNCTIONS.
- 7. PROVIDE A NEW 42 CIRCUIT PANELBOARD. SEE DRAWING E501 FOR PANELBOARD SCHEDULE.
- 8. REPLACE PANEL PP WITH A NEW 42 CIRCUIT PANELBOARD. SEE DRAWING E501 FOR PANELBOARD SCHEDULE.
- 9. PROVIDE A NEW MAIN DISTRIBUTION PANEL. SEE DRAWING E700 FOR DETAILS.
- 10. PROVIDE INTERCOM PHONE WITH ALL ASSOCIATED CONDUIT WIRE REQUIRE IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL ASSOCIATED EQUIPMENT FOR A COMPLETE SYSTEM INCLUDING POE SWITCH, COMPUTER, ETC. PROVIDE 120V RECEPTACLES AS REQUIRED FOR SYSTEM. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER.



300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

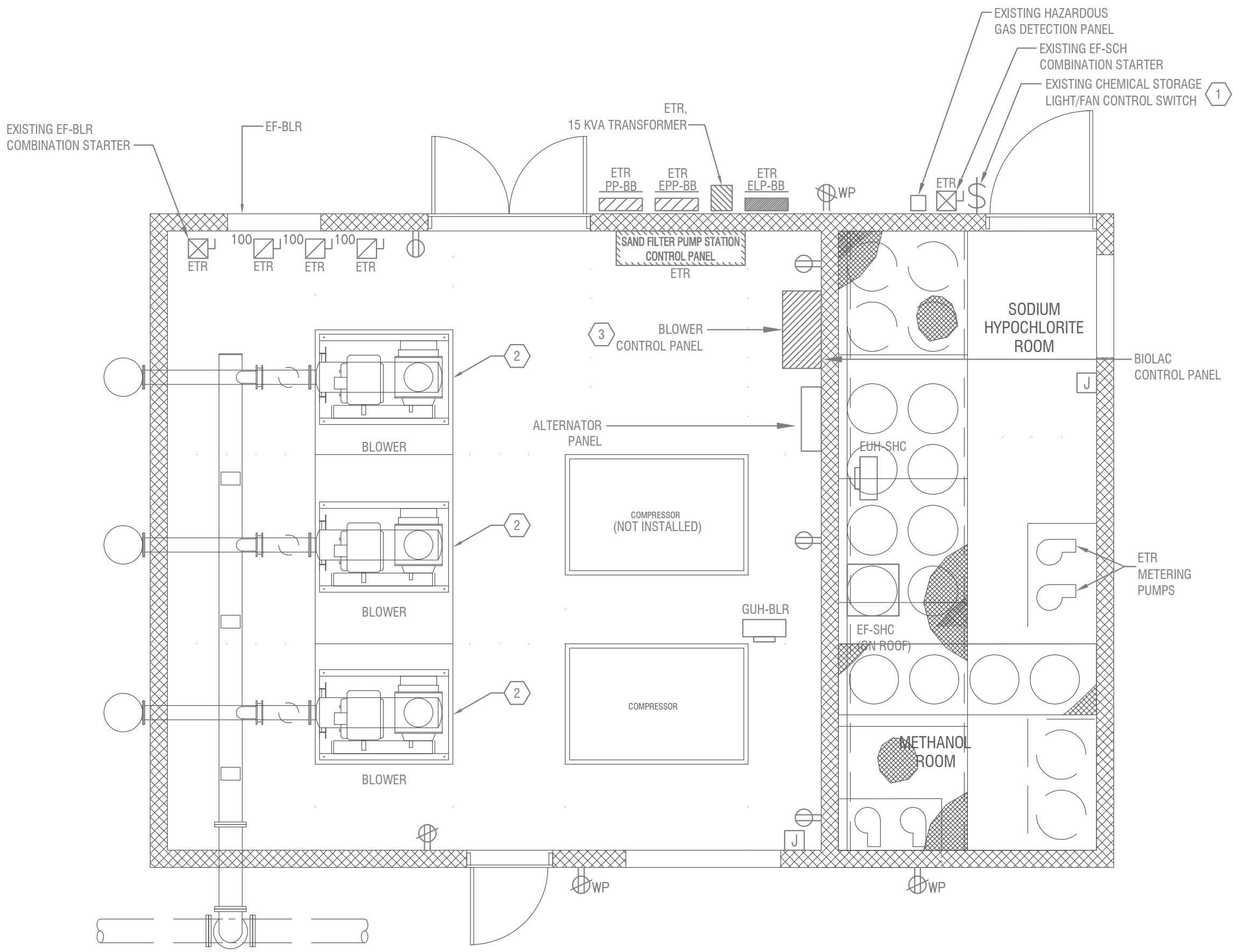
DRAWING NAME:

CONTROL BUILDING - ELECTRICAL

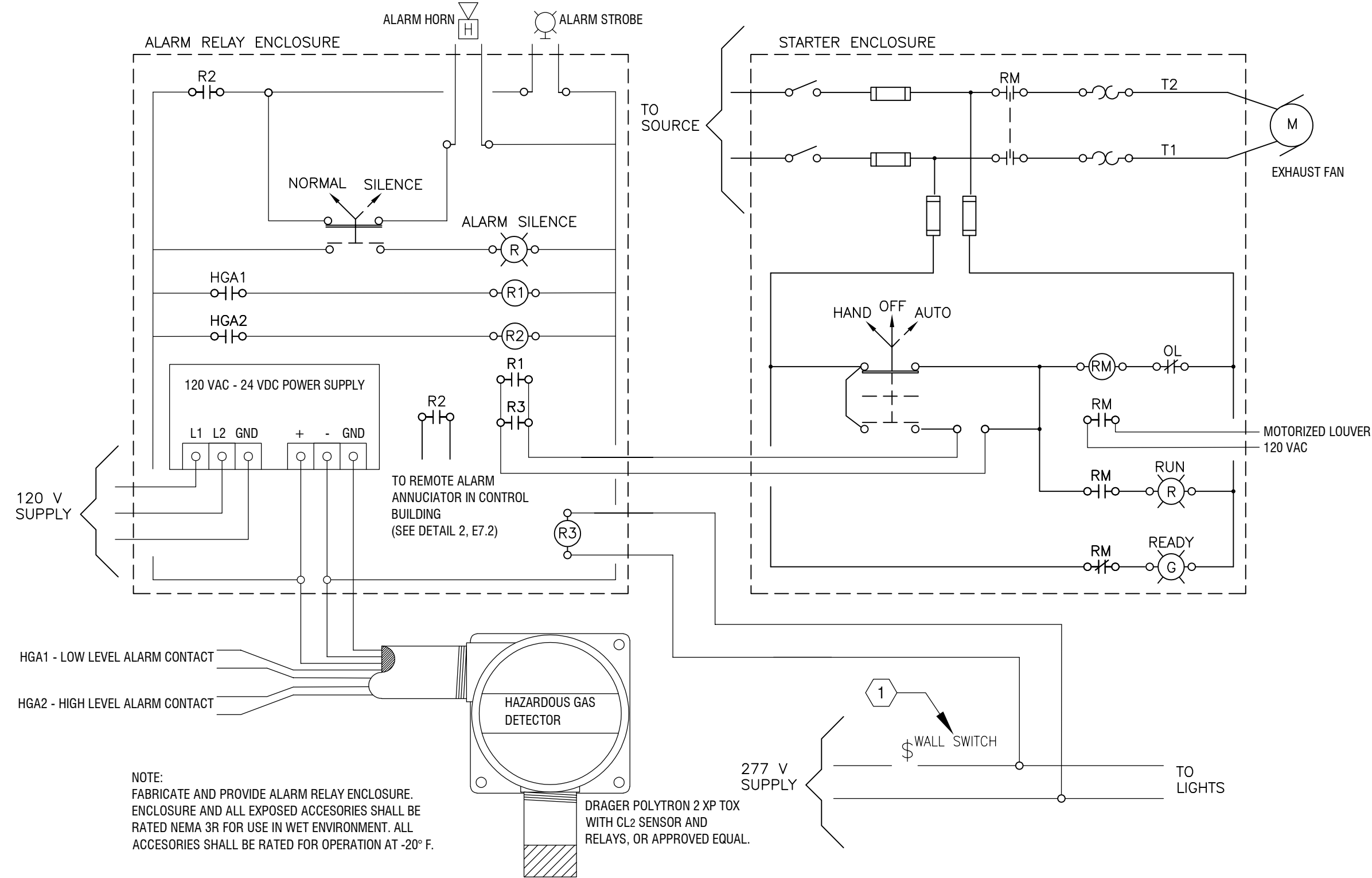
DRAWING NUMBER:

E101

11/17/2025 3:53:22 PM
\\cash.la\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06 Drawings\Electrical\E102 Blower Building.dwg



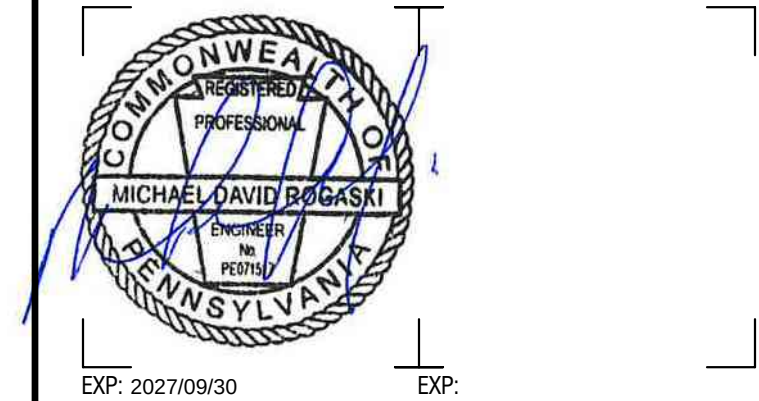
1 EXISTING BLOWER BUILDING - ELECTRICAL
E102 SCALE: 1/4" = 1'-0"



2 EXISTING CHEMICAL STORAGE VENTILATION CONTROL SCHEMATIC
E102 N.T.S.

KEYED NOTES (#):

1. VERIFY THE WIRING OF THE EXISTING EXHAUST FAN AND MAKE CORRECTIONS IF NECESSARY SUCH THAT THE HAZARDOUS GAS DETECTION AND LIGHT SWITCH OPERATE THE EXHAUST FAN.
2. THE BLOWER(S) SHALL BE REPLACED WITH NEW. THE EXISTING DISCONNECT SWITCHES SHALL BE REUSED.
3. THE EXISTING BREAKER(S), STARTER(S), AND OVERLOAD(S) IN THE BLOWER CONTROL PANEL FEEDING THE BLOWER MOTORS SHALL BE REMOVED BY THE SCADA INTEGRATOR. THE POWER WIRING TO THE STARTER(S) SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR. THE SCADA INTEGRATOR SHALL REFURBISH THE PLC AND CONTROLS AS REQUIRED. THE ENCLOSURE SHALL BE REUSED. SEE E0700 AND E700 FOR MORE DETAIL.



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

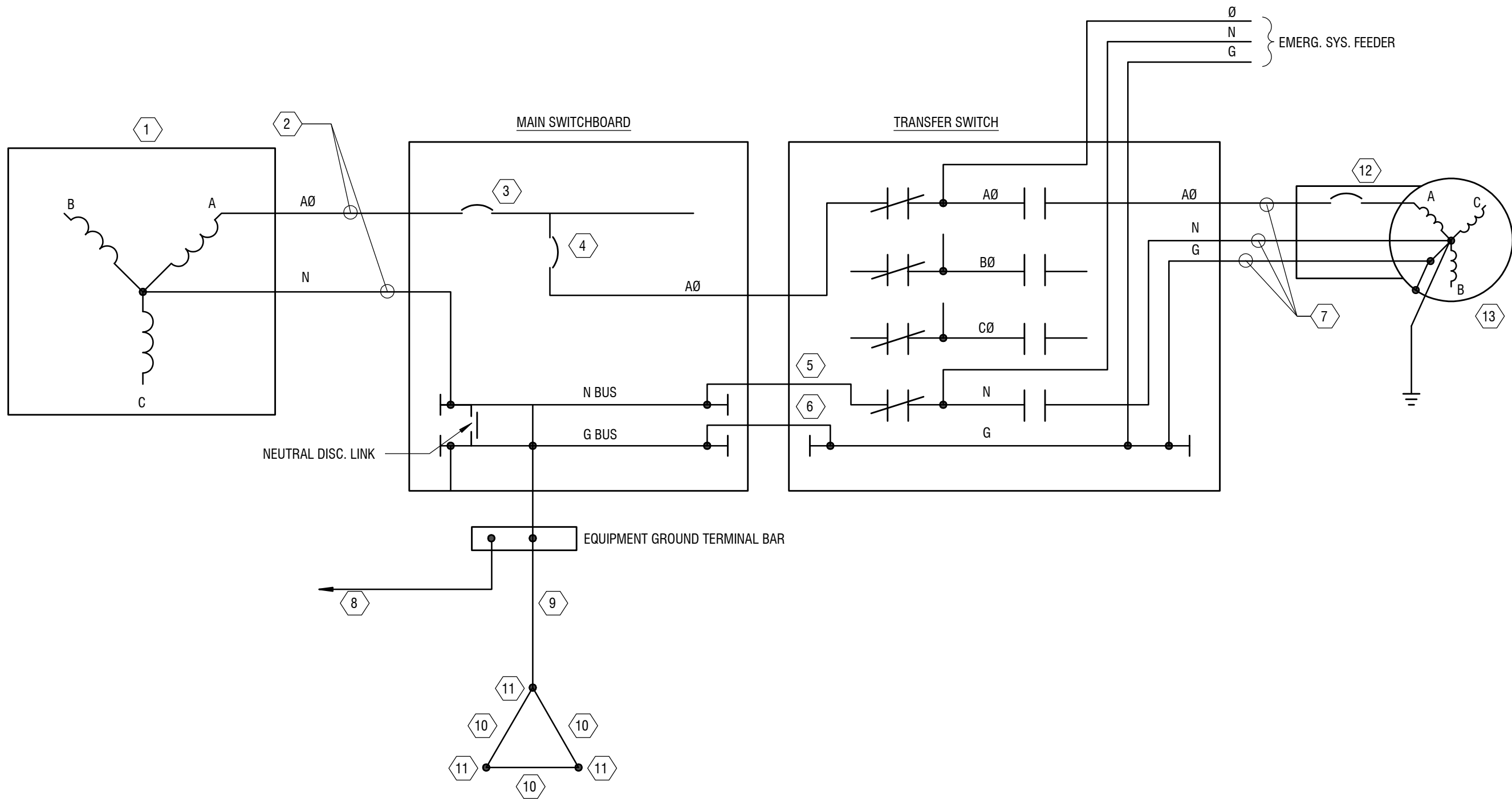
**BLOWER BUILDING -
ELECTRICAL**

DRAWING NUMBER:

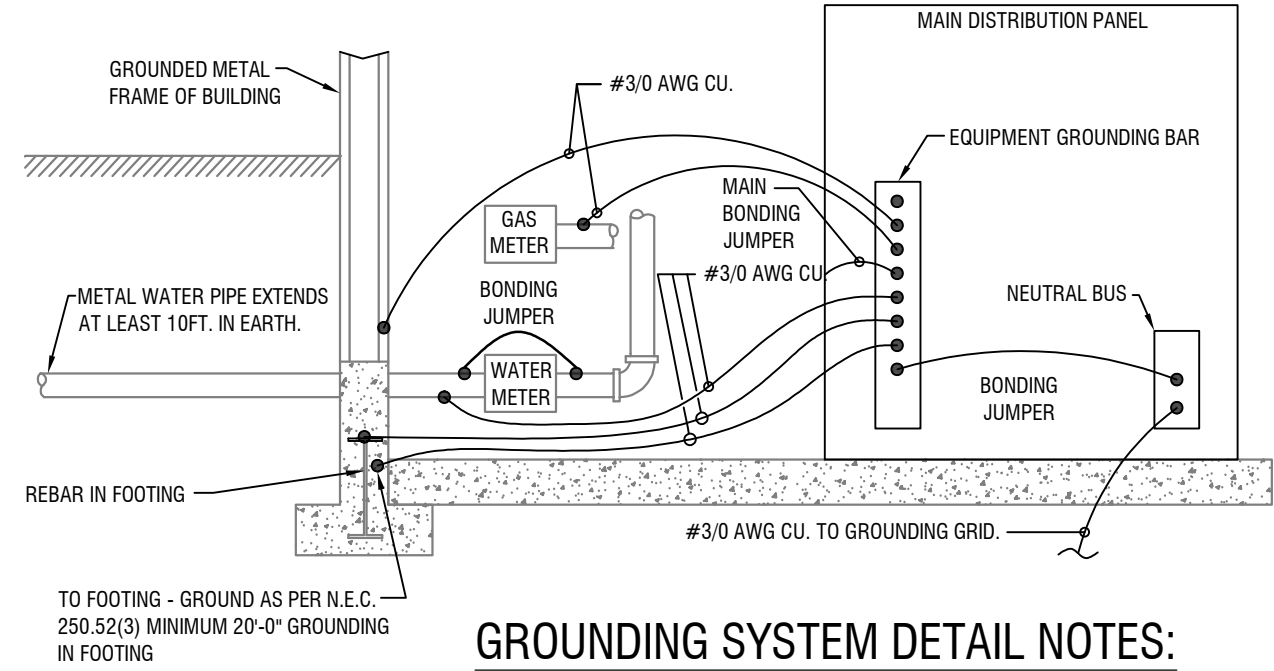
E102

KEYED NOTES :

- UTILITY COMPANY TRANSFORMER
- SECONDARY SERVICE CONDUCTORS
- SWITCHBOARD MAIN OVERCURRENT DEVICE
- SWITCHBOARD OVERCURRENT DEVICE
- EMERGENCY SYSTEM NEUTRAL
- EMERGENCY SYSTEM GROUND CONDUCTOR
- GENERATOR SUPPLY CONDUCTORS
- WATER SERVICE MAIN GROUND CONDUCTOR
- SUPPLEMENTAL GROUND CONDUCTOR
- GROUND COUNTERPOISE CONDUCTOR
- GROUND COUNTERPOISE GROUND ROD
- GENERATOR OUTPUT OVERCURRENT DEVICE
- EMERGENCY SYSTEM GENERATOR



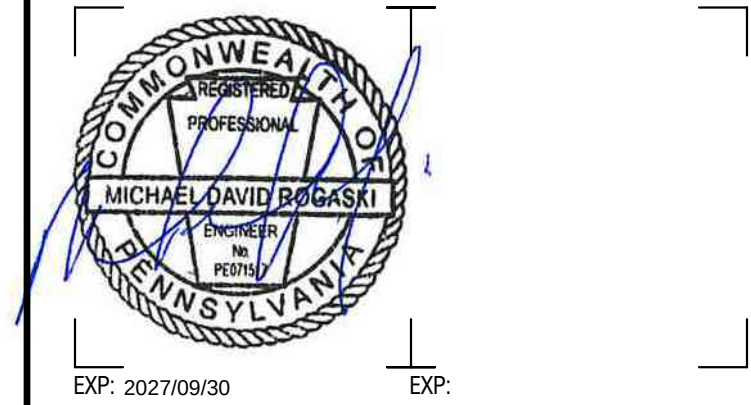
1
E500
TYPICAL GROUNDING SCHEMATIC
NOT TO SCALE



GROUNDING SYSTEM DETAIL NOTES:

- GROUNDING ELECTRODE SYSTEM TO BE INSTALLED PER ALL REQUIREMENTS OF N.E.C. ARTICLE 250.52
- SIZE ALL BONDING JUMPERS PER N.E.C. ARTICLE 250.

2
E500
TYPICAL GROUNDING SYSTEM DETAIL
NOT TO SCALE



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

ELECTRICAL DETAILS

DRAWING NUMBER:

E500

DESIGN BASE:
LOCATION: BLOWER BUILDING
BUS RATING: 225 Amps
MAIN: 100 Amp MCB
SERVICE ENTRANCE LABEL: NO

PANEL SCHEDULE

FULLY RATED AIC: 10 KAIC
SERVICE: 208/120V, 3Ø, 4W
MOUNTING: SURFACE
FED FROM: 3ØKVA TRANSFORMER
ENCLOSURE TYPE: NEMA 12/3R

PANEL 'PP' (NEW)

CKT.	LOAD DESIGNATION	BREAKER	L1 (VA)	L2 (VA)	L3 (VA)	BREAKER	LOAD DESIGNATION	CKT.
1	RECEPTACLES (EX)	20A/1P	1080	1260		20A/1P	RECEPTACLES (EX)	2
3	FANS 1A & 1B (EX)	20A/1P		500	1440	20A/1P	RECEPTACLES (EX)	4
5	LIGHTS & FANS ROOMS 105, 106 (EX)	20A/1P			1250	20A/1P	CIRCULATOR FURNACE ROOM 101 (EX)	6
7	GARAGE DOOR (EX)	20A/1P	1176	1000		20A/1P	INSTANT HOT WATER ROOM 100	8
9	HEATER ROOM 104 (EX)	20A/1P		528	1056	20A/1P	HEATERS ROOM 103 (EX)	10
11	SUMP PUMP (EX)	20A/1P			600	20A/1P	MOTORIZED DAMPERS GENERATOR CONTROL (EX)	12
13	INSTANT HOT WATER ROOM 103 (EX)	20A/1P	1000	1250		20A/2P	AIR CONDITIONING (EX)	14
15	NEW CHART RECORDER (EX)	20A/1P		-	1250			16
17	FUEL PUMP (EX)	20A/1P			500	20A/1P	CONTROL PANEL (EX)	18
19	FIRE & SECURITY PANEL ROOM 100 (EX)	20A/1P	400	1000		20A/1P	HEATER ROOM 101 (EX)	20
21	WATER COOLER ROOM 100 (EX)	20A/1P		660	-	20A/1P	CO DETECTOR ROOM 103 (EX)	22
23	EMERGENCY LIGHTING AND EXIT LIGHTS (EX)	20A/1P			835	20A/1P	EXHAUST FAN ROOM 104 (EX)	24
25	FAN RELAY FIRE CONTROL (EX)	20A/1P	-	-		20A/1P	TIME CLOCK OUTSIDE LIGHTS (EX)	26
27	SPARE	20A/1P		-	-	20A/1P	INFLUENT CHART RECORDER (EX)	28
29	SPARE	20A/1P			-	20A/1P	SPARE	30
31	SPARE	20A/1P	-	-		20A/1P	SPARE	32
33	SPARE	20A/1P		-	-	20A/1P	RECEPTACLES AT SLIDING GATE	34
35	SPARE	20A/1P			-	20A/1P	INTERCOM/PHONE	36
37	SPARE	30A/1P	-	-		20A/3P	SLIDING GATE	38
39	SPARE	60A/2P		-	-			40
41					-			42
TOTAL CONNECTED VA/LEG			###	###	###			
TOTAL CONNECTED KVA			###					
TOTAL CONNECTED AMPS								

NOTE: CIRCUITS MARKED (EX) ARE EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANELBOARD.

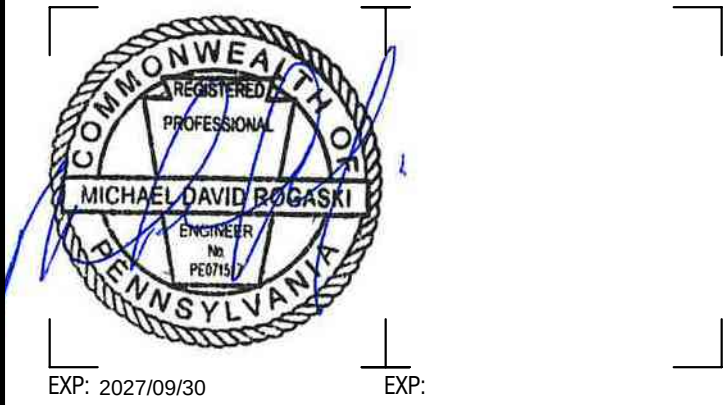
DESIGN BASE: SQUARE D			PANEL SCHEDULE			FULLY RATED AIC: 14 KAIC		
LOCATION: FILTER BUILDING						SERVICE: 480/277V, 3Ø, 4W		
BUS RATING: 225 Amps						MOUNTING: SURFACE		
MAIN: 200 Amp MCB						FED FROM: MDP-1		
SERVICE ENTRANCE LABEL: YES						ENCLOSURE TYPE: NEMA 12/3R		
PANEL 'LPP' (NEW)								
CKT.	LOAD DESIGNATION	BREAKER	L1 (VA)	L2 (VA)	L3 (VA)	BREAKER	LOAD DESIGNATION	CKT.
1	LIGHTING (EX)	20A/1P	2050	1260		20A/1P	EXTERIOR LIGHTING (EX)	2
3	LIGHTING (EX)	20A/1P		2400	-	20A/1P	SPARE	4
5	SPARE	20A/1P			- -	20A/1P	SPARE	6
7	SPARE	20A/1P	-	-		20A/1P	SPARE	8
9	SPARE	20A/1P		-	-	20A/1P	SPARE	10
11	SPARE	20A/1P			- -	20A/1P	SPARE	12
13	-	20A/1P	-	-		20A/1P	-	14
15	-	20A/1P		-	-	20A/1P	-	16
17	-	20A/1P			- -	20A/1P	-	18
19	-	20A/1P	-	-		20A/1P	-	20
21	-	20A/1P		-	-	20A/1P	-	22
23	-	20A/1P			- -	20A/1P	-	24
25	-	20A/1P	-	-		20A/1P	-	26
27	-	20A/1P		-	-	20A/1P	-	28
29	-	20A/1P			- -	20A/1P	-	30
31	-	20A/1P	-	-		20A/1P	-	32
33	-	20A/1P		-	-	20A/1P	-	34
35	-	20A/1P			- -	20A/1P	-	36
37	-	20A/1P	-	-		20A/1P	-	38
39	-	20A/1P		-	-	20A/1P	-	40
41	-	20A/1P			- -	20A/1P	-	42
TOTAL CONNECTED VA/LEG			###	###	###			
TOTAL CONNECTED KVA			###					
TOTAL CONNECTED AMPS								

NOTE: CIRCUITS MARKED (EX) ARE EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANELBOARD.



300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: _____

REVIEWED BY:

ISSUED FOR:

DATE: NOVEMBER 2025

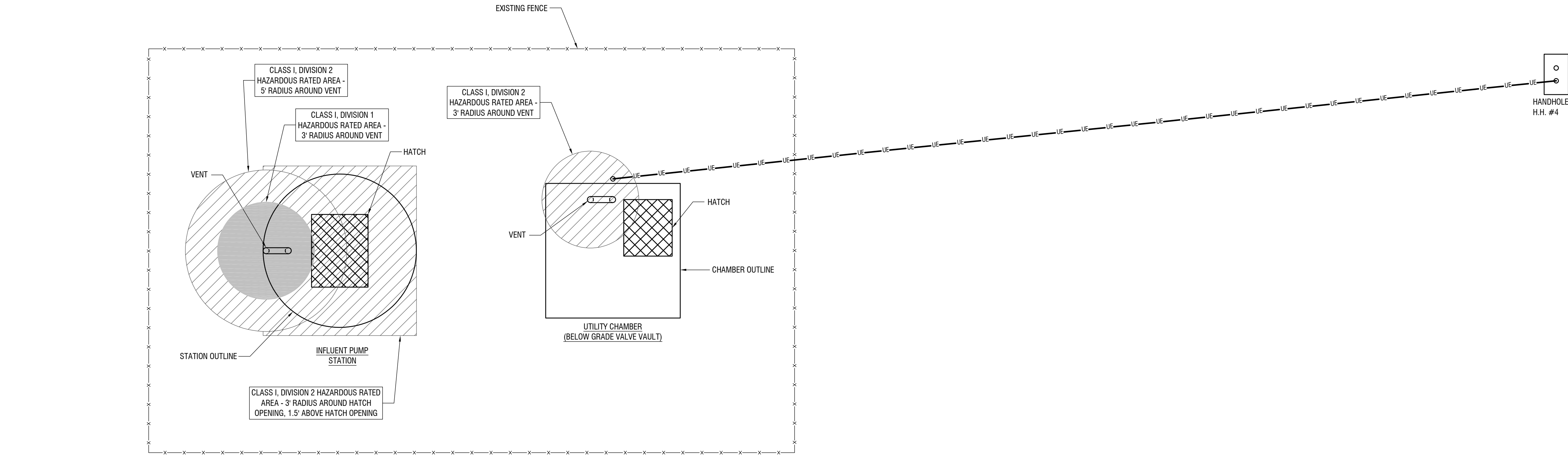
DRAWING NAME

ELECTRICAL DETAILS

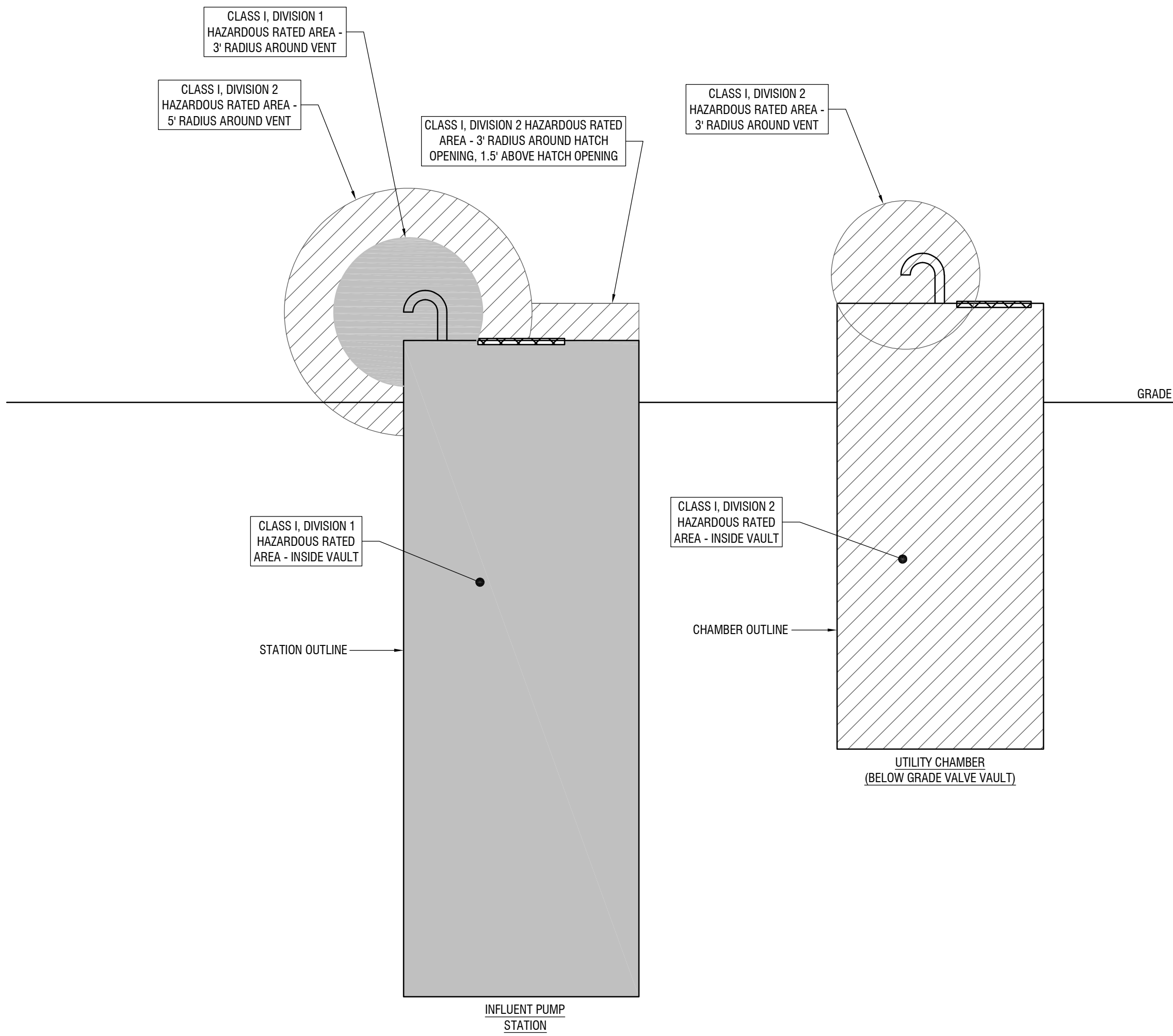
DRAWING NUMBER:

E501

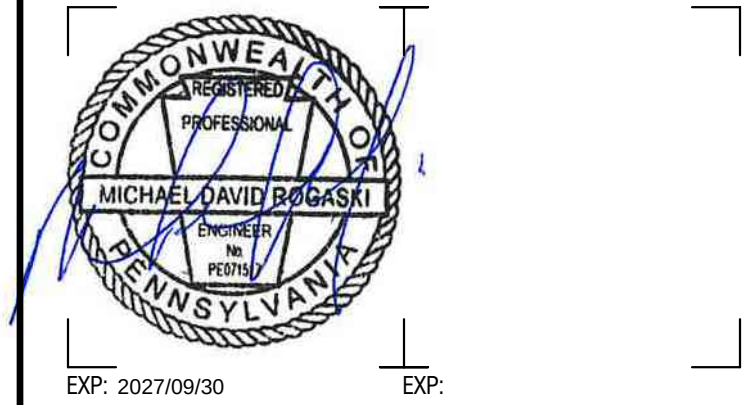
11/17/2025 4:08:56 PM
\\cash.la01\Projects\Elkland\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06_Drawings\Electrical\E502 Influent Pump Station Area Classification.dwg



PLAN VIEW



ELEVATION VIEW



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

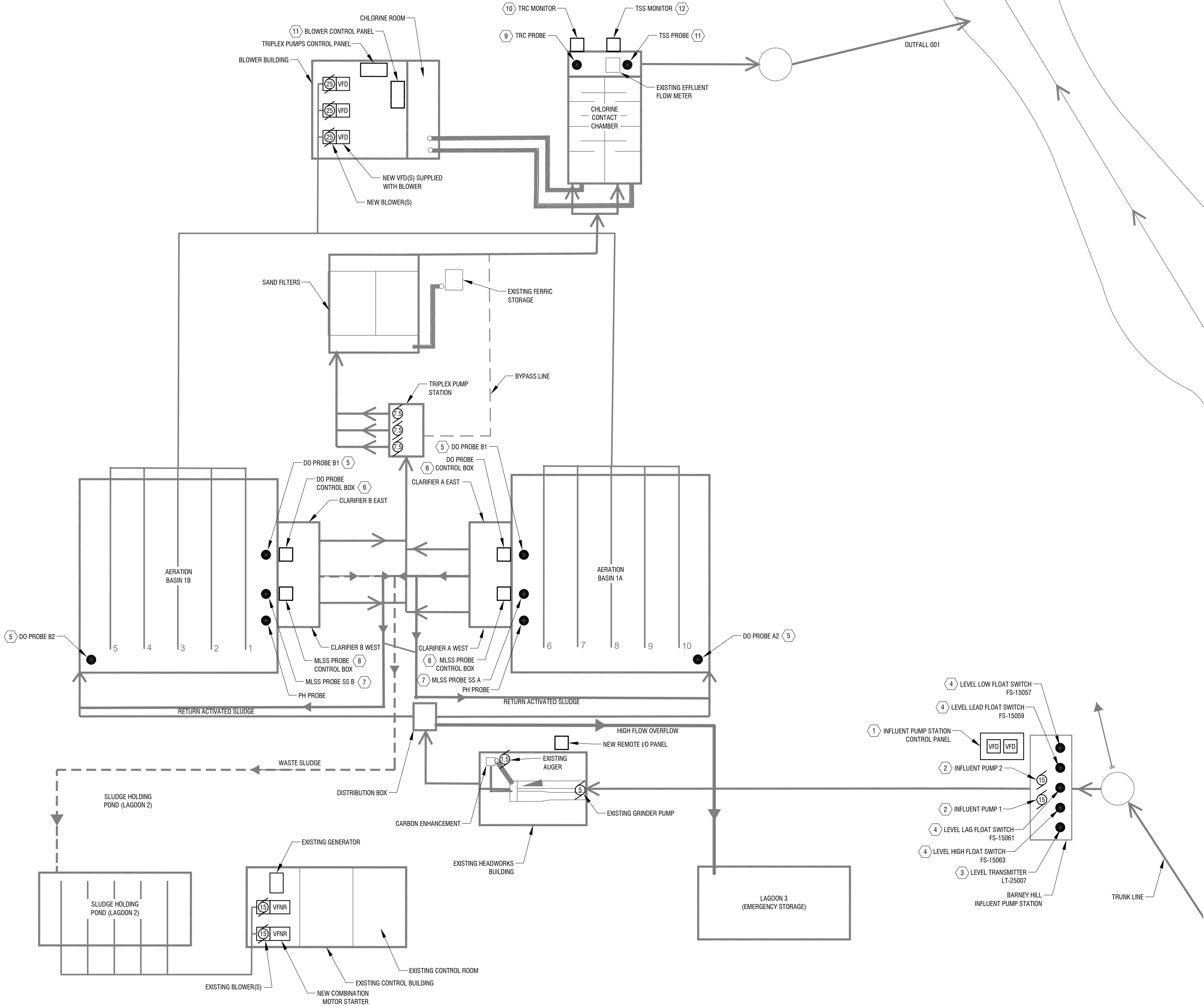
PROJECT NUMBER:		2242861
DRAWN BY:		BTM
REVIEWED BY:		TBZ
ISSUED FOR:		BID
DATE:		NOVEMBER 2025
DRAWING NAME:		

INFLUENT PUMP STATION - AREA CLASSIFICATION

DRAWING NUMBER:

E502

11/18/2025 11:02:44 AM
\\cash.la\p\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06 Drawings\Electrical\E503 Process Control Block Diagram.dwg



GENERAL NOTES:

A. REFER TO MARTZ TECHNOLOGIES, INC. DRAWINGS FOR SCADA INTEGRATION WIRING.

KEYED NOTES (#):

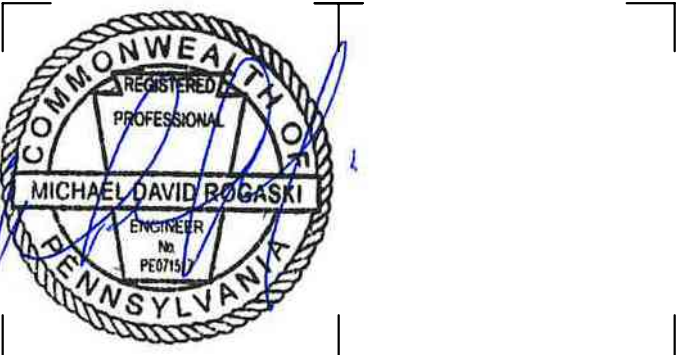
1. THE SCADA INTEGRATOR SHALL SUPPLY A NEW CONTROL PANEL FOR THE BARNEY HILL INFLUENT PUMP STATION. THE ELECTRICAL CONTRACTOR (EC) SHALL INSTALL THE NEW CONTROL PANEL AND LOOSE ITEMS SUPPLIED BY THE SCADA INTEGRATOR.
2. THE EC SHALL WIRE THE EXISTING INFLUENT PUMPS TO THE NEW VARIABLE FREQUENCY DRIVES (VFD) LOCATED IN THE NEW INFLUENT PUMP STATION CONTROL PANEL. ALSO, THE E.C. SHALL PROVIDE CONTROL WIRING FROM THE PUMP MOTOR SEAL FAILURE PROBE AND THE MOTOR THERMAL SWITCH TO THE INFLUENT PUMP STATION CONTROL PANEL.
3. THE EC SHALL INSTALL THE NEW LEVEL TRANSMITTER PROVIDED BY THE SCADA INTEGRATOR. WIRE TO THE NEW INFLUENT PUMP STATION CONTROL PANEL.
4. THE EC SHALL INSTALL THE NEW FLOAT SWITCHES PROVIDED BY THE SCADA INTEGRATOR. WIRE TO THE NEW INFLUENT PUMP STATION CONTROL PANEL.
5. THE EC SHALL INSTALL THE NEW DISSOLVED OXYGEN (DO) PROBE AND WIRE TO THE ASSOCIATED BLOWER CONTROL PANEL.
6. THE EC SHALL SUPPLY AND INSTALL ALL CONDUIT AND WIRE FROM THE DO CONTROL BOX TO THE BLOWER CONTROL PANEL.
7. THE EC SHALL INSTALL THE NEW MIXED LIQUOR SUSPENDED SOLIDS (MLSS) PROBE AND WIRE TO THE ASSOCIATED CONTROL BOX.
8. THE EC SHALL SUPPLY AND INSTALL ALL CONDUIT AND WIRE FROM THE MLSS CONTROL BOX TO THE BLOWER BUILDING CONTROL PANEL.
9. THE EC SHALL INSTALL THE NEW TOTAL RESIDUAL CHLORINE (TRC) PROBE AND WIRE TO THE ASSOCIATED TRC MONITOR.
10. THE EC SHALL SUPPLY AND INSTALL ALL CONDUIT AND WIRE FROM THE TRC MONITOR TO THE BLOWER BUILDING CONTROL PANEL.
9. THE EC SHALL INSTALL THE NEW TOTAL SUSPENDED SOLIDS (TSS) PROBE AND WIRE TO THE ASSOCIATED TSS MONITOR.
10. THE EC SHALL SUPPLY AND INSTALL ALL CONDUIT AND WIRE FROM THE TSS MONITOR TO THE BLOWER BUILDING CONTROL PANEL.
11. SCADA INTEGRATOR TO REFURBISH THE EXISTING BLOWER CONTROL PANEL TO CONTROL THE NEW BLOWERS AND PROVIDE I/O CONTROL POINT.

LEGEND

- SEWER LINE
- SLUDGE LINE
- CHLORINE LINE
- FERRIC CHLORIDE LINE
- CHEMICAL PUMP
- PROCESS PUMP
- INSTRUMENT
- INSTRUMENT PANEL
- VARIABLE SPEED DRIVE

300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities**
**115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

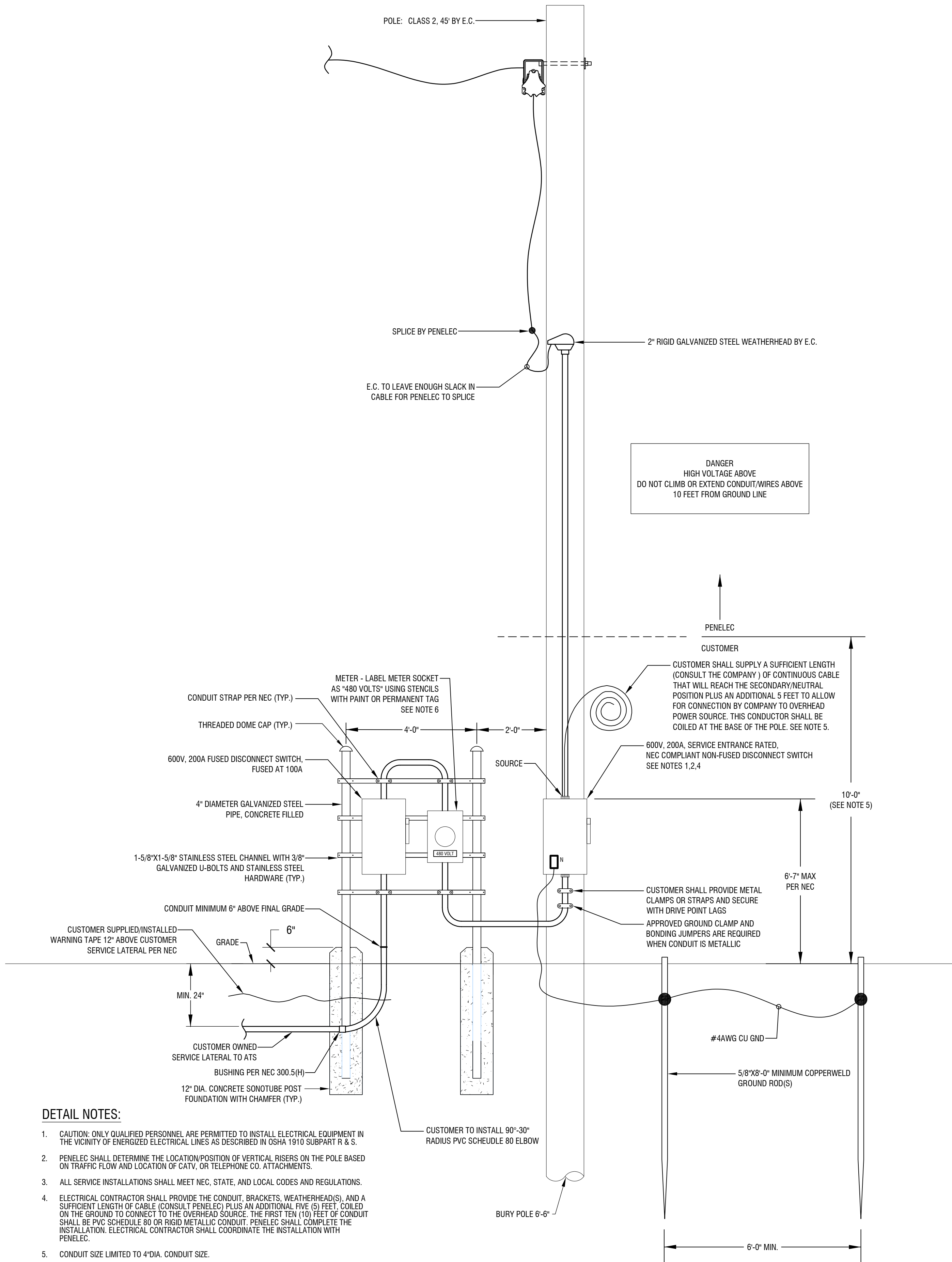
DRAWING NAME:

PROCESS CONTROL BLOCK DIAGRAM

DRAWING NUMBER:

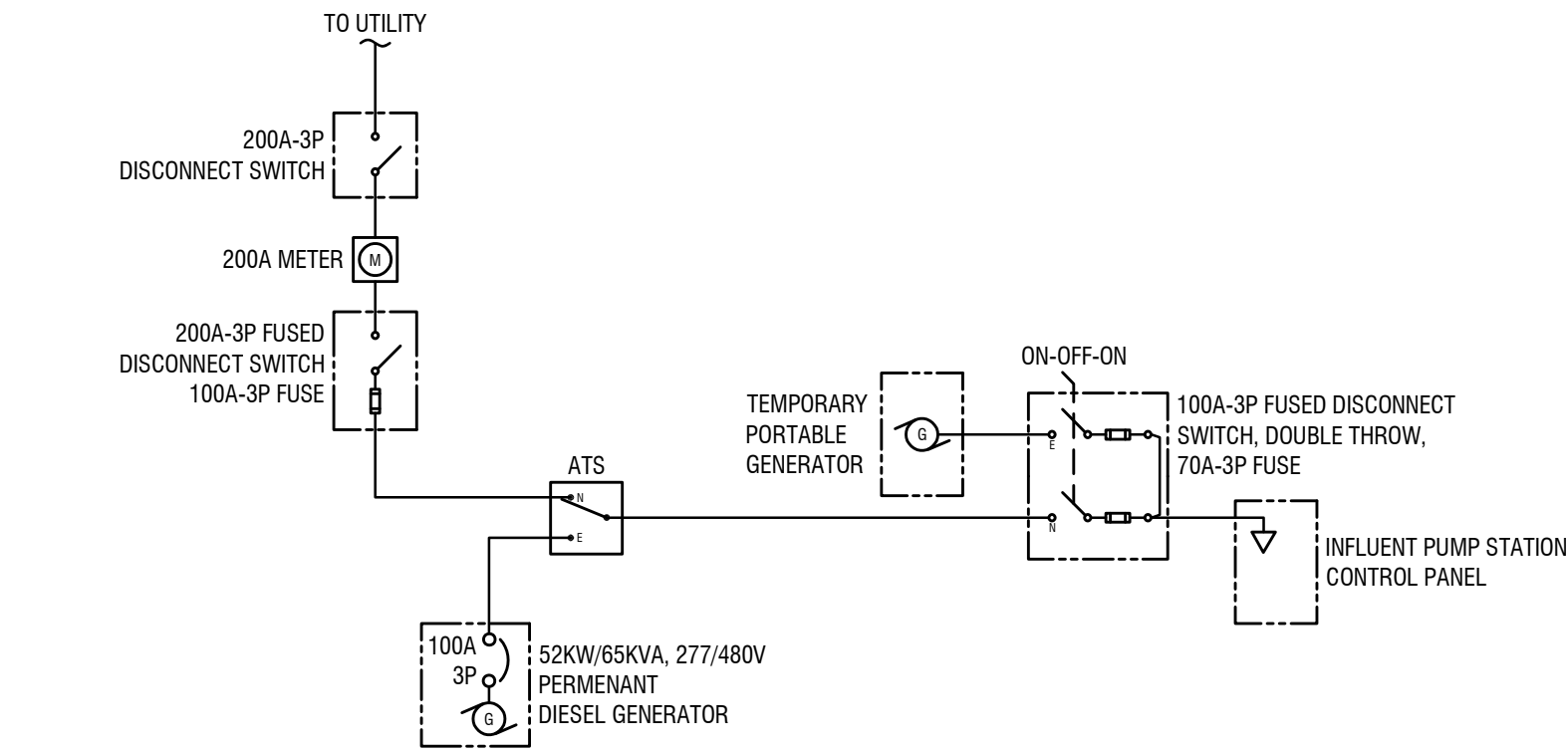
E503

11/18/2025 3:16:48 PM
\\cash.la.bella.com\Projects\Elkland Borough\2242861 - WWTTP Consent Order Improvements\06_Drawings\Electrical\E504 Influent Pump Station Details.dwg



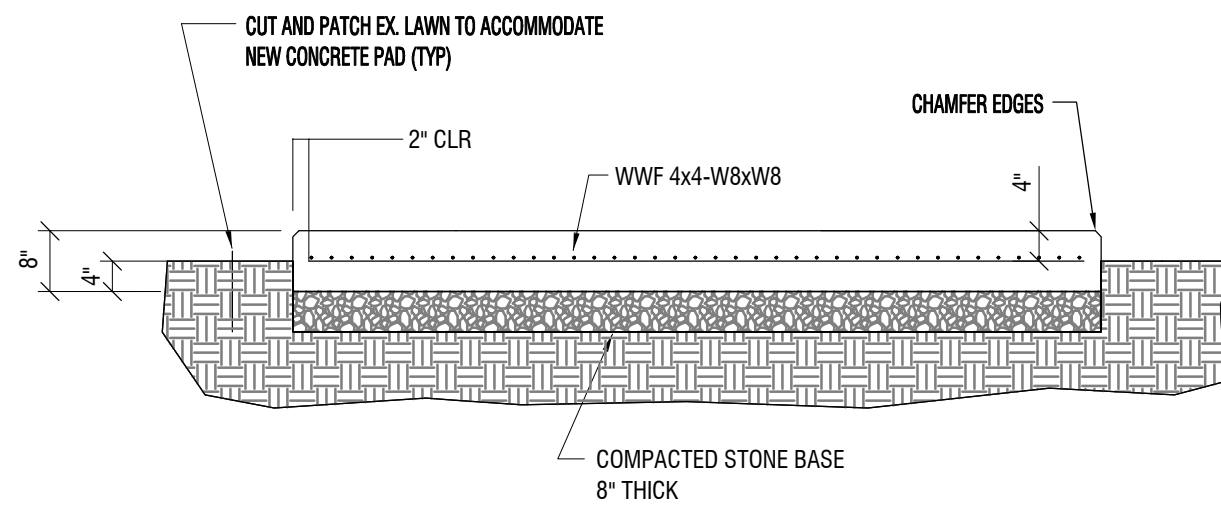
1
E504 NOT TO SCALE

SERVICE DISCONNECT/METER POLE DETAIL



4
E504 NOT TO SCALE

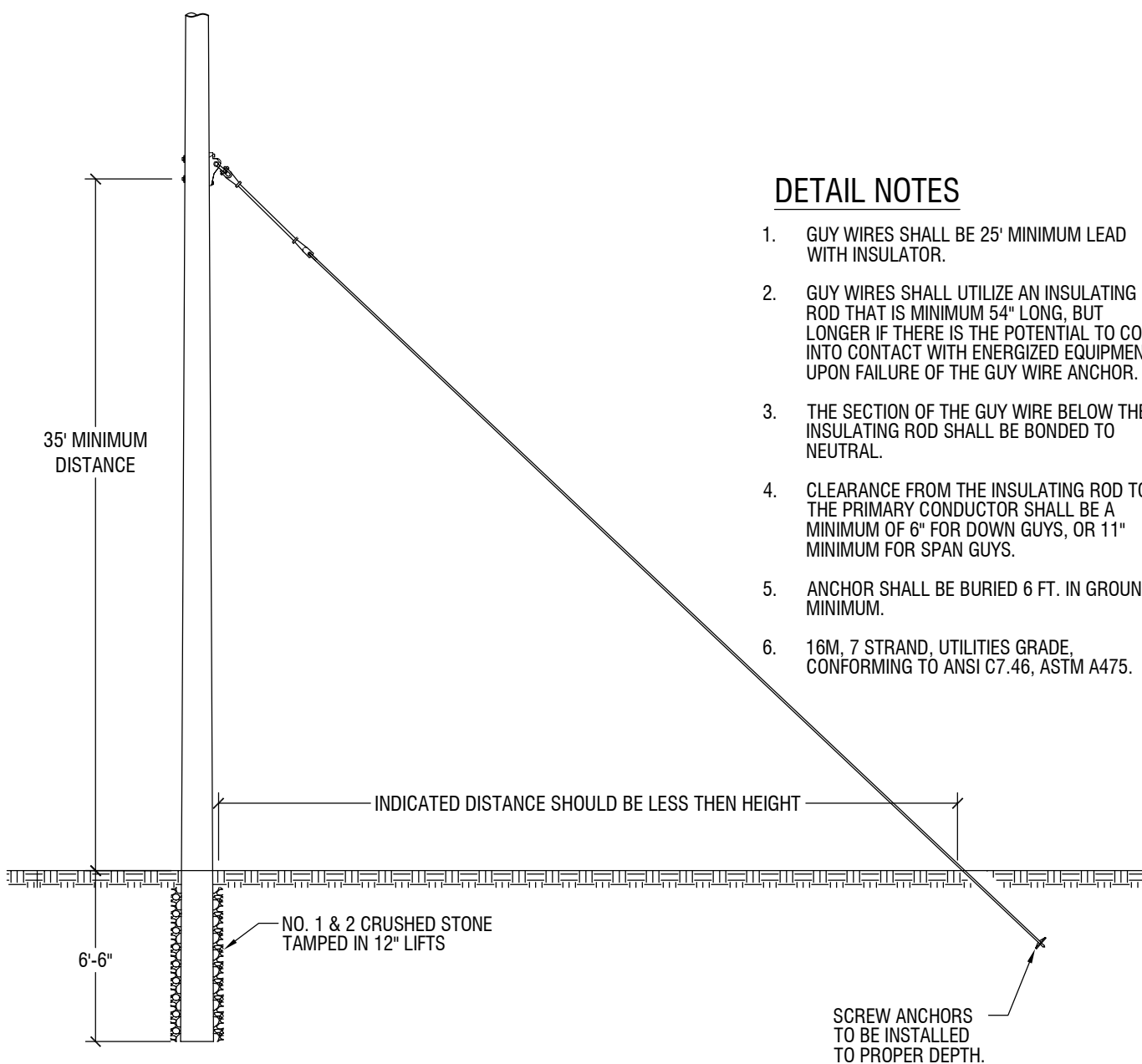
ONE-LINE DIAGRAM - INFLUENT PUMP STATION



LONGITUDINAL SECTION

3
E504 NOT TO SCALE

GENERATOR PAD DETAIL - INFLUENT PUMP STATION



2
E504 NOT TO SCALE

GUY WIRE DETAIL

GENERATOR PAD DETAIL NOTES:

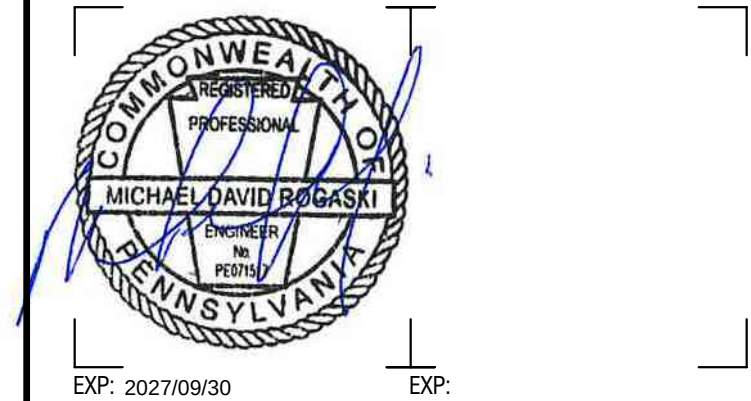
- EXACT SIZE OF GENERATOR PAD TO BE DETERMINED AFTER APPROVED GENERATOR SUBMITTAL.
- CONCRETE STRENGTH: USE 5000psi CONCRETE. GENERATOR SHALL NOT BE INSTALLED UNTIL CONCRETE HAS CURED FOR A MINIMUM OF 3 DAYS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, F_y=65,000 psi, AND SHALL BE HOT-DIPPED GALVANIZED OR EPOXY COATED AFTER FABRICATION TO PRODUCE A CLASS 2 COATING EQUAL TO THAT SPECIFIED IN ASTM A641, TABLE 1.
- DRILL AND SET ANCHOR BOLTS IN FIELD AFTER INSTALLATION OF GENERATOR ON FOOTING AND AS PER MANUFACTURER'S SPECIFICATIONS.
- LOCATION OF PAD SHALL BE APPROVED BY THE OWNER BEFORE CONSTRUCTION.
- COMPACTED STONE SHALL BE AASHTO 57 COARSE AGGREGATE.
- CONDUIT REQUIREMENTS SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE PLACED INTO POSITION BEFORE CASTING CONCRETE PAD.
- ANCHOR BOLTS SHALL BE 1/2\"/>

DETAIL NOTES

- GUY WIRES SHALL BE 25' MINIMUM LEAD WITH INSULATOR.
- GUY WIRES SHALL UTILIZE AN INSULATING ROD THAT IS MINIMUM 54\"/>

300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities
115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

**INFLUENT PUMP STATION
DETAILS**

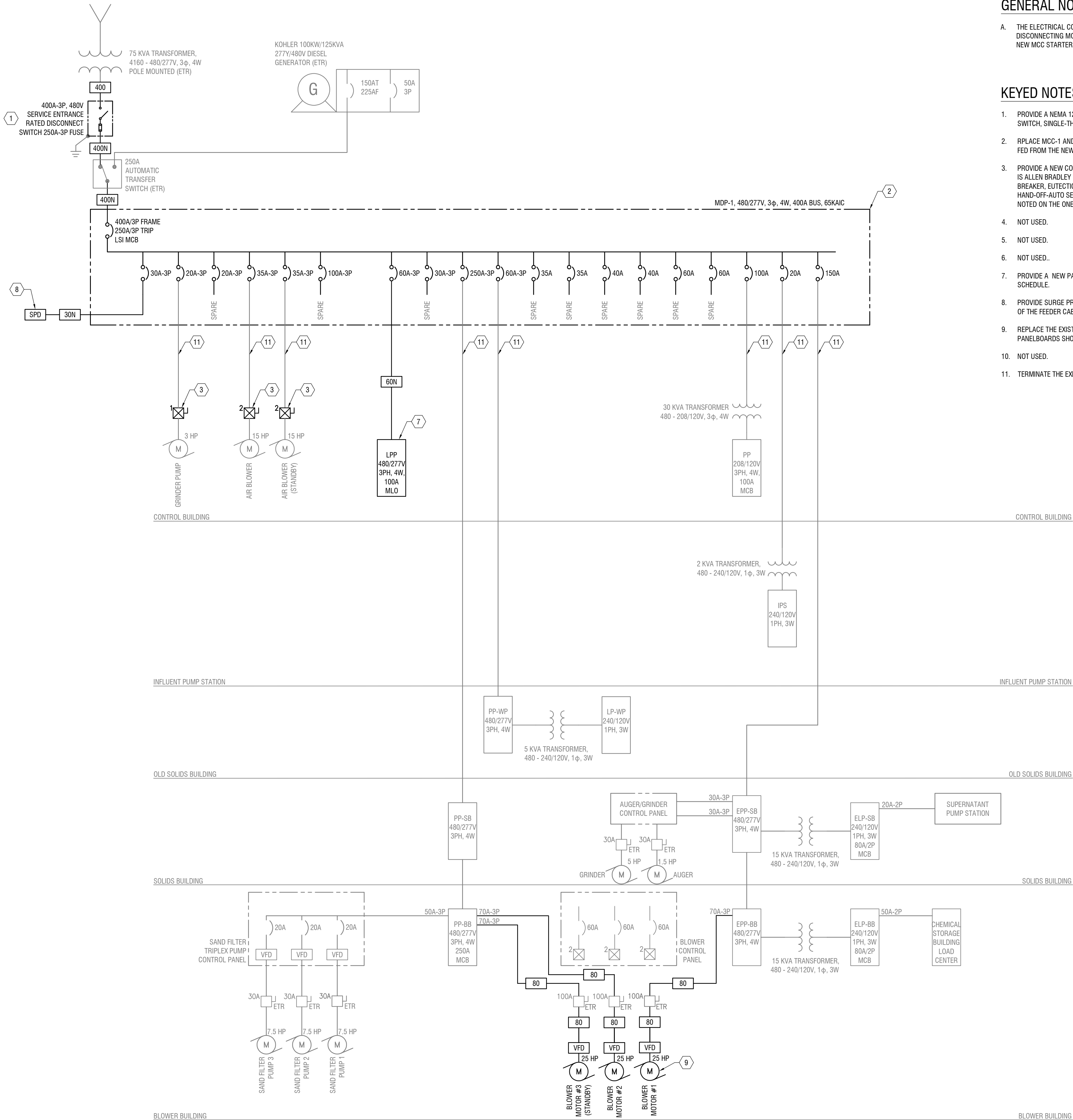
DRAWING NUMBER:

E504

11/19/2025 8:10:33 AM
\\cash.la.b\Projects\Elkland Borough\2242861 - WWTp Consent Order Improvements\06_Drawings\Electrical\E700.dwg

LOW VOLTAGE FEEDER SCHEDULE (UNDER 600V)		
SYMBOL	DESCRIPTION	
30	3-#10 Cu. 1-#10 GRND. Cu.	1" C.
30N	4-#10 Cu. 1-#10 GRND. Cu.	1" C.
60N	4-#4 Cu. 1-#10 GRND. Cu.	1-1/2" C.
80	3-#4 Cu. 1-#10 GRND. Cu.	1-1/2" C.
150	3-#2/0 Cu. 1-#4 GRND. Cu.	2" C.
400	[2] 4-#3/0 Cu.	[2] 2-1/2" C.
400N	[2] 4-#3/0 Cu. [2] 1-#3 GRND. Cu.	[2] 2-1/2" C.
[#] - INDICATES NUMBER OF CONDUIT RUNS CONTAINING THE FOLLOWING WIRING AS SHOWN.		

CONDUIT SIZE SHOWN IS THE MINIMUM SIZE ALLOWED.

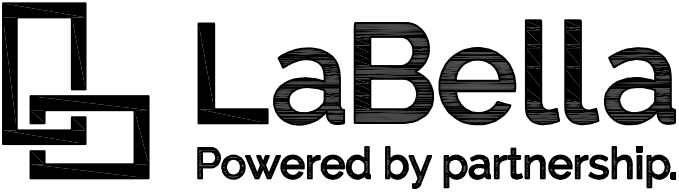


GENERAL NOTES:

- A. THE ELECTRICAL CONTRACTOR SHALL DOCUMENT ALL MOTOR CONTROL WIRING PRIOR TO DISCONNECTING MOTORS FROM THE MCC. RECONNECT THE MOTOR CONTROL WIRING TO THE NEW MCC STARTER, SOFT START DRIVE, OR VARIABLE SPEED DRIVE AS SHOWN.

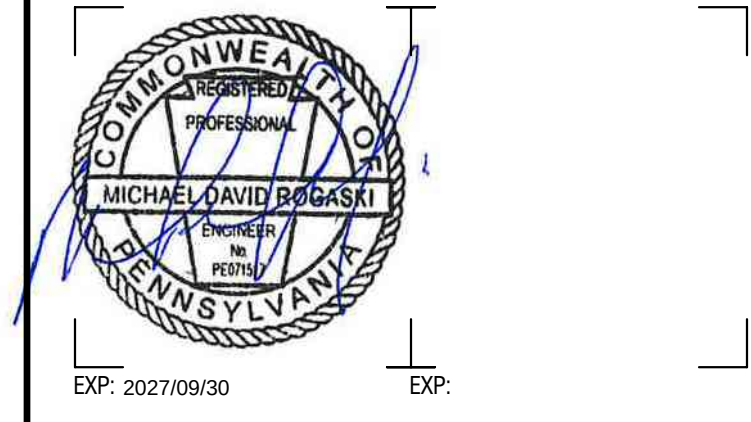
KEYED NOTES :

- PROVIDE A NEMA 12 RATED SERVICE ENTRANCE RATED HEAVY-DUTY, FUSIBLE DISCONNECT SWITCH, SINGLE-THROW, 480V, 3-POLE, WITH SOLID NEUTRAL.
- RPLCE MCC-1 AND MCC-2 WITH NEW DISTRIBUTION PANEL. ALL EXISTING LOADS SHALL BE FED FROM THE NEW PANELBOARD. NEW MDP BASIS OF DESIGN IS: EATON PRL4X, 60 CIRCUIT.
- PROVIDE A NEW COMBINATION STARTER TO CONTROL THE EXISTING MOTOR. BASIS OF DESIGN IS ALLEN BRADLEY BULLETIN 513. SUPPLY WITH ADJUSTABLE INSTANTANEOUS TRIP CIRCUIT BREAKER, EUTECTIC ALLOY OVERLOAD RELAY, 120VAC CONTROL VOLTAGE TRANSFORMER, HAND-OFF-AUTO SELECTOR SWITCH, RUN PILOT LIGHT, NEMA 1 ENCLOSURE. STARTER SIZE AS NOTED ON THE ONE-LINE DIAGRAM.
- NOT USED.
- NOT USED.
- NOT USED..
- PROVIDE A NEW PANELBOARD, EXTERNAL TO THE MCC. SEE DRAWING E600 FOR PANEL SCHEDULE.
- PROVIDE SURGE PROTECTION DEVICE ADJACENT TO THE PANELBOARD. MINIMIZE THE LENGTH OF THE FEEDER CABLES. BASIS OF DEDESIGN: EATON SPD SERIES.
- REPLACE THE EXISTING BLOWER WITH NEW. FEED THE NEW BLOWERS FROM THE EXISTING PANELBOARDS SHOWN.
- NOT USED.
- TERMINATE THE EXISTING CONDUIT/CONDUCTORS TO THE NEW MDP-1.



300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates



**Borough of Elkland
Wastewater Treatment
Facilities**
**115 Ellison Road
Elkland, PA 16920**

115 Ellison Road
Elkland, PA 16920

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242861

DRAWN BY: BTM

REVIEWED BY: TBZ

ISSUED FOR: BID

DATE: NOVEMBER 2025

DRAWING NAME:

**ONE-LINE DIAGRAM -
NEW WORK**

DRAWING NUMBER:

E700

