

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-2018-01090-EBR

Issue Date: August 30, 2018 Expiration Date: October 1, 2018

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: Metropolitan Transit Authority New York City Transit

2 Broadway

New York, NY 10004

WATERWAY: East River

LOCATION: Seaward of the existing Empire Pier, between North 5th and North 6th Streets,

Borough of Brooklyn, Kings County, City of New York, New York

ACTIVITY: Installation of a temporary ferry landing

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 review for this permit application. Comments provided will become part of the public record for this

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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 is not likely to adversely affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the applicant has completed consultation with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat and conservation recommendations have been provided to this office which will be considered as part of the final decision.

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, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity, noise and vibrations during construction. New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. However, the applicant has completed consultation with NOAA/FS regarding EFH impacts and NOAA/FS has provided conservation recommendations to this office which will be considered as part of the final decision.

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.

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In addition to any required water quality certificate and 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
- New York State Department of State

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) 790-8516 and ask for William Bruno.

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

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WORK DESCRIPTION

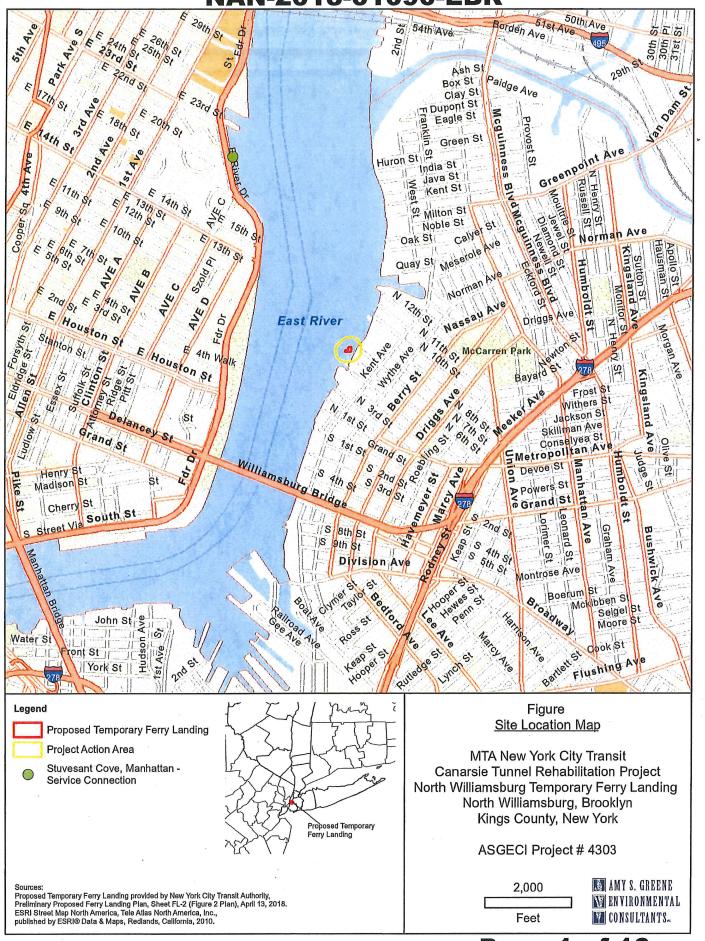
The applicant, Metropolitan Transit Authority New York City Transit, has requested Department of the Army authorization to install a temporary ferry landing. The project is located in the East River seaward of the existing Empire Pier, between North 5th and North 6th Streets, Borough of Brooklyn, Kings County, City of New York, New York.

The applicant proposes, approximately 57 feet from the terminus of the north side of the existing Empire Pier, the installation of a trapezoid-shaped fixed access platform, 18-foot-wide by 6-foot-long on the south side of the fixed access platform and 17-foot-long on the north side fixed access platform, supported by four (4) 16-inch-diameter steel piles leading to a 10-foot-wide by 80-foot-long gangway and a 35-foot-wide by 120-foot-long floating ferry landing, supported by six (6) 36-inch-diameter steel anchor piles. Also proposed are four (4) 36-inch-diameter steel donut fender piles.

The proposed ferry landing is to be installed between January 1, 2019 and February 28, 2019 and removed by July 31, 2020.

The stated purpose of this project is to provide an alternative public transit option for commuters between the Boroughs of Brooklyn and Manhattan during the proposed shutdown of the Canarsie Tunnels which the L-subway line runs through.

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NAN-2018-01090-EBR **Figure** Legend Aerial Map Proposed Temporary Ferry Landing Proposed 16" Piles MTA New York City Transit Proposed 36" Piles Canarsie Tunnel Rehabilitation Project North Williamsburg Temporary Ferry Landing North Williamsburg, Brooklyn Project Action Area Kings County, New York Proposed Temporary Ferry Landing ASGECI Project # 4303 Sources:
Proposed Temporary Ferry Landing and Proposed Piles provided by New York City Transit Authority, Preliminary
Proposed Ferry Landing Plan, Sheet FL-2 (Figure 2 Plan), April 13, 2018.
2016 Imagery in King County, NY Statewide Digital Ortholmagery Program (NYSDOP) Imagery Coverage, Statewide
Web Map Service Regional Coverage from 2000 to 2016, NYS Division of Homeland Security and Emergency Services
(DHSES), NYS Cyber Security, distributed 2017. MAMY S. GREENE 100 N ENVIRONMENTAL CONSULTANTS...

DESIGN CRITERIA: 1. DESIGN INTENT:

THE DESIGN AND CONSTRUCTION FOR THE TEMPORARY FERRY LANDING AND PILE FOUNDATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OUTLINED

2. BUILDING CODE:

THE DESIGN SHALL BE PERFORMED IN ACCORDANCE WITH THE 2016 NEW YORK CITY BUILDING CODE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE AND LOCAL REQUIREMENTS.

EXTREME CONDITION DENOTES THE MAXIMUM ALLOWABLE ENVIRONMENTAL CONDITIONS WITHIN WHICH THE STRUCTURE IS DESIGNED TO MAINTAIN ITS STRUCTURAL INTEGRITY-FACTOR OF SAFETY = 1.15 AGAINST YIELD OF STEEL OR FAILURE OF CONCRETE

96 MPH (PER NYC BUILDING CODE)

[13.55 FT (BHD) PRELIMINARY FIRM]

[8-15 FT (BHD) 2013 PRELIMINARY FIS]

O-8 (EXPOSURE C)

2% ANNUAL CHANCE

9.50 FT (NAVDOB)

2 TO 4 SECONDS

1.5 KNDTS

15 FT (NAVDBB)

4. NoLAREN CITYWIDE FERRY SERVICES - STRUCTURAL DESIGN CRITERIA - NOVEMBER 2016

A-LIVE LOADS:

LIVE LOAD ON PEDESTRIAN PLATFORMS.
PIER DECK. AND MARINE STRUCTURES = 100 PSF 75 PSF

R. SUPERIMPOSED DEAD LOAD =

FORCE COEFFICIENT -

IMPORTANCE FACTOR -

D. WATER LEVEL ANALYSIS: FEWA BASE FLOOD ELEVATION =

DESIGN STILL WATER -DESIGN STILL WATER ELEVATION =

SERVICE DESIGN WAVE PERIOD = DESTEN EVENT S'ENTETCANT HAVE HEIGHT . 4-2 FT 3.2 SECONDS Hyp

DESIGN WAVE = E CERRY I AMPTHE ANALYSTS.

IMPACT VELOCITY =

4.0 KNOTS G. MONOPILES DESIGNED FOR EMERGENCY IMPACT LOADING. FOR PROTECTION OF VESSEL AND TERMINAL STRUCTURE. NOT INTENDED AS MODRING STRUCTURES.

OPERATOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.

2. OPENATION IS SELLY REPORDIBLE FOR MEMORS, AND SAFETY OF MONE.

3. DIDINITIONS SORIN ON THESE PLANTS HAVE RESEARCH ALTHOUGH FROM CLIENT PROPRIED.

13. THE OPENATION WILL BE RESPONDIBLE FOR MALIN PER LO CONTINUES, ACCORDIBLEY, THE OPENATION WILL BE RESPONDIBLE FOR MALIN PET ELD BEASTRANGENES OF ALL PLANTS HAVE ALL PLANTS HAVE PER LONG STREAM FOR MALIN PLANTS SALL PLANT S

PRING TO COMMERCING HORS, THE OPERATOR SHALL VISIT THE SITE AND SHALL
IDENTIFY ANY UTILITIES, STRUCTURES, OR ANY OTHER ELEMITS WHICH MAY IMPEDE
YORK, UTILITY AMENDE TRUCTURE RELOCATIONS, IF RECESSARY, SHALL BY
COCROTINATED THROUGH THE OTHERS REPRESENTATIVE AT NO ADDITIONAL COST.

5. PRIOR TO COMMENCING MAY WORK. THE OPERATOR SMALL SCHEDULE AND COORDINATE ALL WORK THROUGH THE UNKER'S REPRESENTATIVE AND ANY OTHER CONSTRUCTION OPERATIONS THAT MAY BE AFFECTED BY THE PROJECT. THE OPERATOR SMALL CORDINATE THE WORK ON AS TO MINIMIZE INTERRIPTIONS IN FACILITY OPERATIONS. FACELS AND EGRESSION

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7. THE OPENATOR IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF ALL PERMITS ISSUED BY ANY REGULATING AGENCY HAVING JURISDICTION OVER THE WORK OF THIS PROLECT.

THE OPERATIONS CHAIR FORMERS

THE OPERATION SHALL EXPENDED EXTREME CAME TO PREVENT DAMAGE TO EXISTING SHUTTHES BY ON A 6 A RESILT OF HIS OPERATIONS. ANY DAMAGE RESILTING FROM THE OPERATION'S OPERATION'S SHALL BE REPAIRED AS DIRECTED BY THE DANCEY'S REPRESENTATIVE AT NO ADDITIONAL COST.

10. THE OPERATOR SMALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER, ANY OBERIS FALLING INTO THE WATER SMALL BE RECOVERED AND PROPERLY DISPOSED OF.

MAILE ADMAL DE RELUPEND AND PROPERTY DISPOSED OF.

II. PORPAITOR'S TOWARE AREA DUE TO THE SITTS'S WILEFRENT LOCATION, ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT BY ANY METHOD, OIL, CONSTRUCTION OBBILS STORPHICE DUETRILS. AND OIR MATERIALS ON THE SITTL, FIND ADDRESSED THE OFFICE MATERIAL PROPERTY OF THE STORPHICE ORDITION. IN ADDITION, THE SHALL BE RESTORED BY THE OPPRIATION TO THE SETTING CONSISTION. IN ADDITION, THE TO THE SATISFACTION OF THE ORDITION OF THE ORDITION OF THE ORDITION.

12. OPERATOR SHALL COORDINATE AND STACE MORK. LAY DOWN. AND STORAGE AREA LOCATIONS AND ACCESS WITH OWNER PRIOR TO START OF MORK.

13. IT IS THE DFERATORS RESPONSIBILITY TO VERIFY. CODROLNATE AND STAGE OR SEQUENCE HIS WORK WITH ANY OTHER PLANNED OR ONGOING CONSTRUCTION ACTIVITIES

14. ALL CONSTRUCTION AND RELATED ACTIVITIES SHALL BE CONDUCTED DURING NURWAL DAYTIME WORKING HOURS.

THE OPERATOR SHALL SUPPLY ALL SUBMITTALS STATED BELOW AND LISTED IN THE PROJECT SPECIFICATIONS;

1. SHOP DRAWINGS/ERECTION DRAWINGS: . PILE PLAN W/ IDENTIFICATION OF TEST PILES DETAIL PLAN OF EQUIPMENT AND PROCEDURES FOR PILE DRIVING AND TESTING

ACCESS PLATFORM DRAWINGS

. COATING SYSTEM - GRATING

. STONE MATERIAL

4. CERTIFICATES

· LABORATORY SPECIFICATION STEEL SHAPE MILL CERTIFICATES . STEEL PIPE PILE MILL CERTIFICATES • VELDERS ANS CERTIFICATES
• CONCRETE ADMIXTURES FROM THE NANUFACTURER.

DELIVERY, STORAGE EHANDLING:

DELIVER NATERIALS TO THE CONSTRUCTION SITE AT
APPROPRIATE INTERVALS SO AS TO ENSURE
UNINTERRUPTED PROGRESS OF WORK.

MINITERIAS SAIL DE STORDE D'ESTRE IN AN AREA DESIGNATE DE MEPROVED EN THE OMER. STRUCTUAL, TELES AUGUL DE DOUAND PROPOUT. A SEGUILE PREVIOU DE DOUAND PROPOUT. A SEGUILE PREVIOU DISTORTION AND DIMES DAMAGE. STRUCTUAL STEEL SHALL ES SURDE ON TIESEA AND NOT ON HOMO OR CHOOSES, AND OTHER DAMAGE SITE AND THE PREVIOUS DESIGNATION AND THE PALED IN COULD STRUCTUAL BE REDULT.

3. MATERIALS INTICHED TO COMPLY WITH SPECIFIED REQUIREMENTS. EITHER AT THE SHOP OR CONSTRUCTION SITE. SHALL BE PRODPTLY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL, WITHOUT ADDITIONAL COST TO THE OWNER, AND WITHOUT CAUSING DELAY IN MORE.

1. SURFACE PREPARATION AND PAINTING OF STEEL SURFACES AND WELDS SHALL BE ACCOMPLISHED PER THE REQUIREMENTS OF SSPC AND FOLLOWING NOTES.

THE ENTITY(S) PERFORMING SURFACE PREPARATION AND PAINTING, WHETHER THE LOCATION OF THE WORK IS IN THE SHOP OR FIELD. SHALL MEET THE REQUIREMENTS OF SSPC AND NOTES. PREPARE ALL STEEL SURFACES TO BE PAINTED BY ABRASIVE BLASTING IN ACCORDANCE WITH SSPC-SPIO USING EXPENDABLE BLAST MEDIA.

USING EATTHWARE BLAST MULTI-PROVIDE A STABEP, ANGILLAR UNIFORM ANCHOR PATTERN HITH A PROFILE RESHIT OF 2-5 MLLS. UNLESS THE REQUIREMENTS OF THE COATING MANUFACTUREN ARE MORE RESTRICTIVE PEAK COUNTS PER SOURCE INCH SHALL BE 90 ON CREATER WHICH TESTED IN ACCORDANCE WITH ASTED MATTY. METMOD C.

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3. STEEL PIPE PILES SHALL HAVE MAXIMUM SWEEP OF 1 1 OVER THE LENGTH AS DELIVERED ON SITE.

4. IF REPUBLIC AND DOSTRUCTIONS ARE ENCOUNTERED PRIOR TO REACHING THE REQUIRED MINIMUM ALLOWABLE CAPACITY AND EMBEDMENT, NOTIFY ENGINEER IMMEDIATELY.

5. ACCESS PLATFORM PILES SHALL CONFORM TO THE

A. STEEL PIPE PILES SHALL BE MINIMUN 16"

B. ACCESS PLATFORM STEEL PIPE PILES SHALL BE DRIVEN TO AN ALLOWABLE ANIAL CAPACITY AND TO A MINIMUM TIP ELEVATION DETERMINED BY THE OPERATOR.

OPERATOR.

C.A MINIMUM OF THO 102) ACCESS PLATFORM TEST
PILES SHALL BE DRIVEN WITHOUT INTERRUPTIONTEST PILES SHALL BE PRODUCTION PILES IN
WHICH. A PILE DRIVING ANALYZER (PDA)
MEASURDEMENTS AND CAPMAP ANALYSIS SHALL BE
PERFORMENT

PRIFEDED.

ACCESS PLATFORM PILES SMALL BE DRIVER WITH THE SAME MANGER AND DRIVING SYSTEM STATEMENT AND ADMINISTRATION OF THE PROPERTY OF THE PROPERTY OF THE STATEMENT AND RESULTS OF PRACTICES IN ADMINISTRATION OF THE STATEMENT OF THE STATEMENT

FERRY LANDING PILES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

A. FERRY LANDING AND FENDER PILES SHALL BE HINIMAN 36" DIAMETER OPEN-ENDED STEEL PIPE PILE WITH " MINIMUM THICK WALLS AND CONFORM TO A252 GR. 3 (MIN Fy-45 kg) OR APPROVED EQUAL.

B. FERRY LANDING PLATFORM ANCHOR PILES AND FEMDER PILES SHALL BE DESIGNED BY OPERATOR DRIVEN TO A MINIMUM SPECIFIED EMBEDMENT. C. MINIMUM PILE EMSEDMENT DEPTH SHALL BE PROVIDED BY OPERATOR.

PROVIDED BY OPENTION.

THE CONSISTENTIAL OF PILE STEED SHALL DEVALOP THE FILL BEIGHT CAPACITY OF THE PILE. PILE ST. LESS THE STATE OF THE ST. LESS THE STATE OF THE ST. LESS THE STATE OF T

9. STEAN PROMATICS DISEST. OR VIBRATORY MADRER MAY BE USED TO DRIVEL ALL PILING. ANY MATERIAL WHICH STORS THE DRIVING INCLIDING EXISTING PILE STUDS SHALL BE REMOYED BY THE OPERATOR.

DEPARTOR AT PETITION IS DIRECTED TO THE IMPORTANCE OF MONITORING AND PROTECTION OF EXISTING CAMARSIE TURNELS AND MAY NEARBY STRUCTURE THAT IS IDDIVITIED BY OWNER OR ENGINEER AS SENSITIVE TO DISTURBENCE.

3. OPERATOR TO PROVIDE INSTRUMENTATION AND MONITORING PLAN FOR CAMARSIE LIME TURNELS TO NYCT FOR REVIEW AND APPROVAL PRIOR TO PILE DRIVING.

4. OPERATOR TO SURVEY EXISTING SITE AND LIMITS OF CAMARSIE TUBE AND ATA PROPERTY LINE TO PROVIDE NOTED CLEARANCE ON DRAWINGS.

PILE AND BARGE LAYOUT SHOWN IS SUGGESTED BASED ON NOTED BARGE SIZE. OPERATOR TO PROPOSE DESIGN WITHIN NOTED CLEARANCES.

HITTE CLEANICES.

7. MED FILES ARE TO BE DRIVEN OR BRILLED AUGACHIT TO THE SUBWAY STRICKINES, BORNIE DATA, PILE LATHERS, SEE FILES TO BE SUBMITTED TO NET FOR A PROPORTY. WITCHING FILES TO BE INSTITUTED TO NET FOR A PROPORTY. WITCHING FILES TO BE INSTITUTED TO NET FOR A PROPORTY. WITCHING FILES TO BE INSTITUTED TO SEE THE STRICKING THE SUBMITTED TO BE MOST TOWN OF THE STRICKING BEING THE STRICKING BEING THE STRICKING BEING BEING

1- STEEL CONSTRUCTION SHALL CONFORM TO AISC
"STEEL CONSTRUCTION MANUAL". NINTH EDITION.
AND SHALL BE FABRICATED AND INSTALLED IN
ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS

2. MATERIALS FOR STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS: ROLLED SHAPES AND PLATES ASTM A992 THREADED RODS ASTM A36

CALVANIZING: WHERE STEEL PRODUCTS ARE SPECIFIED TO BE GALVANIZED. THEY SHALL BE HOT-DIP GALVANIZED. STEER FABRICATION. IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AND OTHER REQUIREMENTS LISTED BELOW.

A. SPECIFICATIONS FOR ZINC (HOT-GALVANIZED)
COATINGS ON PRODUCTS FABRICATED FROM
ROLLED. DRESSED AND FORCED STEEL SHAPES.
PLATES AND STRIP — ASTM A123.

B. SPECIFICATION FOR ZINC COATING (HOT-DIP GALVANIZED) ON IRON AND STEEL HARDWARE -ASTM A153.

C. SPECIFICATION FOR ZINC COATING (HOT-DIP) ON ASSEMBLED STEEL PRODUCTS - ASTM A386. D. THE ZINC COATING SHALL WEIGH NOT LESS THAN 2 DUNCES PER SQUARE FOOT.

E. ZINC QUST-ZINC OXIDE PRIMER COMPORMING TO MILITARY SPECIFICATION MIL-P-21035 SHALL BE APPLIED IN 2 COATS FOR REPAIRS TO DAMAGED SURFACES AFTER REMOVAL OF LOOSE CRACKED ZINC COATING.

F. PRIOR TO GALVANIZING. ALL WELDED CONNECTIONS SHALL BE SEALED ALL AROUND WITH A SEAL WELD. BOLTED CONNECTIONS SHALL NOT BE MADE PRIOR TO GALVANIZING.

4. SHALL HOT BY MODE PATION TO GLAVIATEZHO.

4. STRUCTURE STEEL SHALL BE SUPPRINTED WITH
THE 121 CRAITS OF THEMSE HI-MUILD THESE TAR
SHEITS 4444—17 DEVIABLE DEVIADOR—COLL THE OF
PEPPRIED IN ACCORDANCE WITH SEPTED HEAT
BLAST CLEANING. TRUCH-UP RESHEED AND DAMAGE
AFEAS IN THE FIELD IN ACCORDANCE WITH
MANUFACTURES'S TECOMORPHICAL HANDIAGE
PEPPRIED STRUCKES STOTAL OF SILES.

HINDRING THE STRUCKES STOTAL OF SILES.

HINDRING THE SILES STOTAL - 16.0 MILS.

1- ALL WELDING AND FABRICATION SHALL CONFORM WITH THE AMERICAN WELDING SOCIETY (AWS) AND REQUIREMENTS AND GUIDELINES.

2. ALL WELDERS SHALL BE CERTIFIED BY AWS GUIDELINES. 3. UNLESS OTHERWISE INDICATED. ALL FILLET YELDS SHALL BE CONTINUOUS AND DOUBLED SIDED. ALL BUTT YELDS SHALL BE COMPLETE PENETRATION YELDS.

4. ALL WELDS SHALL BE SUBJECT TO NON DESTRUCTIVE TESTING AT THE DISCRETION OF THE ENGINEER OF RECORD.

ALL PIPE PILE SPLICES SHALL BE COMPLETE JOINT PENETRATION GROOVE WELDS AND BE SUBJECT TO NON-DESTRUCTIVE TESTING.

1. GRATING TO BE INSTALLED ACCORDING TO VERSA GRATE MANUFACTURER'S INSTRUCTIONS. STEEL CONNECTION COMPONENTS

2. OPERATOR MUST SUBMIT SHOP DRAWINGS. MANUFACTURER'S SPECIFICATIONS AND SIGNED AND SEALED CALCULATIONS FOR APPROVAL BY ENGINEER FOR ALL COMMERCIAL/MANUFACTURER'S COMPONENTS.

NAVIGATIONAL LIGHTS SHALL BE SOLAR POWERED. WITH A 225 DEG VIEWABLE, FLASHING WHITE EVERY 4 SEC WITH A MINIMUM RANGE OF TWO NAUTICAL MILES AND FULLY ENCASED IN A WATERPROOF ENCLOSURE.

ALL MAYIGATIONAL LIGHTS SHALL CONFORM TO MARITIME PORT AUTHORITY IMPA) REGULATIONS.

1. OPERATOR TO COORDINATE SCHEDULING ALL WORK WITH DWIER OPERATOR AND SUBSPERATOR SHALL TAKE EXTREME CARE DURING DEMOLITION NOT TO DAMAGE OR DISTURB ANY EXISTING CONDITIONS THAT ARE TO REMAIN.

3- OPERATOR AND SUBDPERATOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE

5. ALL INSTALLED PILES SHALL BE REMOVED AND PROPERLY DISPOSED CFF SITE.

ABBREVIATIONS:

ADD ITTONA ARCHITECTURA

APPROX. APPROXIMATE OR APPROXIMATELY B OR BOT-BOTTOM BALANCE BEAN BEARING PLATE

BOTTON OF SLAB C. I.P. CAST IN PLACE CENTERLINE

COLUMN CONCRETE CONCRETE SLAB DIAVETED DRAVING

DWL(S) DOWELS EACH FACE FI . OR FLEV. FLEVATION

FACH WAY

FINISH

FT OR FEET OR FOOT HOT DIP GALVANIZED INSIDE DIAMETER

FOUNDS

NINIMIN CUTSIDE DIAMETER D.D.

U.O.N.

STATIN ESS STEEL THICK TOP OF SLAB

ALL ELECTRODES USED SHALL COMPLY WITH ABS OR AWS SPECIFICATION AND SHALL BE ETOXX LOW HYDROGEN.

6. ANY DEFECTS SHALL BE CORRECTED IN ACCORDANCE WITH AMS RULES AT NO ADDITIONAL COST TO THE OWNER.

1. THESE COMPONENTS SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UNLESS NOTED OTHERWISE.

4. ALL TEMPORARY FERRY ELEMENTS. GANGWAY. ACCESS PLATFORM-FERRY LANDING PLATFORM NEED TO BE REMOVED.

6. ALL PILES SHALL BE PULLED OR CUT OFF AT THE MUD LIKE AS APPROVED BY THE OPERATOR:

HLLV: NGVD29 NAVD88 BHD IGHEST GESERVED-HURRICANCE SANON 12.37 11.27 9.52 4.04 5.05 3.38 2.28 0.63 5.05 5.26 2.28 0.85 4.73 3.06 1.96 0.51 4.22 2.51.7 1.1.5 0 2.77 1.10 0 -1.25 2.57 0.90 -0.20 -1.65 2.53 0.86 -0.24 2.47 0.89 -0.30 1.67 0 -1.10 0.20 -1.47 -2.57 -1.69 -1.75 -2.55 0 -1.67 -2.77 -4.29 -5.96 -7.06

UNLESS OTHERWISE NOTED

WATER SURFACE ELEVATION

1. TIDAL DATA TAKEN FROM NOAA TIDAL LEVEL BENCHMARKS AT THE BATTERY, NY - STATION B518750 (PRESENT EPOCH 1983-2001).

2. ELEVATIONS SHOWN IN FEET.



WSP. PARSONS BRINCKERHOFF

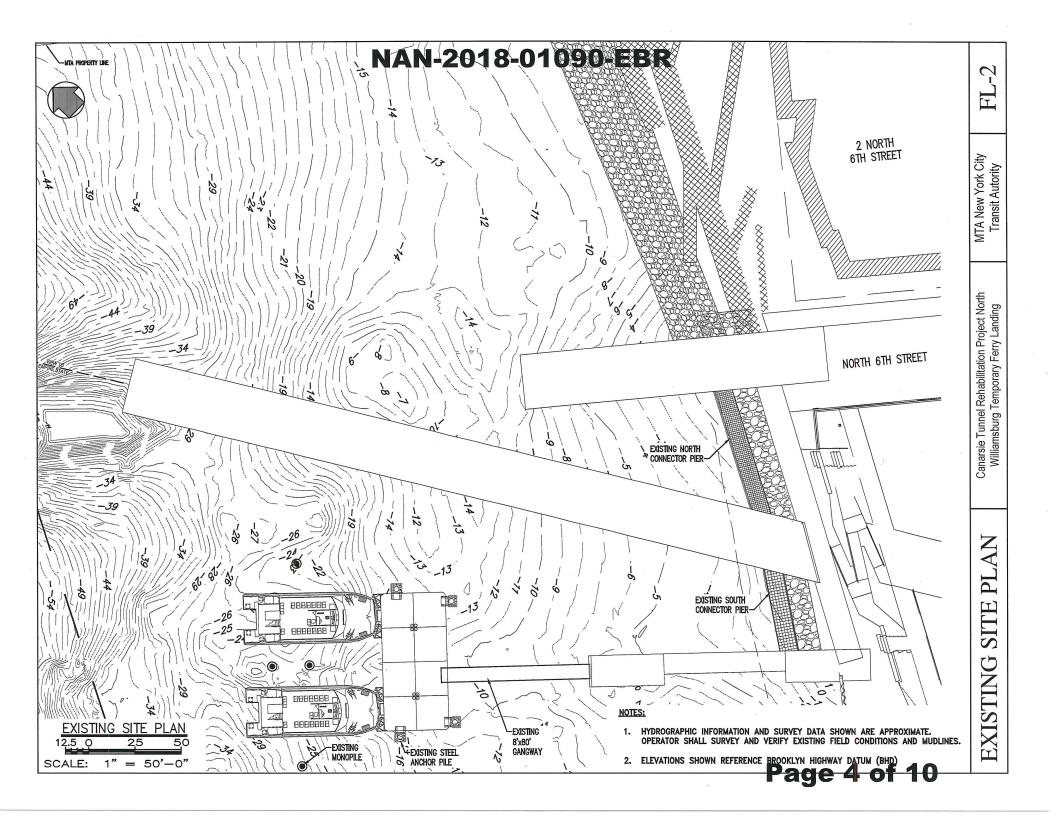
30 % DESIGN

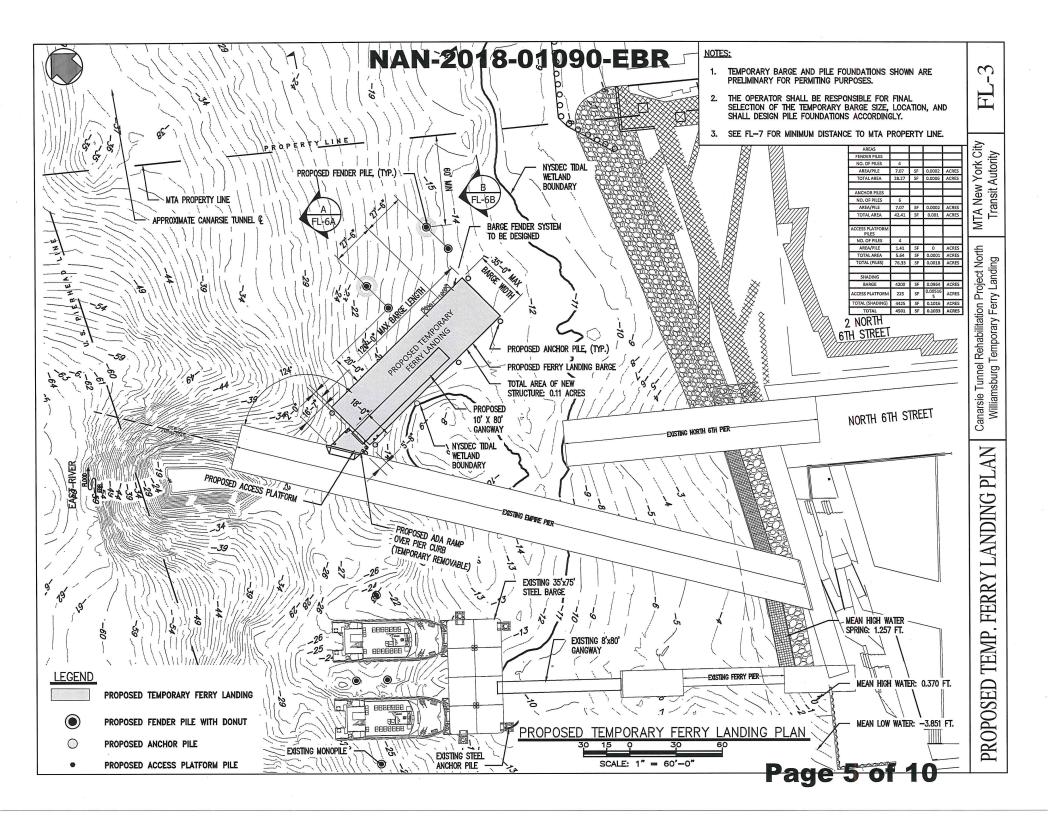
North Williamsburg Temporary Ferry Landing Canarsie Tunnel Rehabilitation

GENERAL NOTES

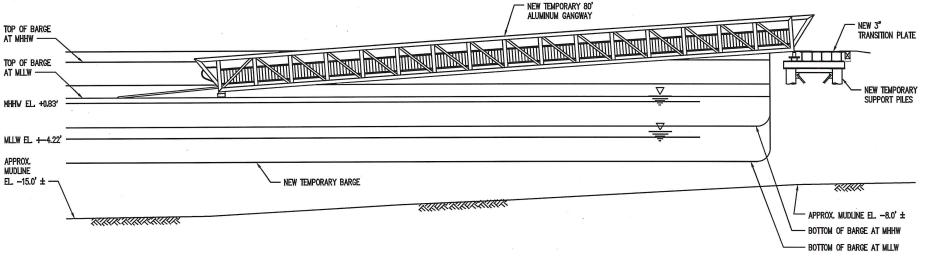


N ANY MICE A LEGICAL DE RESPONSABILA DE RECENSARIA LAN SECURIO DE LA PROPERTION DE LA PROPE





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TIDAL DATA					
	MLLW	NGVD29	NAVD88	BHC	
HIGHEST OBSERVED-HURRICANCE SANDY (10/30/2012, LOCAL TIME 21:24)	14.04	12.37	11.27	9.82	
MHHW	5.05	3.38	2.28	0.83	
MHW	4.73	3.06	1.96	0.51	
BHD, BROOKLYN HIGHWAY DATUM	4.22	2.547	1.45	0	
NAVD88	2.77	1.10	0	-1.45	
MSL	2.57	0.90	-0.20	-1.65	
DTL	2.53	0.86	-0.24	-1.69	
MTL	2.47	0.80	-0.30	-1.75	
NGVD29	1.67	0	-1.10	-2.55	
MLW	0.20	-1.47	-2.57	-4.02	
MLLW	0	-1.67	-2.77	-4.22	
LOWEST OBSERVED (2/2/76)	-4.29	-5.96	-7.06	-8.51	

NOTES:

- 1. TIDAL DATA TAKEN FROM NOAA TIDAL LEVEL BENCHMARKS AT THE BATTERY, NY STATION B518750 (PRESENT EPOCH 1983-2001).
- 2. ELEVATIONS SHOWN IN FEET.

RANGE	OF	F MOTION
SCALE: 3/2"	=	1'-0"

GANGWAY SLOPE		
мннw	0.0178 FT/FT	
MLLW	0.0754 FT/FT	

NOTES:

- 1. ELEVATIONS SHOWN REFER TO BHD.
- 2. BARGE DECK ELEMENTS AND ANCHOR PILES NOT SHOWN FOR CLARITY
- THE OPERATOR SHALL BE RESPONSIBLE FOR SELECTION OF TEMPORARY BARGE AND PROVIDE DESIGN ACCORDINGLY.

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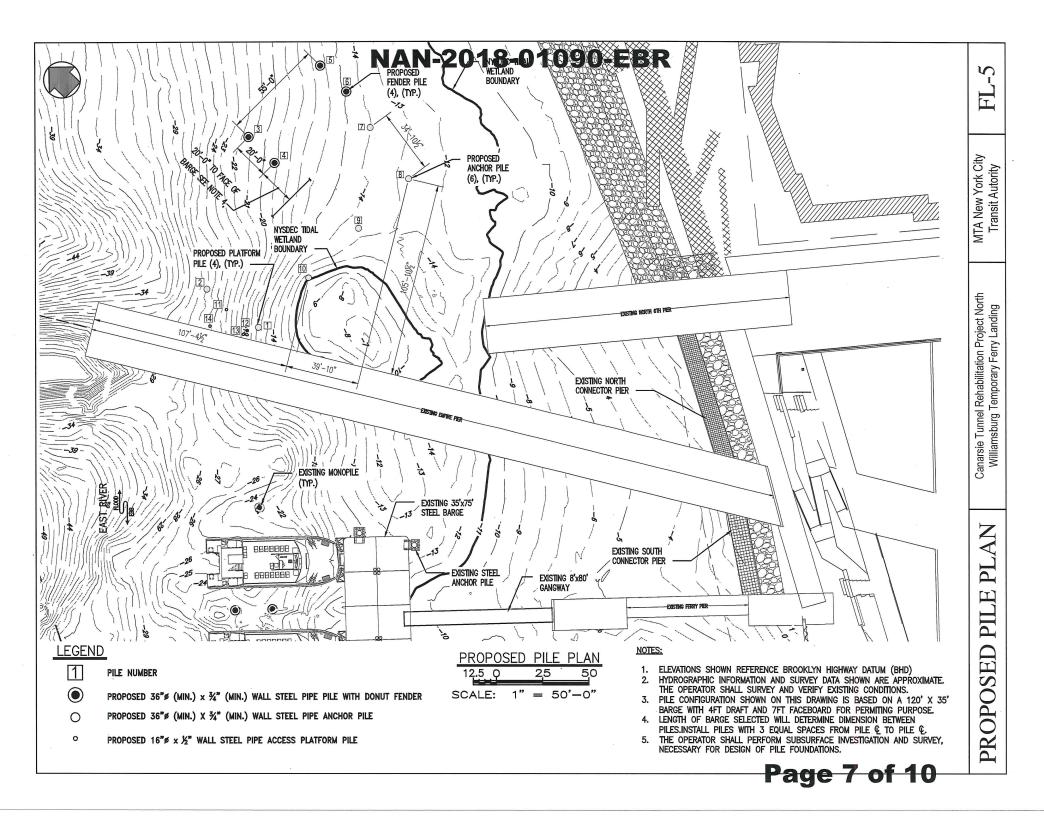
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Canarsie Tunnel Rehabilitation Project North Williamsburg Temporary Ferry Landing

PRELIMINARY DETAIL



FL-6A MTA New York City Transit Autority Canarsie Tunnel Rehabilitation Project North Williamsburg Temporary Ferry Landing FOUNDATION SECTIONS PILE



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MHW EL 0.83

THE CLOSEST PILE SHALL BE !MINIMUM 60' AWAY FROM MTA PROPERTY LINE TO PROTECT DAMAGE TO CANARSIE TUNNEL

(BHD)

MUDLINE, EL=-13

36" DIA. (MIN.) X 0.75" (MIN.) WALL, OPEN ENDED ANCHOR

100'-0"

125'-0"

FL-3

SECTION

PIPE PILE

MTA PROPERTY LINE

LANDING PLATFORM

-5

-10

-15

-20

-25

-30

-35

-45

-50

-55

-60

-65

-70

-75

MINIMUM PILE EMBEDMENT DEPTH To be provided by operator

- THE PILE FOUNDATIONS SHOWN SHALL BE DESIGNED BY OPERATOR. THE OPERATOR SHALL PERFORM SUBSURFACE INVESTIGATION AND HYDROGRAPHIC SURVEY TO CONFIRM ACTUAL CONDITION BASED ON HIS SELECTION OF TEMPORARY BARGE LOCATION AND DIMENSIONS.
- . PILE CUTOFF ELEVATIONS FOR THE ANCHOR PILES AND MONOPILES SHALL PROVIDE FOR ADEQUATE CLEARANCE FOR THE BARGE AND FENDERS TO REMAIN IN PLACE DURING EXTREME STORM SURGES AND WEATHER FVENTS.

APPROX. LIMITS OF

CANARSIE TUNNELS

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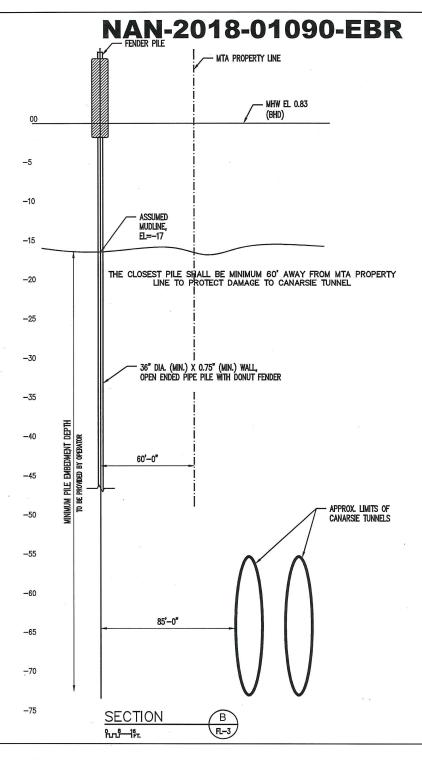


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Legend:

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Ferry Landings

Proposed Route

Figure D-12

PROJECT TITLE:
CANARSIE FERRY
PROPOSED FERRY ROUTE
LOCATION MAP