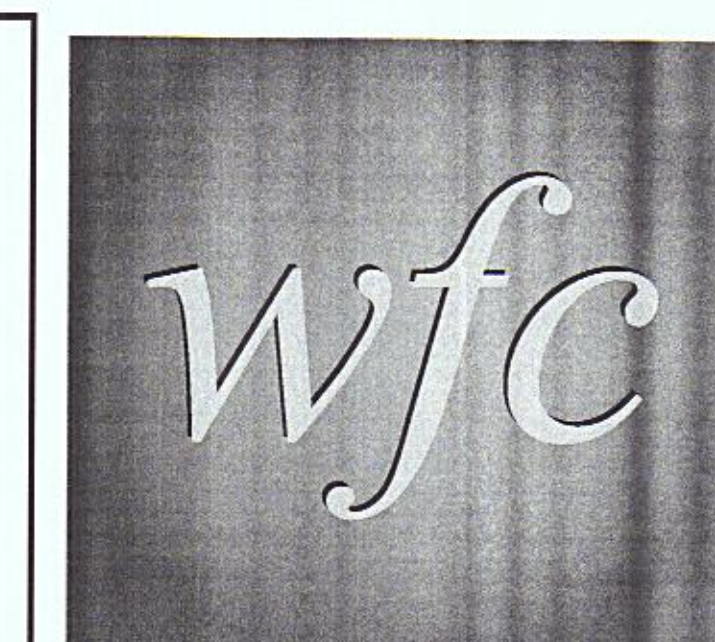
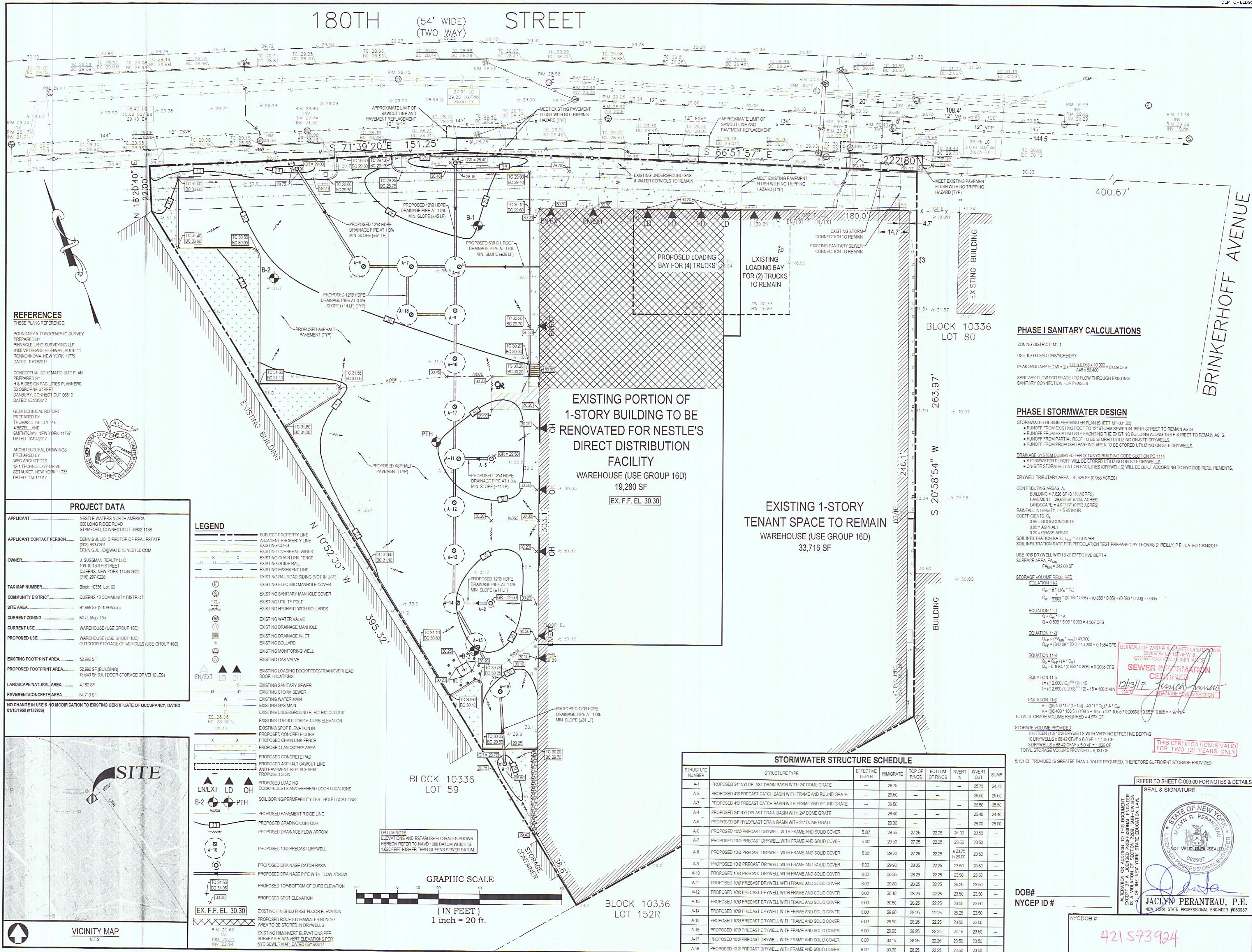




ARCHITECTS

12-1 TECHNOLOGY DRIVE, SETAUKET, NY 11733
P. 631.689.8450 | F. 631.689.8459 |
www.wfegia.com

MEP ENGINEER:

Jacobsen & Horan Engineering, P.C.
990 South 2nd St. Ronkonkoma, NY 11779
O: (631) 580-6100 F: (631) 580-6100
www.jhepc.com

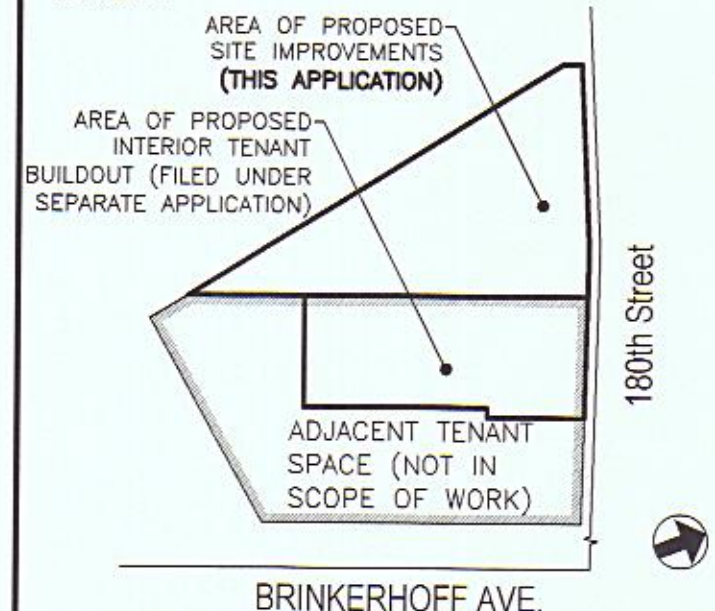
SITE ENGINEER:



NO.	DATE	SUBMISSION
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[illegible]

KEY PLAN:



NESTLE WATER NORTH AMERICA
NEW DIRECT DISTRIBUTION
FACILITY

109-10 180TH STREET
JAMAICA, NY 11433
BLOCK 10336, LOT 60

TITLE:
**GRADING, DRAINAGE &
UTILITY PLAN**

DATE: 11/22/17

PROJECT NO: 17063

DRAWN BY:

CHECKED BY: _____

SCALE:

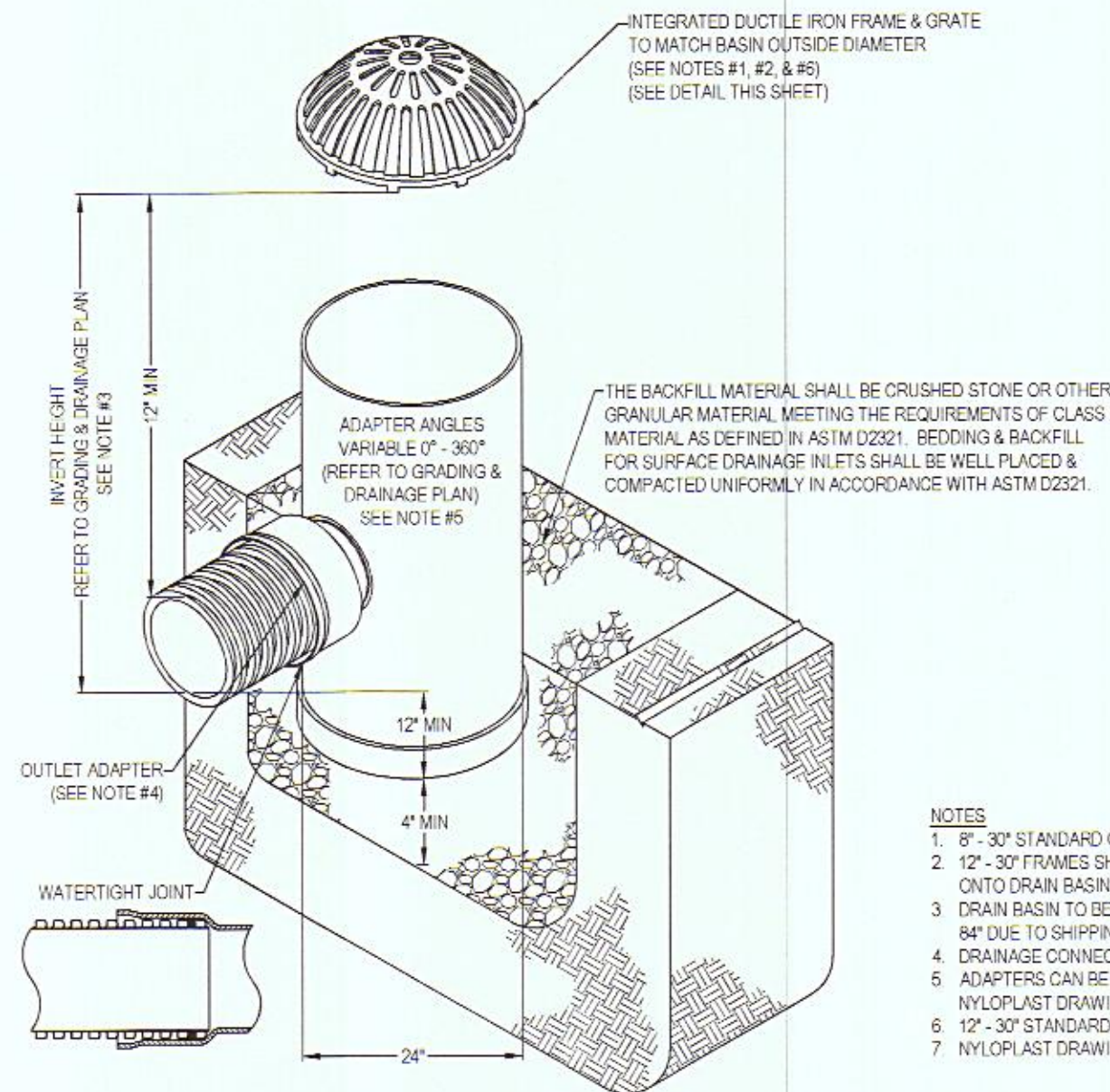
DRAWING NO: _____

DRAWING NO.:

C-002 00

0-002.00

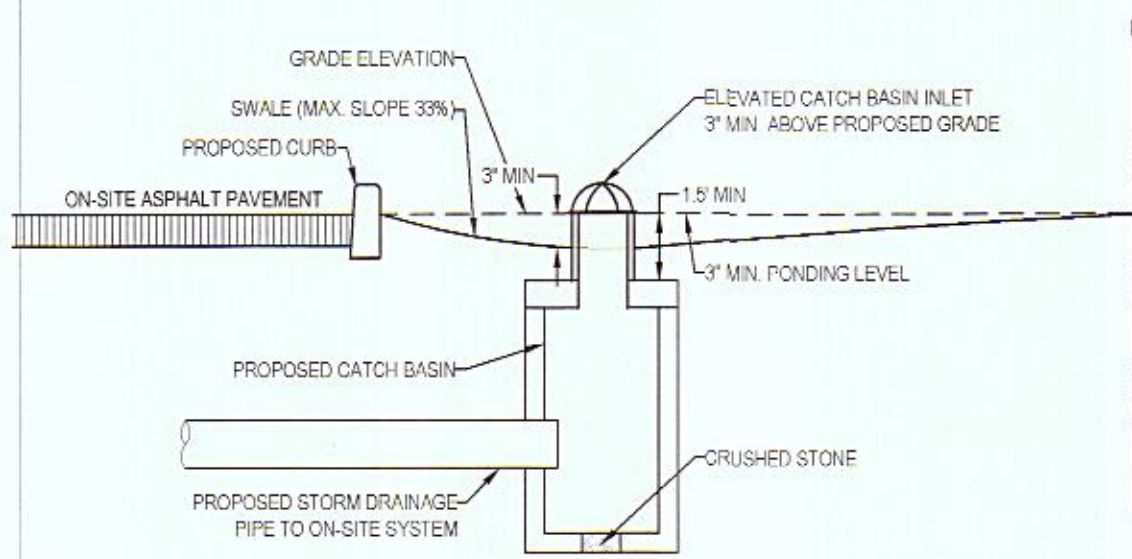
1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.



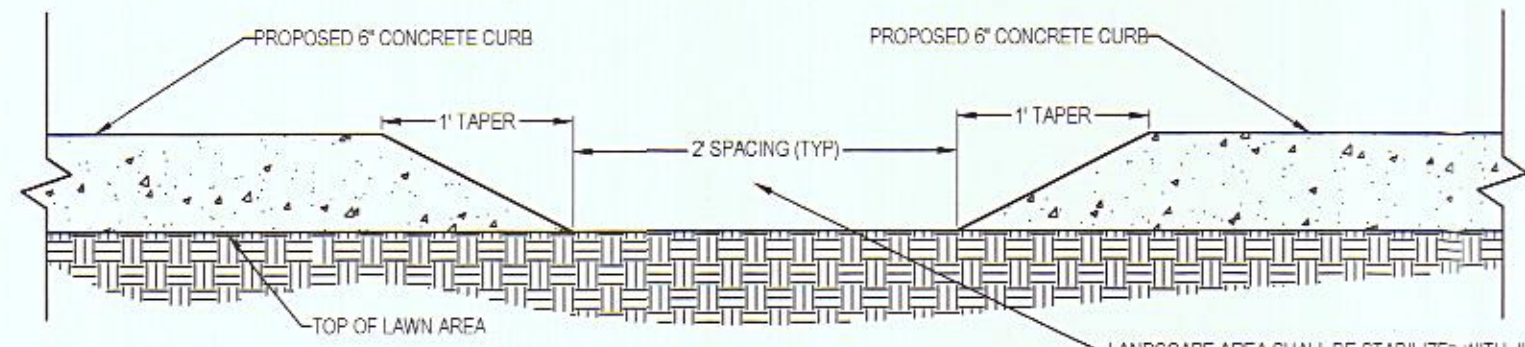
24\"/>

- NOTES**
- 8\"/>

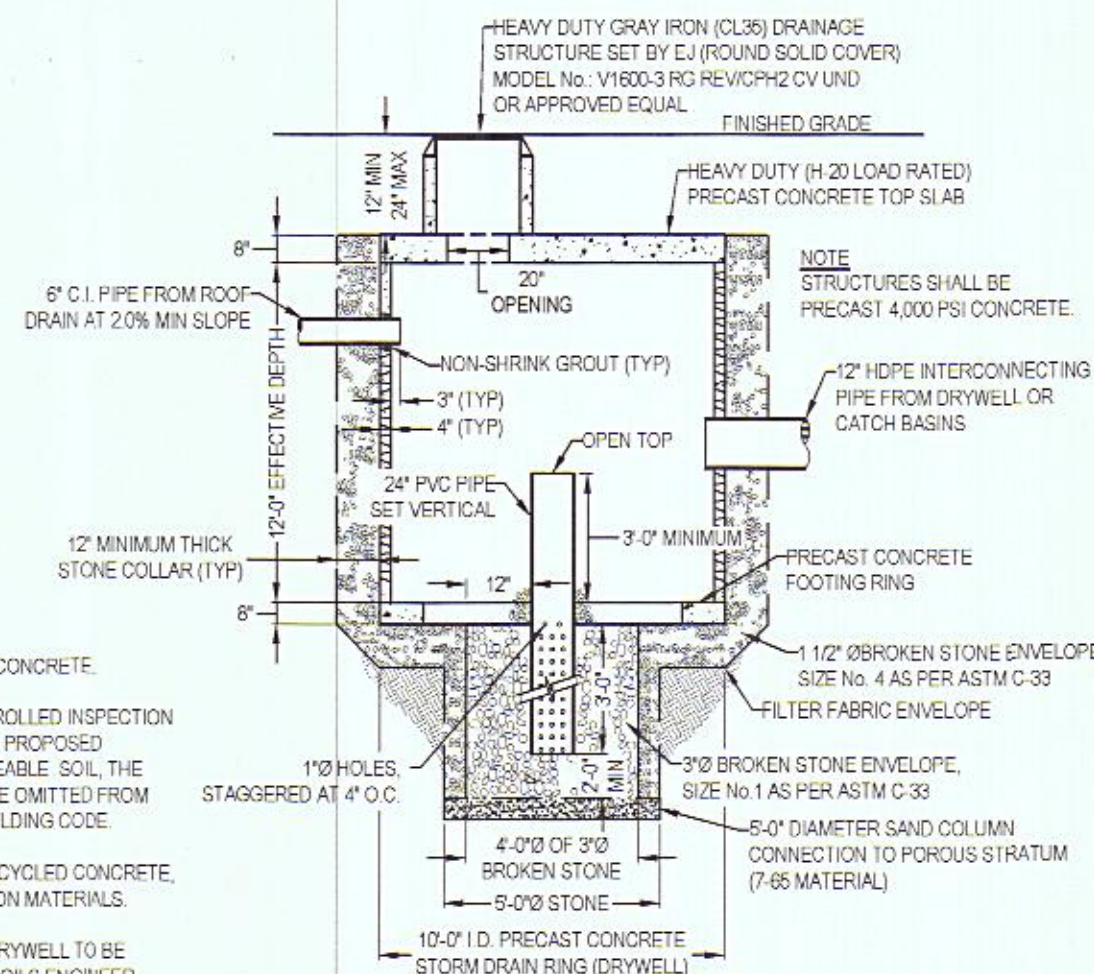
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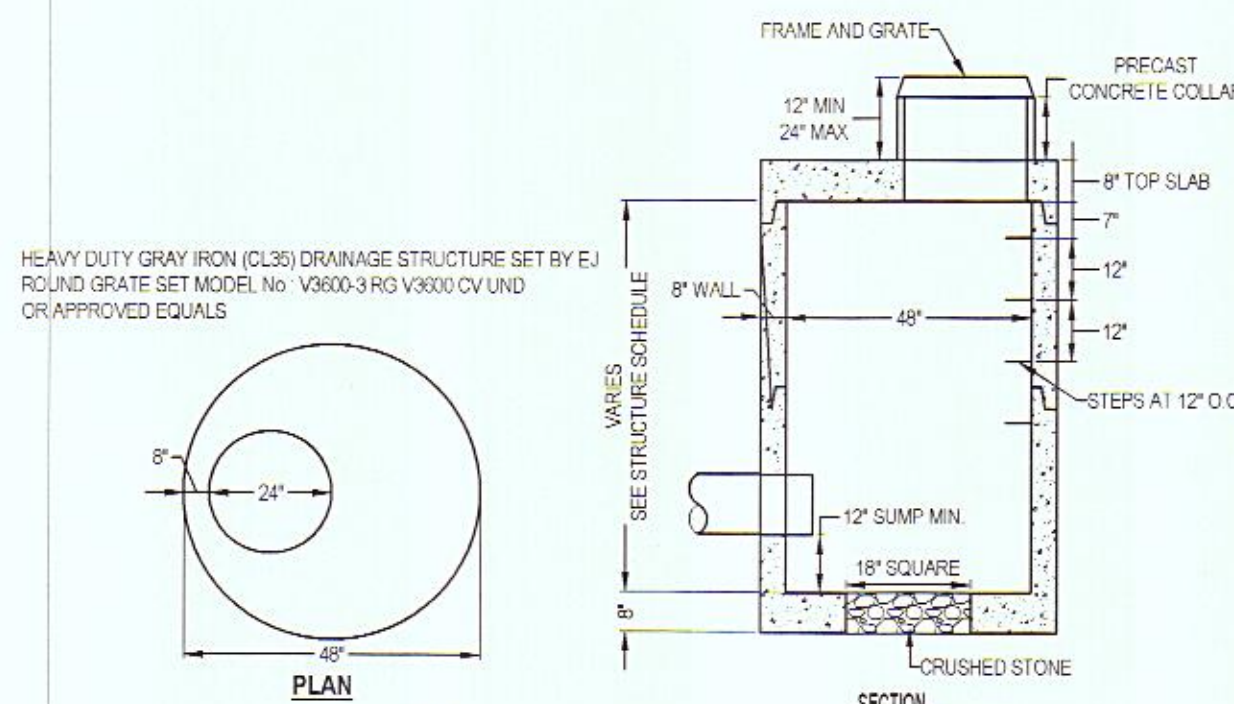
TYPICAL SECTION OF LANDSCAPE SWALE WITH CATCH BASIN
N.T.S.



ON-SITE CURB BREAK DETAIL
N.T.S.



STORMWATER DRYWELL DETAIL
N.T.S.



4\"/>

BORING PERMEABILITY TEST HOLE			
DATE STARTED: 9-21-17			
DATE COMPLETED: 9-21-17			
DEPTH (ft.)	SAMPLE NUMBER	SPOON BLOWS	MATERIAL DESCRIPTION
		0 TO 6 (in)	6 TO 12 (in)
31.75' ELEV.: EXISTING GROUND SURFACE			
5.0			
7.0			
			TAN FINE SAND TRACE & GRAVEL SP(3)

SOIL BORINGS (B-1 TO B-3) & PERMEABILITY TEST HOLE LOGS
PREPARED BY THOMAS D. RELLY P.E. DATED 10/04/2014

BORING B1			
DATE STARTED: 9-21-17			
DATE COMPLETED: 9-21-17			
DEPTH (ft.)	SAMPLE NUMBER	SPOON BLOWS	MATERIAL DESCRIPTION
		0 TO 6 (in)	6 TO 12 (in)
30.00' ELEV.: EXISTING GROUND SURFACE			
2.0	13	16	FILL DARK BROWN FINE SANDY SILT-TRACE & GRAVEL (3)
5.0			BROWN FINE SAND TRACE & GRAVEL SP(3)
7.0	6	15	TAN FINE SAND TRACE & GRAVEL SP(3)
10.0	6	12	
11.0	16	12	
15.0	3	4	BROWN FINE-MEDIUM SAND TRACE & GRAVEL SP(3)
20.0	9	5	BROWN FINE SAND TRACE & GRAVEL SP(3)
25.0	11	10	

END OF BORING

BORING B2			
DATE STARTED: 9-21-17			
DATE COMPLETED: 9-21-17			
DEPTH (ft.)	SAMPLE NUMBER	SPOON BLOWS	MATERIAL DESCRIPTION
		0 TO 6 (in)	6 TO 12 (in)
31.70' ELEV.: EXISTING GROUND SURFACE			
2.0	27	50	FILL GRAYISH FINE SANDY SILT-TRACE & GRAVEL, TRACE & GLASS (3)
5.0	4	5	TAN FINE SAND TRACE & GRAVEL SP(3)
10.0	4	4	
12.0	7	5	
15.0	7	7	BROWN FINE-MEDIUM SAND TRACE & GRAVEL SP(3)
20.0	7	8	BROWN FINE SAND TRACE & GRAVEL SP(3)
25.0	8	8	
	10	10	

END OF BORING

BORING B3			
DATE STARTED: 9-21-17			
DATE COMPLETED: 9-21-17			
DEPTH (ft.)	SAMPLE NUMBER	SPOON BLOWS	MATERIAL DESCRIPTION
		0 TO 6 (in)	6 TO 12 (in)
30.00' ELEV.: EXISTING GROUND SURFACE			
2.0	2	5	FILL BROWN FINE SILTY SAND WITH GRAVEL-TRACE & GRAVEL (3)
5.0			ORANGE/TAN FINE SAND TRACE & GRAVEL SP(3)
7.0	9	16	
	17	16	
10.0	5	8	ORANGE/BROWN FINE SAND TRACE & GRAVEL SP(3)
12.0	12	10	
15.0	3	4	BROWN FINE SAND TRACE & GRAVEL SP(3)
	4	3	
20.0	6	4	
	3	5	
25.0	6	8	
	8	8	

GENERAL NOTES

- ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS/MEANS FOR ANY CONSTRUCTION ACTIVITIES TOWARDS THE COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF ANY ACTIVITIES ON SITE AND SHALL NOTIFY THE OWNER AND ENGINEER OF RECORD IN WRITING IF A CONFLICT IS IDENTIFIED.
- ENGINEER OF RECORD NOT RESPONSIBLE FOR SITE SAFETY OR JOB SITE SUPERVISION.
- SEQUENCE AND COORDINATION OF CONSTRUCTION IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IN WRITING OF ANY DEVIATION FROM APPROVED PLANS.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY REPAIRING ANY DAMAGE TO ANY EXISTING IMPROVEMENTS WHICH MAY BE ATTRIBUTED TO CONSTRUCTION OPERATIONS OR EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO ANY CONSTRUCTION. THIS FACILITY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. A COPY OF THE APPROVED PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO BUILDINGS AND STRUCTURES TO REMAIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF FOUNDATIONS, WALLS, SIDEWALKS AND PAVEMENT TO REMAIN.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED PRIOR TO STARTING REMOVAL/CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO TAKE EROSION CONTROL MEASURES NECESSARY IN ACCORDANCE WITH NYS GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL, TO PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING INTO ADJACENT PROPERTIES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION AND DEPTH OF UTILITIES, PIPING, ETC. PRIOR TO THE START OF WORK. THE CONTRACTOR MUST CONTACT THE APPROPRIATE LOCAL "ONE CALL" SYSTEM TO ENSURE THAT ALL UTILITIES ARE PROPERLY AND COMPLETELY MARKED OUT IN THE FIELD PRIOR TO ANY WORK AT THE SITE. ANY DISCREPANCIES BETWEEN THE FIELD LOCATIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IN WRITING IMMEDIATELY. THE CONTRACTOR IS ADVISED THAT UTILITY INFORMATION SHOWN ON THE PLAN IS A COMPILATION OF FIELD LOCATIONS AND RECORD DRAWINGS AND MUST BE CONFIRMED ACCORDINGLY. THE CONTRACTOR IS ALSO ADVISED THAT SUCH UTILITIES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE DOB VIA PHONE OR ELECTRONICALLY AT LEAST 24 HOURS, BUT NO MORE THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF EARTHWORK. EXCAVATIONS 5 TO 10' IN DEPTH WITHIN 10 FEET OF AN ADJACENT BUILDING OR EXCAVATION OVER 10' ANYWHERE ON SITE REQUIRE THAT THE PERSONS CAUSING THE EXCAVATION PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJACENT BUILDING OR BUILDINGS NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION. THE WRITTEN NOTICE SHALL PROVIDE A DESCRIPTION OF THE WORK TO BE PERFORMED, THE TIMEFRAME AND SCHEDULE, AND CONTACT INFORMATION OF THE PERSON CAUSING THE EXCAVATION AND OF THE DEPARTMENT.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE/SANITARY PIPING AND STRUCTURES, FENCING, SIGNAGE, ETC. FOR REVIEW BY THE ENGINEER OF RECORD AND OWNER PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT WITH A STRAIGHT VERTICAL EDGE FREE FROM IRREGULARITIES WHEREVER NEW PAVEMENT JOINS EXISTING PAVEMENT. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND EXTENT OF THE REQUIRED SAWCUTTING IN ORDER TO PERFORM THE WORKSCOPE DEPICTED ON THE PLANS.
- IF SHORING AT A DEPTH GREATER THAN 5' IS REQUIRED TO ACCOMMODATE CONSTRUCTION ACTIVITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RETAIN A LICENSED PROFESSIONAL ENGINEER TO DESIGN THE REQUIRED SHEETING AND SHORING DETAILS. SHEETING SHALL BE IN CONFORMANCE WITH OSHA REQUIREMENTS.
- NYC PARKS & RECREATION TREE WORK PERMIT MUST BE OBTAINED PRIOR TO START OF CONSTRUCTION FOR WORK PERFORMED ON OR WITHIN 50' OF AN EXISTING TREE UNDER CITY JURISDICTION AND ALL WORK MUST BE PERFORMED IN COMPLIANCE WITH TREE PROTECTION PROTOCOL.

UTILITY NOTES

- THE CROSSING OF WATER AND SEWER LINES SHALL BE AS FOLLOWS:
 - SEWER LINES SHALL BE LAID BELOW THE WATER LINE WITH A SEPARATION OF AT LEAST EIGHTEEN INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE SEWER LINE; AND
 - SEWER LINE JOINTS SHALL BE AT LEAST 10 FEET FROM THE POINT OF CROSSING.
- WHEN LOCAL CONDITIONS PREVENT PLACEMENT OF THE WATER LINE ABOVE THE SEWER LINE, THE FOLLOWING ADDITIONAL CONDITIONS APPLY:
 - A VERTICAL SEPARATION OF AT LEAST EIGHTEEN INCHES SHALL BE PROVIDED BETWEEN THE BOTTOM OF THE SEWER LINE AND THE TOP OF THE WATER LINE; AND
 - WATER LINE JOINTS SHALL BE AT LEAST 10 FEET FROM THE POINT OF CROSSING; AND
 - SEWER LINES SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE IN ACCORDANCE WITH WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE-TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- CONTRACTOR TO FURNISH AND INSTALL ALL UNDERGROUND CONDUITS AND/OR PIPING FOR ALL NEW UTILITY SERVICES (GAS, WATER, ELECTRIC, TELEPHONE/CATV) IN ACCORDANCE WITH UTILITY COMPANY AND NYC DOB STANDARDS.
- ALL PROPOSED AND EXISTING UTILITY LOCATIONS, POINT OF ENTRY, AND SIZES ARE SCHEMATIC ONLY AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE ACTUAL LENGTHS, SIZES, AND LOCATIONS OF CABLES, PIPES, CONDUITS, VALVES, METERS, ETC. ARE SUBJECT TO CHANGE BASED ON UTILITY COMPANY REQUIREMENTS. CONTRACTOR MUST VERIFY THE REQUIREMENTS AND SCOPE OF RESPONSIBILITY OF EACH UTILITY COMPANY AND COORDINATE THE INSTALLATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.



SEAL & SIGNATURE
JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

NYCDOB #

DOB#
NYCEP ID #

421 573 924



ARCHITECTS

12-1 TECHNOLOGY DRIVE, SETAUKET, NY 11713
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www.wfcny.com

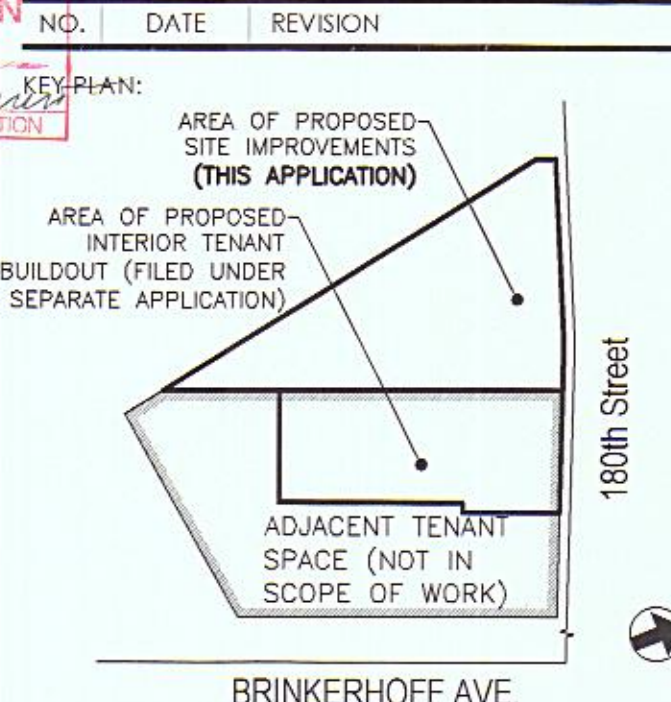
MEP ENGINEER:

Jacobsen & Horan Engineering, P.C.
990 South 2nd St. Ronkonkoma, NY 11779
O: (631) 580-6100 F: (631) 580-6101
www.jhepc.com

SITE ENGINEER:



NO.	DATE	SUBMISSION
1	11/29/2017	ISSUED TO NYC DEP



NORTH AMERICA
NESTLE WATER NORTH AMERICA
NEW DIRECT DISTRIBUTION FACILITY

109-10 180TH STREET
JAMAICA, NY 11433
BLOCK 10336, LOT 60

TITLE:

DRAINAGE DETAILS

DATE: 11/22/17
PROJECT NO: 17063
DRAWN BY:
CHECKED BY: JP
SCALE:
DRAWING NO:

C-003.00

G. SUPPORT DOCUMENTS:

- *1. Site Plan – 6 copies with hydraulic calculations

Attached
- *2. Survey – 3 copies with watercourse note

Attached
- *3. Tentative Lot Number Request Form – Attached

Not Applicable

X
- **4. Owner’s Consent for STP/PS Connection – Attached

Not Applicable

X
5. Department of Health Approval – Attached

Not Applicable

X
6. Department of Buildings Amendment – Attached

Not Applicable

X
- ***7. Condo/HOA Prospectus or Affidavit – Attached

Not Applicable

X
8. Industrial Waste Approval – Attached

Pending-no floor drains in building

Not Applicable

X
9. Associated Mapping/Demapping Action – Attached

Not Applicable

X
10. Builders Pavement Plan – Attached

Not Applicable

X
11. Boring Logs – Attached

X

Not Applicable
12. Other (Specify)

Dye test results, water bill & lease agreement, Certificate of Occupancy

Attached

X
- * Requires PE/RA Stamp and Original Signature (L.S. for Survey)
- ** Must Be Notarized and have Corporate Seal
- *** Must be Notarized

SEWER INFORMATION CERTIFIED BY DEP

1. There (is) (~~is not~~) a sanitary sewer fronting the property available for connections.

SIZE

12"

PUBLIC

PRIVATE

X

2. There (is) (~~is not~~) a storm sewer fronting the property available for connections.

SIZE

12"

X

3. There (~~is~~) (is not) a combined sewer fronting the property available for connections.

SIZE

4. Sanitary discharge tributary to:

City Treatment Plant -

NO

X

YES

Jamaica

Private Sewage Treatment Plant -

X

NO

YES

Private Pumping Station -

X

NO

YES

5. Distance to, and location of nearest allowable drainage plan sewer:

a) Sanitary Outlet

N/A

b) Storm Outlet

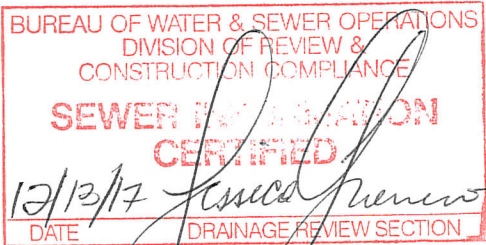
N/A

c) Combined Outlet

N/A

CERTIFICATION, RESTRICTIONS, SPECIAL CONDITIONS:

- Certified in accordance with phase 1 of master plan SCP 7595-MP dated 12/13/2017
- No sewer connection permits will be issued until DOB certifies the retention facility is satisfactorily built



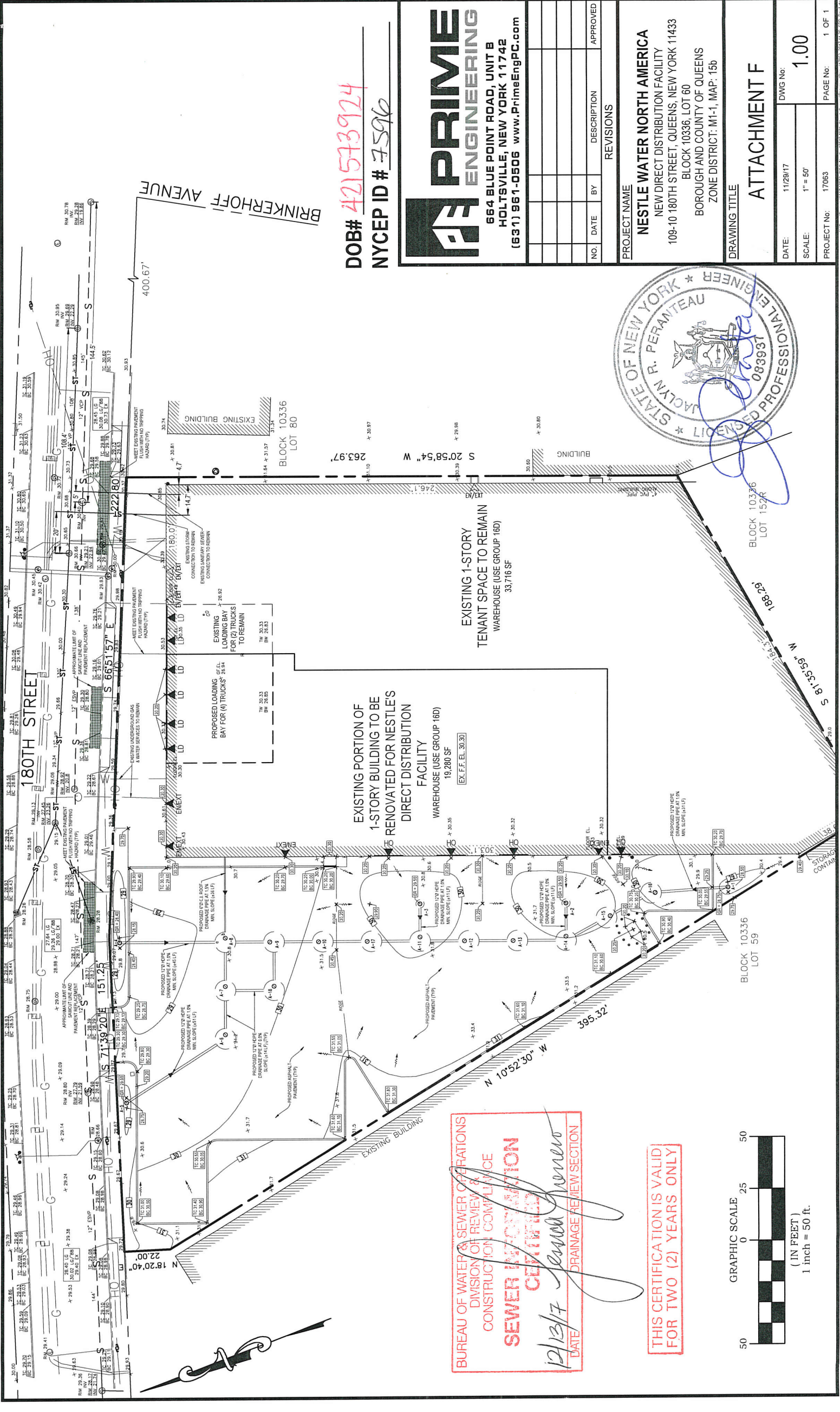
ADDITIONAL, INFORMATION, COMMENTS BY DEP OFFICE:

1. Topo Map No.

Watercourse shown:

☐ YES

☐ NO
2. Comments:



DOB# 421573924
NYCEP ID # 7596

PRIME

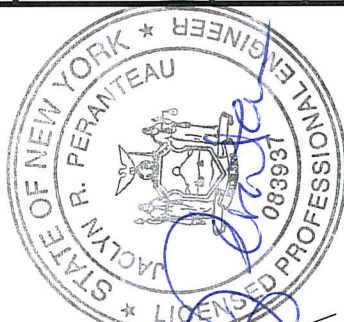
ENGINEERING

664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506 www.PrimeEngPC.com

NO.	DATE	BY	DESCRIPTION	APPROVED

PROJECT NAME
NESTLE WATER NORTH AMERICA
NEW DIRECT DISTRIBUTION FACILITY
109-10 180TH STREET, QUEENS, NEW YORK 11433
BLOCK 10336, LOT 60
BOROUGH AND COUNTY OF QUEENS
ZONE DISTRICT: M1-1, MAP: 15b

DRAWING TITLE ATTACHMENT F	
DATE: 11/29/17	DWG No: 1.00
SCALE: 1" = 50'	
PROJECT No: 17063	PAGE No: 1 OF 1



BUREAU OF WATER & SEWER OPERATIONS
DIVISION OF REVIEW & CONSTRUCTION COMPLIANCE
SEWER INFRASTRUCTURE CERTIFICATION

12/13/17
DATE

Severino
DRAINAGE REVIEW SECTION

THIS CERTIFICATION IS VALID
FOR TWO (2) YEARS ONLY

