

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-2020-00388-WCA
Issue Date: **June 5, 2020**
Expiration Date: **July 6, 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), and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: New Jersey Turnpike Authority
One Turnpike Plaza
Woodbridge, New Jersey 07095-5042

ACTIVITY: Discharge fill material into, and construct beneath, navigable waters of the United States, to facilitate the installation of a new 5,705 linear foot 6-inch diameter underground natural gas transmission pipeline.

WATERWAY: Bellman's Creek (Hackensack River Watershed)

LOCATION: Borough of Ridgefield, Bergen County, New Jersey.

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.

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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 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 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 District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area 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, could cause the disruption of habitat for various life stages of some EFH-designated species as a result of a temporary increase in turbidity during construction. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to 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.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

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 occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal,

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should be so addressed.

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 Jersey Department of Environmental Protection Waterfront Development Permit and Flood Hazard Permit)

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) 790-8412 and ask for Jim Cannon.

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

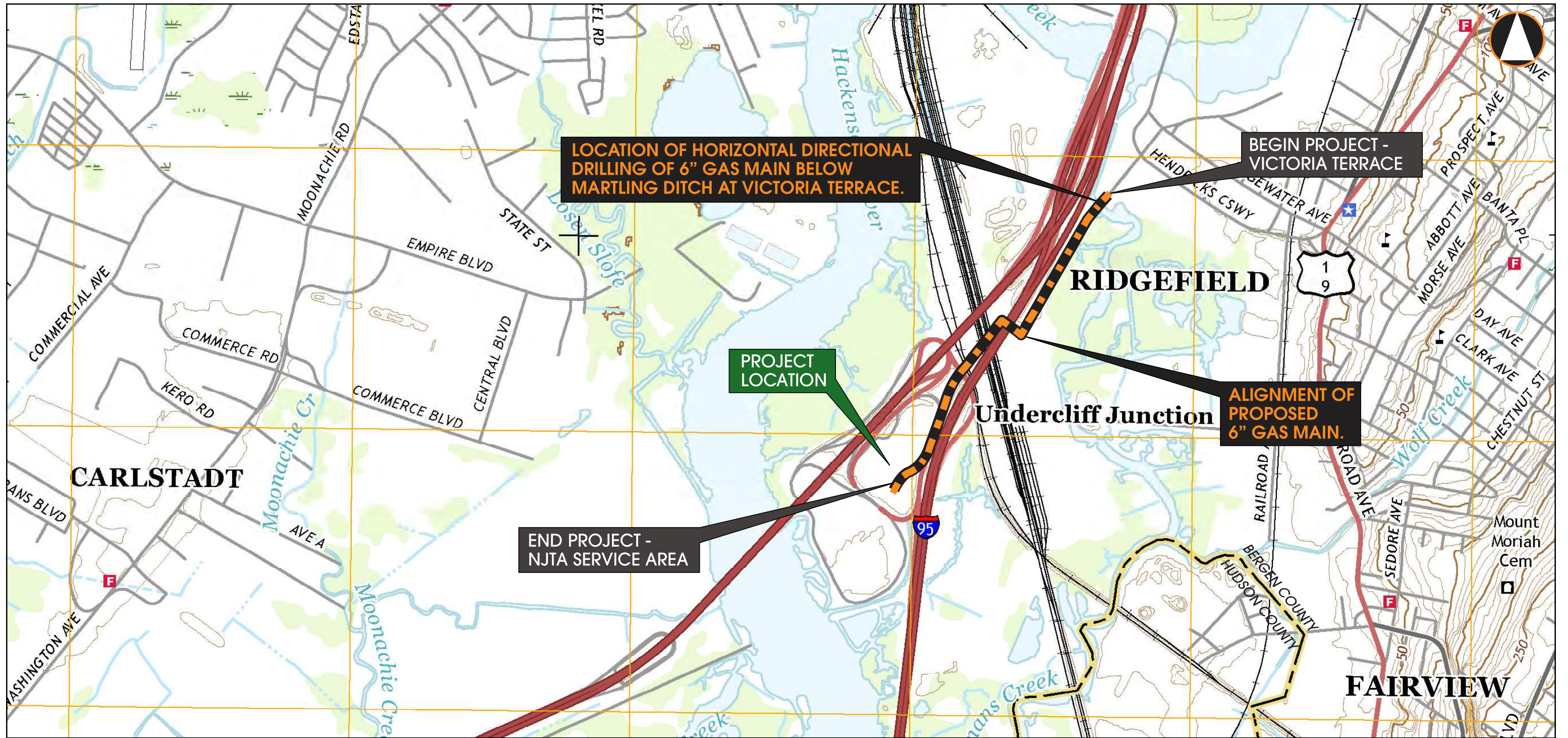
The applicant, the New Jersey Turnpike Authority (NJTA), has requested Department of the Army authorization to discharge fill material into, and construct beneath navigable waters of the United States, to facilitate the installation of a new 5,705 linear foot 6-inch diameter underground natural gas transmission pipeline. The new gas pipeline would be installed by open trenching and horizontal directional drill (HDD), and would extend from an existing natural gas transmission main line situated along Victoria Terrace, in the Borough of Ridgefield, to the Vince Lombardi Service Area situated along the New Jersey Turnpike, within the Hackensack River watershed, in the Borough of Ridgefield, Bergen County, New Jersey.

The new natural gas transmission pipeline would tie-into and extend from an existing 6-inch diameter natural gas transmission main line situated along Victoria Terrace, and adjacent to Bellman's Creek. From the pipeline tie-in location, the new 6-inch diameter natural gas pipeline would be installed by horizontal directional drill (HDD) beneath Martling Ditch (a tidal tributary of Bellman's Creek that extends beneath Victoria Terrace) for a distance of approximately 270 linear feet. The 6-foot wide by 6-foot long HDD entry pit situated on the north side of the ditch, and the 6-foot wide by 6-foot long receiving pit situated on the southern side of the ditch, would be excavated to a depth of approximately 5 feet, and would be situated in uplands. The top of the gas pipeline would be installed at a minimum depth of five (5) feet below the depth of the existing bottom of Martling Ditch (approximately - 0.30 feet North American Vertical Datum (NAVD 88)). Installation of the transmission line within the existing roadway of Victoria Terrace, would be accomplished by open trenching (through emergent wetlands) and the excavation of a 3 to 4-foot wide by 1,895 linear foot long open cut trench and placing the transmission line approximately 3 feet beneath the surface of the roadway. No additional clearing is required to facilitate trenching.

The applicant has stated that all excavated material removed from the HDD launch and receiving pits, and the open trench areas (except for the top 12 inches of the trench) would be removed from the site and disposed of at a state approved upland site.

As a result of the proposed 6-inch diameter underground natural gas transmission pipeline installation activities, approximately 0.002 acres of waters of the United States, including wetlands, would be temporarily disturbed. The applicant has stated that upon completion of the regulated transmission line installation activities, all temporarily disturbed waters of the United States, including wetlands, would be restored to preconstruction elevations and planted with native hydrophytic species where appropriate.

The stated purpose of this project is to replace the existing on-site inefficient propane gas cooking and electrical heating system at the Vince Lombardi Service Area with a natural gas cooking and heating system.



LOCATION OF HORIZONTAL DIRECTIONAL DRILLING OF 6" GAS MAIN BELOW MARTLING DITCH AT VICTORIA TERRACE.

BEGIN PROJECT - VICTORIA TERRACE

PROJECT LOCATION

ALIGNMENT OF PROPOSED 6" GAS MAIN.

END PROJECT - NJTA SERVICE AREA

Undercliff Junction

USGS U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY The National Map US Topo science for a changing world

ROAD CLASSIFICATION		
Excessway	Local Connector	
Secondary Hwy	Local Road	
Warp	4WD	
Interstate Route	US Route	State Route

Scale: N.T.S.

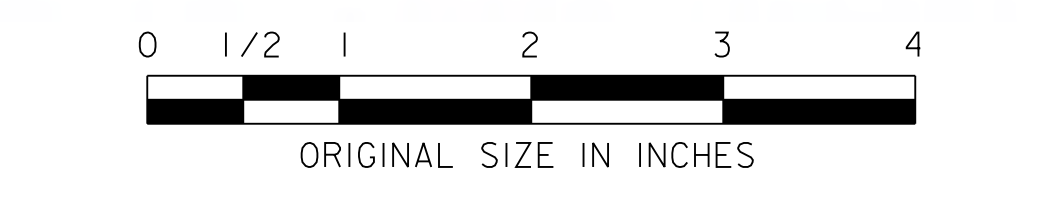


Quad Map
 Vince Lombardi Utility Improvements
 Ridgefield, NJ

U:\192510814\graphic_design\QUAD



- LEGEND**
- 6" GAS MAIN WORK PERFORMED BY PSE&G GAS
 - 6" CARRIER PIPE INSTALL BY SERVICE AREA CONTRACTOR, GAS MAIN INSTALLED BY PSE&G GAS



NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 GAS AND WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13

SERVICE AREA UTILITIES

SCALE: 1" = 60'
 DATE: MAY 2020



NEW JERSEY TURNPIKE

CONTRACT NO. T400.552
VINCE LOMBARDI SERVICE AREA
UTILITY IMPROVEMENTS
MILEPOST E116
BOROUGH OF RIDGEFIELD
BERGEN COUNTY
NEW JERSEY

NJTA STANDARD DRAWINGS

DWG NO.	DESCRIPTION	REVISION	
		NO.	DATE
DR-10	EROSION CONTROL - 1	0	04/09
DR-11	EROSION CONTROL - 2		04/09
DR-12	EROSION CONTROL - 3		04/09
DR-13	EROSION CONTROL - 4	0	04/09
DR-14	EROSION CONTROL - 5	0	04/09
TP-13	RIGHT HALF RAMP CLOSING	0	12/16
TP-18	PORTABLE VARIABLE MESSAGE SIGNING	0	12/16
TP-19	TEMPORARY TRAFFIC CONTROL SIGNING - 1	0	12/16
TP-20	TEMPORARY TRAFFIC CONTROL SIGNING - 2	0	12/16
TP-21	SIGN STAND TYPE III FOR MOUNTING GUIDE RAIL OR CONCRETE MEDIAN BARRIER	0	12/16
TP-22	PRECAST CONCRETE CONSTRUCTION BARRIER TYPE 4, ALT. A & ALT. B (1 OF 2)	0	12/16
TP-23	PRECAST CONCRETE CONSTRUCTION BARRIER TYPE 4, ALT. A & ALT. B (2 OF 2)	0	12/16

STANDARD DRAWINGS AVAILABLE AT: <http://www.njta.com/doing-business/professional-services>

NJTA REFERENCE DRAWINGS

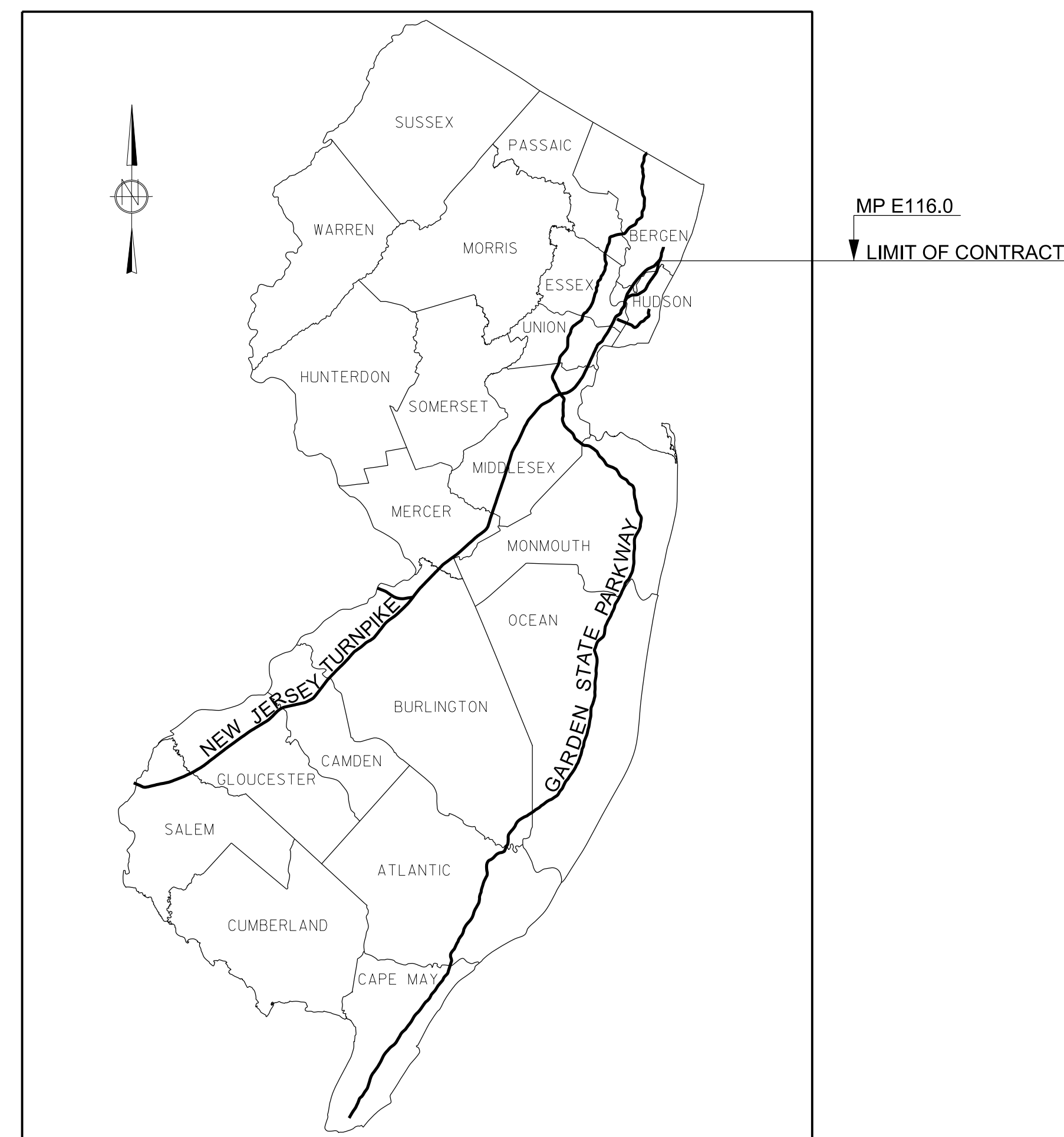
REFERENCE CONTRACT NUMBER	REFERENCE CONTRACT SHEET NO.	DESCRIPTION
W-1728	11-13, 20-23	NEW JERSEY TURNPIKE AUTHORITY 1969 WIDENING SECTION NO. 78 MILE W113 TO W118

UTILITY COMPANIES

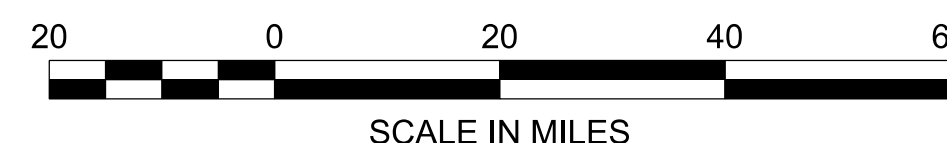
PENTA COMMUNICATIONS
VERIZON TELECOMMUNICATIONS
PSEG GAS & ELECTRIC
BERGEN COUNTY UTILITIES AUTHORITY
CHARTER COMMUNICATIONS
SUEZ WATER

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LEGEND
3	GENERAL NOTES
4-5	PLAN REFERENCE AND BORING LOCATION SHEET
6-14	SOIL EROSION AND SEDIMENT CONTROL PLANS
15-22	CONSTRUCTION PLANS
23-25	PROFILES



LOCATION PLAN



ENVIRONMENTAL PERMIT APPLICATION PLANS

MARCH 1, 2020

THE 2016 STANDARD SPECIFICATION OF NEW JERSEY TURNPIKE AUTHORITY, AS AMENDED BY SUPPLEMENTARY SPECIFICATIONS, TO GOVERN.

Recommended _____ Date _____
 RUSSELL SAPUTO, P.E.
 STANTEC CONSULTING SERVICES INC.
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE NO. 24GE03667300

LEGEND

(CONCEPTUAL ONLY - NOT TO PLAN SCALE)

ROADWAY

- PROPERTY LINE _____
- FENCE _____ SEE NOTE 1
- RIGHT OF WAY _____
- DENIAL OF ACCESS LINE _____
- EASEMENT LINE _____
- GUIDE RAIL _____
- EDGE OF ROADWAY PAVEMENT _____
- EDGE OF SHOULDER PAVEMENT _____
- GROUND CONTOUR _____
- BORING LOCATION _____
- CURB _____
- DEPRESSED CURB _____
- SIGN _____

- CONCRETE MONUMENT _____
- IMPACT ATTENUATOR _____
- CONCRETE BARRIER _____

- CONSTRUCTION BARRIER _____
- DIRECTION OF TRAFFIC _____
- BASELINE CURVE DATA REFERENCE _____

- TERRAPIN FENCE _____

DRAINAGE

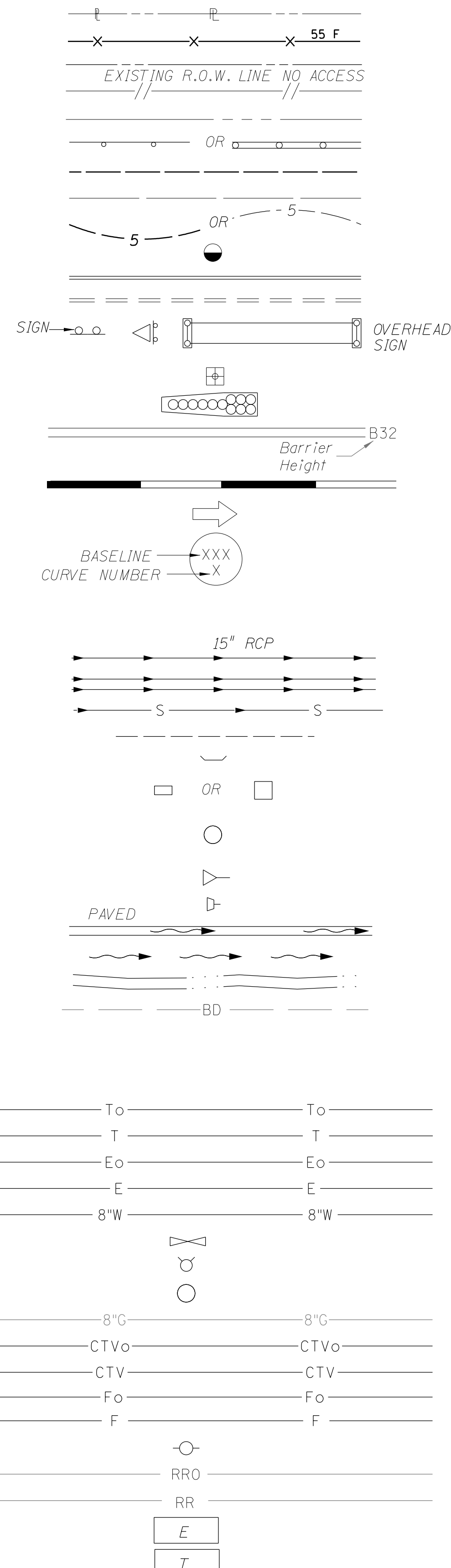
- STORM DRAIN _____
- STORM DRAIN, > 42" _____
- SANITARY SEWER _____
- UNDERDRAIN _____
- HEADWALL _____
- DROP INLET OR CATCH BASIN _____
- RESET INLET OR CATCH BASIN _____
- MANHOLE _____
- RESET MANHOLE _____
- LIP CURB INLET _____
- FLARED END SECTION _____
- PAVED DITCH OR CHANNEL _____
- UNPAVED DITCH OR CHANNEL _____
- STREAM _____
- BLEEDER DRAIN _____
- INLET CONVERTED TO MANHOLE _____

UTILITIES

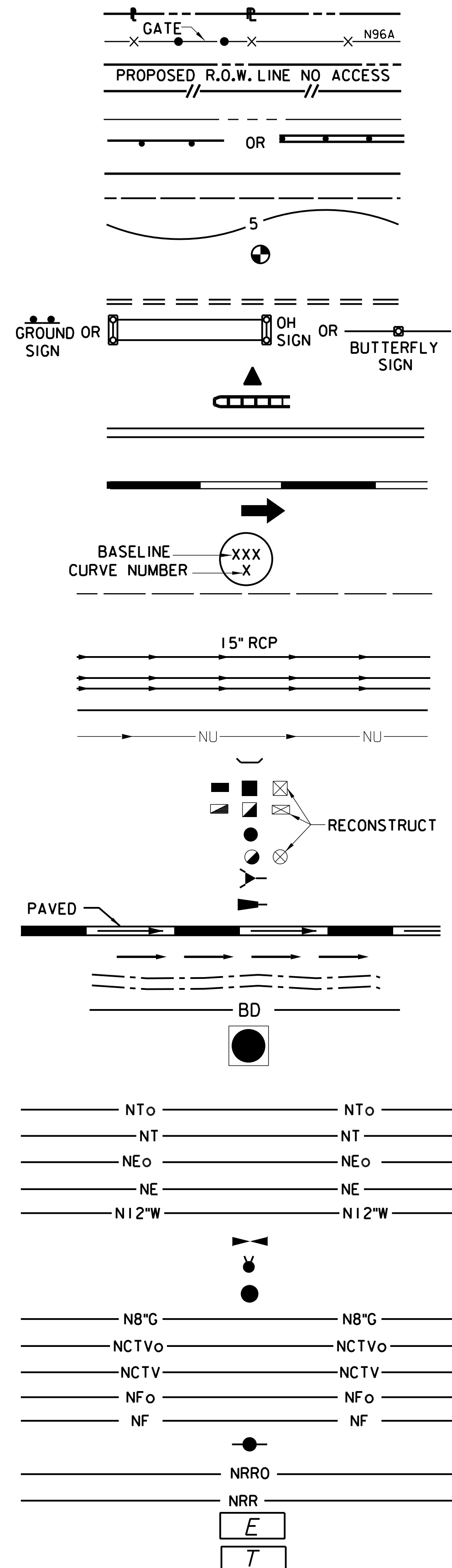
- TELEPHONE OR COMMUNICATIONS LINE OVERHEAD _____
- TELEPHONE OR COMMUNICATIONS LINE UNDERGROUND _____
- POWER LINE OVERHEAD _____
- POWER LINE UNDERGROUND _____
- WATER MAIN _____
- WATER MAIN VALVE _____
- WATER HYDRANT _____
- MANHOLE _____
- GAS PIPELINE _____
- CABLE TV OVERHEAD _____
- CABLE TV UNDERGROUND _____
- FIBER OPTIC CABLE OVERHEAD _____
- FIBER OPTIC CABLE UNDERGROUND _____
- UTILITY POLE _____
- RAILROAD COMMUNICATION OR SIGNAL LINE OVERHEAD _____
- RAILROAD COMMUNICATION OR SIGNAL LINE UNDERGROUND _____
- UTILITY CO. MANHOLE, ELECTRIC (TYPE AND SIZE AS NOTED) _____
- UTILITY CO. MANHOLE, TELEPHONE (TYPE AND SIZE AS NOTED) _____

ITEM

EXISTING



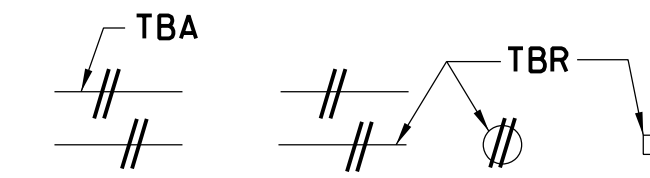
PROPOSED



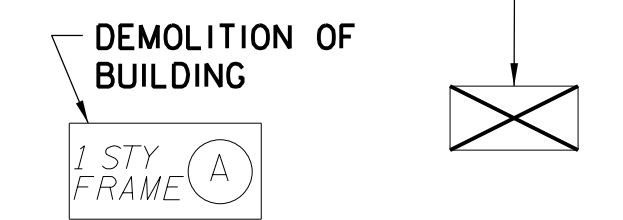
GENERAL

ITEM

- ABANDON _____
- REMOVE _____
- DEMOLITION _____

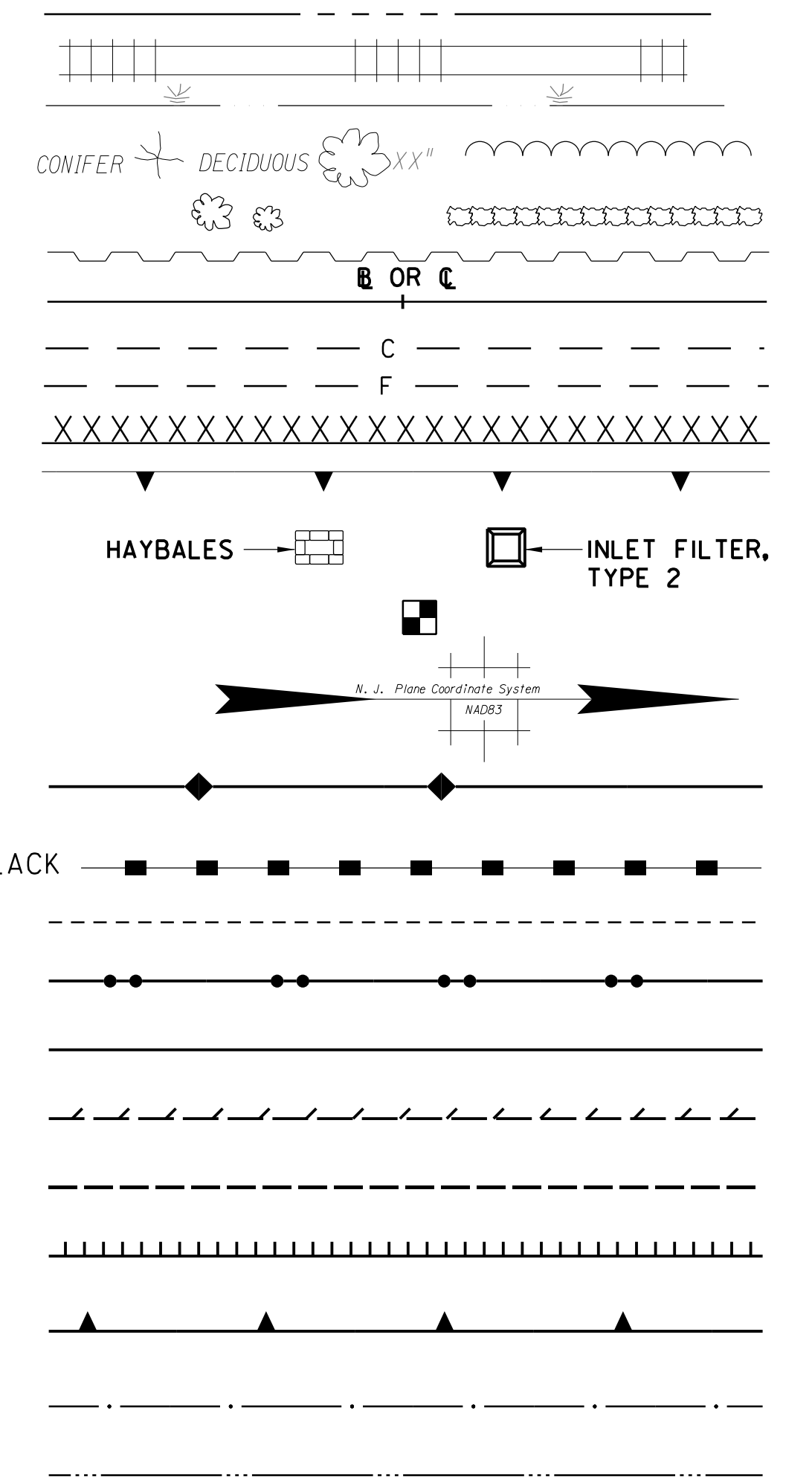
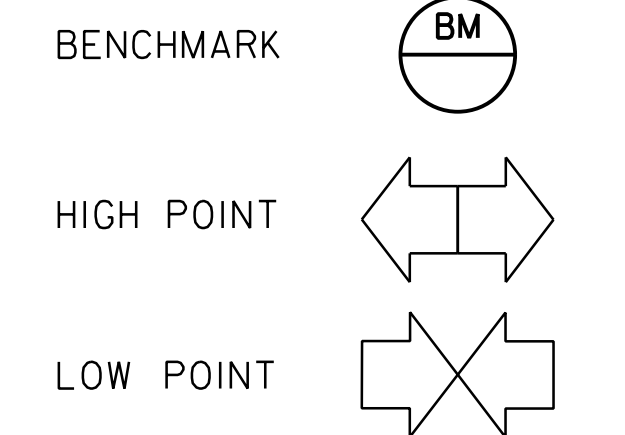
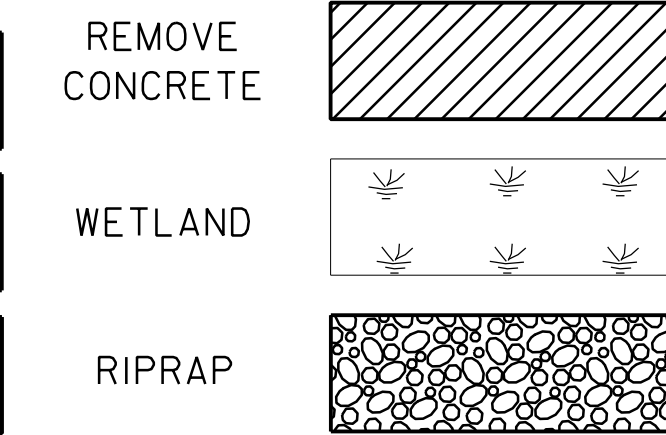


TO BE REMOVED UNDER CLEARING AND GRUBBING



MISCELLANEOUS ITEMS

- OVERLAY _____
- CONCRETE NOSE _____
- MILLING & RESURFACING _____
- COUNTY OR MUNICIPAL LINE _____
- RAILROAD _____
- EXISTING MARSH _____
- EXISTING TREES AND TREE LINE _____
- EXISTING BUSH AND HEDGE _____
- EXISTING SHEETING _____
- CENTERLINE OR BASELINE _____
- TOP OF CUT SLOPE _____
- TOE OF FILL SLOPE _____
- SAWCUT _____
- WETLAND DELINEATION _____
- TEMPORARY INLET PROTECTION _____
- TEST PIT _____
- NORTH ARROW _____
- HEAVY DUTY SILT FENCE, BLACK _____
- TEMPORARY ORANGE PLASTIC FENCE W/ HEAVY DUTY SILT FENCE, BLACK _____
- SOIL BOUNDARY _____
- FLOATING TURBIDITY BARRIER _____
- LIMIT OF CLEARING _____
- FRESHWATER WETLAND LIMIT _____
- LIMIT OF FRESHWATER WETLAND TRANSITION AREA _____
- TIDAL OPEN WATER TOP OF BANK _____
- TIDAL WETLAND LIMIT _____
- LIMIT OF TIDAL FLOOD HAZARD AREA _____
- FRESHWATER DITCH TOP OF BANK _____



GENERAL NOTES

1. THE SUFFIX LETTER DESIGNATIONS USED IN THE SYMBOL FOR FENCE ARE AS FOLLOWS: F-FARM FENCE, A-ALUMINUM COATED CHAIN LINK, B-BARBED WIRE, P-PVC COATED CHAIN LINK, AND T-TEMPORARY. THE NUMERICAL VALUE USED INDICATES HEIGHT OF FABRIC IN INCHES.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

GENERAL LEGEND -1-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0367300

SCALE: NONE
 DATE: MAY 2020

2
 25

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

GENERAL NOTES:

1. THE HORIZONTAL DATUM IS IN THE NEW JERSEY STATE PLANE GROUND COORDINATE SYSTEM NAD 83 (ADJUSTED 2007) US SURVEY FEET.
2. THE VERTICAL DATUM IS IN NGVD 88, GRID COORDINATES.
3. THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN THE CLEAR ZONE OF ANY ROADWAY WITHOUT PLACEMENT OF THE REQUIRED TRAFFIC CONTROL MEASURES AND/OR APPROVED LANE AND SHOULDER CLOSURES. THE CLEAR ZONE, MEASURED FROM THE EDGE OF TRAVELLED WAY, IS 30 FEET MINIMUM ON BOTH THE NEW JERSEY TURNPIKE MAINLINE AND RAMP.
4. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE RESPECTIVE SOIL CONSERVATION DISTRICT TO DETERMINE APPROVED LOCATIONS FOR ANY STAGING AREAS REQUIRED BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL NOT ENCR OACH UPON ANY WETLAND OR OPEN WATER AREAS BEYOND THOSE LIMITS DELINEATED ON THE PLANS.
6. SUBSURFACE INFORMATION SHOWN ON THESE PLANS WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
7. CONTRACTOR SHALL NOT DISPOSE OF AN EXCAVATED MATERIAL WITHIN NJTA PROPERTY.
8. UNDERGROUND UTILITIES SHOWN ON THE CONTRACT PLANS ARE APPROXIMATE AND BASED ON AVAILABLE RECORD INFORMATION. TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO. THE CONTRACTOR IS ADVISED THAT NEW JERSEY LAW REQUIRES ANYONE DIGGING TO CALL NJ ONE CALL AT (800)-272-1000 THREE (3) FULL BUSINESS DAYS PRIOR TO BEGINNING WORK.
9. THE CONTRACTOR SHALL COORDINATE THE PROTECTION OF ANY EXISTING OVERHEAD OR UNDERGROUND FACILITIES WITHIN THE CONTRACT LIMITS BASED ON THE NEEDS AND/OR IMPACTS OF CONSTRUCTION ACTIVITIES. THE RESPECTIVE FACILITY OWNER SHALL BE CONTACTED WHEN COORDINATION EFFORTS ARE NECESSARY.
10. IN ORDER TO PROVIDE A SUFFICIENT LEVEL OF LEGIBILITY ON THE PLAN SHEETS, NOT ALL SUBSURFACE FEATURES (EXISTING AND / OR PROPOSED) ARE SHOWN ON EVERY PLAN SHEET. THE CONTRACTOR IS DIRECTED TO REVIEW EACH SECTION OF THE PLAN SHEETS (HIGHWAY, DRAINAGE, UTILITY, ETC.) IN ORDER TO ACCOUNT FOR ALL SUBSURFACE FEATURES AND TO ENSURE PROPER COORDINATION OF THE WORK ITEMS OF THIS CONTRACT.
11. CONTRACTOR SHALL PERFORM TEST PITS AT ALL UTILITY CROSSINGS INCLUDING BUT NOT LIMITED TO UTILITIES ON RAILROAD RIGHT-OF-WAY. COORDINATION AND RIGHT OF ENTRY PERMIT WITH RAILROAD OWNER IS REQUIRED. ALL COSTS ASSOCIATED WITH RAILROAD COORDINATION AND PERMITTING TO BE PAID FOR UNDER "IF AND WHERE DIRECTED" ITEM "TEST PITS".
12. NO WORK SHALL COMMENCE WITHIN THE NJTA ROW UNTIL A TRAFFIC PERMIT HAS BEEN ISSUED BY THE NJTA OPERATIONS DEPARTMENT.
13. CONTRACTOR IS ADVISED THAT FINAL RESTORATION OF THE WORK ZONE/STAGING AREA WITHIN THE NJTA RIGHT OF WAY IS TO THE SATISFACTION OF THE NEW JERSEY TURNPIKE AUTHORITY.
14. CONTRACTOR SHALL MONITOR SETTLEMENT ON ALL ROADWAYS WITHIN NJTA RIGHT OF WAY DURING TRENCHLESS INSTALLATION UP TO 10 FEET FROM THE EDGE OF PAVEMENT. DURING BORING OPERATIONS CONTRACTOR SHALL MONITOR FOR SETTLEMENT AND/OR HEAVE ALONG THE BORE LINE.
15. ALL UTILITY WORK SHALL BE PERFORMED VIA OPEN TRENCH INSTALLATION UNLESS OTHERWISE NOTED ON THE PLANS.
16. ALL TRENCHLESS INSTALLATION SHALL BE CONTINUOUS FOR THE PROPOSED ENTRY/JACKING PIT TO THE PROPOSED EXIT/RECEIVING PIT ON A 24-HOUR BASIS.
17. MEAN HIGH WATER AT HUDSON GENERATING STATION = 2.22' PER INTERPOLATION BETWEEN NOAA TIDAL BENCH MARK STATIONS 0696 A (1975) AND 0772 C (1976).
18. SPRING HIGH WATER LINE (MHW) NEAR HUDSON GENERATING STATION = 4.36' PER TIDAL STATION 11 - HACKENSACK RIVER - OBSERVED - 1983-2001 EPOCH.
19. MEAN LOW LOWER WATER (MLLW) CALCULATED AS -3.95 BASED ON INTERPOLATION OF DEPTHS BETWEEN MHW AND MLLW AT CARLSTADT TIDAL BENCHMARK STATION ID NO. 8530528 AND HACKENSACK TIDAL BENCHMARK STATION ID NO. 8530278.

ABBREVIATIONS:

- AH - AHEAD
- BIT. - BITUMINOUS
- BK - BACK
- B - BASELINE
- BGRA - BEAM GUIDE RAIL ANCHORAGE
- BM - BENCH MARK
- BWL - BROKEN WHITE LINE
- CARSA - RAMP COMMITTING CARS ONLY TO SERVICE AREA
- CCTV - CLOSED CIRCUIT TELEVISION CAMERA
- CD - COLLECTOR/DISTRIBUTOR ROAD
- CL. - CLEAR
- CMP - CORRUGATED METAL PIPE
- CONC. - CONCRETE
- CWL - CHANNELIZING SOLID WHITE LINE
- D - AVERAGE STONE SIZE
- DC - DROP CURB
- DFBGR - DUAL-FACED BEAM GUIDE RAIL
- DIP - DUCTILE IRON PIPE
- DWL - DOTTED WHITE LINE
- E - EAST
- EB - EASTBOUND
- EL./ELEV. - ELEVATION
- ELECT. - ELECTRICAL
- EOP - EDGE OF PAVEMENT
- EXIST. - EXISTING
- EXP. - EXPANSION
- FES - FLARED END SECTION
- FL - FLOW ELEVATION
- FO - FIBER OPTIC
- FGRT - FLARED GUIDE RAIL TERMINAL
- FUT. - FUTURE
- GRND. - GROUND
- HICC - HIGH INTENSITY CONSTRUCTION CYCLE
- HW - HEADWALL
- INV. - INVERT
- L/LT. - LEFT
- LOM - LIMIT OF MILLING
- LOP - LIMIT OF PAVING
- LN. - LANE
- L - LENGTH
- MAX. - MAXIMUM
- MIN. - MINIMUM
- MP - MILE POST
- MPH - MILES PER HOUR
- N - NORTH
- NB - NORTHBOUND
- NESA - FROM NORTH ON EASTERLY TO SERVICE AREA
- NO. - NUMBER
- NSE - FROM NORTH TO SOUTH EASTERLY
- NSW - FROM NORTH TO SOUTH WESTERLY
- NTS - NOT TO SCALE
- NWSA - FROM NORTH ON WESTERLY TO SERVICE AREA
- OH - OVERHEAD
- OC - ON CENTER
- PAVT. - PAVEMENT
- PC - POINT OF CURVATURE
- PCC - POINT OF COMPLEX CURVATURE
- PGL - PROFILE GRADE LINE
- PI - POINT OF INTERSECTION
- POB - POINT OF BEGINNING
- POL - POINT ON LINE
- PROP. - PROPOSED
- PT - POINT OF TANGENCY
- PVC - POINT OF VERTICAL CURVATURE/

ABBREVIATIONS (CONT'D):

- PVRC - POINT OF VERTICAL REVERSE CURVATURE
- PVCC - POINT OF VERTICAL COMPOUND CURVATURE
- PVI - POINT OF VERTICAL INTERSECTION
- PVT - POINT OF VERTICAL TANGENT
- R - RADIUS
- RE - RESIDENT ENGINEER
- RELOC. - RELOCATION
- RCCP/RCP - REINFORCED CONCRETE CULVERT PIPE
- REINF. - REINFORCED
- ROW - RIGHT OF WAY
- RT. - RIGHT
- RW - RETAINING WALL
- S - SOUTH
- SANS - FROM SERVICE AREA TO WEAVE
- SANW - FROM SERVICE AREA TO NORTH WEASTERLY
- SASE - FROM SERVICE AREA TO SOUTH EASTERLY
- SASEW - FROM SERVICE AREA TO DIVERGE OF SASE & SASW
- SASW - FROM SERVICE AREA TO SOUTH WESTERLY
- SB - SOUTHBOUND
- SDWK. - SIDEWALK
- SESA - FROM SOUTH ON EASTERLY TO SERVICE AREA
- SEWSA - FROM MERGE OF SESA & SWSA RAMPS TO SERVICE AREA
- SH./SHLDR. - SHOULDER
- SNE - FROM SOUTH TO NORTH EASTERLY
- SNW - FROM SOUTH TO NORTH WESTERLY
- STA. - STATION
- SURF. - SURFACE
- SWL - SOLID WHITE LINE
- SYL - SOLID YELLOW LINE
- TAN. - TANGENT
- TBA - TO BE ABANDONED
- TBR - TO BE REMOVED
- TE - FROM TOLL TO EAST
- TEMP. - TEMPORARY
- TG - TOP OF GRATE
- TH. - THICKNESS
- TGRT - TANGENT GUIDE RAIL
- TRSA - RAMP COMMITTING TRUCKS ONLY TO SERVICE AREA
- TSD - TEMPORARY SLOPE DRAIN
- TTS - TEMPORARY TRAFFIC
- TYP. - TYPICAL
- UND. - UNDERDRAIN
- VAR. - VARIES
- VERT. - VERTICAL
- W - WEST
- WEAVE - INTERNAL RAMP MERGE VINCE LOMBARDI
- X' - FEET
- XBL - EXPRESS BUS LANE
- X" - INCHES

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

GENERAL NOTES AND ABBREVIATIONS -1-

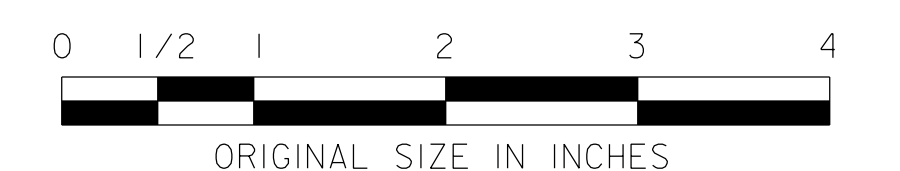
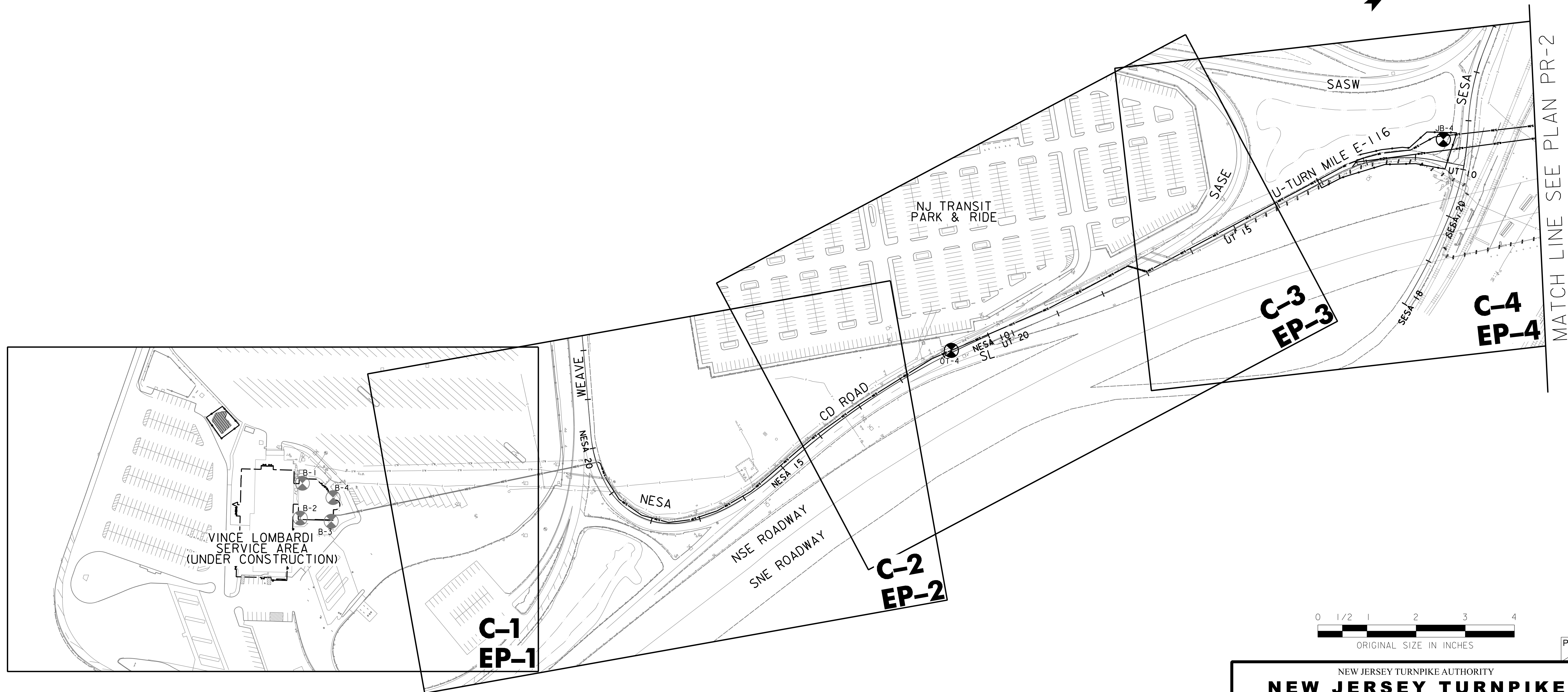
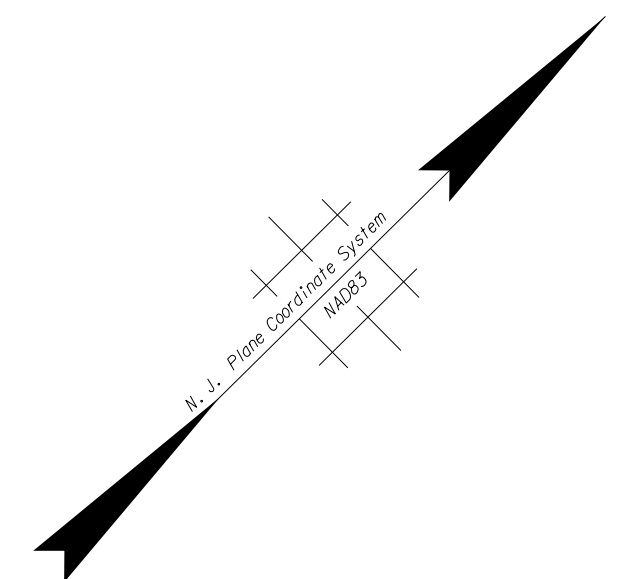
Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: NONE
 DATE: MAY 2020

3
25

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

GN-1
GN-1



PR-1
PR-2

LEGEND

- C = CONSTRUCTION PLANS
- EP = ENVIRONMENTAL & SOIL EROSION AND SEDIMENT CONTROL PLANS
- ⊙ = PROPOSED BORING LOCATION
- ⊗ = EXISTING BORING LOCATION

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

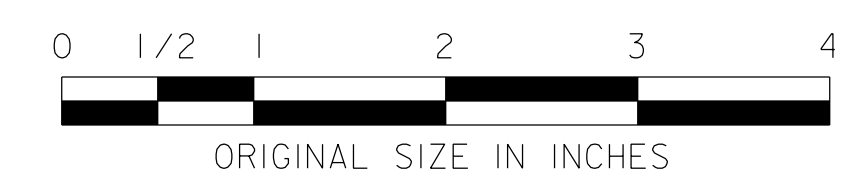
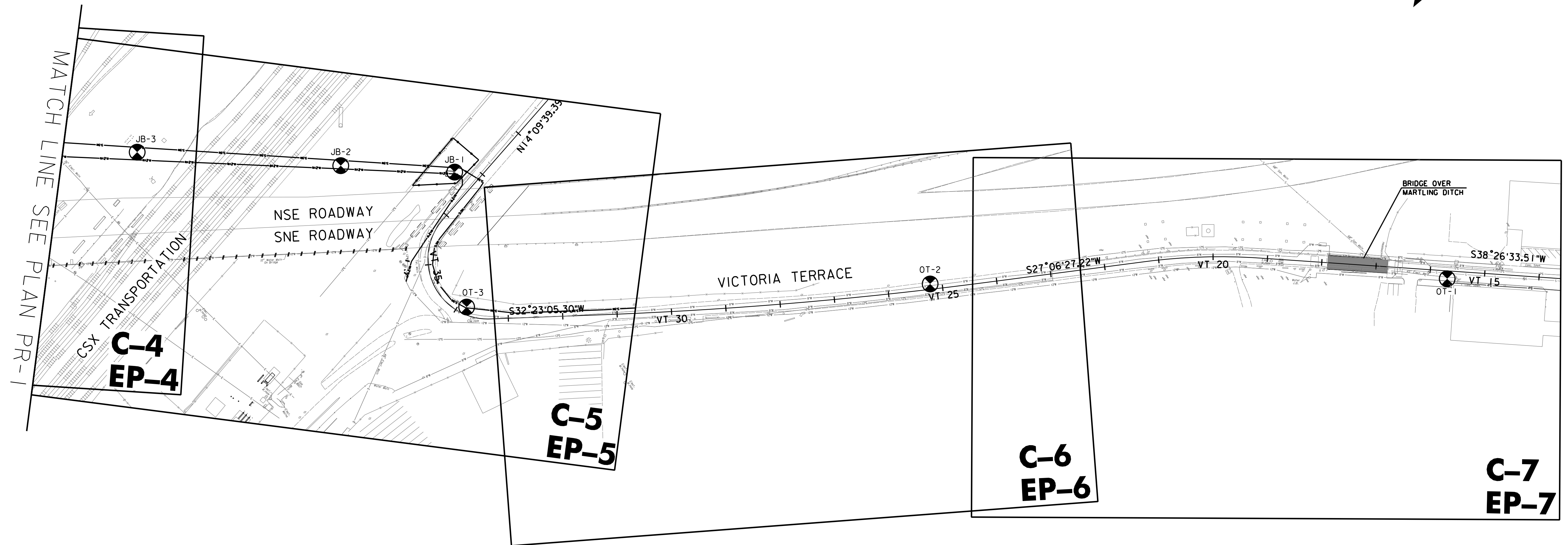
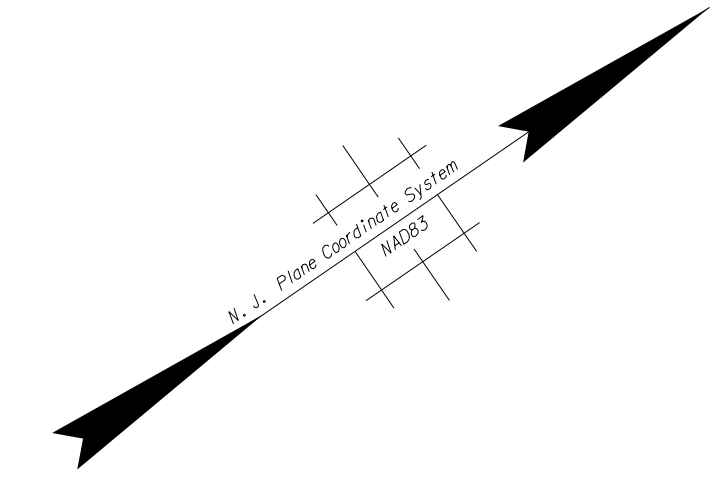
NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

PLAN REFERENCE AND BORING
LOCATION SHEET -1-

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07662
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 100'
DATE: MAY 2020



PR-2
PR-2

LEGEND

- C = CONSTRUCTION PLANS
- EP = ENVIRONMENTAL & SOIL EROSION AND SEDIMENT CONTROL PLANS
- ⊗ = PROPOSED BORING LOCATION
- ⊗ = EXISTING BORING LOCATION
- JB-x / OT-x
- B-x

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

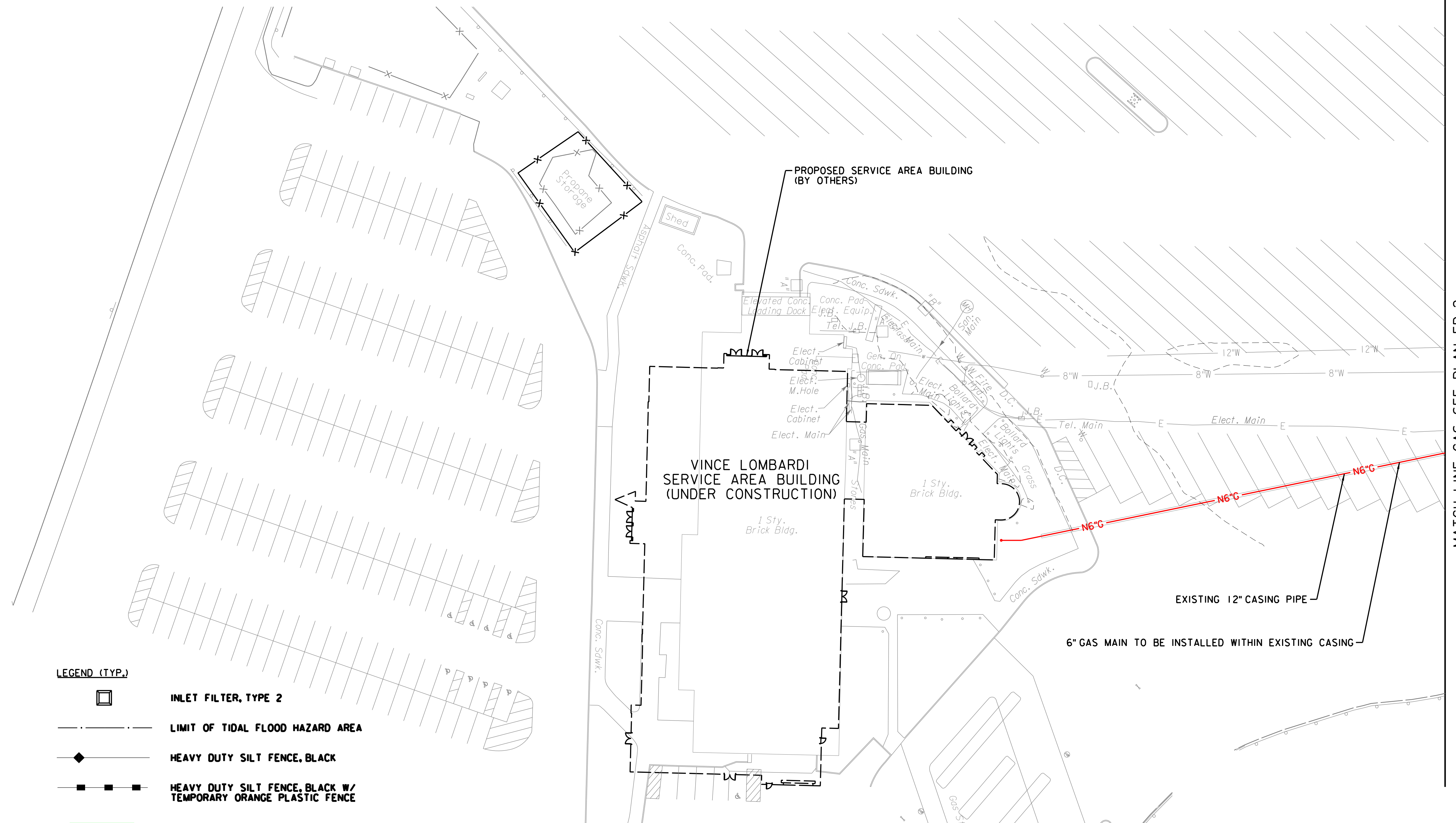
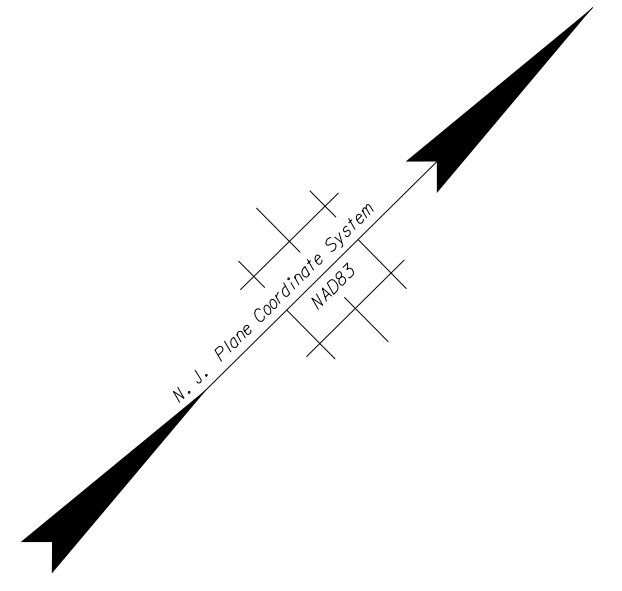
PLAN REFERENCE AND BORING
 LOCATION SHEET -2-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07662
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600


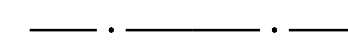
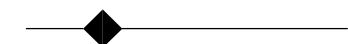

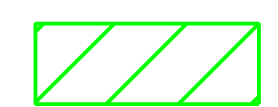






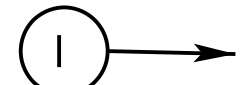

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 100'
 DATE: MAY 2020

5
25

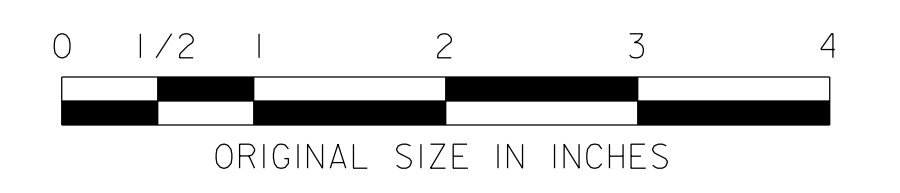


MATCH LINE GAS SEE PLAN EP-2

- LEGEND (TYP.)**
-  INLET FILTER, TYPE 2
 -  LIMIT OF TIDAL FLOOD HAZARD AREA
 -  HEAVY DUTY SILT FENCE, BLACK
 -  HEAVY DUTY SILT FENCE, BLACK W/
TEMPORARY ORANGE PLASTIC FENCE
 -  TEMPORARY UPLAND DISTURBANCE (OPEN TRENCH)
 -  STORMWATER RETENTION BASIN
 -  OPEN WATER DITCH TOP OF BANK
 -  TIDAL OPEN WATER TOP OF BANK
 -  TIDAL WETLAND LIMIT
 -  MEAN HIGH WATER ELEVATION (EL. 2.22)
 -  SPRING HIGH WATER ELEVATION (EL. 4.36)
 -  PHOTOGRAPH LOCATION AND DIRECTION
(TAKEN 9/3/19 BETWEEN 10AM-1PM)
 -  LIMIT OF DISTURBANCE LINE

SUMMARY TABLE		
SHEET #	AREA OF DISTURBANCE (SF)	
	PERMANENT	TEMPORARY
EP-1	0	0
EP-2	0	1988
EP-3	0	2402
EP-4	0	9293
EP-5	0	7726
EP-6	0	2520
EP-7	0	2011
TOTALS	0	25940

NO REGULATED DISTURBANCES THIS SHEET



	BY	DATE
MADE:	KK	03-2020
TRACED:	SK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.
1.	LEGEND - SPRING HIGH WATER ELEVATION	04/22/20	SF	JS

NEW JERSEY TURNPIKE AUTHORITY

NEW JERSEY TURNPIKE

WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

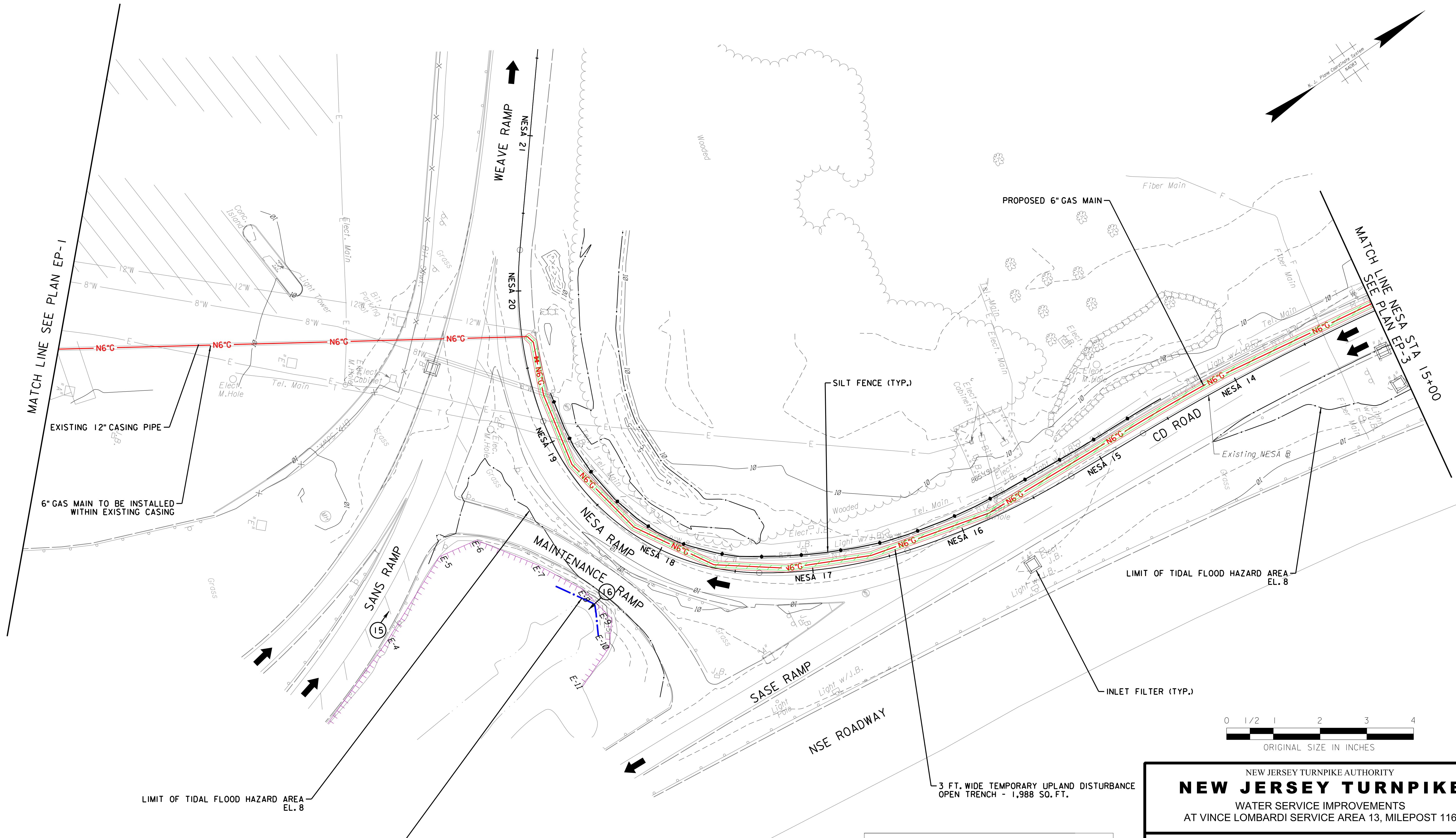
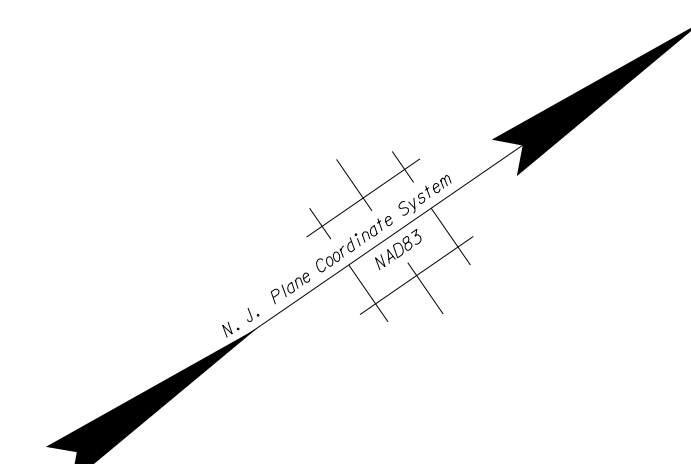
ENVIRONMENTAL & SOIL EROSION AND
SEDIMENT CONTROL PLAN -1-

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07862
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: 1" = 30'
DATE: MAY 2020

6
25

RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300



MATCH LINE SEE PLAN EP-1

MATCH LINE NESA STA 15+00 SEE PLAN EP-3

EXISTING 12" CASING PIPE
6" GAS MAIN TO BE INSTALLED WITHIN EXISTING CASING

LIMIT OF TIDAL FLOOD HAZARD AREA EL. 8

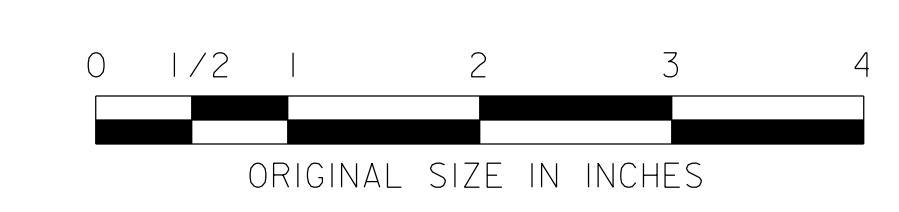
MEAN HIGH WATER EL. 2.22

SILT FENCE (TYP.)

LIMIT OF TIDAL FLOOD HAZARD AREA EL. 8

INLET FILTER (TYP.)

3 FT. WIDE TEMPORARY UPLAND DISTURBANCE OPEN TRENCH - 1,988 SQ. FT.



NO REGULATED DISTURBANCES THIS SHEET

	BY	DATE
MADE:	KK	03-2020
TRACED:	SK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
 SEDIMENT CONTROL PLAN -2-

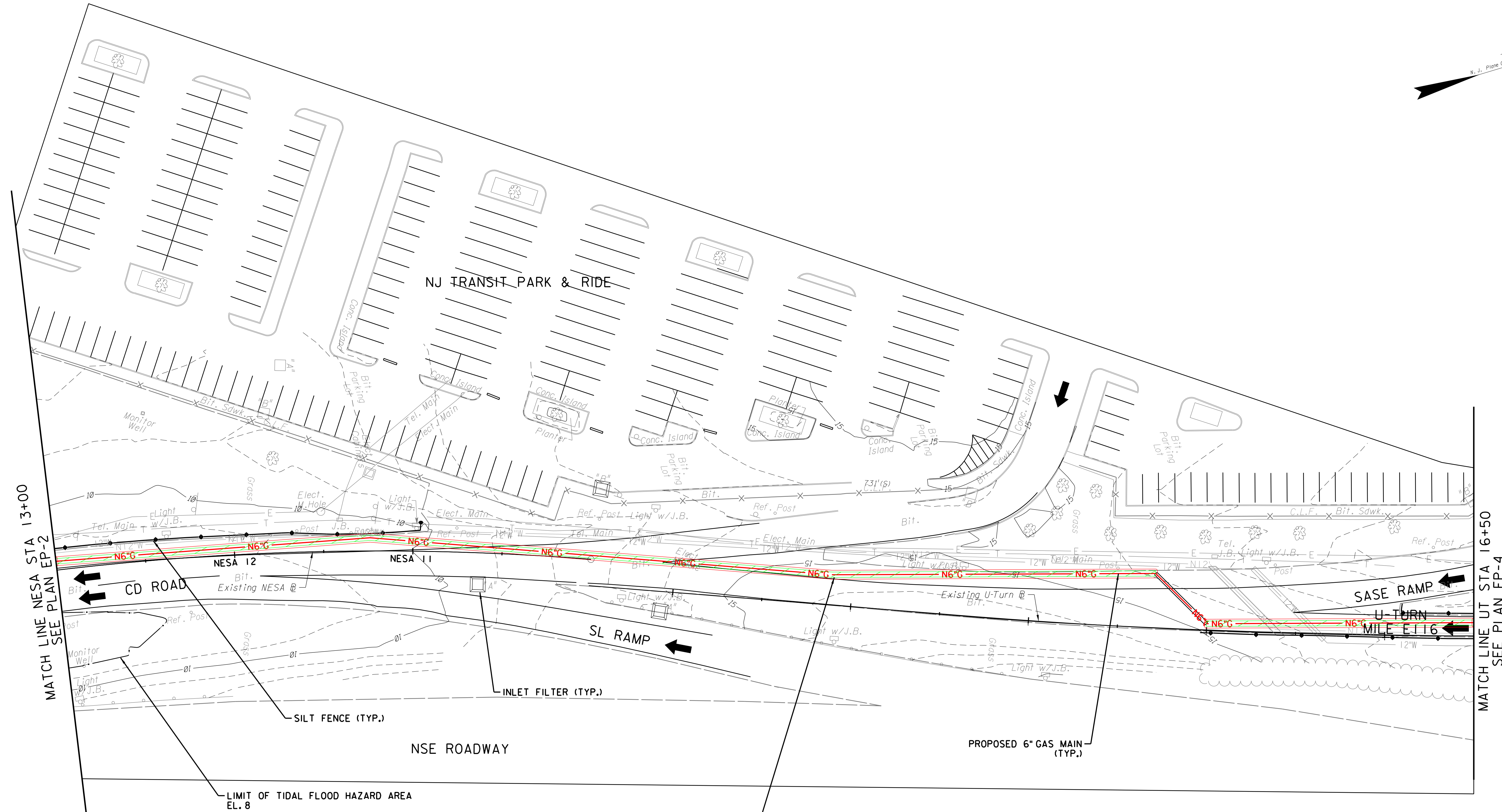
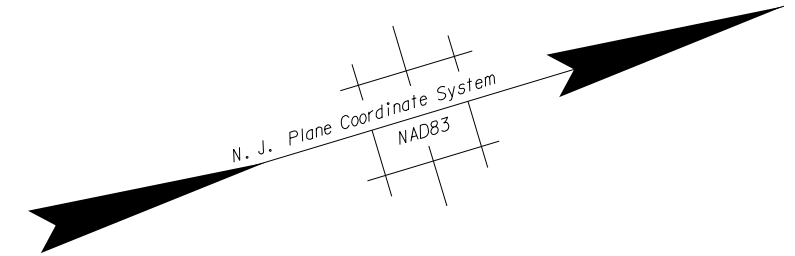
Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

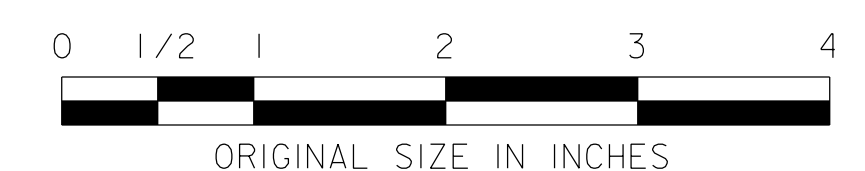
7
25

EP-2
EP-9



MATCH LINE NESA STA 13+00
SEE PLAN EP-2

MATCH LINE UT STA 16+50
SEE PLAN EP-4



EP-3
EP-9

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
 SEDIMENT CONTROL PLAN -3-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

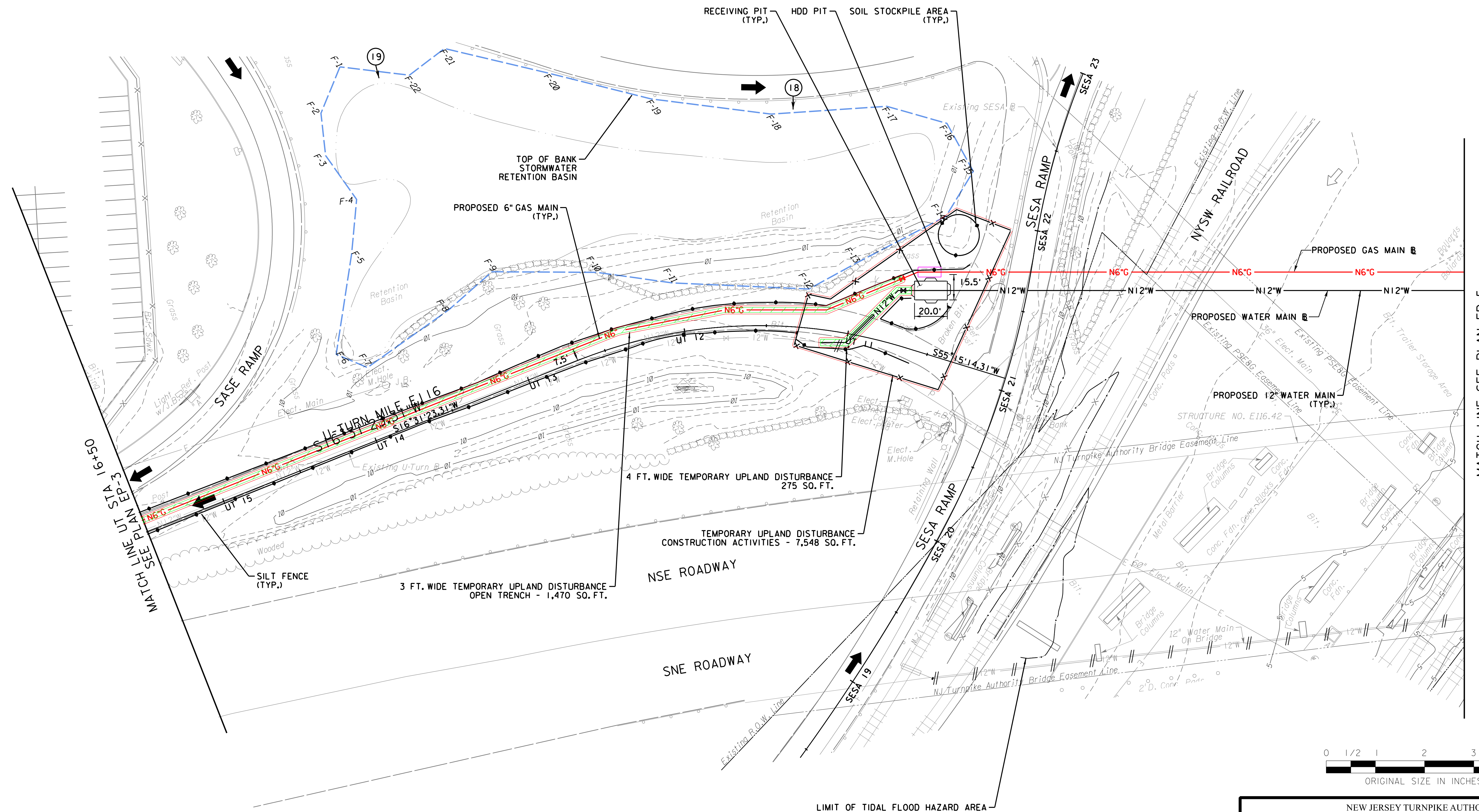
SCALE: 1" = 30'
 DATE: MAY 2020

3 FT. WIDE TEMPORARY UPLAND DISTURBANCE
OPEN TRENCH - 2,402 SQ. FT.

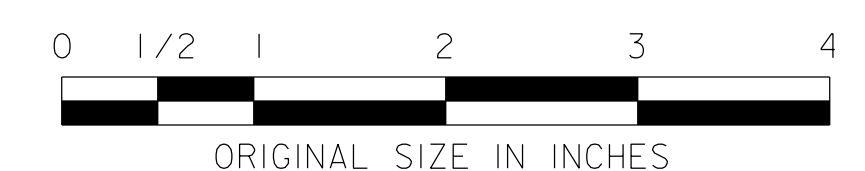
NO REGULATED DISTURBANCES THIS SHEET

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.



MATCH LINE SEE PLAN EP-5



EP-4
EP-9

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
 SEDIMENT CONTROL PLAN -4-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

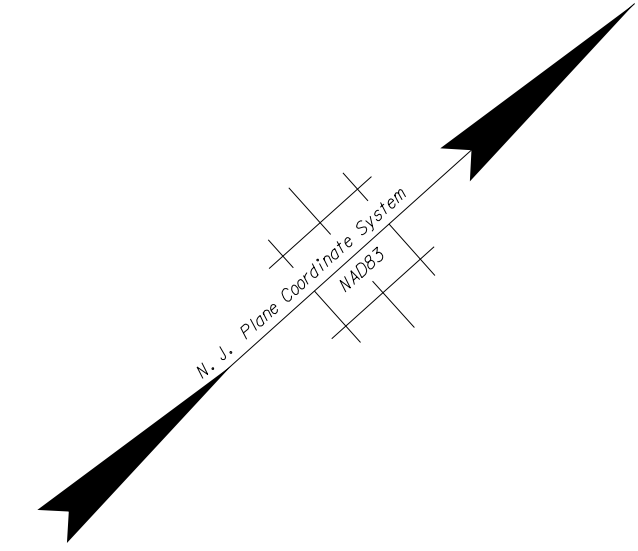
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

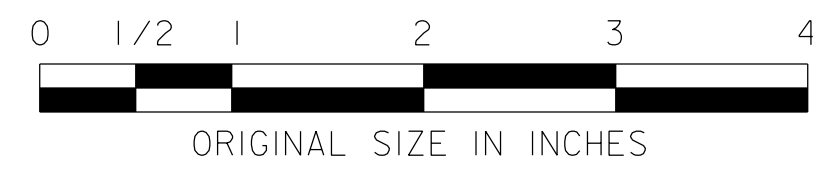
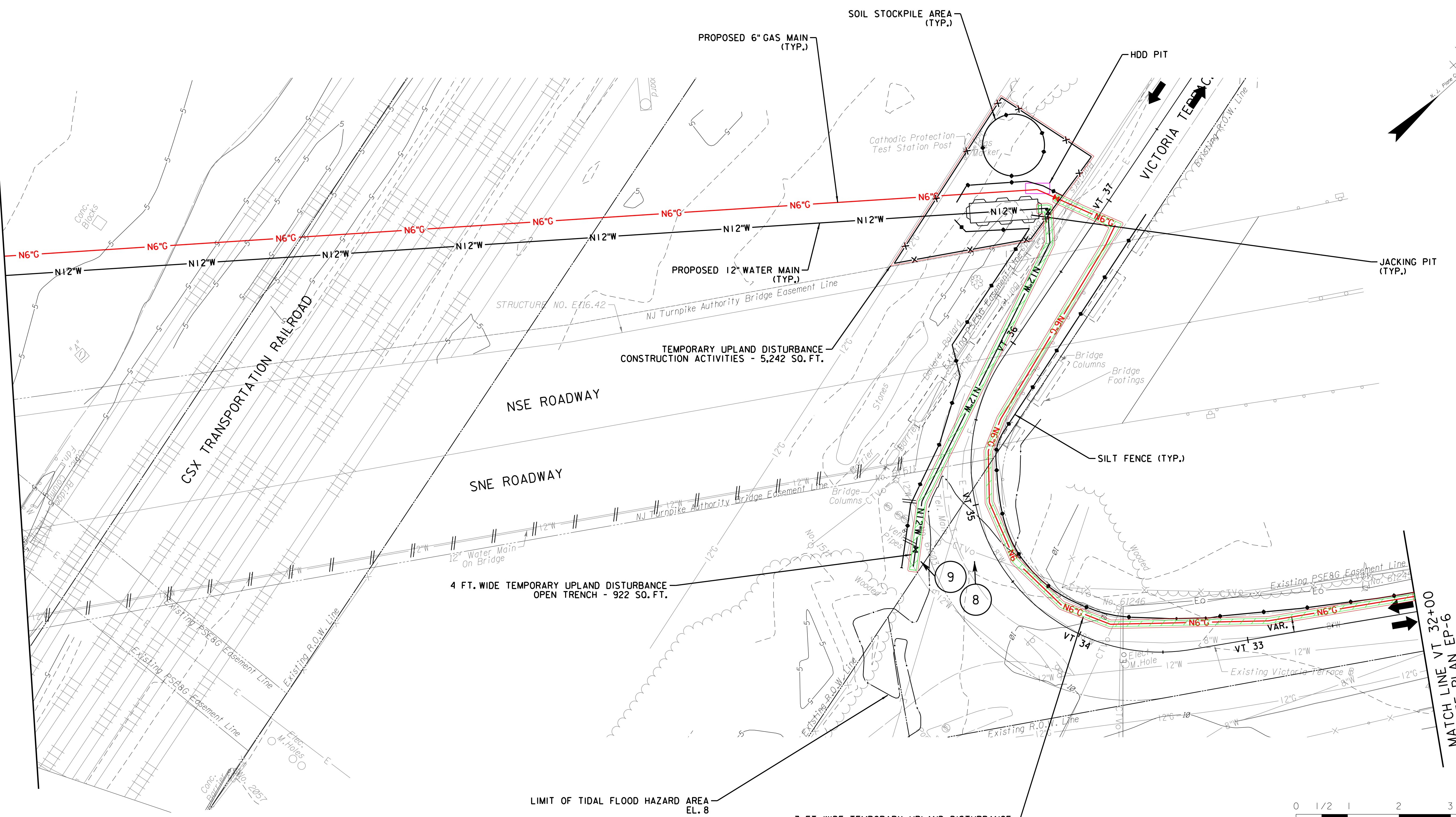
NO REGULATED DISTURBANCES THIS SHEET

	BY	DATE
MADE:	KK	03-2020
TRACED:	SF	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.



MATCH LINE SEE PLAN EP-4



EP-5
EP-9

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
 SEDIMENT CONTROL PLAN -5-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

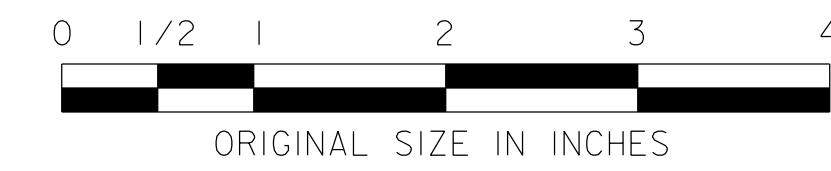
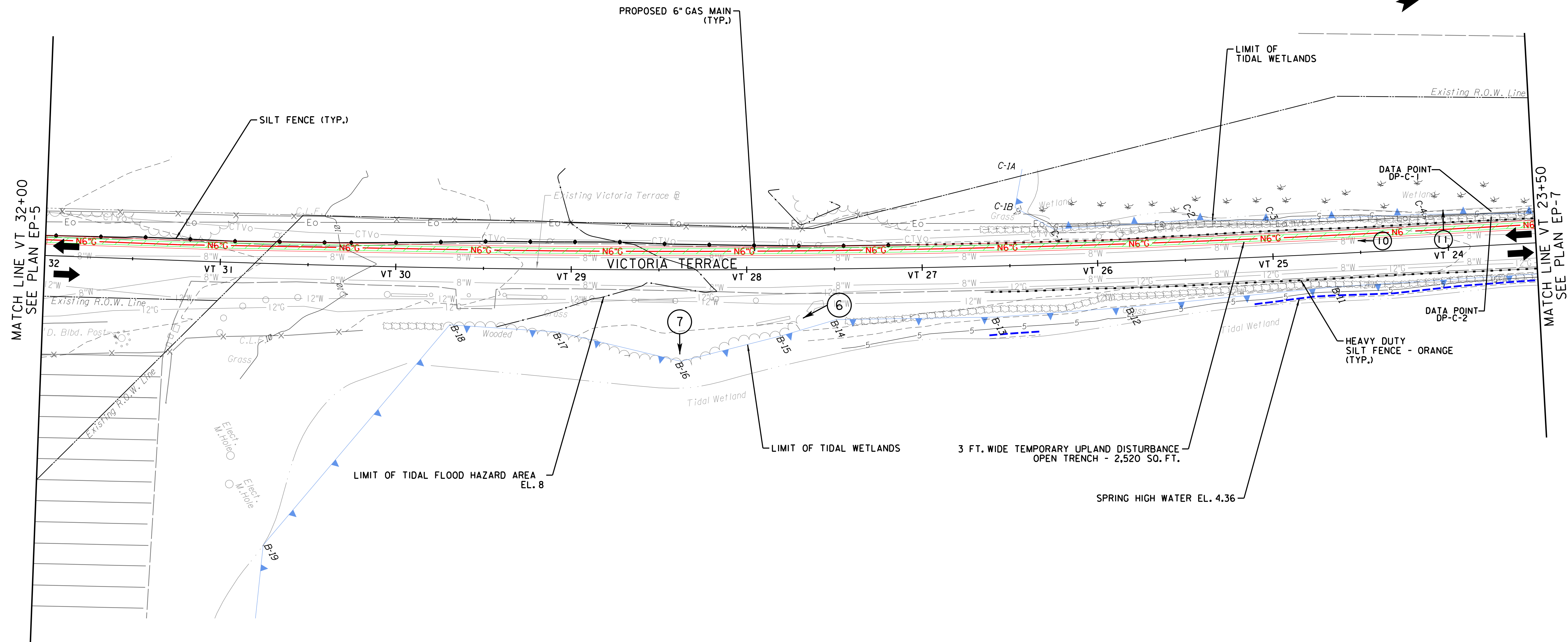
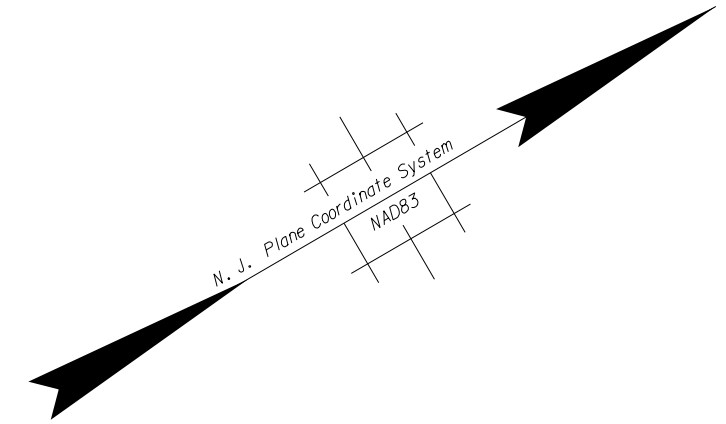
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

NO REGULATED DISTURBANCES THIS SHEET

BY	DATE
MADE: KK	03-2020
TRACED: SF	03-2020
CHECKED: JS	03-2020
SUPERVISED: RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.



EP-6
EP-9

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
 SEDIMENT CONTROL PLAN -6-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07662
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

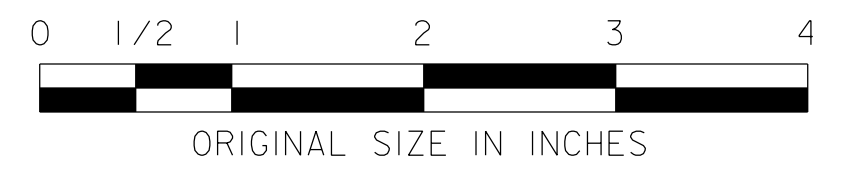
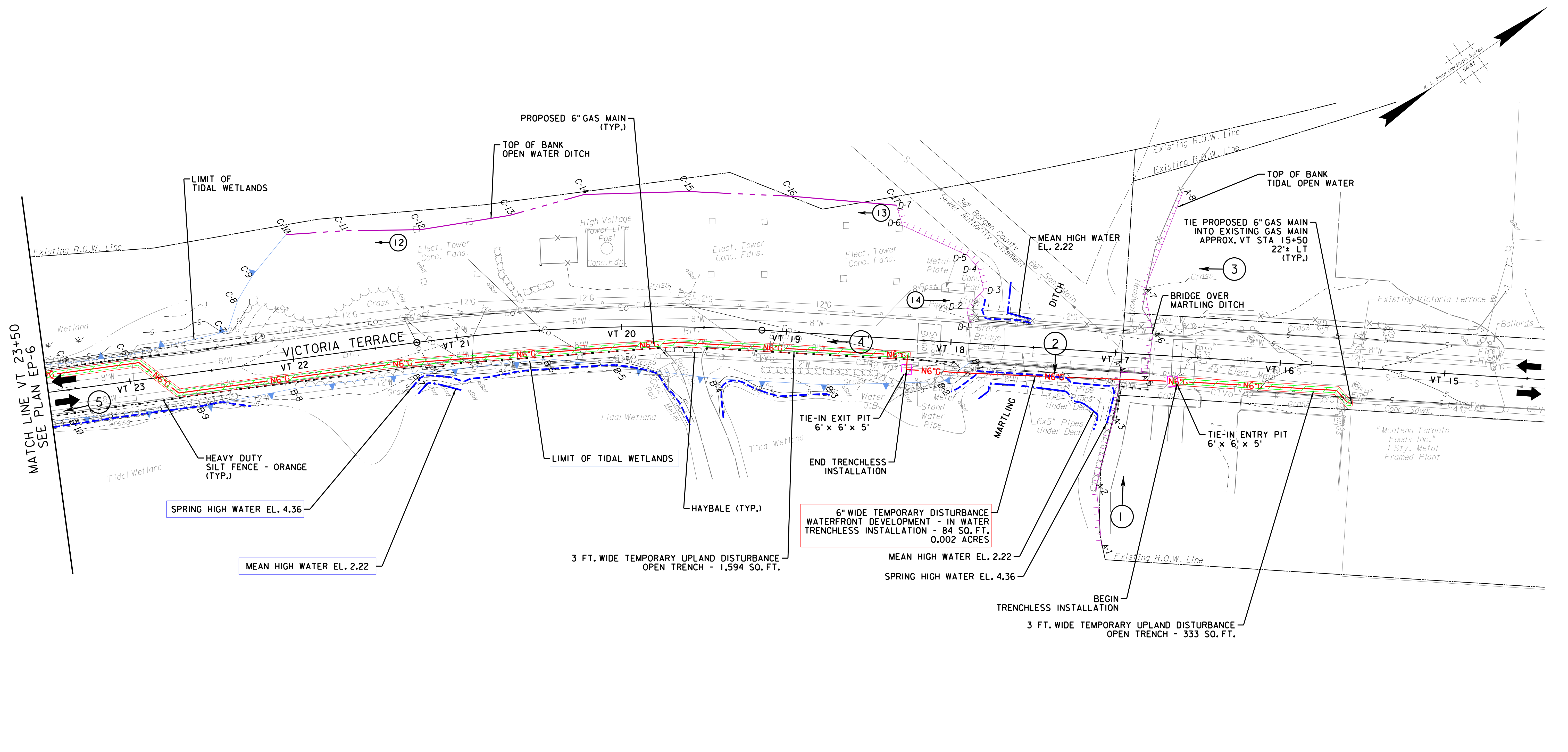
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

NO REGULATED DISTURBANCES THIS SHEET

REV.	DESCRIPTION	DATE	BY	CHK.
1.	SPRING HIGH WATER ELEVATION	04/22/20	SF	JS

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	



REGULATED DISTURBANCE:
TRENCHLESS INSTALLATION OF 6" GAS MAIN VIA
HORIZONTAL DIRECTIONAL DRILLING BENEATH
MARTLING DITCH (TRIBUTARY TO BELLMAN'S CREEK)

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

ENVIRONMENTAL & SOIL EROSION AND
SEDIMENT CONTROL PLAN -7-

	BY	DATE
MADE:	KK	03-2020
TRACED:	SK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.
1.	SPRING HIGH WATER ELEVATION	04/22/20	SF	JS

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07862
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
DATE: MAY 2020

EP-7
EP-9

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (NJ STANDARDS), AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND MULCHING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH UNROTTED STRAW AT A RATE OF 2 TONS PER ACRE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
- STABILIZATION SPECIFICATIONS:
 - TEMPORARY SEEDING AND MULCHING:
GROUND LIMESTONE - APPLIED UNIFORMLY ACCORDING TO SOIL TEST RECOMMENDATIONS.
FERTILIZER - APPLY 11LBS./1,000 SF OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN (UNLESS A SOIL TEST INDICATES OTHERWISE) WORKED INTO THE SOIL A MINIMUM OF 4".
SEED - PERENNIAL RYEGRASS 100 LBS./ACRE (2.3 LBS./1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
MULCH - UNROTTED STRAW OR HAY AT A RATE OF 70 TO 90 LBS./1,000 SF APPLIED TO ACHIEVE 95% SOIL SURFACE COVERAGE. MULCH SHALL BE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 - PERMANENT SEEDING AND MULCHING:
TOPSOIL - A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5", MINIMUM OF 4" FIRMED IN PLACE IS REQUIRED.
GROUND LIMESTONE - APPLIED UNIFORMLY ACCORDING TO OIL TEST RECOMMENDATIONS.
FERTILIZER - APPLY 11 LBS./1,000 SF OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN (UNLESS A SOIL TEST INDICATES OTHERWISE) WORKED INTO THE SOIL A MINIMUM OF 4".
SEED - TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS) 350 LBS./ACRE (8 LBS./1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND OCTOBER 1.
(SUMMER SEEDING REQUIRES IRRIGATION)
MULCH - UNROTTED STRAW OR HAY AT A RATE OF 70 TO 90 LBS./1,000 SF APPLIED TO ACHIEVE 95% SOIL SURFACE COVERAGE. MULCH SHALL BE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAYBALE SEDIMENT BARRIER OR SILT FENCE.
- A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2.5" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- DRIVEWAYS MUST BE STABILIZED WITH 1" - 2.5" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH SECTION 28-1 OF THE NJ STANDARDS.

- STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH SECTION 14-1 OF THE NJ STANDARDS.
- DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH SECTION 16-1 OF THE NJ STANDARDS.
- TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH SECTION 9-1 OF THE NJ STANDARDS.
- THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
- THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE; BERGEN COUNTY SCD, 700 KINDERKAMACK ROAD, SUITE 106, ORADELL, NJ 07649. TEL: 201-261-4407; FAX 201-261-7573.
- THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.
- THE OWNER MUST OBTAIN A DISTRICT ISSUED REPORT OF COMPLIANCE PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY. THE DISTRICT REQUIRES AT LEAST ONE WEEK'S NOTICE TO FACILITATE THE SCHEDULING OF ALL REPORT OF COMPLIANCE INSPECTIONS. ALL SITE WORK MUST BE COMPLETED, INCLUDING TEMPORARY/PERMANENT STABILIZATION OF ALL EXPOSED AREAS, PRIOR TO THE ISSUANCE OF A REPORT OF COMPLIANCE BY THE DISTRICT.

SEQUENCE OF CONSTRUCTION

- ESTABLISH SOIL EROSION AND CONTROL MEASURES.
- INSTALL GAS LINE VIA TRENCHLESS INSTALLATION BENEATH BELLMAN'S CREEK TRIBUTARY.
- INSTALL GAS LINE BENEATH AND ALONG VICTORIA AVENUE.
- INSTALL GAS AND WATER LINE VIA JACK AND BORE BENEATH RAILWAY.
- CONSTRUCT IMPROVEMENTS AT VINCE LOMBARDI SERVICE AREA AND PARK AND RIDE.
- FINAL CLEAN UP.

ENVIRONMENTAL NOTES

- RAW OR UNSET CONCRETE SHALL NOT COME IN CONTACT WITH ANY SURFACE WATER ON-SITE, SINCE SUCH CONTACT CAN BE TOXIC TO AQUATIC BIOTA.
- ALL EXCAVATED MATERIAL, IF NECESSARY, SHALL BE TEMPORARILY STOCKPILED WITHIN AN APPROVED AREA OR BE DISPOSED OF IN A LAWFUL MANNER OUTSIDE OF ANY FLOOD HAZARD AREA, RIPARIAN ZONE, OPEN WATER, FRESHWATER WETLANDS AND TRANSITION AREAS, AND IN SUCH A WAY AS TO NOT INTERFERE WITH THE POSITIVE DRAINAGE OF THE RECEIVING AREA. CONSTRUCTION EQUIPMENT SHALL NOT BE STORED, STAGED OR DRIVEN WITHIN ANY CHANNEL.
- FRESHWATER WETLAND OR TRANSITION AREAS SHALL NOT BE IMPACTED UNLESS EXPRESSLY APPROVED BY THE APPROVED PERMIT AND/OR DESCRIBED ON THE APPROVED PLANS. NO STORAGE OF CHEMICALS, OIL, FUEL OR REFUELING OF EQUIPMENT SHALL OCCUR WITHIN ANY OF THESE AREAS TO CONSTRUCT THE PROPOSED IMPROVEMENTS.
- ALL SEEDED AREAS SHALL ACHIEVE 85% AERIAL COVERAGE BY THE END OF THE FIRST GROWING SEASON FOLLOWING THE END OF CONSTRUCTION ACTIVITIES. PLANTED TREES AND SHRUBS SHALL ACHIEVE 85% SURVIVAL BY THE END OF THE SECOND GROWING SEASON.
- ANY DISCHARGE OF DREDGED OR FILL MATERIAL SHALL CONSIST OF CLEAN, SUITABLE, MATERIAL FREE FROM TOXIC POLLUTANTS (SEE 40 CFR 401) IN TOXIC AMOUNTS, AND SHALL COMPLY WITH ALL APPLICABLE DEPARTMENT RULES AND SPECIFICATIONS REGARDING USE OF DREDGED OR FILL MATERIALS.
- PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH NEW JERSEY FRESHWATER WETLANDS PROTECTION ACT RULES AT NJAC 7:7A-1.1 ET. SEQ. AND NEW JERSEY COASTAL ZONE MANAGEMENT RULES AT NJAC 7:7 ET. SEQ.
- FLOOD HAZARD AREA LIMITS (TIDAL) FOR HACKENSACK RIVER AND TRIBUTARIES DETERMINED USING FHACA METHOD 2 (FEMA TIDAL METHOD). FHA ELEVATION DATA OBTAINED FROM FEMA FLOOD INSURANCE RATE MAP NO. 34003C0259H, REV. AUGUST 28, 2019.
- MEAN HIGH WATER AT HUDSON GENERATING STATION = 2.22' PER INTERPOLATION BETWEEN CARLSTADT TIDAL BENCHMARK STATION ID# 8530528 AND HACKENSACK TIDAL STATION BENCHMARK STATION ID# 8530278.
- WEIGHTED SEDIMENT TUBES SHALL BE INSTALLED AROUND THE PERIMETER OF THE LAUNCHING AND RECEIVING PITS TO CONTAIN DIRECTIONAL DRILLING FLUIDS.

SOIL COMPACTION EXEMPTION NOTE

SOILS WILL BE REQUIRED TO SUPPORT POST-CONSTRUCTION VEHICULAR TRAFFIC LOADS. IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (REVISED 2017), THE PROJECT DOES NOT REQUIRE COMPACTION REMEDIATION.

SEEDING TABLE			
PURITY GRASS SEED MIXTURE	MINIMUM GERMINATION PERCENT	MINIMUM TOTAL WEIGHT PERCENT	PERCENT OF MIXTURE
TYPE "A"			
KENTUCKY BLUE GRASS (AMERICAN, MERIT)	98	85	25
CREeping RED FESCUE	97	85	25
TALL TURF-TYPE FESCUE (HOUNDDOG, MUSTANG, K-31)	95	90	25
FINE TEXTURED PERENNIAL RYE GRASS (FIESTA, PREMIER)	95	90	25
TYPE "B"			
TALL TURF-TYPE FESCUE (HOUNDDOG, MUSTANG, K-31)	95	90	75
PERENNIAL RYE GRASS (LINN)	95	90	25

SOIL EROSION AND SEDIMENT CONTROL NOTES

- STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT LOCATIONS AS SPECIFIED BY ON-SITE ENGINEER OR S.C.D. REPRESENTATIVE. WORK TO TAKE PLACE OFF EXISTING ROADWAYS.
- THE BASE OF ALL STOCKPILES SHALL BE PROTECTED AS PER SPECIFICATIONS (SEE STOCKPILE STABILIZATION DETAIL).
- ALL DISTURBED VEGETATIVE SURFACE AREAS, INCLUDING STAGING AND STOCKPILING AREAS, SHALL BE STABILIZED WITH SEED, FERTILIZER, LIMESTONE, AND MULCH UPON COMPLETION OF CONSTRUCTION. SEED SPECIFICATIONS ARE SHOWN ON THE SEEDING TABLE.

PERMANENT STABILIZATION SPECIFICATIONS

- APPLY TOPSOIL TO A DEPTH OF 5" UNSETTLED.
- APPLY GROUND LIMESTONE AT A RATE OF 90 LBS./1000 S.F.
- APPLY FERTILIZER IN ACCORDANCE WITH THE FERTILIZER APPLICATION TABLE.
- APPLY PERMANENT SEED MIXTURE (SEEDING, TYPE A; SEEDING, TYPE P) AT A RATE OF 175 LBS. PER ACRE. REFER TO SEEDING TABLE FOR SEED SPECIES. SEEDING, TYPE "A" WILL BE USED ON PERMANENT SLOPES FLATTER THAN 3H:1V. SEEDING, TYPE "P" WILL BE USED ON SLOPES 3H:1V AND STEEPER, WHEREVER SEEDING, TYPE "P" IS USED, SOIL STABILIZATION MATTING WILL BE INSTALLED.
- MULCH WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, AND APPLY AT A RATE OF 90 LBS./1,000 S.F. ACCORDING TO THE N.J. STANDARDS.
- ANCHOR MULCH WITH EMULSIFIED ASPHALT APPLIED AT A RATE OF 194 GAL./ACRE. OTHER APPROVED METHODS MAY BE USED (I.E. SYNTHETIC PLASTIC EMULSION, OR VEGETABLE BASED GELS, ACCORDING TO THE NEW JERSEY TURNPIKE AUTHORITY STANDARD SPECIFICATIONS, SECTION 704 FOR SEEDING AND SODDING.) IF POSSIBLE, PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
- WHEN TOPSOIL HAS LESS THAN 5.8 pH VALUE, APPLY PULVERIZED LIMESTONE AT A RATE NECESSARY TO ATTAIN A 6.5 pH VALUE IN ACCORDANCE WITH THE NEW JERSEY TURNPIKE AUTHORITY STANDARD SPECIFICATION, SECTION 704 FOR SEEDING AND SODDING.
- IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SURFACE SHALL BE SCARIFIED 6 TO 12 INCHES WHERE THERE IS SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND STRUCTURES OR UTILITIES.

	BY	DATE
MADE:	KK	10-2019
TRACED:	SF	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY

NEW JERSEY TURNPIKE

WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

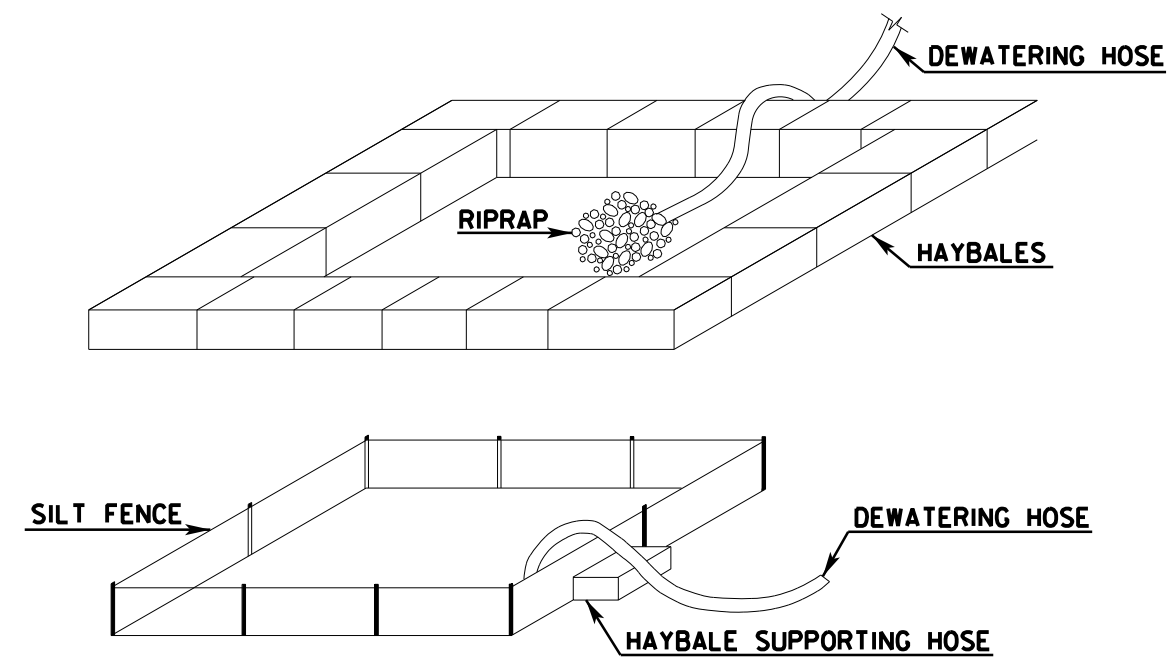
ENVIRONMENTAL & SOIL EROSION AND
SEDIMENT CONTROL NOTES

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07862
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: NONE
DATE: MAY 2020

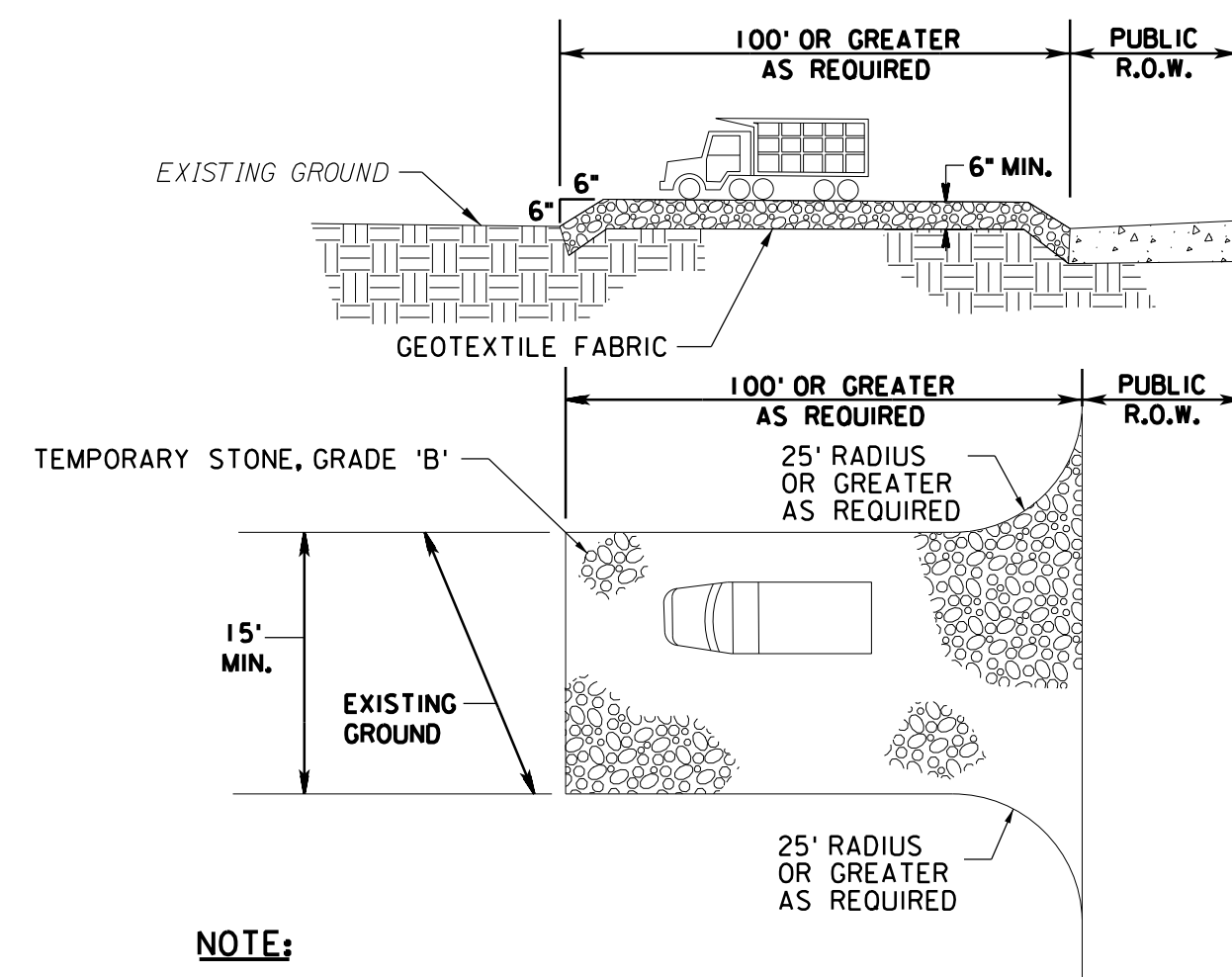
EP-8
EP-9



TEMPORARY SETTLING BASIN
N.T.S.

TEMPORARY SETTLING BASIN NOTES:

1. SILT FENCE/HAYBALES MUST BE TRENCHED.
2. DEWATERING HOSE MUST BE ANCHORED TO HAYBALE.
3. DIMENSIONS OF CONTAINMENT AREA TO VARY ACCORDING TO FLOW RATE OF PUMP USED AND VOLUME DEWATERED.
4. PLACE RIPRAP AT POINT OF DISCHARGE TO PREVENT SCOUR.

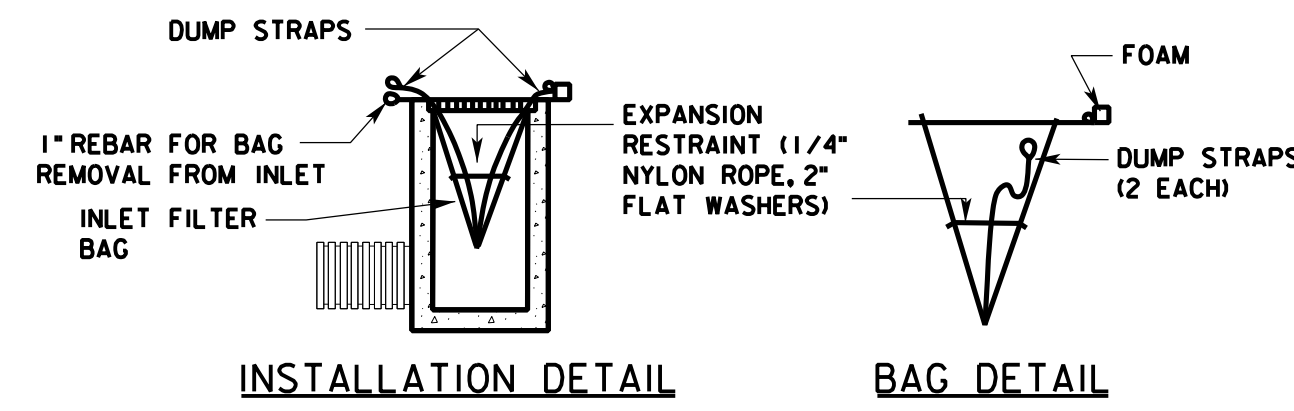


NOTE:

PROVIDE TRANSITION BETWEEN THE STABILIZED CONSTRUCTION ENTRANCE AND THE PUBLIC RIGHT OF WAY.

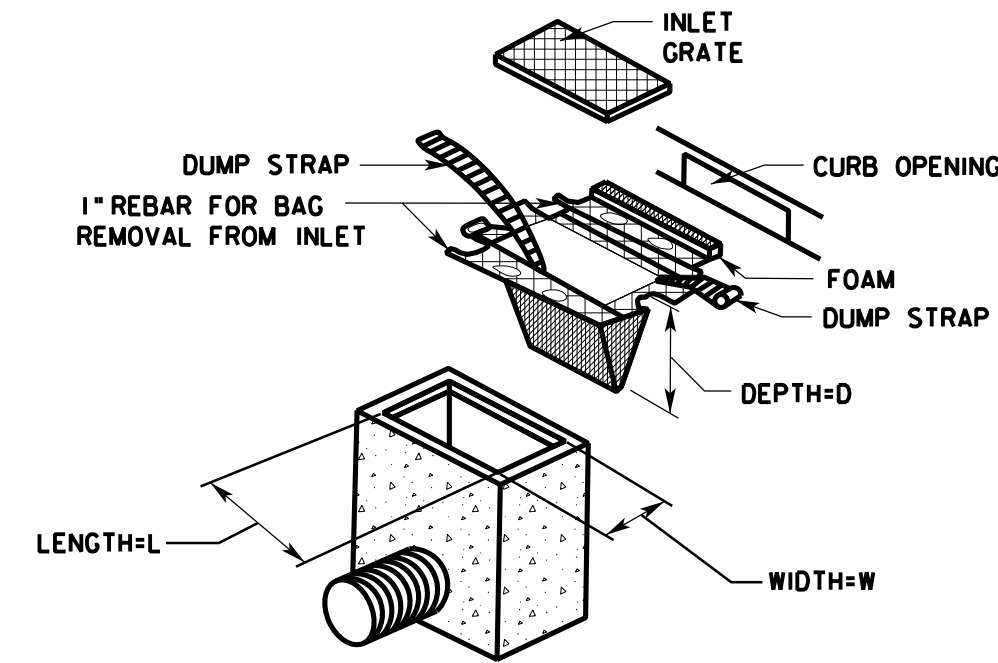
PROFILE AND PLAN VIEW

STABILIZED CONSTRUCTION DRIVEWAY
N.T.S.

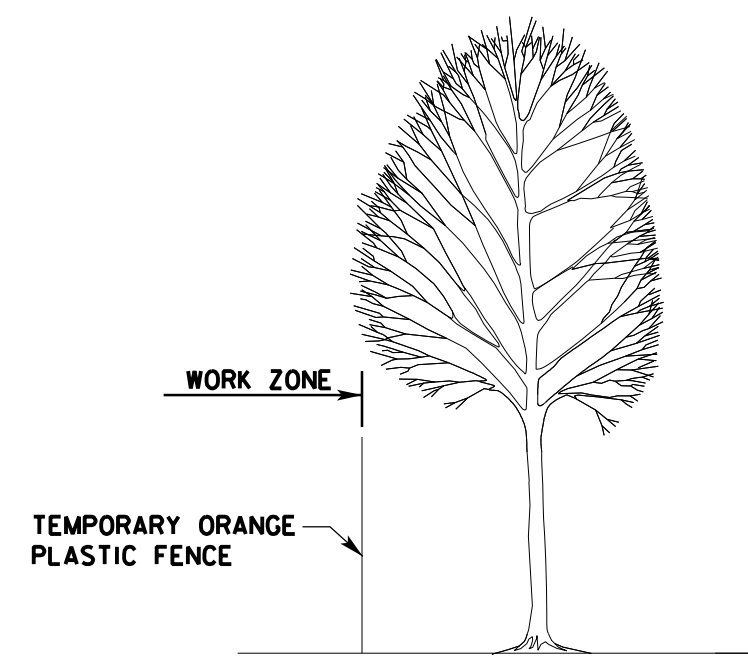


INSTALLATION DETAIL

BAG DETAIL



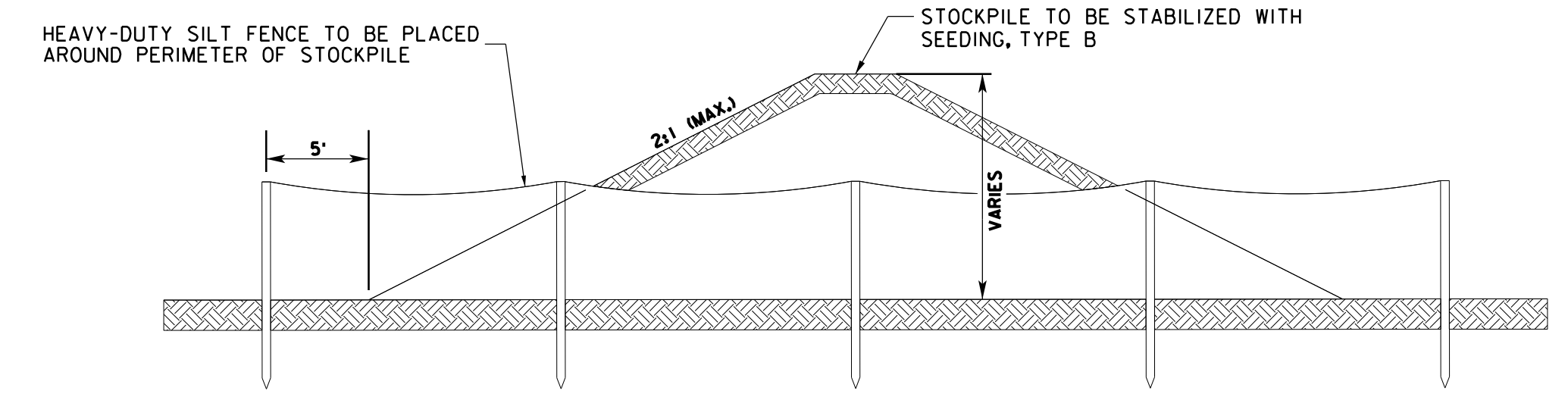
INLET FILTERS, TYPE 2
N.T.S.



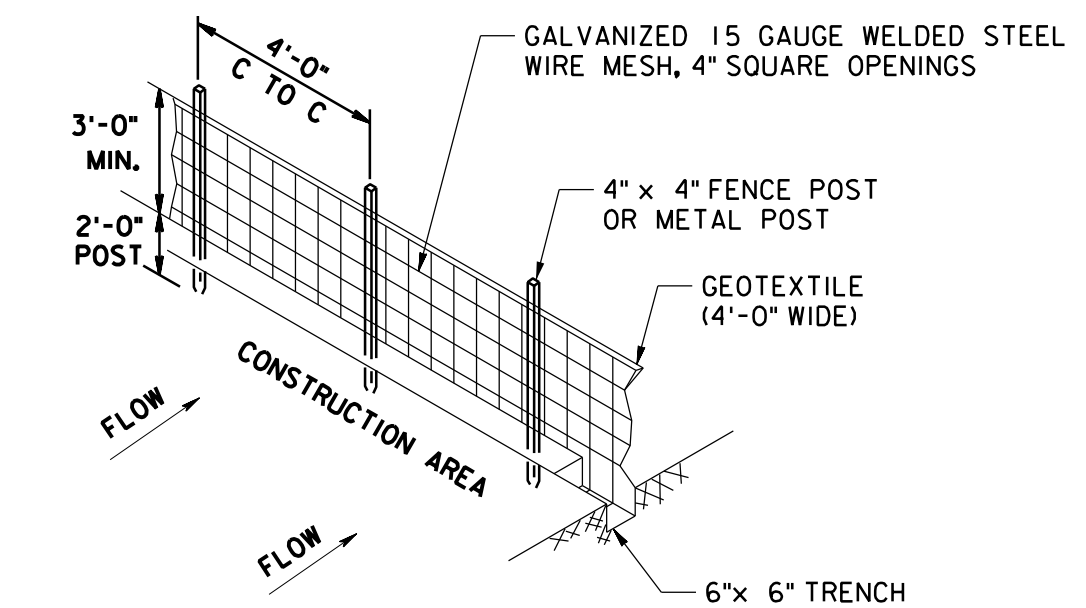
NOTE:

PLACE FENCE A MINIMUM OF 1'-0" OUTSIDE DRIP LINE OF EXISTING TREE.

TREE PROTECTION DETAIL
N.T.S.



TYPICAL STOCKPILE DETAIL
N.T.S.



NOTE:

1. GEOTEXTILE TO BE FASTENED SECURELY TO WIRE MESH AND FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 3 FASTENERS PER POST.
2. BURY BOTTOM 1'-0" OF GEOTEXTILE AND TAMP IN PLACE.
3. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE SHALL BE SECURELY FASTENED TO A COMMON POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
4. PROVIDE AT LEAST 5" OF EMBEDMENT FOR POSTS INSTALLED WITHIN LIMITS OF FRESHWATER WETLANDS AND/OR STATE OPEN WATER.
5. SILT FENCE SHALL BE OF BLACK COLOR.

HEAVY DUTY SILT FENCE
N.T.S.

	BY	DATE
MADE:	KK	10-2019
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CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

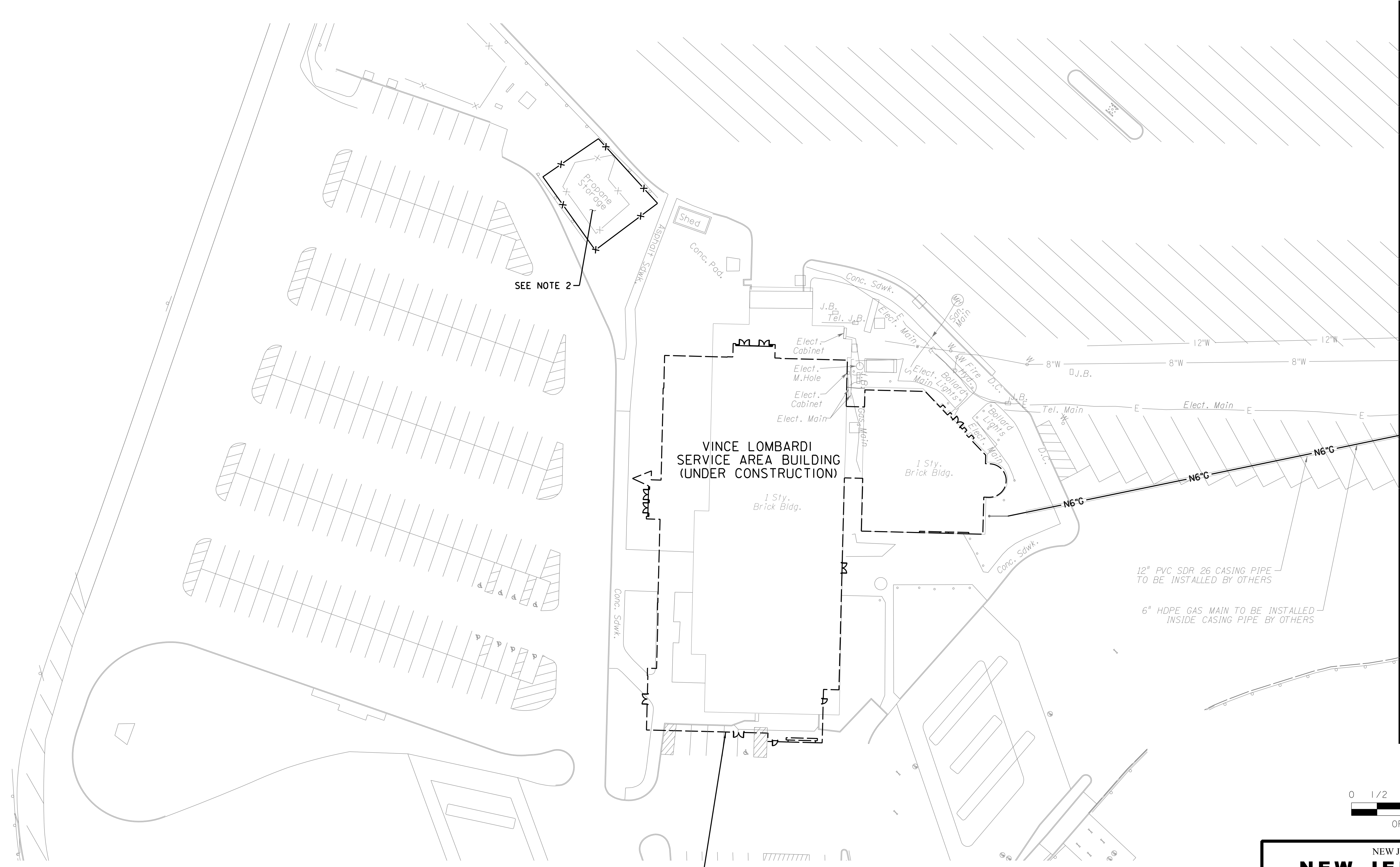
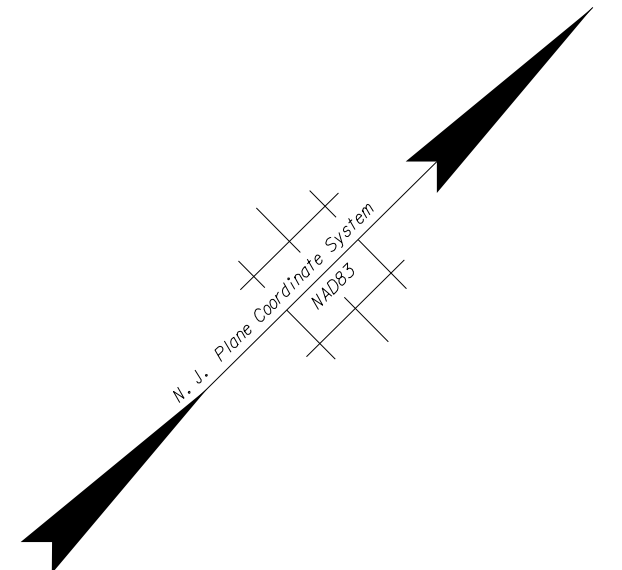
ENVIRONMENTAL & SOIL EROSION AND
SEDIMENT CONTROL DETAILS

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07862
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

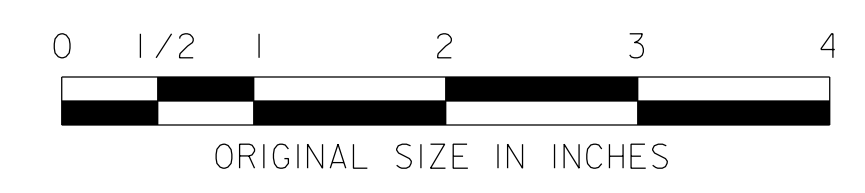
RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: NONE
DATE: MAY 2020

EP-9
EP-9



MATCH LINE SEE PLAN C-2



NOTE:

1. GAS SERVICE FROM METER PIT TO SERVICE AREA BUILDING TO BE INSTALLED BY OTHERS IN FUTURE CONTRACT.
2. EXISTING UNDERGROUND PROPANE TANKS TO BE DECOMMISSIONED AND REMOVED.

PROPOSED SERVICE AREA BUILDING
(BY OTHERS)

	BY	DATE
MADE:	KK	03-2020
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SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

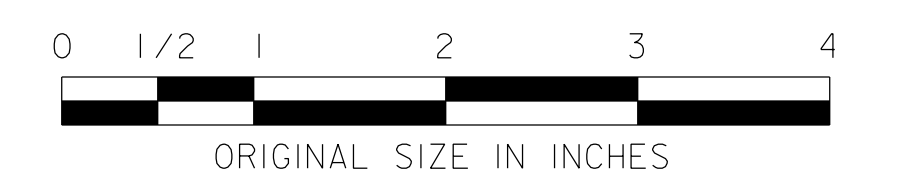
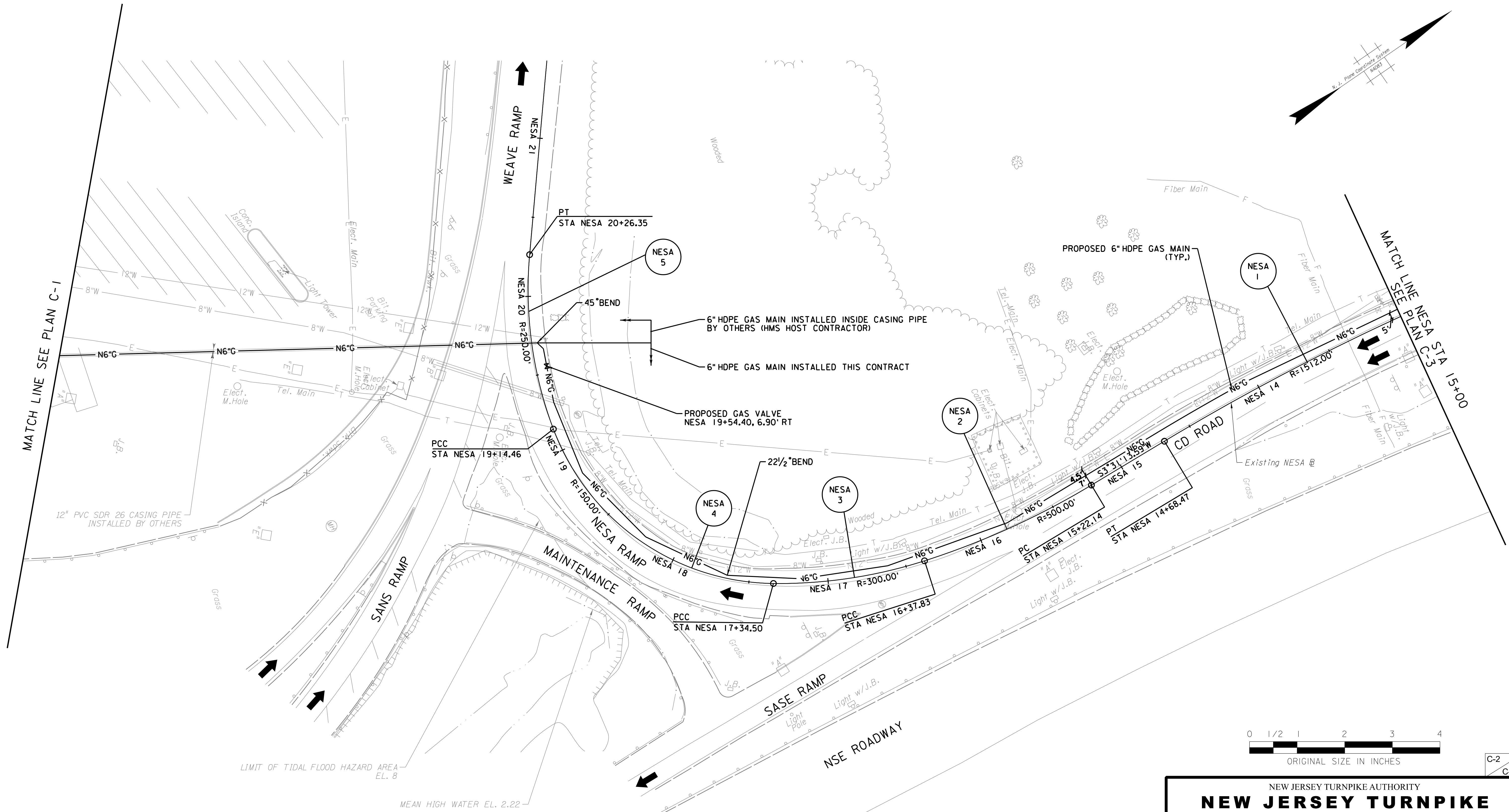
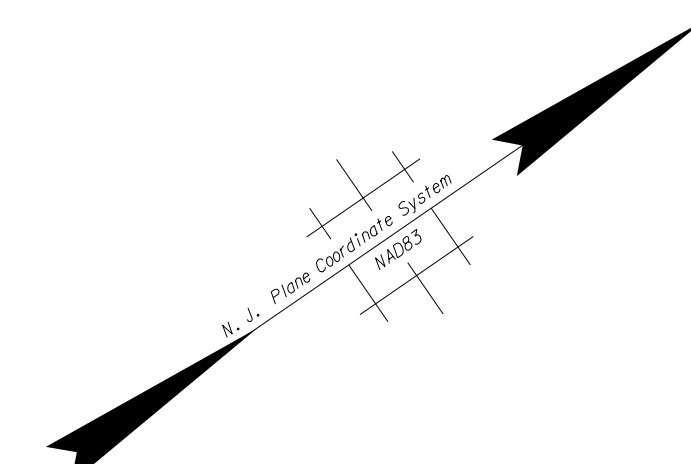
CONSTRUCTION PLAN -1-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: 1" = 30'
 DATE: MAY 2020

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

C-1
C-8



NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

CONSTRUCTION PLAN -2-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

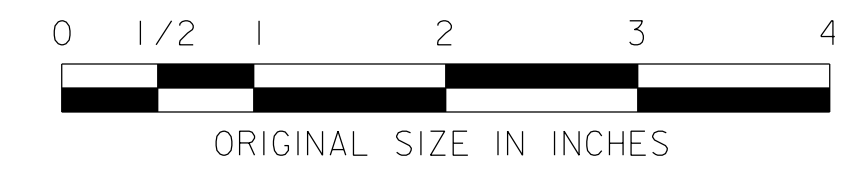
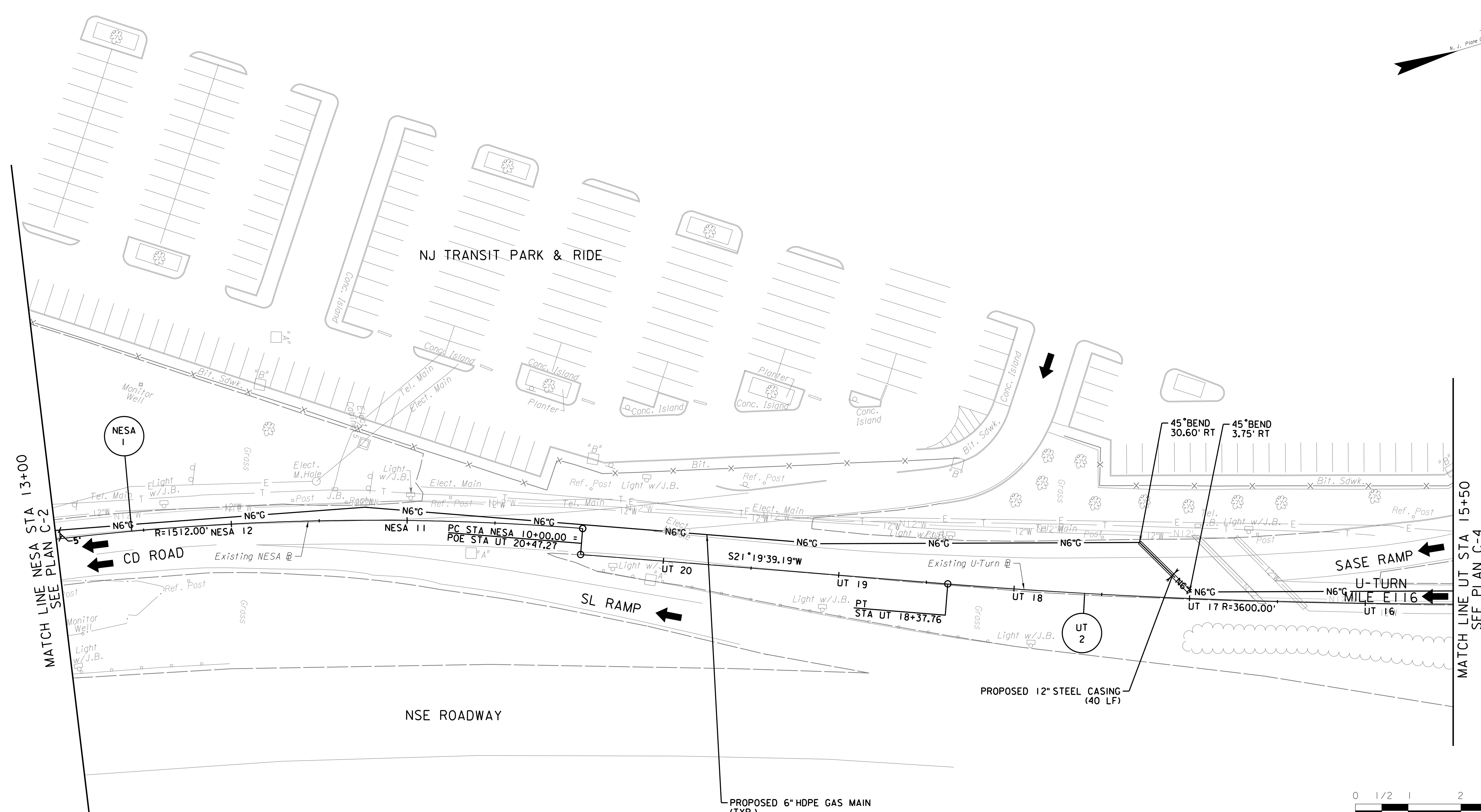
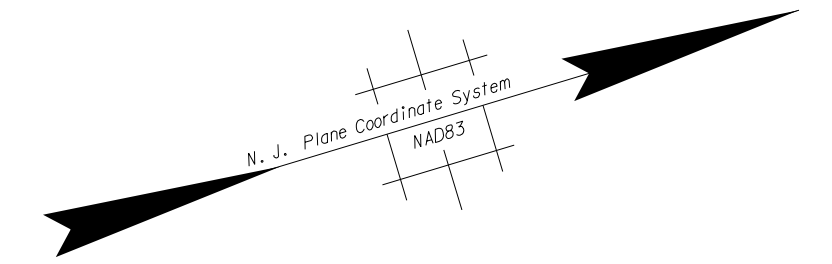
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

C-2
C-8



NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

CONSTRUCTION PLAN -3-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

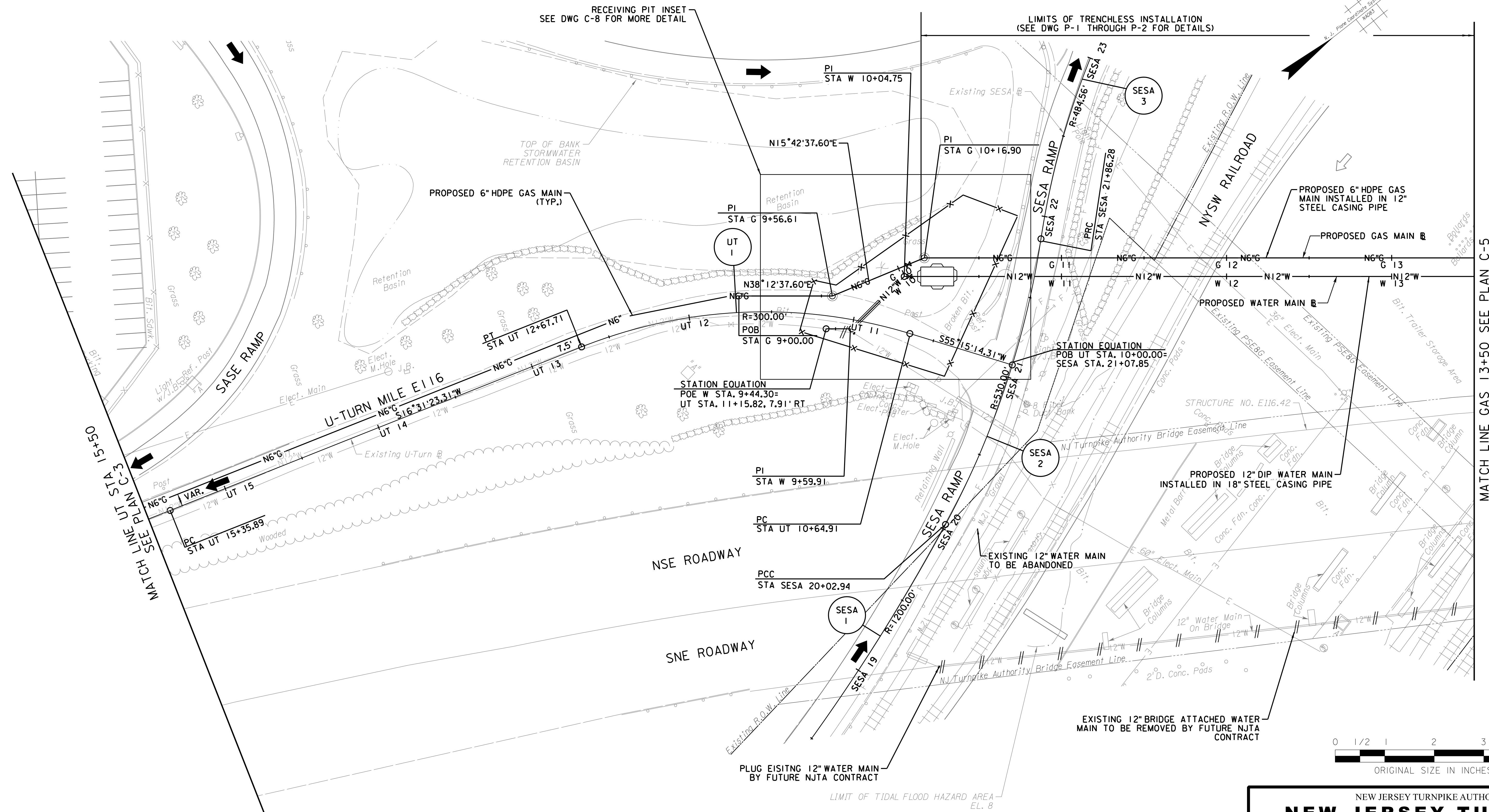
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

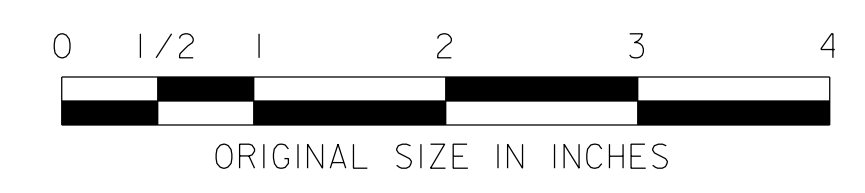
	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

C-3
C-8



MATCH LINE GAS 13+50 SEE PLAN C-5



NOTE:

1. CONTRACTOR SHALL TIE PROPOSED WATER MAIN INTO EXISTING WATER MAIN AT NEAREST JOINT.
2. REFER TO DWG. CD-2 FOR WATERMAIN THRUST BLOCK REQUIREMENTS AND DETAILS.

BY:	KK	DATE:	03-2020
MADE:	KK	TRACED:	03-2020
CHECKED:	JS	SUPERVISED:	RUSSELL SAPUTO

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

CONSTRUCTION PLAN -4-

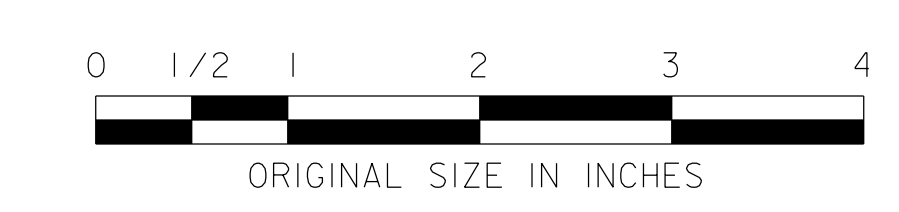
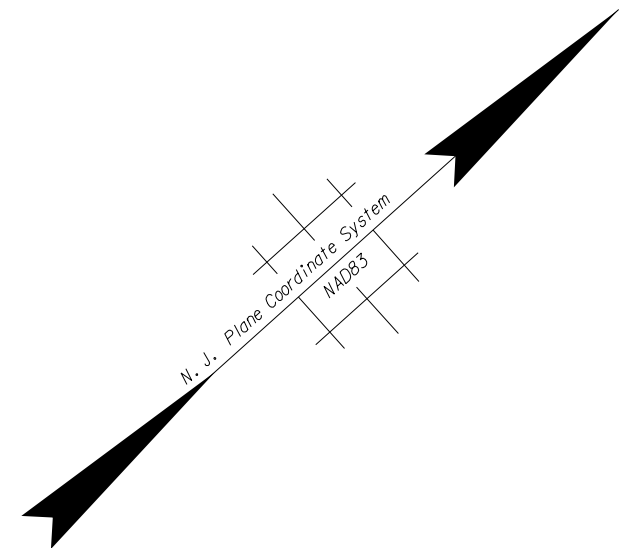
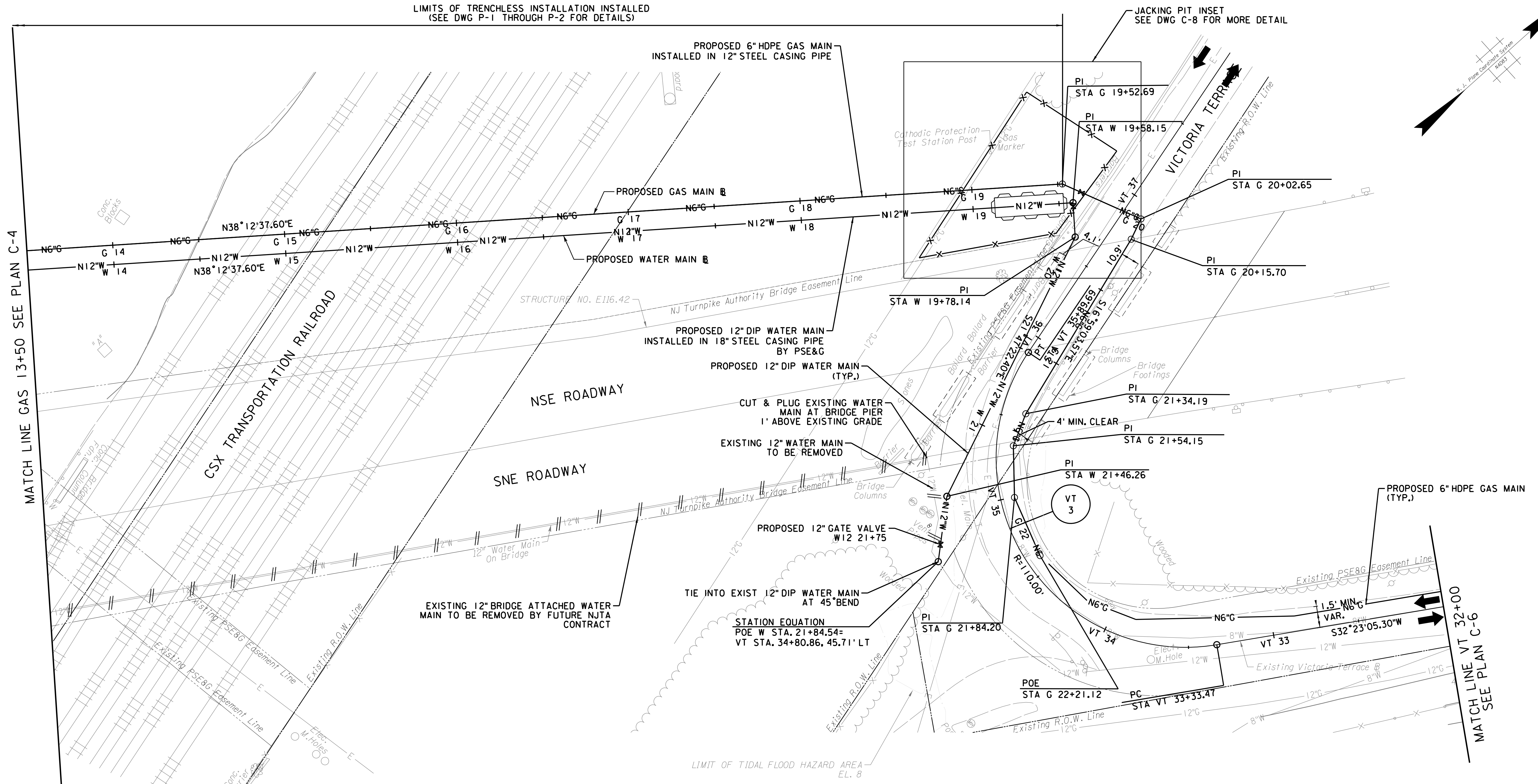
Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

C-4
C-8

LIMITS OF TRENCHLESS INSTALLATION INSTALLED
(SEE DWG P-1 THROUGH P-2 FOR DETAILS)



NOTE:

1. CONTRACTOR SHALL TIE PROPOSED WATER MAIN INTO EXISTING WATER MAIN AT NEAREST JOINT.
2. REFER TO DWG. CD-2 FOR WATERMAIN THRUST BLOCK REQUIREMENTS AND DETAILS.

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

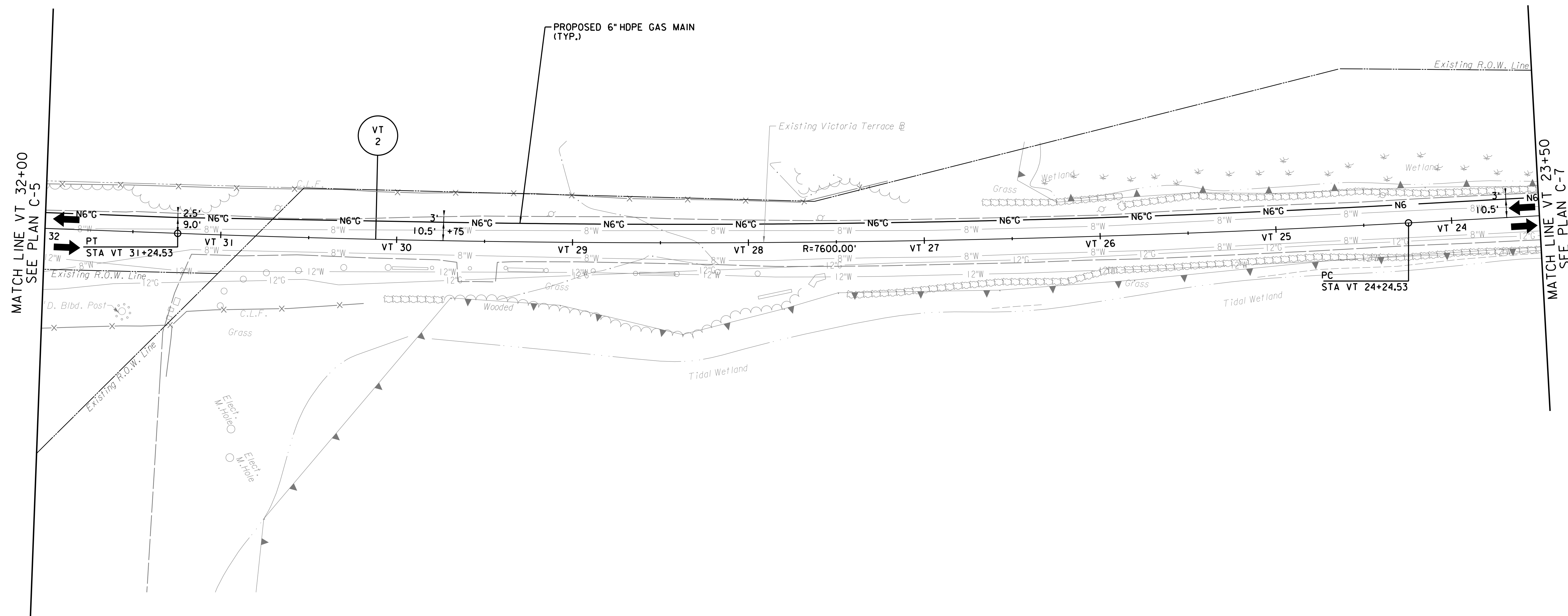
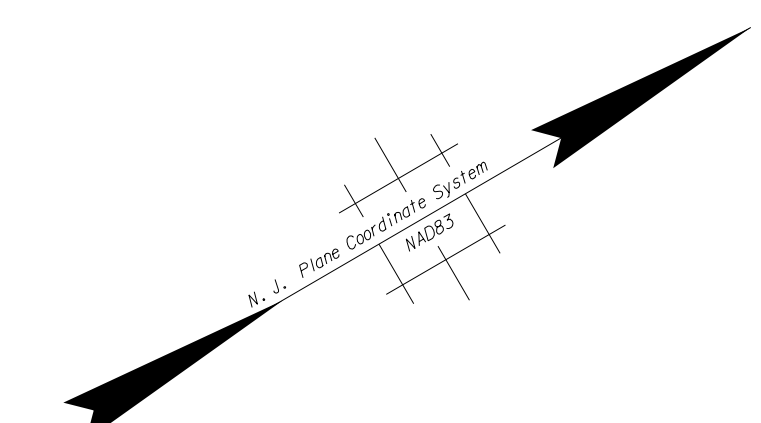
CONSTRUCTION PLAN -5-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

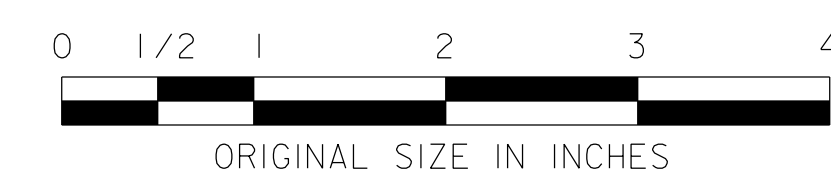
SCALE: 1" = 30'
 DATE: MAY 2020

C-5
C-8



MATCH LINE VT 32+00
SEE PLAN C-5

MATCH LINE VT 23+50
SEE PLAN C-7



C-6
C-8

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

CONSTRUCTION PLAN -6-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07662
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

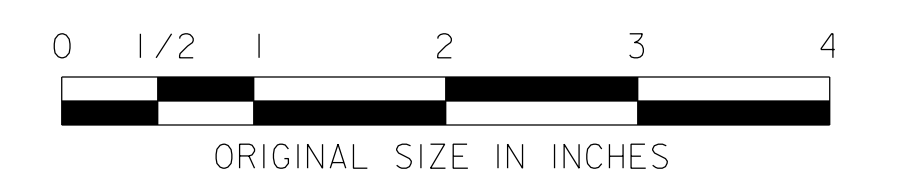
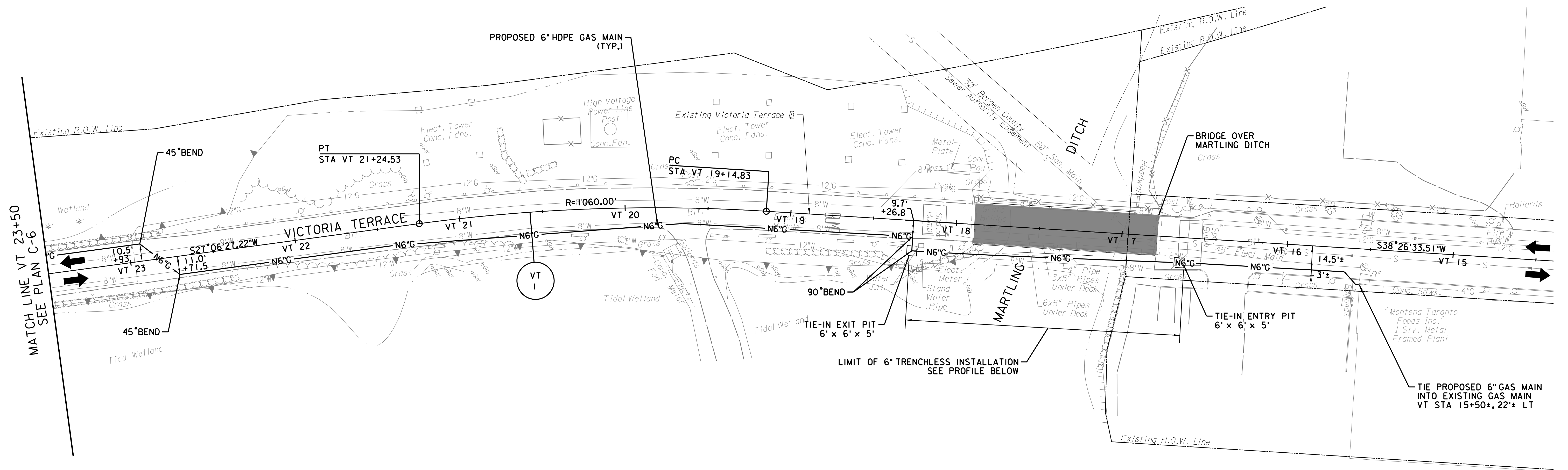
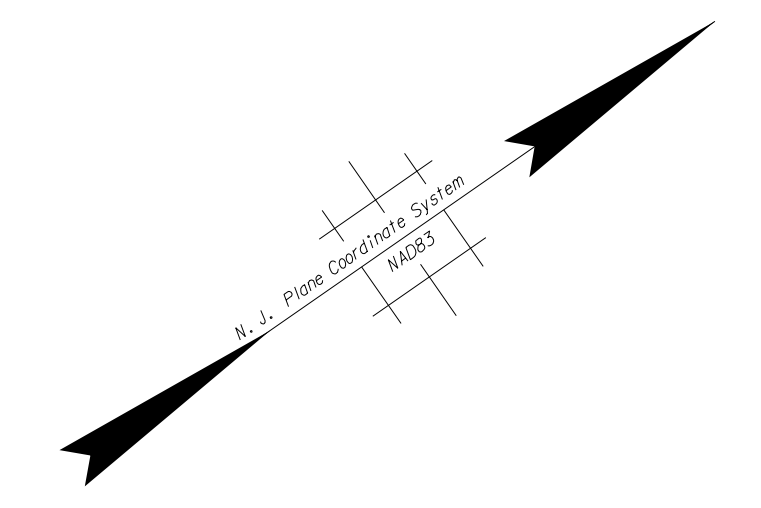
RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 30'
 DATE: MAY 2020

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

20
25



	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

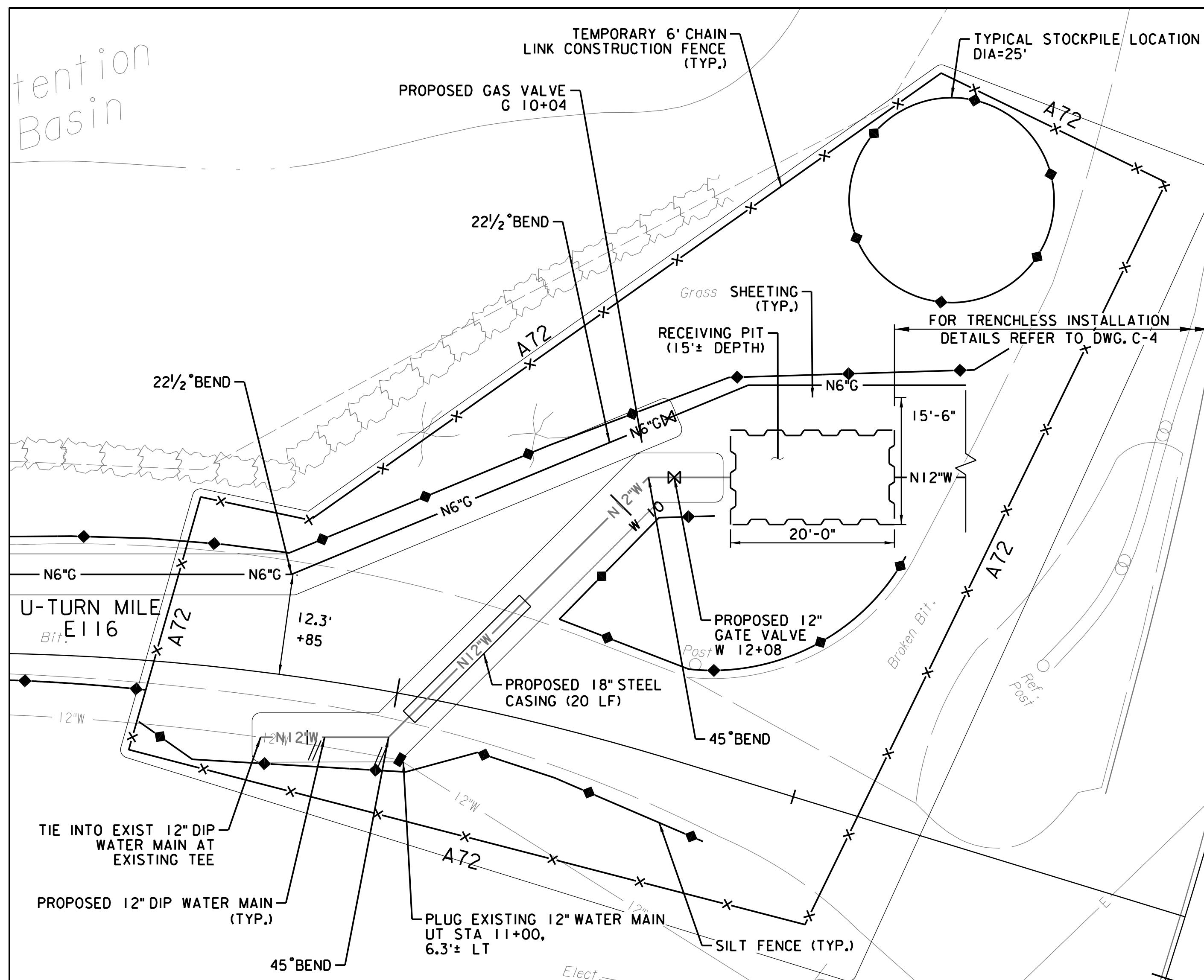
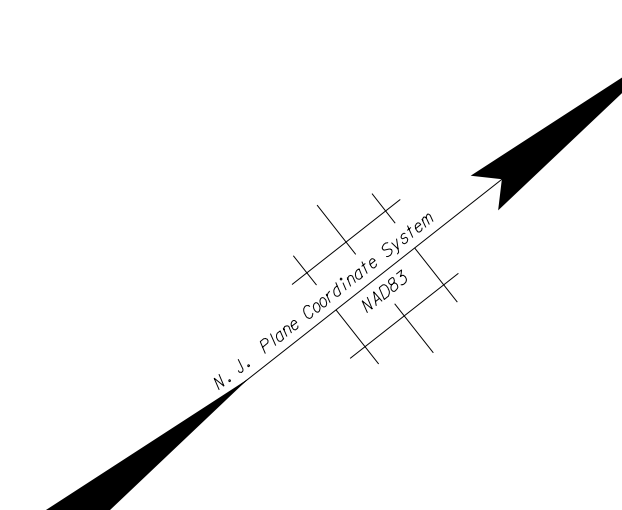
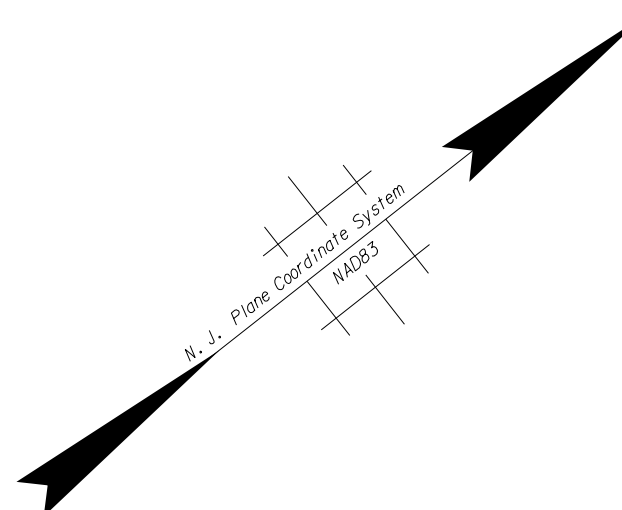
CONSTRUCTION PLAN -7-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

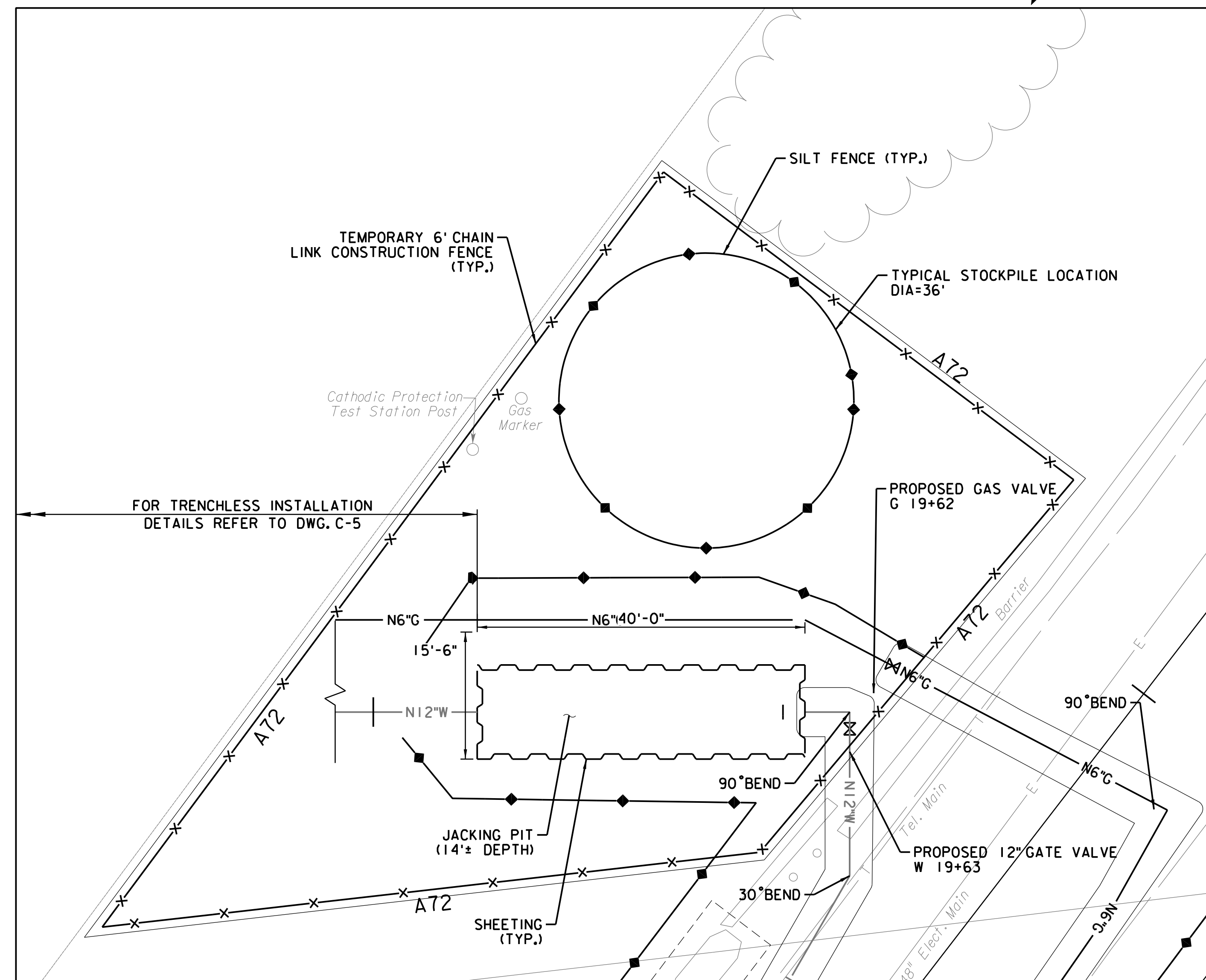
SCALE: 1" = 30'
 DATE: MAY 2020

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

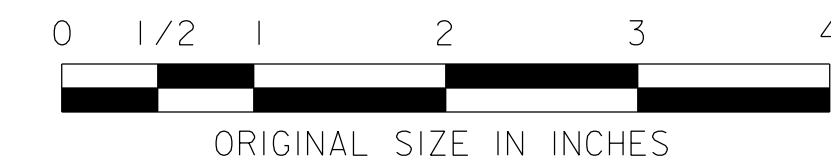
C-7
C-8



RECEIVING PIT INSET



JACKING PIT INSET



	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

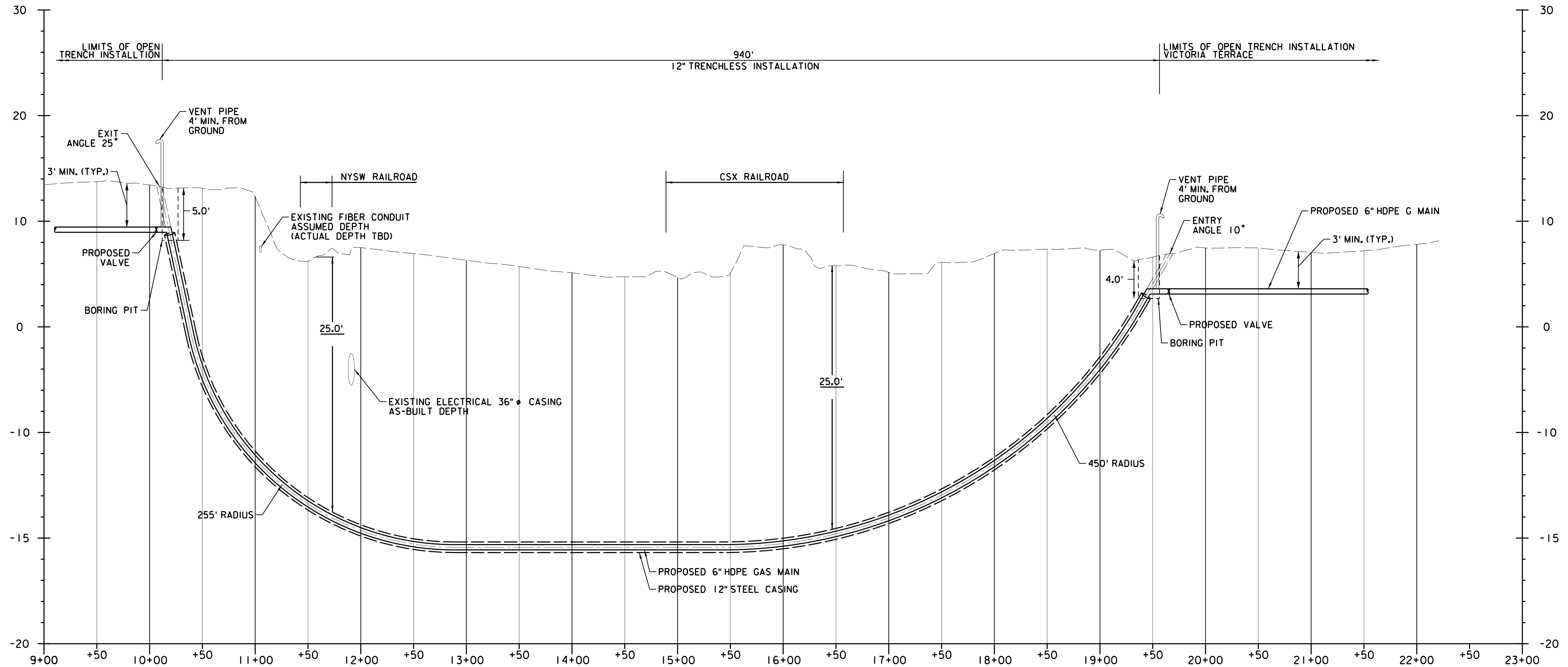
CONSTRUCTION PLAN -8-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07862
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

SCALE: 1" = 10'
 DATE: MAY 2020

C-8
C-8

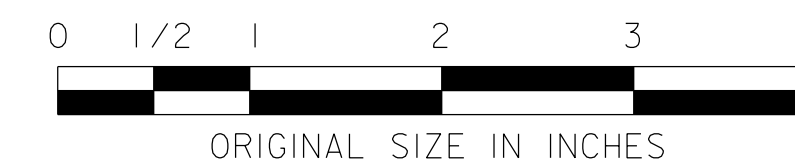


12" TRENCHLESS INSTALLATION PROFILE

NOTES:

1. STEEL CASING PIPE AND JOINT REQUIREMENTS SHALL BE IN CONFORMANCE WITH ASTM A1097 AND MEET CSXT SPECIFICATIONS OR GREATER.
2. 12" TRENCHLESS INSTALLATION PAY ITEM INCLUDES GAS MAIN, JACKING PIT, RECEIVING PIT, EARTH RETENTION SYSTEM, DEWATERING, AND RESTORATION.
3. STEEL CASING PIPE MUST BE CATHODICALLY PROTECTED.

	BY	DATE
MADE:	KK	03-2020
TRACED:	DH	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	



REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

GAS MAIN PROFILE -1-

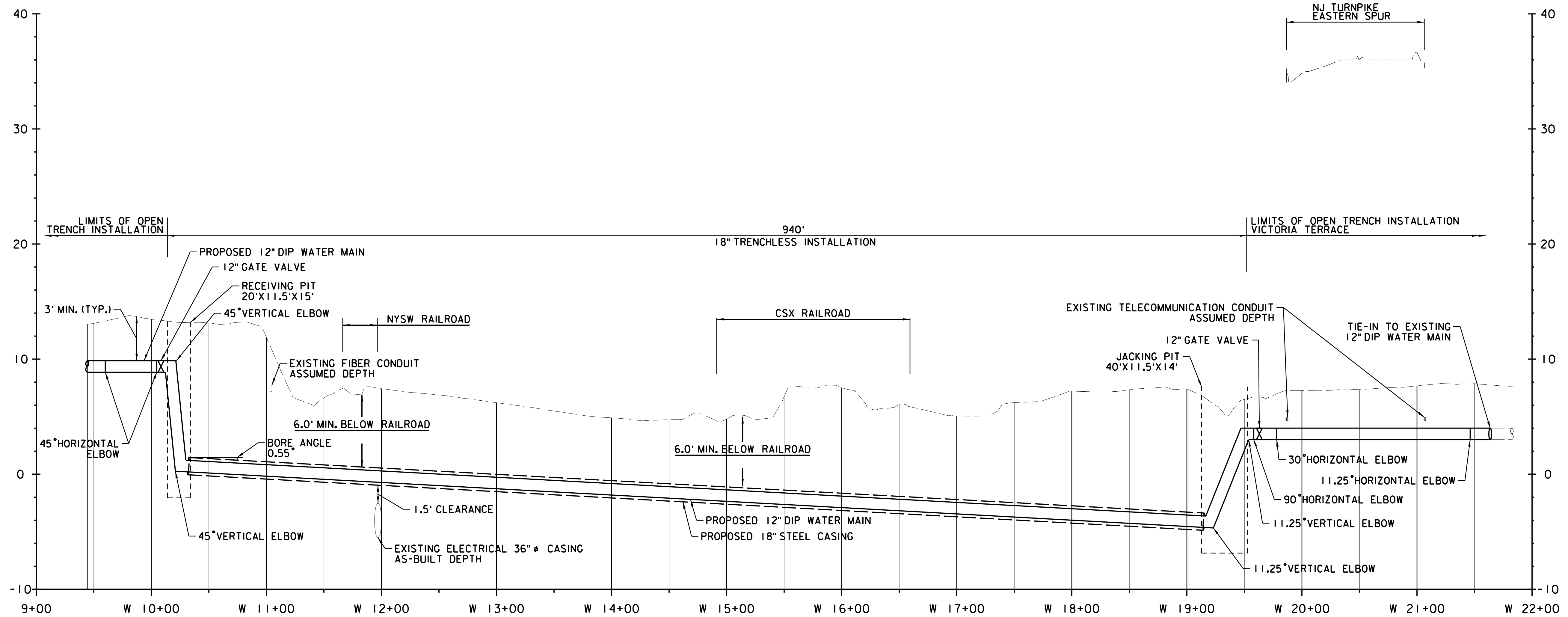
Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07662
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: 1:50H - 1:5V
 DATE: MAY 2020

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

P-1
P-2

23
25

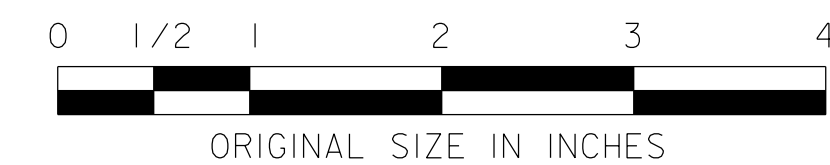


18" TRENCHLESS INSTALLATION PROFILE

NOTES:

1. STEEL CASING PIPE AND JOINT REQUIREMENTS SHALL BE IN CONFORMANCE WITH ASTM A1097 AND MEET CSXT SPECIFICATIONS OR GREATER.
2. 18" TRENCHLESS INSTALLATION PAY ITEM INCLUDES WATER MAIN, JACKING PIT, RECEIVING PIT, EARTH RETENTION SYSTEM, DEWATERING, AND RESTORATION.
3. STEEL CASING PIPE MUST BE CATHODICALLY PROTECTED.

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	



REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
 WATER SERVICE IMPROVEMENTS
 AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

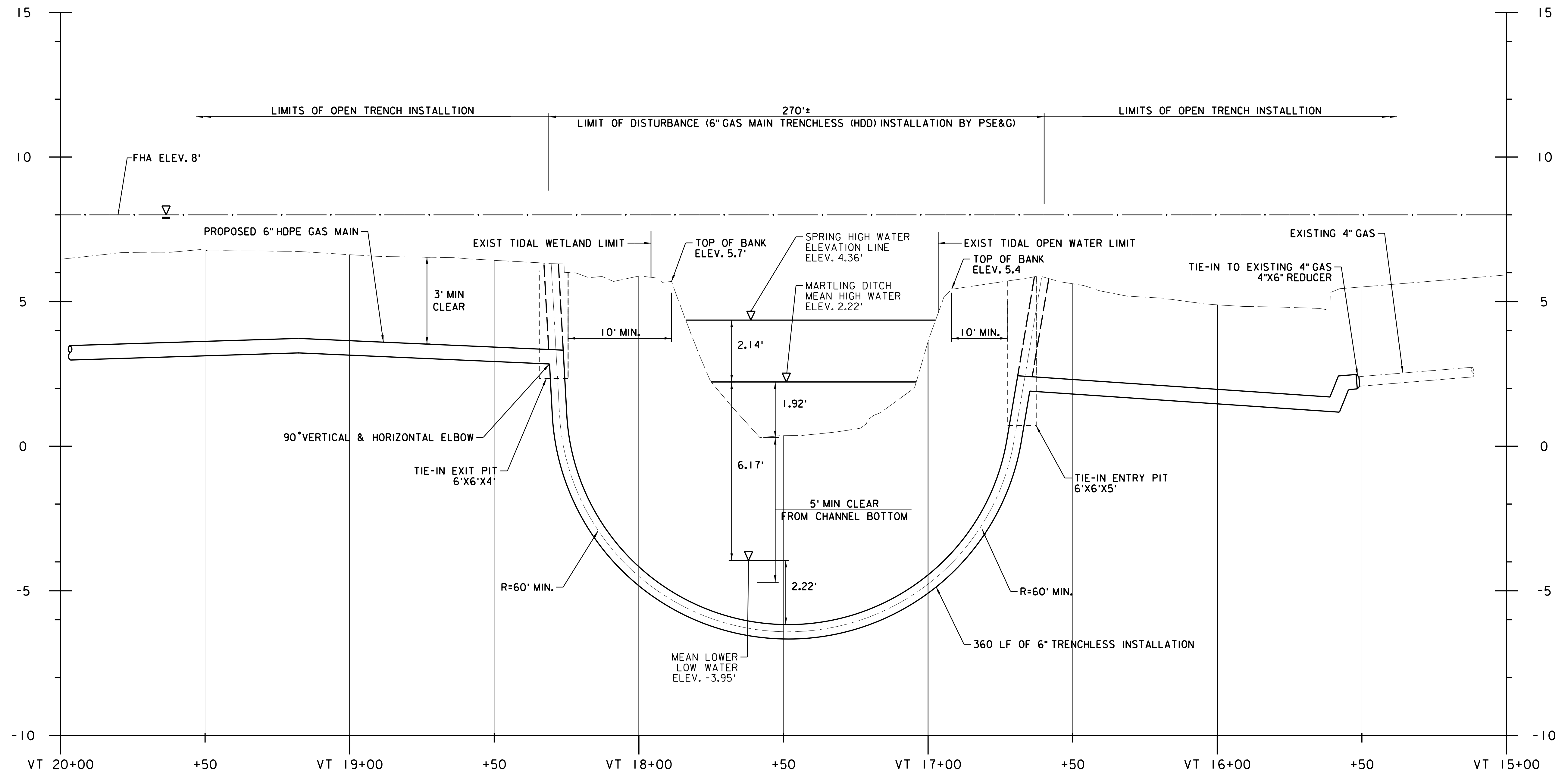
WATER MAIN PROFILE -1-

Stantec Consulting Services Inc.
 365 West Passaic Street, Rochelle Park, NJ 07662
 CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: 1:50H - 1:5V
 DATE: MAY 2020

RUSSELL SAPUTO
 NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

P-2
P-2



6" TRENCHLESS INSTALLATION PROFILE
(MARTLING DITCH)

	BY	DATE
MADE:	KK	03-2020
TRACED:	KK	03-2020
CHECKED:	JS	03-2020
SUPERVISED:	RUSSELL SAPUTO	

REV.	DESCRIPTION	DATE	BY	CHK.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
WATER SERVICE IMPROVEMENTS
AT VINCE LOMBARDI SERVICE AREA 13, MILEPOST 116

GAS MAIN PROFILE -2-

Stantec Consulting Services Inc.
365 West Passaic Street, Rochelle Park, NJ 07662
CERTIFICATE OF AUTHORIZATION NO. 24GA28064600

SCALE: 1" = 20' H - 1:10 V
DATE: MAY 2020

RUSSELL SAPUTO
NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE03667300

25
25