TOWN OF WESTPORT
WADHAMS SEWER DISTRICT

WADHAMS WWTP IMPROVEMENTS

CONTRACT 1G - GENERAL CONSTRUCTION
CONTRACT 1E - ELECTRICAL CONSTRUCTION

DRAWING LIST

CONTRACT 1G - GENERAL CONSTRUCTION

GENERAL

G-001	COVER SHEET
G-002	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SEQUENCE OF CONSTRUCTION
G-003	PROCESS, INSTRUMENTATION AND CONTROL DIAGRAM
G-004	HYDRAULIC PROFILE

CIVIL

C-100	EXISTING CONDITIONS AND REMOVALS PLAN
C-200	OVERALL WWTP SITE PLAN
C-210	ENLARGED SITE PLAN
C-300	DOSING TANK PLAN, SECTION AND DETAILS
C-310	SAND FILTERS SECTION AND DETAILS
C-320	EFFLUENT PUMP STATION PLAN, SECTION AND DETAILS
C-330	UV DISINFECTION PLAN, SECTION AND DETAILS
C-400	SAND FILTER EFFLUENT AND OUTFALL SEWER PROFILES
C-500	SITE DETAILS 1
C-501	SITE DETAILS 2
C-502	SITE DETAILS 3

ARCHITECTURAL

A-100	UV DISINFECTION BLDG FLOOR PLAN AND ELEVATIONS
A-101	UV DISINFECTION BLDG SECTIONS, DETAIL AND DOOR SCHEDULE

STRUCTURAL

S-001	UV DISINFECTION BLDG GENERAL NOTES
S-101	UV DISINFECTION BLDG FOUNDATION PLAN
S-301	UV DISINFECTION BLDG FOUNDATION SECTIONS AND DETAILS
S-302	UV DISINFECTION BLDG FOUNDATION SECTIONS AND DETAILS
S-303	UV DISINFECTION BLDG TYPICAL DETAILS

CONTRACT 1E - ELECTRICAL

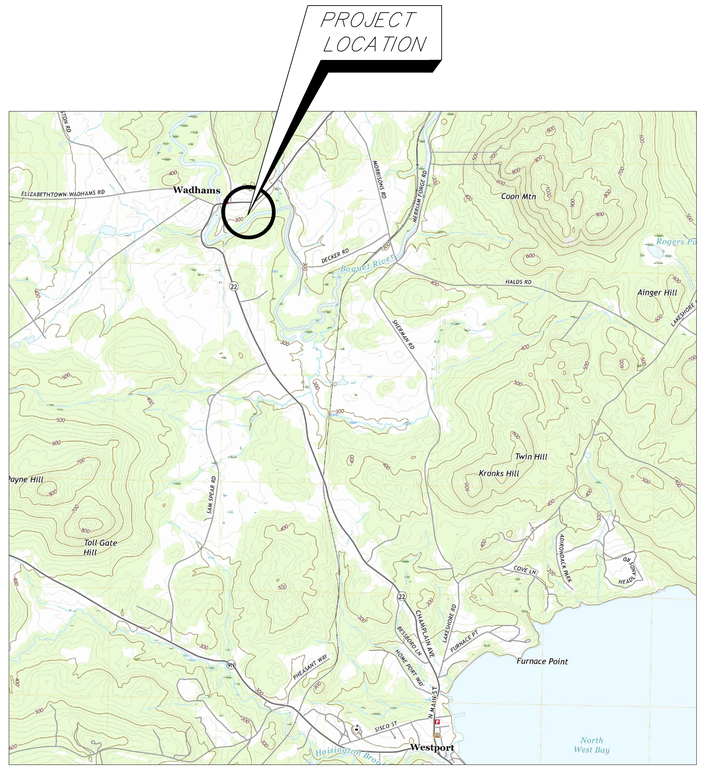
HVAC

M-100	UV DISINFECTION BLDG HVAC PLAN, DETAILS AND SCHEDULES

ELECTRICAL

E-001	ELECTRICAL GENERAL INFORMATION, SCHEDULES AND DETAILS
ES-101	ELECTRICAL SITE PLAN, REMOVALS AND NEW WORK
E-101	ELECTRICAL NEW WORK FLOOR PLANS UV DISINFECTION BUILDING

DECEMBER 2020



LOCATION PLAN

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

MICHAEL D. PATRICELLI — LICENSED PROFESSIONAL ENGINEER — 074751 — STATE OF NEW YORK

DATE

DATE

Engineering and Land Surveying, P.C.
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TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

COVER SHEET

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

G-001

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\G-001 Title Sheet.dwg (Layout: G-001)
Date: Tue, Dec 15, 2020 - 11:10 AM (Name: mdrislane)

SITE PLAN LEGEND:

EXISTING

- IRON ROD
- CONCRETE MONUMENT
- SINGLE POST SIGN
- DOUBLE POST SIGN
- DELINEATOR
- TELEPHONE PEDESTAL
- ELECTRIC METER
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- UNDERGROUND VALVE W/ VALVE BOX
- HANGING CONDUIT
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE STUMP
- SANITARY MANHOLE
- BENCHMARK
- BOX WIRE FENCE
- GUIDE RAIL
- SANITARY LINE (SS)
- EDGE OF WOODS
- OVERHEAD ELECTRIC LINE, TELEPHONE AND CABLE (E,T,C)
- EDGE OF WATER
- UNPAVED DRIVE
- MAJOR CONTOURS
- MINOR CONTOURS
- APPROX. PROPERTY LINE

PROPOSED

- CLL — CONTRACT LIMIT LINE
- CONTRACTOR STAGING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- DETAIL NUMBER (X) / DETAIL REFERENCE / DRAWING PAGE NUMBER (XXX)
- GRAVEL SURFACE
- 260 — CONTOUR LINE
- CHAIN LINK FENCE
- VEGETATIVE PROTECTIVE FENCE
- LIGHT POLE
- SANITARY MANHOLE (S)
- UNDERGROUND PLUG VALVE W/ VALVE BOX
- BOLLARD
- A — AIR LINE
- FM — FORCE MAIN
- SF — SILT FENCE
- SS — SANITARY SEWER
- W — WATER LINE
- PW — PLANT WATER (NON-POTABLE)
- CL — CHEMICAL LINE
- UE — UNDERGROUND ELECTRIC
- UTILITY LINE TO BE ABANDONED -IN PLACE
- UTILITY LINE TO BE REMOVED
- PLUGGED OR CAPPED LINE
- PIPE PENETRATION TO BE PLUGGED WITH NON-SHRINK GROUT, WATERTIGHT
- MISCELLANEOUS REMOVAL

ABBREVIATIONS

A	ARCHITECTURAL
APPROX.	APPROXIMATELY
BLDG.	BUILDING
C.C.	CENTER TO CENTER
CY	CUBIC YARDS
D.	DIAMETER
DIM.	DIMENSION
E	ELECTRICAL
EXIST.	EXISTING
FM	FORCEMAIN
FRP	FIBERGLASS REINFORCED PLASTIC
FT.	FEET/FOOT
GALV.	GALVANIZED
H	HVAC
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HWL	HIGH WATER LEVEL
I.D.	INSIDE DIAMETER
INV.	INVERT
JB	JUNCTION BOX
LB(S)	POUNDS
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH-HIGH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW-LOW
LWL	LOW WATER LEVEL
M	MECHANICAL
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P	PLUMBING
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
R.P.M.	REVOLUTIONS PER MINUTE
REQ'D	REQUIRED
SCH	SCHEDULE
SF	SQUARE FOOT
SQ	SQUARE
SS	SANITARY SEWER
S.S.	STAINLESS STEEL
TYP.	TYPICAL
WSL	WATER SURFACE LEVEL
WWTP	WASTEWATER TREATMENT PLANT

SURVEY MAP NOTES:

1. BASEMAPPING PREPARED BY MJ ENGINEERING AND LAND SURVEYING, PC (MJ) BASED ON A FIELD SURVEY PERFORMED BY MJ IN JUNE 2019.
2. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SURFACE EVIDENCE VISIBLE AT GROUND LEVEL AND SUPPLEMENTED WITH INFORMATION SHOWN ON RECORD DRAWINGS PROVIDED BY THE TOWN. THE MAPPING DOES NOT PURPORT TO SHOW ALL UNDERGROUND UTILITIES ON SITE OR IN THE ACTUAL LOCATION AND IS SUBJECT TO VERIFICATION BY THE CONTRACTOR VIA TEST PIT EXCAVATIONS. FURTHER, ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES, UTILITIES, VEGETATION, WATERWAYS, ROADS, DRIVEWAYS, SIGNS, AND PROPERTY AND RIGHT OF WAY LINES ARE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO STARTING CONSTRUCTION (INCLUDING REMOVALS).
3. THE HORIZONTAL DATUM IS REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD/2011), NEW YORK STATE PLANE EAST ZONE 3101.
4. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. CONTOUR INTERVAL = 1 FOOT.
6. NORTH IS ORIENTED TO GRID NORTH FROM GPS OBSERVATIONS.

GENERAL NOTES:

1. THE WADHAMS WWTP IS OWNED, OPERATED AND MAINTAINED BY THE TOWN OF WESTPORT AND IS IN CONTINUOUS OPERATION THROUGHOUT THE YEAR. ACCORDINGLY, THE CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS IN SUCH A MANNER THAT THE WASTEWATER TREATMENT PLANT FUNCTION IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY FACILITIES AS NECESSARY TO MAINTAIN SANITARY CONVEYANCE AND FULL TREATMENT PLANT FUNCTION.
2. UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY IN LOCATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY AND RETAIN UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 72 HOURS IN ADVANCE AND OBTAIN A DIG SAFE NEW YORK STAKE OUT (1-800-962-7962) PRIOR TO COMMENCING CONSTRUCTION TO LOCATE ALL UTILITY LINES ON-SITE. CONTRACTOR SHALL CONTACT AND RETAIN A PRIVATE UTILITY LOCATION SERVICE TO LOCATE ONSITE UTILITIES TO FACILITATE CONSTRUCTION WORK. DAMAGE TO UTILITIES RESULTING FROM NEGLIGENCE OR FAILURE ON THE PART OF THE CONTRACTOR TO MAKE ACCURATE UTILITY LOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES.
3. EXISTING UTILITIES SHOWN OR NOT SHOWN, INCLUDING BUT NOT LIMITED TO WATER, SEWER (SANITARY AND STORM), BUILDINGS AND TANKAGE FOUNDATION UNDERDRAINS, UNDERGROUND ELECTRICAL, TELEPHONE AND GAS SERVICES SHALL BE LOCATED AND PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ANY DAMAGED UTILITY TO THE SATISFACTION OF THE ENGINEER AT THEIR OWN EXPENSE.
4. ALL EXISTING UTILITY LINES AND/OR EXISTING STRUCTURES NEAR THE INSTALLATION OF NEW UNDERGROUND STRUCTURES SHALL BE PROTECTED, PRESERVED AND SUPPORTED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH SITE CONDITIONS AND SHALL INCLUDE PROVISIONS TO AVOID CONFLICTS WITH AND/OR RESTORE SITE FEATURES TO AS GOOD OR BETTER CONDITION. NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR WORK REQUIRED TO AVOID CONFLICTS WITH EXISTING SURFACE FEATURES OR RESTORE THOSE WHICH ARE NOT SHOWN.
6. UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXISTING FEATURES WHICH ARE DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, (INCLUDING BUT NOT LIMITED TO CULVERT PIPES, SWALES, TREES, SHRUBS, BUSHES, PLANTERS, SIGNS, ASPHALT DRIVES, CONCRETE DRIVES, GRAVEL DRIVES, FENCES AND WALKWAYS), SHALL BE RESTORED AND/OR REPLACED IN KIND, SIZE, MATERIAL AND TYPE AS APPLICABLE, BY THE CONTRACTOR AT THEIR OWN EXPENSE. CONTRACTOR SHALL SAWCUT ASPHALT AND CONCRETE PAVEMENT WHERE CROSSED.
7. THE CONTRACTOR SHALL LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR RE-ESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION AT THEIR OWN EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING VEGETATION NOT INDICATED TO BE REMOVED BY THE WORK UNDER THIS CONTRACT. PROVIDE FENCES, BARRICADES AND OTHER SUITABLE DEVICES TO PREVENT DAMAGE BY VEHICLES. RESTRICT VEHICULAR TRAFFIC TO AREAS OUTSIDE THE DRIP LINE OF TREES. PREVENT COMPACTION OF SOIL WITHIN THE DRIP LINE OF TREES AND SHRUBS. DO NOT DRIVE OR PARK VEHICLES ON LAWNS.
9. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PRESERVE ALL TREES. NO CLEARING SHALL BE CONDUCTED UNLESS FIRST APPROVED BY THE ENGINEER. ANY LANDSCAPING OR TREES WHICH ARE NOT INDICATED TO BE REMOVED AND ARE DAMAGED SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
10. RESTORE ALL SURFACES TO AS GOOD OR BETTER CONDITION THAN BEFORE CONSTRUCTION IMMEDIATELY FOLLOWING COMPLETION OF WORK IN ANY AREA.
11. CONTRACTOR SHALL RESTRICT LOCATIONS OF ON-SITE MATERIALS AND EQUIPMENT TO THE STAGING AREA INDICATED ON THE PLANS, WITHIN THE LIMITS OF THE WADHAMS WWTP PROPERTY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ADJACENT TOWN PARK PROPERTY. CONTRACTOR SHALL PROVIDE TEMPORARY CHAIN LINK FENCING TO SECURE THE STAGING AREA.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TREATMENT PROCESSES, BUILDINGS, ROADWAYS, AND WALKWAYS AT ALL TIMES. SAFE AND CONTINUOUS THROUGH TRAFFIC AND INGRESS AND EGRESS ALONG THE ACCESS ROAD TO THE TOWN PARK AND WWTP SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION. PERMANENT PAVED ROADS ARE NOT DESIGNED OR INTENDED FOR CONSTRUCTION EQUIPMENT USE ANY PAVEMENT DAMAGED BY CONTRACTOR EQUIPMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
13. SITE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION. THE ROADS SHALL BE KEPT CLEAR OF MUD AND DEBRIS AT ALL TIMES.
14. CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL. NO SEPARATE PAYMENT FOR DUST CONTROL SHALL BE MADE.
15. CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL SNOW AND ICE AS NEEDED TO PERFORM WORK AT NO ADDITIONAL COST. CONTRACTOR'S OPERATIONS SHALL NOT INTERFERE WITH THE TOWN'S ABILITY TO REMOVE SNOW AND PROVIDE ICE CONTROL.
16. THERE ARE CONFINED AND/OR HAZARDOUS SPACES LOCATED ON SITE THAT WILL BE INCLUDED WITH THE WORK INVOLVED WITH THIS PROJECT. THESE AREAS INCLUDE, BUT ARE NOT LIMITED TO ALL UNDERGROUND WASTEWATER STRUCTURES INCLUDING MANHOLES, SEPTIC TANKS, INFLUENT SAMPLING BUILDING CHANNEL, DOSING TANK, AND EFFLUENT PUMP STATION WETWELL AND VALVE VAULT. ALL WORK THAT IS PERFORMED WITHIN THESE STRUCTURES SHALL BE DONE IN ACCORDANCE WITH OSHA CONFINED SPACE AND HAZARDOUS SPACE ENTRY REGULATIONS.
17. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING ELEVATIONS, LOCATIONS, SIZES AND MATERIALS WITH NEW INSTALLATIONS. DIFFERENCES NOT SHOWN ON THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PERFORMING ANY REMOVALS AND/OR INSTALLATIONS.
18. THE APPROXIMATE LOCATIONS OF THE SITE IMPROVEMENTS ARE INDICATED ON THE PLANS, HOWEVER THE ACTUAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF THE UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER BASED ON CONTRACTOR'S EXPLORATORY EXCAVATIONS AND FIELD VERIFICATION WORK PERFORMED IN ADVANCE OF NEW STRUCTURE AND/OR UTILITY INSTALLATION.
19. PRIOR TO PERFORMING INSTALLATIONS AND OTHER WORK OPERATIONS, THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO EXPOSE EXISTING UNDERGROUND UTILITIES SO THAT IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT, DUE TO INTERFERENCE, THESE CHANGES CAN BE MADE IN ADVANCE OF THE WORK. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXPLORATORY EXCAVATIONS. PERFORMING EXPLORATORY EXCAVATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
    - WHERE NEW UNDERGROUND STRUCTURES ARE TO BE INSTALLED
    - WHERE NEW PIPING CROSSES EXISTING UTILITIES
    - WHERE NEW PIPING CONNECTS TO EXISTING PIPING
20. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR SHEETING OR SHORING AS NECESSARY TO ACCOMPLISH THE WORK, ENSURE THE PROTECTION OF WORKERS IN THE EXCAVATIONS AND ADJACENT UTILITIES, ROADWAYS AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO ANY DAMAGE OF EXISTING FEATURES TO REMAIN DURING EXCAVATION ACTIVITIES.
22. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO PERFORMING SEWER FLOW CONTROL MEASURES INCLUDING BYPASS PUMPING OPERATIONS TO COMPLETE THE WORK. SANITARY SEWER SERVICE AND WASTEWATER TREATMENT PLANT OPERATION SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
23. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEGALLY DISPOSING OFF-SITE ALL MATERIALS REMOVED AS PART OF THIS PROJECT.
24. EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TOWN PRIOR TO COMMENCING WORK AND SITE DISTURBANCE.
25. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE THAT ALL ELECTRICAL EQUIPMENT IS ELECTRICALLY DISCONNECTED PRIOR TO DEMOLITION.
26. IN ANY LOCATIONS WHERE THE EXISTING SANITARY SEWER SYSTEM OR SERVICES ARE TO BE ABANDON IN PLACE, THE CONTRACTOR SHALL DRAIN THE EXISTING SEWER MAINS OR SERVICE AS NECESSARY, DISCHARGING DRAINED SEWAGE IN ACCORDANCE WITH APPROPRIATE REGULATIONS.
27. ALL BURIED PIPING ENTERING/LEAVING A STRUCTURE SHALL HAVE A JOINT WITHIN THREE FEET OF THE STRUCTURE'S WALL.
28. ALL NECESSARY PIPE AND EQUIPMENT SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
29. FOR CLARITY, EXISTING FACILITIES, EQUIPMENT AND PIPING GENERALLY SHOWN LIGHT. NEW FACILITIES, EQUIPMENT AND PIPING GENERALLY SHOWN DARK.
30. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PERFORM THE WORK SUCH THAT TREATMENT AND CONVEYANCE OF WASTEWATER IS MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION. REFER TO THE SUGGESTED SEQUENCE OF CONSTRUCTION, THIS SHEET.

WORK PERFORMED BY TOWN:

1. THE FOLLOWING WORK OF THIS PROJECT WILL BE PERFORMED BY THE TOWN.
    A. COLLECTION SYSTEM MANHOLES MH 6 AND MH 10:
    - FURNISH AND INSTALL INSERTS AT MH 6 AND MH 10.

    B. EXISTING SEPTIC TANKS:
    - REPLACEMENT OF PLYWOOD COVERS WITH 304 S.S. LOCKING COVERS.

    C. EXISTING INFLUENT SAMPLING BUILDING
    - DEMOLITION AND REMOVAL OF BUILDING INCLUDING BELOW GRADE CONCRETE CHANNEL AND FOUNDATION.
    - RETAIN THE SERVICES OF A CERTIFIED WASTE HAULER TO PUMP OUT AND REMOVE WASTEWATER FROM THE UPSTREAM SEPTIC TANKS TO FACILITATE BUILDING DEMOLITION.

    D. DOSING TANK IMPROVEMENTS
    - RETAIN THE SERVICES OF A CERTIFIED WASTE HAULER TO PUMP OUT AND REMOVE WASTEWATER FROM THE UPSTREAM SEPTIC TANKS TO ISOLATE FLOWS TO THE DOSING TANK.
    - DRAINING OF DOSING TANK AND REMOVAL OF RESIDUAL WASH WATER GENERATED BY CONTRACTOR PRESSURE WASHING OPERATIONS.
    - CONTRACTOR SHALL PERFORM THE DOSING TANK IMPROVEMENTS AT THE SAME TIME THE TOWN PERFORMS THE DEMOLITION AND REMOVAL OF THE EXISTING INFLUENT SAMPLING BUILDING TO ELIMINATE DUPLICATION OF SEPTIC TANK PUMP OUT SERVICES.

    E. SAND FILTER REHABILITATION
    - PURCHASE OF NEW SAND FILTER MEDIA
    - HAULING OF NEW SAND FILTER MEDIA TO THE WWTP SITE

    F. SITE WORK
    - FURNISH, INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROLS
    - SURFACE RESTORATION - TOPSOIL, SEEDING AND MULCH
    - GRAVEL DRIVE IMPROVEMENTS, INCLUDING PLACEMENT OF GRAVEL WITHIN CONTRACTOR'S STAGING AREA.
    - FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE

GENERAL SEQUENCE OF CONSTRUCTION:

1. PROVIDED BELOW IS AN OVERVIEW OF THE SUGGESTED CONSTRUCTION SEQUENCE WHICH IS INTENDED TO PROVIDE GUIDANCE IN SUPPORT OF COMPLIANCE WITH REGULATORY REQUIREMENTS AND APPROVALS. IT IS NOT INTENDED TO COVER ALL WORK OR RESPONSIBILITIES OF THE CONTRACTS. THE CONTRACTOR SHALL SUBMIT A SPECIFIC INTENDED CONSTRUCTION SEQUENCE FOR REVIEW AND CONCURRENCE BY THE ENGINEER WITHIN 15 DAYS OF PROJECT AWARD.
2. THE WASTEWATER TREATMENT PLANT (WWTP) FUNCTION SHALL BE MAINTAINED SUCH THAT THE QUALITY OF THE WASTEWATER EFFLUENT DISCHARGE IS IN CONFORMANCE WITH THE ENVIRONMENTAL PERMIT REQUIREMENTS AT ALL TIMES DURING CONSTRUCTION. TREATMENT PLANT OPERATIONS SHALL BE THE RESPONSIBILITY OF THE TOWN. THE ENGINEER SHALL COORDINATE WITH CONTRACTOR(S) AND THE TOWN TO SEQUENCE CONSTRUCTION/DEMOLITION WORK TO MEET THE INTENT OF THIS SECTION. CONTRACTOR(S) SHALL NOT DEMOLISH ANY EQUIPMENT, STRUCTURE OR TREATMENT PROCESS UNTIL ITS FUNCTIONAL REPLACEMENT HAS BEEN CONSTRUCTED, APPROVED BY THE APPROPRIATE REGULATORY AGENCY AND PLACED INTO OPERATION. THE CONTRACTOR SHALL NOT DEMOLISH, CONSTRUCT, OR MODIFY THE TREATMENT PROCESSES IN ANY MANNER THAT WILL PREVENT THE WWTP FROM COMPLIANCE WITH THE FOLLOWING SPDES PERMIT EFFLUENT DISCHARGE LIMITS:
    - 5-DAY BIOLOGICAL OXYGEN DEMAND (BOD_5): 30 mg/L, 3.75 POUNDS PER DAY
    - TOTAL SUSPENDED SOLIDS (TSS): 30 mg/L, 3.75 POUNDS PER DAY
    - TOTAL PHOSPHOROUS (AS P): 0.24 POUNDS PER DAY
    - SETTLEABLE SOLIDS: 0.3 mL/L
    - pH: 6.5 TO 8.5
3. CONTRACTOR(S) SHALL COORDINATE TEMPORARY FACILITIES UNDER THE DIRECTION OF THE ENGINEER AND TOWN. THE TOWN SHALL NOT BE RESPONSIBLE FOR OPERATING OR MAINTAINING CONTRACTOR'S TEMPORARY FACILITIES.
4. THE CONTRACTOR(S) CONSTRUCTION ACTIVITIES SHALL NOT IMPACT THE REGULAR OPERATIONS AND MAINTENANCE WORK OF THE TREATMENT PLANT OPERATOR (TOWN).
5. DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION TO MAINTAIN THE EXISTING LEVEL OF TREATMENT AT ALL TIMES. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE TOWN PRIOR TO SITE DISTURBANCE WORK.

SUGGESTED CONSTRUCTION SEQUENCE:

1. EROSION AND SEDIMENT CONTROL (E&SC):
    - TOWN SHALL FURNISH AND INSTALL E&SC MEASURES AT ALL LOCATIONS WHERE WORK WILL RESULT IN SITE DISTURBANCE PRIOR TO TOWN AND/OR CONTRACTOR PERFORMING ANY DISTURBANCES.
2. COLLECTION SYSTEM MANHOLES AND SEPTIC TANKS:
    - TOWN SHALL FURNISH AND INSTALL MANHOLE INSERTS AT MANHOLES MH 6 AND MH 10 IN THE COLLECTION SYSTEM.
    - TOWN SHALL FURNISH AND INSTALL NEW 304 S.S. LOCKING COVERS AT SEPTIC TANKS.
3. EXISTING INFLUENT SAMPLING BUILDING REMOVAL AND DOSING TANK IMPROVEMENTS
    - TOWN SHALL RETAIN THE SERVICE OF A PERMITTED WASTE HAULER TO REMOVE WASTEWATER FROM THE SEPTIC TANKS WHILE THE INFLUENT SAMPLING BUILDING IS REMOVED AS WELL AS TO FACILITATE CONTRACTOR INSTALLATION OF NEW PVC SEWER BETWEEN SEPTIC TANK #3 AND DOSING TANK. TOWN SHALL ALSO BE RESPONSIBLE FOR DRAINING THE DOSING TANK AND REMOVAL OF RESIDUAL WASH WATER GENERATED FROM CONTRACTOR PRESSURE WASHING OPERATIONS.
        - CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A PERMITTED WASTE HAULER TO REMOVE WASTEWATER FROM THE SEPTIC TANKS TO ISOLATE FLOWS TO THE DOSING TANK IF THE DOSING TANK IMPROVEMENTS ARE NOT PERFORMED AT THE SAME TIME THE TOWN REMOVES THE INFLUENT SAMPLING BUILDING.
    - FOLLOWING REMOVAL OF INFLUENT SAMPLING BUILDING BY TOWN, CONTRACTOR SHALL FURNISH AND INSTALL NEW 8-INCH PVC SEWER AND COUPLINGS TO CONNECT THE EXISTING 8" PIPING LEAVE SEPTIC TANK #3 TO THE EXISTING 8" PIPING INTO THE DOSING TANK.
    - CONTRACTOR SHALL REMOVE EXISTING DOSING TANK COVER AND PRESSURE WASH CLEAN REMAINING TANK INCLUDING FLOUT SYSTEM.
    - CONTRACTOR SHALL FURNISH AND INSTALL DOSING TANK PRECAST COVER AND DOSING COUNTER.
4. SAND FILTER REHABILITATION:
    - COORDINATE WITH THE ENGINEER AND TOWN TO REHABILITATE THE TWO (2) SAND FILTERS (I.E. #3 & #4), WHICH ARE CURRENTLY RESTING FOLLOWED BY REHABILITATION OF THE TWO (2) SAND FILTERS (I.E. #1 & #2), WHICH ARE CURRENTLY OPERATIONAL.
    - THE TOWN SHALL BE RESPONSIBLE FOR OPENING AND/OR CLOSING VALVES ON THE INLET FEED PIPING TO ISOLATE (AND/OR RESTORE OPERATION OF) THE SAND FILTERS TO FACILITATE THE WORK.
    - THE TOWN SHALL BE RESPONSIBLE FOR FURNISHING AND HAULING NEW SAND FILTER MEDIA TO THE WWTP SITE.
    - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER WORK INCLUDING BUT NOT LIMITED TO REMOVAL OF EXISTING SAND FILTER MEDIA (TO BE USED AS FILL FOR RAISING GRADE), INSTALLATION OF NEW SAND FILTER MEDIA, RAISING OF INLET FEED PIPES, VENTS AND CLEANOUTS, REPLACEMENT OF CONCRETE SPLASH PADS, RAISING OF SAND FILTER BERMS AND NEW PRECAST RISER TO RAISE FRAME AND COVER FOR EXISTING SANITARY MANHOLE SMH #16.
5. EFFLUENT PUMPING AND DISINFECTION IMPROVEMENTS:
    - CONTRACTOR SHALL FURNISH AND INSTALL EFFLUENT PUMP STATION, DISINFECTION BUILDING, UV DISINFECTION SYSTEM AND CONCRETE PADS FOR GENERATOR AND PROPANE TANK. ELECTRICAL CONTRACTOR SHALL PERFORM ELECTRICAL IMPROVEMENTS INCLUDING PROVIDING NEW GENERATOR AND PROPANE TANK.
    - CONTRACTOR SHALL INSTALL NEW OUTFALL SEWER FROM UV DISINFECTION SYSTEM UP TO BUT NOT INCLUDING THE CONNECTION WITH THE EXISTING OUTFALL SEWER IMMEDIATELY UPSTREAM OF THE EXISTING EFFLUENT SAMPLING MANHOLE.
6. REROUTE SAND FILTER EFFLUENT TO EFFLUENT PUMP STATION (BY CONTRACTOR)
    - SAND FILTERS #1 AND #2 WILL BE OPERATIONAL WHILE PERFORMING THE WORK. CONTRACTOR SHALL PROVIDE BYPASS PUMPING FROM MANHOLE SMH 16 (WHICH RECEIVES EFFLUENT FROM FILTERS #1 & #2), TO THE EFFLUENT SAMPLING MANHOLE TO FACILITATE THE WORK.
7. CONTRACTOR SHALL CONNECT NEW OUTFALL SEWER TO EXISTING SEWER UPSTREAM OF EFFLUENT SAMPLING MANHOLE. ALL SAND FILTER EFFLUENT NOW CONVEYED TO EFFLUENT PUMP STATION, UV DISINFECTION AND NEW OUTFALL SEWER.
    - CONTRACTOR SHALL PROVIDE BYPASS PUMPING FROM NEW OUTFALL MANHOLE SMH #19 TO EXISTING SAMPLING MANHOLE TO PERFORM CONNECTION.

ADD ALTERNATES: CONTRACT 1G - GENERAL CONSTRUCTION

1. ADD ALTERNATE NO.1 - CHAIN LINK FENCE AND GATES
    - ADD ALTERNATE NO.1 SHALL INCLUDE THE ADDITIONAL COST TO FURNISH AND INSTALL CHAIN LINK FENCE AND ONE (1) DOUBLE SWING GATE AROUND THE OPEN SAND FILTERS, EFFLUENT PUMP STATION AND UV DISINFECTION BUILDING AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH SPECIFICATION SECTION 323113 "CHAIN LINK FENCE AND GATES".
2. ADD ALTERNATE NO.2 - SPORTS NETTING SYSTEM
    - ADD ALTERNATE NO.2 SHALL INCLUDE THE ADDITIONAL COST TO FURNISH AND INSTALL A SPORTS NETTING SYSTEM AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH SPECIFICATION SECTION 107301 "SPORTS NETTING SYSTEM AND ACCESSORIES".

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", NOVEMBER 2016.
2. THE TOWN IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.

    A. SILT FENCE SHALL BE INSTALLED PRIOR TO DISTURBANCE OF EXISTING SOIL SURFACE AND SHALL BE INSPECTED AND MAINTAINED REGULARLY DURING CONSTRUCTION ACTIVITIES.

    B. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A STABILIZED AREA WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

    C. SOIL STOCKPILES: HAY BALES OR SILT FENCE SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL, AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS GREATER THAN 1 DAY. HAY BALES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 7 DAYS SHALL BE STABILIZED BY SEEDING. PRIOR TO THE SEEDING OPERATION, THE STOCKPILED MATERIAL SHALL BE GRADED AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.

    D. TEMPORARY SEEDING: TEMPORARY SEEDING REDUCES EROSION AND SEDIMENT LOSS FROM BARE GROUND. PROVIDE TEMPORARY SEEDING TO PROVIDE TEMPORARY COVER FOR DISTURBED EARTH OR SOIL STOCKPILES HELD FOR LONGER THAN 7 DAYS, TEMPORARY SHUT DOWN OF CONSTRUCTION OR WAITING FOR OPTIMAL PLANTING TIME.

    E. DUST CONTROL: TEMPORARY AND PERMANENT STABILIZATION MEASURES, SUCH AS SEEDING, MULCHING AND INSTALLING EROSION AND SEDIMENT CONTROL BLANKETS, WILL PREVENT DUST FROM BLOWING OFF SITE. INSTALL THESE MEASURES AS SOON AS FINAL GRADES ARE REACHED AND ON SOIL STOCKPILES AND DISTURBED AREAS TO BE LEFT FOR LONGER THAN 7 DAYS.

    F. PERMANENT SEEDING: PERMANENT SEEDING PREVENTS SOIL EROSION FROM BARE SOIL. ONCE FINAL GRADING OF AN AREA HAS BEEN COMPLETED, SEEDING SHALL TAKE PLACE IMMEDIATELY.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

STATE OF NEW YORK · MICHAEL D. PANICHELLI · LICENSED PROFESSIONAL ENGINEER · 074751

DATE

DATE

MJ Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

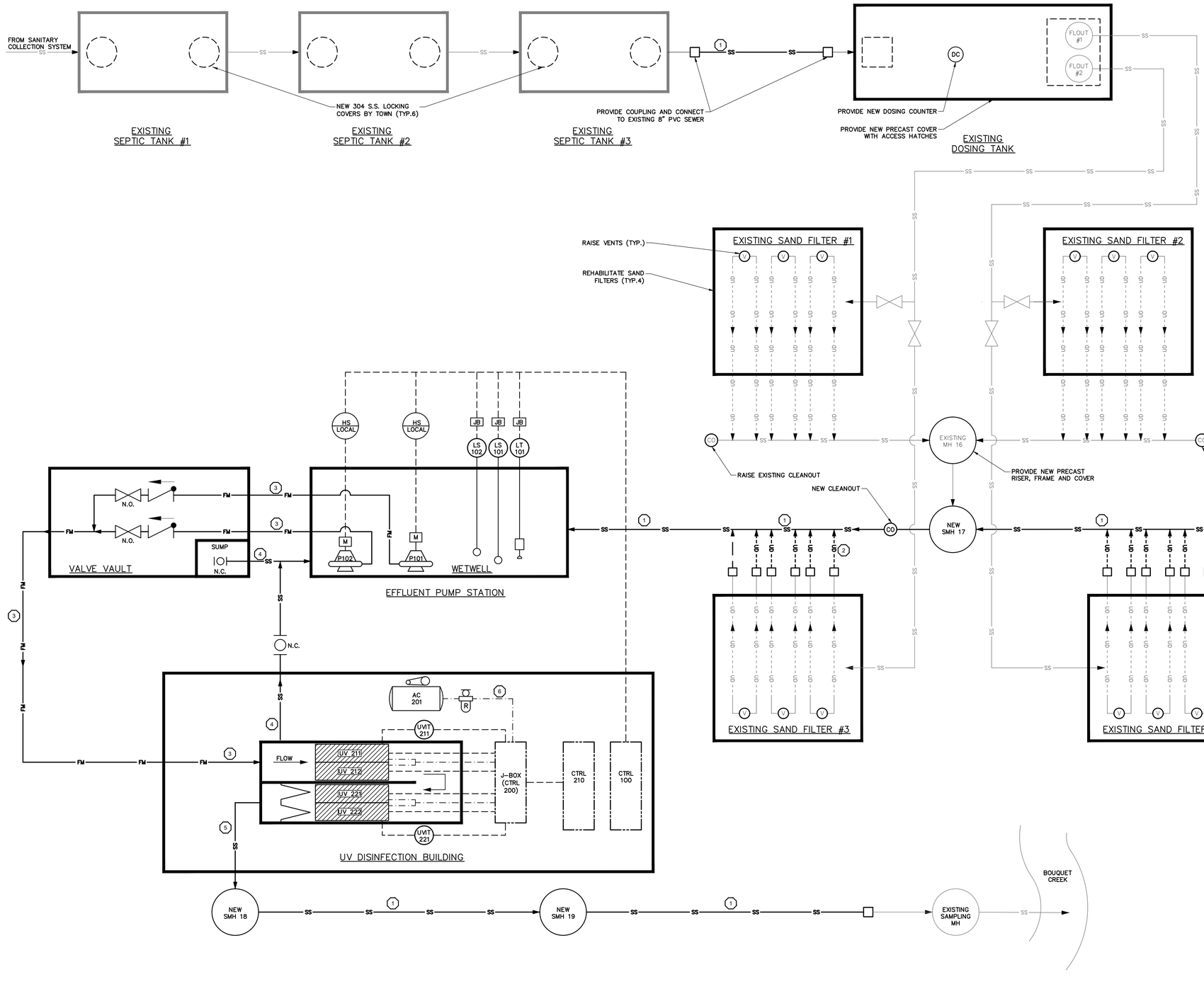
GENERAL NOTES, LEGEND, ABBREVIATIONS AND SEQUENCE OF CONSTRUCTION

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

G-002

File Name: F:\MJ1075\1075.02 Wadhams WWTP\G-002 NOTES.dwg (Layout: G-002)
Date: Tue, Dec 15, 2020 - 11:10 AM (Name: mdrislane)



KEYED NOTES

1. 8" PVC SDR 35 PIPE
2. 6" PVC SDR 35 PIPE
3. 4" DUCTILE IRON PIPE
4. 2" PVC SDR 21 PIPE
5. 8" PVC C900 (W/ D.I. MJ FITTINGS)
6. AIR HOSE (BY UV MANUFACTURER)

P&ID VALVE SYMBOLS

- GATE VALVE
- CHECK VALVE
- BALL VALVE

P&ID EQUIPMENT SYMBOLS

- SUBMERSIBLE PUMP
- UV MODULE
- LEVEL CONTROL WEIR

P&ID PIPE & ACCESSORIES SYMBOLS

- SS — SANITARY SEWER (GRAVITY)
- FM — FORCEMAIN
- UD — UNDERDRAIN (SAND FILTERS)
- COMPRESSED AIR
- DIRECTION OF FLOW
- PIPE CONNECTOR (COUPLING, TRANSITION FITTING)
- V — VENT
- CO — CLEANOUT

P&ID INSTRUMENTATION, ELECTRICAL & RELATED SYMBOLS

- M — ELECTRIC OPERATOR
- LT — SUBMERSIBLE LEVEL TRANSDUCER
- LS — LEVEL SWITCH (FLOAT)
- JB — JUNCTION BOX (BY ELECTRICAL CONTRACT)
- HS LOCAL — LOCAL DISCONNECT (BY ELECTRICAL CONTRACT)
- CTRL — MAIN CONTROL PANEL
- ELECTRICAL/COMMUNICATION (BY ELECTRICAL CONTRACT)

EQUIPMENT, INSTRUMENTATION AND CONTROLS SCHEDULE

TAG ID	DESCRIPTION	BY PUMP MANUFACTURER	BY UV MANUFACTURER	POWER	CONTROL / POWER FROM
P-101	EFFLUENT SUBMERSIBLE PUMP #1	X		2 HP 1 PH, 230 V	CTRL-100
P-102	EFFLUENT SUBMERSIBLE PUMP #2	X		2 HP 1 PH, 230 V	CTRL-100
LT-101	SUBMERSIBLE LEVEL TRANSDUCER	X			CTRL-100
LS-101	BACKUP LEVEL FLOAT (LEAD PUMP OFF)	X			CTRL-100
LS-102	BACKUP LEVEL FLOAT (HIGH WATER ALARM / LEAD PUMP ON)	X			CTRL-100
UV-211	UV BANK #1 - LAMP MODULE #1		X		CTRL-200
UV-212	UV BANK #1 - LAMP MODULE #2		X		CTRL-200
UVIT-211	UV BANK #1 - UV INTENSITY SENSOR		X		CTRL-200
UV-221	UV BANK #2 - LAMP MODULE #1		X		CTRL-200
UV-222	UV BANK #2 - LAMP MODULE #2		X		CTRL-200
UVIT-221	UV BANK #2 - UV INTENSITY SENSOR		X		CTRL-200
AC-201	AIR COMPRESSOR		X	2 HP 1 PH, 120/240 V	WALL RECEPTACLE
CTRL-100	PUMP CONTROL PANEL	X		1 PH, 230 V	DP-1
CTRL-200	JUNCTION BOX		X		CTRL-210
CTRL-210	UV SYSTEM BALLAST CONTROL CENTER		X	1 PH, 230 V	DP-1

SUBMITTAL / REVISIONS

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1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — MICHAEL D. PATCHETT — 074753

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

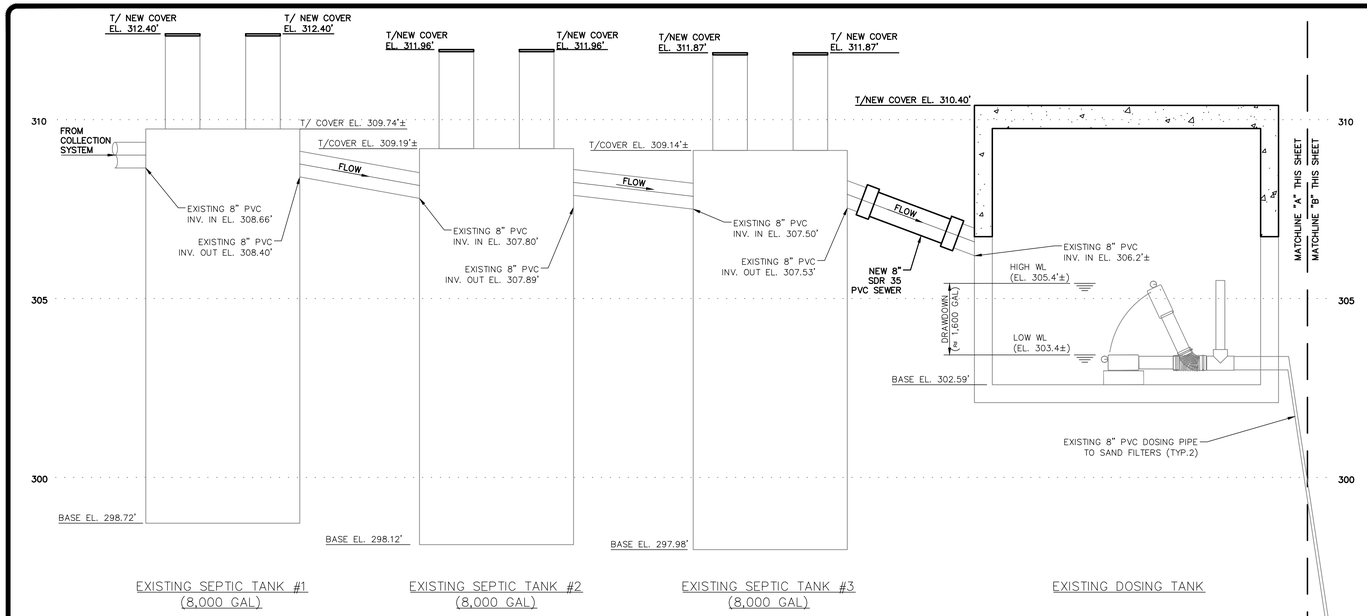
PROCESS, INSTRUMENTATION AND CONTROL DIAGRAM

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

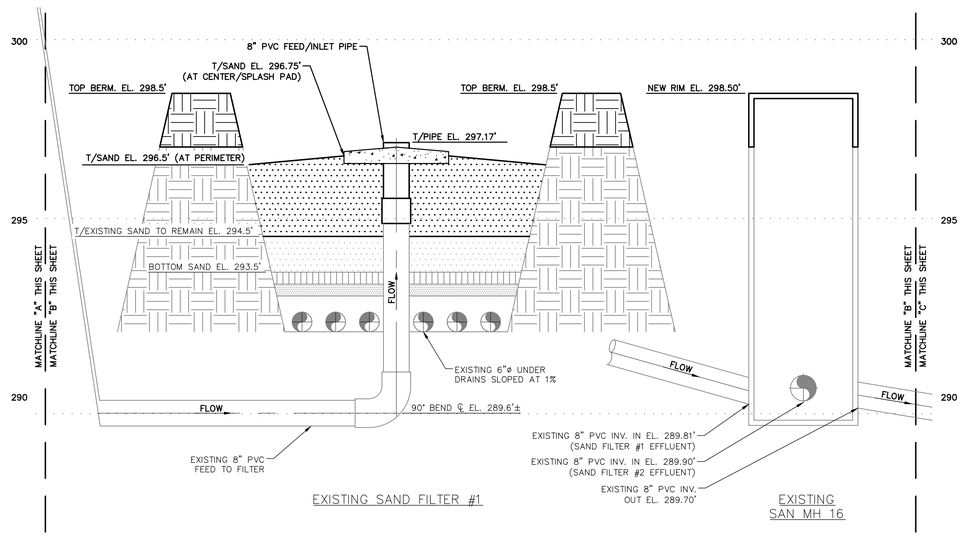
G-003

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\G-003 P&ID.dwg (Layout: G-003)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrislane)



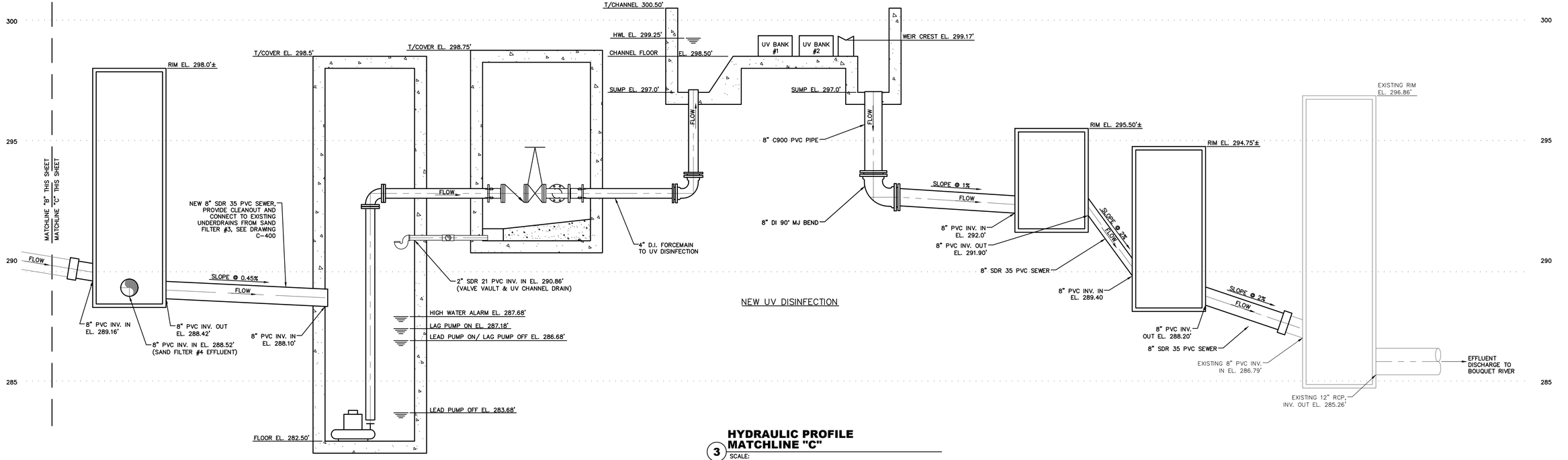
1 HYDRAULIC PROFILE MATCHLINE "A"

SCALE:
VERTICAL: 1/2" = 1'-0"
HORIZONTAL: NONE



2 HYDRAULIC PROFILE MATCHLINE "B"

SCALE:
VERTICAL: 1/2" = 1'-0"
HORIZONTAL: NONE



3 HYDRAULIC PROFILE MATCHLINE "C"

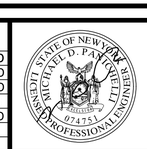
SCALE:
VERTICAL: 1/2" = 1'-0"
HORIZONTAL: NONE

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\G-004 HYDRAULIC PROFILE.dwg (Layout: G-004)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrislane)

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD



DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

HYDRAULIC PROFILE

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

G-004

KEYED NOTES

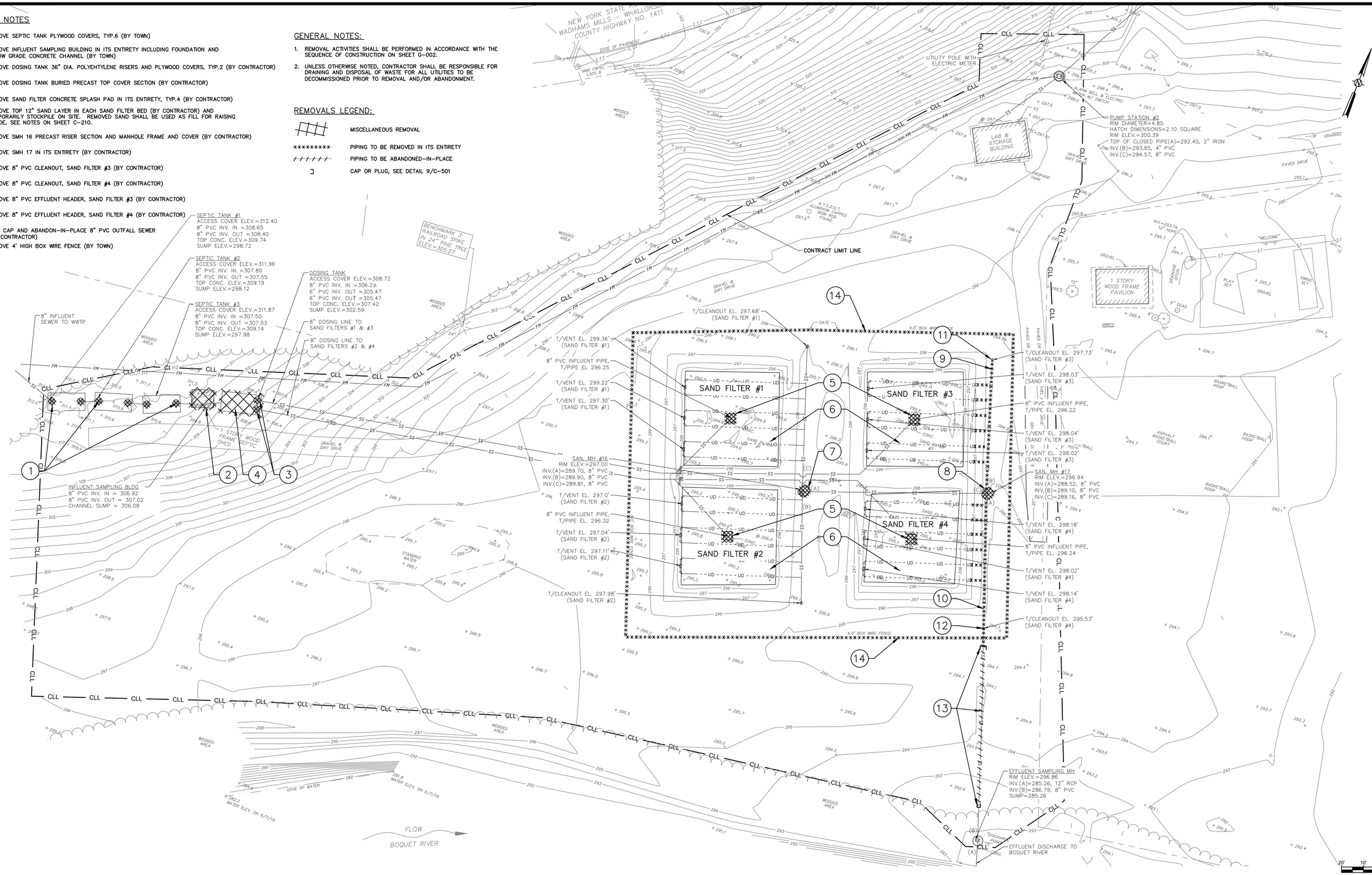
1. REMOVE SEPTIC TANK PLYWOOD COVERS, TYP.6 (BY TOWN)
2. REMOVE INFLUENT SAMPLING BUILDING IN ITS ENTIRETY INCLUDING FOUNDATION AND BELOW GRADE CONCRETE CHANNEL (BY TOWN)
3. REMOVE DOSING TANK 36" DIA. POLYEHTYLENE RISERS AND PLYWOOD COVERS, TYP.2 (BY CONTRACTOR)
4. REMOVE DOSING TANK BURIED PRECAST TOP COVER SECTION (BY CONTRACTOR)
5. REMOVE SAND FILTER CONCRETE SPLASH PAD IN ITS ENTIRETY, TYP.4 (BY CONTRACTOR)
6. REMOVE TOP 12" SAND LAYER IN EACH SAND FILTER BED (BY CONTRACTOR) AND TEMPORARILY STOCKPILE ON SITE. REMOVED SAND SHALL BE USED AS FILL FOR RAISING GRADE, SEE NOTES ON SHEET C-210.
7. REMOVE SMH 16 PRECAST RISER SECTION AND MANHOLE FRAME AND COVER (BY CONTRACTOR)
8. REMOVE SMH 17 IN ITS ENTIRETY (BY CONTRACTOR)
9. REMOVE 8" PVC CLEANOUT, SAND FILTER #3 (BY CONTRACTOR)
10. REMOVE 8" PVC CLEANOUT, SAND FILTER #4 (BY CONTRACTOR)
11. REMOVE 8" PVC EFFLUENT HEADER, SAND FILTER #3 (BY CONTRACTOR)
12. REMOVE 8" PVC EFFLUENT HEADER, SAND FILTER #4 (BY CONTRACTOR)
13. CUT, CAP AND ABANDON-IN-PLACE 8" PVC OUTFALL SEWER (BY CONTRACTOR)
14. REMOVE 4' HIGH BOX WIRE FENCE (BY TOWN)

GENERAL NOTES:

1. REMOVAL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION ON SHEET G-002.
2. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND DISPOSAL OF WASTE FOR ALL UTILITIES TO BE DECOMMISSIONED PRIOR TO REMOVAL AND/OR ABANDONMENT.

REMOVALS LEGEND:

- MISCELLANEOUS REMOVAL
- ××××××××× PIPING TO BE REMOVED IN ITS ENTIRETY
- ////// PIPING TO BE ABANDONED-IN-PLACE
- CAP OR PLUG, SEE DETAIL 9/C-501



SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

MICHAEL D. FALCONIERI — 074751 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

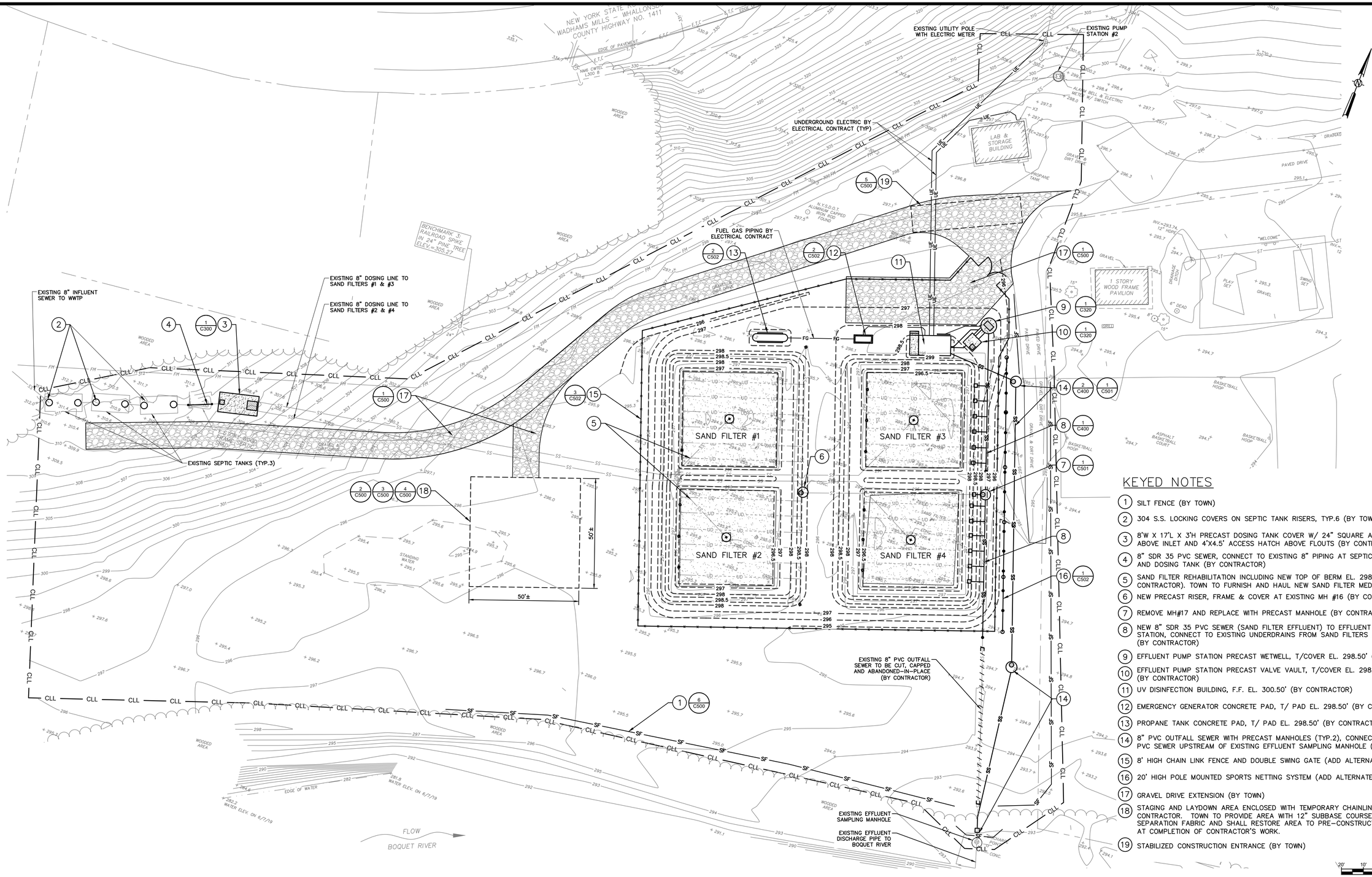
EXISTING CONDITIONS AND REMOVALS PLAN

ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

C-100

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-100 - REMOVALS PLAN.dwg (Layout: C-100)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrislane)



KEYED NOTES

1. SILT FENCE (BY TOWN)
2. 304 S.S. LOCKING COVERS ON SEPTIC TANK RISERS, TYP.6 (BY TOWN)
3. 8'W X 17'L X 3'H PRECAST DOSING TANK COVER W/ 24" SQUARE ACCESS HATCH ABOVE INLET AND 4'X4.5' ACCESS HATCH ABOVE FLOUTS (BY CONTRACTOR)
4. 8" SDR 35 PVC SEWER, CONNECT TO EXISTING 8" PIPING AT SEPTIC TANK #3 AND DOSING TANK (BY CONTRACTOR)
5. SAND FILTER REHABILITATION INCLUDING NEW TOP OF BERM EL. 298.5' (BY CONTRACTOR). TOWN TO FURNISH AND HAUL NEW SAND FILTER MEDIA TO WWTP SITE.
6. NEW PRECAST RISER, FRAME & COVER AT EXISTING MH #16 (BY CONTRACTOR)
7. REMOVE MH#17 AND REPLACE WITH PRECAST MANHOLE (BY CONTRACTOR)
8. NEW 8" SDR 35 PVC SEWER (SAND FILTER EFFLUENT) TO EFFLUENT PUMP STATION, CONNECT TO EXISTING UNDERDRAINS FROM SAND FILTERS #3 AND #4 (BY CONTRACTOR)
9. EFFLUENT PUMP STATION PRECAST WETWELL, T/COVER EL. 298.50' (BY CONTRACTOR)
10. EFFLUENT PUMP STATION PRECAST VALVE VAULT, T/COVER EL. 298.75' (BY CONTRACTOR)
11. UV DISINFECTION BUILDING, F.F. EL. 300.50' (BY CONTRACTOR)
12. EMERGENCY GENERATOR CONCRETE PAD, T/ PAD EL. 298.50' (BY CONTRACTOR)
13. PROPANE TANK CONCRETE PAD, T/ PAD EL. 298.50' (BY CONTRACTOR)
14. 8" PVC OUTFALL SEWER WITH PRECAST MANHOLES (TYP.2), CONNECT TO EXISTING 8" PVC SEWER UPSTREAM OF EXISTING EFFLUENT SAMPLING MANHOLE (BY CONTRACTOR)
15. 8' HIGH CHAIN LINK FENCE AND DOUBLE SWING GATE (ADD ALTERNATE NO.1)
16. 20' HIGH POLE MOUNTED SPORTS NETTING SYSTEM (ADD ALTERNATE NO.2)
17. GRAVEL DRIVE EXTENSION (BY TOWN)
18. STAGING AND LAYDOWN AREA ENCLOSED WITH TEMPORARY CHAINLINK FENCE BY CONTRACTOR. TOWN TO PROVIDE AREA WITH 12" SUBBASE COURSE TYPE 2 OVER SEPARATION FABRIC AND SHALL RESTORE AREA TO PRE-CONSTRUCTION CONDITIONS AT COMPLETION OF CONTRACTOR'S WORK.
19. STABILIZED CONSTRUCTION ENTRANCE (BY TOWN)

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

STATE OF NEW YORK · MICHAEL D. PATTERSON · 074751 · LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

OVERALL WWTP SITE PLAN

ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

C-200

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-200 - SITE PLAN.dwg (Layout: C-200)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrisiane)

KEYED NOTES

1. 8' HIGH CHAIN LINK FENCE (ADD ALTERNATE NO.1)
2. 12' WIDE DOUBLE SWING GATE (ADD ALTERNATE NO.1)
3. 20' HIGH SPORTS NETTING SYSTEM (ADD ALTERNATE NO.2)
4. GRAVEL ACCESS ROAD (BY TOWN)
5. EFFLUENT PUMP STATION WETWELL, T/COVER EL. 298.50' (BY CONTRACTOR)
6. EFFLUENT PUMP STATION VALVE VAULT, T/COVER EL. 298.75' (BY CONTRACTOR)
7. UV DISINFECTION BUILDING, F.F. EL. 300.50' (BY CONTRACTOR)
8. GENERATOR CONCRETE PAD, T/PAD EL. 298.50' (BY CONTRACTOR)
9. PROPANE TANK CONCRETE PAD, T/PAD EL. 298.50' (BY CONTRACTOR)
10. NEW PRECAST RISER, FRAME & COVER AT EXISTING SMH #16, COVER SET FLUSH WITH GRADE (BY CONTRACTOR)
11. PRECAST SANITARY MANHOLE (NEW SMH #17), COVER SET FLUSH WITH GRADE (BY CONTRACTOR)
12. PRECAST SANITARY MANHOLE (NEW SMH #18), COVER SET FLUSH WITH GRADE (BY CONTRACTOR)
13. PRECAST SANITARY MANHOLE (NEW SMH #19), COVER SET FLUSH WITH GRADE (BY CONTRACTOR)
14. 6" PVC FILTER UNDERDRAIN VENT PIPE EXTENSION, T/VENT EL. 298.50' OR 24" ABOVE GRADE, WHICHEVER IS GREATER (BY CONTRACTOR)
15. 8" PVC CLEANOUT EXTENSION (SAND FILTERS #1 & #2). T/CLEANOUT 12" ABOVE GRADE (BY CONTRACTOR)
16. NEW SAND FILTER MEDIA, 2' DEEP PLACED ABOVE REMAINING 12" SAND LAYER, TYP. EACH FILTER. INSTALLATION OF SAND BY CONTRACTOR. PURCHASE AND HAULING OF SAND BY TOWN.
17. PROVIDE NEW CONCRETE SPLASH PAD AND RAISE 8" PVC INLET/FEED PIPE, TYP. EACH FILTER (BY CONTRACTOR)
18. RAISE BERM AROUND SAND FILTERS WITH COMPACTED CLAY, T/BERM EL. 298.50' (TYP.), SEE NOTE 1 AND LEGEND THIS SHEET. TOWN SHALL PROVIDE 4" TOPSOIL AND SEED AS WELL AS EROSION CONTROL BLANKET ON ALL SLOPES 1:3 OR GREATER.
19. NEW 8" SDR 35 PVC SEWER, SLOPE AT 0.45% FROM NEW SMH #17 TO EFFLUENT PUMP STATION WETWELL. PROVIDE 8"X8"X6" PVC REDUCING TEES, 6" PVC 45° BENDS, 6" PVC SPOOL PIECES AND 6" FLEXIBLE COUPLINGS TO CONNECT TO 6" PVC UNDERDRAINS (TYP.6) FROM SAND FILTER #3. ALL WORK TO BE PERFORMED BY CONTRACTOR.
20. NEW 8" SDR 35 PVC SEWER, SLOPE AT 1% TO NEW SMH #17. PROVIDE 8"X8"X6" PVC REDUCING TEES, 6" PVC 45° BENDS, 6" PVC SPOOL PIECES AND 6" FLEXIBLE COUPLINGS TO CONNECT TO 6" PVC UNDERDRAINS (TYP.6) FROM SAND FILTER #4. ALL WORK TO BE PERFORMED BY CONTRACTOR.
21. NEW 8" PVC CLEANOUT AT SAND FILTER #3 (BY CONTRACTOR)
22. NEW 8" PVC CLEANOUT AT SAND FILTER #4 (BY CONTRACTOR)
23. 4" DI FORCEMAIN FROM EFFLUENT PUMP STATION TO UV DISINFECTION BLDG (BY CONTRACTOR)
24. 2" SDR 21 PVC UV CHANNEL DRAIN LINE, SLOPE AT 1% AND CONNECT TO DRAIN LINE OUT OF VALVE VAULT (BY CONTRACTOR)
25. 8" C900 PVC OUTFALL SEWER, SLOPE AT 1% TO NEW SMH #18 (BY CONTRACTOR)
26. 8" SDR 35 PVC OUTFALL SEWER, SLOPE AT 2% TO NEW SMH #19 (BY CONTRACTOR)
27. 8" SDR 35 PVC OUTFALL SEWER, SLOPE AT 2% TO CONNECTION WITH EXISTING 8" PVC OUTFALL PIPING UPSTREAM OF EXISTING SAMPLING MH (BY CONTRACTOR)
28. MOUNT PUMP CONTROL PANEL (CTRL-100) REMOTE ALARM LIGHT (BY CONTRACTOR) ON OUTDOOR BACKBOARD PROVIDED BY ELECTRICAL CONTRACT.

NOTES

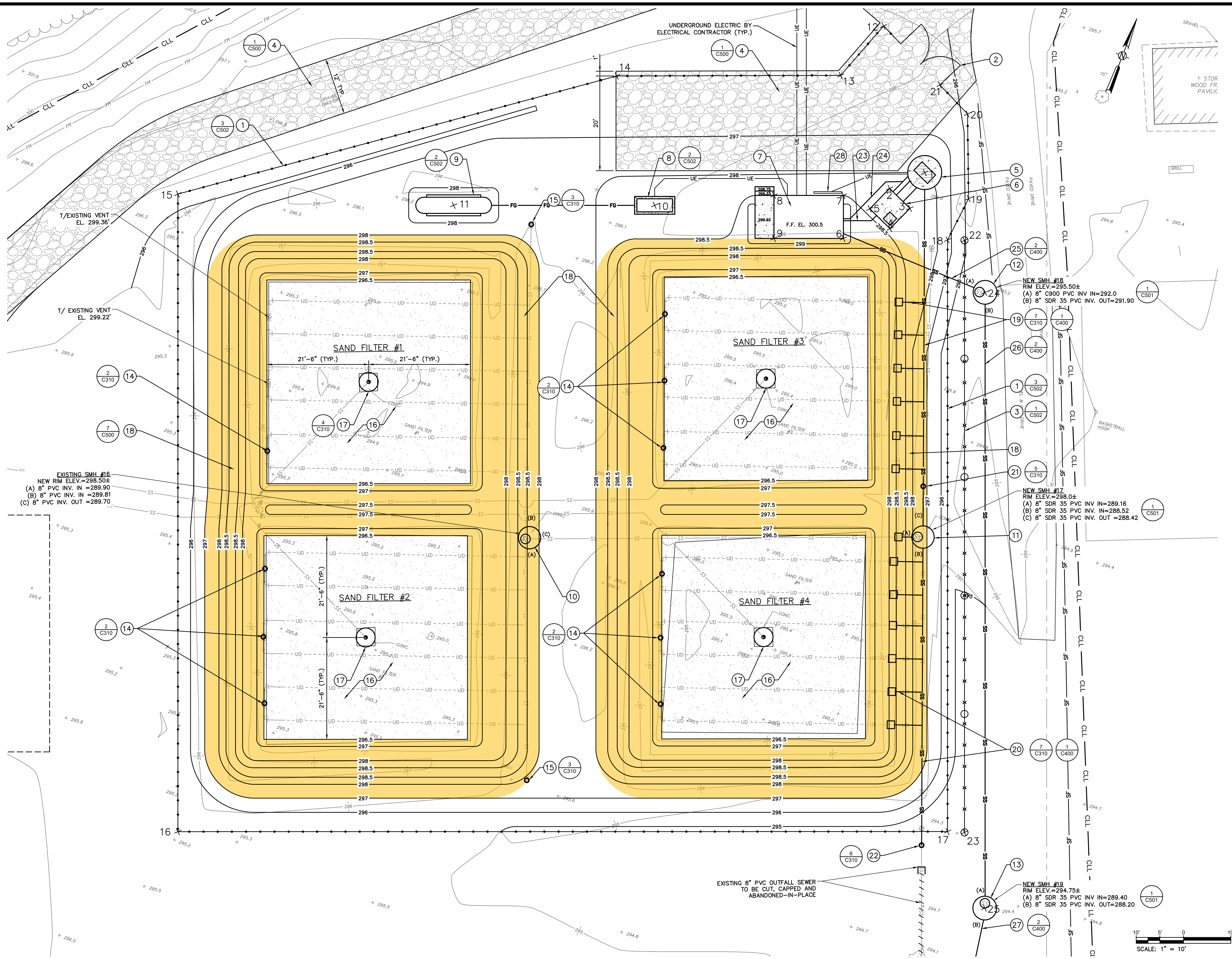
1. PROVIDE BLEND OF 400 CY CLAY AND 100 CY OF THE EXISTING FILTER SAND REMOVED FOR RAISING THE SAND FILTER BERMS. ON-SITE BLENDING OF CLAY AND EXISTING FILTER SAND SHALL BE PERFORMED BY THE CONTRACTOR. REFER TO THE LEGEND AND PLAN THIS SHEET FOR THE LIMITS OF THE CLAY FILL.
2. FOR RAISING GRADE IN ALL OTHER AREAS (I.E. OUTSIDE LIMITS OF CLAY FILL), PROVIDE APPROXIMATELY 200 CY OF SUITABLE (CLEAN) FILL AND BLEND WITH THE REMAINING 170 CY OF EXISTING FILTER SAND REMOVED. ON-SITE BLENDING OF SUITABLE (CLEAN) FILL AND EXISTING FILTER SAND SHALL BE PERFORMED BY THE CONTRACTOR.

LEGEND

🟨 LIMITS OF CLAY FILL FOR RAISING SAND FILTER BERMS

SITE LAYOUT AND STRUCTURE POINTS

POINT #	DESCRIPTION	EASTING	NORTHING	ELEVATION
1	WETWELL CENTER - EFFLUENT PUMP STATION	765876.3559'	1968013.6769'	298.50'
2	N. CORNER - VALVE VAULT	765870.5409'	1968007.9593'	298.75'
3	E. CORNER - VALVE VAULT	765876.0264'	1968005.5284'	298.75'
4	S. CORNER - VALVE VAULT	765873.5955'	1968000.0429'	298.75'
5	W. CORNER - VALVE VAULT	765868.1100'	1968002.4738'	298.75'
6	S.E. CORNER - UV BLDG	765865.0504'	1967994.6811'	300.50'
7	N.E. CORNER - UV BLDG	765861.9033'	1968003.2022'	300.50'
8	N.W. CORNER - UV BLDG	765848.1450'	1967998.1207'	300.50'
9	S.W. CORNER - UV BLDG	765851.2922'	1967989.5996'	300.50'
10	CONCRETE PAD CENTER - GENERATOR	765825.2325'	1967987.4327'	298.50'
11	CONCRETE PAD CENTER - PROPANE TANK	765785.3997'	1967972.7209'	298.50'
12	FENCE	765857.4769'	1968039.7045'	
13	FENCE	765852.5761'	1968026.7643'	
14	FENCE	765808.2483'	1968010.2707'	
15	FENCE	765729.9339'	1967954.7732'	
16	FENCE	765776.5700'	1967828.5048'	
17	FENCE	765929.0739'	1967884.8554'	
18	FENCE	765885.8054'	1968002.0062'	
19	FENCE	765886.9469'	1968011.7446'	
20	FENCE	765880.5467'	1968028.4209'	
21	FENCE	765872.9426'	1968032.1401'	
22	END POST - SPORTS NETTING	765889.1816'	1968003.1723'	
23	END POST - SPORTS NETTING	765932.4897'	1967885.9144'	
24	MANHOLE CENTER - NEW SMH #18	765897.0780'	1967994.3882'	295.50' ±
25	MANHOLE CENTER - NEW SMH #19	765942.0497'	1967872.4155'	294.75'±



SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
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STATE OF NEW YORK
MICHAEL D. PANICHELLI
LICENSED PROFESSIONAL ENGINEER
074751

DATE

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THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

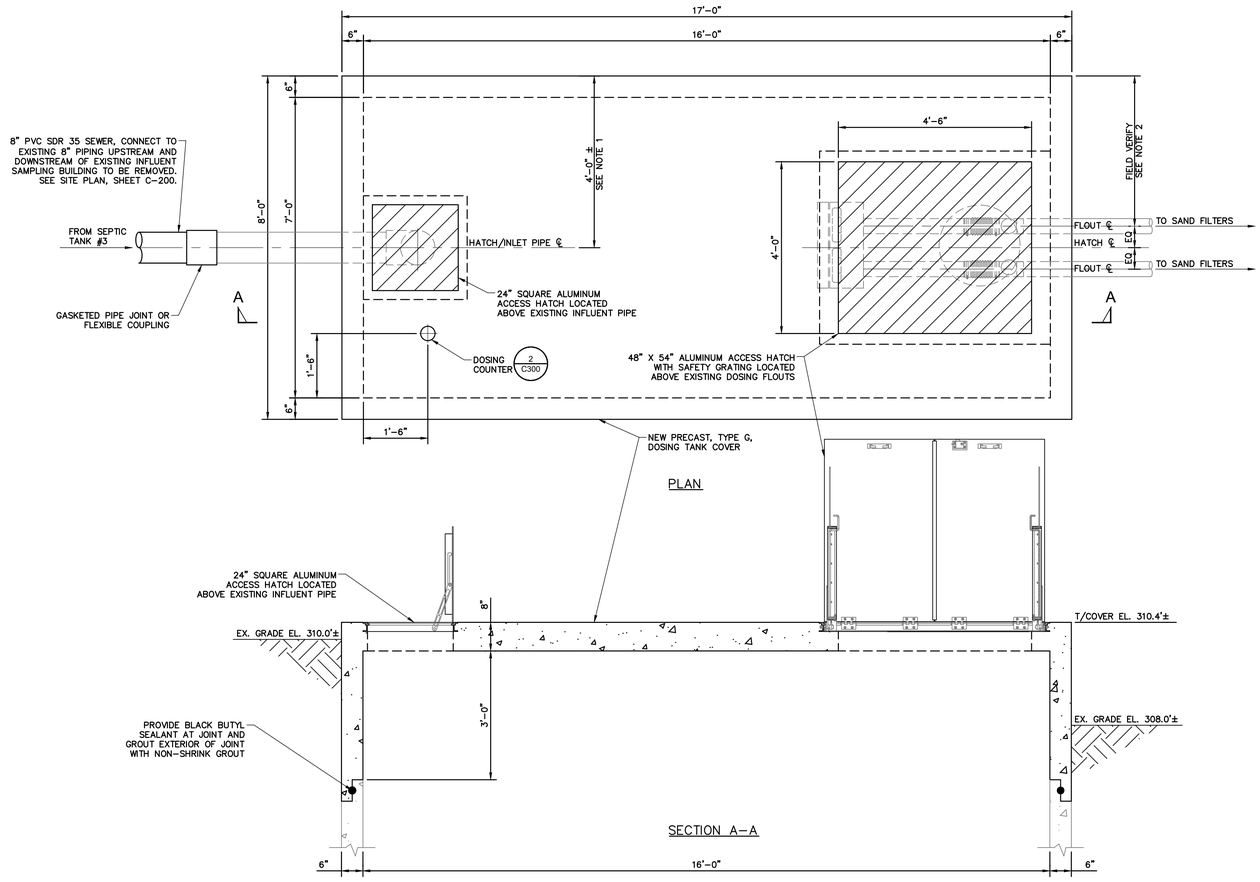
ENLARGED SITE PLAN

ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

C-210

File Name: F:\MJ1075\1075.02 Wadhams WWTP\C-210 - SAND FILTER ENLARGED PLAN.dwg (Layout: C-210)
Date: Tue, Dec 15, 2020 - 11:23 AM (Name: mdrislane)

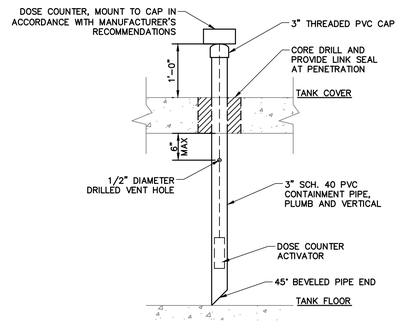


NOTES:

1. PRIOR TO FURNISHING COVER, CONTRACTOR SHALL FIELD VERIFY LOCATION OF INLET PIPE INTO EXISTING TANK TO DETERMINE FINAL LOCATION OF COVER OPENING ABOVE INLET. REFLECT FIELD DIMENSIONS ON PRECAST COVER SHOP DRAWING TO BE SUBMITTED FOR APPROVAL. FIELD VERIFICATION METHOD MAY INCLUDE BUT NOT BE LIMITED TO EXCAVATING AND EXPOSING LOCATION OF UNDERGROUND INLET PIPE INTO TANK.
2. PRIOR TO FURNISHING COVER, CONTRACTOR SHALL FIELD VERIFY LOCATION OF FLOUT CENTERLINES IN TANK. CENTERLINE OF 48" X 54" HATCH SHALL BE SET EQUALLY DISTANCE FROM THE CENTERLINE OF THE FLOUTS. REFLECT FIELD DIMENSIONS ON PRECAST COVER SHOP DRAWING TO BE SUBMITTED FOR APPROVAL. FIELD VERIFICATION METHODS MAY INCLUDE BUT NOT BE LIMITED TO EXCAVATING AND EXPOSING LOCATION OF FLOUT UNDERGROUND OUTLET PIPES FROM TANK OR PERFORMING FIELD MEASUREMENTS FROM WITHIN TANK INTERIOR VIA ACCESS FROM EXISTING 36" RISERS/COVERS.
3. PRESSURE WASH CLEAN EXISTING TANK TO REMAIN AND FLOUT DOSING SYSTEM. TOWN SHALL BE RESPONSIBLE FOR DRAINING TANK AND REMOVAL OF RESIDUAL WASH WATER.

1 DOSING TANK COVER REPLACEMENT DETAIL

SCALE: N.T.S.



ELEVATION

2 DOSING COUNTER DETAIL

SCALE: N.T.S.

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

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DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

STATE OF NEW YORK — MICHAEL D. FAGAN — LICENSED PROFESSIONAL ENGINEER — 074751

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

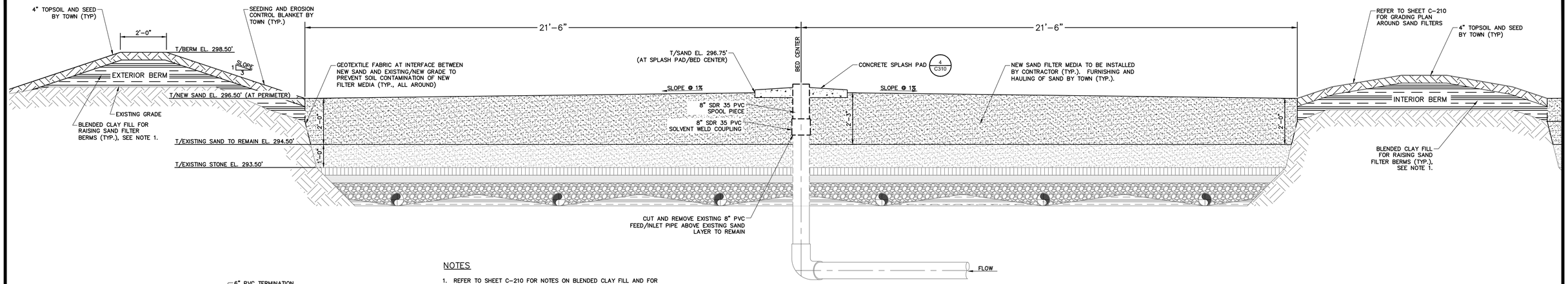
DOSING TANK PLAN, SECTION AND DETAILS

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

C-300

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-300 SEPTIC TANKS & DOSING TANK DETAILS.dwg (Layout: C-300)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrislane)



NOTES

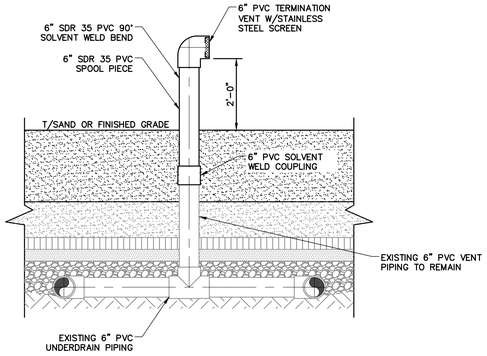
1. REFER TO SHEET C-210 FOR NOTES ON BLENDED CLAY FILL AND FOR PLAN SHOWING LIMITS OF CLAY FILL FOR RAISING SAND FILTER BERMS.

1 TYPICAL SAND FILTER SECTION

SCALE: 1/2" = 1'-0"

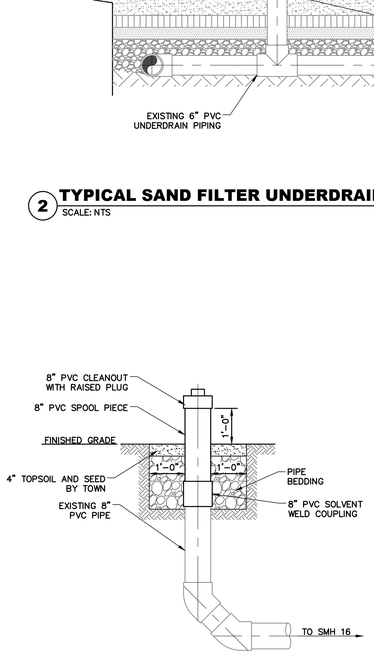
12" 6" 0 1' 2' 3' 4' 5'

SCALE: 1/2"=1'-0"



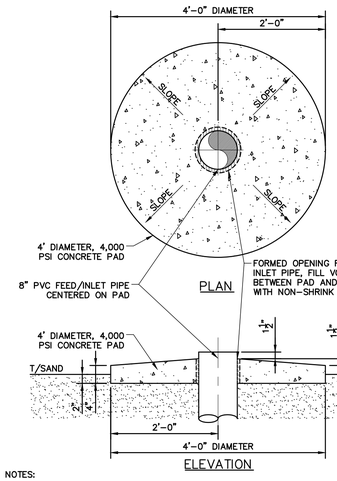
2 TYPICAL SAND FILTER UNDERDRAIN VENT EXTENSION

SCALE: NTS



3 SAND FILTERS #1 & #2 CLEANOUT EXTENSION

SCALE: NTS

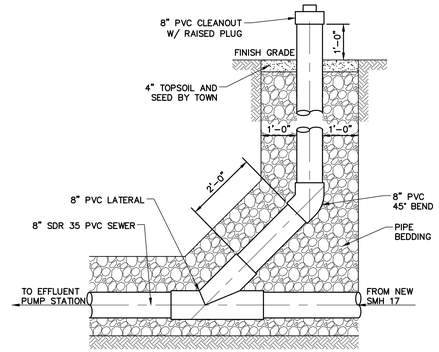


NOTES:

1. CONCRETE PADS SHALL BE CONSTRUCTED OUTSIDE OF THE FILTERS. PLACEMENT AND CURING OF CONCRETE SHALL NOT BE ALLOWED WITHIN THE FILTERS.

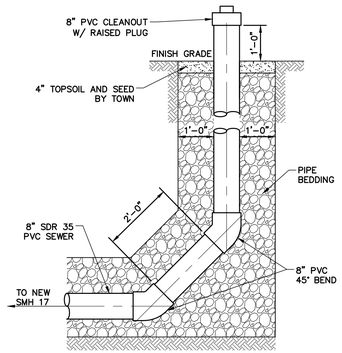
4 SAND FILTER INLET / FEED TYPICAL CONCRETE SPLASH PAD

SCALE: NTS



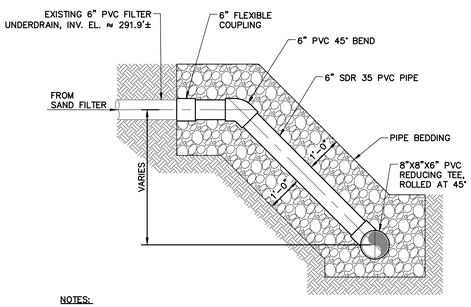
5 SAND FILTER #3 CLEANOUT DETAIL

SCALE: NTS



6 SAND FILTER #4 CLEANOUT DETAIL

SCALE: NTS



NOTES:

1. REMOVE EXISTING UNDERDRAIN PIPING WITHIN LIMITS OF NEW WORK

7 SAND FILTERS #3 & #4 UNDERDRAIN CONNECTION DETAIL

SCALE: NTS

SUBMITTAL / REVISIONS

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1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
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CHECKED BY:	CLD

LICENSED STATE OF NEW YORK RICHARD D. PATCHEN 074751 PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

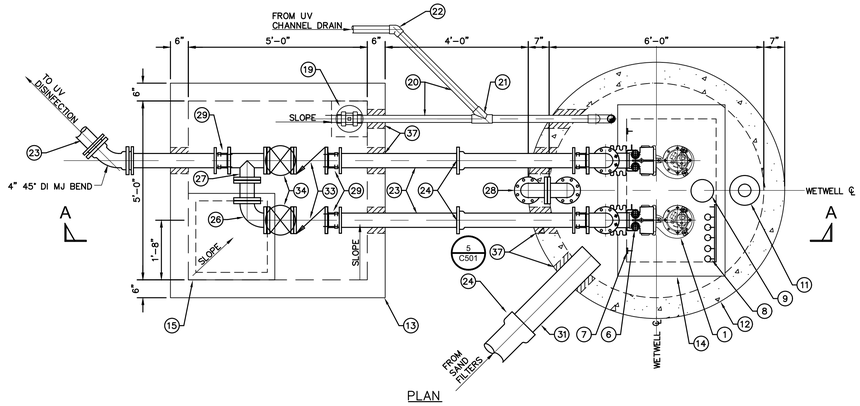
SAND FILTERS SECTION AND DETAILS

ESSEX COUNTY NEW YORK

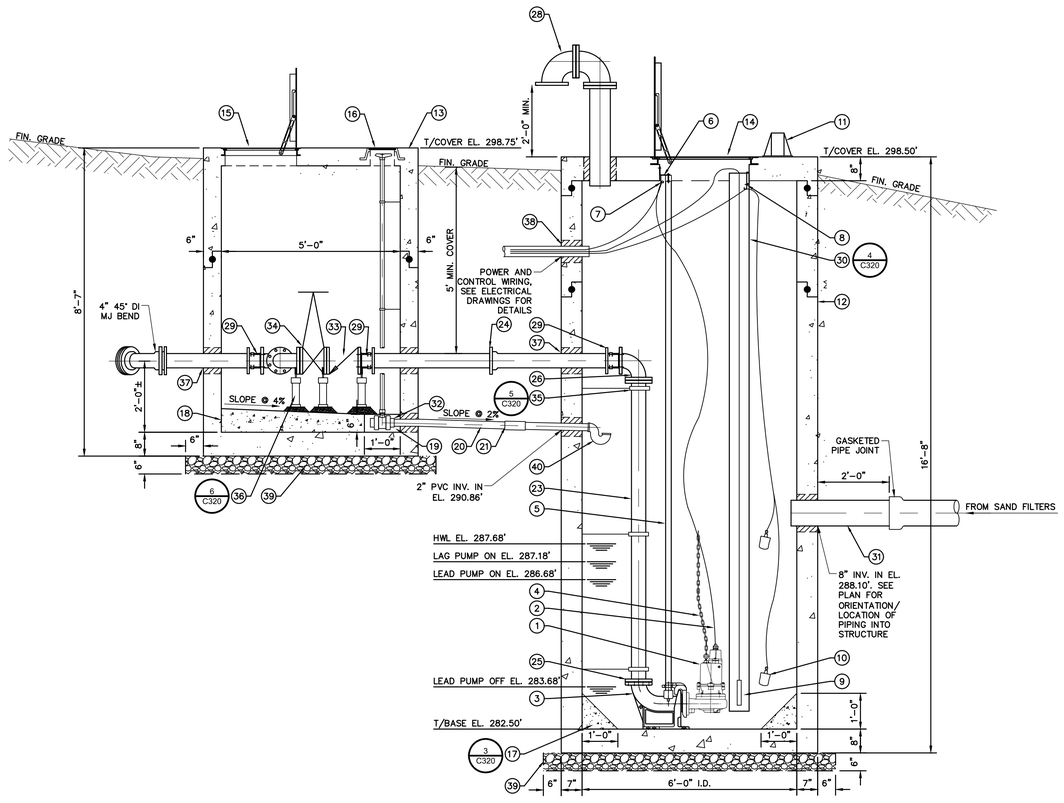
SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

C-310

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-310 SAND FILTER PLAN SECTION DETAILS.dwg (Layout: C-310)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrisiane)



PLAN

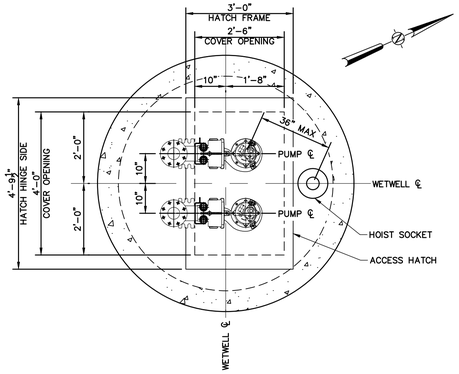


SECTION A–A

1 EFFLUENT PUMP STATION PLAN AND SECTION

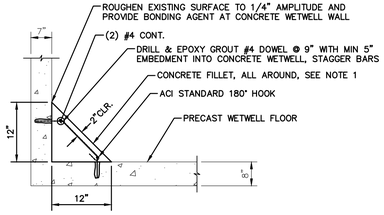
SCALE: 1/2" = 1'-0"

SCALE: 1/2"=1'-0"



2 WETWELL COVER PLAN

SCALE: 1/2" = 1'-0"

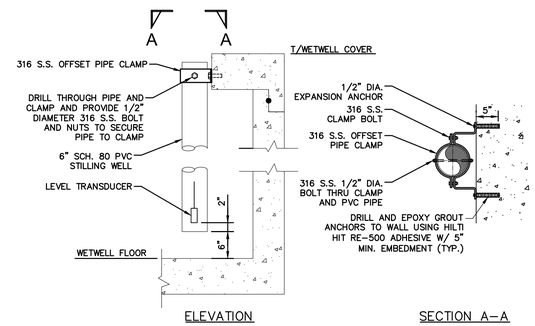


NOTE:

1. MIN. 4,000 PSI COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE AT 28 DAYS.

3 WETWELL FILLET DETAIL

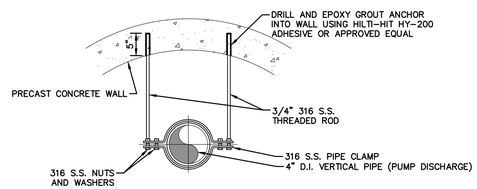
SCALE: N.T.S.



ELEVATION SECTION A–A

4 STILLING WELL MOUNTING DETAIL

SCALE: N.T.S.



5 VERTICAL PIPE SUPPORT DETAIL

SCALE: N.T.S.

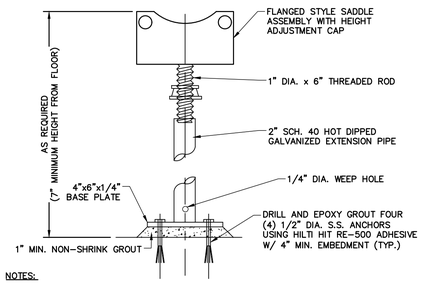
NOTES:

1. THERE SHALL BE NO CONTROL WIRING OR POWER WIRING SPLICES IN THE WET WELL.
2. ALL ANCHORING HARDWARE AND SUPPORTS WITHIN THE WETWELL SHALL BE 316 STAINLESS STEEL.

KEYED NOTES

1. *SUBMERSIBLE PUMP (TYP. 2).
2. *SUBMERSIBLE POWER CABLE (TYP. EACH PUMP)
3. *3" X 4" PUMP BASE ELBOW (TYP. EACH PUMP)
4. *3/16" 316L S.S. PUMP LIFTING CHAIN (TYP. EACH PUMP)
5. *1.5" 316 S.S. PUMP GUIDE RAILS (TYP. 2 PER PUMP)
6. *316 S.S. UPPER GUIDE RAIL BRACKET W/ J-HOOK FOR PUMP LIFTING CHAIN
7. *316 S.S. BRACKET W/ J-HOOK FOR PUMP FACTORY CABLE (TYP.2)
8. *316 S.S. BRACKET W/ SIX (6) J-HOOKS FOR FLOATS AND TRANSDUCER CABLES
9. *LEVEL TRANSDUCER WITHIN 6" SCH. 80 PVC STILLING WELL.
10. *WEIGHTED LEVEL FLOATS (TYP. 2)
11. *316 S.S. FLOOR MOUNTED HOIST SOCKET. LOCATE SOCKET ON WETWELL COVER WITHIN 36" OF PUMPS.
12. 6' I.D. PRECAST CONCRETE WETWELL STRUCTURE. PROVIDE 2 ROWS OF BLACK BUTYL JOINT SEALANT AND GROUT INTERIOR AND EXTERIOR OF EACH JOINT WITH NON-SHRINK GROUT. PROVIDE 2 COATS OF COAL TAR EPOXY ON STRUCTURE EXTERIOR.
13. 5' X 5' (INTERIOR) PRECAST CONCRETE VALVE VAULT STRUCTURE. PROVIDE 2 ROWS OF BLACK BUTYL JOINT SEALANT AND GROUT INTERIOR AND EXTERIOR OF EACH JOINT WITH NON-SHRINK GROUT. PROVIDE 2 COATS OF COAL TAR EPOXY ON STRUCTURE EXTERIOR.
14. 30"x48" ALUMINUM ACCESS HATCH WITH SAFETY GRATING (WETWELL)
15. 30"x30" ALUMINUM ACCESS HATCH WITH SAFETY GRATING (VALVE VAULT)
16. MONUMENT COVER (VALVE VAULT)
17. 4,000 PSI CONCRETE FILLET
18. 4,000 PSI CONCRETE BENCH, SLOPE AT 1/2" PER FOOT TO SUMP
19. 12"x12"x6" (LxWxH) SUMP
20. 2" SDR 21 PVC, GASKETED DRAIN PIPE (FROM VALVE VAULT AND UV CHANNEL DRAIN) SLOPED AT 2% TO WETWELL
21. 2" SDR 21 PVC, GASKETED LATERAL
22. 2" SDR 21 PVC, GASKETED 45° BEND
23. 4" DI PIPE
24. 4" DI JOINT W/ FIELD LOK GASKET
25. 4" DI FLANGE
26. 4" DI FLANGED 90° BEND
27. 4" DI FLANGED TEE
28. 4" DI VENT PIPE W/ TWO FLANGED DI 90° BENDS AND 316 S.S. INSECT SCREEN ON OUTLET
29. 4" RESTRAINED FLANGE ADAPTER
30. 6" SCH. 80 PVC PIPE (STILLING WELL)
31. 8" SDR 26 PVC SEWER PIPE
32. 2" PVC TRUE UNION BALL VALVE (NORMALLY CLOSED) WITH VALVE EXTENSION STEM
33. 4" FLANGED SWING CHECK VALVE (TYP.2)
34. 4" FLANGED GATE VALVE W/ HANDWHEEL (TYP.2)
35. 316 S.S. VERTICAL PIPE SUPPORT (PUMP DISCHARGE PIPING IN WETWELL)
36. ADJUSTABLE FLANGE TYPE PIPE SUPPORT
37. WATERTIGHT PIPE CONNECTOR (TYP. ALL PIPE PENETRATIONS UNLESS OTHERWISE NOTED)
38. ELECTRICAL CONDUIT PENETRATION(S) INTO WETWELL, CORE HOLE(S) AND PROVIDE WATERTIGHT PIPE CONNECTOR(S). COORDINATE LOCATION OF CONDUIT PENETRATIONS WITH ELECTRICAL CONTRACTOR.
39. 6" CRUSHED STONE WRAPPED IN GEOTEXTILE FILTER FABRIC, MIRAFI 160N OR APPROVED EQUAL.
40. 2" DWV PVC SEWER TRAP. PROVIDE PVC ADAPTER AS NECESSARY TO CONNECT TO SDR 21 PVC PIPE.

* INDICATES EQUIPMENT AND COMPONENTS TO BE FURNISHED BY PUMP MANUFACTURER.



NOTES:

1. PIPE SUPPORT COMPONENTS SHALL BE PROVIDED ELECTRO-GALVANIZED FINISH.
2. ADJUSTABLE FLANGE STYLE PIPE SUPPORTS SHALL BE AS MANUFACTURED BY STANDON PIPE SUPPORTS INC., TRUMBULL INDUSTRIES INC. OR APPROVED EQUAL.

6 ADJUSTABLE FLANGED PIPE SUPPORT

SCALE: N.T.S.

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-320 PUMP PLAN - SECTION- AND DETAILS.dwg (Layout: C-320)
Date: Tue, Dec 15, 2020 - 11:11 AM (Name: mdrisiane)

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No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
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STATE OF NEW YORK — MICHAEL D. PATTERSON — LICENSED PROFESSIONAL ENGINEER — 074751

DATE DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

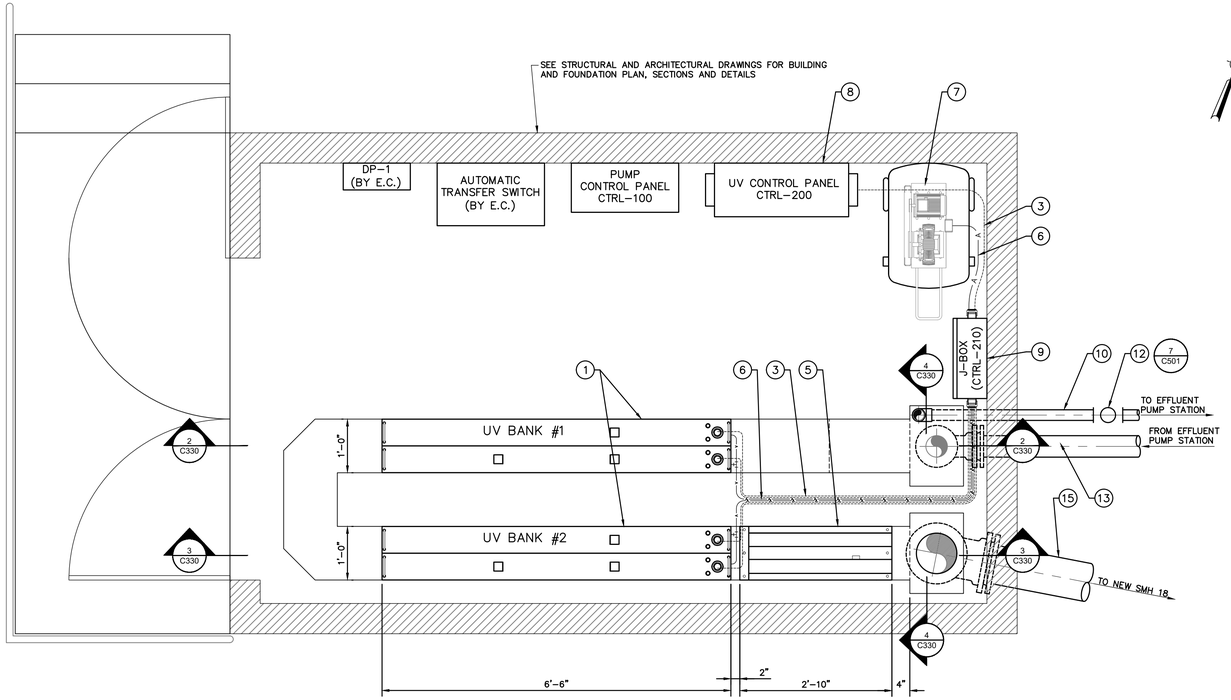
TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

EFFLUENT PUMP STATION PLAN, SECTION AND DETAILS

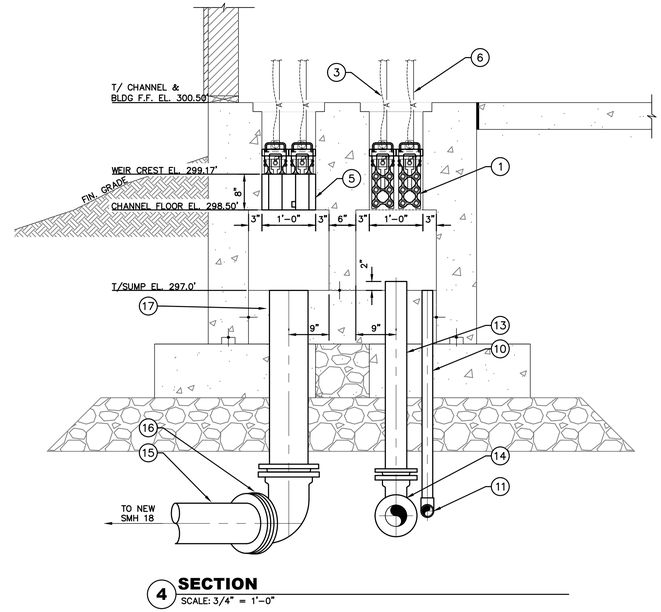
ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

C-320



1 UV DISINFECTION PLAN
SCALE: 3/4" = 1'-0"

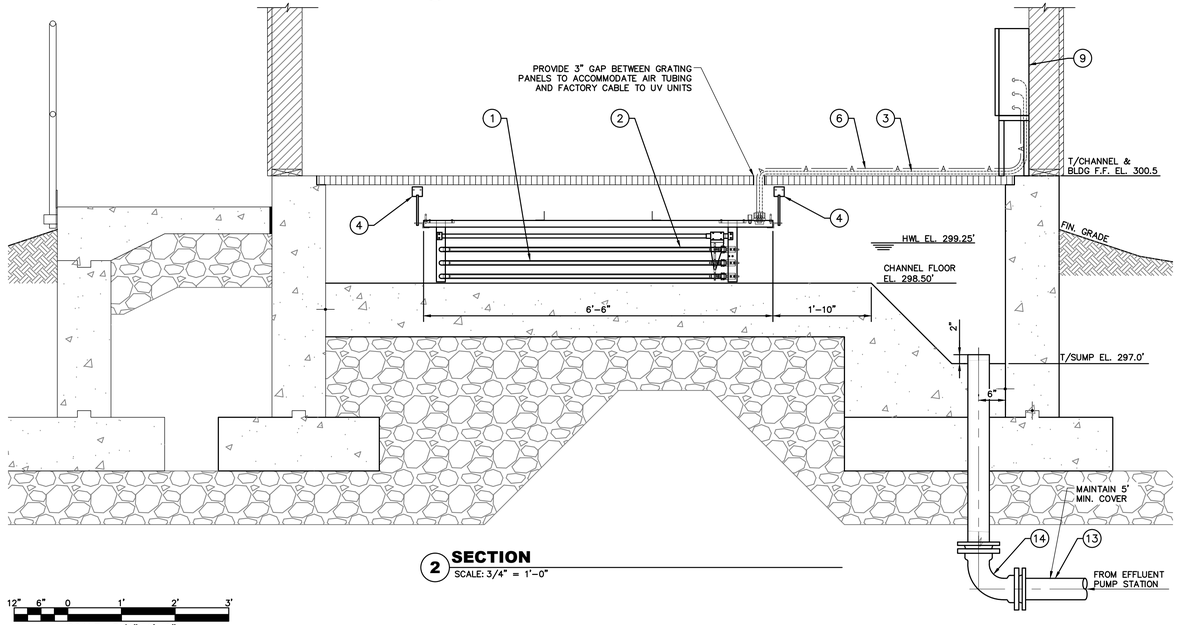


4 SECTION
SCALE: 3/4" = 1'-0"

KEYED NOTES:

1. *UV LAMP MODULE (TYP. 2 PER UV BANK)
2. *UV INTENSITY SENSOR (1 PER BANK)
3. *FACTORY CABLES FOR UV LAMP MODULES AND UV INTENSITY SENSOR. GENERAL CONTRACTOR TO FURNISH AND ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT TO UV UNITS, JUNCTION BOX (CTRL-200) AND UV CONTROL PANEL (CTRL-210). FACTORY CABLES FROM UV CONTROL PANEL TO JUNCTION BOX SHALL BE A MINIMUM OF 15' IN LENGTH. FACTORY CABLES FROM JUNCTION BOX TO UV MODULES SHALL BE A MINIMUM OF 15' IN LENGTH.
4. *316 S.S. MODULAR SUPPORT BRACKETING SYSTEM (EACH END OF UV BANK)
5. *304 S.S. EFFLUENT CONTROL WEIR W/DRAIN CAP. CONTRACTOR TO ANCHOR TO CHANNEL WITH 316 S.S. HARDWARE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATERPROOF, EXTERIOR GRADE CAULK AT WEIR EDGES ALONG CHANNEL FLOOR AND WALL.
6. *COMPRESSED AIR TUBING FROM COMPRESSOR TO JUNCTION BOX, AND FROM JUNCTION BOX TO UV LAMP MODULES (FOR AUTO WIPE/CLEAN SYSTEM)
7. *15 GAL PORTABLE AIR COMPRESSOR
8. *COMMON UV CONTROL/BCC PANEL (CTRL-200) FOR BOTH UV BANKS
9. *COMMON JUNCTION BOX (CTRL-210) FOR BOTH UV BANKS
10. 2" SDR 21 PIPE (UV CHANNEL DRAIN), SLOPE @ 2%
11. 2" SDR 21 90° BEND
12. 2" CURB STOP W/ CURB BOX (NORMALLY CLOSED)
13. 4" DI PIPE (EFFLUENT PUMP STATION FORCEMAIN)
14. 4" DI MJ 90° BEND
15. 8" C900 PVC PIPE (UV EFFLUENT TO NEW SMH 18)
16. 8" DI MJ 90° BEND
17. WATERTIGHT PIPE CONNECTOR (TYP. ALL PENETRATIONS UNLESS OTHERWISE NOTED)

* COMPONENT FURNISHED BY UV MANUFACTURER



2 SECTION
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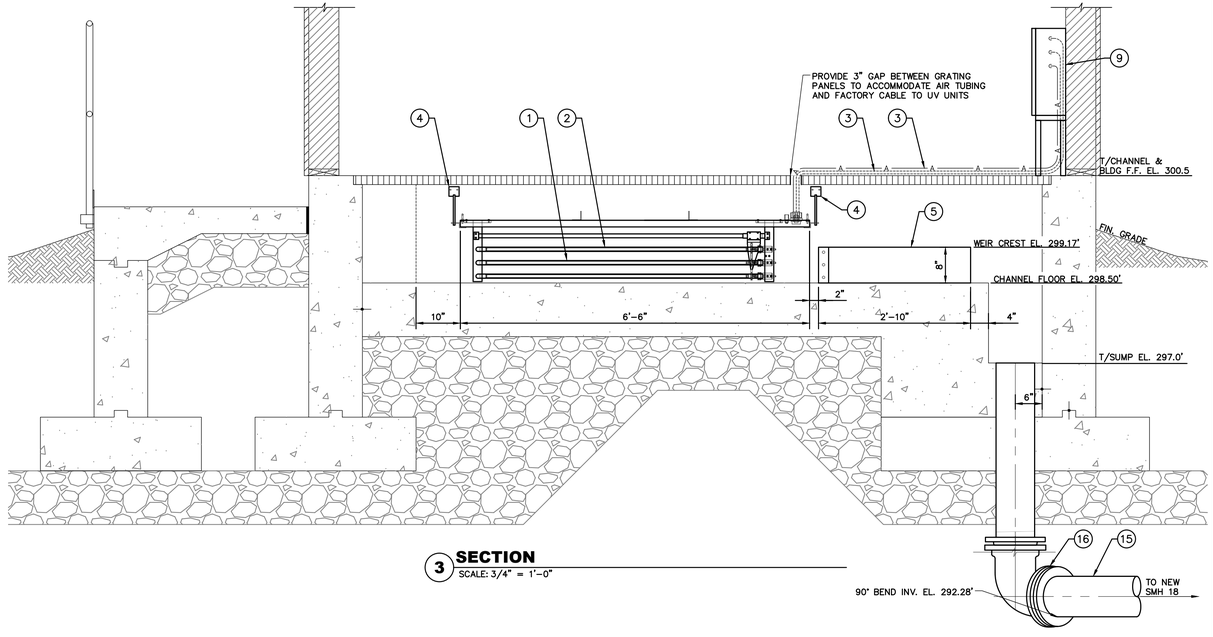

3 SECTION
SCALE: 3/4" = 1'-0"

12" 6" 0 1' 2' 3'
SCALE: 3/4"=1'-0"

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Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)

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CHECKED BY:	CLD

STATE OF NEW YORK — MICHAEL D. FAUCHEREAU — 074751 — LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

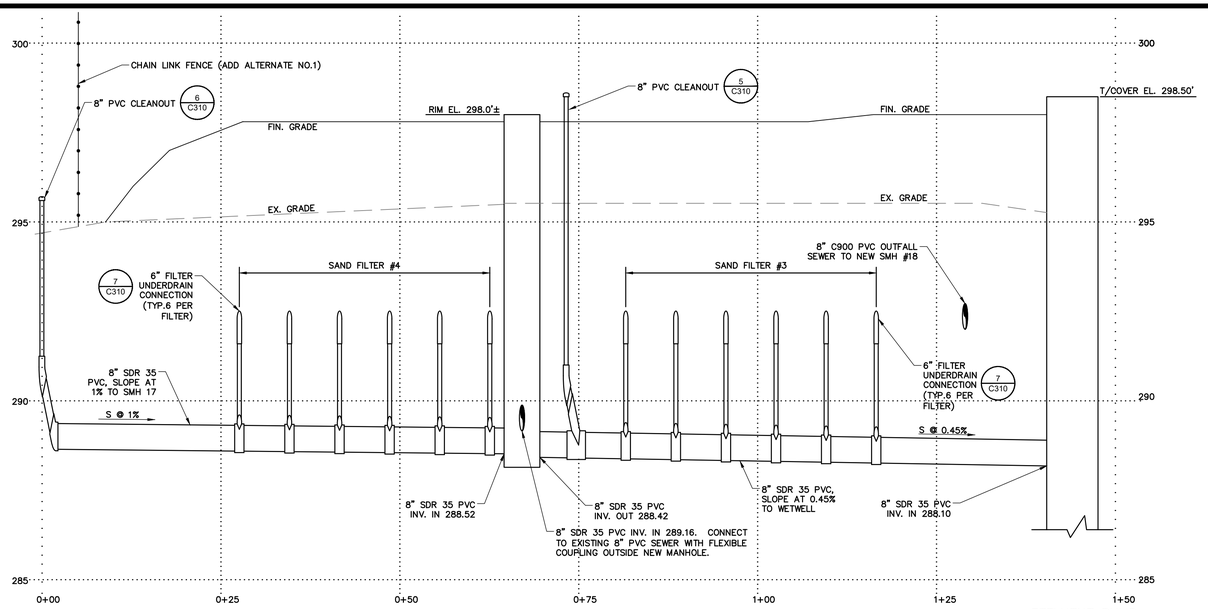
TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

UV DISINFECTION PLAN, SECTION AND DETAILS

ESSEX COUNTY NEW YORK

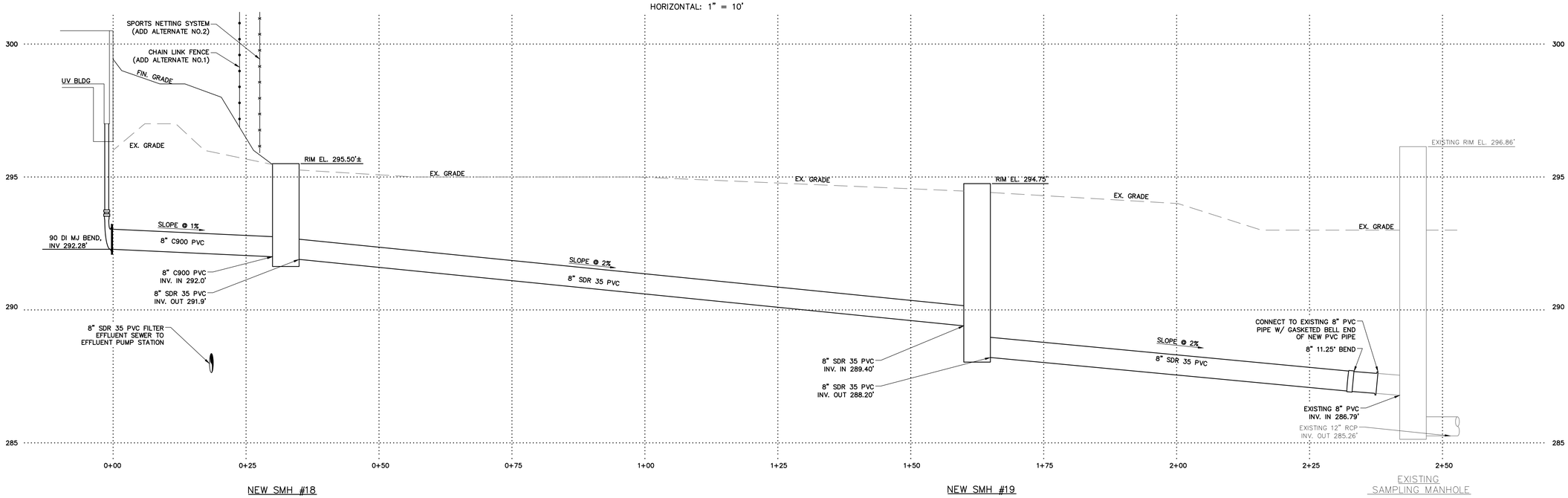
SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

C-330



1 SAND FILTERS #3 & #4 EFFLUENT SEWER PROFILE

SCALE:
VERTICAL: 1" = 2'
HORIZONTAL: 1" = 10'



2 OUTFALL SEWER PROFILE

SCALE:
VERTICAL: 1" = 2'
HORIZONTAL: 1" = 10'

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-400 OUTFALL SEWER.dwg (Layout: C-400)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)

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CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

STATE OF NEW YORK · MICHAEL D. PALMATEER · 074151 · LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

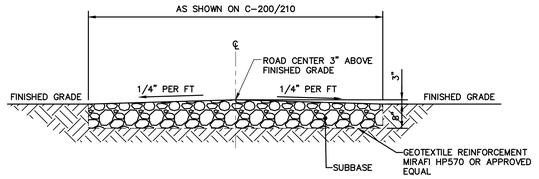
TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

SAND FILTER EFFLUENT AND OUTFALL SEWER PROFILES

ESSEX COUNTY NEW YORK

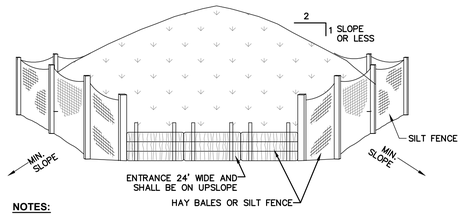
SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

C-400



1 GRAVEL DRIVEWAY DETAIL (BY TOWN)

SCALE: NTS

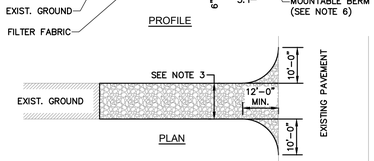


NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2 HORIZ ON 1 VERT.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

2 TEMPORARY SOIL STOCKPILE

SCALE: NTS

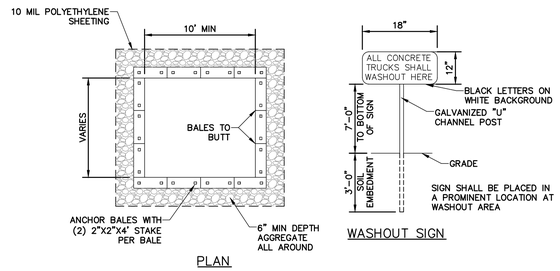


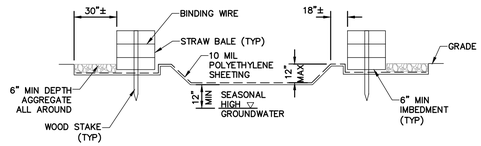
CONSTRUCTION ENTRANCE SPECIFICATIONS:

1. STONE SIZE – USE MIN 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS – NOT LESS THAN SIX (6) INCHES.
3. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
4. LENGTH – NOT LESS THAN FIFTY (50) FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A THIRTY (30) FOOT MINIMUM LENGTH WOULD APPLY).
5. FILTER FABRIC – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

5 STABILIZED CONSTRUCTION ENTRANCE (BY TOWN)

SCALE: NTS





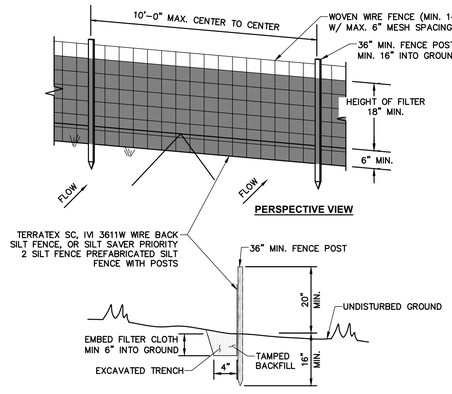
TYPICAL SECTION

NOTES:

1. COORDINATE WITH ENGINEER FOR LOCATION OF CONCRETE WASHOUT AREA.
2. CONTAINMENT MUST BE STRUCTURALLY SOUND, LEAK FREE AND CONTAIN ALL LIQUID WASTES.
3. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTE GENERATED.
4. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
5. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
6. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
7. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

3 CONCRETE WASHOUT AREA

SCALE: NTS

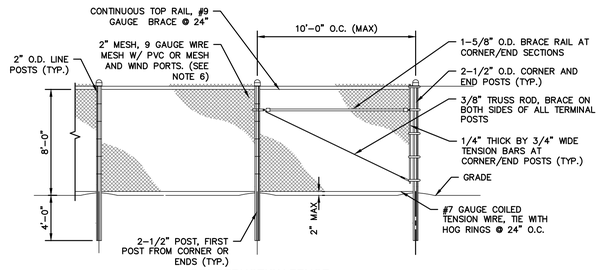


NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX. MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
6. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
7. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.

6 SILT FENCE INSTALLATION (BY TOWN)

SCALE: NTS

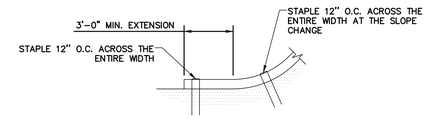


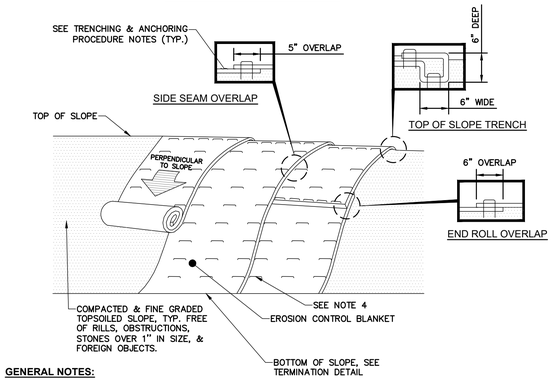
NOTES:

1. TEMPORARY POSTS TO BE PNEUMATICALLY DRIVEN TO DEPTH SHOWN. CONTRACTOR TO CORE DRILL EXISTING ASPHALT OR CONCRETE SURFACES PRIOR TO INSTALLING POSTS.
2. IF ROCK IS ENCOUNTERED BEFORE DRIVEN DEPTH SHOWN, SECURE POST IN 12" DIAMETER CONCRETE FOOTING.
3. REMOVE FENCE AND RESTORE LAWN, ASPHALT OR CONCRETE SURFACES TO PRE-CONSTRUCTION CONDITIONS AT COMPLETION OF CONTRACT.
4. ALL COMPONENTS TO BE GALVANIZED STEEL.
5. DRIVEN POSTS MAY BE SUBSTITUTED WITH 3'X3' SQUARE FENCE POST PLATES. PROVIDE BALLASTS FOR PLATES BASED UPON PREVAILING CONDITIONS OF THE SITE.
6. REFER TO DIVISION ONE SPECIFICATIONS FOR ADDITIONAL TEMPORARY FENCING REQUIREMENTS.

4 TEMPORARY CONSTRUCTION FENCE AND GATE

SCALE: NTS





GENERAL NOTES:

1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.
2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. SECURE ALL PRODUCT OVERLAPS. OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE.
3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL.
4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAYBE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.

TRENCHING & ANCHORING PROCEDURE NOTES:

SIDE SEAM OVERLAP: THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.

TOP OF SLOPE TRENCH: BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6"D x 6"W TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.

END ROLL OVERLAP: CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE-STYLE) WITH A 6" OVERLAP. STAPLE THRU OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

7 EROSION CONTROL BLANKET INSTALLATION (BY TOWN)

SCALE: NTS

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

STATE OF NEW YORK · MICHAEL D. PANTUSO · 075173 · LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

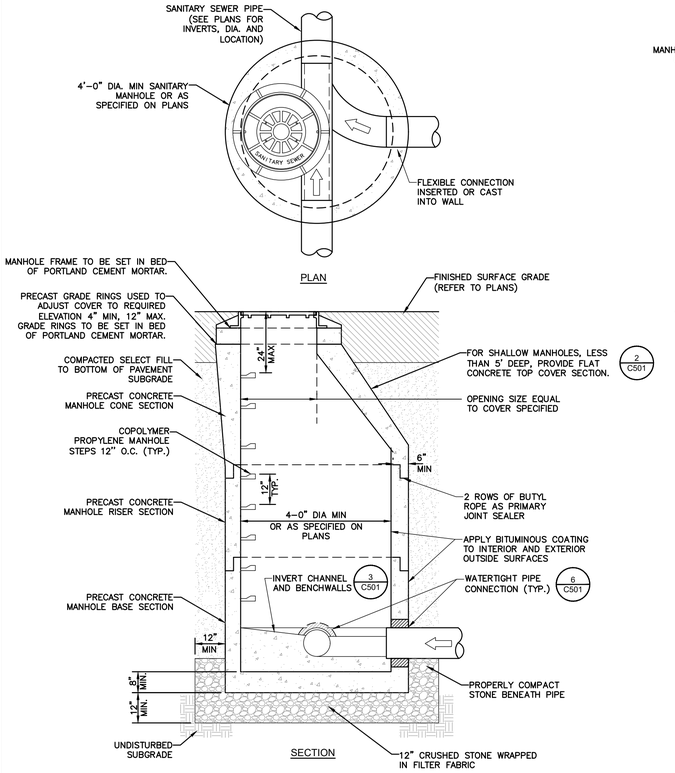
SITE DETAILS 1

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

C-500

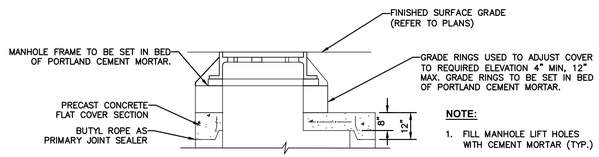
File Name: F:\MJ\1075\10775.02 Wadhams WWTP\C-500 MISC. DETLS.dwg (Layout: C-500)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)



NOTE:

1. FILL MANHOLE LIFT HOLES WITH CEMENT MORTAR (TYP.)

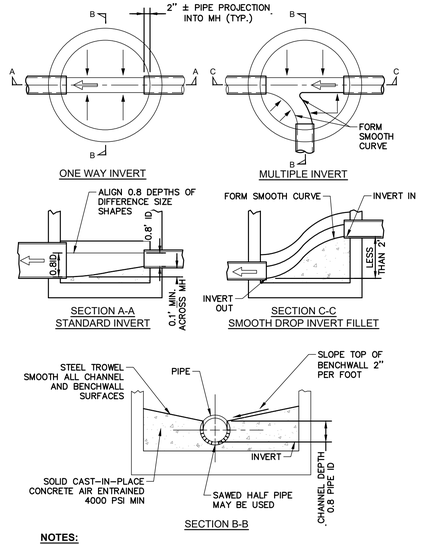
1 STANDARD SANITARY MANHOLE DETAIL
SCALE: NTS



NOTE:

1. FILL MANHOLE LIFT HOLES WITH CEMENT MORTAR (TYP.)

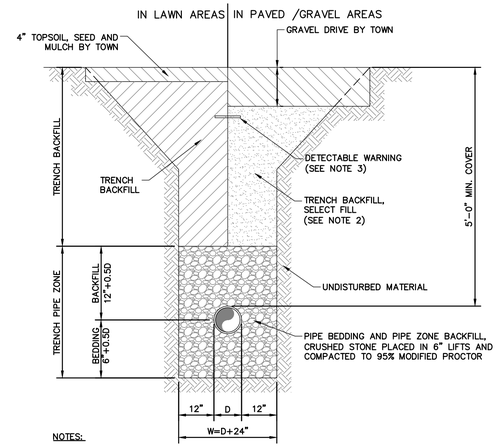
2 MANHOLE WITH FLAT CONCRETE TOP COVER
SCALE: NTS



NOTES:

1. INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO SHEET C-211 FOR INLET AND OUTLET ORIENTATION.

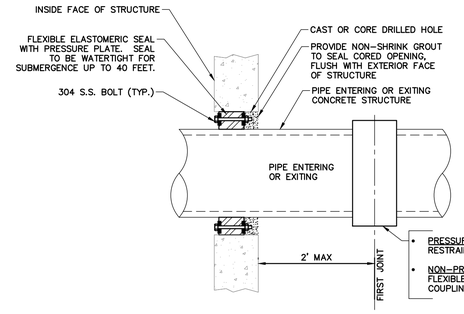
3 INVERT, CHANNEL AND BENCHWALLS
SCALE: NTS



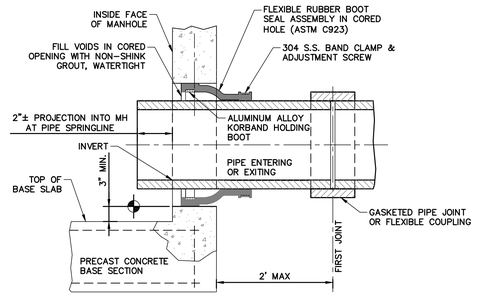
NOTES:

1. D=OUTSIDE PIPE DIAMATER.
2. ON-SITE EXCAVATED TRENCH MATERIAL MAY BE USED FOR TRENCH BACKFILL IF MEETING THE REQUIREMENTS OF SELECT FILL MATERIAL.
3. PLACE DETECTABLE WARNING TAPE 2' ABOVE PIPE, RUNNING CONTINUOUSLY THE ENTIRE LENGTH OF THE EXCAVATION. SUBCONTRACTOR SHALL VERIFY CONDUCTIVITY OF THE METAL CORE.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. REFER TO SPECIFICATION SECTION 310000 FOR TRENCH BACKFILL, PIPE BEDDING AND PIPE ZONE BACKFILL GRADATION AND COMPACTION REQUIREMENTS.

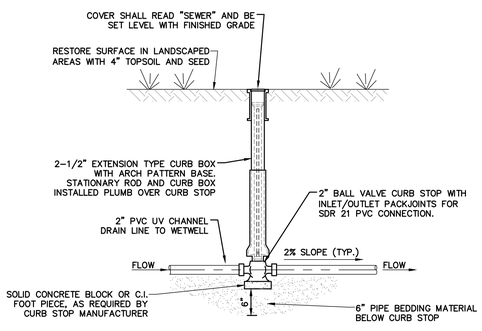
4 PIPE TRENCH AND BEDDING
SCALE: NTS



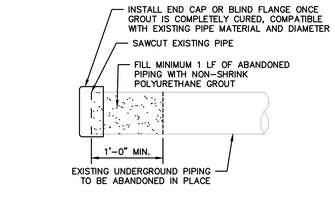
5 WATERTIGHT PIPE CONNECTION FOR WETWELL, VALVE VAULT & UV DISINFECTION
SCALE: NTS



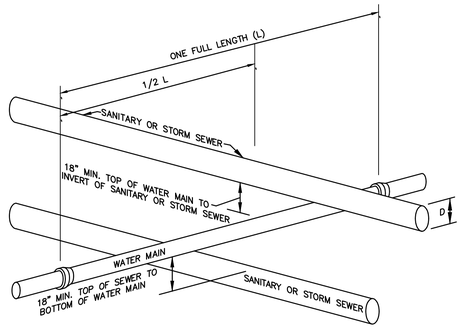
6 WATERTIGHT PIPE CONNECTION FOR SANITARY MANHOLES
SCALE: NTS



7 CURB STOP WITH CURB BOX DETAIL
SCALE: NTS



8 PIPE ABANDONMENT DETAIL
SCALE: NTS



9 WATER / SEWER SEPARATION REQUIREMENTS
SCALE: NTS

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

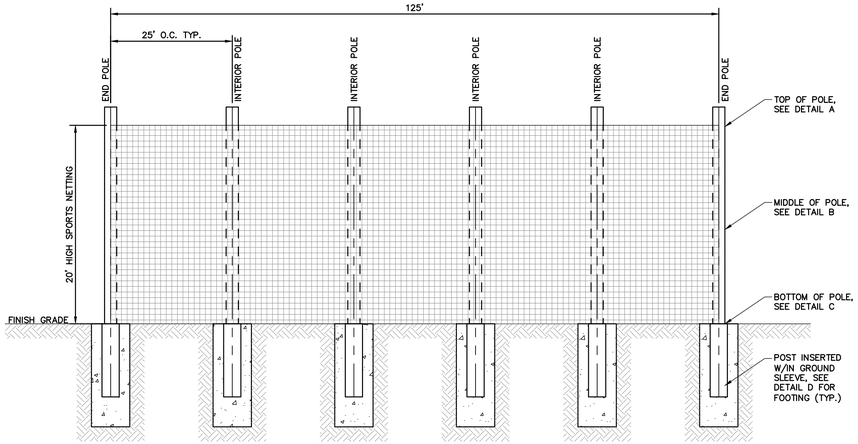
SITE DETAILS 2

ESSEX COUNTY NEW YORK

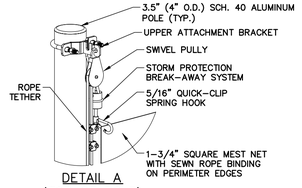
SCALE:	NONE
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

C-501

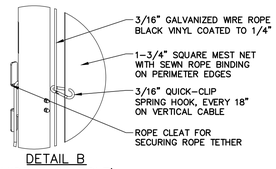
File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-500 MISC. DETLS.dwg (Layout: C-501)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)



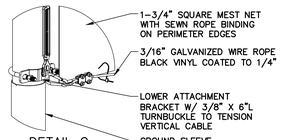
ELEVATION



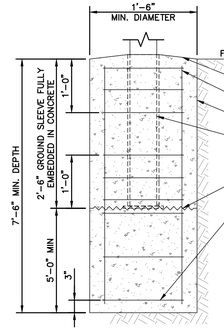
DETAIL A
(TOP OF POLE)



DETAIL B
(MIDDLE OF POLE)



DETAIL C
(BOTTOM OF POLE)



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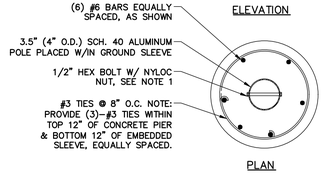


PLAN

DETAIL D
(GROUND SLEEVE TYP. FOOTING)

NOTES:

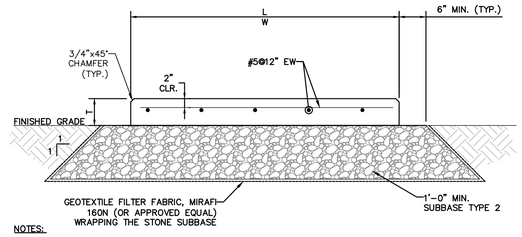
1. INSTALL GROUND SLEEVES WITH HEX BOLT PARALLEL TO THE NETTING RUN TO FACILITATE PROPER POLE ORIENTATION.
2. CONCRETE SHALL MEET THE FOLLOWING:
   A. 28 DAY STRENGTH = 5,000 PSI
   B. W/C RATIO = .40
   C. AIR ENTRAINMENT = 6% +/- 1.5%
2. REINFORCING BAR SHALL MEET ASTM A615 GRADE 60.
3. UNIT WEIGHT OF SOIL = 115PCF.
4. SOIL INTERNAL ANGLE OF FRICTION USED FOR DESIGN = 28 DEGREES.
5. MAX. POLE HEIGHT/SPACING = 20'/25'
6. WATER TABLE ASSUMED TO BE BELOW BOTTOM OF FOOTING.
7. PROVIDE BITUMINOUS OR ASPHALT COATING ON ALL BARE SURFACES OF EMBEDDED ALUMINUM.
8. COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR.

SYSTEM NOTES:

1. FOOTING FOR USE WITH #36 NYLON 1-3/4" SQUARE MESH NETTING
2. DESIGN WIND SPEED AT PIN FAILURE = 65 MPH
3. DESIGN WIND SPEED ON BARE POLE = 105MPH
4. POLES CAN BE DIRECTLY EMBEDDED IN LIEU OF USING SLEEVES

1 ADD-ALTERNATE NO. 2 SPORTS NETTING SYSTEM DETAILS

SCALE: NTS

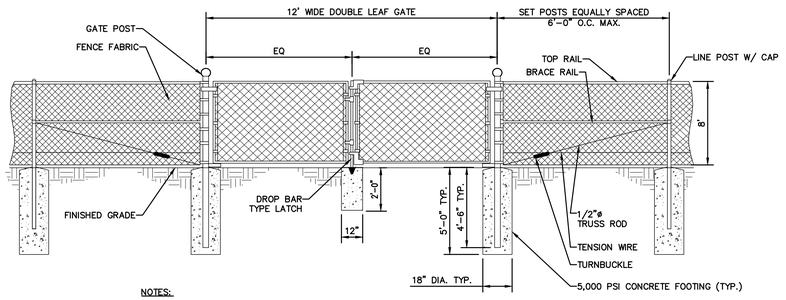


NOTES:

1. L= LENGTH OF EQUIPMENT BASE, PLUS 6"± EACH SIDE.
   W= WIDTH OF EQUIPMENT BASE, PLUS 6"± EACH SIDE.
   T= 8" (UNLESS OTHERWISE SHOWN OR REQUIRED TO CONNECT TO EXISTING AND/OR PROPOSED MECHANICAL SYSTEMS)
2. ANCHOR EQUIPMENT TO PAD AS DIRECTED BY EQUIPMENT MANUFACTURER.
3. CONFIRM FINAL EQUIPMENT PAD DIMENSIONS WITH EQUIPMENT MANUFACTURER.

2 CONCRETE PAD - GENERATOR & PROPANE TANK

SCALE: NTS



NOTES:

1. CHAIN LINK FENCE AND GATE TO BE FURNISHED AND INSTALLED BY TOWN.
2. PROVIDE BRACE AND TRUSS RODS AT ALL CORNERS AND FENCE SECTIONS ADJACENT TO GATES.

3 ADD-ALTERNATE NO. 1 CHAIN LINK FENCE AND DOUBLE LEAF GATE DETAIL

SCALE: NTS

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\C-500 MISC. DETLS.dwg (Layout: C-502)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJD	CLD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MJD
DESIGNED BY:	MJD
DRAWN BY:	AS
CHECKED BY:	CLD

MICHAEL D. FAUCETTE — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — 074751

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

SITE DETAILS 3

ESSEX COUNTY NEW YORK

SCALE: NONE
CONTRACT No.: G. E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

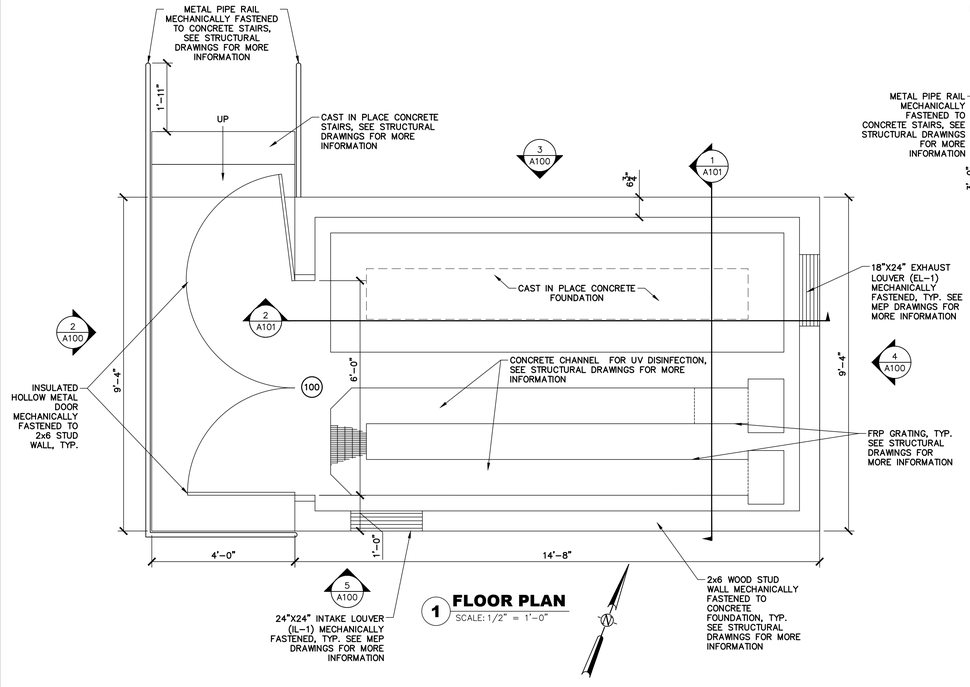
C-502

GENERAL CODE ITEMS:

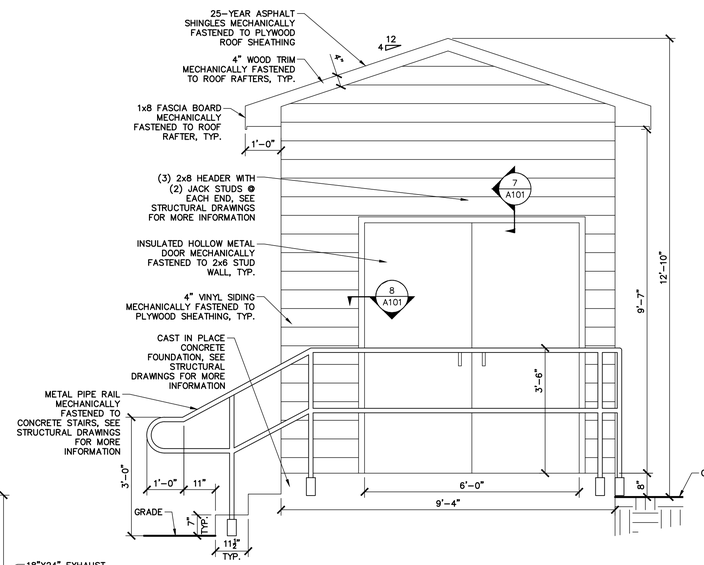
1. OCCUPANCY – U (SHED)
2. CONSTRUCTION TYPE – 5B
3. AREA – 140 SF
4. 1 EXIT – ACCEPTABLE
5. R-VALUE – NOT REQUIRED

CONSTRUCTION NOTES:

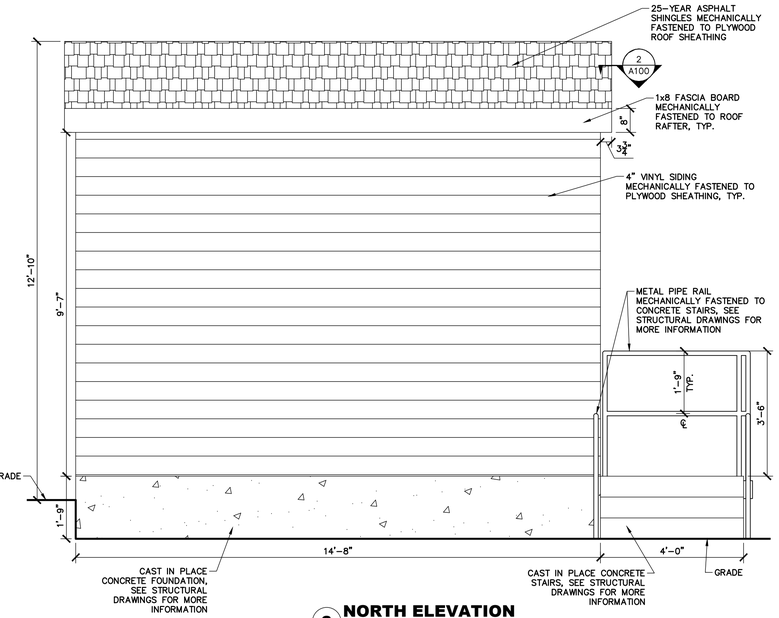
1. ALL DIMENSIONS SHALL BE FIELD VERIFIED. DO NOT SCALE DRAWINGS. INDICATED DIMENSION ARE TO FACE OF EXTERIOR MATERIAL. WOOD FRAMING AND EDGE OF ITEMS UNLESS NOTED OTHERWISE.
2. MINOR ITEMS OF WORK SUCH AS CUTTING, BLOCKING, TRIMMING ETC. SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE WHETHER SHOWN OR NOTED ON THE CONTRACT DOCUMENTS OR NOT.
3. ALL WOOD COLUMNS TO BE PRESSURE TREATED.
4. FOR ALL STRUCTURAL COMPONENTS, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
5. ALL EXPOSED WOOD SHALL NOT HAVE EXPOSED MARKINGS, STAMPS, OR LETTERING.
6. ALL ROOF NAILING SHALL BE SUCH THAT NAILS WILL NOT PENETRATE ROOF SHEATHING.



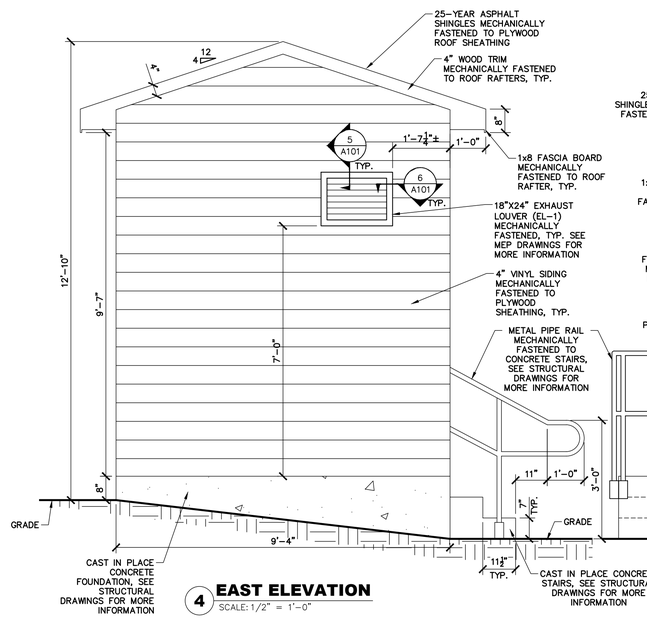
1 FLOOR PLAN
SCALE: 1/2" = 1'-0"



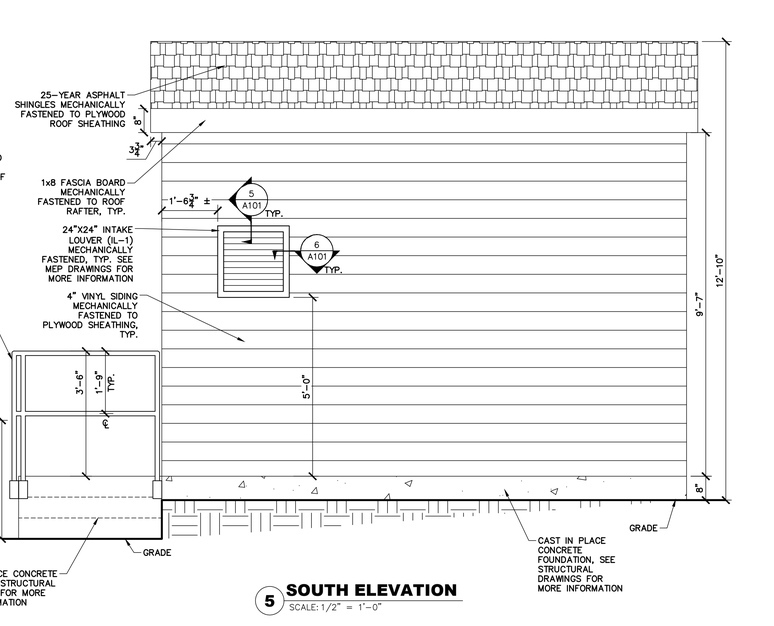
2 WEST ELEVATION
SCALE: 1/2" = 1'-0"



3 NORTH ELEVATION
SCALE: 1/2" = 1'-0"



4 EAST ELEVATION
SCALE: 1/2" = 1'-0"



5 SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

12" 6" 0 1' 2' 3' 4' 5'
SCALE: 1/2"=1'-0"

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	MJM	CMD	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	MM
DESIGNED BY:	MM
DRAWN BY:	SB
CHECKED BY:	NC

STATE OF NEW YORK — MICHAEL D. PANEBIANCO — 107451 — LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

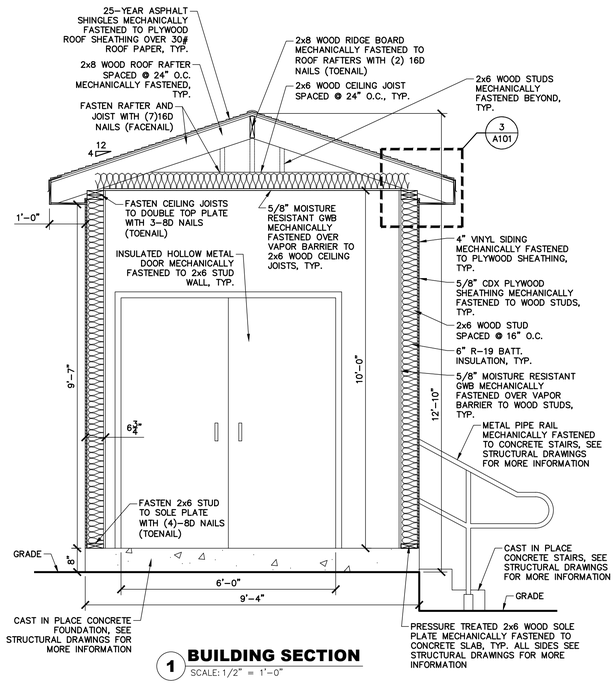
UV DISINFECTION BLDG
FLOOR PLAN AND ELEVATIONS

ESSEX COUNTY NEW YORK

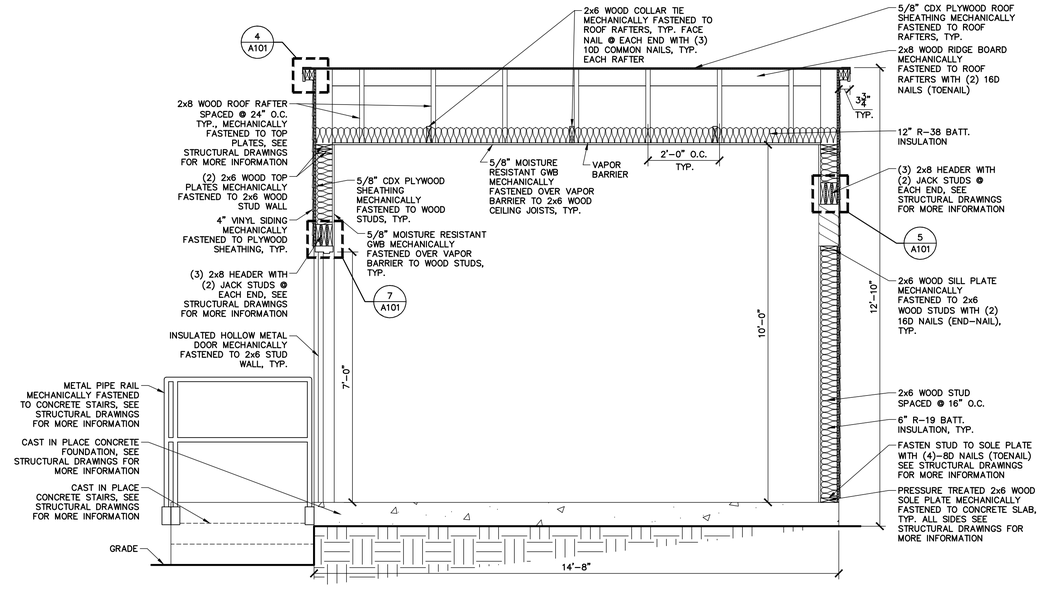
SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

A-100

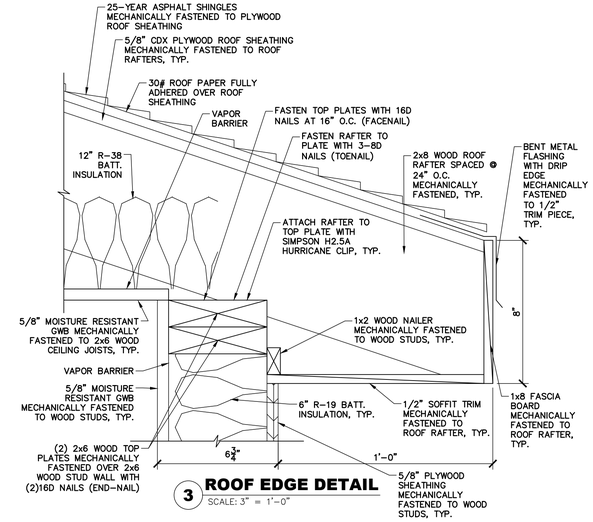
File Name: F:\MJ\1075\1075.02 Wadhams WWTP\A-100 - FLOOR PLAN, ELEVATIONS.dwg (Layout: A-100)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)



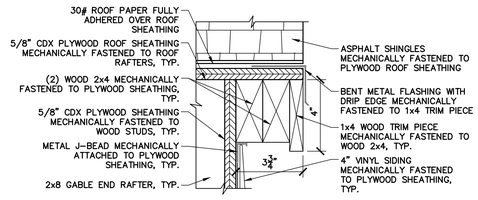
1 BUILDING SECTION
SCALE: 1/2" = 1'-0"



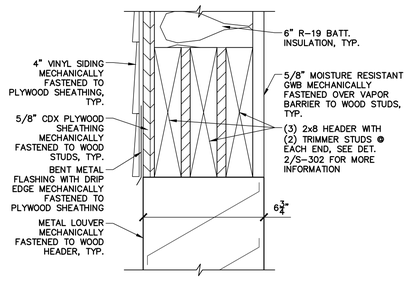
2 BUILDING SECTION
SCALE: 1/2" = 1'-0"



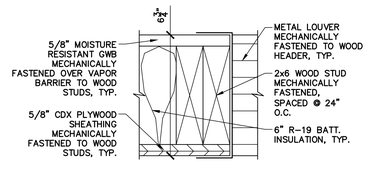
3 ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



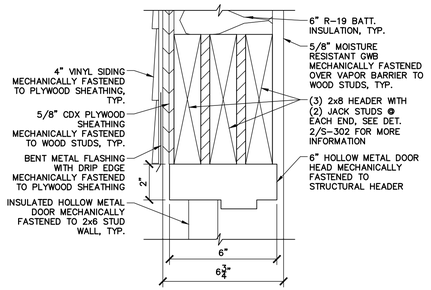
4 ROOF RAKE DETAIL
SCALE: 3" = 1'-0"



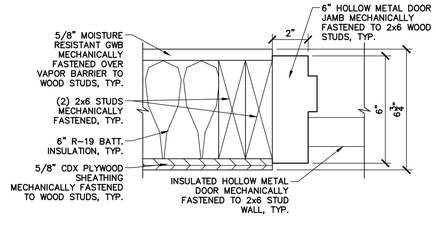
5 LOUVER HEADER DETAIL
SCALE: 3" = 1'-0"



6 LOUVER JAMB DETAIL
SCALE: 3" = 1'-0"



7 DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



8 DOOR JAMB DETAIL
SCALE: 3" = 1'-0"

STRUCTURAL NOTES:

1. CUTTING AND NOTCHING OF WALL STUDS TO BE WITHIN LIMITATIONS OF IBC SECTION 2308.9.10
2. BORED HOLES IN WALL STUDS TO BE WITHIN LIMITATIONS OF IBC SECTION 2308.9.11
3. NOTCHES AND HOLES IN RAFTERS TO BE WITHIN LIMITATIONS OF IBC SECTION 2308.10.4.2
4. ROOF AND WALL SHEATHING TO BE FASTENED WITH 8D NAILS SPACED AT 6" O.C. AT EDGES, AND 12" AT INTERMEDIATE SUPPORTS

DOOR SCHEDULE

NUMBER	TYPE	MTRL	SIZE	THICK	FINISH	RATING	HDWR.	GLASS	FRAME MAT.	FRAME FIN.	REMARKS
100	A	INSUL. HOLLOW METAL	(2) 3'-0" x 7'-0"	1 3/4"	PAINTED	–	1	–	HOLLOW METAL	PAINTED	U-VALUE = .45, COLOR – MANUFACTURER'S STANDARD GRAY

12" 6" 0 1' 2' 3' 4' 5'
SCALE: 1/2"=1'-0"

0 3" 6" 9" 1'
SCALE: 3"=1'-0"

SUBMITTAL / REVISIONS

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CHIEF DESIGNER:	MM
DESIGNED BY:	MM
DRAWN BY:	SB
CHECKED BY:	NC

LICENSED PROFESSIONAL ENGINEER MICHAEL D. PATTERSON 074153 STATE OF NEW YORK

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS
UV DISINFECTION BLDG SECTIONS DETAIL AND DOOR SCHEDULE
ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G_E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

A-101

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\A-101 - SECTION, DETAIL & DOOR SCHEDULE.dwg (Layout: A-101)
Date: Tue, Dec 15, 2020 - 11:12 AM (Name: mdrislane)

GENERAL NOTES:

1. REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWNG NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
2. ALL DIMENSIONS TO, OF, AND IN EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
3. DO NOT CHANGE THE SIZE NOR SPACING OF STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE ENGINEER.
4. DETAILS SHOWN ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
6. CONTRACTOR SHALL BRACE BUILDING AS REQUIRED FOR CONSTRUCTION AND WIND LOADS UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: ROOF DECK, BRACING MEMBERS, SHEAR WALLS, ETC.
7. THE DESIGN IS BASED ON THE 2020 BUILDING CODE OF NEW YORK STATE.
8. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
9. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CORRECTIVE DESIGN BY CONTRACTOR'S ENGINEER AND ENGINEER'S APPROVAL.
10. CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE WORK WITH THE WORK OF OTHERS.
11. VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN, SEE ELECTRICAL AND CIVIL DRAWINGS.
12. VERIFY SIZE AND LOCATION OF EQUIPMENT PADS WITH EQUIPMENT MANUFACTURER PRIOR TO SUBMITTAL.

DESIGN DATA:

1. RISK CATEGORY: III
2. ROOF DEAD LOADS:
   - A. ASPHALT SHINGLES: 3.0 PSF
   - B. 5/8" CDX PLYWOOD ROOF SHEATHING: 2.5 PSF
   - C. 2X8 WOOD ROOF JOISTS @ 2'-0" O.C WITH 2X6 WOOD COLLAR TIE @ 2'-0" O.C.: 2.5 PSF
   - D. 5/8" GYPSUM BOARD: 2.5 PSF
3. LIVE LOADS
   - A. ROOF LIVE: 20 PSF
   - B. WALKWAYS/ELEVATED PLATFORMS: 60 PSF
4. ROOF SNOW LOAD
   - A. GROUND SNOW LOAD: 60 PSF
   - B. FLAT-ROOF SNOW LOAD: 46.20 PSF
   - C. SNOW EXPOSURE FACTOR: 1.0
   - D. SNOW LOAD IMPORTANCE FACTOR: 1.10
   - E. THERMAL FACTOR: 1.0
5. WIND DESIGN DATA
   - A. BASIC WIND SPEED (3-SECOND GUST): 115 MPH (V_{ULT}) 90 MPH (V_{ASD})
   - B. WIND EXPOSURE CATEGORY: B
   - C. INTERNAL PRESSURE COEFFICIENTS: +0.18/-0.18
6. EARTHQUAKE DESIGN DATA
   - A. SEISMIC IMPORTANCE FACTOR: 1.25
   - B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
     - S_S: 0.368
     - S_1: 0.087
     - S_{DS}: 0.369
     - S_{D1}: 0.140
   - C. SITE CLASS: D
   - D. SEISMIC DESIGN CATEGORY: C
   - E. DESIGN BASE SHEAR: 0.071xW (KIPS)
   - F. BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   - G. RESPONSE MODIFICATION FACTOR: R=6.50
   - H. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
7. SOIL BEARING
   - A. PRESUMPTIVE ALLOWABLE BEARING PRESSURE: 2,000 PSF
8. RAIN INTENSITY: 5.24 IN/HR

EARTHWORK:

1. SUBBASE MATERIAL BELOW FLOOR SLAB:
   SUBBASE COURSE TYPE 2
2. BACKFILL AND FILL MATERIALS:
   SELECT FILL CONSISTING OF SOUND, DURABLE, SAND, GRAVEL, STONE, OR BLENDS OF THESE MATERIALS, FREE FROM ORGANIC AND OTHER DELETERIOUS MATERIALS, COMPLYING WITH THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	SIZE OPENING (mm)	PERCENT PASSING
4-INCH	101.6	100
NO. 40	0.425	0-70
NO. 200	0.075	0-15

3. COMPACTION
   - A. COMPACT EACH LAYER OF FILL AND BACKFILL FOR THE FOLLOWING AREA CLASSIFICATIONS TO THE PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW AND AT A MOISTURE CONTENT SUITABLE TO OBTAIN THE REQUIRED DENSITIES, BUT AT NOT LESS THAN THREE PERCENT DRIER OR MORE THAN TWO PERCENT WETTER THAN THE OPTIMUM CONTENT AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR) OR 1557 (MODIFIED PROCTOR):
     1. STRUCTURES (ENTIRE AREA WITHIN TEN FEET OUTSIDE PERIMETER): 95 PERCENT
     2. CONCRETE SLABS AND STEPS: 95 PERCENT
4. WHEN THE EXISTING GROUND SURFACE TO BE COMPACTED HAS A DENSITY LESS THAN THAT SPECIFIED FOR THE PARTICULAR AREA CLASSIFICATION, BREAK UP AND PULVERIZE, AND MOISTURE CONDITION TO FACILITATE COMPACTION TO THE REQUIRED PERCENTAGE OF MAXIMUM DENSITY
5. MOISTURE CONTROL
   - A. WHERE FILL OR BACKFILL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO THE SURFACE AND TO EACH LAYER OF FILL OR BACKFILL. PREVENT PONDING OR OTHER FREE WATER ON SURFACE SUBSEQUENT TO, AND DURING COMPACTING OPERATIONS.
   - B. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISCING, HARROWING, OR PULVERIZING, UNTIL MOISTURE CONTENT IS REDUCED TO A VALUE WHICH WILL PERMIT COMPACTION TO THE PERCENTAGE OF MAXIMUM DENSITY ALLOWED.
6. IF A COMPACTED LAYER FAILS TO MEET THE SPECIFIED PERCENTAGE OF MAXIMUM DENSITY, THE LAYER WILL BE RECOMPACTED AND RETESTED. IF COMPACTION CANNOT BE ACHIEVED THE MATERIAL/LAYER WILL BE REMOVED AND REPLACED. NO ADDITIONAL MATERIAL MAY BE PLACED OVER A COMPACTED LAYER UNTIL THE SPECIFIED DENSITY IS ACHIEVED.
7. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN EIGHT INCHES THICK IN LOOSE DEPTH UNLESS OTHERWISE SPECIFIED. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO FACILITATE COMPACTION TO THE REQUIRED DENSITY. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR COVERED WITH ICE.
8. PLACE FILL AND BACKFILL AGAINST FOUNDATION WALLS, AND IN CONFINED AREAS SUCH AS TRENCHES NOT EASILY ACCESSIBLE BY LARGER COMPACTION EQUIPMENT, IN MAXIMUM SIX INCH THICK LOOSE DEPTH LAYERS.
9. FOR LARGE FILL AREAS, THE LAYER THICKNESS MAY BE MODIFIED BY THE ENGINEER, AT THE CONTRACTOR'S WRITTEN REQUEST, IF IN THE ENGINEER'S JUDGEMENT, THE EQUIPMENT USED IS CAPABLE OF COMPACTING THE FILL MATERIAL IN A GREATER LAYER THICKNESS. THIS REQUEST WILL INCLUDE THE TYPE AND SPECIFICATIONS OF COMPACTION EQUIPMENT INTENDED FOR USE.
10. COMPACT THE TOP 12 INCHES BELOW SUBGRADE TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY ACCORDING TO ASTM D1557.
11. NO BACKFILLING OR COMPACTION SHALL TAKE PLACE AGAINST ANY CAST-IN-PLACE CONCRETE FOOTINGS OR SLABS PRIOR TO 7 DAYS INITIAL CONCRETE SET, OR AGAINST ANY CAST-IN-PLACE CONCRETE WALLS PRIOR TO ACHIEVING 75% COMPRESSIVE STRENGTH, F'C.
12. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN 4 FEET OF ANY STRUCTURE. HEAVY VIBRATORY COMPACTORS SHALL NOT BE OPERATED WITHIN 4 FEET OF ANY STRUCTURE.
13. TESTING:
   - A. NOTIFY THE OWNER AT LEAST THREE WORKING DAYS IN ADVANCE OF ALL PHASES OF FILLING AND BACKFILLING OPERATIONS.
   - B. COMPACTION TESTING WILL BE PERFORMED BY THE OWNER TO ASCERTAIN THE COMPACTED DENSITY OF THE FILL AND BACKFILL MATERIALS. COMPACTION TESTING WILL BE PERFORMED ON CERTAIN LAYERS OF THE FILL AND BACKFILL AS DETERMINED BY THE ENGINEER.
   - C. THE CONTRACTOR SHALL DIG TEST HOLES AND PROVIDE ACCESS TO ALL BACKFILL AREAS AT NO ADDITIONAL COST TO THE OWNER WHEN REQUESTED BY THE ENGINEER.
   - D. FOR EACH TEST WHICH DOES NOT MEET SPECIFICATIONS, THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR THE COST OF THE TEST AND SHALL REPLACE ALL MATERIAL INCLUDED THAT LIFT OR SECTION WITH ACCEPTABLE MATERIAL, AND COMPACT TO SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.

FOUNDATION NOTES:

1. BEAR ALL FOOTINGS ON SUBBASE TYPE 2.
2. FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE AS INDICATED IN THE DESIGN DATA. BEARING STRATUM FOR THIS CAPACITY SHALL BE VERIFIED IN FIELD BY OWNER'S REPRESENTATIVE BEFORE PLACING CONCRETE FOOTINGS.
3. SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY OWNER'S REPRESENTATIVE, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN, OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF OWNER'S REPRESENTATIVE.
4. STRIP AND PROOFROLL ENTIRE BUILDING AREA. PLACE COMPACT STRUCTURAL FILL PER EARTHWORK NOTES TO REACH REQUIRED SUBGRADE LEVELS.
5. DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
6. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
7. CENTER FOOTINGS UNDER WALLS, PIERS, OR COLUMNS UNLESS NOTED OTHERWISE.

CAST-IN-PLACE CONCRETE NOTES:

1. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATER STOPS, AND ALL OTHER EMBEDDED ITEMS, AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. FOR EMBEDDED ITEMS, AND REQUIRED DETAILS, SEE CIVIL AND ARCHITECTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS.
2. CONCRETE FOR INTERIOR SLAB-ON-GRADE SHALL BE NORMAL WEIGHT AND NON AIR-ENTRAINED (3% MAX.) CONCRETE FOR FOOTINGS, FOUNDATION WALLS, CHANNELS, AND EXTERIOR SLAB-ON-GRADE SHALL BE NORMAL WEIGHT AND AIR ENTRAINED (6% MAX.). CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS:
   A. ALL CONCRETE: F'C= 5,000 PSI
3. ALL PIPING PENETRATIONS THROUGH NEW SLABS AND WALLS ARE TO BE SLEEVED OR CHASED. NO CORING OF CONCRETE IS PERMITTED.
4. REINFORCE ALL CONCRETE ELEMENTS (FOOTINGS, WALLS, CHANNELS, AND SLABS).REINFORCEMENT SHOWN PERTAINS TO ALL TYPICAL CONDITIONS.
5. SPLICES IN REINFORCEMENT SHALL MEET CLASS B TENSION LAP REQUIREMENTS UNLESS NOTED OTHERWISE.
6. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
7. PROVIDE CORNER BARS IN FOOTINGS AND WALLS, THE SAME SIZE AND NUMBER AS CONTINUOUS REINFORCEMENT.
8. DOWEL CONCRETE WALLS INTO FOOTINGS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3" OF BOTTOM OF FOOTING, TERMINATED WITH ACI STD. 90 DEGREE HOOK, UNLESS NOTED OTHERWISE.
9. PROVIDE KEYS IN CONCRETE WALLS AND FOOTINGS AT INTERSECTION OF CONCRETE.
10. PROVIDE 3/4" X 3/4" CHAMFER AT ALL EXPOSED CORNERS UNLESS NOTED OTHERWISE.
11. NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS OR WALLS EXCEPT AS FOLLOWS:
   A. WHERE SHOWN AND AS DETAILED ON DRAWINGS.
   B. MISCELLANEOUS HOLES THROUGH SLABS OR WALLS WHICH DO NOT DISPLACE MORE THAN ONE BAR. THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
13. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT. DETAIL JOINT ON SHOP DRAWINGS.
14. CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.
15. ALL CONCRETE SHALL HAVE BOTH CORROSION INHIBITING ADMIXTURE AND CRYSTALLIZING WATERPROOFING ADMIXTURE. FOR BASIS OF DESIGN FOR CORROSION INHIBITING ADMIXTURE REFER TO SPECIFICATION NO. 033000, SECTION 2.05-C. FOR BASIS OF DESIGN FOR CRYSTALLIZING WATERPROOFING ADMIXTURE REFER TO SPECIFICATION NO. 033000, SECTION 2.05-B-7.

SLAB-ON-GRADE NOTES:

1. SUBGRADE BELOW SLAB-ON-GRADE SHALL BE REVIEWED AND ACCEPTED BY OWNER'S REPRESENTATIVE BEFORE CONCRETE SLAB PLACEMENT.
2. CONTROL JOINT AND CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH ENGINEER OF RECORD IN ACCORDANCE WITH SPECIFICATIONS.
3. VERIFY SIZE AND LOCATION OF PLATFORMS, CURBS, AND PADS WITH PROCESS, MECHANICAL, AND ELECTRICAL CONTRACTORS.
4. ALL SLABS-ON-GRADE SHALL BEAR ON A BASE COURSE OF CLEAN, COMPACTED SUBBASE TYPE 2 A MINIMUM OF 12" THICK.

WOOD NOTES:

1. ALL FRAMING LUMBER FOR JOISTS AND RAFTERS SHALL BE SPF (SPRUCE PINE FIR) #2 OR BETTER.
2. ALL STUDS SHALL BE SPF (SPRUCE PINE FIR) #2 OR BETTER. (P.T. SOLE PLATES MAY BE S.P. #2 OR BETTER).
3. PROVIDE SOLID BLOCKING AT MIDSPAN OF RAFTERS AND JOISTS OR AT A MAXIMUM OF 8 FEET ON CENTER.
4. CLIPS, HOLDDOWNS, AND JOIST HANGERS SHALL BE SIMPSON CONNECTORS AND SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF SIMPSON STRONG-TIE COMPANY, INC. (800-999-5099). ALL OPTIONAL HOLES (TRIANGLE, OBROUND, AND DIAMOND) SHALL BE FILLED WITH NAILS.
5. SOLE PLATES SHALL BE BOLTED TO THE FOUNDATION WITH EITHER SIMPSON EPOXY-TIES (5" MIN EMBEDMENT), SIMPSON SSTB16 ANCHOR BOLTS OR 1/2 INCH DIAMETERX10 INCH LONG HEX-BOLTS. ANCHORS SHALL BE SPACED AT 48 INCHES ON CENTER MAX. PLACE A BOLT WITHIN 12 INCHES OF THE END OF EACH BOARD OF THE PLATE INCLUDING CORNERS. SOLE PLATE ANCHORS SHALL BE CARBON-STEEL, ZINC PLATED, COMPLYING WITH ASTM B 633, CLASS Fe/Zn 5.
6. COMPLY WITH "WCD NO.1 – DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION, UNLESS OTHERWISE INDICATED.
7. PROVIDE ANCHOR AND NAILS TO COMPLY WITH THE FOLLOWING:
   - A. NATIONAL EVALUATION REPORT NO. NER-272 FOR PNEUMATIC OR MECHANICAL DRIVEN STAPLES, P-NAILS, AND ALLIED FASTENERS.
   - B. "RECOMMENDED NAILING SCHEDULE" OF REFERENCED FRAMING STANDARD AND WITH "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY AF&PA.
8. ALL WOOD FASTENERS SHALL BE PROVIDED WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.

MISCELLANEOUS:

1. PIPE RAILING ANCHORS: HILTI HIT-Z, ZINC PLATED WITH HIT-HY200 ADHESIVE.
2. PIPE RAIL: ASTM A53 GR.B Fy= 36 KSI
3. ANGLES: ASTM 36 Fy= 36 KSI

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1	12/15/2020	BID DOCUMENTS	TS	NC	12/14/20

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CHECKED BY:	NC

MICHAEL D. PATTERSON LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK 074751

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

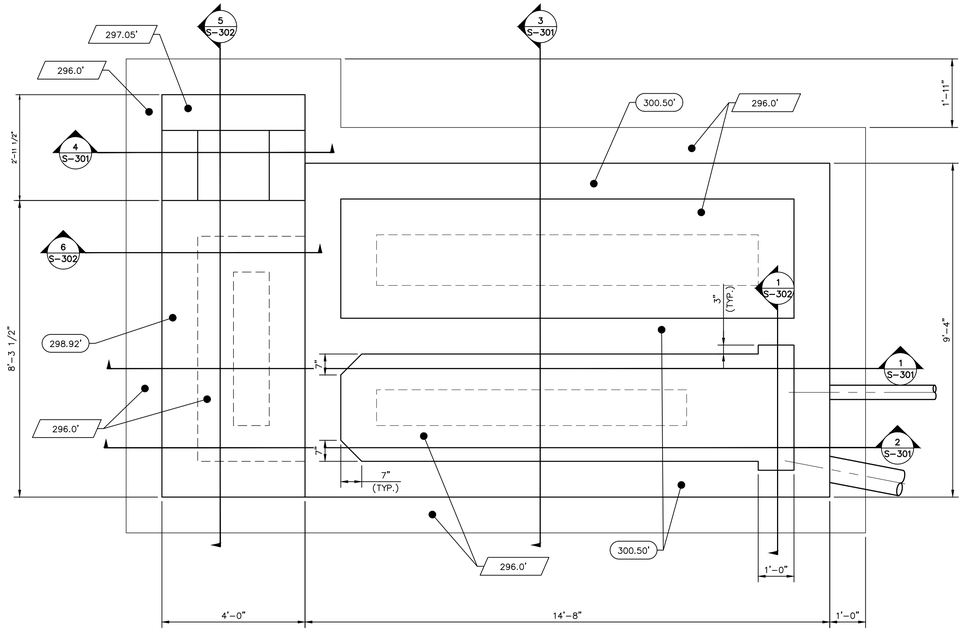
UV DISINFECTION BLDG
GENERAL NOTES

ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

S-001

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\S-001 UV GEN NOTES.dwg (Layout: S-001)
Date: Mon, Dec 14, 2020 - 5:28 PM (Name: kgeorge)



NOTES:

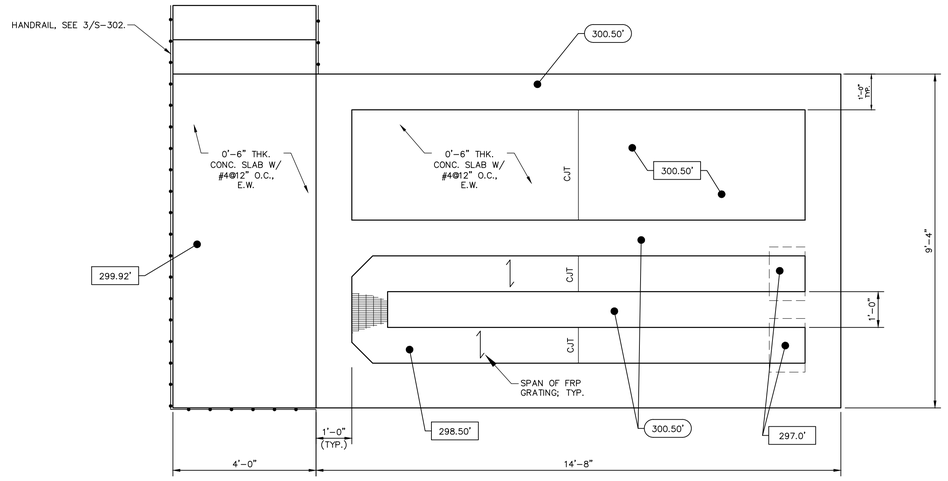
1. BUILDING FINISHED FLOOR ELEVATION = 300.5'.
2. X'-XX" DENOTES TOP OF FOOTING ELEVATION.
3. (X'-XX") DENOTES TOP OF WALL ELEVATION.
4. ALL CONCRETE SHALL HAVE BOTH CORROSION INHIBITING ADMIXTURE AND CRYSTALLIZING WATERPROOFING ADMIXTURE. FOR BASIS OF DESIGN FOR CORROSION INHIBITING ADMIXTURE REFER TO SPECIFICATION NUMBER 033000, SECTION 2.05–C. FOR BASIS OF DESIGN FOR CRYSTALLIZING WATERPROOFING ADMIXTURE, REFER TO SPECIFICATION NUMBER 033000 SECTION 2.05–B–7.
5. REFER TO CIVIL DRAWINGS FOR ITEMS TO BE EMBEDDED INTO CONCRETE.

1 UV DISINFECTION FOUNDATION PLAN

SCALE: 3/4" = 1'-0"

12" 6" 0 1' 2' 3"

SCALE: 3/4"=1'-0"



NOTES:

1. (X'-XX") DENOTES TOP OF WALL ELEVATION.
2. [X'-XX"] DENOTES TOP OF SLAB ELEVATION.
3. CJT DENOTES CONTROL JOINT.
4. GRATING SHALL BE SQUARE MOLDED FIBERGLASS, 1 1/2" HIGH WITH A GRID STYLE OF 1 1/2" x 1 1/2". GRATING SHALL BE FABRICATED IN 4'–0" LONG PANELS MAXIMUM. SECURE WITH MANUFACTURER'S STANDARD S.S. CLIPS.
5. ALL CONCRETE SHALL HAVE BOTH CORROSION INHIBITING ADMIXTURE AND CRYSTALLIZING WATERPROOFING ADMIXTURE. FOR BASIS OF DESIGN FOR CORROSION INHIBITING ADMIXTURE REFER TO SPECIFICATION NUMBER 033000 SECTION 2.05–C. FOR BASIS OF DESIGN FOR CRYSTALLIZING WATERPROOFING ADMIXTURE REFER TO SPECIFICATION NUMBER 033000 SECTION 2.05–B–7.
6. REFER TO CIVIL DWGS FOR ITEMS TO BE EMBEDDED INTO CONCRETE.

2 UV DISINFECTION SLAB PLAN

SCALE: 3/4" = 1'-0"

12" 6" 0 1' 2' 3"

SCALE: 3/4"=1'-0"

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	TS	NC	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	TS
DESIGNED BY:	TS
DRAWN BY:	KG
CHECKED BY:	NC

MICHAEL D. PAUQUETTE — 074754 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

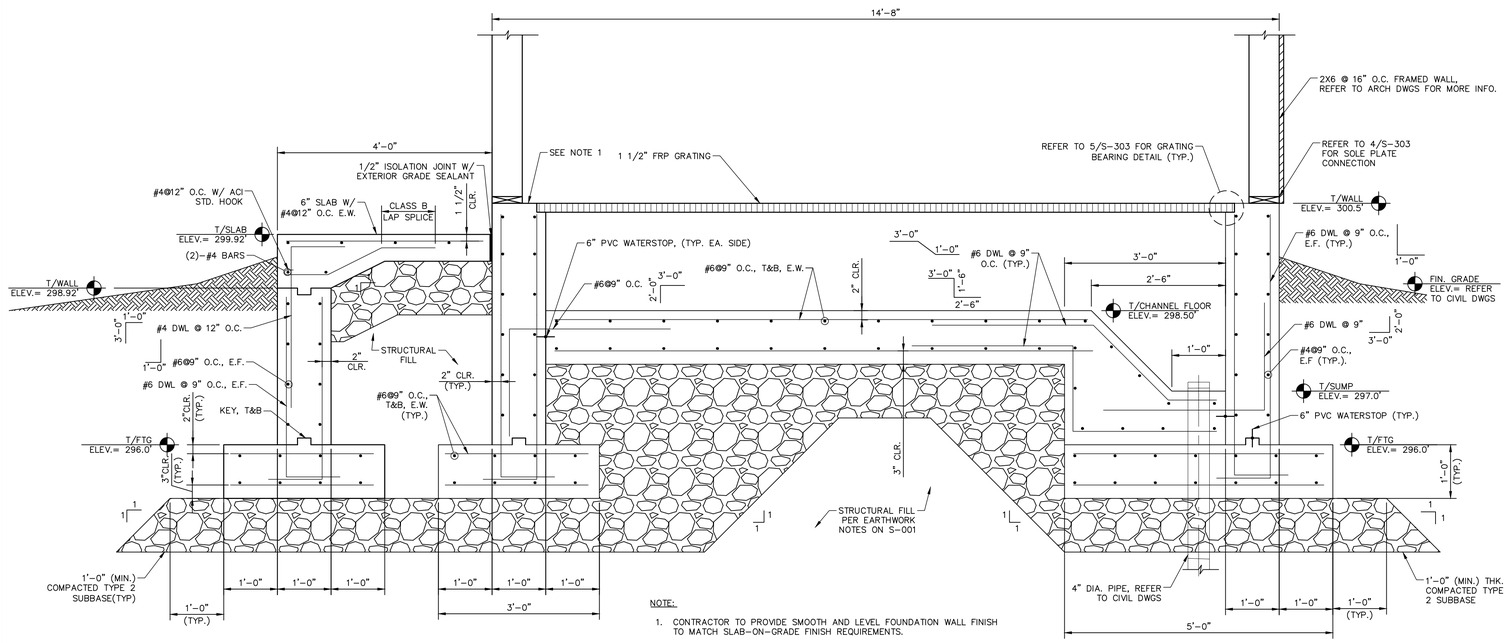
UV DISINFECTION BLDG FOUNDATION PLAN

ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

S-101

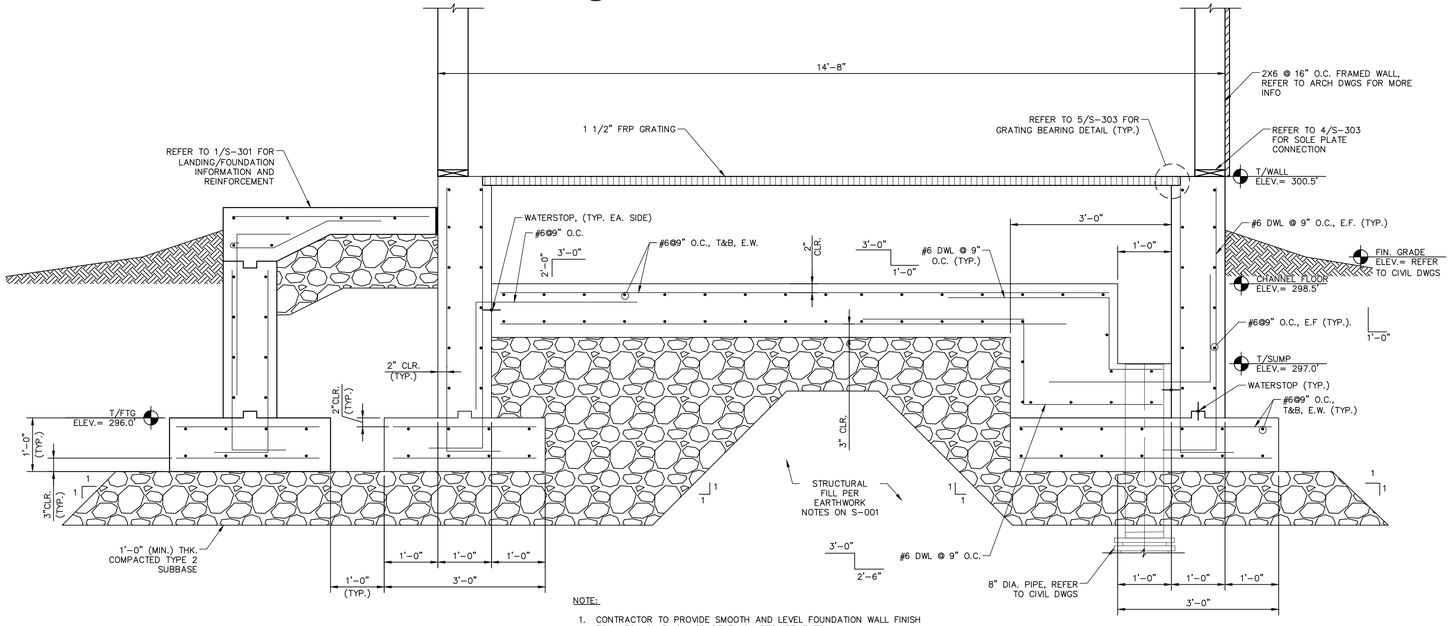
File Name: F:\MJ\1075\1075.02 Wadhams WWTP\S-101 UV PLAN.dwg (Layout: S-101)
Date: Mon, Dec 14, 2020 - 5:28 PM (Name: kgeorge)



NOTE:

1. CONTRACTOR TO PROVIDE SMOOTH AND LEVEL FOUNDATION WALL FINISH TO MATCH SLAB-ON-GRADE FINISH REQUIREMENTS.

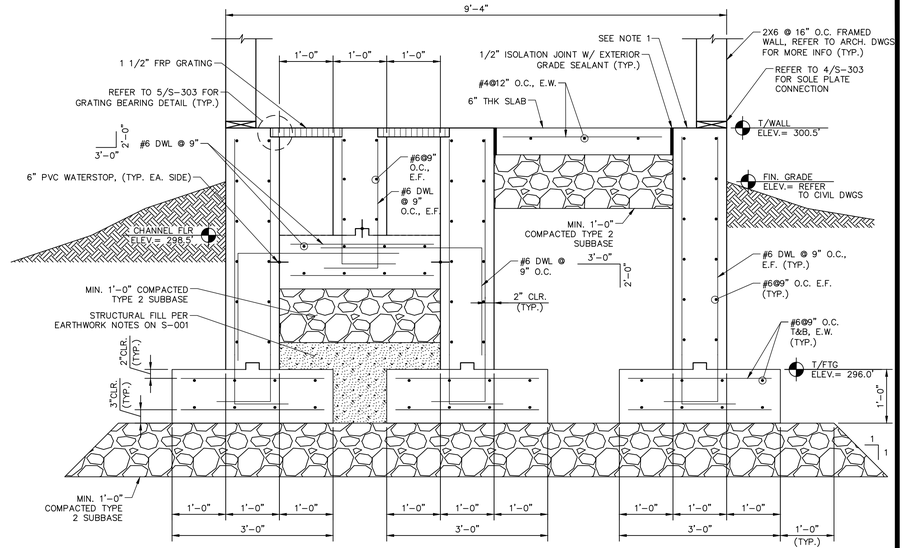
1 SECTION @ U.V. DISINFECTION TANK
SCALE: 3/4" = 1'-0"



NOTE:

1. CONTRACTOR TO PROVIDE SMOOTH AND LEVEL FOUNDATION WALL FINISH TO MATCH SLAB-ON-GRADE FINISH REQUIREMENTS.

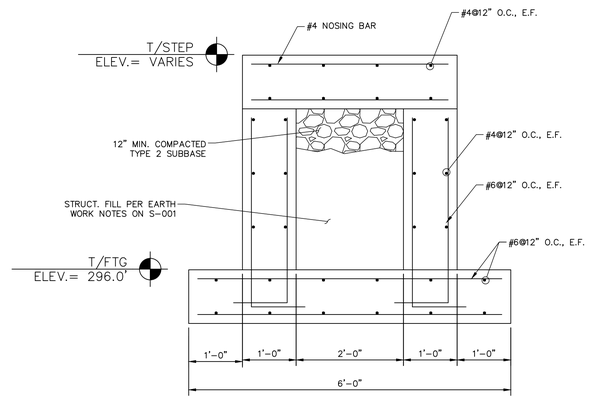
2 SECTION @ U.V. DISINFECTION TANK
SCALE: 3/4" = 1'-0"



NOTE:

1. CONTRACTOR TO PROVIDE SMOOTH AND LEVEL FOUNDATION WALL FINISH TO MATCH SLAB-ON-GRADE FINISH REQUIREMENTS.

3 SECTION @ DISINFECTION TANK
SCALE: 3/4" = 1'-0"



4 SECTION @ CHEEK WALL
SCALE: 3/4" = 1'-0"

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	TS	NC	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	TS
DESIGNED BY:	TS
DRAWN BY:	KG
CHECKED BY:	NC

MICHAEL D. PATCHETT — 074751 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

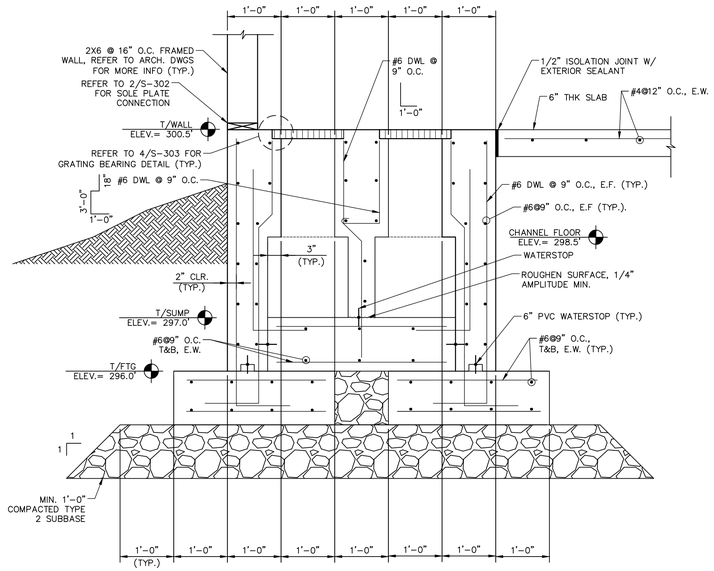
UV DISINFECTION BLDG FOUNDATION SECTIONS AND DETAILS

ESSEX COUNTY NEW YORK

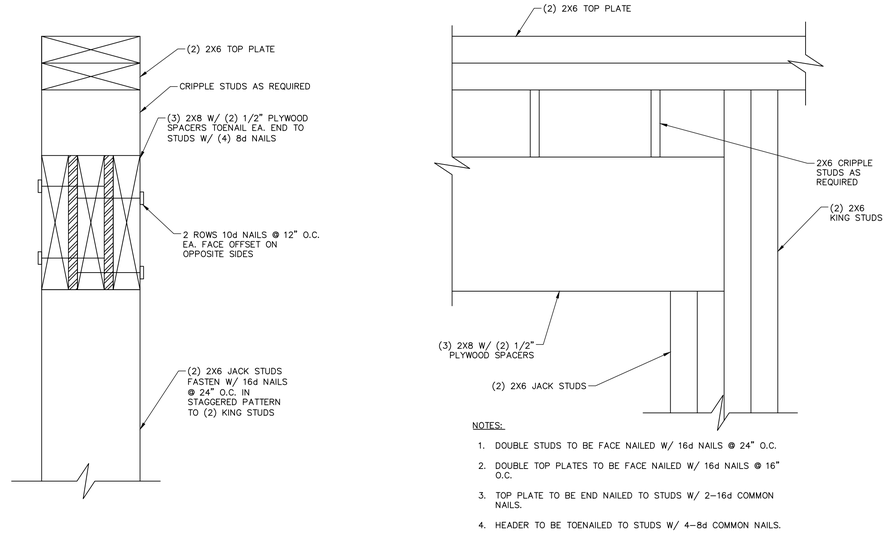
SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

S-301

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\S-301 UV BLDG.dwg (Layout: S-301)
Date: Mon, Dec 14, 2020 - 5:29 PM (Name: kgeorge)



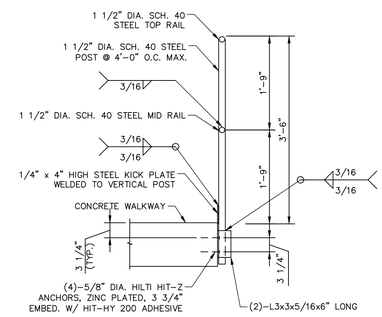
1 SECTION @ DISINFECTION TANK
SCALE: 1" = 1'-0"



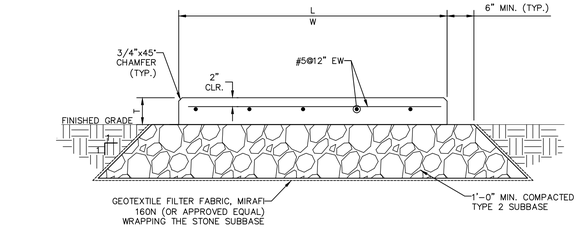
NOTES:

1. DOUBLE STUDS TO BE FACE NAILED W/ 16d NAILS @ 24" O.C.
2. DOUBLE TOP PLATES TO BE FACE NAILED W/ 16d NAILS @ 16" O.C.
3. TOP PLATE TO BE END NAILED TO STUDS W/ 2-16d COMMON NAILS.
4. HEADER TO BE TOENAILED TO STUDS W/ 4-8d COMMON NAILS.

2 LOUVER AND DOOR HEADER DETAIL
SCALE: 3" = 1'-0"



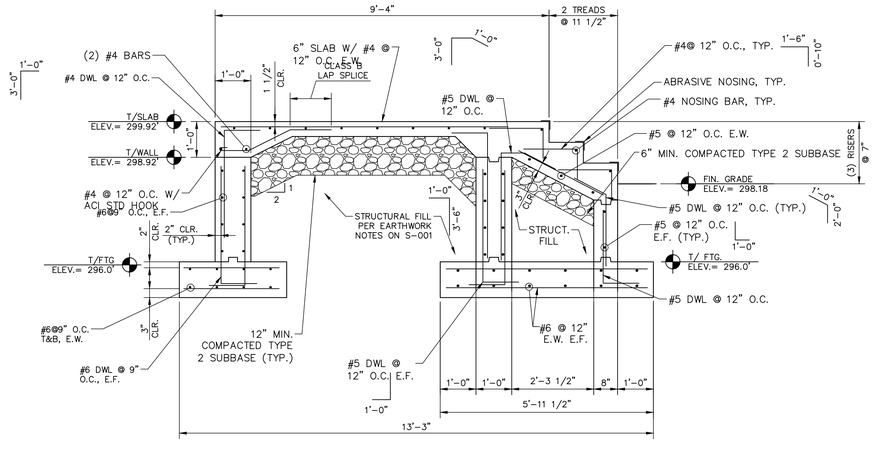
3 HANDRAIL DETAIL
SCALE: 3/4" = 1'-0"



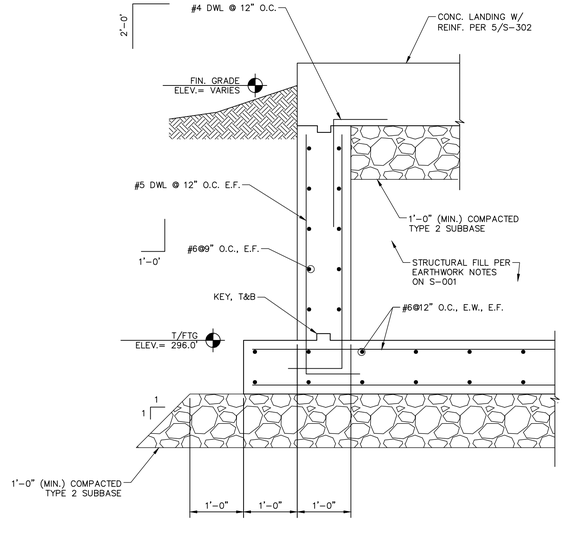
NOTES:

1. L= LENGTH OF EQUIPMENT BASE, PLUS 6"± EACH SIDE.
   W= WIDTH OF EQUIPMENT BASE, PLUS 6"± EACH SIDE.
   T= 8" (UNLESS OTHERWISE SHOWN OR REQUIRED TO CONNECT TO EXISTING AND/OR PROPOSED MECHANICAL SYSTEMS)
2. ANCHOR EQUIPMENT TO PAD AS DIRECTED BY EQUIPMENT MANUFACTURER. CONNECTION TO PROVIDE FLEXIBILITY TO ACCOMMODATE FROST MOVEMENT.
3. CONFIRM FINAL EQUIPMENT PAD DIMENSIONS WITH EQUIPMENT MANUFACTURER.

4 CONCRETE GENERATOR AND PROPANE TANK PAD DETAIL
SCALE: 3" = 1'-0"



5 CONCRETE STAIR SECTION
SCALE: 1/2" = 1'-0"



6 SECTION @ STAIRS
SCALE: 3/4" = 1'-0"

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	TS	NC	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	TS
DESIGNED BY:	TS
DRAWN BY:	KG
CHECKED BY:	NC

STATE OF NEW YORK — DAVID D. PATTERSON — LICENSED PROFESSIONAL ENGINEER — 074751

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

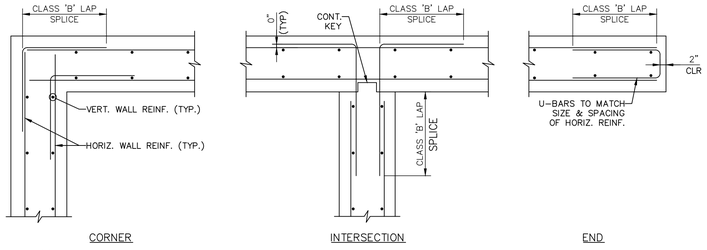
UV DISINFECTION BLDG
FOUNDATION SECTIONS AND DETAILS

ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	12/15/2020

S-302

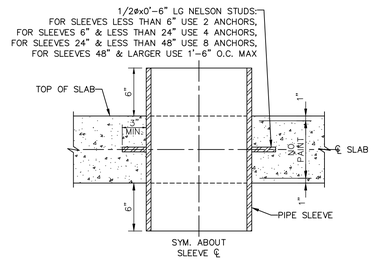
File Name: F:\MJ\1075\1075.02 Wadhams WWTP\S-301 UV BLDG.dwg (Layout: S-302)
Date: Mon, Dec 14, 2020 - 5:29 PM (Name: kgeorge)



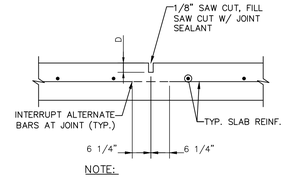
NOTE:

1. FOR WALLS WITH SINGLE REINFORCEMENT (I.E. REINF. BARS AT CENTER OF WALL, ETC.), USE REINF DETAILS SIMILAR TO ABOVE DETAILS.

1 TYPICAL HORIZONTAL WALL REINF.
SCALE: N.T.S.



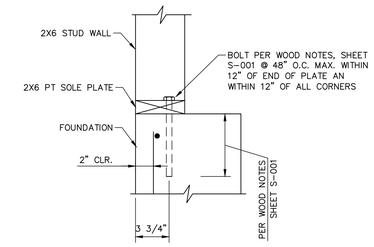
2 PIPE SLEEVE THRU SLAB
SCALE: N.T.S.



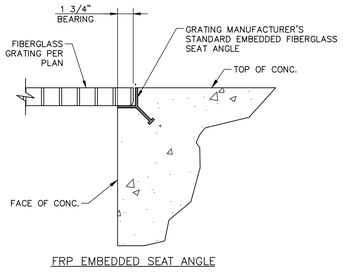
NOTE:

1. D = SLAB DEPTH x .25

3 SLAB-ON-GRADE CONTROL JOINT
SCALE: N.T.S.

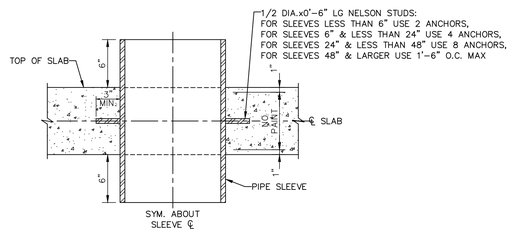


4 TYPICAL SOLE PLATE ANCHORAGE DETAIL
SCALE: 1 1/2" = 1'-0"



FRP EMBEDDED SEAT ANGLE

5 TYPICAL GRATING BEARING DETAIL
SCALE: 3/4"=1'-0"



6 PIPE SLEEVE THRU SLAB
SCALE: 1/2"=1'-0"

REINFORCING LAP LENGTHS		
BAR SIZE	MIN. LAP LENGTH (IN.)	MIN. EMBED LENGTH
4	25"	19"
5	32"	24"
6	38"	29"
7	55"	41"
8	63"	47"
9	71"	53"

NOTES:

1. TABLE TO BE INCLUDED ON ALL REINFORCED CONCRETE SHOP DRAWINGS.
2. LENGTHS TABULATED HERE APPLY TO TENSION DEVELOPMENT LENGTHS OF UNCOATED DEFORMED BARS IN NORMAL WEIGHT 4000 PSI CONCRETE WITHOUT 12" OF COVER BELOW HORIZONTAL REINFORCEMENT AND WITHOUT REGARD TO EXCESS REINFORCEMENT.

6 TYP. REINFORCING LAP LENGTH SCHEDULE
SCALE: N.T.S.

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
1	12/15/2020	BID DOCUMENTS	TS	NC	12/11/20

PROJ. MANAGER:	CLD
CHIEF DESIGNER:	TS
DESIGNED BY:	TS
DRAWN BY:	KG
CHECKED BY:	NC

STATE OF NEW YORK · MICHAEL D. PATELLI · 071151 · LICENSED PROFESSIONAL ENGINEER

DATE

DATE

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

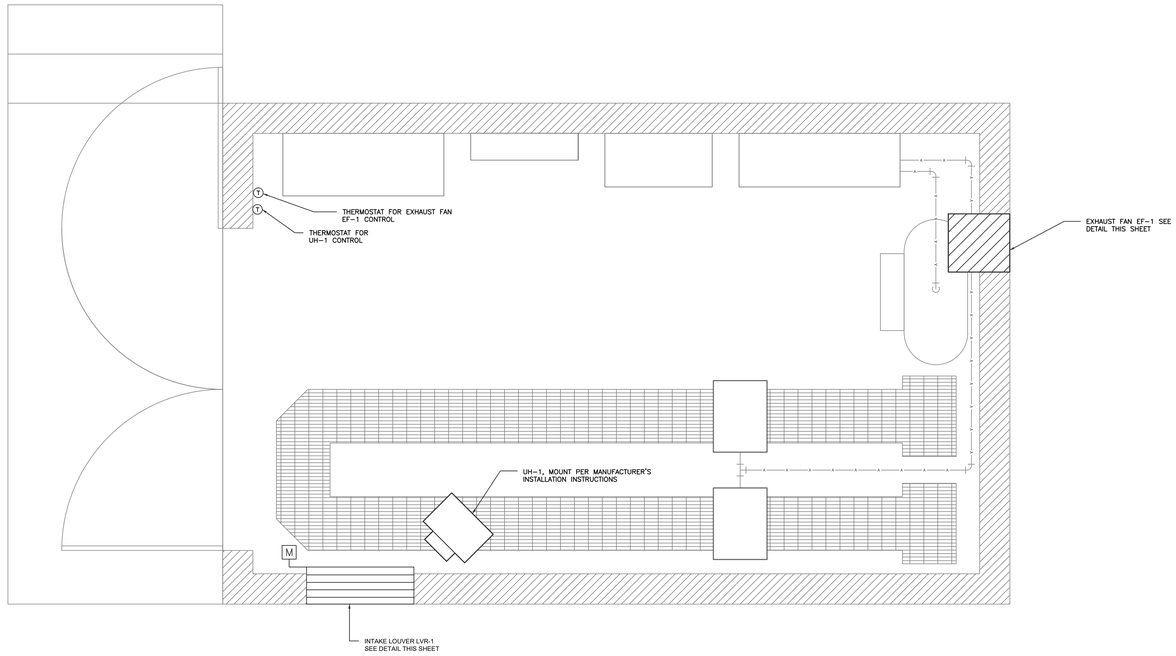
UV DISINFECTION BLDG
TYPICAL DETAILS

ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 12/15/2020

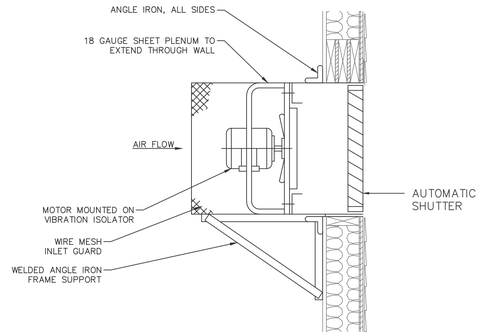
S-303

File Name: F:\MJ\1075\1075.02 Wadhams WWTP\S-301 UV BLDG.dwg (Layout: S-303)
Date: Mon, Dec 14, 2020 - 5:29 PM (Name: kgeorge)



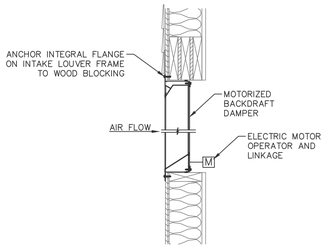
1 M-100 HVAC PLAN

SCALE: 3/4"=1'-0"



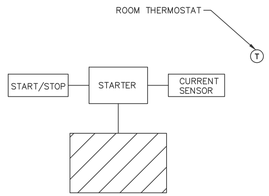
2 M-100 EXHAUST FAN (EF-1)

SCALE: NTS



3 M-100 INTAKE LOUVER (LVR-1) DETAIL

SCALE: NTS

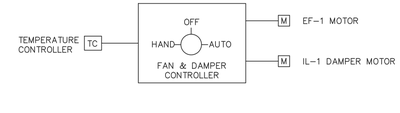


NOTES:

1. ALL TEMPERATURE SETPOINTS SHALL BE FIELD ADJUSTABLE.
2. MOTOR RATED RELAYS SHALL BE PROVIDED TO INTERFACE MANUAL MOTOR STARTER WITH CONTROL WIRING TO SATISFY CONTROL SEQUENCE.
3. TEMPERATURE SETPOINT SHALL BE INITIALLY SET AT 45 DEG FAHRENHEIT.
4. WHEN THE TEMPERATURE DROPS TO 45 DEG F, THE UNIT HEATER'S FAN AND HEATING ELEMENT SHALL BE ENERGIZED. WHEN THE TEMPERATURE RISES TO 50 DEG F, THE UNIT HEATER'S FAN AND HEATING ELEMENT SHALL BE DE-ENERGIZED.

4 M-100 UNIT HEATER (UH-1) SEQUENCE OF OPERATION

SCALE: NTS

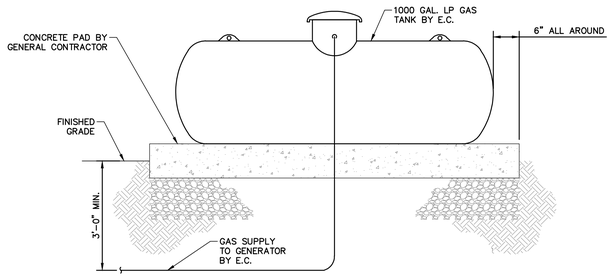


NOTES:

1. PROVIDE A COMPLETE CONTROL SYSTEM WHICH OPERATES THE EXHAUST FAN AND INTAKE LOUVER DAMPER BASED ON INDOOR AIR TEMPERATURE.
2. WITH THE HAND-OFF-AUTO (HOA) SWITCH IN THE HAND POSITION, EF-1 SHALL RUN AND THE INTAKE LOUVER DAMPER SHALL BE OPEN.
3. WITH THE HOA SWITCH IN THE AUTO POSITION, EF-1 SHALL RUN AND THE INTAKE LOUVER DAMPER SHALL BE OPEN WHEN THE TEMPERATURE, AS SENSED BY THE TEMPERATURE CONTROLLER, RISES ABOVE THE FIELD ADJUSTABLE TEMPERATURE SETPOINT. EF-1 SHALL STOP AND THE INTAKE LOUVER DAMPER SHALL CLOSE WHEN THE TEMPERATURE DROPS BELOW THE TEMPERATURE SETPOINT.
4. WITH THE HOA SWITCH IN THE OFF POSITION, EF-1 SHALL BE OFF AND THE INTAKE LOUVER DAMPER SHALL BE CLOSED.

5 M-100 FAN + DAMPER SCHEMATIC AND SEQUENCE OF OPERATION

SCALE: 3/4"=1'-0"



6 M-100 DETAIL-LP TANK INSTALLATION

SCALE: NTS

ELECTRIC WALL HEATER SCHEDULE

MARK	MAKE	MODEL	VOLTS	PHASE	AMPS	MBH	MOUNTING	REMARKS
UH-1	CHROMALOX	LUH-04	240	1	17.2	13.7	CEILING MOUNTED	REMOTE MOUNTED THERMOSTAT.

FAN SCHEDULE

MARK	MAKE	MODEL	CFM	EXT. SP	RPM	HP	ELECTRIC			REMARKS
							VOLTS	PHASE	HZ	
EF-1	LOREN COOK	8XP24D15	200	0.05	1550	0.04	120	1	60	PROVIDE WITH DISCONNECT, FAN AND DAMPER CONTROLLER AND TEMPERATURE CONTROLLER.

LOUVER SCHEDULE

MARK	MAKE	MODEL	SIZE (WXH)	CFM	TYPE	MATERIAL	FINISH	DEPTH	FREE AREA	REMARKS
LVR-1	RUSKIN	ELF375DX	12X12	200	DRAINBLADE	ALUMINUM	WE	4"	0.34	PROVIDE 1/2" BIRDSCREEN, LOREN COOK SIZE 8 MOTORIZED BACKDRAFT DAMPER, 24V ELECTRIC OPERATOR. DAMPER SHALL BE POWERED TO OPEN, SPRING CLOSED AND TIED TO OPERATE WITH EF-1.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
	12/15/20	BID DOCUMENTS	SMP	SMP	12/15/20

PROJ. MANAGER:	SMP
CHIEF DESIGNER:	-
DESIGNED BY:	SMP
DRAWN BY:	SMP
CHECKED BY:	-

STATE OF NEW YORK SUSAN M. PALMA LICENSED PROFESSIONAL ENGINEER 083015

DATE

CONSULTANTS IN ENGINEERING
1 Van Patten Drive,
Clifton Park, NY 12065
518-877-8566

HA2F PROJ. NO. 2019008.00

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

UV DISINFECTION BLDG
HVAC PLAN, DETAILS AND SCHEDULES

ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	08/11/2020

M-100

AUTOMATIC TRANSFER SWITCH SCHEDULE

MARK	MAKE	MODEL	LOAD	TYPE	AMPS	VOLTS/PH/HZ/POLES	REMARKS
ATS-1	ASCO	D03ATSB30200F	UV BUILDING	ATW W	200	240/1/60/3	

SCHEDULE OF STANDBY GENERATORS

MARK	MAKE	MODEL	FUEL	KW/KVA	DUTY	VOLTAGE	PHASES	WIRE	OVERCURRENT PROTECTION	REMARKS
GEN-1	GENERAC	RG048	LP	48	STANDBY	120/240	1	4		

LIGHTING FIXTURE SCHEDULE

MARK	MAKE	MODEL	VOLTS	WATTS	LAMP		REMARKS
					TYPE	NO/FIXT	
LA	LITHONIA	SBL2LP835	120	32W	LED	PER. MANF.	LED SURFACE MOUNT 1'X4'
LB	STONCO	PW15WNW-G1-8-BZ	120	15	LED	PER. MANF.	WALL MOUNT LED PROVIDE PHOTOCELL CONTROL

LAB PANEL EXISTING, 120/240V, 200 AMP CUTLER HAMMER

DESCRIPTION OF LOAD	TRIP	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP	DESCRIPTION OF LOAD
FRIDGE	20	1	2	60	PUMP STATION #2
OUTLETS	20	3	4		
LIGHT/EXHAUST FAN	20	5	6	50	WEIR BOX BUILDING (TO BE REMOVED - REMOVE BREAKER)
FILETER BED OUT	20	7	8		
DEDICATED RECEPT	20	9	10	20	HWH
DEDICATED RECEPT	20	11	12		
DESK RECEPT	20	13	14	20	SMALL ROOM HEAT
RECEPT SOUTH COUNTER	20	15	16		
RECEPT AT REFRIGERATED SAMPLER	20	17	18	20	LARGE ROOM HEAT
AC BIG ROOM	20	19	20		
AC SMALL ROOM	20	21	22	20	RECEPT OVER HWH
QUADS BR	20	23	24		
		25	26		
		27	28		
		29	30		

PANEL DP-1

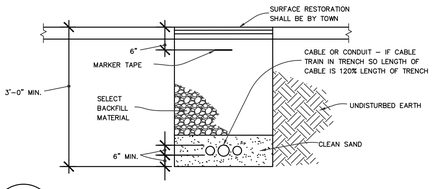
DESCRIPTION OF LOAD	TRIP	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP	DESCRIPTION OF LOAD
LIGHTING	20	1	2	20	AIR COMPRESSOR RECEPTACLE
RECEPTACLES	20	3	4	20	SPARE
EFFLUENT PUMP CONTROL PANEL	50	5	6	30	UV CONTROL PANEL
		7	8	30	UV CONTROL PANEL
EXISTING LAB PANEL	100	9	10	20	UH-1
		11	12		
EF-1	20	13	14		
		15	16		
		17	18		
		19	20		
		21	22		
		23	24		

GENERAL NOTES

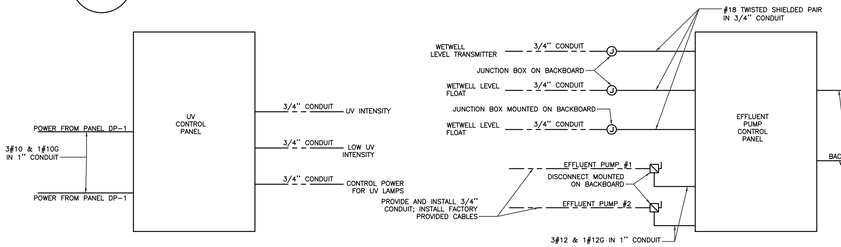
1. WARNING: IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER IN ANY WAY, ANY PLANS, SPECIFICATIONS, PLATS, OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER OR LAND SURVEYOR HAS BEEN AFFIXED.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COORDINATION WITH UTILITY COMPANY FOR NEW SERVICE. CONTRACTOR TO PAY ALL FEES TO UTILITY COMPANY FOR NEW SERVICE AT TREATMENT PLANT SITE.
3. ELECTRICAL CONTRACTOR SHALL REFER TO SPECIFICATIONS AS WELL AS SCHEDULES ON SHEET G-003 FOR EQUIPMENT, INSTRUMENTATION AND CONTROL PANELS TO BE PROVIDED BY GENERAL CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR AND APPROVED SHOP DRAWINGS OF EQUIPMENT, INSTRUMENTATION AND CONTROL PANELS FOR FINAL WIRING REQUIREMENTS.

SYMBOL LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- FACTORY CABLES IN CONTRACTOR SUPPLIED CONDUIT
- FLUORESCENT TROFFER
- COMBINATION EMERGENCY/EXIT LIGHT
- EMERGENCY LIGHT
- $ SWITCH
- $3 3-WAY SWITCH
- UNSWITCHED CIRCUITRY
- SWITCHED CIRCUITRY, CONTROL WIRING
- HOME RUN. A=PANEL B=CIRCUIT No.
- No. CONDUCTORS (EXCLUDING GROUND)
- DUPLEX RECEPTACLE; MOUNT 18" AFF.
- DUPLEX RECEPTACLE – MOUNTED 4" ABOVE COUNTER BACK SPLASH
- DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER.
- EXISTING RECEPTACLE
- FRACTIONAL HP MOTOR
- NON-FUSED DISCONNECT
- EXISTING PANEL
- CONTROL PANEL
- PRESSURE SENSOR
- JUNCTION BOX



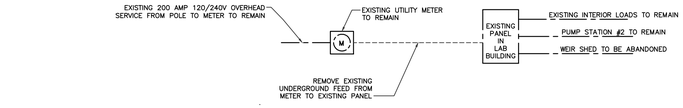
1 E-101 DETAIL - UNDERGROUND CONDUIT/CABLE
SCALE: NTS



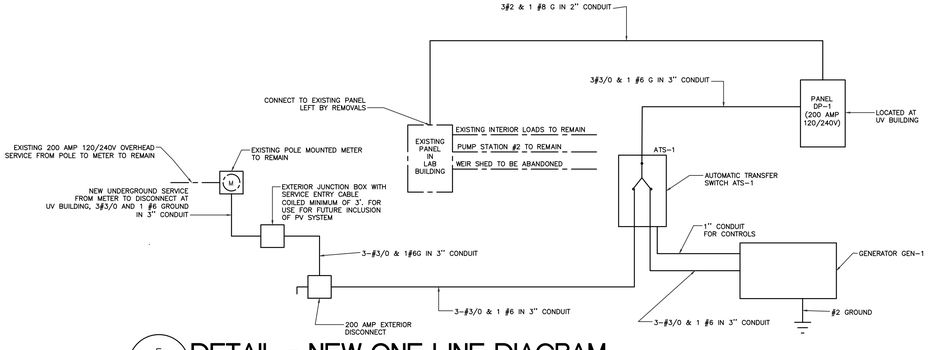
UV CONTROL PANEL NOTES
1. WIRING FROM UV CONTROL PANEL TO UV LAMPS AND UV INTENSITY SENSORS TO BE FURNISHED BY GENERAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT.

3 E-101 DETAIL - PUMP CONTROL PANEL
SCALE: NTS

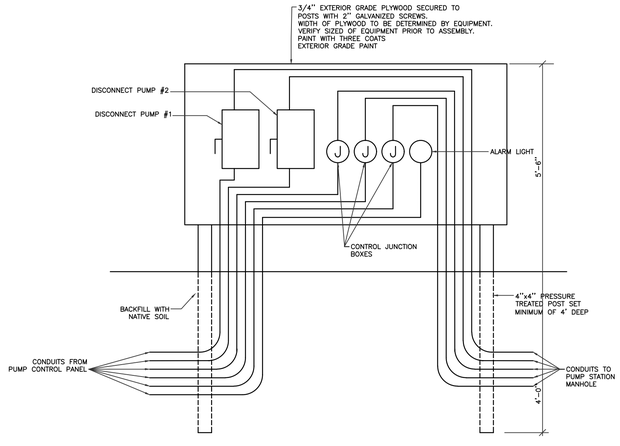
2 E-101 DETAIL - UV CONTROL PANEL
SCALE: NTS



4 E-101 DETAIL - EXISTING ONE LINE DIAGRAM
SCALE: NTS



5 E-101 DETAIL - NEW ONE LINE DIAGRAM
SCALE: NTS



6 E-101 DETAIL - ELECTRICAL BACKBOARD
SCALE: NTS

ABBREVIATIONS

NOTE: NOT ALL ABBREV. MAY BE USED. VERIFY ALL DISCREPANCIES PRIOR TO CONSTRUCTION.

@	AT
ACT.	ACOUSTIC TILE
ADM.	ADMINISTRATION
A.F.F.	ABOVE FINISHED FLOOR
AL.	ALUMINUM
APPROX.	APPROXIMATE
BD.	BOARD
BL.	BLOCK
BLDG.	BUILDING
BOT.	BOTTOM
B. PL.	BEARING PLATE
BSMT.	BASEMENT
CH.	CHANNEL
C.I.	CAST IRON
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
C.O.	CLEANOUT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CPT.	CARPET
C.T.	CERAMIC TILE
CTR.	CENTER
C.W.	COLD WATER
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DN.	DOWN
DPCO	DECK PLATE CLEANOUT
DR.	DOOR
DWG.	DRAWING
DWHTR	DOMESTIC WATER HEATER
(E)	EXISTING
EA.	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
E.C.	ELECTRICAL INSTALLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EX.	EXISTING
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION
EXR.	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
FAI	FRESH AIR INTAKE
FDN.	FOUNDATION
F.F.	FINISHED FLOOR
FIN.	FINISH
FL.	FLOOR
FR.	FRAME
FTG.	FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR OR INSTALLER
GFB.	GROUND FACE BLOCK
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GWB	GYPSUM WALL BOARD
GYP.	GYPSUM
H	HOT WATER
H.C.	HVAC INSTALLER
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HTD.	HEATED
H&V	HEATING & VENTILATING
HVAC	HEATING, VENTILATION & AIR CONDITIONING
H.W.	HOT WATER
H.W.R.	HOT WATER RETURN
INSUL.	INSULATION
JT.	JOINT
LLH.	LONG LEG HORIZONTAL
LLV.	LONG LEG VERTICAL
MAT'L	MATERIAL
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
M.E.	MATCH EXISTING
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OFF.	OFFICE
OPG.	OPENING
P.	PAINT
PAVT.	PAVE TILE
P.C.	PLUMBING INSTALLER
PL.	PLASTER
PR.	PAIR
P.T.	PRESSURE TREATED
R.D.	ROOF DRAIN
REINF.	REINFORCING
REQ.	REQUIRED
RES.	RESILENT
R.S.F.	RESILENT SHEET FLOORING
R.T.	RESILENT TILE
SAN	SANITARY
S.C.	SOLID CORE
SIM.	SIMILAR
S.S.	STAINLESS STEEL
ST.	STEEL
STD.	STANDARD
STO.	STORAGE
SUSP.	SUSPENDED
TEL.	TELEPHONE
T&G	TONGUE & GROOVE
TR.	TRENCH
TYP.	TYPICAL
V	VENT
VCT	VINYL COMPOSITION TILE
VSF	VINYL SHEET FLOORING
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WASTE
W/	WITH
WD	WOOD
WWF	WOVEN WIRE FABRIC
WR	WATER RESISTANT

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
	12/15/20	BID DOCUMENTS	SMP	SMP	12/15/20

PROJ. MANAGER:	SMP
CHIEF DESIGNER:	-
DESIGNED BY:	SMP
DRAWN BY:	SMP
CHECKED BY:	-

STATE OF NEW YORK · SUSAN M. PALMER · LICENSED PROFESSIONAL ENGINEER · 083015
DATE

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518-877-8566

HA2F PROJ. NO. 2019008.00

Engineering and Land Surveying, P.C.
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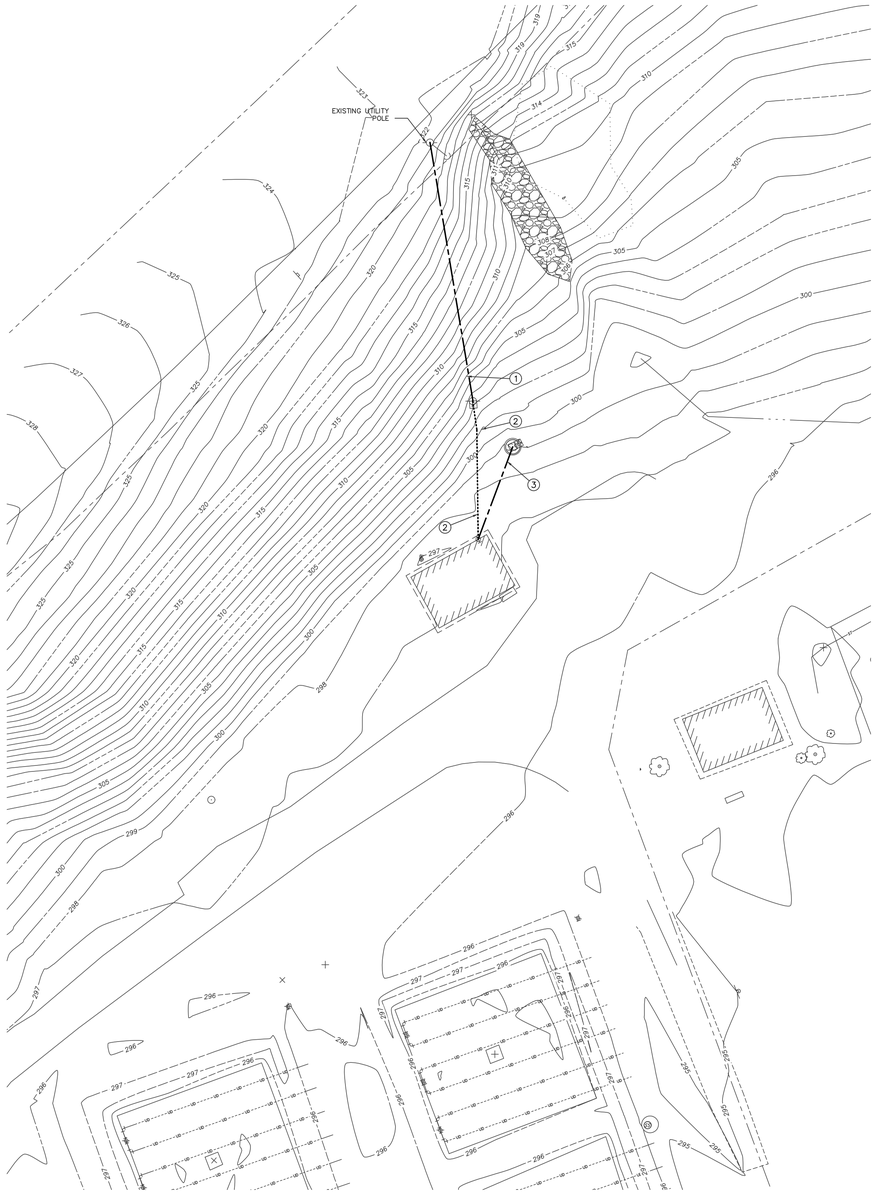
TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

ELECTRICAL GENERAL INFORMATION SCHEDULES AND DETAILS

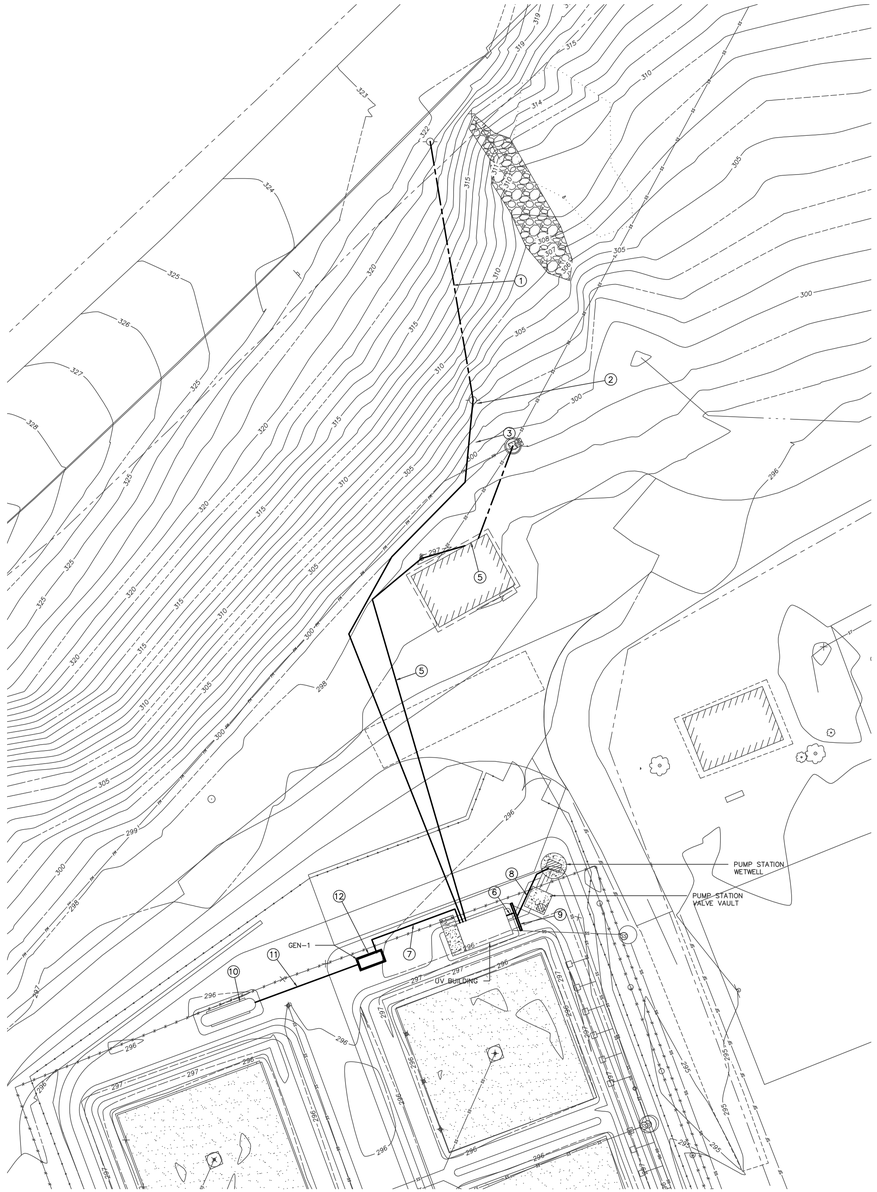
ESSEX COUNTY NEW YORK

SCALE: AS SHOWN
CONTRACT No.: G, E
MJ PROJ. No.: 1075.02
DATE: 08/11/2020

E-001



1 ES-101 DETAILS - REMOVALS SITE PLAN
SCALE: 1"=20'-0"



2 ES-101 DETAILS - NEW WORK SITE PLAN
SCALE: 1"=20'-0"

CONSTRUCTION NOTES REMOVALS

1. EXISTING 200 AMP 120/240 SINGLE PHASE OVERHEAD ELECTRIC SERVICE TO POLE TO REMAIN.
2. EXISTING 200 AMP SERVICE METER SERVING LAB BUILDING TO REMAIN.
3. REMOVE EXISTING SERVICE MAIN FEEDER FROM METER TO PANEL IN LAB BUILDING. RETAIN METER AND PANEL INSIDE LAB BUILDING.
4. EXISTING BRANCH CIRCUIT FROM PANEL INSIDE LAB BUILDING TO PUMP STATION TO REMAIN.

CONSTRUCTION NOTES NEW WORK

1. EXISTING 200 AMP 120/240V SERVICE OVERHEAD FROM UTILITY POLE TO SERVICE DROP POLE RETAINED BY REMOVALS.
2. EXISTING DROP SERVICE RETAINED BY REMOVALS, RETAIN EXISTING METER.
3. NEW UNDERGROUND SERVICE FROM METER TO UV BUILDING. SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING SIZES.
4. UNDERGROUND FEED FROM PANEL DP-1 IN UV BUILDING TO EXISTING PANEL IN LAB BUILDING.SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING SIZES.
5. PROVIDE NEW WIRING AND CONDUIT FROM 200 AMP DISCONNECT TO REPOWER EXISTING LAB PANEL. SEE ONE LINE DIAGRAM FOR WIRING AND CONNDUIT SIZING.
6. UNDERGROUND FEED AND CONTROLS FROM PUMP CONTROL PANEL TO PUMP STATION. SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING SIZES.
7. UNDERGROUND FEED FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH LOCATED IN UV BUILDING. SEE ONE LINE DIAGRAM FOR WIRING AND CONDUIT SIZE.
8. PROVIDE CONDUIT AND INSTALL FACTORY CABLES FOR LEVEL SENSING INSTRUMENTATION AND PUMPS FROM PUMP STATION WETWELL TO OUTDOOR BACKBOARD. PROVIDE JUNCTION BOXES AND DISCONNECTS AT OUTDOOR BACKBOARD. SEE SHEET E-001 FOR ONE LINE DIAGRAM.
9. PROVIDE OUTDOOR BACKBOARD, SEE DETAIL ON SHEET E-001.
10. 1,000 GALLON PROPANE TANK MOUNTED ON CONCRETE PAD. CONCRETE PAD TO BE PROVIDED BY GENERAL CONTRACTOR.
11. UNDERGROUND PROPANE PIPING FROM ABOVE GRADE PROPANE TANK TO GENERATOR.
12. GENERATOR MOUNTED ON CONCRETE PAD, CONCRETE PAD TO BE PROVIDED BY GENERAL CONTRACTOR.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
	12/15/20	BID DOCUMENTS	SMP	SMP	12/15/20

PROJ. MANAGER:	SMP
CHIEF DESIGNER:	-
DESIGNED BY:	SMP
DRAWN BY:	SMP
CHECKED BY:	-

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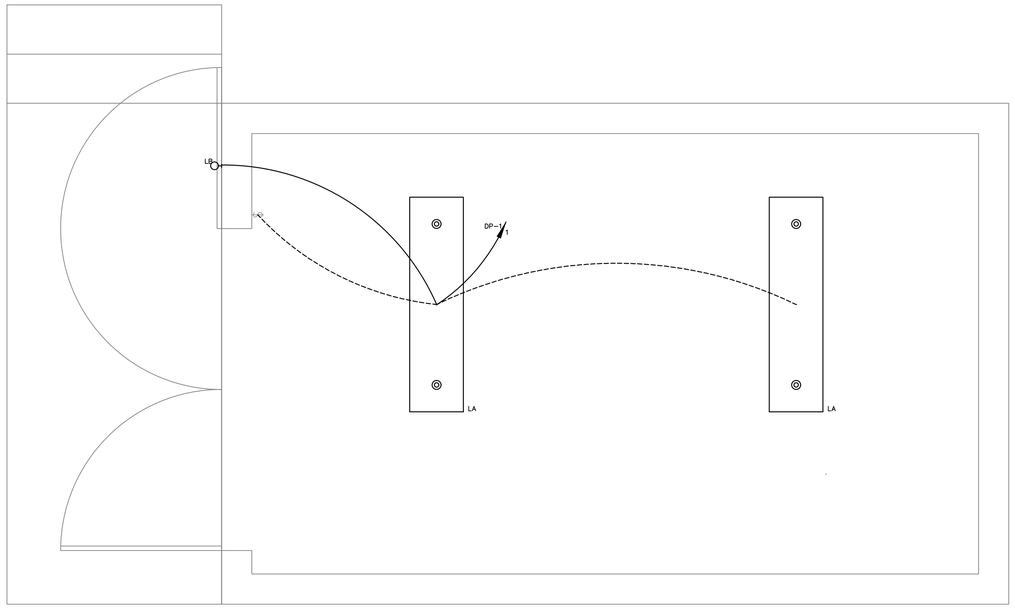
TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

ELECTRICAL SITE PLAN REMOVALS AND NEW WORK

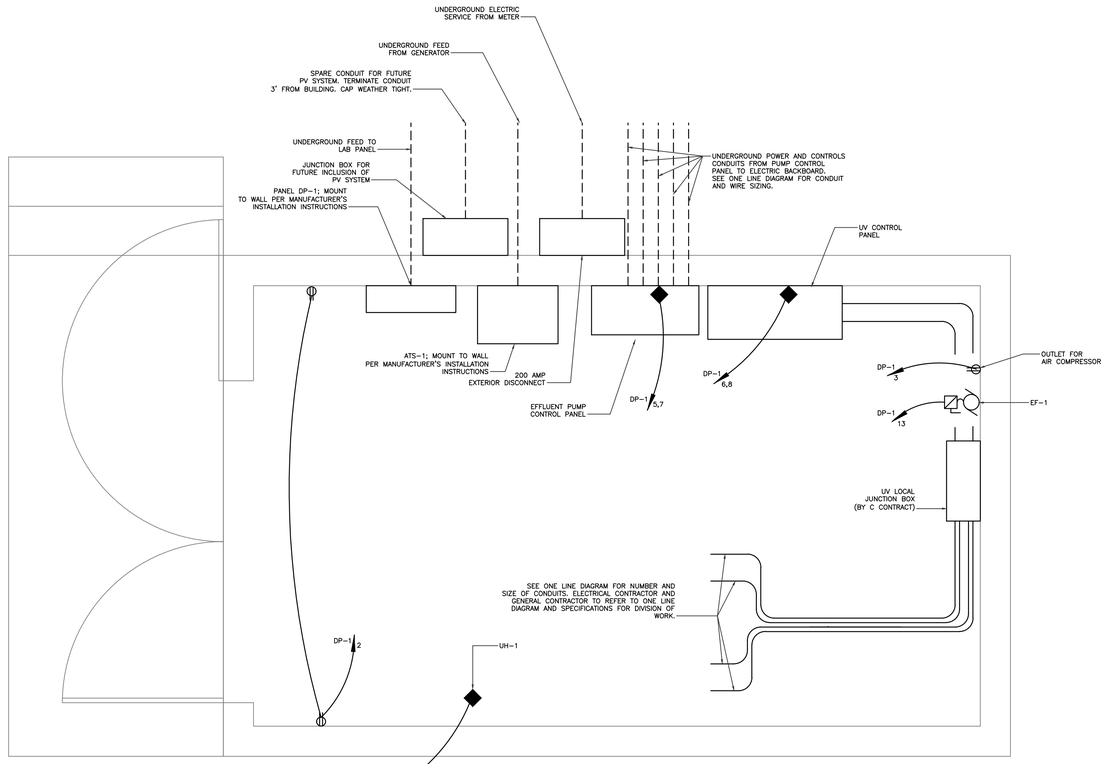
ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	08/11/2020

ES-101



1 E-101 LIGHTING PLAN - UV BUILDING
SCALE: 3/4"=1'-0"



2 E-101 POWER PLAN - UV BUILDING
SCALE: 3/4"=1'-0"

GENERAL NOTES

1. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATION OF CONDUIT STUB UPS THROUGH FLOOR SLAB FOR PANEL DP-1, ATS AND EFFLUENT PUMP CONTROL PANEL.

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE
	12/15/20	BID DOCUMENTS	SMP	SMP	12/15/20

PROJ. MANAGER:	SMP
CHIEF DESIGNER:	-
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STATE OF NEW YORK · SUSAN M. PALMA · 083015 · LICENSED PROFESSIONAL ENGINEER
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518-877-8566

HA2F PROJ. NO. 2019008.00

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TOWN OF WESTPORT
WADHAMS WWTP IMPROVEMENTS

UV DISINFECTION BUILDING
ELECTRICAL NEW WORK
FLOOR PLANS

ESSEX COUNTY NEW YORK

SCALE:	AS SHOWN
CONTRACT No.:	G, E
MJ PROJ. No.:	1075.02
DATE:	08/11/2020

E-101

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