



ENGINEER'S REPORT

SEWER DISTRICT NO. 1 HULETT'S LANDING FOSTER BROOK SEWER MAIN RELOCATION PROJECT

TOWN OF DRESDEN
WASHINGTON COUNTY
NEW YORK

Prepared for: Town of Dresden
256 Cross Road
Clemmons, York 12819

LaBella Project No.: 2230223

Date: February 2024

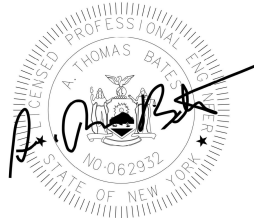




Table of Contents

1.	EXECUTIVE SUMMARY	3
2.	PROJECT BACKGROUND & HISTORY	3
2.1.	Site Information	4
2.2.	Ownership & Service Area	4
2.3.	Existing Facilities	4
2.4.	Need for Project	5
3.	ALTERNATIVE ANALYSIS	5
3.1.	Alternative 1: No Action	5
3.2.	Alternative 2: Relocation of Sewer Force Mains	5
3.3.	Opinion of Probable Cost	6
4.	PREFERRED ALTERNATIVE	7
4.1.	Basis of Selection	7

List of Appendices

Appendix A – Engineer’s Opinion of Probable Cost

Appendix B – Preliminary Drawings



1. EXECUTIVE SUMMARY

The Hamlet of Huletts Landing is a lakeshore community located within the Town of Dresden municipal boundary in Washington County, New York. The Town of Dresden owns and operates a Publicly Operated Sewage System (POSS ID No. NYS 5-5324-00032/00001) within Huletts Landing referred to as Sewer District No. 1 (the system). The system includes gravity sewer mains, force mains, four duplex grinder pump stations, and three outfalls.

There are two existing aerial force main crossings of Foster Brook that have experienced ongoing maintenance issues. During high flow conditions in Foster Brook, the exposed pipes have caught debris and during cold temperatures, the pipes are subject to freezing. For either of these conditions, the force mains are at risk of breaking and thus spilling raw sewage almost directly into Lake George. To significantly reduce the risk of spillage at these crossings, a project to relocate the crossings under the stream is proposed.

This engineering report outlines findings related to the existing aerial crossings and provides recommendations for relocation of the force main crossings, along with an opinion of probable cost. The capital costs associated with the proposed approach is estimated to be approximately \$196,709.

2. PROJECT BACKGROUND & HISTORY

The Town of Dresden, N.Y. currently owns and operates Sewer District No. 1 located in the Hamlet of Huletts Landing. The sanitary sewer system servicing Sewer District No. 1 is comprised of pump stations, surge tanks, gravity sewer pipe, force mains, septic tanks, siphon chambers, seepage pits and leaching fields. The system was constructed in 1995 and services approximately 80 homes in the hamlet.

There are two existing aerial force main crossings of Foster Brook that have experienced ongoing maintenance issues. During high flow conditions in Foster Brook, the exposed pipes have caught debris and during cold temperatures, the pipes are subject to freezing. For either of these conditions, the force mains are at risk of breaking and thus spilling raw sewage almost directly into Lake George.

In 2020, the Lake George Association (LGA) in cooperation with the Town, funded the development of a preliminary design and cost estimates for relocation of the mains under the streambed. The LGA also requested that “rock vanes” be added in the stream to enhance fish habitat and provide added protection to the mains. The intent of the project was to significantly reduce the risk of spillage at these crossings. In January 2022, LaBella (formerly Chazen) presented to the Town and the LGA, preliminary plans (Appendix B) and an opinion of costs for the relocation of the force mains.



The next step is to secure funding and move forward with the proposed project through design, permitting, bidding, and construction.

2.1. Site Information

Dresden is a town located along the eastern shore of Lake George in Washington County, New York. The Hamlet of Huletts Landing is located in the Town of Dresden along the shore of Lake George, which is classified as an AA-S waterbody by the NYSDEC and serves as the potable water supply for several communities around the lake. Further, the NYSDEC has listed Lake George on its Waterbody Inventory/Priority Waterbodies List as Impaired (IR Category 5), PWL ID 1006-0016. Foster Brook, which passes under Eichler Drive and through the hamlet is tributary to Lake George. Although Foster Brook is not shown on the stream designation mapping, the wetland mapping shows Foster Brook connecting to an unnamed stream, which has an AA-S(TS) designation and enters Lake George immediately to the south of the District. Based on this, Foster Brook is assumed to have an AA-S(TS) designation as well.

A review of the NYS Environmental Resource Mapper shows the corridor along Foster Brook as a Riverine Wetland. The Environmental Resource Mapper indicates the District is in the vicinity of plants listed as endangered, threatened, or rare by NYS, and also in the vicinity of animals listed as endangered or threatened.

Consultation with the NYSDEC will be required prior to the advancement of any construction activities associated with this project.

2.2. Ownership & Service Area

Sewer District No. 1 in the Hamlet of Hulett's Landing is owned and operated by the Town of Dresden. The Publicly Owned Sewer System Identification Number for Sewer District No. 1 is NYS 5-5324-00032/00001. The properties within the district are generally single-family vacation homes and there are no outside users, industrial discharges, or hauled waste associated with the sewer district.

2.3. Existing Facilities

The focus of this report is on the proposed project to relocate the two existing force main aerial crossings over Foster Brook, which are referred to as the Northwest Crossing and the Southeast Crossing.



For the Northwest Crossing, sewage from three buildings south of Foster Brook collects in pump station AGPS-01 located to the south of Foster Brook. Flows are conveyed via a 2" PVC force main aerially across Foster Brook, to a manhole in the gravity collection system on the north side of the Brook.

For the Southeast Crossing, sewage from the gravity collection system south of Foster Brook collects in pump station MPS 3-1 located to the south of Foster Brook. Flows are conveyed via a 3" PVC force main, aerially across Foster Brook, to a septic tank and leach field located to the north of the Brook.

Both crossings have concrete abutments on each side of the Brook and the insulated pipes rest on a steel beam/truss support system that extends from abutment to abutment. The force mains are buried up to each abutment and come above ground to pass over the abutments and steel support.

2.4. Need for Project

The existing force main aerial crossings are subject to failure due to debris buildup during high flow events in Foster Brook, as well as freezing during cold periods. In the event of a force main failure, the system presents a hazard to Lake George, as any sewage spillage or backup/overflow is likely to discharge directly into the lake. To substantially reduce the risk of sewage spillage resulting from a break or freezing in the mains at the aerial stream crossing, a project to relocate the force mains under the streambed is needed.

3. ALTERNATIVE ANALYSIS

3.1. Alternative 1: No Action

With no action, the existing force main aerial crossings will continue to operate as is and no efforts will be made to mitigate concerns associated with a failure of the force mains. In the event of a pipe break, the worst-case scenario (from an environmental perspective) involves the resulting untreated discharge of waste to the waters of Lake George. If a break were to occur unnoticed, the pump stations would continue to pump out through the break until noticed. Additionally, if the pipe were to freeze and not break, there is a risk of backup into the pump stations and potential sewage backup into residences, possible pump station overflow, and the expense of system maintenance.

3.2. Alternative 2: Relocate Sewer Force Mains

Alternative 2 includes progressing the project to relocate the sewer force mains under the streambed. By rerouting the mains underground, the potential risk from damage from debris or freezing is minimized.



Construction work under this alternative would involve the following:

- Environmental protection measures.
- Cofferdams & bypass of stream flows.
- Clearing and grubbing along the pipe route.
- Excavation.
- Buried pipe installation.
- New valves each side of Brook.
- Buried tie-in to existing force mains each side of Brook.
- Testing of new pipes.
- Backfill.
- Construction of rock vanes.
- Demolition & removal of existing abutments & steel support structures.
- Site Restoration.

3.3. Opinion of Probable Costs

Alternative 1: The capital costs for the No-action alternative are presumed to be zero, however future costs for repairs and cleanup in the event of a break, spillage, or backup could be very high, and costs to winterize the force mains will continue.

Alternative 2: The opinion of probable cost to relocate the aerial crossings under the streambed was estimated to be approximately \$196,709 including construction, engineering, legal, and contingency. This estimate is based on the level of information available at the time of this report. Also, prices are presented in 2024 dollars, however inflation, shipping costs, extreme material and labor cost fluctuations/increases, and pandemic recovery have led to highly variable bidding conditions/pricing, as such this estimate should be revisited as the project progresses. The Engineer's Opinion of Probable Cost is included in Appendix A.



4. PREFERRED ALTERNATIVE

4.1. Basis of Selection

Providing no upgrades (Alternative 1) to the existing system comes at no initial capital cost, however there is the continuing potential risk of future contamination, cleanup and repair costs, and it does not provide any benefit to removing potential sources of contamination for Lake George.

Alternative 2 minimizes the risk of contamination to Lake George resulting from a break at the crossing locations. Based on the potential consequences of a break, relocation of the force mains is the preferred alternative.

APPENDIX A

Engineer's Opinion of Probable Cost



LaBella Associates, PC
4 British American Blvd.
Latham, NY 12110

Foster Brook Sewer Relocation Project; Town of Dresden, Washington County, New York

Engineer's Opinion of Probable Cost for Foster Brook Sewer Relocation

Date Last Revised 02.02.2024

Sanitary Sewer Utilities						
Item No.	Description	Quantity	Units	Material	Labor and Equipment	Cost
1	Mobilization and General Conditions (6%)	1	LS	\$0	\$5,608	\$5,608
2	Sediment and Erosion Control	1	LS	\$4,212	\$7,235	\$11,447
3	Site Clearing (NYS DOT PIC # 201.07)	1	LS	\$0	\$4,095	\$4,095
4	Cofferdam and Bypass Pumping (NYSDOT Type II) ¹	2	EA	\$4,212	\$8,190	\$24,804
5	Rock Cross Vanes	40	CY	\$65	\$390	\$18,200
6	3" SDR17 PVC Forcemain, incl. excavation and backfill ²	40	LF	\$8	\$205	\$8,502
7	2" SDR17 PVC Forcemain, incl. excavation and backfill ²	40	LF	\$6	\$205	\$8,440
8	3" MJ Gate Valve	2	EA	\$936	\$1,638	\$5,148
9	2" MJ Gate Valve	2	EA	\$780	\$1,365	\$4,290
10	Testing of Sanitary Sewer Mains	1	LS	\$0	\$2,048	\$2,048
11	Demolition of Existing Sanitary Infrastructure	1	LS	\$0	\$6,500	\$6,500
12	Site Restoration	1	LS	\$3,120	\$8,190	\$11,310
SEWER UTILITY CONSTRUCTION SUBTOTAL						\$110,391
20% Construction Contingency						\$22,078
Engineering Design, Bid, Construction Services						\$54,240
Legal Services						\$10,000
SANITARY SEWER UTILITY TOTAL COST						\$196,709

Footnotes:

1. Cofferdam per NYS DOT 553 Type II. Cofferdam will be designed by a NYS Licensed PE engaged by the contractor (this is the requirement for a type II cofferdam per NYSDOT Specifications), as such the total anticipated costs is highly variable for this line item.
2. Labor and equipment includes excavation, backfill and compaction
3. This estimate was developed based on 60% Plans entitled "Stream Crossing Plan and Profile" and dated 2/4/2021. Prices will vary as design progresses.
4. Prices presented in 2024 dollars. Please note that the Pandemic recovery, inflation, material increases, and market conditions have led to highly variable bidding conditions/pricing as such this estimate should be revisited regularly as the project progresses.
5. Costs of the acquisition of easements is not included in this estimate.

APPENDIX B

Preliminary Drawings



INDEX OF DRAWINGS				
PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION
1	0	G001	2/4/21	TITLE SHEET
2	0	G002	2/4/21	NOTES & LEGENDS
3	0	SP1	1/6/21	FOSTER BROOK EXISTING CONDITIONS
4	0	SP2	1/6/21	FOSTER BROOK EXISTING CONDITIONS
5	0	C130	2/4/21	STREAM CROSSING PLAN & PROFILE
6	0	C570	2/4/21	SITE AND SEWER SYSTEM DETAILS

**Dig Safely.
New York**

- ☐ Call Before You Dig
- ☐ Wait The Required Time
- ☐ Confirm Utility Response
- ☐ Respect The Marks
- ☐ Dig With Care

800-962-7962
www.digsafelynewyork.com

1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENTS CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
2. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE FOR ADJACENT STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
3. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND PROTECT THEM AGAINST DAMAGE. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
4. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
5. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
6. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
7. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER. REMOVE EXISTING STRUCTURES THAT WILL NOT BE DEMOLISHED.
8. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
9. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS, OR SIDEWALKS WITHOUT PERMITS. COORDINATE W/ AUTHORITY HAVING JURISDICTION.
10. CONDUCT OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
11. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CURBS.
12. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
13. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE TO ADJACENT AREAS.
14. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AND VEHICLES THROUGH DEMOLITION AREAS.
15. USE SELECTIVE DEMOLITION AND ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS FOUNDATIONS, CURBS, SIDEWALKS, DRIVEWAYS, ETC.
16. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
17. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION. REMOVE DEBRIS AND RETURN ADJACENT AREAS TO EXISTING CONDITION BEFORE START OF SELECTIVE DEMOLITION.
18. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE REMOVED FROM THE PROJECT SITE. ALL DEBRIS TO BE REMOVED FROM THE SITE. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.

1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
3. ALL EXISTING UTILITIES SHALL BE IDENTIFIED AND CONFORM TO THE CONDITIONS THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL EXISTING MONUMENTS.
6. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
7. IN THE EVENT OF A LAKE, STREAM, OR PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOCB), MAILBOXES, SIGN POSTS, ETC. SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS.
8. DISTURBED, REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT, REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT OF ORIGIN, AND REPAIR TO EXISTING CONDITION.
9. IF PREVIOUSLY UNKNOWN CULTURAL, ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER. THE PROJECT CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE WHETHER THE DISTURBED OR DESTROYED PROPERTY IS ELIGIBLE FOR LISTING. IF THE PROPERTY SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. IF ANY ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. IF ANY REMAINS OF PREVIOUSLY EXISTING WILLS, DEEDS, NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES, THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 753.
4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE REUSED, REUSED OR RESEEDED. SEED AND MULCH ONLY. RESEED AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST THEM. REMOVE ALL TREES AND SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. NO STORAGE OF MATERIALS, EQUIPMENT AND SUPPLIES TO BE ALLOWED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
7. REMOVE ALL TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
8. IF PREVIOUSLY UNKNOWN CULTURAL, ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP THE PROJECT. SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER. CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE APPROPRIATE REMEDIAL ACTION TO BE TAKEN TO PROTECT AND PRESERVE THE SITE. IF THE SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.

1. ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO ANY CONSTRUCTION.
2. IF ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" (EIGHTEEN) INCHES AND A MINIMUM VERTICAL TO (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN ANY EXISTING OR PROPOSED WATER MAIN AND NEW WATER MAIN.
4. IF IT IS NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150psi, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
5. ALL EXISTING UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
6. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HOPE UNLESS OTHERWISE SPECIFIED.
7. ALL SEWER SHALL BE 12" DIA. UNLESS OTHERWISE SPECIFIED.
8. ALL WATER PIPE SHALL BE CL25 DUCTILE IRON PIPE UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
10. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED. CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
12. IF REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

1. ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY FOR PROTECTION OF PERSONS AND PROPERTY. THIS INCLUDES ALL FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE APPLIED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
2. A MINIMUM OF FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYSDOT, AND LOCAL AGENCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
4. THE CONTRACTOR SHALL NOTIFY EACH ADJACENT UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS INTENTION TO USE EXPLOSIVES. NOTICE SHALL BE GIVEN SUFFICIENTLY IN ADVANCE TO EACH ADJACENT UTILITY OWNER TO ALLOW THEM TO TAKE NECESSARY ACTION. THIS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS.
5. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS OF THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED.
6. THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACT OF AIRBLAST AND GROUND VIBRATION. AIRBLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE SPECIFIED LEVELS.
7. THE CONTRACTOR SHALL EMPLOY A QUALIFIED AND EXPERIENCED SPECIALIST, WITH EXPERIENCE SHALL BE ONSITE AND SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY.
8. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY PROPERTY OWNERS, AND NEARBY RESIDENTS, AND NEARBY BUSINESSES, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED.
9. DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MANUFACTURER TO THE BLAST SITE SHALL BE BY TRUCK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES.
10. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT, OR GEODIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

THE
Chazen
COMPANIES®
Proud to be Employee Owned

- Glens Falls, NY
- Troy, NY
- Poughkeepsie, NY
- White Plains, NY
- New York City, NY

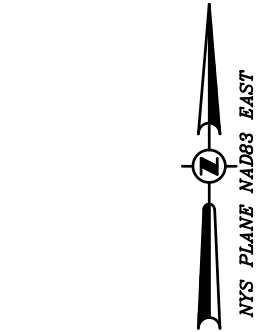
www.chazencompanies.com
(888) 539-9073

rev.	date	description

TOWN OF DRESDEN, WASHINGTON COUNTY, NEW YORK

G002





LEGEND:

EXISTING CONDITIONS:

- APPROXIMATE PROPERTY LINES PER MAP REFERENCES
- APPROXIMATE PROPERTY LINES PER TAX MAP
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SPOT GRADE
- EXISTING BUILDING
- EXISTING GRAVEL DRIVEWAY
- EXISTING STONE WALL
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING UNKNOWN UNDERGROUND LINE
- EXISTING UNDERGROUND SEWER LINE
- EXISTING UNDERGROUND STORM LINE

SYMBOLS:

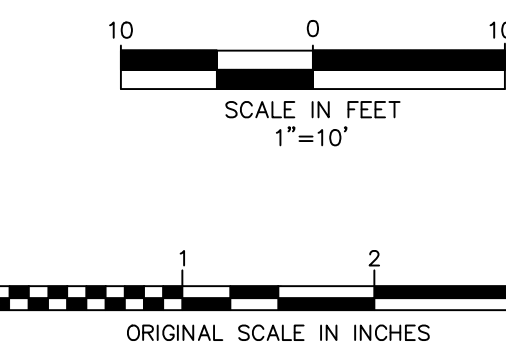
- EXISTING POST
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TREE STUMP
- EXISTING IRON PIPE FOUND
- EXISTING IRON ROD FOUND
- EXISTING CAPPED IRON ROD
- EXISTING BENCHMARK
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- EXISTING DRAINAGE MANHOLE
- EXISTING CATCH BASIN
- EXISTING CATCH BASIN ROUND
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC BOX
- EXISTING ELECTRIC TRANSFORMER
- EXISTING GUY WIRE
- EXISTING UTILITY POLE
- EXISTING AIR CONDITION COMPRESSOR
- EXISTING PANEL/SWITCH BOX
- EXISTING CONDUIT TO/FROM UNDERGROUND
- EXISTING UNKNOWN MANHOLE
- EXISTING SPOT BOTTOM WALL
- EXISTING SPOT TOP WALL
- EXISTING FINISHED FLOOR ELEVATION
- EXISTING RIM ELEVATION
- EXISTING INVERT ELEVATION

FLOOD ZONE CLASSIFICATION:

LANDS ARE SHOWN TO LIE WITHIN "SPECIAL FLOOD HAZARD AREA (UNDATED BY 100-YEAR FLOOD)", ZONE A (NO BASE FLOOD ELEVATIONS DETERMINED) AND ZONE AE (BASE FLOOD ELEVATIONS DETERMINED - ELEVATION=321.00 NGVD 1929). "OTHER FLOOD AREAS", ZONE X (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD), AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF DRESDEN, WASHINGTON COUNTY, NEW YORK IDENTIFIED AS COMMUNITY MAP NUMBER 36141000058 BEARING A REVISION DATE OF SEPTEMBER 20, 1996.

THIS INTERPRETATION OF THE BASE FLOOD ELEVATION SHOULD NOT BE RELIED UPON FOR DESIGN PURPOSES WITHOUT OBTAINING CONFIRMATION FROM THE LOCAL FLOOD ADMINISTRATOR AND/OR FEMA AS TO AGREEMENT OF THIS INTERPRETATION OF THE SPECIAL FLOOD HAZARD AREA.

CONVERSION:
321.00 (NGVD29) = 320.59 (NAVD88)



ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C.

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION ALTERED BY FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED OCTOBER 15, 2020 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION, AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

BRUCE G. WELLS, L.S. #49828

CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C.



www.chazencompanies.com
(888) 539-9073

- Office Locations
- Glens Falls, NY
 - Troy, NY
 - Poughkeepsie, NY
 - White Plains, NY
 - New York City, NY
- Capital District Office
547 River Street
Troy, New York 12180

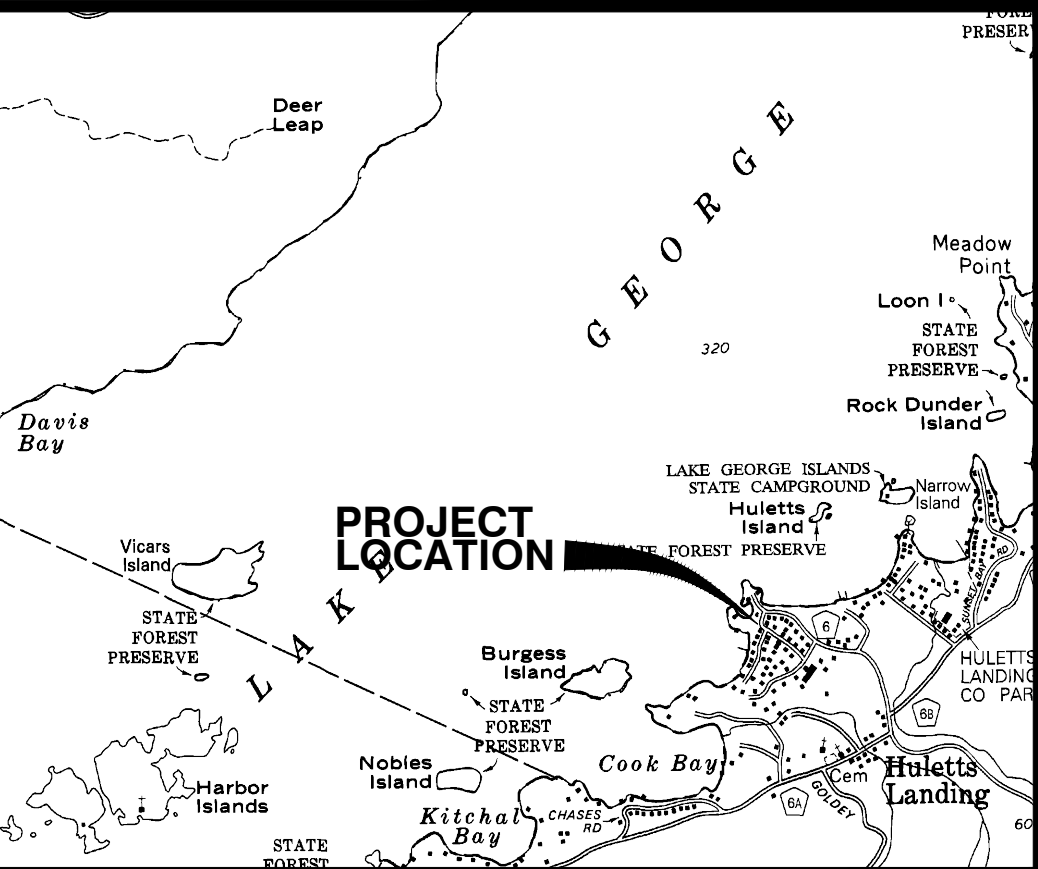
rev.	date	description
1	10/07/21	ADDED MAP REFERENCES.

LAKE GEORGE ASSOCIATION

FOSTER BROOK EXISTING CONDITIONS

TOWN OF DRESDEN, WASHINGTON COUNTY, NEW YORK

designed	checked
JMF	BGW
date	scale
01/06/21	1"=10'
project no.	92024.00
sheet no.	SP1



LOCATION MAP

SOURCE: U.S.G.S. SILVER BAY
SCALE: 1"=2000'

GENERAL NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53 - 45 HOURS PRIOR TO DIGGING CALL U.F.P.O. 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

HORIZONTAL DATUM AND NORTH ORIENTATION ARE BASED ON THE NYS PLANE COORDINATE SYSTEM (NAD83-EAST ZONE) UTILIZING STATIC GNSS OBSERVATIONS. HORIZONTAL DATUM WAS DETERMINED BY GNSS OBSERVATION AT THE TIME OF FIELD SURVEY. (OCTOBER 2020).

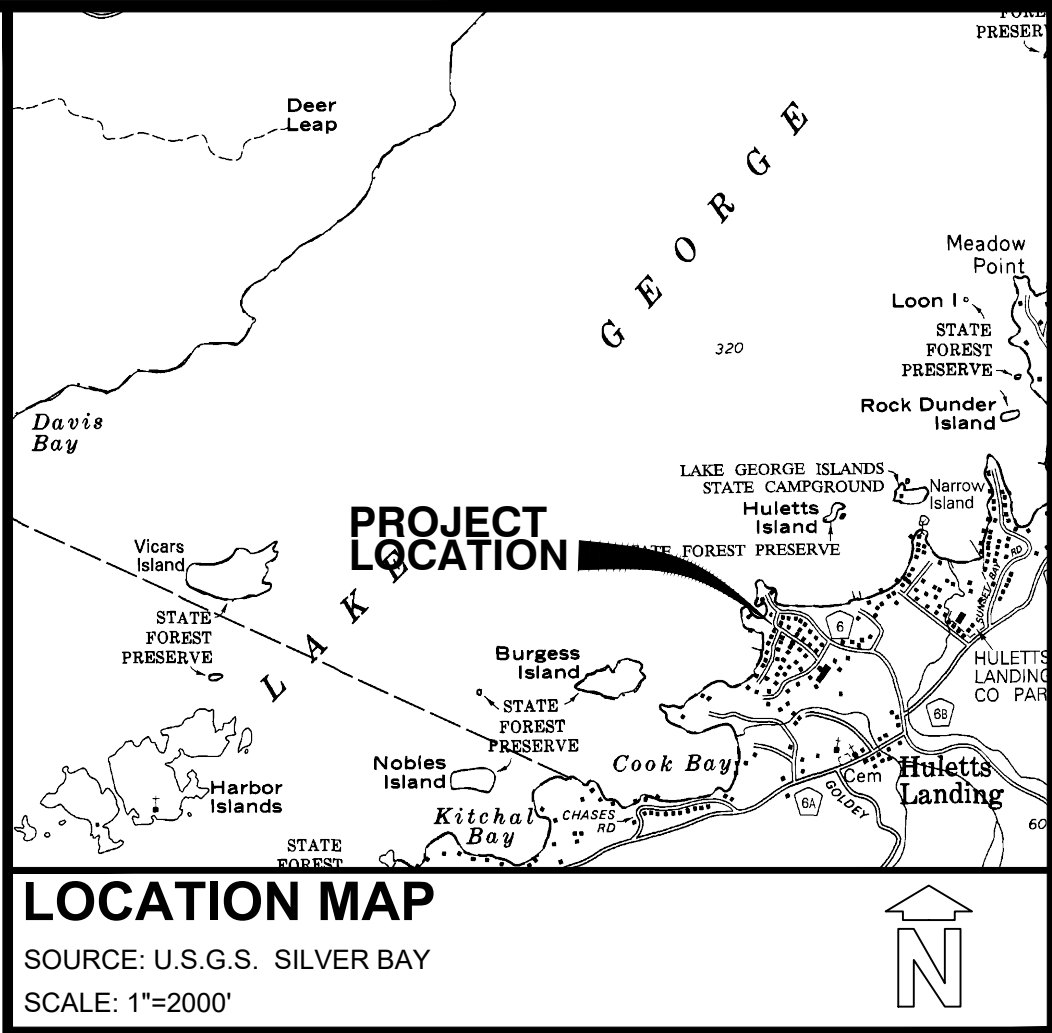
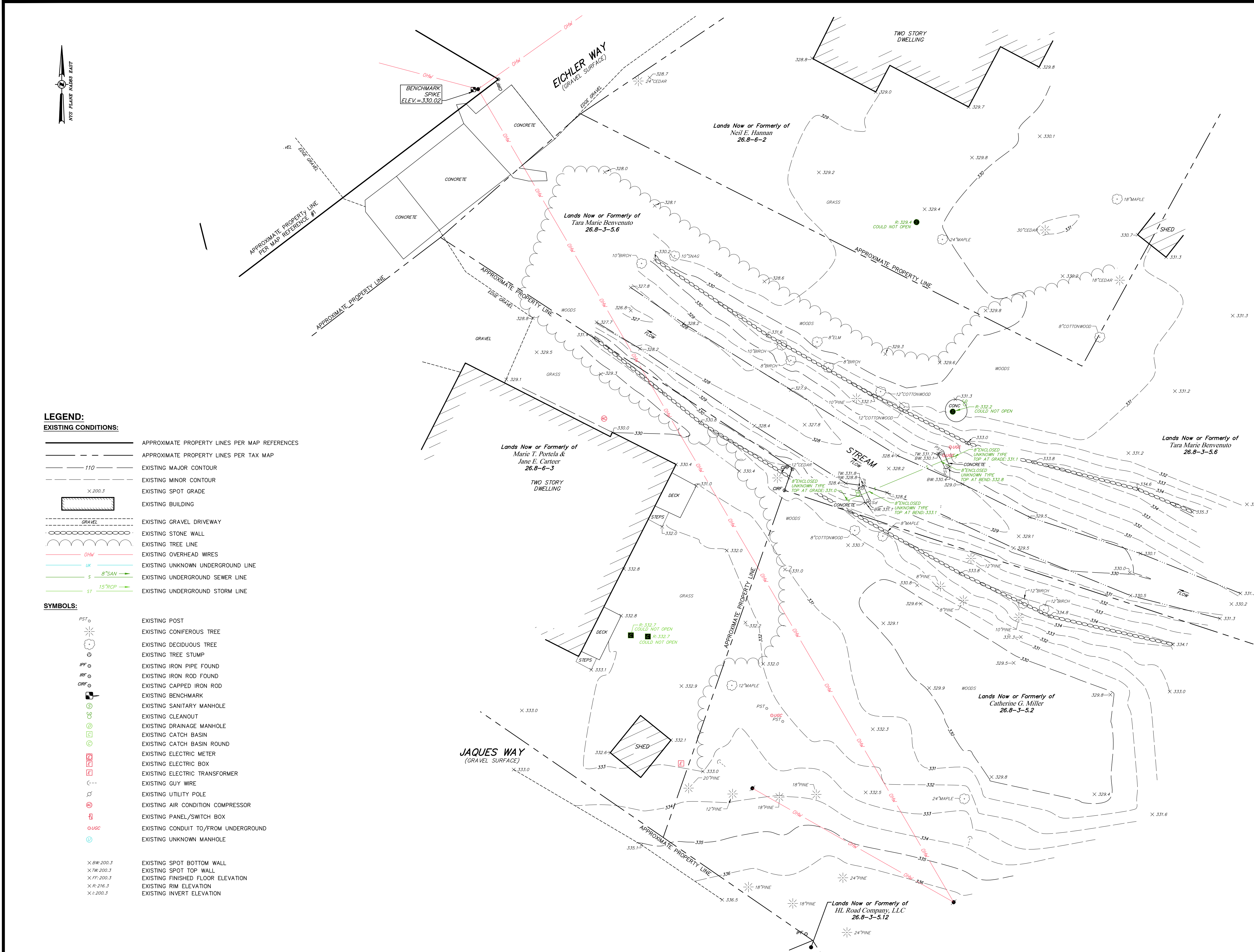
VERTICAL DATUM IS REFERENCED TO LAKE GEORGE WATER ELEVATION AS POSTED BY USGS, LAKE GEORGE AT ROGERS ROCK NY. LAKE ELEVATION MEASURED ON OCTOBER 15, 2020 AT 5:18PM. POSTED ELEVATION 319.07 (NAVD88)

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

PROPERTY LINES SHOWN HEREON ARE APPROXIMATE PER MAP REFERENCES AND GIS TAX LINES. A BOUNDARY SURVEY WAS NOT PERFORMED BY THE CHAZEN COMPANIES.

MAP REFERENCES:

- MAP ENTITLED "CHRISTOPHER A. HUDSON", PREPARED BY JOHN F. GRADY, DATED JUNE 26, 2008.
- MAP ENTITLED "PATRICIA PORTELA & PATRICK GORMAN", PREPARED BY JOHN F. GRADY, DATED JUNE 28, 2017.



GENERAL NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53 - 48 HOURS PRIOR TO DIGGING CALL U.F.P.O. 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

HORIZONTAL DATUM AND NORTH ORIENTATION ARE BASED ON THE NYS PLANE COORDINATE SYSTEM (NAD83-EAST ZONE) UTILIZING STATIC GNSS OBSERVATIONS. HORIZONTAL DATUM WAS DETERMINED BY GNSS OBSERVATIONS AT THE TIME OF FIELD SURVEY. (OCTOBER 2020).

VERTICAL DATUM IS REFERENCED TO LAKE GEORGE WATER ELEVATION AS POSTED BY USGS, LAKE GEORGE AT ROGERS ROCK NY, LAKE ELEVATION MEASURED ON OCTOBER 15, 2020 AT 5:18PM. POSTED ELEVATION 319.07 (NAVD88).

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

PROPERTY LINES SHOWN HEREON ARE APPROXIMATE PER MAP REFERENCES AND GIS TAX LINES. A BOUNDARY SURVEY WAS NOT PERFORMED BY THE CHAZEN COMPANIES.

MAP REFERENCES:

- MAP ENTITLED "CHRISTOPHER A. HUDSON", PREPARED BY JOHN F. GRADY, DATED JUNE 26, 2008.
- MAP ENTITLED "PATRICIA PORTELA & PATRICK GORMAN", PREPARED BY JOHN F. GRADY, DATED JUNE 28, 2017.

FLOOD ZONE CLASSIFICATION:

LANDS ARE SHOWN TO LIE WITHIN "SPECIAL FLOOD HAZARD AREA INUNDED BY 100-YEAR FLOOD", ZONE A (NO BASE FLOOD ELEVATIONS DETERMINED) AND ZONE AE (BASE FLOOD ELEVATIONS DETERMINED - ELEVATION=321.00 NGVD 1929), "OTHER FLOOD AREAS", ZONE X (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD), AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF DRESDEN, WASHINGTON COUNTY, NEW YORK IDENTIFIED AS COMMUNITY MAP NUMBER 3614100005B BEARING A REVISION DATE OF SEPTEMBER 20, 1996.

THIS INTERPRETATION OF THE BASE FLOOD ELEVATION SHOULD NOT BE RELIED UPON FOR DESIGN PURPOSES WITHOUT OBTAINING CONFIRMATION FROM THE LOCAL FLOOD ADMINISTRATOR AND/OR FEMA AS TO AGREEMENT OF THIS INTERPRETATION OF THE SPECIAL FLOOD HAZARD AREA.

CONVERSION:
321.00 (NGVD29) = 320.59 (NAVD88)

10 0 10

SCALE IN FEET
1"=10'

0 1 2 3

ORIGINAL SCALE IN INCHES

ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C.

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION ALTERED BY FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED OCTOBER 15, 2020 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION, AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

CHAZEN ENGINEERING, LAND SURVEYING,
LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C.

THE Chazen COMPANIES
Proud to be Employee Owned

www.chazenco.companies.com
(888) 539-9073

Office Locations
o Glens Falls, NY
o Troy, NY
o Poughkeepsie, NY
o White Plains, NY
o New York City, NY

Capital District Office
547 River Street
Troy, New York 12180

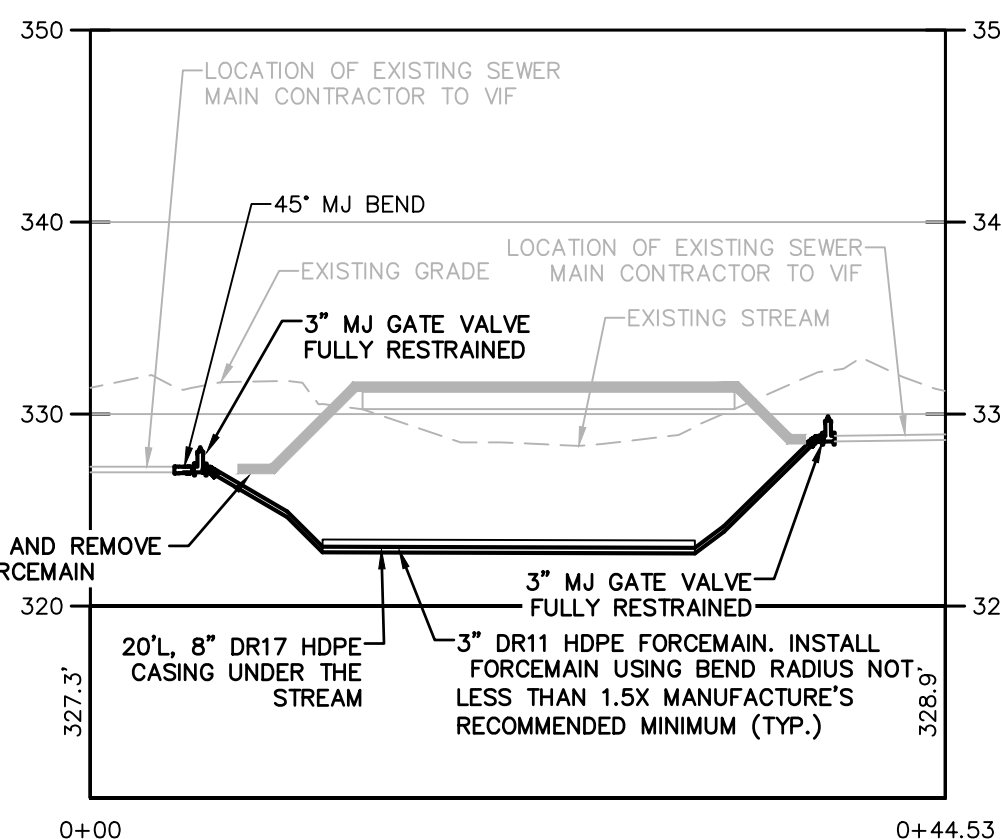
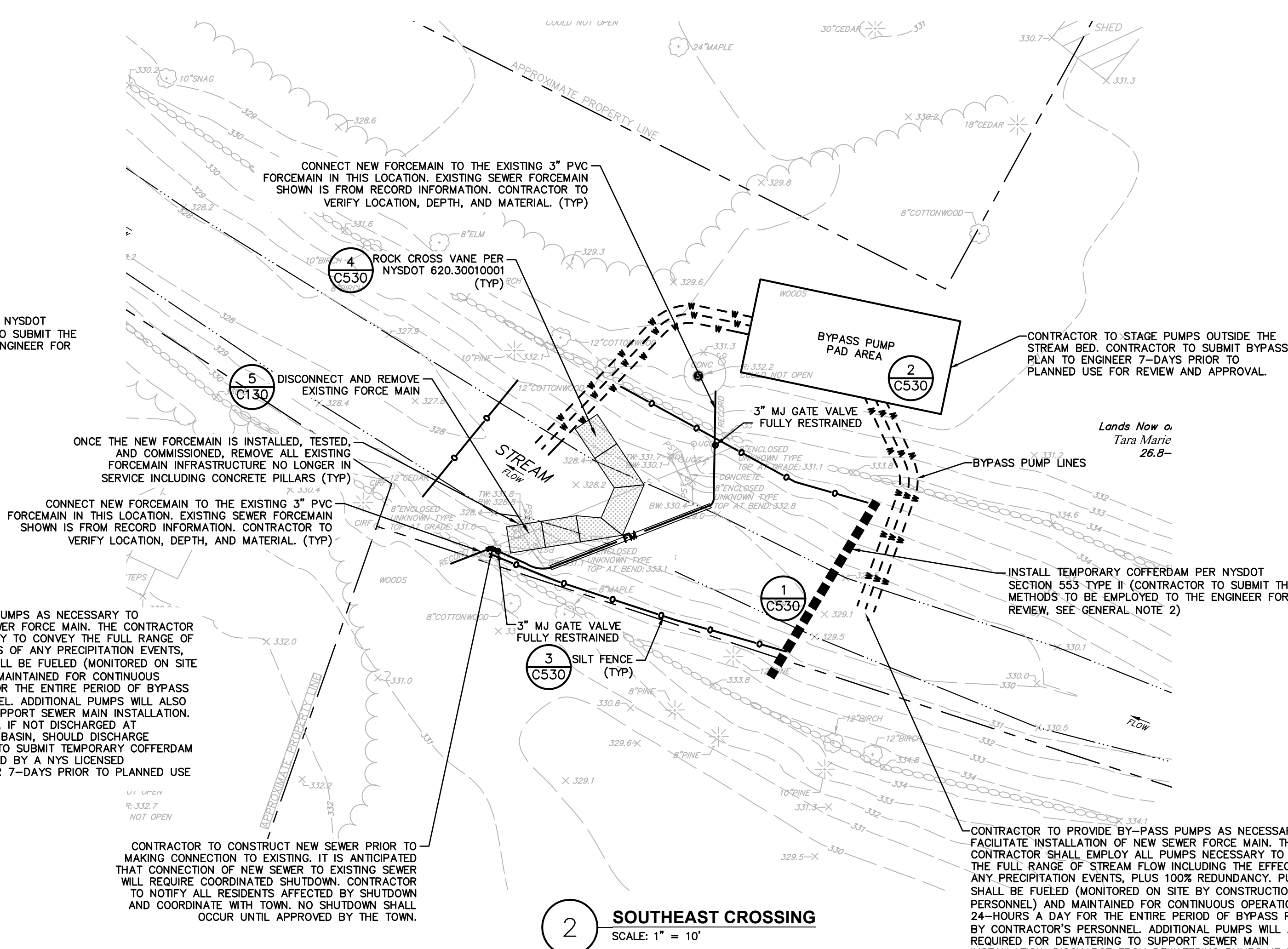
rev.	date	description
1	10/07/21	ADDED MAP REFERENCES.

LAKE GEORGE ASSOCIATION

**FOSTER BROOK
EXISTING CONDITIONS**

TOWN OF DRESDEN, WASHINGTON COUNTY, NEW YORK

designed	checked
JMF	JMT
date	scale
11/09/20	1"=10'
project no.	92024.00
sheet no.	SP2



1. THE CONTRACTOR SHALL SUBMIT A DETAILED STREAM DIVERSION PLAN DETAILING THE SEQUENCE/PHASING OF CONSTRUCTION TO THE ENGINEER NO LESS THAN 7 DAYS PRIOR TO THE START OF WORK FOR APPROVAL.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SELECTION OF MATERIALS USED FOR THE STREAM DIVERSION BARRIER AND SHALL SUBMIT DETAILS AND SPECIFICATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. STREAM DIVERSION BARRIER SHALL MEET THE SPECIFICATIONS OF NYSDOT SECTION 553-3 "CONSTRUCTION DETAILS" FROM THE NYSDOT STANDARD SPECIFICATIONS DATED SEPTEMBER 5, 2013.
3. KEEP CONSTRUCTION EQUIPMENT ON THE STREAM BANKS OR BEHIND COFFERDAMS AT ALL TIMES. CONSTRUCTION EQUIPMENT IS NOT PERMITTED TO WORK WITHIN STREAM.
4. NO EXCAVATED MATERIAL SHALL BE STORED OR STOCKPILED NEXT TO THE DIVERSION OR IN SUCH A MANNER THAT SILTATION OF THE STREAM COULD OCCUR.
5. CONSTRUCT DIVERSION STRUCTURES WITH MATERIALS FREE OF POTENTIAL POLLUTANTS SUCH AS SOIL, SILT, SAND, CLAY, GREASE, OR OIL.
6. WHERE APPROPRIATE, USE NATURAL MATERIALS SUCH AS LARGE COBBLES AND Boulders FOR TEMPORARY EROSION PROTECTION AND SLOPE PROTECTION, OR OTHER TEMPORARY SOIL STABILIZATION METHODS. THESE MATERIALS SHALL NOT BE TAKEN FROM THE STREAMBED WHERE THE EXISTING STREAM FLOWS.
7. PRIOR TO BEGINNING EXCAVATION, THE EROSION AND SEDIMENTATION CONTROL DEVICES AND THE STREAM PUMP AROUND DEVICES SHALL BE APPROVED BY THE ENGINEER.
8. PRIOR TO ADVANCING WORK IN THE STREAM, PHOTOGRAPHS OF THE DEWATERED STREAM BED AND STREAM BED BOTH THE INLET AND OUTLET END SHALL BE TAKEN BY THE CONTRACTOR FOR DOCUMENTATION PURPOSES IN ORDER FOR THE CONTRACTOR TO LATER DEMONSTRATE THAT THE SITE HAS BEEN RESTORED TO PRE-CONSTRUCTION CONDITIONS.
9. CONTRACTOR SHALL SEPARATE AND STORE STREAM BED MATERIAL FOR REUSE FROM OTHER EXCAVATED AND BACKFILL MATERIALS.
10. PLACE EXISTING STOCKPILED STREAM BED MATERIAL IN AREAS OF DISTURBANCE WITHIN STREAM LIMITS BY HAND USING:
PRE-DISTURBANCE PHOTOGRAPHY AS A GUIDE FOR PLACEMENT AND DENSITY OF LARGE AND SMALL COBBLES, ROCKS AND SILT. THE PLACEMENT SHOULD RESTORE PRE-EXISTING CONDITIONS AND CONTOURS UNLESS OTHERWISE NOTED ON PLANS.
11. CONTRACTOR SHALL RESTORE STREAM BED AND BANKS TO ORIGINAL LINES AND GRADES AND CONDITIONS WITH STOCKPILED STREAM BED MATERIAL UNLESS OTHERWISE NOTED ON PLANS.
12. CONTRACTOR MAY NOT REMOVE DEWATERING COFFERDAM OR BY-PASS PUMP UNTIL THE ENGINEER HAS APPROVED AND DOCUMENTED, THROUGH PHOTOGRAPHY, THE RESTORATION OF THE STREAM BED AND BANKS TO PRE-CONSTRUCTION CONTOURS AND CONDITIONS AT THE INLET AND OUTLET.
13. ALL DISTURBED AREAS SHALL BE STABILIZED & REVEGETATED, OR AS OTHERWISE INDICATED ON THE PLANS.

NOTE:
1. ALL JOINTS SHALL BE THRUST RESTRAINED MEGALUG OR APPROVED EQUAL

NOTE:
1. ALL JOINTS SHALL BE THRUST RESTRAINED MEGALUG OR APPROVED EQUAL

PHOTO OF EXISTING FORCE MAIN
SCALE: N.T.S.

