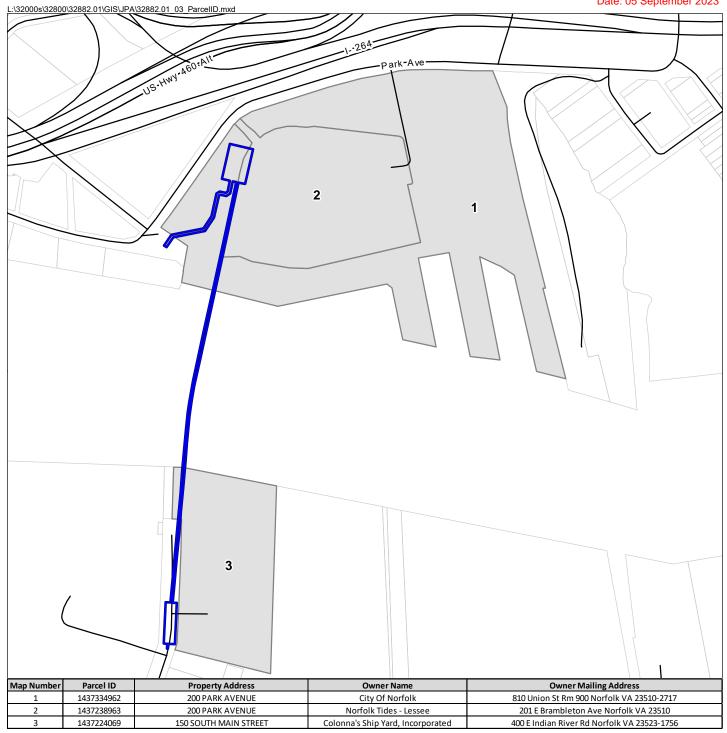
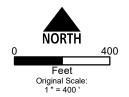
Received by KRD (CENAO-WRO-D)

Date: 05 September 2023

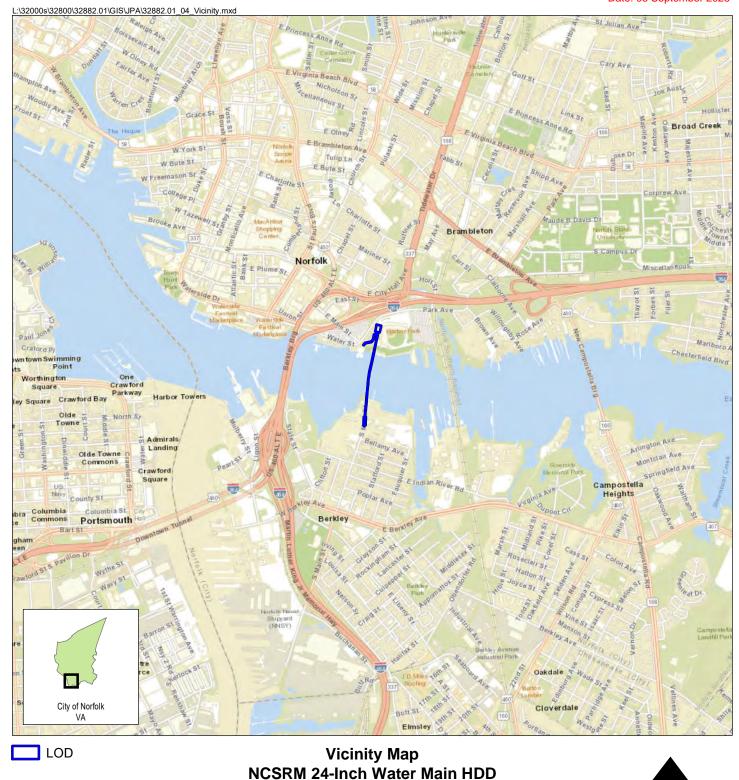


LOD
Parcel ID

Parcel ID Map NCSRM 24-Inch Water Main HDD WSSI #32882.01



Source: City of Norfolk Digital Data



WSSI #32882.01

Address: 200 Park Ave Norfolk, VA 23510 Source: World Street Map - ESRI

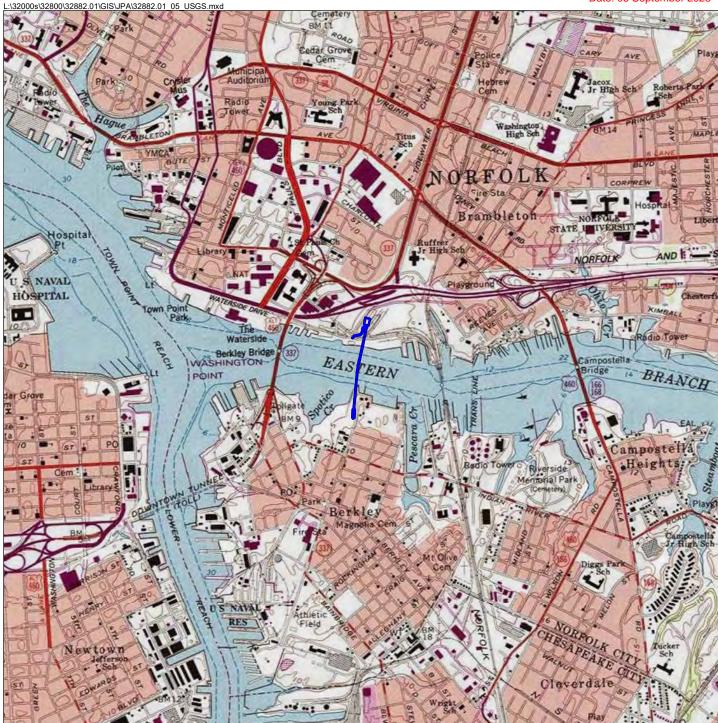
Wetland Studies and Solutions, Inc.

a **DAVEY** company

2,000

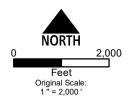
NORTH

Feet Original Scale: 1 " = 2,000 '



LOD: ±1.1 acres

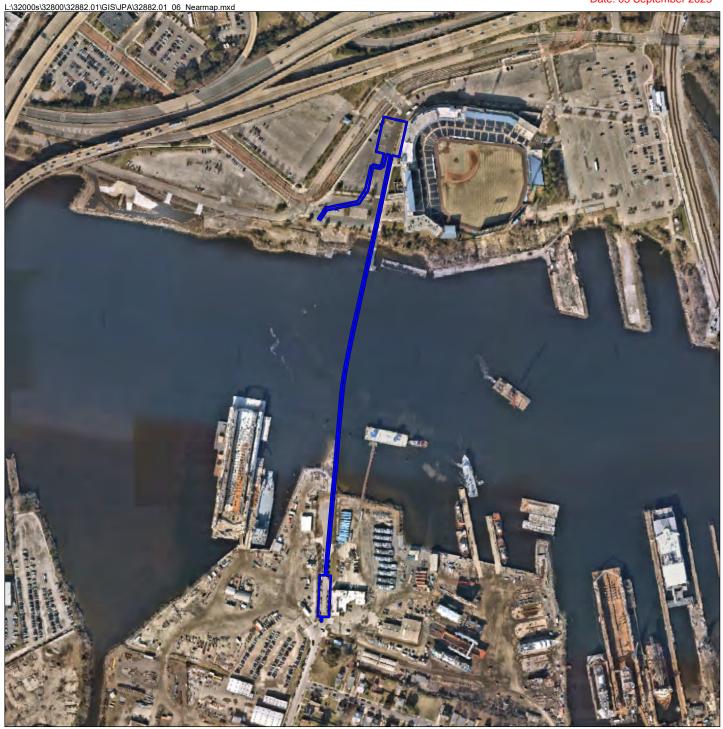
USGS 7.5' Quadrangle Map NCSRM 24-Inch Water Main HDD WSSI #32882.01



Norfolk South, VA 2000 Latitude: 36°50'28"N (36.841111) Longitude: 76°16'49"W (-76.280427) Hydrologic Unit Code (HUC): 020802080204 HUC12 Name: Eastern Branch Elizabeth River COE Region: Atlantic and Gulf Coastal Plain

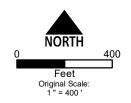
Wetland Studies and Solutions, Inc.

a **DAVEY** company

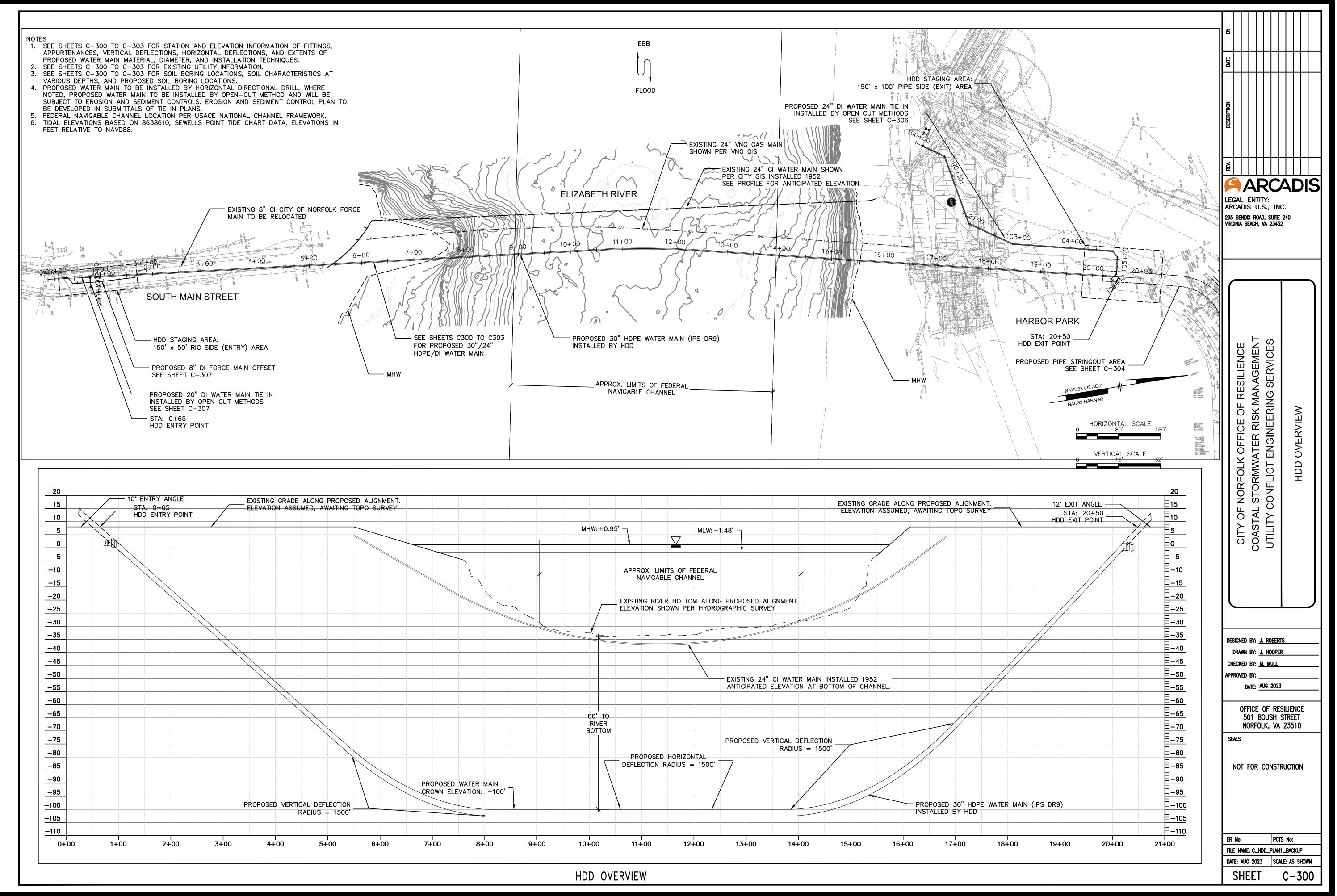


LOD

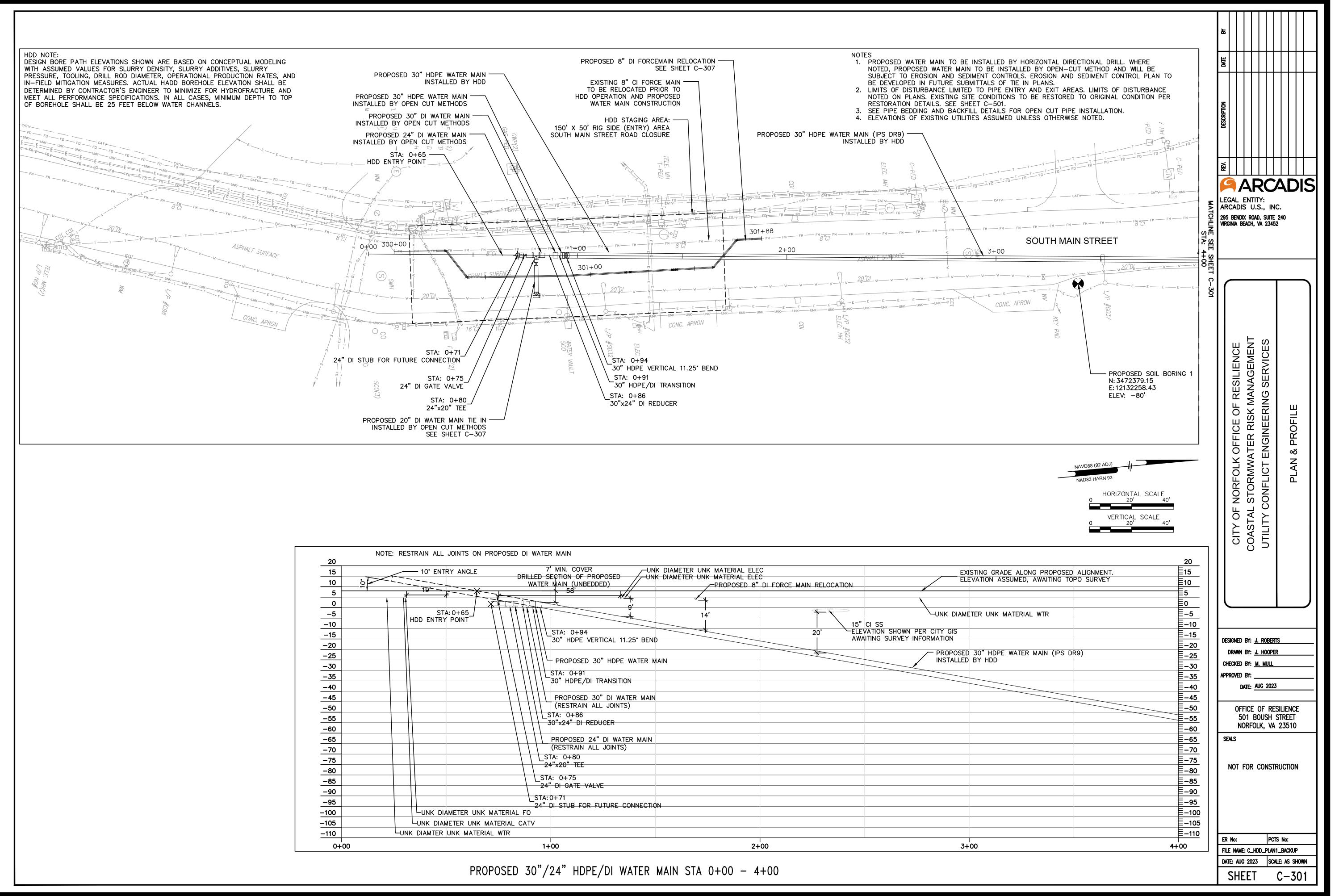
February 2023 Natural Color Imagery NCSRM 24-Inch Water Main HDD WSSI #32882.01

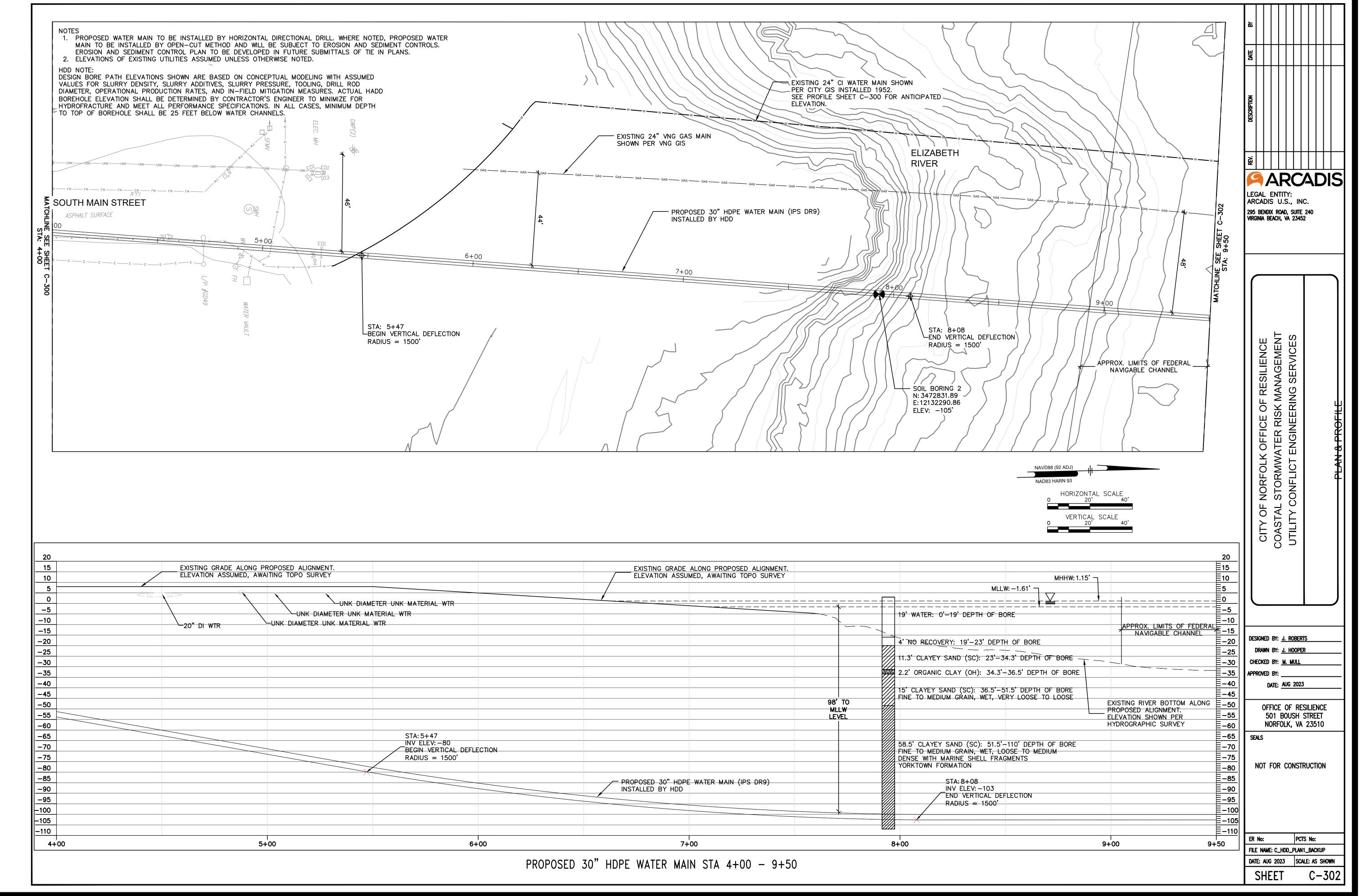


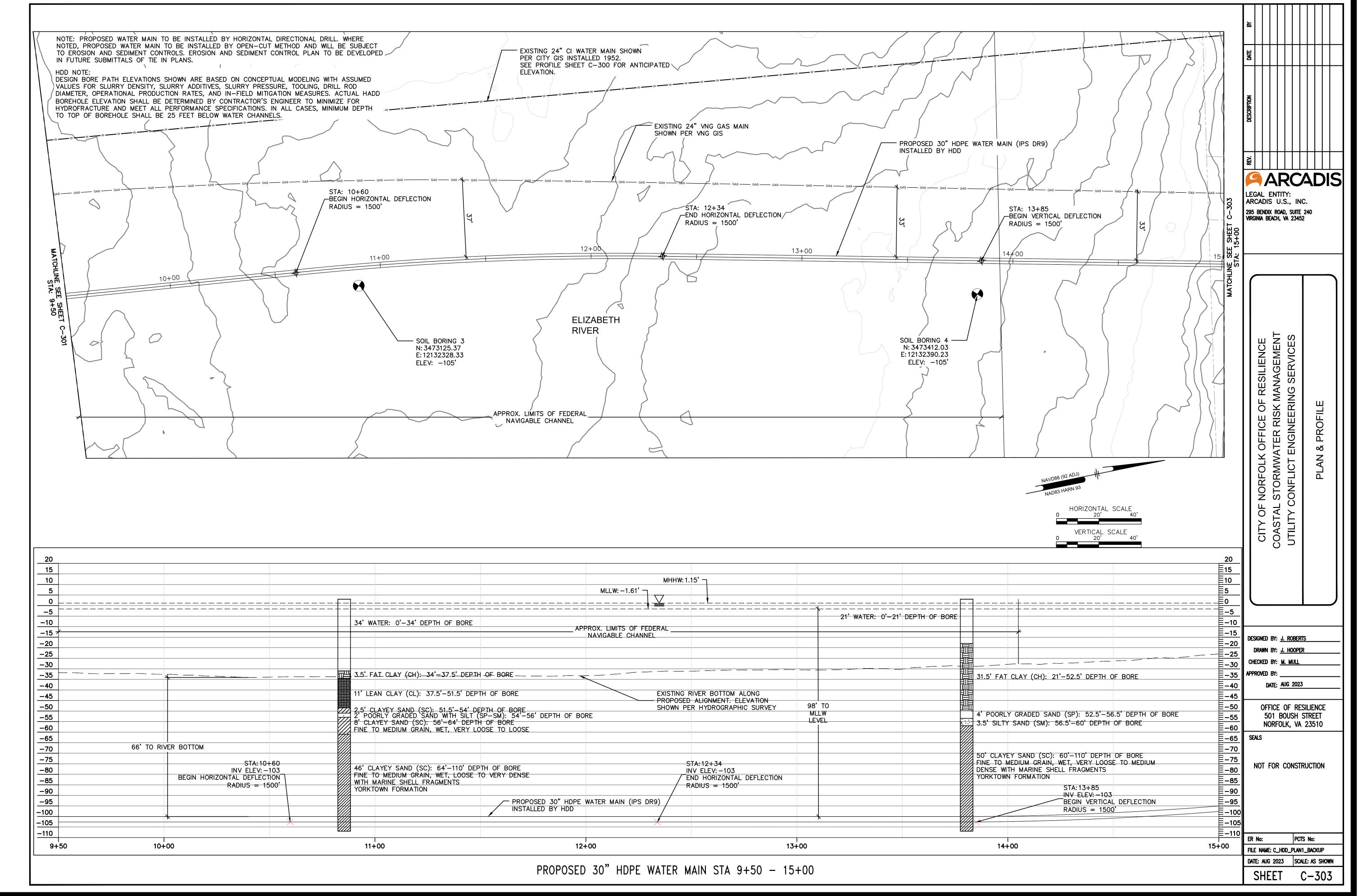
Source: Nearmap®

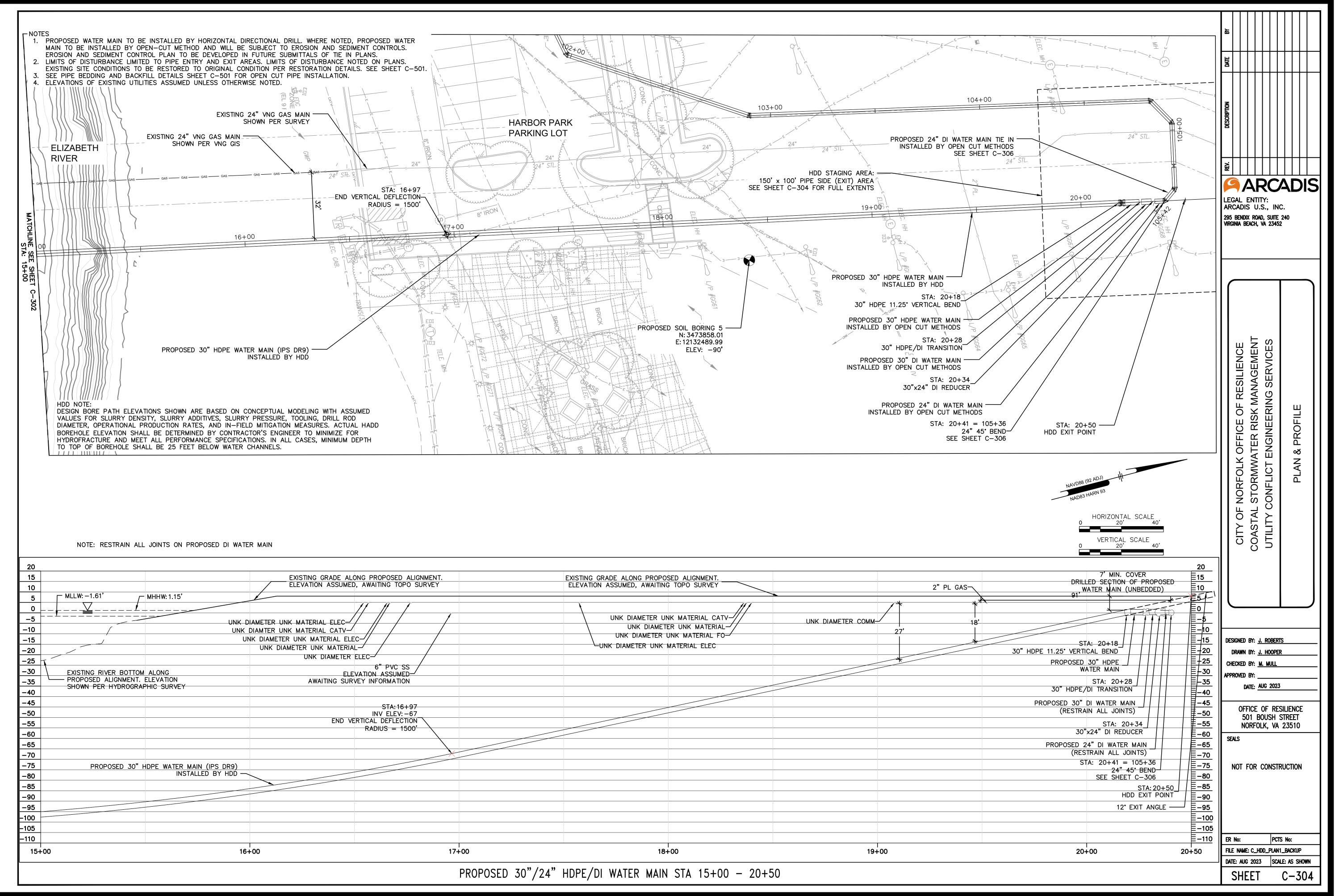


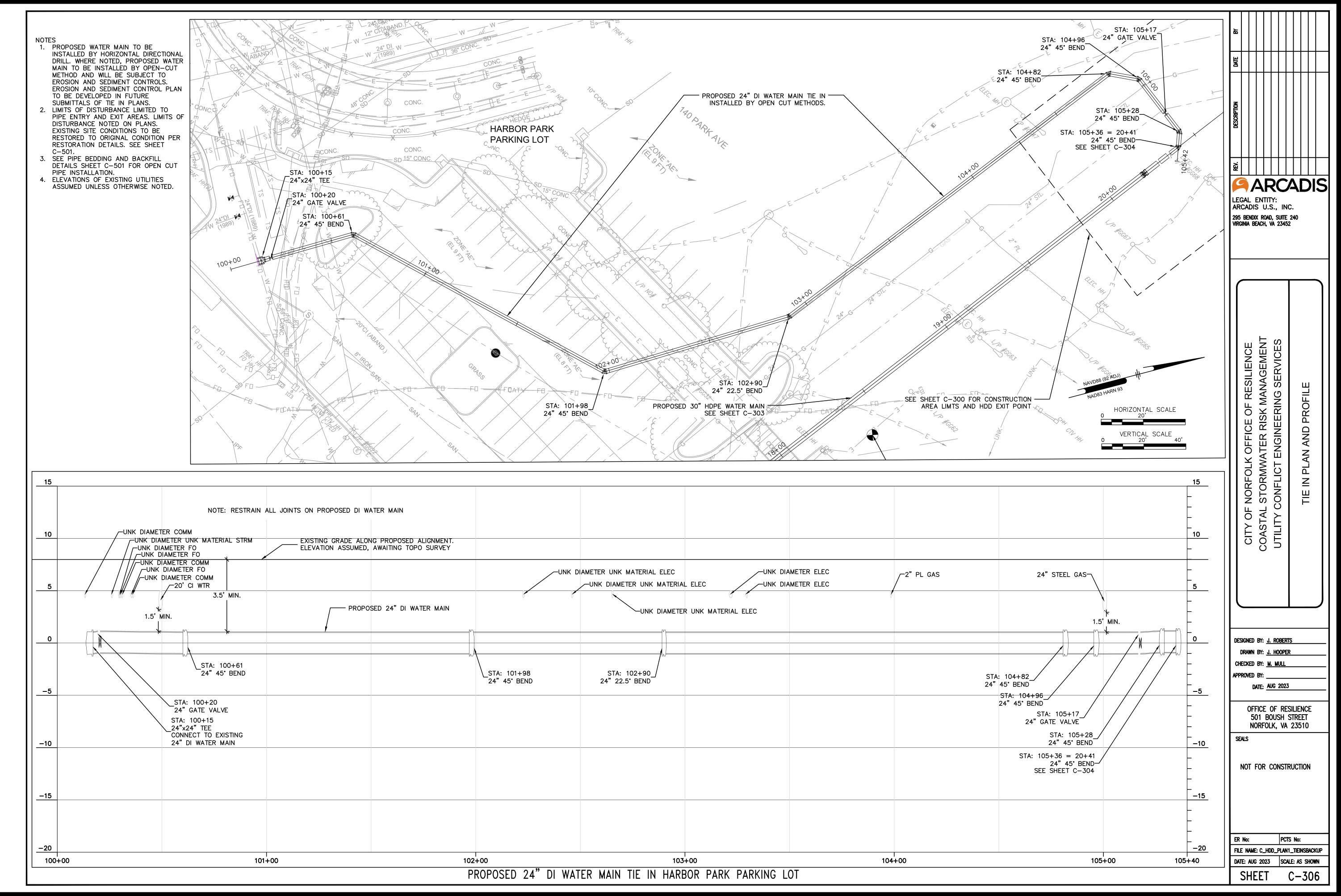
Received by KRD (CENAO-WRO-D)











Received by KRD (CENAO-WRO-D)

SEE SHEET C-300 FOR CONSTRUCTION -1. PROPOSED WATER MAIN TO BE INSTALLED BY HORIZONTAL AREA LIMTS AND HDD ENTRY POINT DIRECTIONAL DRILL. WHERE NOTED, PROPOSED WATER MAIN TO BE INSTALLED BY OPEN-CUT METHOD AND WILL BE SUBJECT TO EROSION AND SEDIMENT CONTROLS. EROSION PROPOSED 8" DI FORCE MAIN -AND SEDIMENT CONTROL PLAN TO BE DEVELOPED IN FUTURE SUBMITTALS OF TIE IN PLANS. LIMITS OF DISTURBANCE LIMITED TO PIPE ENTRY AND EXIT STA: 301+19 AREAS. LIMITS OF DISTURBANCE NOTED ON PLANS. EXISTING 8" 45° VERTICAL BEND SITE CONDITIONS TO BE RESTORED TO ORIGINAL CONDITION STA: 301+17 PER RESTORATION DETAILS. SEE SHEET C-501. 8" 45" VERTICAL BEND 3. SEE PIPE BEDDING AND BACKFILL DETAILS FOR OPEN CUT PIPE INSTALLATION. 4. ELEVATIONS OF EXISTING UTILITIES ASSUMED UNLESS PROPOSED 30" HDPE WATER MAIN (IPS DR9) -OTHERWISE NOTED. INSTALLED BY HDD SEE SHEET C-301 STA: 301+39 STA: 300+41 8" 45° VERTICAL BEND ⁻ 8" 45' BEND STA: 301+41 8" 45° VERTICAL BEND STA: 300+25 8" 45° BEND STA: 301+59 √8" 45° BEND STA: 300+20 STA: 301+76 78" 45° BEND CONNECT TO EXISTING 8" CI FORCE LEGAL ENTITY: ARCADIS U.S., INC. MAIN WITH 8" LONG SOLID_SLEEVE -STA: 301+88 -CONNECT TO EXISTING 8" CI FORCE-301+88 295 BENDIX ROAD, SUITE 240 MAIN WITH 8" LONG SOLID SLEEVE 7 0+00 300+00 VIRGINIA BEACH, VA 23452 - FM - + FM - 1+00M 3+00 301+00 SOUTH MAIN STREET $^{\circ}$ STA: 0+80 = 200+03 24"x20" TEE STA: 200+07 PROPOSED 20" DI WATER MAIN TIE IN 20" GATE VALVE F NORFOLK OFFICE OF RESILIENCE L STORMWATER RISK MANAGEMENT CONFLICT ENGINEERING SERVICES INSTALLED BY OPEN CUT METHODS STA: 200+22 20"x20" TEE CONNECT TO EXISTING 20" DI WATER MAIN - NOTE: RESTRAIN ALL JOINTS ON PROPOSED DI WATER MAIN , <u>∞</u> □ CITY OF COASTAI UTILITY EXISTING GRADE ALONG PROPOSED ALIGNMENT. EX. EXISTING GRADE ALONG PROPOSED ALIGNMENT. ELEVATION ASSUMED, AWAITING TOPO SURVEY ELEVATION ASSUMED, AWAITING TOPO SURVEY PROPOSED 8" DI FORCE MAIN TO BE INSTALLED AT NO LESS --UNK DIAMETER UNK MATERIAL ELEC _PROPOSED 8" DI FORCE 3' MIN. 3.5' MIN. MAIN RELOCATION -UNK DIAMETER UNK MATERIAL ELEC THAN 0.20% SLOPE 1.5' MIN. 1.5' MIN. 1.5' MIN. STA: 300+41 8" 45° BEND STA: 300+25 8" 45° BEND 1.5' MIN. STA: 301+17 DESIGNED BY: <u>J. ROBERTS</u> STA: 200+22 8" 45" VERTICAL BEND 20"x20" TEE DRAWN BY: <u>J. HOOPER</u> STA: 301+19 CONNECT TO EXISTING 8" 45° VERTICAL BEND 20" DI WATER MAIN CHECKED BY: M. MULL STA: 301+39 __5_ approved by: _ 8" 45° VERTICAL BEND 15" CI SS DATE: AUG 2023 LELEVATION SHOWN PER CITY GIS STA: 301+41 AWAITING SURVEY INFORMATION 8" 45° VERTICAL BEND OFFICE OF RESILIENCE STA: 301+59_/ _STA: 200+07 501 BOUSH STREET 8" 45° BEND 20" GATE VALVE NORFOLK, VA 23510 SEALS PROPOSED 20" DI WATER MAIN 15" CI SS 15" CI SS LELEVATION SHOWN PER CITY GIS | ELEVATION SHOWN PER CITY GIS-AWAITING SURVEY INFORMATION LSTA: 0+80 = 200+03AWAITING SURVEY INFORMATION NOT FOR CONSTRUCTION __24"x20" TEE PROPOSED 30" HDPE _15 **-15** (IPS DR9) WATER MAIN STA: 301+76_ 8" 45° BEND STA: 300+20 STA: 301+88 CONNECT TO EXISTING 8" CI FORCE CONNECT TO EXISTING 8" CI FORCE-MAIN WITH 8" LONG SOLID SLEEVE MAIN WITH 8" LONG SOLID SLEEVE PCTS No: 200+00 200+75 300+00 301+00 302+00 199+80 FILE NAME: C_HDD_PLAN1_TIEINSBACKUP DATE: AUG 2023 | SCALE: AS SHOWN PROPOSED 8" DI FORCE MAIN OFFSET SOUTH MAIN STREET PROPOSED 20" DI WATER MAIN TIE IN SOUTH MAIN STREET SHEET C - 307