

CITY OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER AND SEWER OPERATIONS  
ENGINEERING

AMENDED DRAINAGE PLAN  
**CI-126C**

THIS DRAINAGE PLAN AMENDS PREVIOUSLY DESIGNED/ADOPTED DRAINAGE PLAN # \_\_\_\_\_

SHOWING LOCATION, SIZES AND GRADES OF SEWERS IN AREA BOUNDED APPROXIMATELY BY \_\_\_\_\_ (SEGMENT WILL ADJUST VERTICALLY AND HORIZONTALLY TO ACCOMMODATE UP TO 5 LINES OF TEXT)

BOROUGH OF \_\_\_\_\_

This plan was prepared by the Commissioner of The Department of Environmental Protection under Section 683 of the New York City Charter

APPROVED FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPROVED FOR THE DEPARTMENT OF HEALTH

\_\_\_\_\_  
P.E. \_\_\_\_\_  
CHIEF, \_\_\_\_\_  
DIVISION OF REVIEW AND CONSTRUCTION COMPLIANCE

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P.E. \_\_\_\_\_  
DIRECTOR OF ENGINEERING  
BUREAU OF WATER AND SEWER OPERATIONS

\_\_\_\_\_  
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DEPUTY COMMISSIONER  
BUREAU OF WATER AND SEWER OPERATIONS

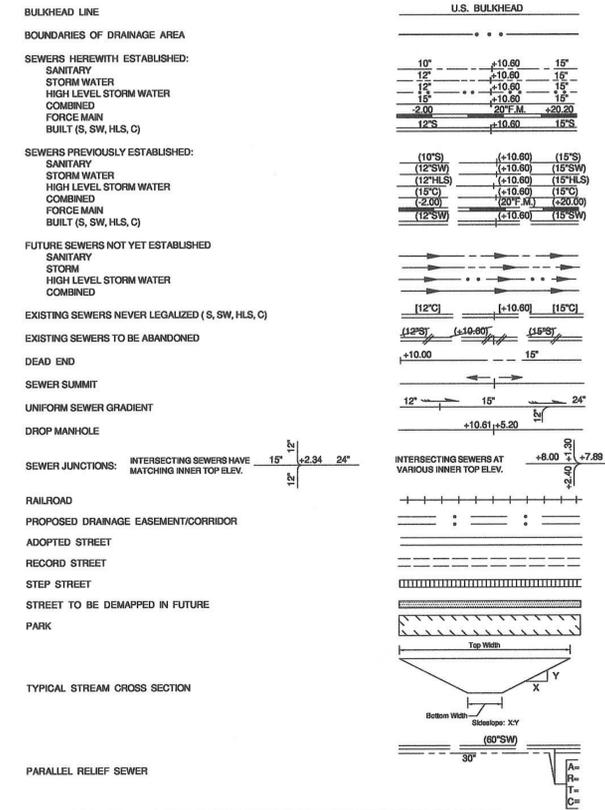
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DIRECTOR OF CITY PLANNING

SEWER SYMBOLS



FOR SEWERS OTHER THAN CIRCULAR SECTION, SHOW THE WIDTH, HEIGHT AND EQUIVALENT CIRCULAR SIZE IN EACH SEWER. SHOW THE WIDTH FIRST IN THIS MANNER:

FLAT TOP SEWER 10' 0" W X 8' 0" H (108" D)

ELLIPTICAL SEWER 76" W X 48" H (60" D)

ALSO SHOW THE TYPICAL CROSS SECTIONS IN THE COMPUTATION SHEETS.

STREET GRADE ELEVATION

ADOPTED 12.34

EXISTING (12.34)

LOWER ELEVATION AT GRADE SEPARATION 12.24

TAX BLOCK NUMBER 1234

ALL SEWER ELEVATIONS SHOWN ARE INNER TOP ELEVATIONS

A = TOTAL TRIBUTARY AREA IN ACRES

A<sub>HL</sub> = TOTAL TRIBUTARY AREA IN ACRES FOR HIGH LEVEL SEWERS (A<sub>HL</sub> = 0.5A)

R = RAINFALL INTENSITY IN IN/HR COMPUTED BY THE FORMULA  $R = \frac{125}{T+1.5}$

T = 1 + e

e = ACCUMULATIVE SEWER TRAVEL TIME IN MINUTES BETWEEN MANHOLES

e = INITIAL ENTRANCE TIME IN MINUTES

C = COEFFICIENT OF RUNOFF



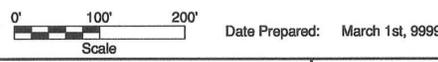
NOTES

THE STORM AND COMBINED SEWERS SHOWN ON THIS DRAINAGE PLAN ARE INTENDED TO HAVE A CAPACITY ADEQUATE TO THE REASONABLE NEEDS OF THE DRAINAGE DISTRICT FOR A LIMITED PERIOD AND ARE NOT INTENDED TO BE OF SUFFICIENT CAPACITY TO IMMEDIATELY REMOVE STORM WATER WHEN THE RATE OF PRECIPITATION EXCEEDS AN INTENSITY OF "R" INCHES PER HOUR WHICH IS 1.75" PER HOUR FOR A STORM OF FIVE YEAR RETURN FREQUENCY CONTINUING THROUGH "T" MINUTES, "C" PERCENT OF WHICH WILL REACH THE SEWERS WITHIN THAT TIME. THE CAPACITY OF THE SYSTEM HAS BEEN ESTABLISHED FOR THE PURPOSE OF KEEPING THE COST WITHIN LIMITS WHICH ARE DEEMED ECONOMICALLY REASONABLE.

THE CITY OF NEW YORK WILL NOT BE RESPONSIBLE FOR DAMAGES BY SURCHARGING IN ANY CASE IN WHICH THE INVERT ELEVATION OF THE HOUSE CONNECTION AT THE CURB LINE IS LESS THAN THE HYDRAULIC GRADE OF ANY SEWER THROUGH WHICH IT OUTLETS.

THE CITY OF NEW YORK ASSUMES NO LIABILITY FOR DAMAGES DUE TO SURCHARGING OF "BUILT SEWERS PREVIOUSLY AND HEREWITH ESTABLISHED" WHICH MAY OCCUR BEFORE THE FUTURE ESTABLISHED OUTLET SEWERS, DESIGNED ON THE BASIS OF ESTABLISHED ZONING HAVE BEEN BUILT. UNTIL THE FUTURE OUTLET SEWERS ARE ESTABLISHED AND BUILT, ALLOWABLE FLOWS INTO THE "HEREWITH ESTABLISHED SEWERS" ARE LIMITED TO THE FLOW VALUES WHICH THE EXISTING OUTLET SEWERS WERE DESIGNED TO ACCEPT.

THE ELEVATIONS SHOWN ON THIS MAP REFER TO THE BOROUGH OF \_\_\_\_\_ SEWER DATUM PLANE WHICH IS \_\_\_\_\_ FEET ABOVE MEAN SEA LEVEL AS ESTABLISHED BY THE UNITED STATES COAST AND GEODETIC SURVEY AT SANDY HOOK, NEW JERSEY.



No.	Date	Revisions	By	IT IS A VIOLATION OF SECTION 2308.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	DESIGNED _____	_____ Consultant's Logo here _____ Consultant's Company Name Here _____ Company Address here		DEPARTMENT OF ENVIRONMENTAL PROTECTION		<h1>CI-126C</h1>	Sheet ____ of ____
				DRAWN _____	REVIEWED BY _____						
				CHECKED _____	_____ P.E. _____ CHIEF, DRAINAGE REVIEW SECTION						
				PROJECT ENGINEER _____	_____ DATE						