

# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In replying refer to:**

Public Notice Number: NAN-2019-01249-EHA  
Issue Date: January 21, 2020  
Expiration Date: February 20, 2020

**To Whom It May Concern:**

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

**APPLICANT:** Consolidated Edison Company of New York  
Attn: John Rella  
4 Irving Place  
New York, New York 10003

**ACTIVITY:** Install a new 8-inch diameter gas main pipe via horizontal directional drilling from Pelham Bay Park to City Island

**WATERWAY:** Eastchester Bay, tributary of Long Island Sound

**LOCATION:** Borough of Bronx, Bronx County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,** otherwise, it will be presumed that there are no objections to the activity.

Comments submitted in response to this notice will be fully considered during the public interest

**CENAN-OP-RE**  
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review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein will not affect any Federally endangered or threatened species or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, would not impact habitat for various lifestages of EFH-designated species. The New York District has made the preliminary determination that there would be no adverse effects on EFH or managed species due to the proposed use of Horizontal Directional Drilling.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8523 and ask

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for Naomi Handell.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.



**For and In behalf of**

Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures

**WORK DESCRIPTION**

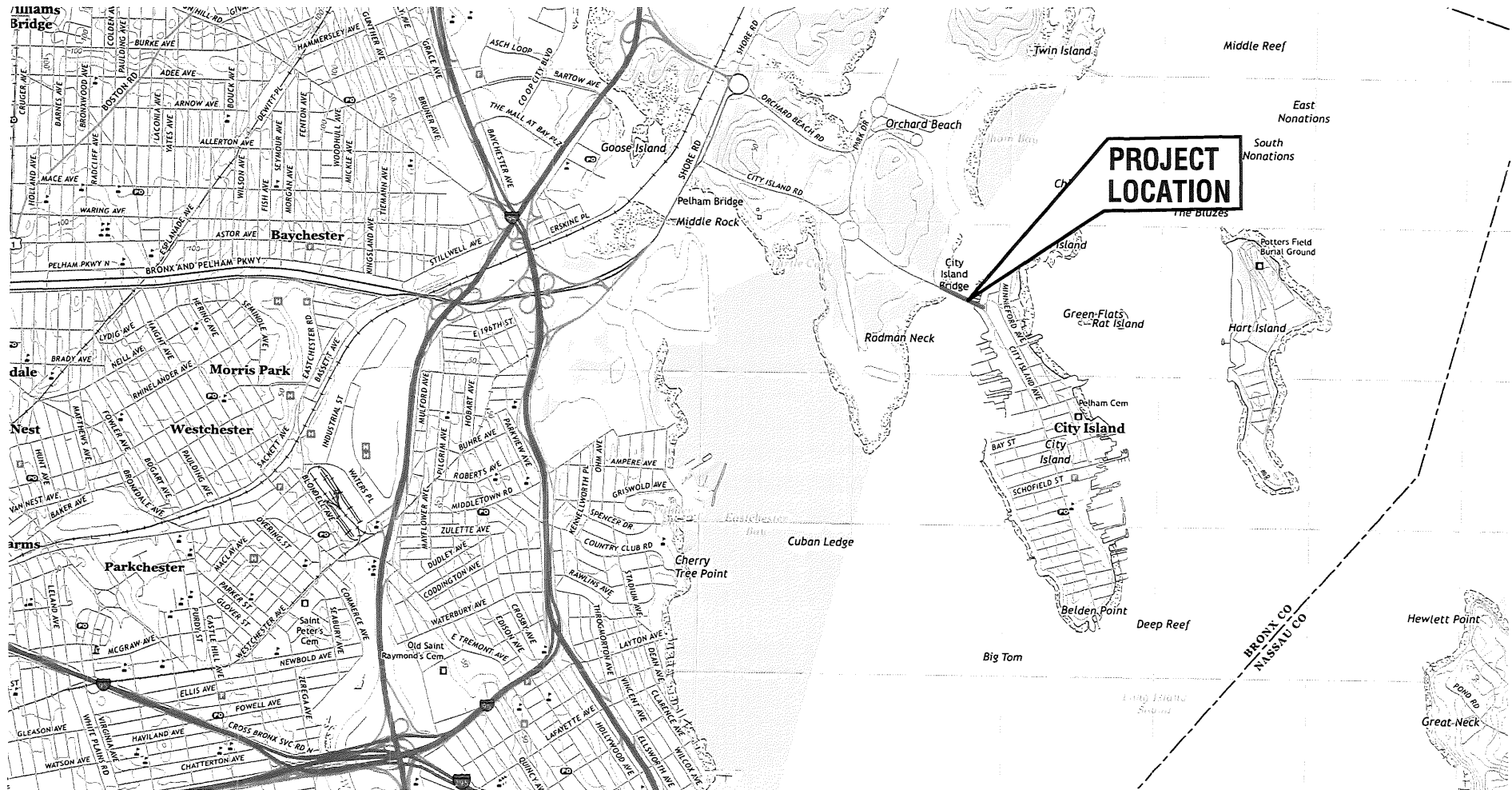
The applicant, Consolidated Edison Company of New York, Inc., has requested Department of the Army authorization for the installation of an 8-inch diameter gas transmission line from Pelham Bay Park to City Island via Horizontal Directional Drilling (HDD) under Eastchester Bay, Borough of Bronx, Bronx County, New York.

The work would involve:

Installation, via HDD of an 1,074 linear foot 8-inch diameter gas transmission line in a 16-inch diameter casing. The propose pipe would be installed approximately 30-feet below the bay bottom. The HDD entry and exit drill pits would be located in upland areas in Pelham Bay Park, just north of City Island Road and City Island, north of City Island Bridge and west of City Island Avenue. See Sheet 10 of 12.

Mitigation statement: The proposed work avoids and minimizes impacts to the aquatic environment by using the HDD installation method with upland entry and exit pits. The applicant has prepared a frack-out plan in case of an accidental release during the proposed work.

The stated purpose of this project is to increase gas supply and improve reliability by replacing an aging existing gas transmission main, which is to be abandoned in place.



## LEGEND

PROPOSED GAS MAIN INSTALLATION

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SERVICE LAYER CREDITS: USGS MAPPING  
PROJECT LOCATION: 40°51'23.2"N 73°47'35.6"W

LOCATION MAP  
EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

								BY: ARS (CHA)	Scale: 1"=30,000'	CAD FILE NAME:	
								CHKD: JEO (CHA)		34465 ACE PERMIT.DWG	
0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM	APP: S. CHIKOTA	SHEET NO.:				REV.
REV.	DESCRIPTION	DATE:	BY:	CHKD:	APP:	DATE: 10/28/19				SHEET 1 of 12	0

# CONSOLIDATED EDISON, INC.

## GAS DISTRIBUTION MAIN INSTALLATION PROJECT

### 8" HDPE HP CARRIER GAS MAIN (SDR 11) IN 16" HDPE CASING (SDR 9)

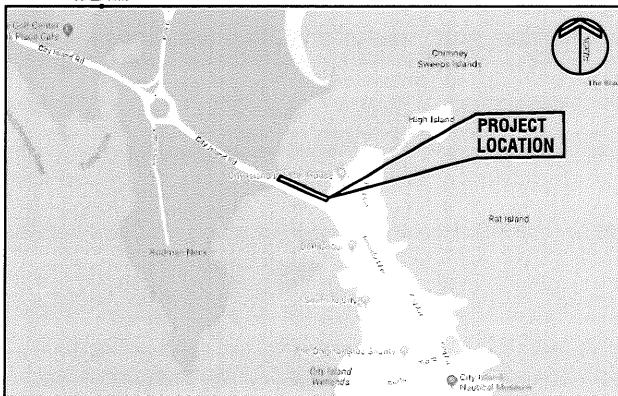
### RIVER CROSSING

### CITY ISLAND

### BRONX, NY

**LOCATION MAP:**

SCALE: N.T.S.

**INDEX OF DRAWING**

SHEET NO.	TITLE
1	LOCATION MAP
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10	HDD PROFILE PLAN
11	LINKS SEALS & CASING VENT DETAILS
12	MISCELLANEOUS DETAILS

**LIST OF STANDARD  
CON EDISON DRAWINGS**

SHEET NO.	TITLE
309495	TRENCH EXCAVATION FOR GAS MAINS & SERVICES UP TO 350 PSIG
309808	INSTALLATION OF 6", 8", 12", & 16" POLYETHYLENE GAS VALVES
313048	INSTALLATION OF GAS PIPELINE MARKER
502664	INSTALLATION OF ELECTRONIC MARKERS ON GAS MAINS & SERVICES
EO-4019-C	STREET VALVE BOX FRAME WITH COVER
EO-6799-C	PROTECTIVE COVERS FOR GAS MAIN INSTALLATIONS
EO-14837-B	INSTALLATION OF POLYETHYLENE GAS MAINS
EO-16954-B	SHEETING FOR TRENCHING AND EXCAVATIONS
EO-17109-C	VENTING OF METALLIC CASINGS
EO-17111	GAS VALVE TAG INSTALLATION
EO-17118	REGULATOR VENT INSTALLATION
EO-7494-D	GAS VALVE TAG DETAILS



III Winans Circle, PO Box 5269 • Albany, NY 12205-0269  
Main: (518) 453-4500 • www.chacompanies.com

CHA Project No. 34465

**ISSUED FOR PERMITTING**  
**NOVEMBER, 2019**



Dig Safely, New York

DIAL

811

(1-800-962-7962)

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TITLE SHEET  
EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM
REV.	DESCRIPTION	DATE	BY	CHKD	APP

BY: ARS (CHA)	Scale:	CAD FILE NAME:
CHKD: JEO (CHA)	AS NOTED	34465 ACE PERMIT.DWG
APP: S. CHIKOTA	SHEET NO.:	
	SHEET 2 of 12	REV. 0

## GENERAL NOTES:

1. THE WORK SHALL BE PERFORMED IN COMPLIANCE WITH NYSDOT, NYCDOT, AND NYC PARKS STANDARD SPECIFICATIONS CONSTRUCTION AND MATERIAL AND CON EDISON SPECIFICATIONS LATEST REVISION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES FOR GAS, SEWER AND ELECTRIC LOCATIONS. LOCATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND ARE NOT GUARANTEED AS TO EXACTNESS. THE CONTRACTOR IS TO CONTACT UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION AND DEPTH AT ALL EXCAVATION PITS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL USE THE UTILITY LOCATIONS SHOWN AS AN AID IN DETERMINING EXACT LOCATIONS AND IS SOLELY RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CONTACT ONE CALL SYSTEM AT (1-800-962-7962) AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE MARKED OUT BY THE RESPECTIVE UTILITY COMPANIES PRIOR TO THE START OF WORK.
4. THE CONTRACTOR HAS BEEN NOTIFIED THAT OTHER CONTRACTORS MAY BE WORKING IN THE AREA UNDER NYC INSTALLATION OF WATER MAINS PROJECT HED564. THE CONTRACTOR MAY NEED TO COORDINATE HIS OPERATIONS WITH OTHER CONTRACTORS ACCORDINGLY.
5. THE CONTRACTOR MUST PROVIDE A MEANS OF SAFE INGRESS AND EGRESS AT ALL TIMES TO THE PUBLIC. THIS SHALL INCLUDE RIGHT OF WAY AS WELL AS INDIVIDUAL RESIDENCES AND/OR BUSINESSES WITHIN THE PROJECT AREA.
6. THE CONTRACTOR IS REQUIRED TO ENSURE THE SAFE, ORDERLY, AND EXPEDITIOUS FLOW OF TRAFFIC AT ALL TIMES. SAID TRAFFIC FLOW IS TO BE MAINTAINED IN ACCORDANCE WITH RECOGNIZED TRAFFIC CONTROL STANDARDS CONTAINED IN THE CURRENT M.U.T.C.D. THROUGH THE USE OF FLAGMEN, POLICE TRAFFIC DIRECTORS, SIGNING, BARRICADES, CONES, FLASHING LIGHTS, BARRELS, ETC.
7. BEFORE BEGINNING WORK ON ANY STAGE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIFIED WARNING SIGNS, BARRICADES, TRAFFIC GUIDES, LIGHTS, FLARES, AND OTHER DEVICES NECESSARY, ACCORDING TO THE M.U.T.C.D. OR IN THE OPINION OF THE ENGINEER, TO PROTECT THE PUBLIC DURING THAT PHASE OF HIS OPERATIONS.
8. ALL NECESSARY REGULATORY AND WARNING SIGNS SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, AND STANDARD HIGHWAY SIGNS, 2000 AND SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. WHEN SUCH SIGNS ARE NO LONGER REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY AND CAREFULLY REMOVE AND STORE THEM ON THE PROJECT SITE AT LOCATIONS APPROVED BY THE ENGINEER UNTIL THEY ARE REUSED ON THE PROJECT OR REMOVED BY THE CONTRACTOR.
9. CON EDISON SHALL PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK IN FULL ACCORDANCE WITH REQUIREMENTS OF ALL REGULATIONS AND AUTHORITIES HAVING JURISDICTION AND (NYCDOT AND NYC PARKS).
10. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ALL CODES, REGULATIONS, ORDINANCES, RULES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIAL TO BE USED, OR THE ACTIONS OF THOSE EMPLOYED IN WORK OF THIS KIND. ALL WORK, LABOR OR MATERIAL NECESSARY TO COMPLY WITH THESE LAWS, CODES, ORDINANCES, RULES OR REGULATIONS SHALL BE PERFORMED AND FURNISHED BY THE CONTRACTOR.
11. EXISTING ASPHALT CONCRETE PAVEMENT SHALL BE CUT AND REMOVED IN SUCH A MANNER AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS. EDGES SHALL BE CLEAN AND VERTICAL, ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
12. ALL ADJACENT CONCRETE AND BUILDING SURFACES SHALL BE PROTECTED WHEN ASPHALT TACK COAT AND/OR PRIME COAT IS APPLIED.
13. ALL PRIVATE PROPERTY THAT MAY BE DISTURBED OR DAMAGED BY ANY CONSTRUCTION ACTIVITY SHALL BE RELOCATED, RESTORED, REPAIRED, AND/OR REPLACED BY THE CONTRACTOR AT NO COST TO CON EDISON.
14. ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR. UTILITY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AT NO ADDITIONAL COST TO CON EDISON.

15. ALL PAVEMENT MARKINGS AND SIGNS SHALL BE NEW AND IN CONFORMANCE WITH THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
16. MATCH PROPOSED STRIPPING WITH EXISTING LINES AND CENTER LINES.
17. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW AND APPROVAL BY THE ENGINEER.:
  - A. CUT SHEETS FOR END SEALS, EXCAVATION SUPPORT, AND HORIZONTAL DIRECTIONAL DRILLING PROCEDURES.
  - B. SHOP DRAWINGS FOR HDPE PIPE WORK.
  - C. CONCRETE MIX DESIGN AND TESTING, IF REQUIRED BY THE CITY OF NEW YORK.
18. THE WORK SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF LAW INCLUDING BUT NOT LIMITED TO THE NATURAL GAS PIPELINE SAFETY ACT (TITLE 49 USC CHAPTER 601) AND REGULATIONS PROMULGATED THEREAFTER AND STATE PUBLIC SERVICE COMMISSION REQUIREMENTS IN 16 NYCRR PART 255. THE WORK SHALL ALSO CONFORM TO 49 CFR PART 192.
19. GAS MAIN TO TO PRESSURE TESTED IN ACCORDANCE WITH CON EDISON SPECIFICATION G-8204 - PRESSURE TESTING REQUIREMENTS FOR GAS MAINS AND SERVICES.
20. PIPE LABELS SHALL CONFORM TO CON EDISON SPECIFICATION G-11854.

## FIELD CONDITIONS:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF REHABILITATION PROJECT, THE EXACT EXTENT OF REHABILITATION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. THESE CONTRACTOR DOCUMENTS HAVE BEEN PREPARED BASED ON A FIELD INSPECTION OF THE STRUCTURE AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACTOR DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR TO LOCATE AND MARK UTILITIES BEFORE START ON INSTALLATION.
3. PROJECT HED564 INVOLVING THE INSTALLATION OF NEW WATER MAIN AND ABANDONMENT OF EXISTING WATER MAIN IS OCCURRING AT THE SAME TIME AS THE PROPOSED GAS MAIN HDD INSTALLATION OUTLINED IN THESE PLANS. CONTRACTOR TO COORDINATE EFFORTS WITH APPROPRIATE AUTHORITIES AND PERSONNEL.
4. DRILLER'S LAYDOWN AREA ON SITE ISLAND SIDE (EXIT POINT) TO BE ENTIRELY WITHIN THE BOUNDS OF THE NYC PROPERTY. ENSURE THAT CONSTRUCTION OR LAYDOWN AREA DOES NOT ENCR OACH UPON PROPERTY BLOCK 5636, LOT 149.

## REQUIRED PERMIT & ACCESS AGREEMENTS:

NYC DEPARTMENT OF TRANSPORTATION  
(STREET AND CONSTRUCTION PERMIT)  
(UTILITY PERMIT)

NYC DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

NYC DEPARTMENT OF PARKS AND RECREATION  
(CONSTRUCTION PERMIT)  
IRENE PAPADOPOULOS, INTERAGENCY COORDINATOR  
OLMSTEAD CENTER  
FLUSHING MEADOWS - CORONA PARK  
FLUSHING, NEW YORK 11368

NYC DEPARTMENT OF FORESTRY  
TO BE SUBMITTED BY CONTRACTOR CERTIFIED ARBORIST  
USING NYC PARK ONLINE FORESTRY APPLICATION

NYC DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
TIDAL WETLANDS PERMIT:  
MR. KENNETH SCARLATTELLI  
47-20 21ST STREET  
LONG ISLAND CITY, NEW YORK 11101

US ARMY CORPS OF ENGINEERS NWP APPLICATION  
NWP APPLICATION  
DEPARTMENT OF THE ARMY  
NEW YORK DISTRICT, CORPS OF ENGINEERS  
JACOB K. JAVITS FEDERAL BUILDING  
26 FEDERAL PLAZA - ROOM 2109  
NEW YORK, NY 10278-0009  
PETER STEINOUR - EASTERN PERMITS SECTION

NYS DEPARTMENT OF STATE  
NYS DEPARTMENT OF STATE OFFICE OF PLANNING  
AND DEVELOPMENT  
SUITE 1010 ONE COMMERCE PLACE  
99 WASHINGTON AVENUE  
ALBANY, NY 12231-0001

NYS OFFICE OF GENERAL SERVICES  
BUREAU OF LAND MANAGEMENT  
26TH FLOOR, CORNING TOWER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242-0001

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GENERAL NOTES  
EASTCHESTER BAY - GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.


### EARTH WORK:

1. EARTHWORK SHALL BE IN ACCORDANCE WITH CON EDISON ENGINEERING SPECIFICATION CE-SS-3400-2200 "EXCAVATION AND BACKFILL" AND RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
2. OFFSITE BORROW SHALL BE IN ACCORDANCE WITH CON EDISON BACKFILL SPECIFICATION AND/OR APPROVED NYS DOT BACKFILL MATERIALS.
3. SUPPORT OF EXCAVATION - THE SIDES OF EXCAVATIONS 5 FEET OR GREATER IN DEPTH SHALL BE SUPPORTED IN ACCORDANCE WITH BC 3304.4. SUPPORT OF EXCAVATION DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR'S REGISTERED PROFESSIONAL ENGINEER AND SHALL BE SITE SPECIFIC. THEY SHALL CLEARLY ILLUSTRATE ALL RELATED PROTECTION AND SUPPORT OF THE EXCAVATION, INCLUDING BUT NOT LIMITED TO SLOPING, STEEPING, SHEETING, SHORING, BRACING, GUARDRAIL SYSTEMS, AND FENCES WITH ALL DIMENSIONS INDICATED.
4. STRUCTURAL CONTROLLED FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY BASED ON OPTIMUM MOISTURE CONTENT AS DETERMINED BY A MODIFIED PROCTOR TEST IN ACCORDANCE WITH ASTM D-1557 FOR EACH 2000 SQUARE FEET OR 100 LF TRENCH FOR EACH LIFT. LOCATION OF TESTS SHALL BE RANDOMLY SELECTED BY THE TESTING AGENCY.
5. DEWATERING OF THE SITE DURING CONSTRUCTION, INCLUDING THE SELECTION OF METHOD AND PREPARATION OF ASSOCIATED CALCULATIONS, SHALL BE IN ACCORDANCE WITH CON EDISON SPECIFICATIONS AND IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. TEMPORARY SHORING FOR EXCAVATION SHALL COMPLY WITH CON EDISON SPECIFICATION EO-16954-B.
7. CODE 753 MARKOUT SHALL BE PERFORMED FOR THE WORK AREA PRIOR TO THE START OF WORK.
8. A MINIMUM 5 FOOT DEEP TEST PIT SHALL BE HAND-DUG AT EACH LOCATION AND EXISTING UNDERGROUND UTILITIES EXPOSED PRIOR TO START OF INSTALLATION.
9. EXCAVATION SHALL BE DONE IN CONSIDERATION OF EXISTING CONDUITS, PIPES, DUCT BANKS, AND OTHER UNDERGROUND UTILITIES PASSING THROUGH THE WORK AREA AND SHALL NOT DISTURB ADJACENT BUILDINGS AND STREET.
10. FINAL ROADWAY GRADING SHALL MATCH CURRENT GRADING.

ASBESTOS CONTAINING MATERIAL:

1. THE CONTRACTOR SHALL BE AWARE THAT POSSIBLE ENVIRONMENTAL HAZARDS MAY REQUIRE TESTS AND THAT ALL UNKNOWN JOINT MATERIALS MUST BE TESTED PRIOR TO REMOVAL. THE COMPANY TESTS SHALL REQUIRE A REASONABLE AMOUNT OF TIME (7 BUSINESS DAYS) TO PERFORM. THE CONTRACTOR SHALL RESUME OPERATIONS ELSEWHERE UNTIL THESE TESTS ARE COMPLETED. THIS CHANGE OF WORK LOCATIONS/DELAYS SHALL NOT BE CONSIDERED FOR ADDITIONAL COMPENSATION.
2. DURING EXCAVATION, ANY EARTH MATERIAL THAT IS SUSPECTED OF CONTAINING ASBESTOS (VISUAL INDICATION) OR ANY DISTURBANCE OF A SUBSURFACE STRUCTURE THAT IS SUSPECTED OF CONTAINING ASBESTOS SHALL RESULT IN THE IMMEDIATE STOPPAGE OF ALL ASSOCIATED WORK, ONLY CON EDISON PERSONNEL OR A CERTIFIED CONTRACTOR, QUALIFIED IN REMOVAL/ABATEMENT, SHALL PERFORM ABATEMENT OF THE WORK AREA.

### SEQUENCE OF WORK:

1. SCOPE OF WORK BETWEEN PROPOSED VALVE NUMBER 92178 (ADJACENT TO CITY ISLAND ROAD) AND VALVE NUMBER 92177 (ON CITY ISLAND AVENUE).
2. CONTRACTOR TO INSTALL 8" HDPE HP GAS MAIN IN 16" HDPE CASING PER DWG. 603981 AND 603982.
3. CON EDISON TO TIE IN INSTALLED 8" HDPE HP GAS MAIN TO ADJACENT INSTALLATION ON CITY ISLAND ROAD AND CITY ISLAND AVENUE PER TIE-IN DRAWING XG19007599.
4. ABANDONMENT OF EXISTING SUBMARINE GAS MAIN CROSSING PER CON EDISON LAYOUT XG19001964.

RECONSTRUCTION WORK NOTES:

3. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO CON EDISON OR NYSDOT.
2. DURING DEMOLITION AND CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE, CONCRETE, STEEL, AND DEBRIS OR ANY OTHER MATERIAL ONTO ANY AREA BENEATH OR ADJACENT TO THE BRIDGE AND ANY AREA ON THE BRIDGE. WHERE IT MIGHT INTERFERE WITH TRAFFIC WHICH REMAINS IN OPEN AT TIME. ALL MATERIALS REMOVED, DISMANTLED, AND DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR BY END OF WORKING DAY AND NOT STORED AT THE WORK STORAGE AREA. THE COST OF DISPOSAL AS WELL AS PROCURING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE LUMP SUM BID. PRICE.
3. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING, AND DISPOSING OF ALL FENCES, NETS, AND SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE LUMP SUM BID PRICE. IF THE ENGINEER DETERMINED THAT ADEQUATE FENCES, NETS, AND SCREENS OR OTHER PROTECTIVE DEVICES ARE NOT BEING EMPLOYED BY THE CONTRACTOR FOR THE PROPOSED WORK. THE WORK SHALL BE SUSPENDED WITHOUT PAYMENT FOR THE DELAY UNTIL SUCH PROTECTIVE DEVICES ARE FURNISHED AND INSTALLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
4. ALL ITEMS IN THE CONTRACT THAT REQUIRES MATERIALS TO BE REMOVED SHALL INCLUDE DISPOSAL BY THE CONTRACTOR. THE COST RELATED TO SUPPLY A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE LUMP SUM BID PRICE. THESE DISPOSAL AREA SHALL NOT BE ON CITY PROPERTY. PERMISSION TO DISPOSE OF MATERIALS AT DISPOSAL SITE SHALL BE OBTAINED IN WRITING FROM THE OWNERS AND A COPY OF WHICH SHALL BE GIVEN TO THE ENGINEER. BEFORE THE CONTRACTOR STARTS REMOVAL OPERATION.
5. THE CONTRACTOR SHALL TAKE STEPS TO REMOVE DEBRIS, MATERIALS, TOOLS, ETC. AT THE END OF EACH WORKING DAY WHEN LEAVING THE WORK AREA ON A DAILY BASIS. IF THE ENGINEER DETERMINED THAT DEBRIS AND MATERIALS ARE NOT REMOVED. THE WORK SHALL BE SUSPENDED UNTIL IT IS COMPLIED.3
6. THE CONTRACTOR SHALL RESTORE ANY REMOVED VEGETATION IN LIKE AND KIND BASED UPON NEW YORK CITY PARKS DEPARTMENT DIRECTION AND/OR CON EDISON INPUT. CON EDISON TO FINANCE TREE RESTITUTION.



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0	ISSUED FOR PERMITTING			11/04/19	GMR ARS	AP
<b>REV.</b>	<b>DESCRIPTION</b>			<b>DATE:</b>	<b>BY:</b> GMR	<b>CHECK:</b> AP

GENERAL NOTES  
EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

BY: ARS (CHA)		Scale:	CAD FILE NAME:
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M	APP: S. CHIKOTA	SHEET NO.:	REV.
PP	DATE: 10/28/19	SHEET 4 of 12	0



## CONCRETE FOR SITE RESTORATION:

- CONCRETE SHALL BE USED TO RESTORE SIDEWALKS AND CURBING AS ON DRAWING 604975.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3500 PSI AT 28 DAYS.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF +) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" FOR WALLS AND SLABS. CONFORMING TO ASTM C33.
- WHEN BONDING NEW CONCRETE TO EXISTING CONCRETE ROUGHEN EXISTING CONCRETE SURFACES TO 1/8" (MIN.) AMPLITUDE BY MECHANICAL MEANS. CLEAN THE SURFACE FROM ALL FOREIGN MATERIALS AND DAMPEN THE SURFACE TO A SATURATED DRY SURFACE PRIME THE AREA WITH BONDING AGENT (SIKA ARMATEX 110 EPOCEM" MANUFACTURED BY "SIKA" OR APPROVED EQUAL. BRUSH THE BONDING AGENT WELL INTO THE CONCRETE SURFACE. PLACE NEW CONCRETE ON THE PRIMED SURFACE WITHIN SIX HOURS OF PRIMING.
- HILTI HIT-HY 200 ADHESIVE OR APPROVED EQUAL SHALL BE USED WHERE DOWELS ARE TO BE INSTALLED INTO EXISTING CONCRETE.
- THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL TO MATCH EXISTING ELEVATIONS.
- EARLY DRYING OUT OF CONCRETE. ESPECIALLY DURING FIRST 24 HOURS. SHALL BE CAREFULLY GUARDED AGAINST ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED. EXERCISE CARE NOT TO DAMAGE COATING.
- COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-305R.
- THROUGHOUT CONSTRUCTION. THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING. CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, AND EXCESSIVE HEAT AND FREEZING TEMPERATURE.

## HORIZONTAL DIRECTIONAL DRILL:

- CONCEPTUAL HDD ALIGNMENT SHOWN FOR INFORMATION PURPOSED. CONTRACTOR TO MAKE THEIR OWN EVALUATION BASED UPON CONTRACTORS TOOLS AND EQUIPMENT AND THE PIPE MATERIALS PROPOSED FOR USE. OWNER TO BE NOTIFIED IMMEDIATELY OF ANY PLANNED DEVIATION FROM THE CONCEPTUAL ALIGNMENT. AREA TO BE LIMITED BY REAL ESTATE AGREEMENTS.
- CONTRACTOR TO REVIEW AVAILABLE SUBSURFACE INFORMATION PROVIDED AND ARE RESPONSIBLE FOR PERFORMING ADDITIONAL INVESTIGATIONS, TESTING AND EVALUATION REQUIRED TO COMPLETE THE INSTALLATION. ANY ADDITIONAL INVESTIGATIONS, TESTING AND EVALUATIONS SHALL BE INCLUDED IN THE BID PRICE, IF REQUIRED.
- CONTRACTOR TO PROVIDE AS-BUILT PROFILE AT COMPLETION OF PROJECT TO CONFIRM PERMIT CONDITIONS AND FOR DOCUMENTATION.

## LEGEND:

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
5' OR 10' CONTOUR LINE			SANITARY SEWER	(TYPE) SANITARY SEWER S		TELEPHONE MANHOLE		
1' OR 2' CONTOUR LINE			FORCE MAIN	(TYPE) FORCE MAIN		HYDRANT		
SPOT ELEVATION	120.5 OR x120.5	120.5 OR x120.5	WATER LINE	(TYPE) WATER LINE		BORING LOCATION		
ROW / PROPERTY LINE			GAS LINE	(TYPE) GAS LINE		GAS DRIP POT		
SILT FENCE			UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC E		SANITARY SEWER MANHOLE		
EDGE OF PAVEMENT			UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE T		ELECTRIC BOX		
CURB			OVERHEAD TELEPHONE	OVERHEAD WIRE		ELECTRIC MANHOLE		
EDGE OF GRAVEL / DIRT ROAD			OVERHEAD ELECTRIC	OVERHEAD WIRE		VALVE		
EDGE OF WOODS			ROAD BOUNDARY			POWER POLE / UTILITY POLE		
BUILDING			FIBER OPTIC LINE			LIGHT POLE, LAMP POST		
STORM SEWER	(TYPE) STORM SEWER D		CATCH BASIN			GAS PIPELINE MARKER		

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GENERAL NOTES AND LEGEND  
EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM	BY: ARS (CHA) CHKD: JEO (CHA) APP: S. CHIKOTA	Scale: AS NOTED	CAD FILE NAME: 34465 ACE PERMIT.DWG	REV.
REV.	DESCRIPTION	DATE	BY	CHKD	APP	DATE: 10/28/19	SHEET NO.: SHEET 5 of 12		0

ABBREVIATIONS:

ABUT.	ABUTMENT	MIN.	MINIMUM
ADA.	AMERICA DISABILITY ACT	MISC.	MISCELLANEOUS
APPROX.	APPROXIMATE	M.L.W.	MEAN LOW WATER
ASR.	ALKALI SILICA REACTIVITY	N.T.S.	NOT TO SCALE
C.J.	CONSTRUCTION JOINT	NO.	NUMBER
CL	CENTER LINE	NYCDOT	NEW YORK CITY DEPARTMENT OF TRANSPORTATION
CL	CAST IRON PIPE	NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
CO.	COUNTY	O.C.	ON CENTER
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CMP.	CORRUGATED METAL PIPE	PAV'T	PAVEMENT
CPP	CORRUGATED PLASTIC PIPE	PL	PROPERTY LINE
CS	COATED STEEL	PROP.	PROPOSED
C TO C	CENTER TO CENTER	REC.	RECORD
DIP	DUCTILE IRON PIPE	REIF.	REINFORCED
DWG.	DRAWING	RET.	RETAINING
E.F.	EACH FACE	R.O.W.	RIGHT OF WAY
ELEC.	ELECTRIC	RPL	RECYCLED PLASTIC LUMBER
EL	ELEVATION	SDR	STANDARD DIMENSION RATION
EXIST.	EXISTING	SMLS	SEAMLESS
FT.	FEET	SQ. FT.	SQUARE FEET
F.H.	FIRE HYDRANT	SS	STAINLESS STEEL
GR	GRADE	STA.	STATION
HDD	HORIZONTAL DIRECTIONAL DRILL	ST	STEEL
HDPE	HIGH DENSITY POLYETHYLENE	TBE	THREADED BOTH ENDS
H.P.	HIGH PRESSURE	THD	THREADED
I.D.	INSIDE DIAMETER	TYP.	TYPICAL
INV.	INVERT	U.O.N..	UNLESS OTHERWISE NOTED
L	LENGTH	V.C.	VERTICAL CURVE
LF	LINEAR FOOT	VE	VENT LINE PROTECTOR
MH	MANHOLE	WLP	WELDED END
MAX	MAXIMUM	WM	WATER MAIN
M.H.W.	MEAN HIGH WATER	W	WIDTH

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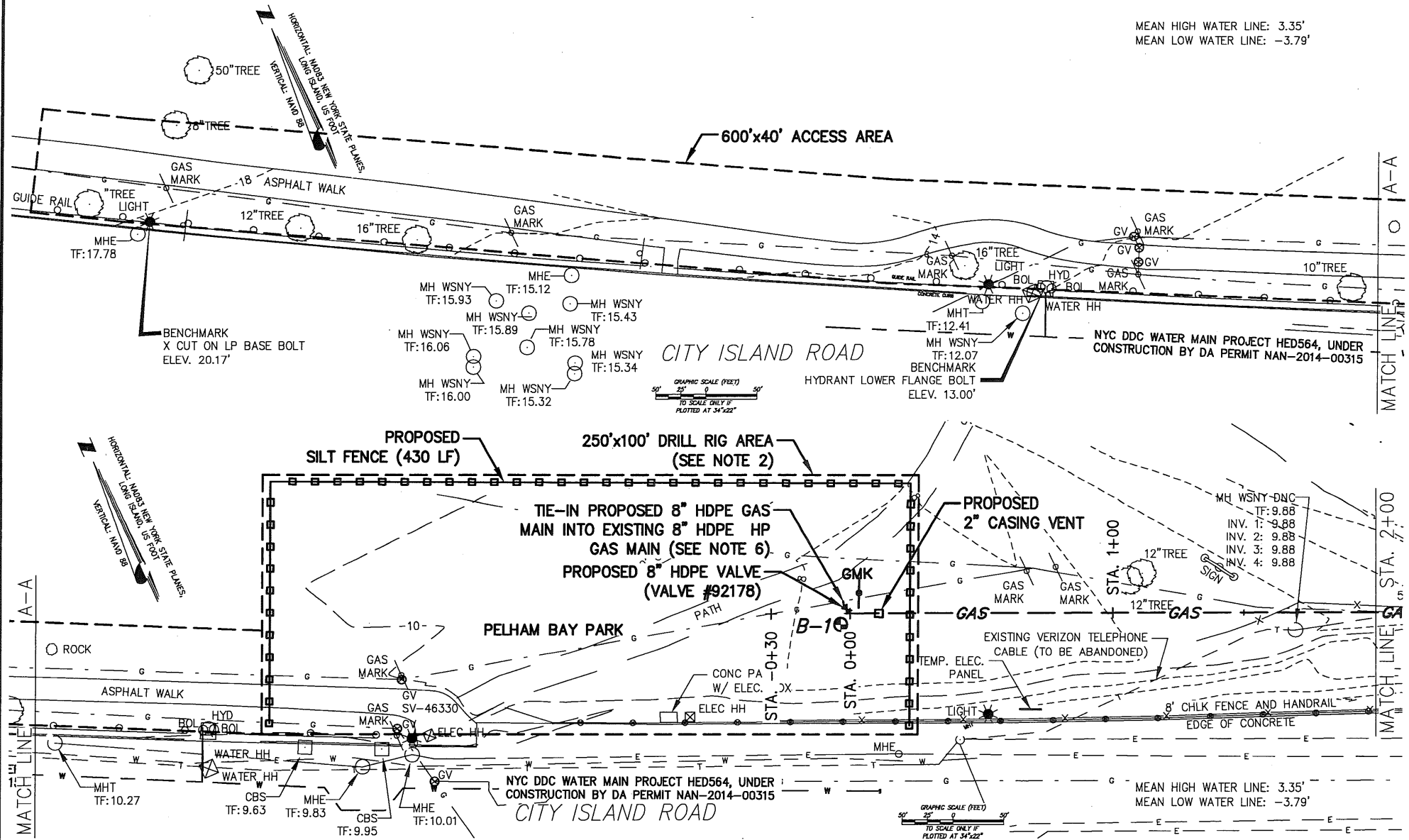


## ABBREVIATIONS

EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

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MEAN HIGH WATER LINE: 3.35'  
MEAN LOW WATER LINE: -3.79'



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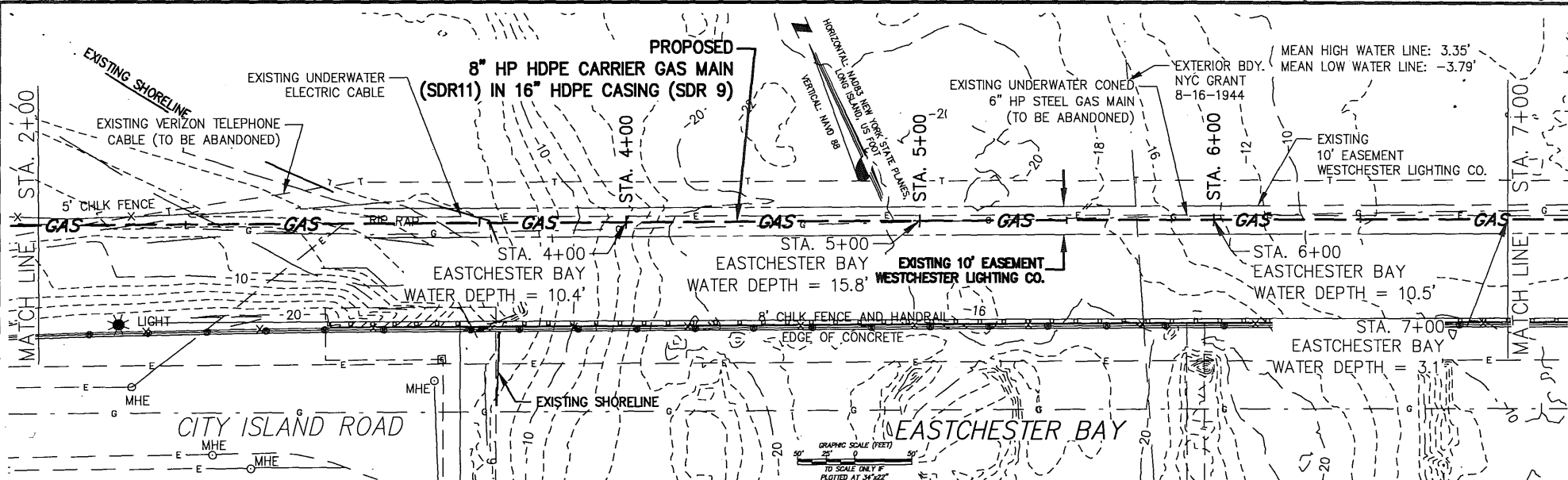
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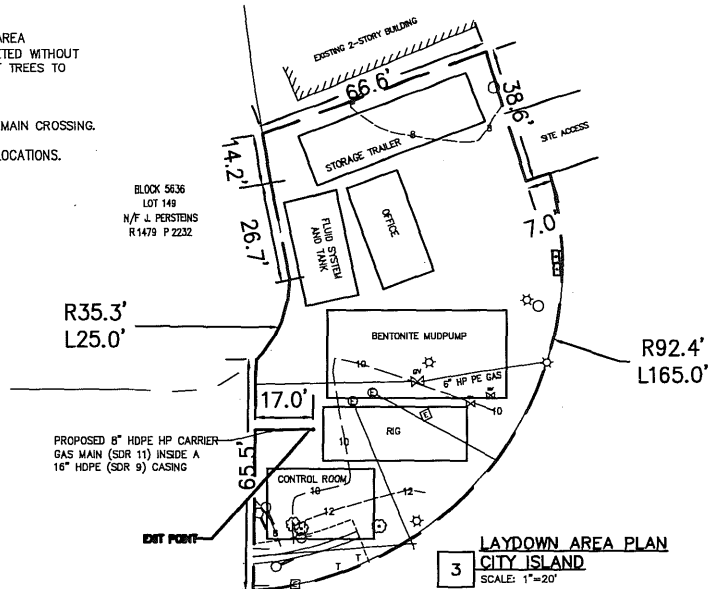
PROPOSED LAYOUT PLAN  
EASTCHESTER BAY - GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

REV.	DESCRIPTION	DATE	BY	CHKD	APP	DATE
1	REVISED DESCRIPTION OF NYC WATER MAIN PROJ. HED564	01/05/20	GMR	ARS	AM	
0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM	

BY: ARS (CHA)	Scale: AS NOTED	CAD FILE NAME: 34465 ACE PERMIT.DWG
CHKD: JEO (CHA)		
APP: S. CHIKOTA	SHEET NO.:	
DATE: 10/28/19	SHEET 7 of 12	REV. 1



- NOTES:
- 600 FEET OF BICYCLE PATH ON BRONX SIDE TO BE USED TO ACCESS 250' X 100' DRILL RIG AREA
  - CURRENT 250' X 100' DRILL RIG AREA IS RESERVED TO ENSURE THAT WORK IS TO BE COMPLETED WITHOUT CONSTRAINTS. IN FIELD, DRILL RIG AREA FOOTPRINT TO BE MINIMIZED TO LIMIT THE NUMBER OF TREES TO BE CLEARED AND AREA TO BE IMPACTED.
  - UTILITIES TO BE LOCATED AND MARKED BEFORE START OF WORK.
  - REPAIR/RESTORATION REQUIRED TO BICYCLE PATH AS NEEDED.
  - REFER TO CON EDISON LAYOUT XG19001964 FOR ABANDONMENT OF EXISTING SUBMARINE GAS MAIN CROSSING.
  - REFER TO CON EDISON LAYOUT XG19007599 FOR TIE-IN DETAILS.
  - ELECTRONIC MARKER BALLS TO BE INSTALLED BETWEEN HDD ENTRY/EXIT POINTS AND TIE-IN LOCATIONS.
  - INSTALL GAS PIPELINE MARKERS NEAR HDD ENTRY/EXIT POINTS PER STANDARD DWG 313048.



	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	Natural Gas	Carrier Pipe
MAX. ALLOWABLE OPERATING PRESSURE	99 PSIG	N/A
NOMINAL SIZE OF PIPE	8-Inches	16-Inches
OUTSIDE DIAMETER	8.625-Inches	16-Inches
INSIDE DIAMETER	6.963-Inches	12.231-Inches
WALL THICKNESS	SDR 11	SDR 9
WEIGHT PER FOOT	8.43 lb/ft	34.60 lb/ft
MATERIAL	HDPE	HDPE
PROCESS OF MANUFACTURE	THERMOPLASTIC	THERMOPLASTIC
SPECIFICATION	N/A	N/A
GRADE OR CLASS	PE 4710	PE 4710
TEST PRESSURE	150 PSIG	N/A
TYPE OF JOINT	HEAT FUSION	HEAT FUSION
TYPE OF COATING	N/A	N/A
DETAILS OF CATHODIC PROTECTION	N/A	N/A
DETAILS OF SEALS OR PROTECTION AT END OF CASING	N/A	STANDARD PULL-ON
METHOD OF INSTALLATION	CASING	HDD
LENGTH OF INSTALLATION	1155 FT	1078 FT
CHARACTER OF SUBSURFACE MATERIAL	REFER TO 603984	REFER TO 603984
APPROXIMATE GROUND WATER LEVEL	REFER TO 603984	REFER TO 603984
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS	REFER TO 603984	REFER TO 603984

4 PIPE DATA

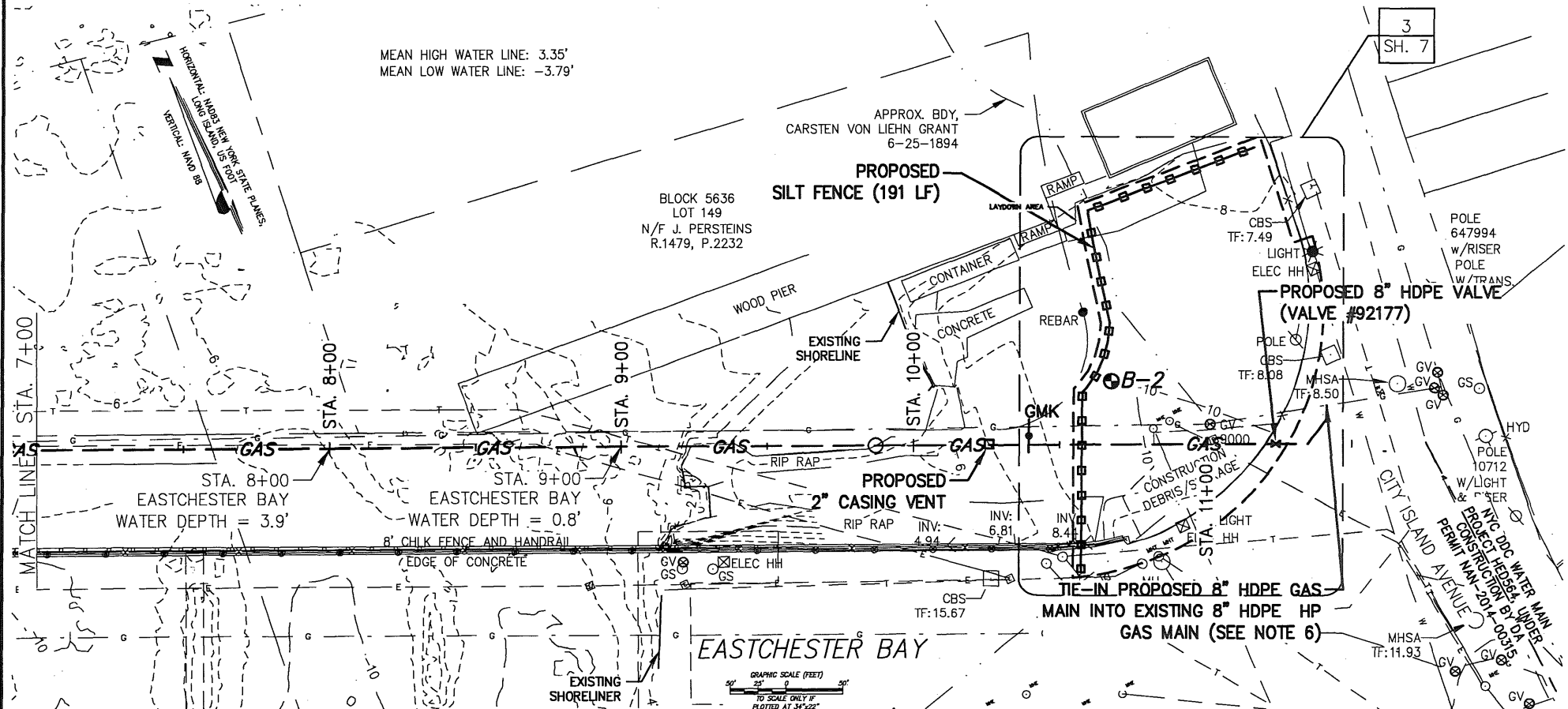
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MEAN HIGH WATER LEVEL (3.35')		MEAN LOW WATER LEVEL (-3.79')	
1	REVISED DESCRIPTION OF NYC WATER MAIN PROJ. HED564	01/05/20	GMR ARS AM
0	ISSUED FOR PERMITTING	11/04/19	GMR ARS AM
REV.	DESCRIPTION	DATE	BY: CHKD: APP: DATE: 10/28/19

PROPOSED LAYOUT PLAN AND DETAIL  
EASTCHESTER BAY - GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

BY: ARS (CHA)	Scale:	CAD FILE NAME:
CHKD: JEO (CHA)	AS NOTED	34465 ACE PERMIT.DWG
APP: S. CHIKOTA	SHEET NO.:	
DATE: 10/28/19		SHEET 8 of 12
		REV. 1



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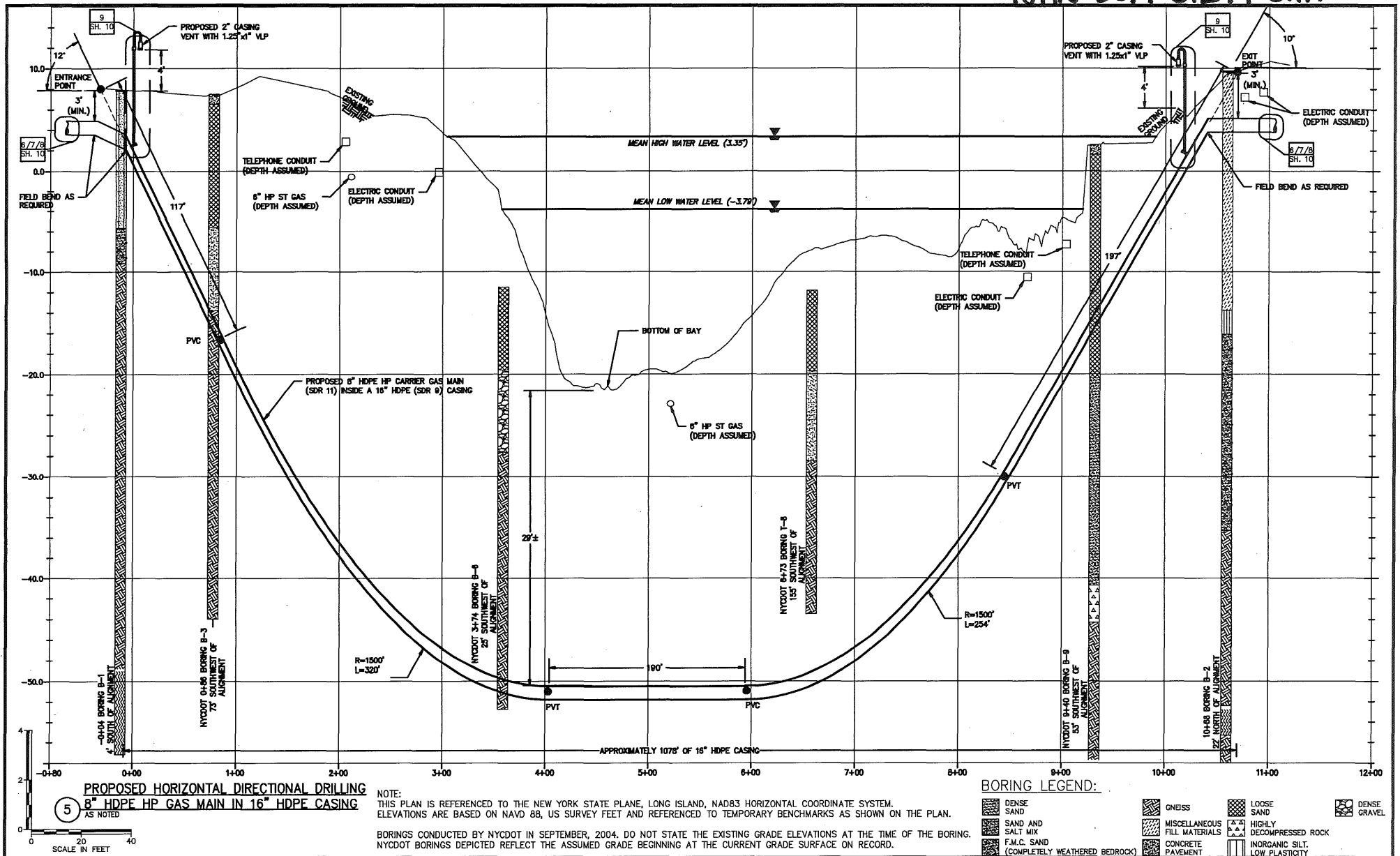
MEAN HIGH WATER LEVEL (3.35')  
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REV.	DESCRIPTION	DATE	BY	CHKD	APP
1	REVISED DESCRIPTION OF NYC WATER MAIN PROJ. HED564	01/05/20	GMR	ARS	AM
0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM

PROPOSED LAYOUT PLAN  
EASTCHESTER BAY - GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

BY: ARS (CHA)	Scale: AS NOTED	CAD FILE NAME: 34465 ACE PERMIT.DWG
CHKD: JEO (CHA)	SHEET NO.:	1
APP: S. CHIKOTA	DATE: 10/28/19	

SHEET 9 of 12



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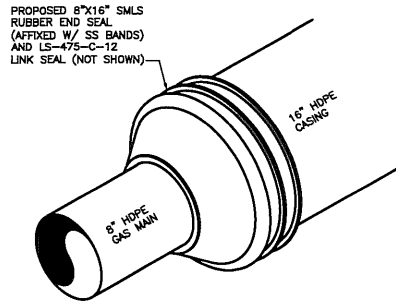


HDD PROFILE VIEW  
 EASTCHESTER BAY – GAS  
 DISTRIBUTION MAIN INSTALLATION PROJECT  
 CITY ISLAND, BRONX COUNTY, NY.

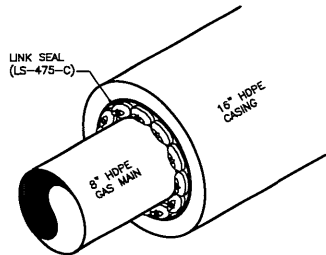
1	REVISED DESCRIPTION OF NYC WATER MAIN PROJ. HED564	01/05/20	GMR	ARS	AM	BY: ARS (CHA)	Scale: AS NOTED	CAD FILE NAME: 34465 ACE PERMIT.DWG	REV.
0	ISSUED FOR PERMITTING	11/04/19	GMR	ARS	AM	CHKD: JEO (CHA)	SHEET NO.:		
APP: S. CHIKOTA						DATE: 10/28/19			
REV.	DESCRIPTION	DATE:	BY:	CHKD:	APP:	DATE:			

SHEET 10 of 12

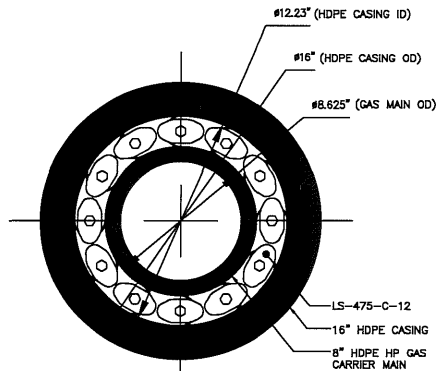
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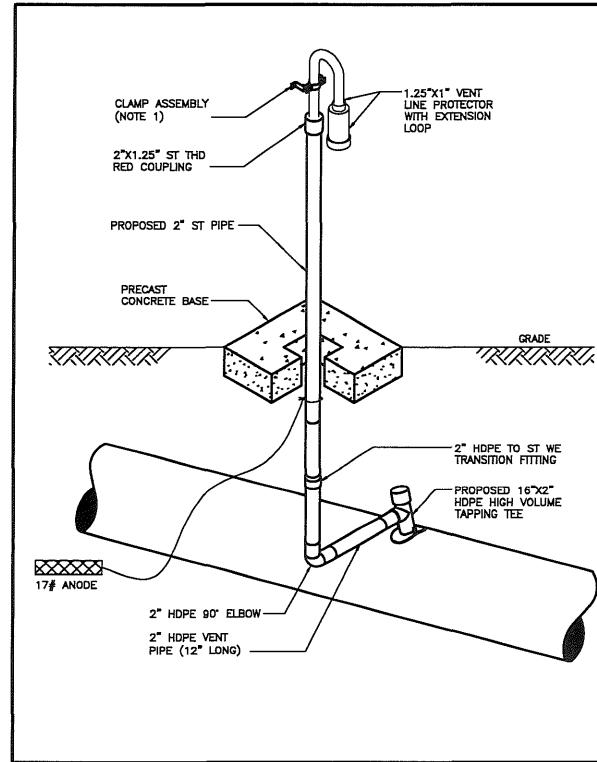
**6.1 CASING END SEAL DETAIL**  
NTS



**7.1 LINK SEAL DETAIL**  
NTS  
\*RUBBER END SEAL NOT SHOWN



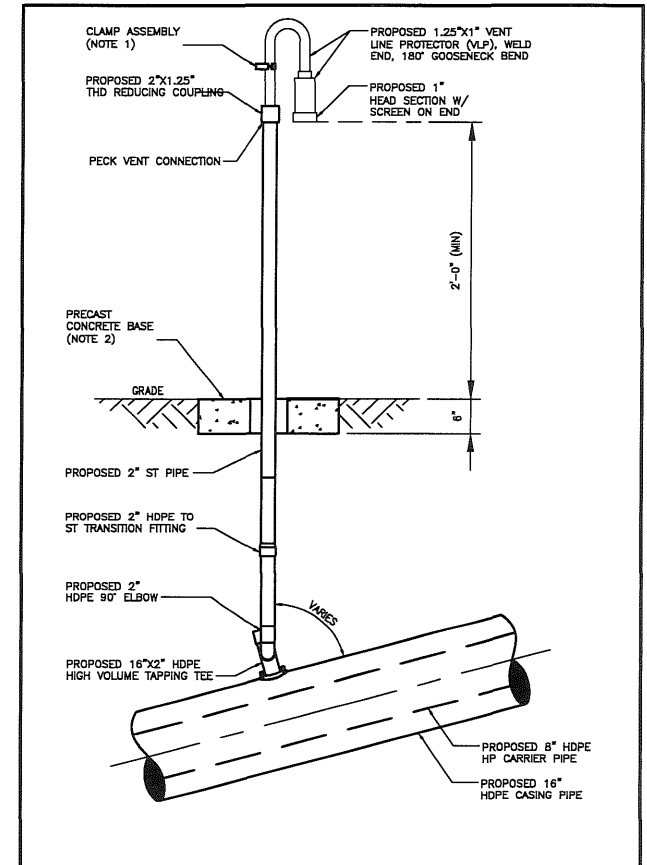
**8.1 LINK SEAL DETAIL**  
NTS  
\*RUBBER END SEAL NOT SHOWN



**9A TYPICAL ISOMETRIC VENT DETAIL**  
SCALE: 1"=1'-0"  
\*BOLLARD NOT SHOWN

**NOTES:**

- 1) EACH VENT LOCATION SHALL HAVE A BOLLARD INSTALLED INSIDE THE CONCRETE BASE TO SUPPORT AND PROTECT THE VERTICAL 2" VENT PIPE. PIPE TO BE SECURED TO BOLLARD WITH PIPE CLAMP BRACKET ASSEMBLY.
- 2) CONCRETE TO BE SIZED TO FIT BOLLARD.
- 3) ON CITY ISLAND SIDE, INSTALL THE BOLLARD NEAR THE BRIDGE ABUTMENT WALL FOR PROTECTION AND SAFETY.



**9B TYPICAL STREET GRADE ELEVATION VENT DETAIL**  
SCALE: 1"=1'-0"  
\*BOLLARD NOT SHOWN

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**CHA**

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**conEdison**

LINK SEAL & CASING VENT DETAILS  
EASTCHESTER BAY – GAS  
DISTRIBUTION MAIN INSTALLATION PROJECT  
CITY ISLAND, BRONX COUNTY, NY.

										CITY ISLAND, BRONX COUNTY, N.Y.									

