

WATER AND SEWER PLANS

HINDE ENGINEERING
 License No. C-2639
 401 Harrison Oaks Blvd., Suite 145 Cary, NC 27513

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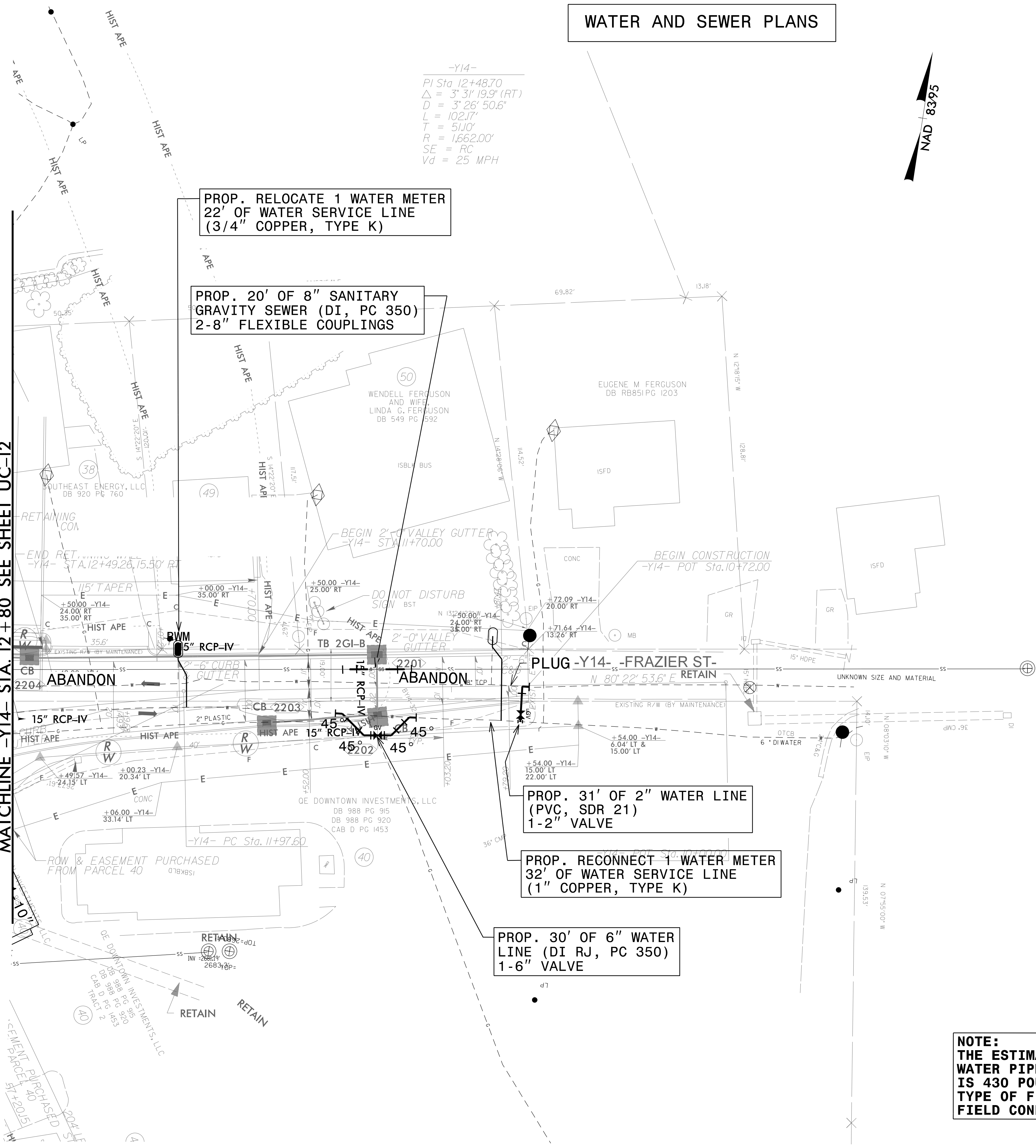
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| PROJECT REFERENCE NO. | SHEET NO. |
| U-5839 | UC-20 |
| DESIGNED BY: CDB | |
| DRAWN BY: ASW | |
| CHECKED BY: CLS | |
| APPROVED BY: CDB | |
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| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | 5/1/2023 UTILITY CONSTRUCTION PLANS ONLY |

UTILITY CONSTRUCTION

-Y14-
 PI Sta. 12+48.70
 $\Delta = 3^{\circ} 31' 19.9" (RT)$
 $D = 3^{\circ} 26' 50.6"$
 $L = 102.17'$
 $T = 51.10'$
 $R = 1,662.00'$
 $SE = RC$
 $Vd = 25 MPH$



MATCHLINE -Y14- STA. 12 + 80 SEE SHEET UC-12



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 430 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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WATER LINE 1

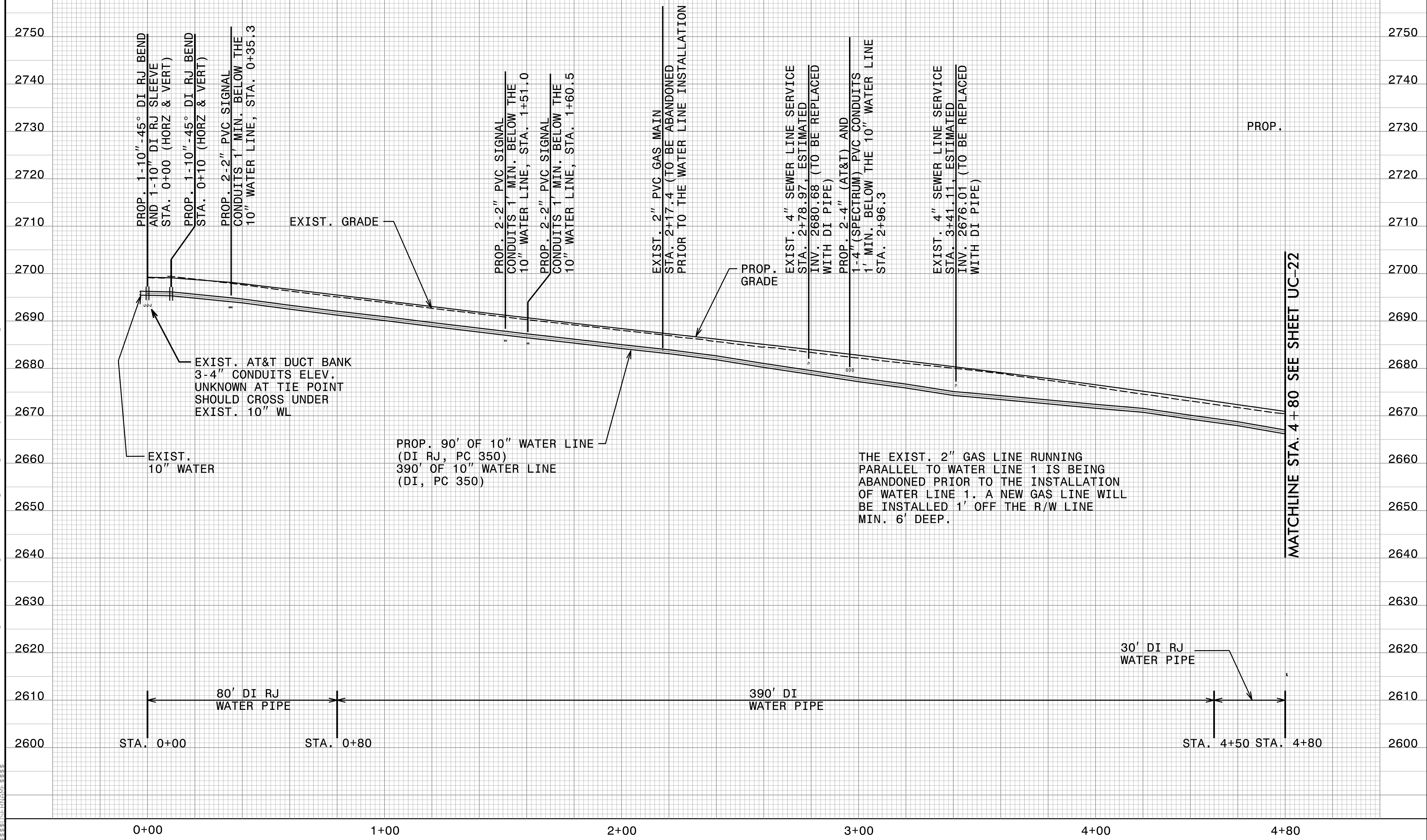
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| PROJECT REFERENCE NO. U-5839 | SHEET NO. UC-21 |
| DESIGNED BY: CDB | |
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PROP. 1-10" -45° DI RJ BEND AND 1-10" DI RJ SLEEVE STA. 0+00 (HORZ & VERT)

PROP. 1-10" -45° DI RJ BEND STA. 0+10 (HORZ & VERT)

PROP. 2-2" PVC SIGNAL CONDUITS 1' MIN. BELOW THE 10" WATER LINE, STA. 0+35.3

EXIST. GRADE

PROP. 2-2" PVC SIGNAL CONDUITS 1' MIN. BELOW THE 10" WATER LINE, STA. 1+51.0

PROP. 2-2" PVC SIGNAL CONDUITS 1' MIN. BELOW THE 10" WATER LINE, STA. 1+60.5

EXIST. 2" PVC GAS MAIN STA. 2+17.4 (TO BE ABANDONED PRIOR TO THE WATER LINE INSTALLATION)

PROP. GRADE

EXIST. 4" SEWER LINE SERVICE STA. 2+78.97, ESTIMATED INV. 2680.68 (TO BE REPLACED WITH DI PIPE)

PROP. 2-4" (AT&T) AND 1-4" (SPECTRUM) PVC CONDUITS 1' MIN. BELOW THE 10" WATER LINE STA. 2+96.3

EXIST. 4" SEWER LINE SERVICE STA. 3+41.11, ESTIMATED INV. 2676.01 (TO BE REPLACED WITH DI PIPE)

EXIST. AT&T DUCT BANK 3-4" CONDUITS ELEV. UNKNOWN AT TIE POINT SHOULD CROSS UNDER EXIST. 10" WL

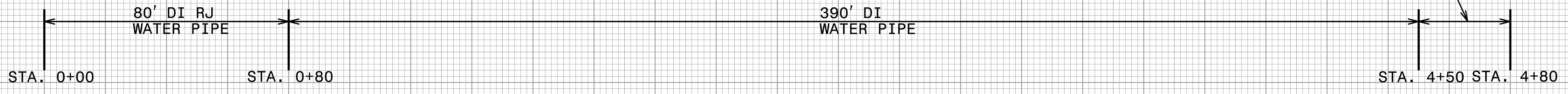
EXIST. 10" WATER

PROP. 90' OF 10" WATER LINE (DI RJ, PC 350)

390' OF 10" WATER LINE (DI, PC 350)

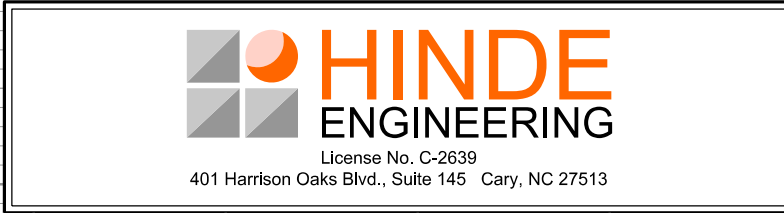
THE EXIST. 2" GAS LINE RUNNING PARALLEL TO WATER LINE 1 IS BEING ABANDONED PRIOR TO THE INSTALLATION OF WATER LINE 1. A NEW GAS LINE WILL BE INSTALLED 1' OFF THE R/W LINE MIN. 6' DEEP.

30' DI RJ WATER PIPE




MATCHLINE STA. 4+80 SEE SHEET UC-22

WATER LINE 1

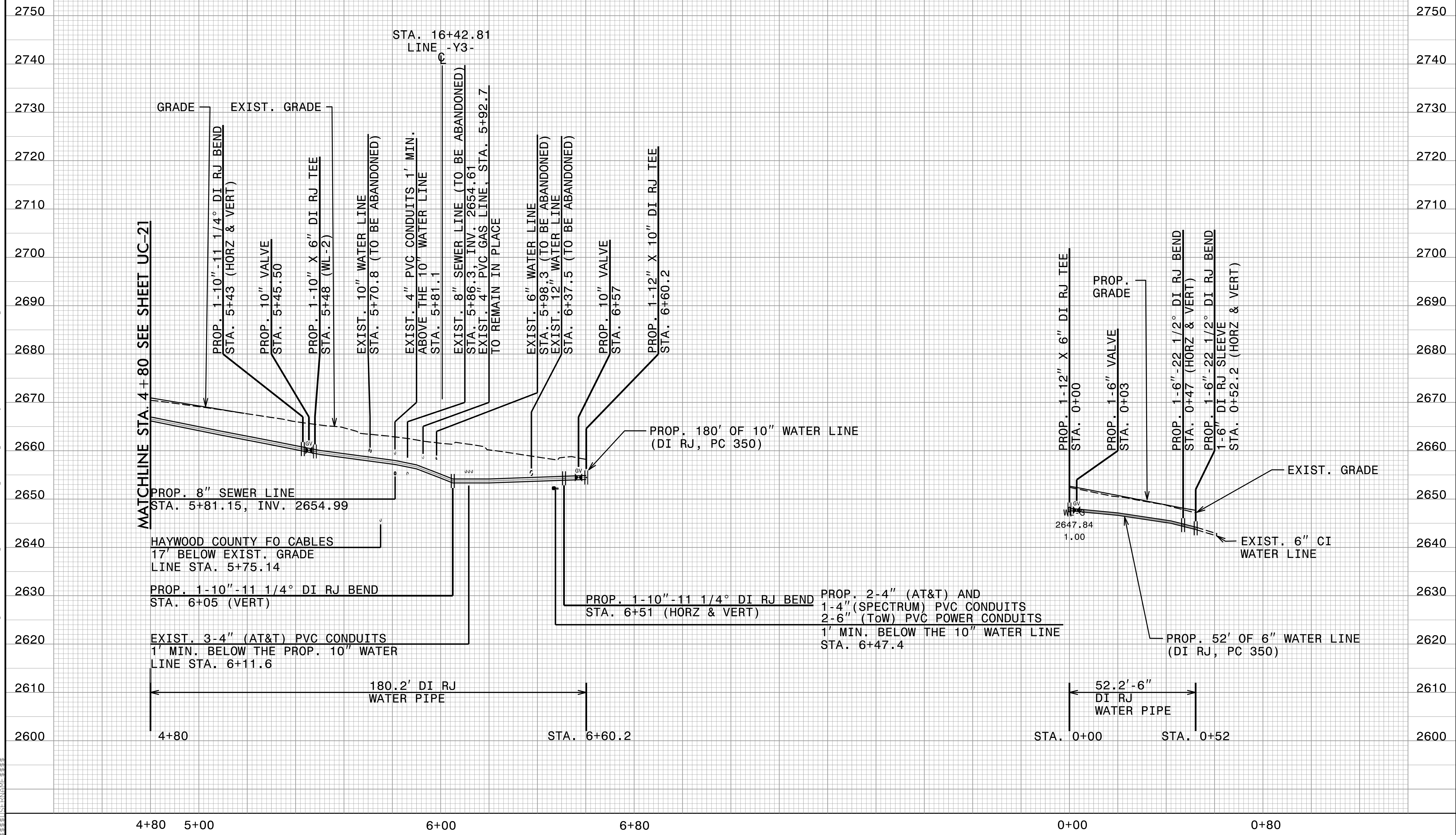


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WATER LINE 4

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WATER LINE 2

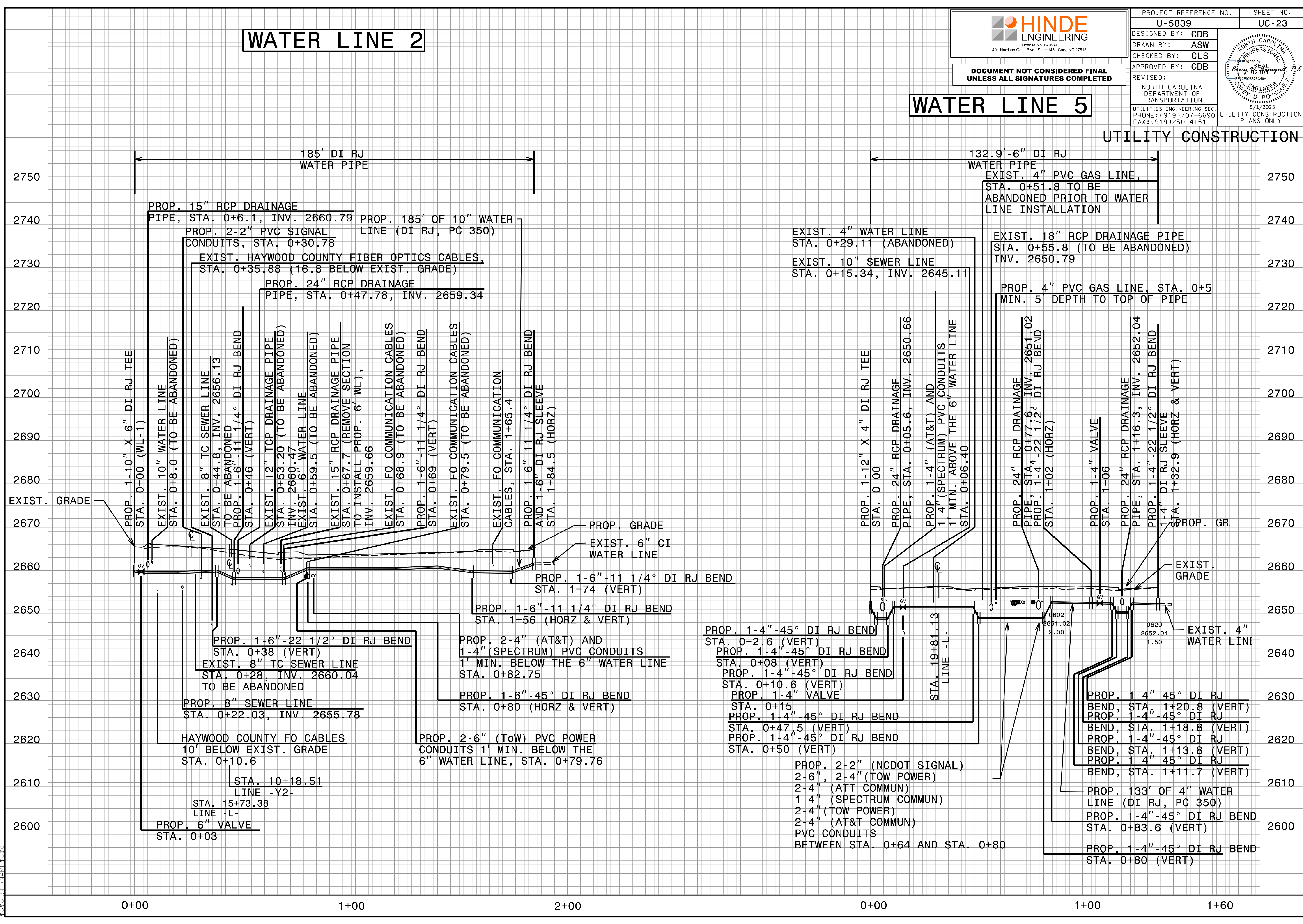
WATER LINE 5

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0+00 1+00 2+00 0+00 1+00 1+60

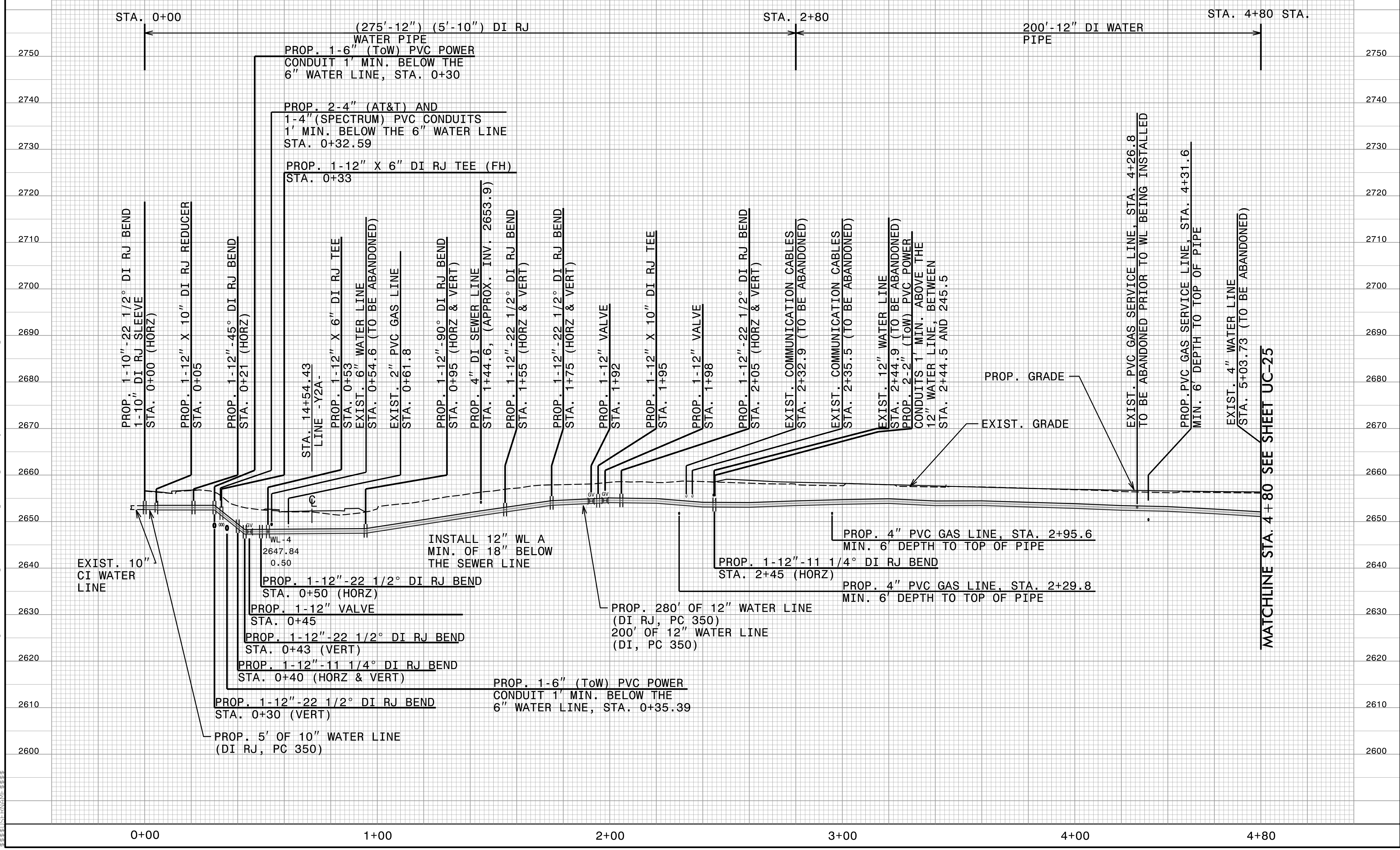
WATER LINE 3



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MATCHLINE STA. 4+80 SEE SHEET UC-25

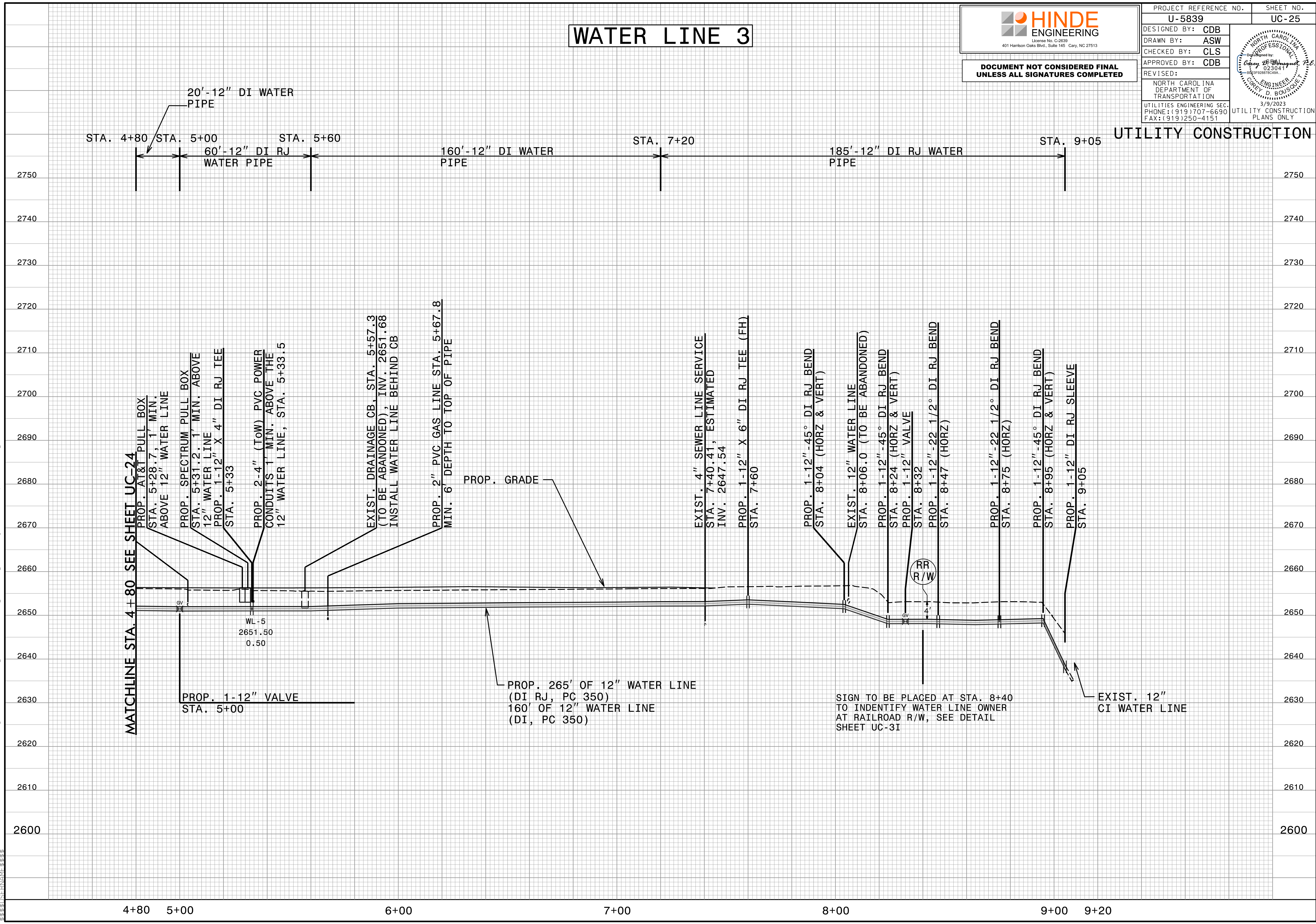
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WATER LINE 3

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4+80 5+00 6+00 7+00 8+00 9+00 9+20

PROP. 1-12" VALVE
 STA. 5+00

PROP. 265' OF 12" WATER LINE
 (DI RJ, PC 350)
 160' OF 12" WATER LINE
 (DI, PC 350)

SIGN TO BE PLACED AT STA. 8+40
 TO IDENTIFY WATER LINE OWNER
 AT RAILROAD R/W, SEE DETAIL
 SHEET UC-31

EXIST. 12"
 CI WATER LINE

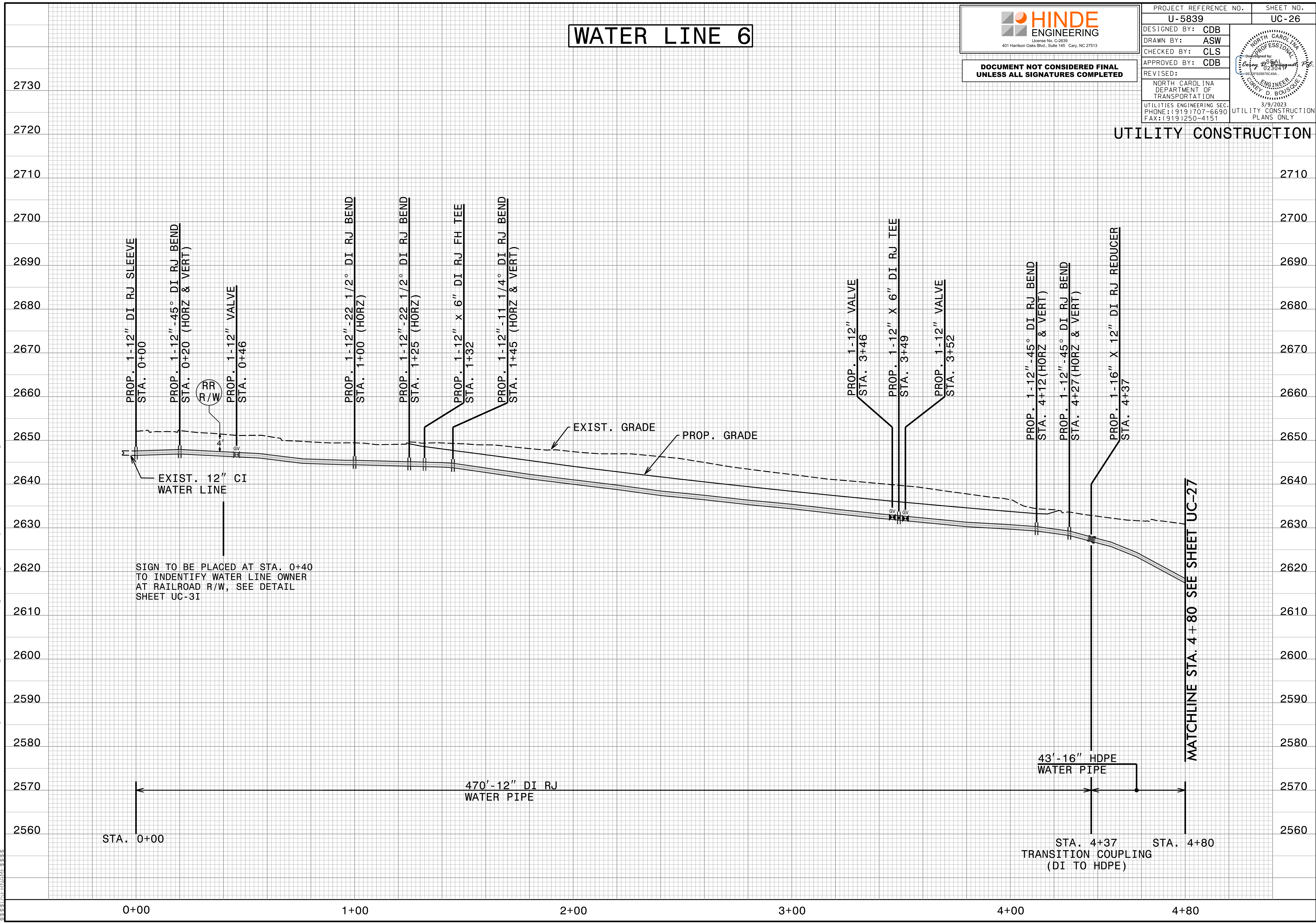
WATER LINE 6

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WATER LINE 6

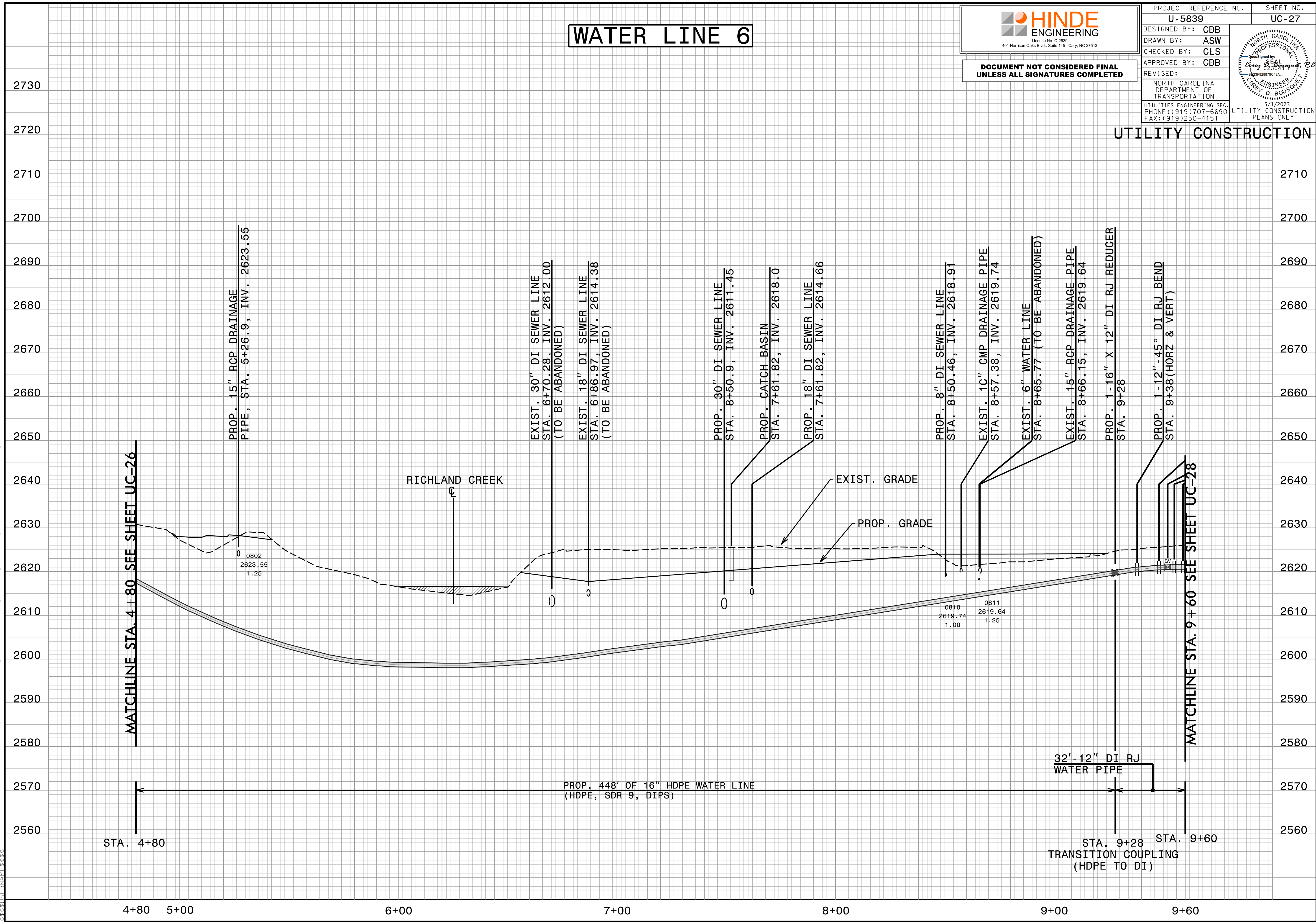
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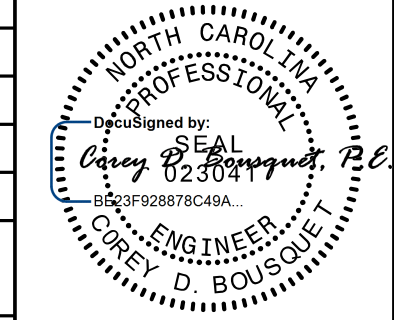
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WATER LINE 6

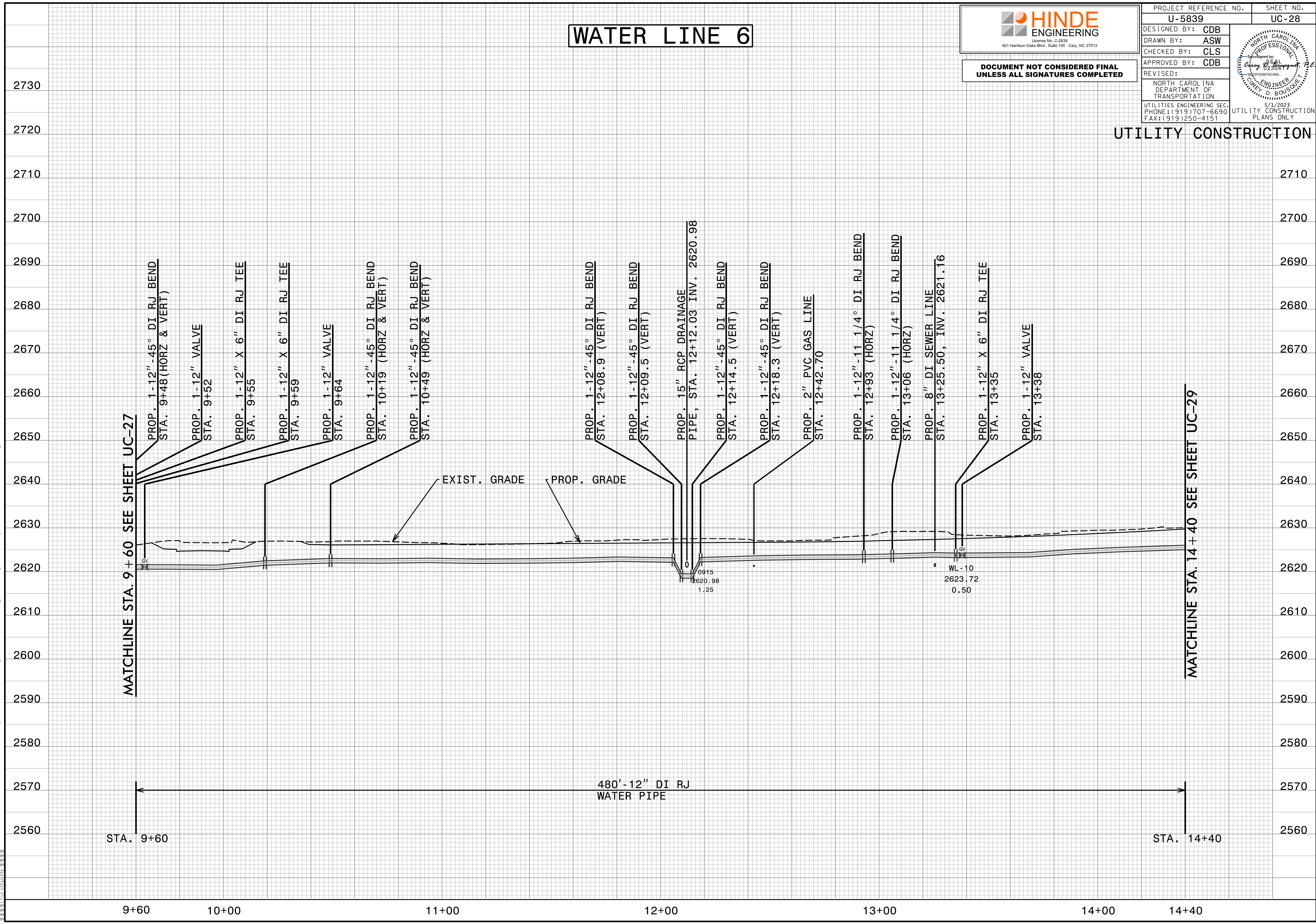
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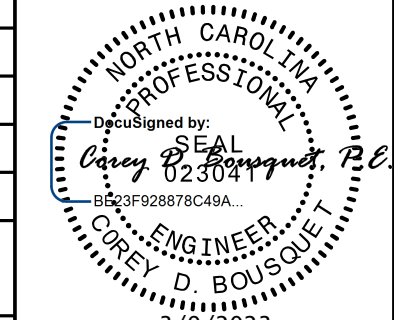
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WATER LINE 6

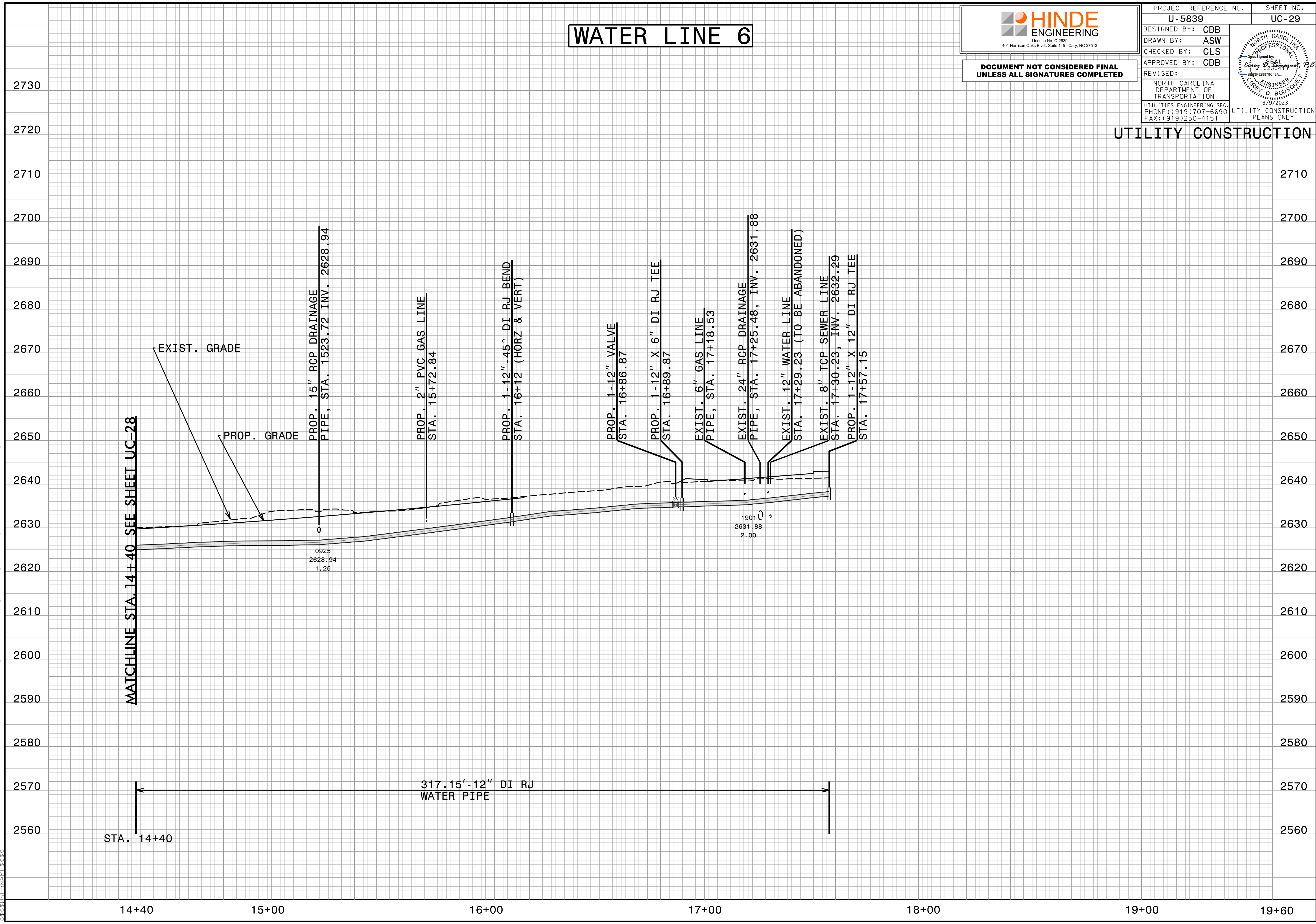
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| PROJECT REFERENCE NO. U-5839 | SHEET NO. UC-29 |
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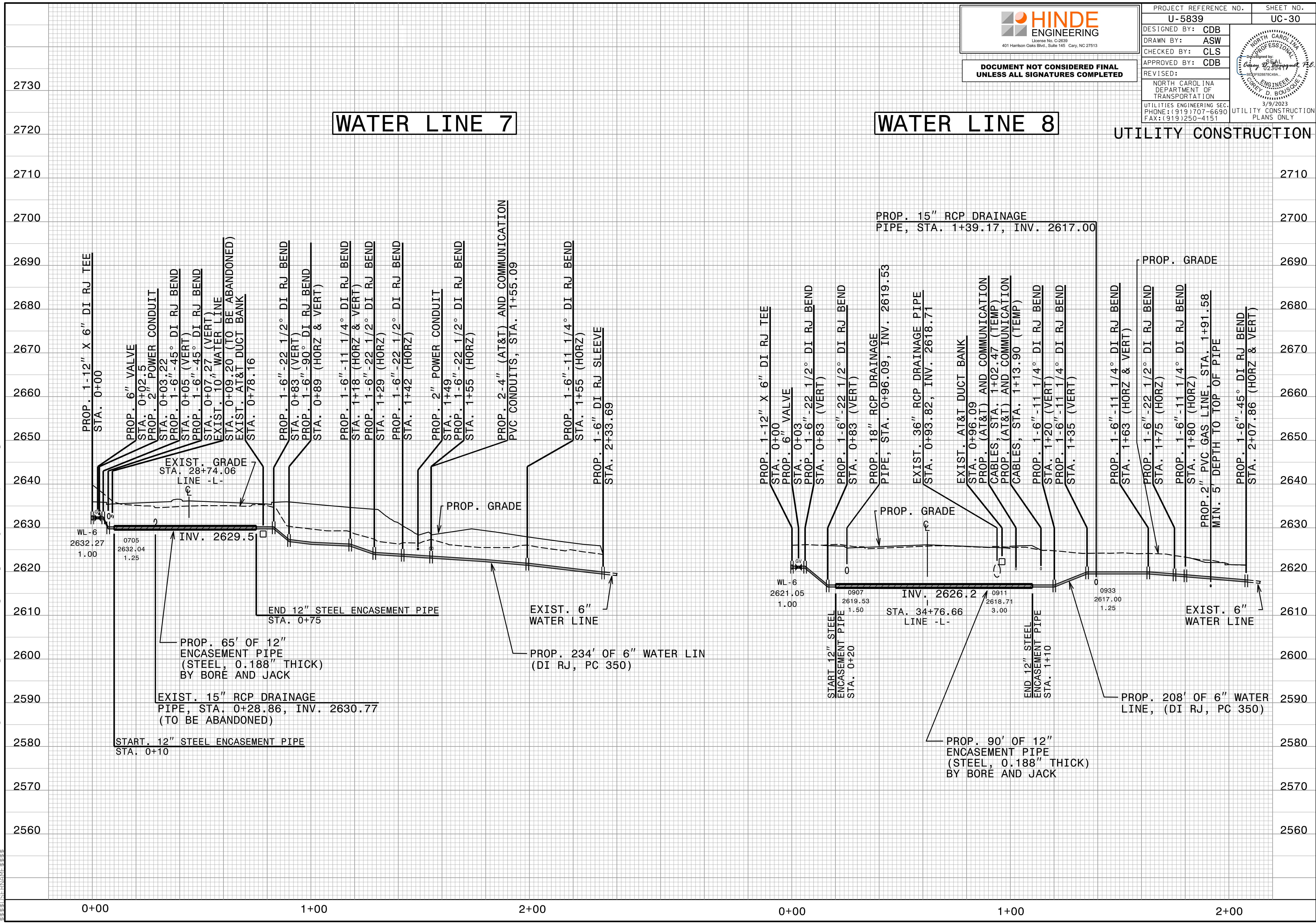


14+40 15+00 16+00 17+00 18+00 19+00 19+60

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WATER LINE 7

WATER LINE 8

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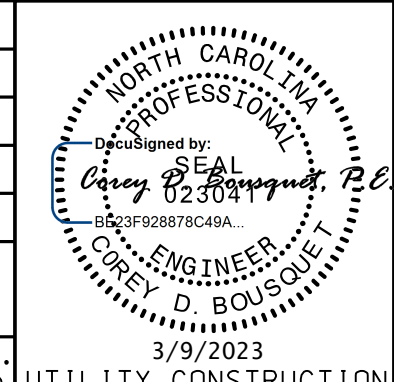
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WATER LINE 10

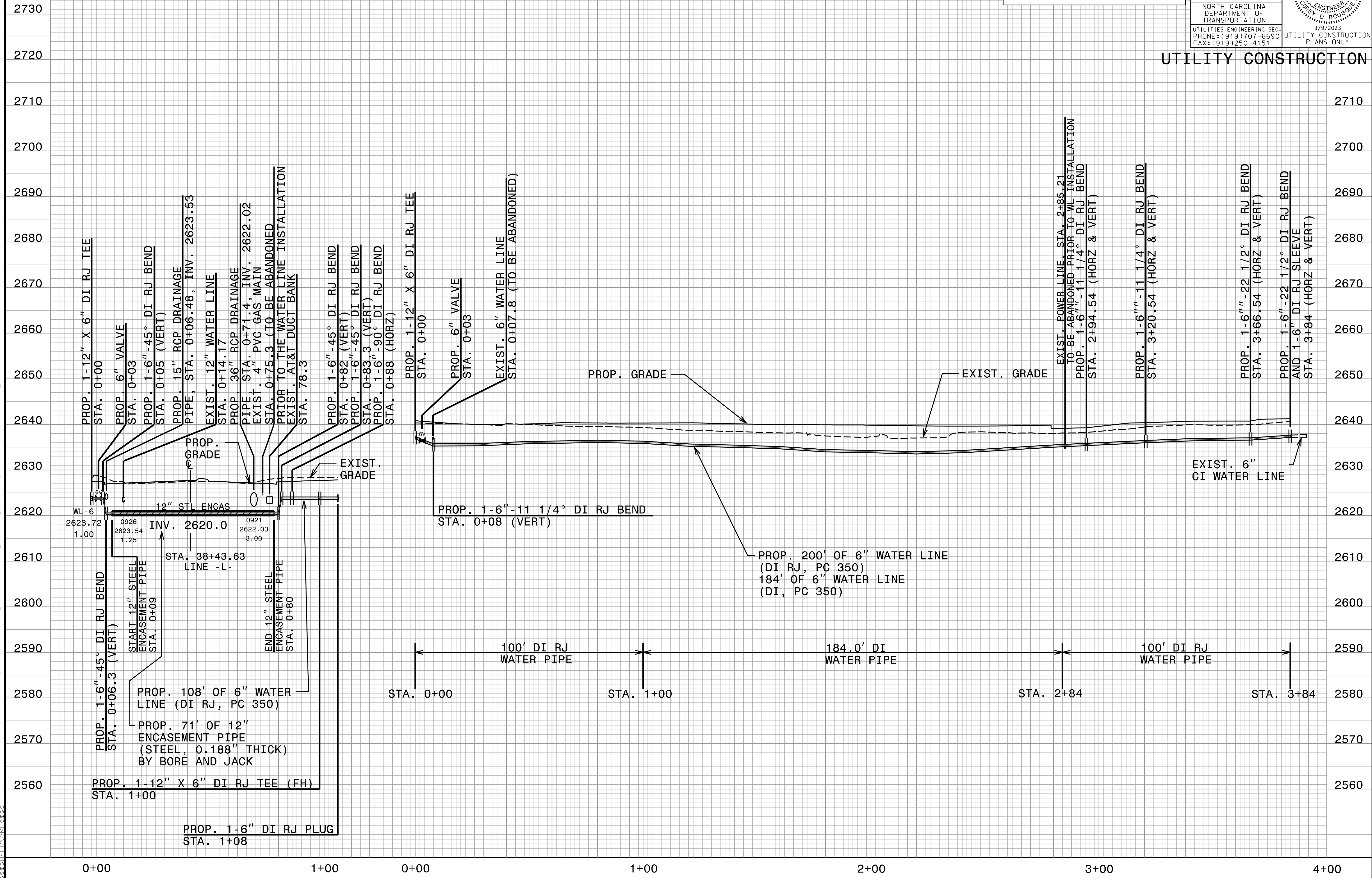
WATER LINE 11

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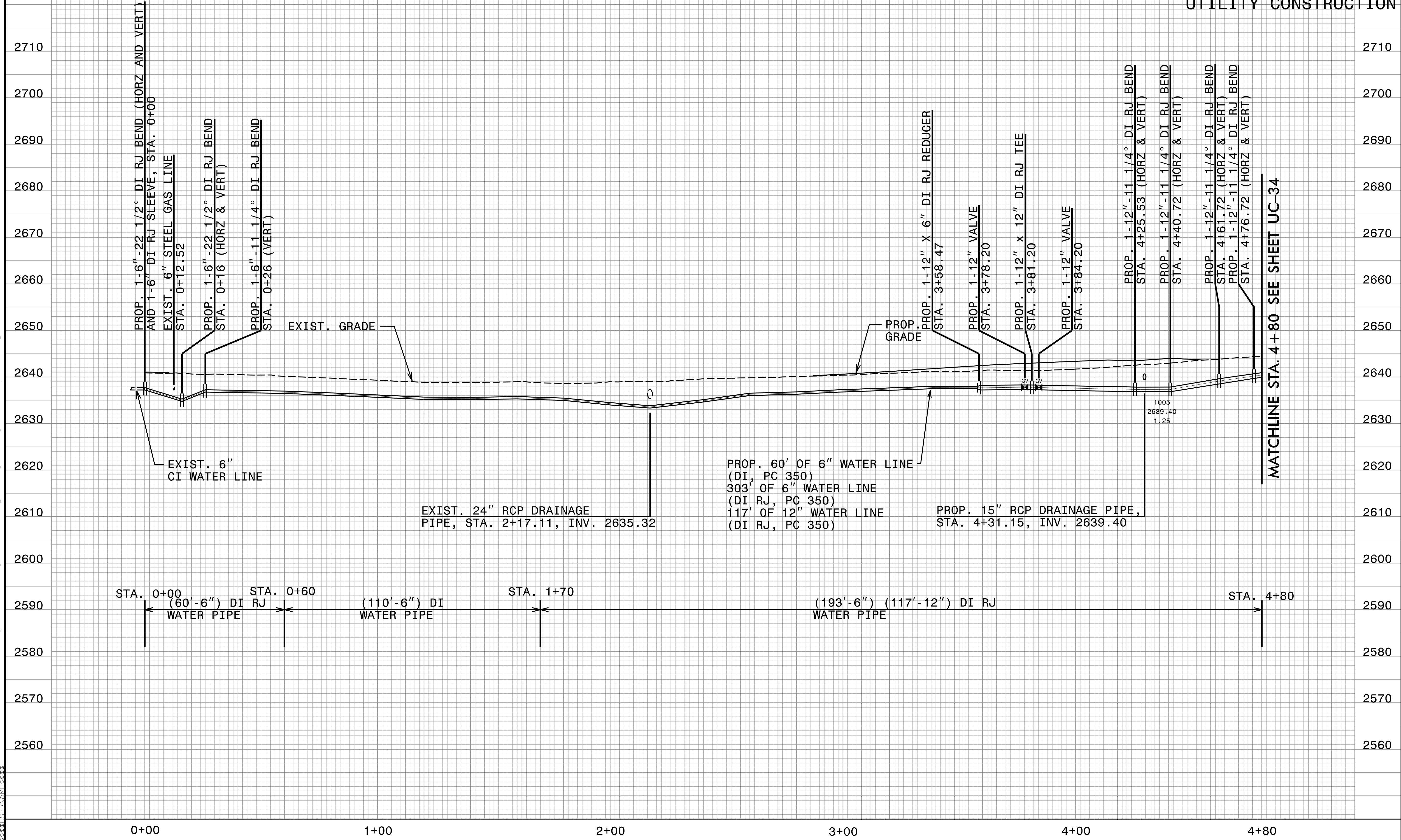
WATER LINE 12

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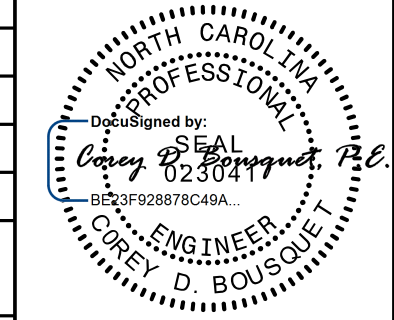


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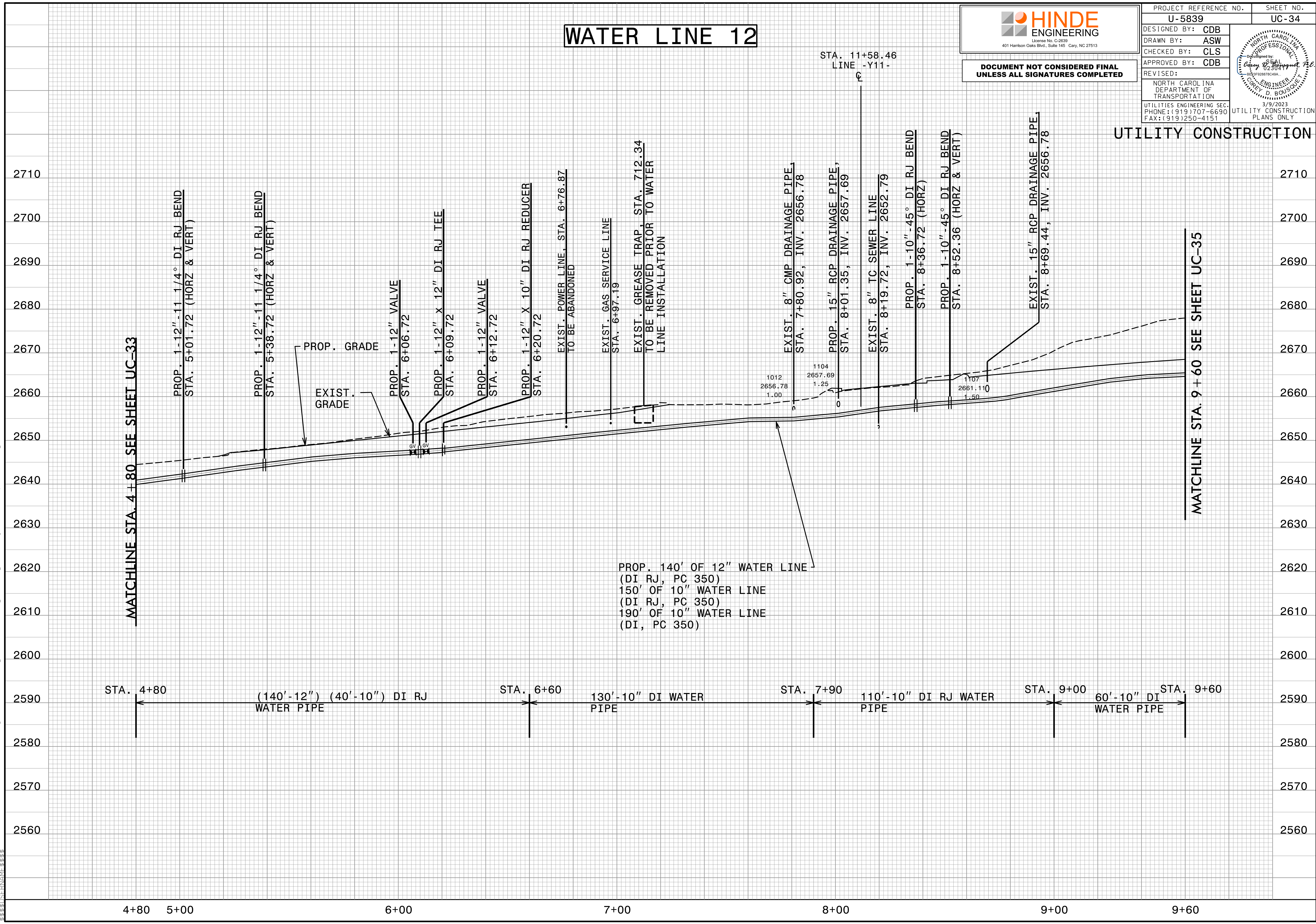
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WATER LINE 12

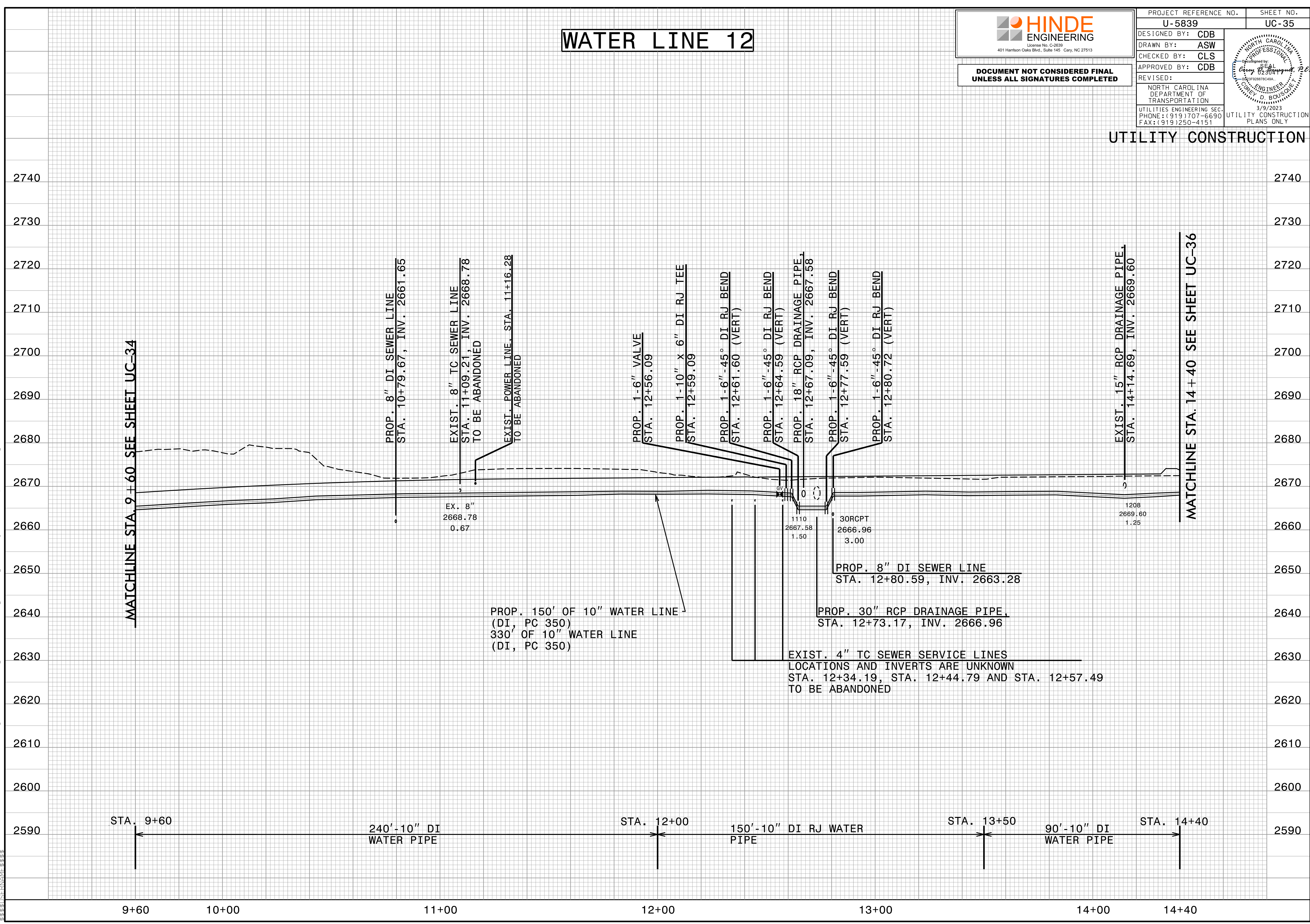
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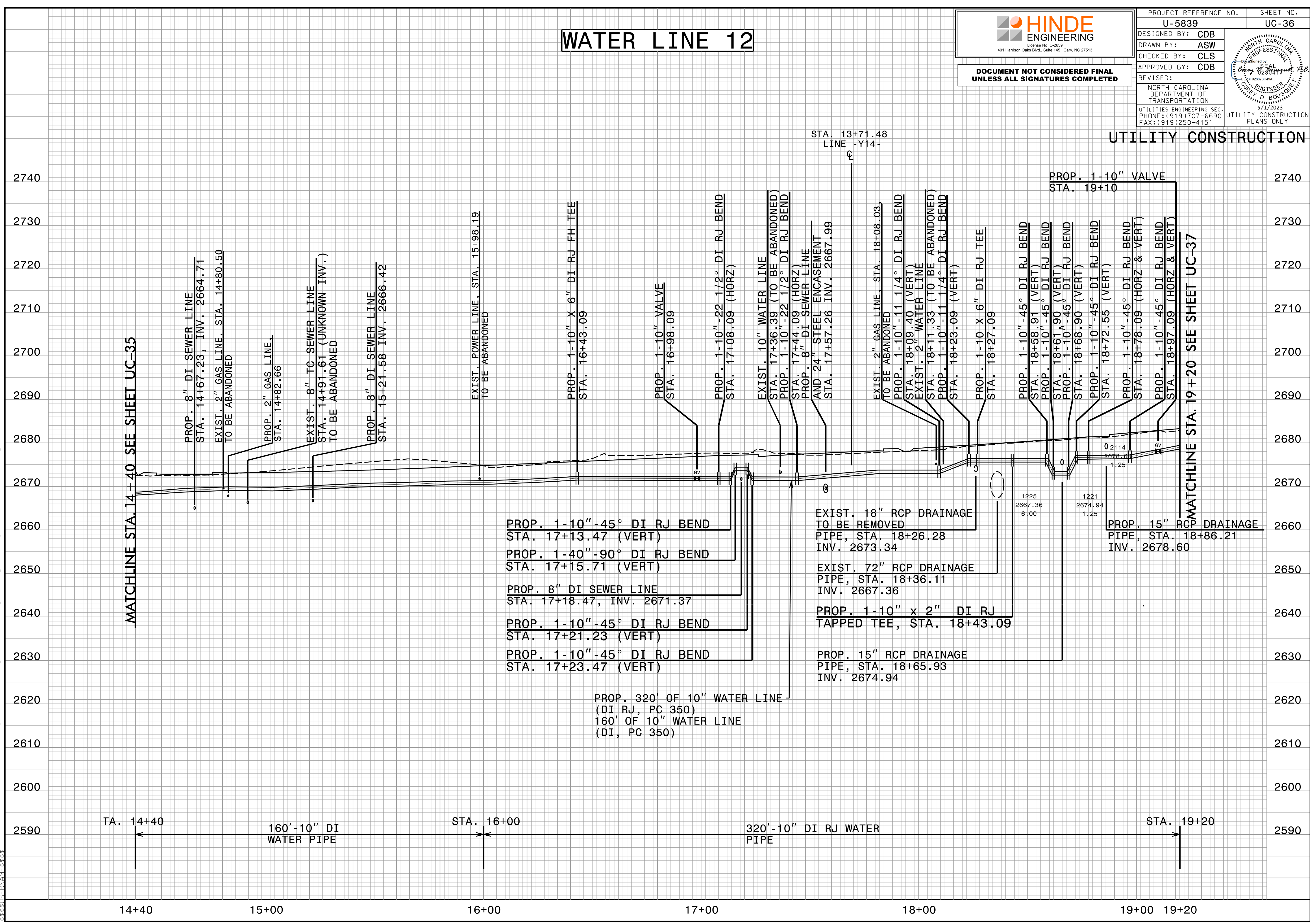
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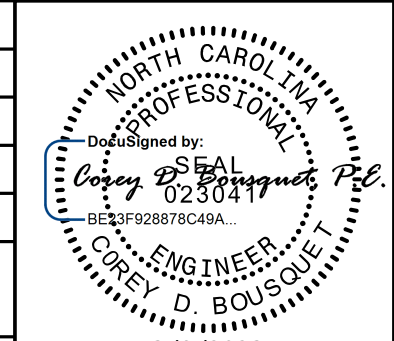


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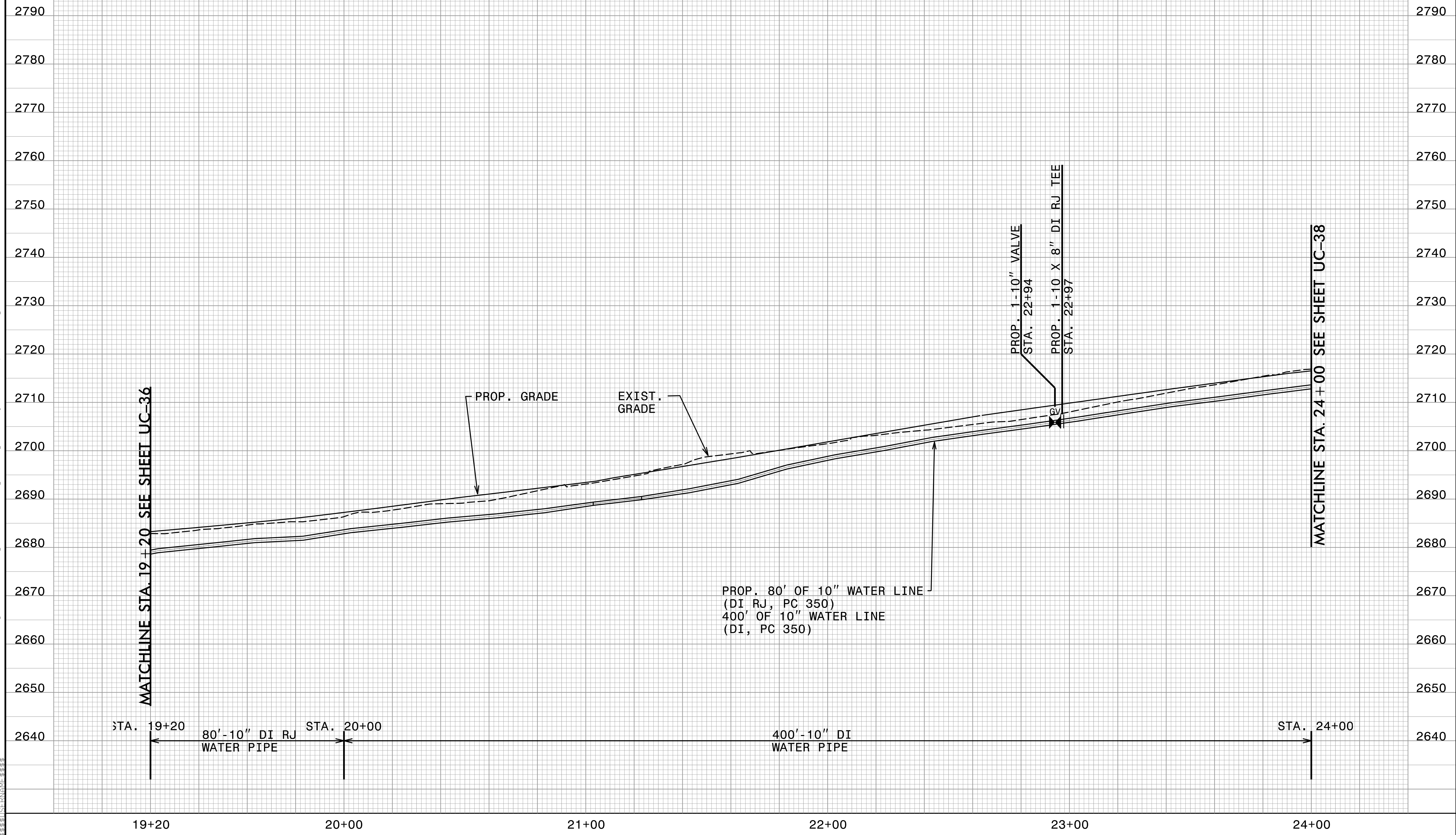
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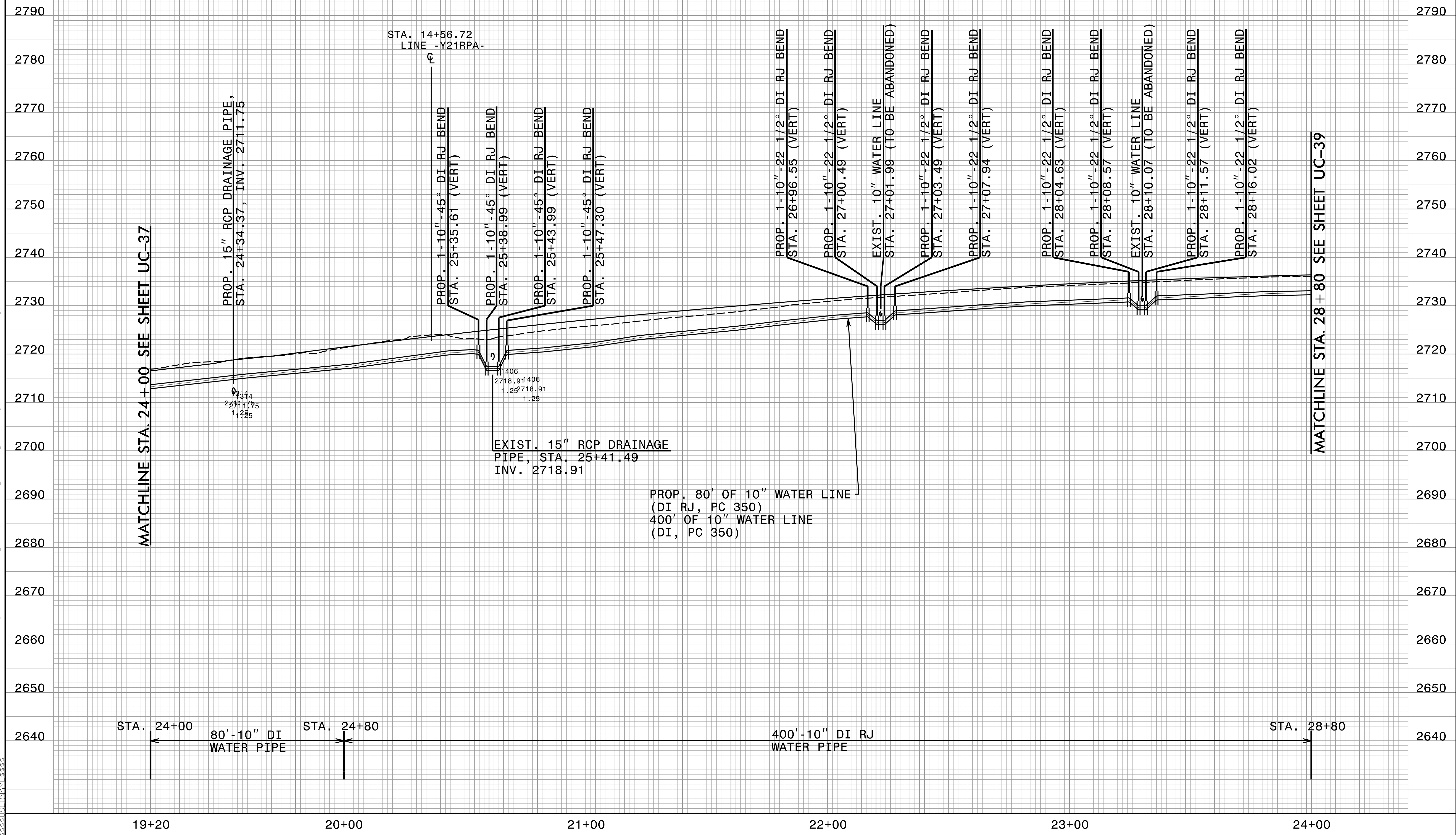
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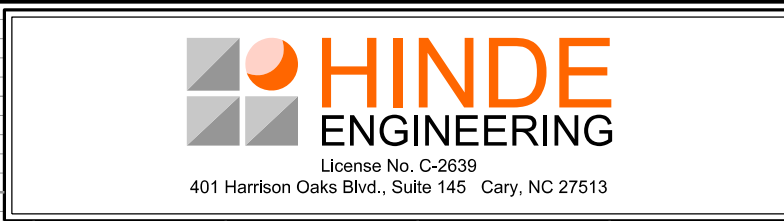
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| REVISED: | |
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UTILITY CONSTRUCTION

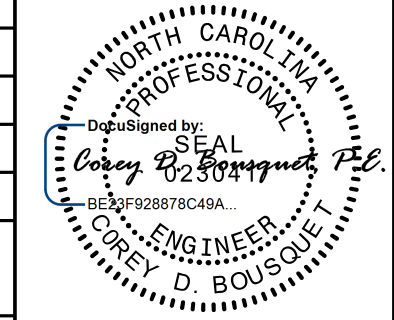


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WATER LINE 12

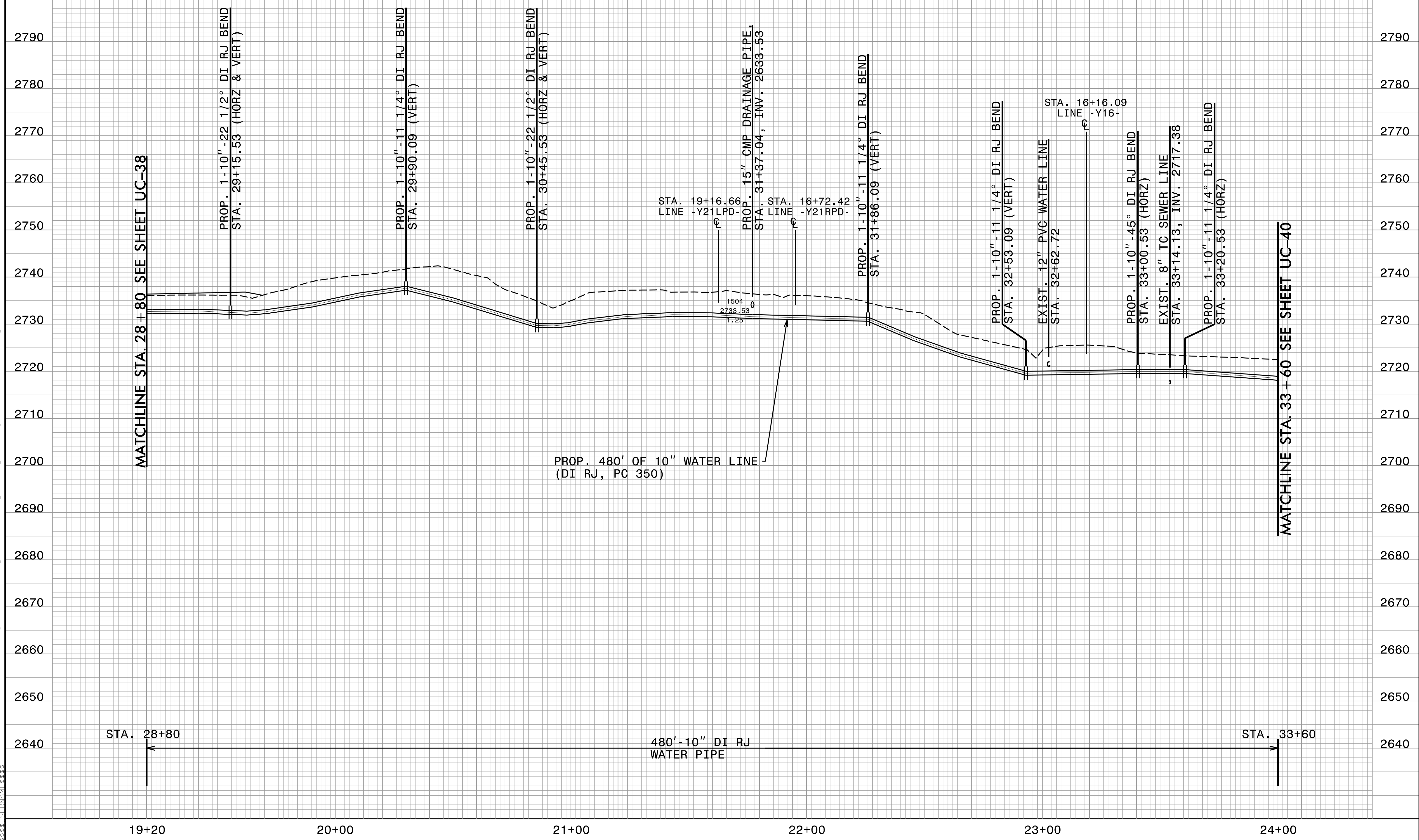


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| DESIGNED BY: CDB |  |
| DRAWN BY: ASW | |
| CHECKED BY: CLS | |
| APPROVED BY: CDB | |
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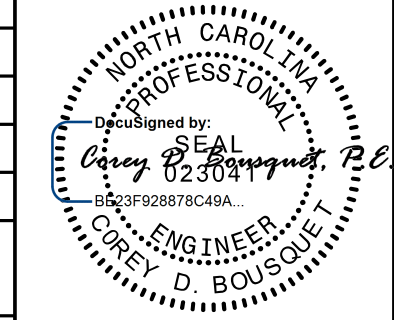
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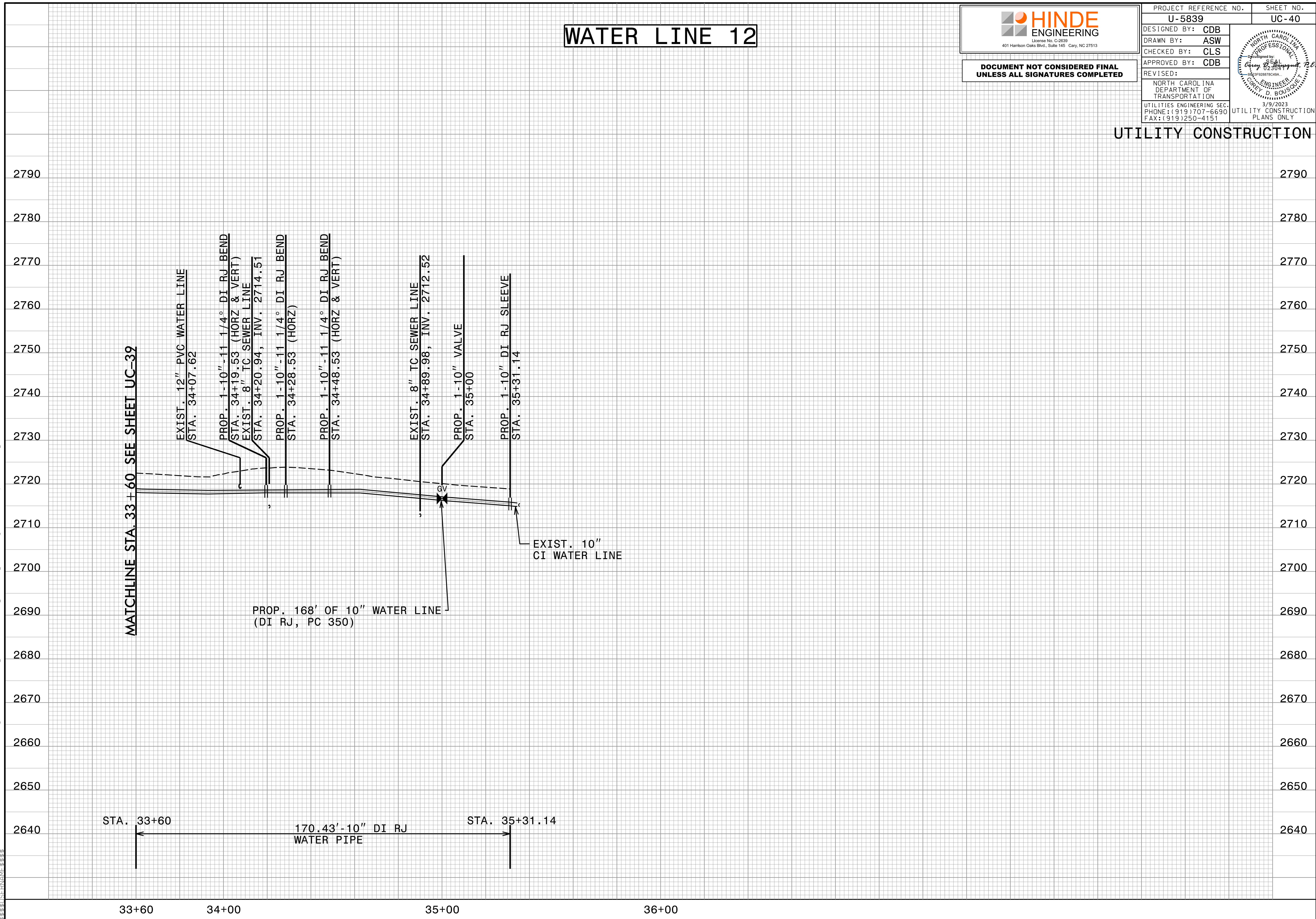
WATER LINE 12

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| DESIGNED BY: CDB |  |
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| APPROVED BY: CDB | |
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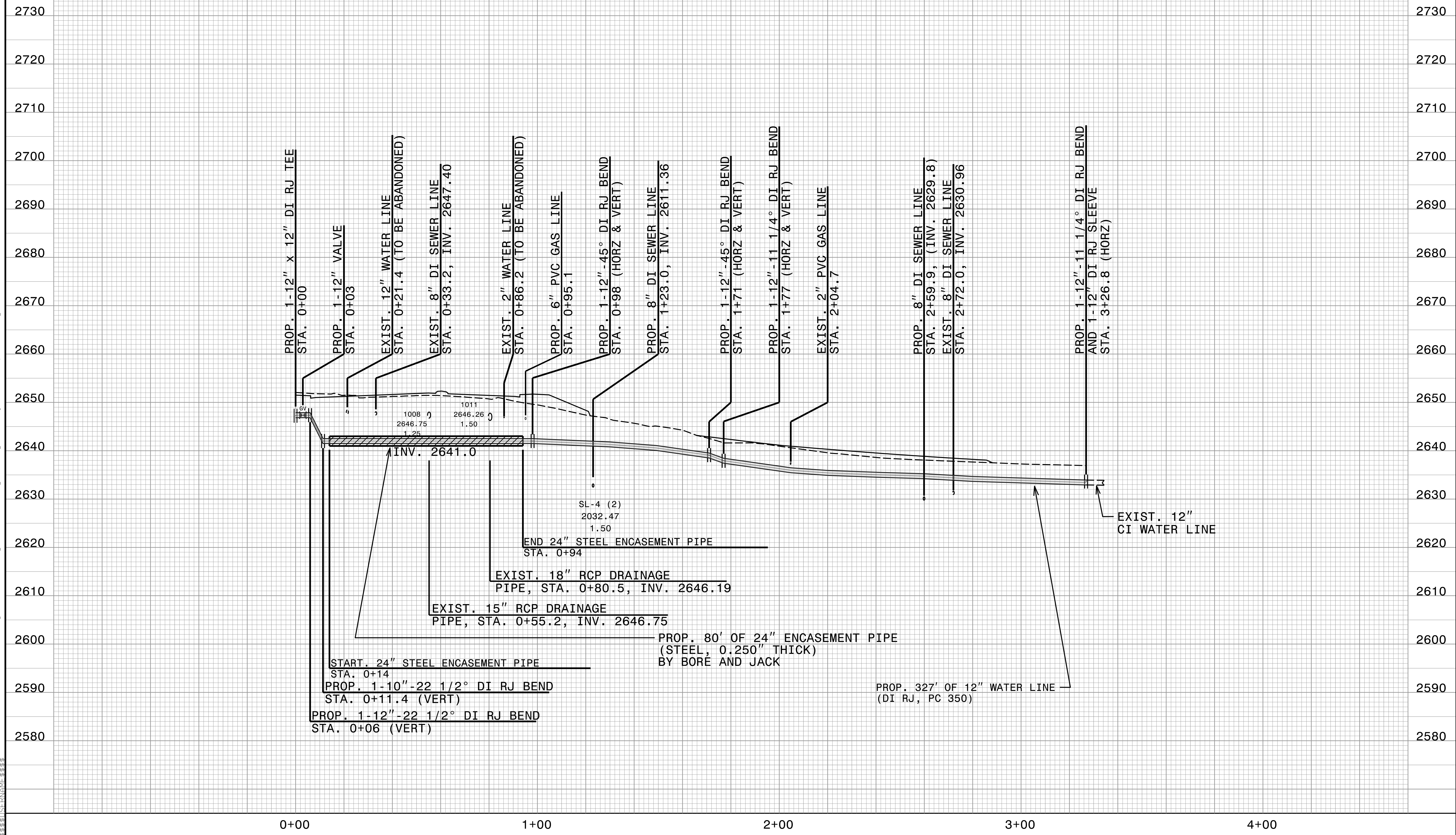
WATER LINE 13

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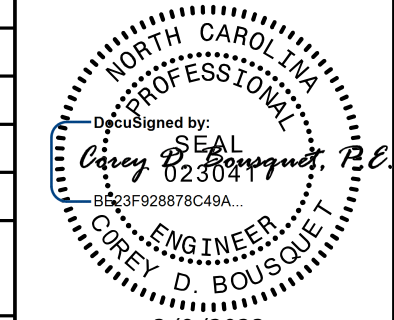


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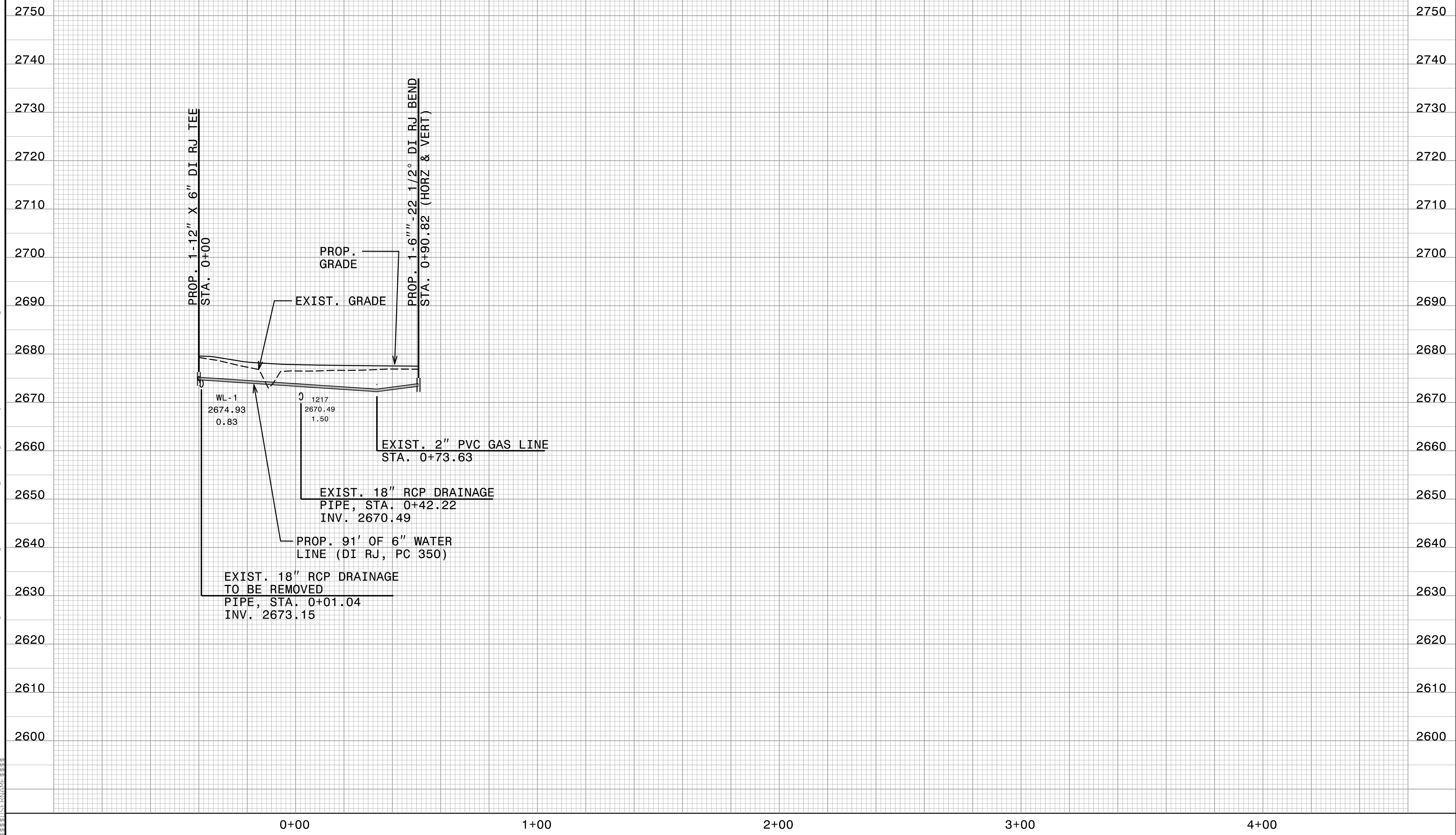
WATER LINE 14

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| CHECKED BY: CLS | |
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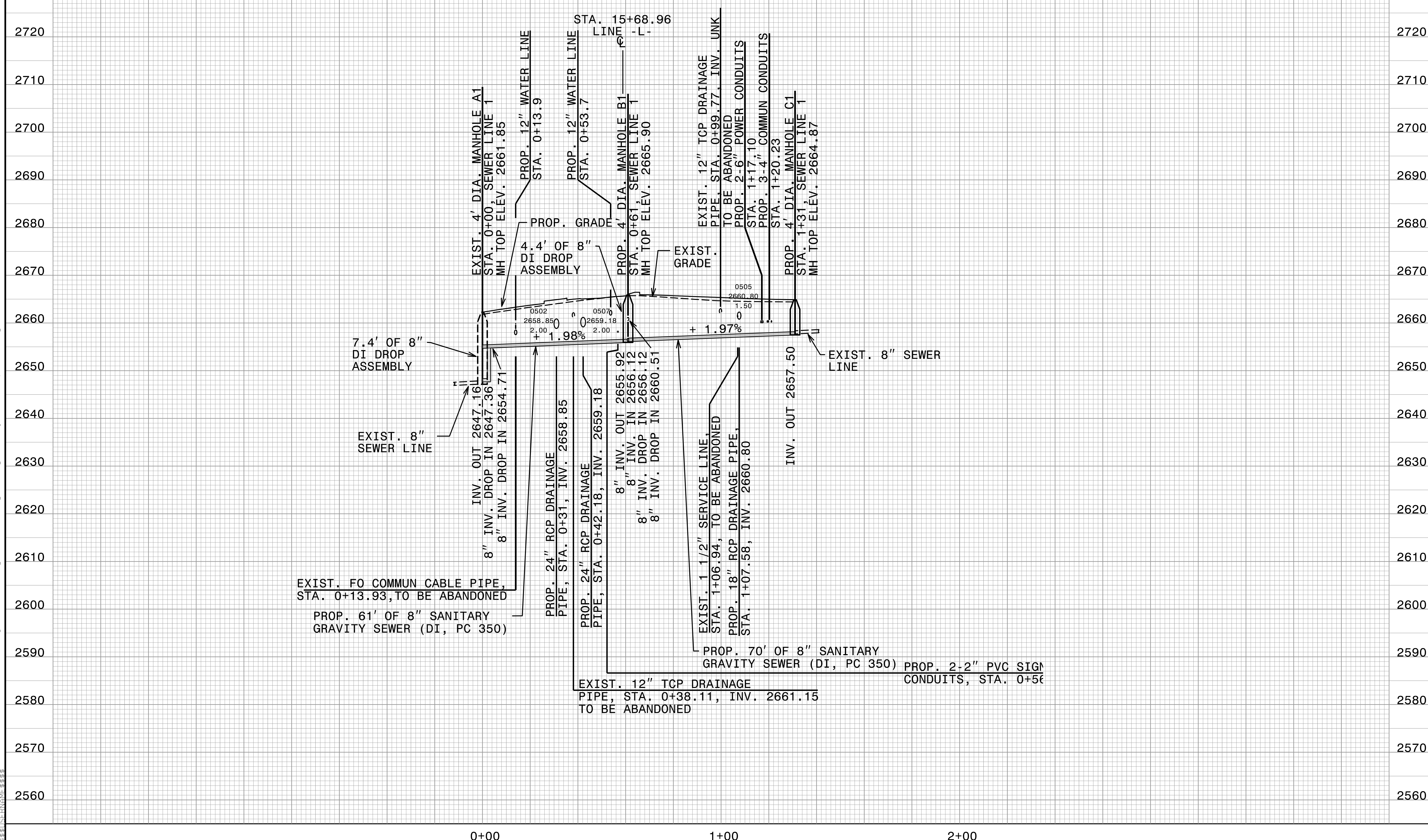
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| DESIGNED BY: CDB | |
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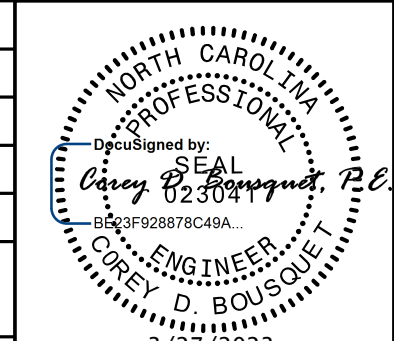


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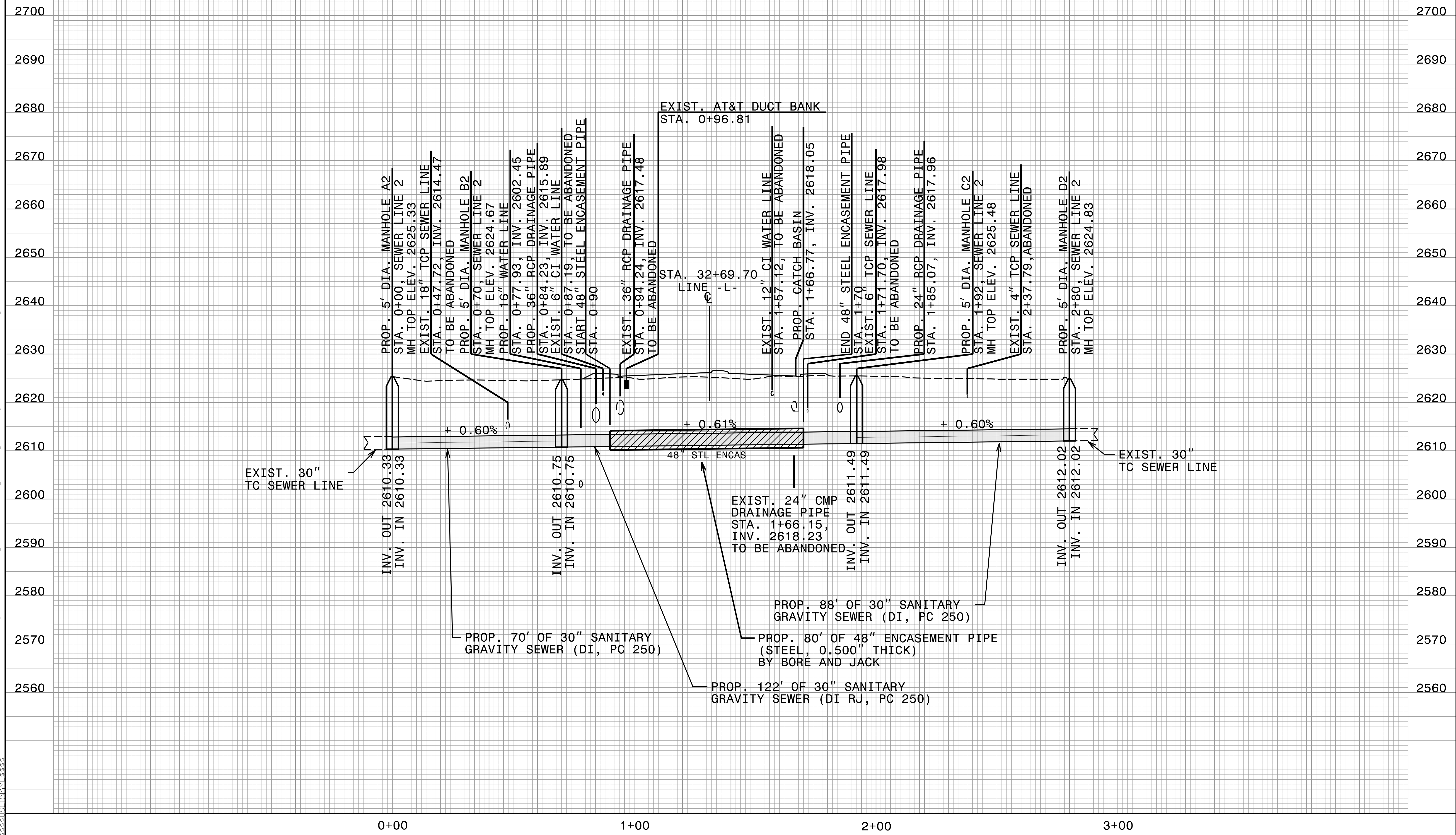
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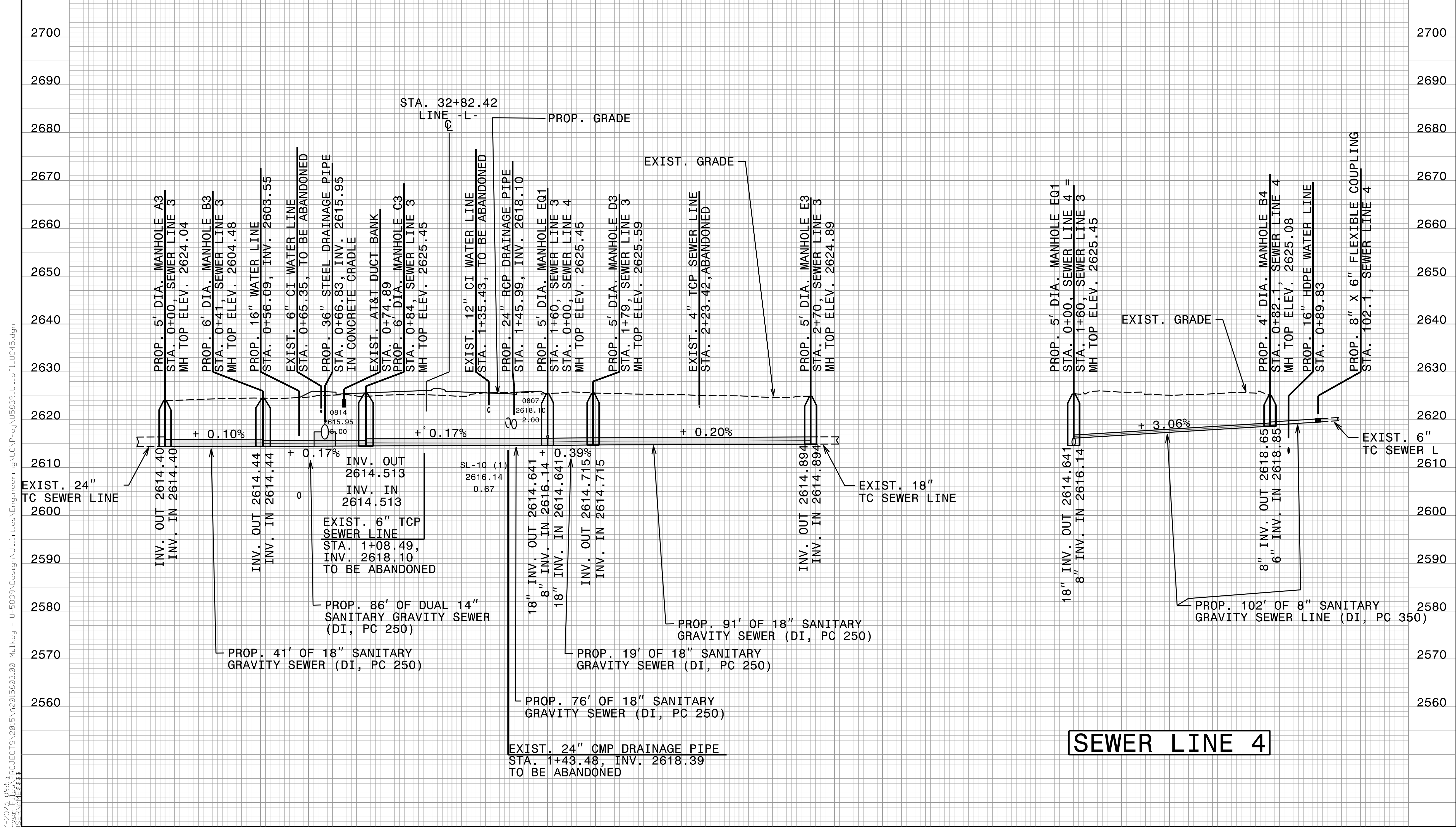
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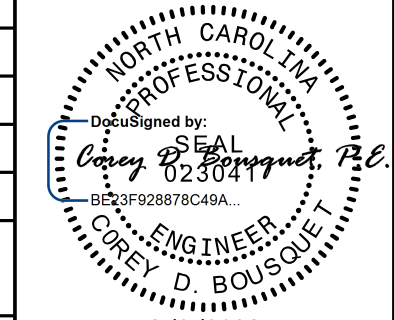
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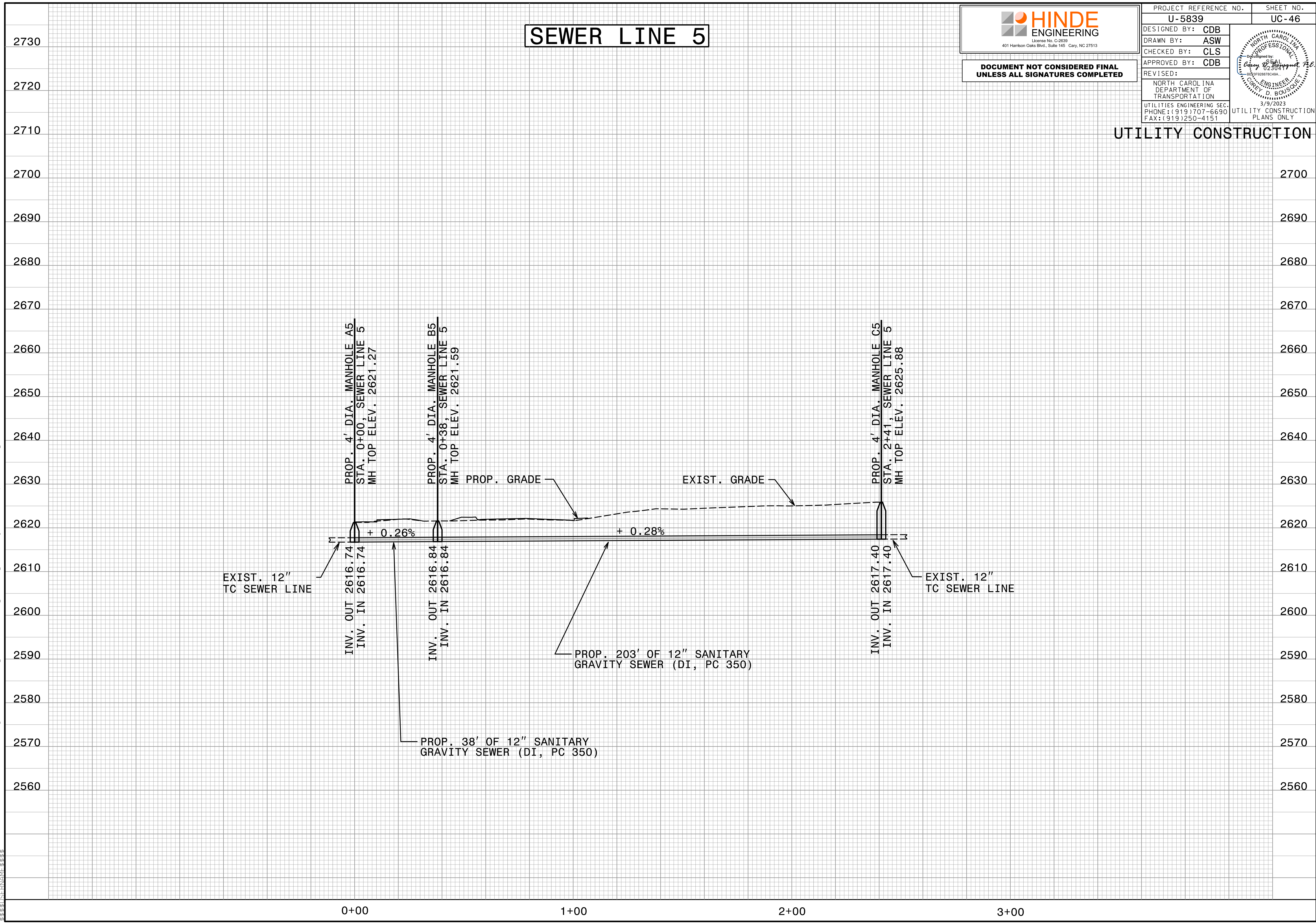
SEWER LINE 5

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| DESIGNED BY: CDB |  |
| DRAWN BY: ASW | |
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| APPROVED BY: CDB | |
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SEWER LINE 5A



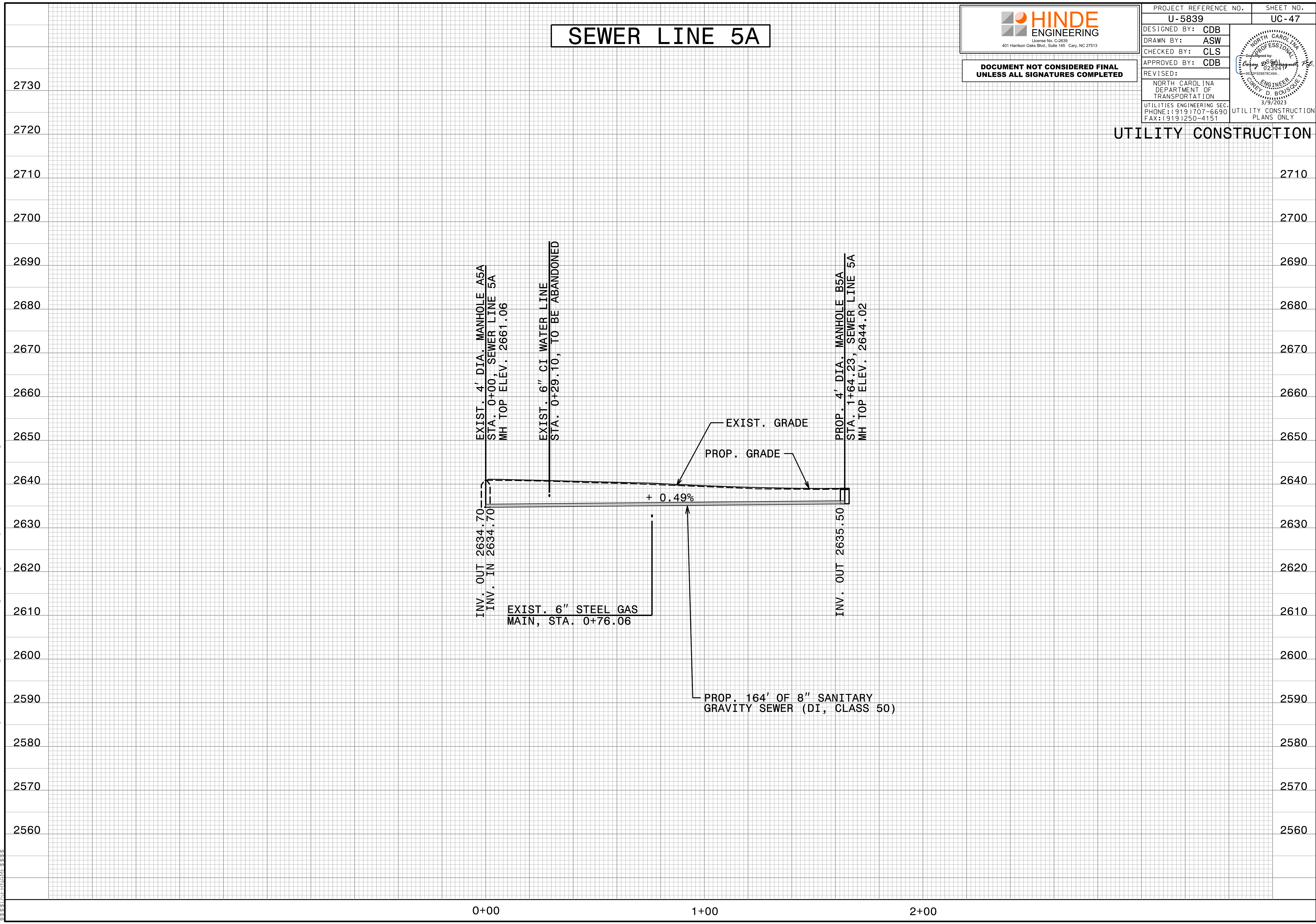
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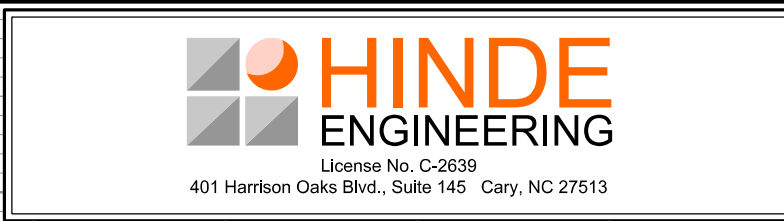
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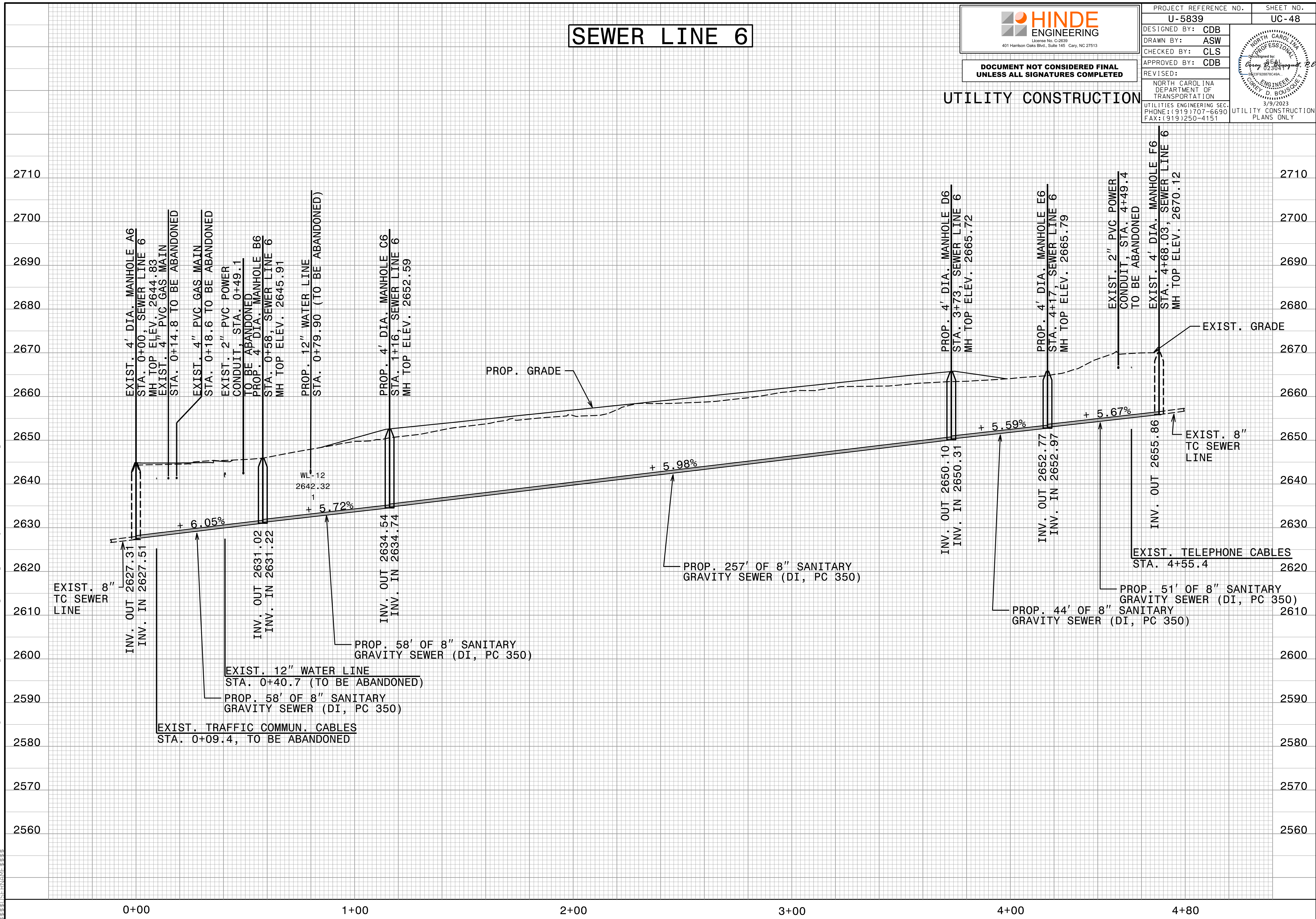
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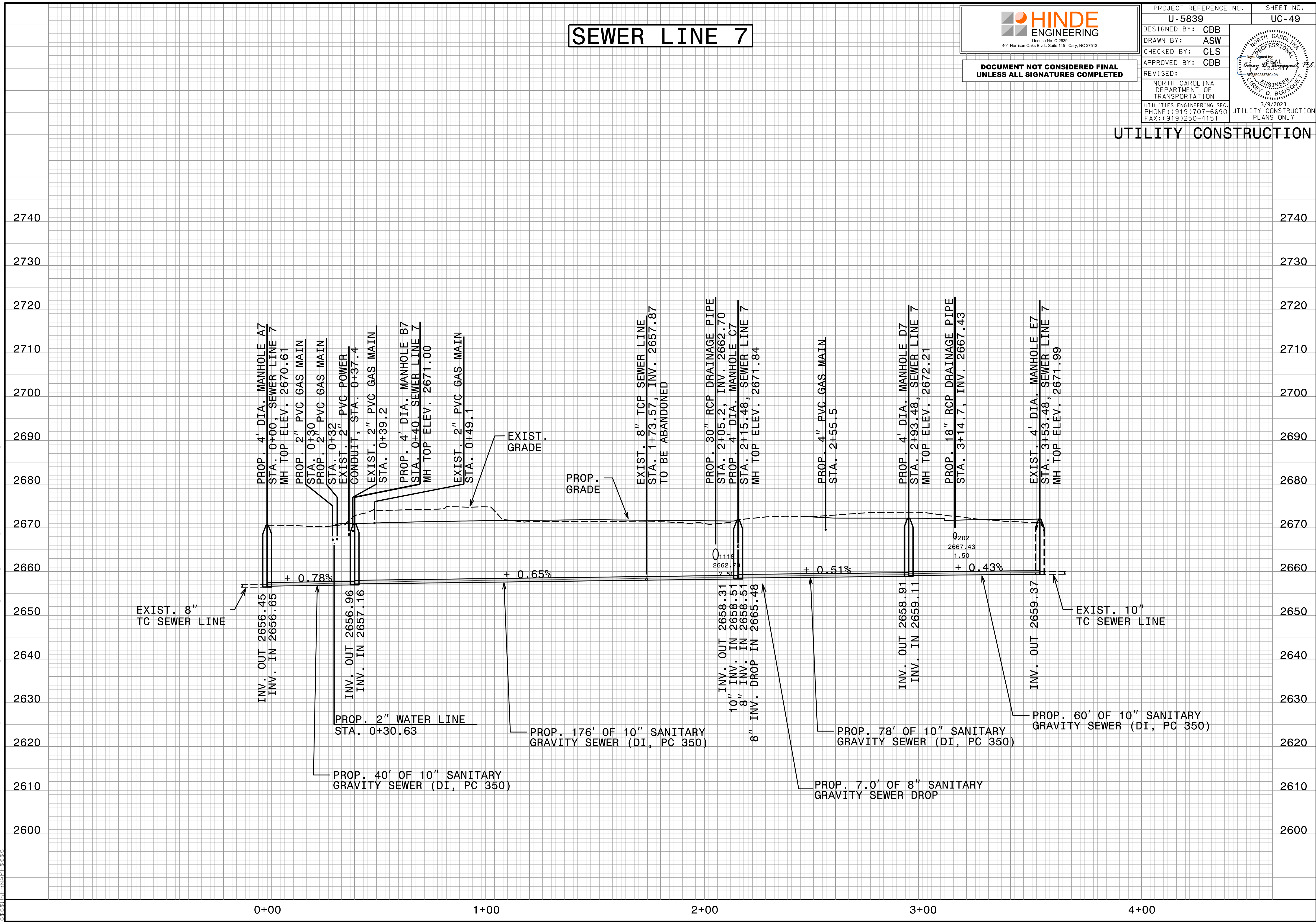
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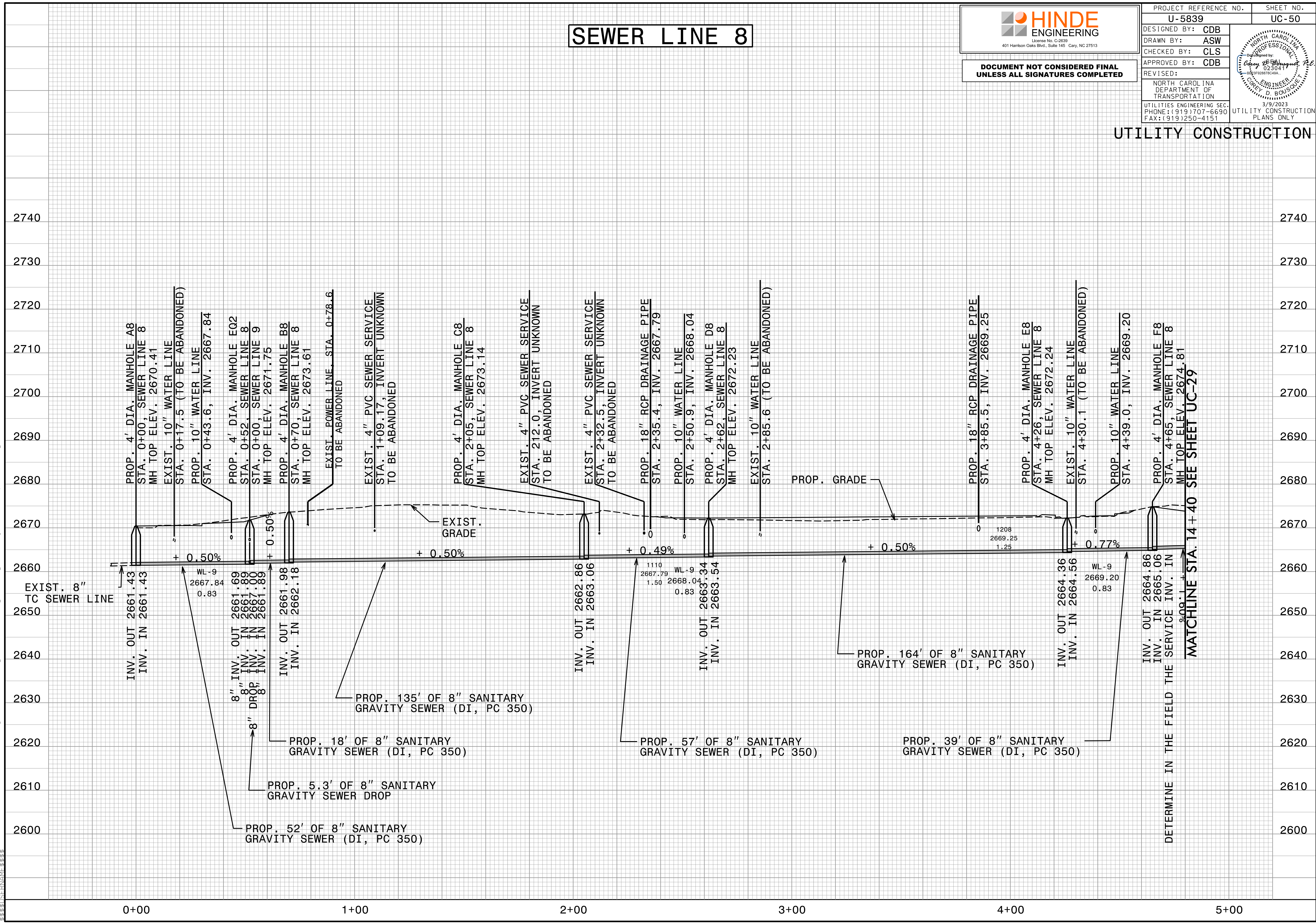
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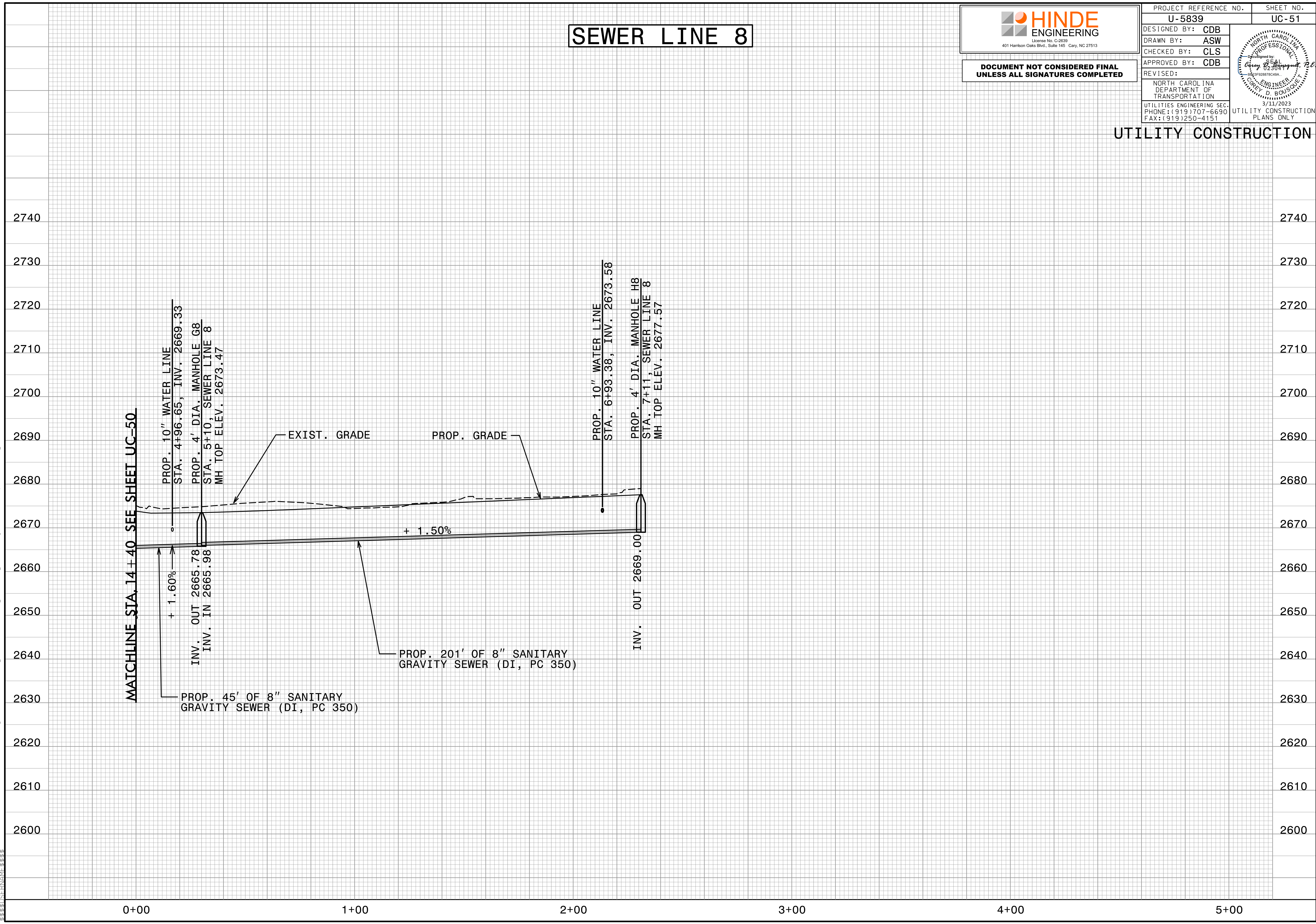
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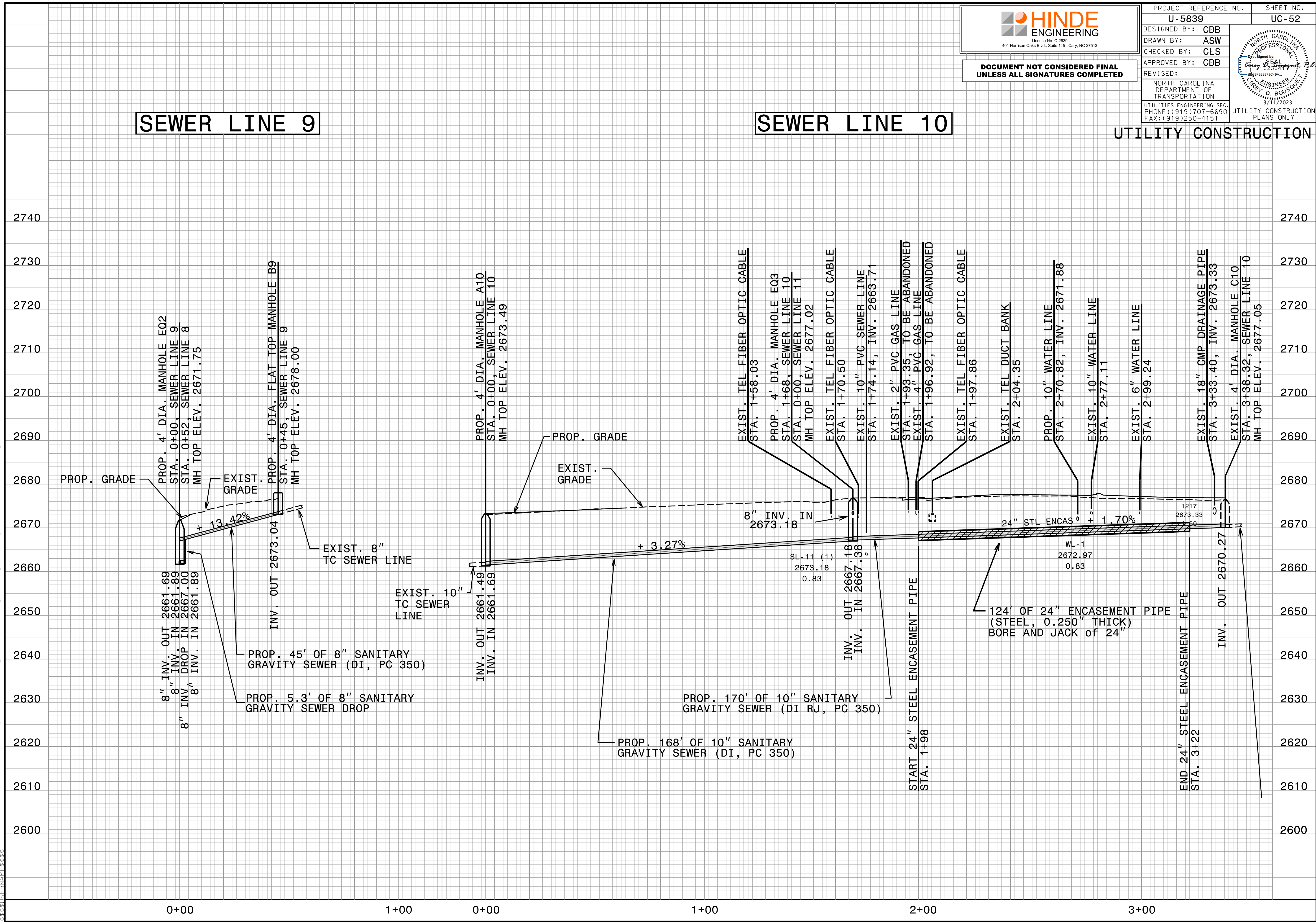
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SEWER LINE 9

SEWER LINE 10

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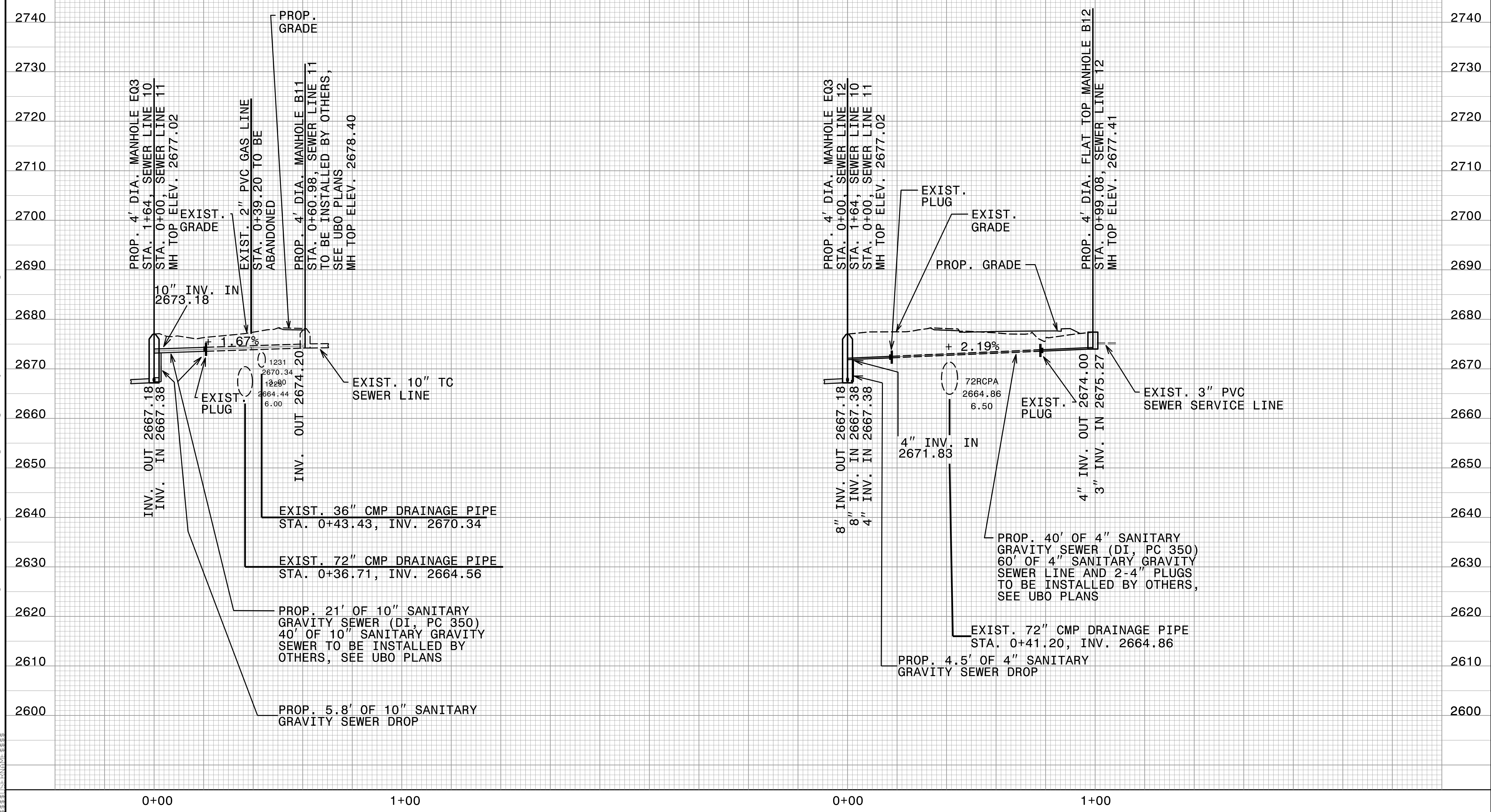
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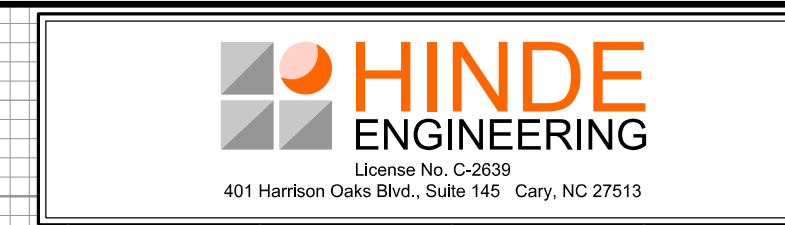
SEWER LINE 11

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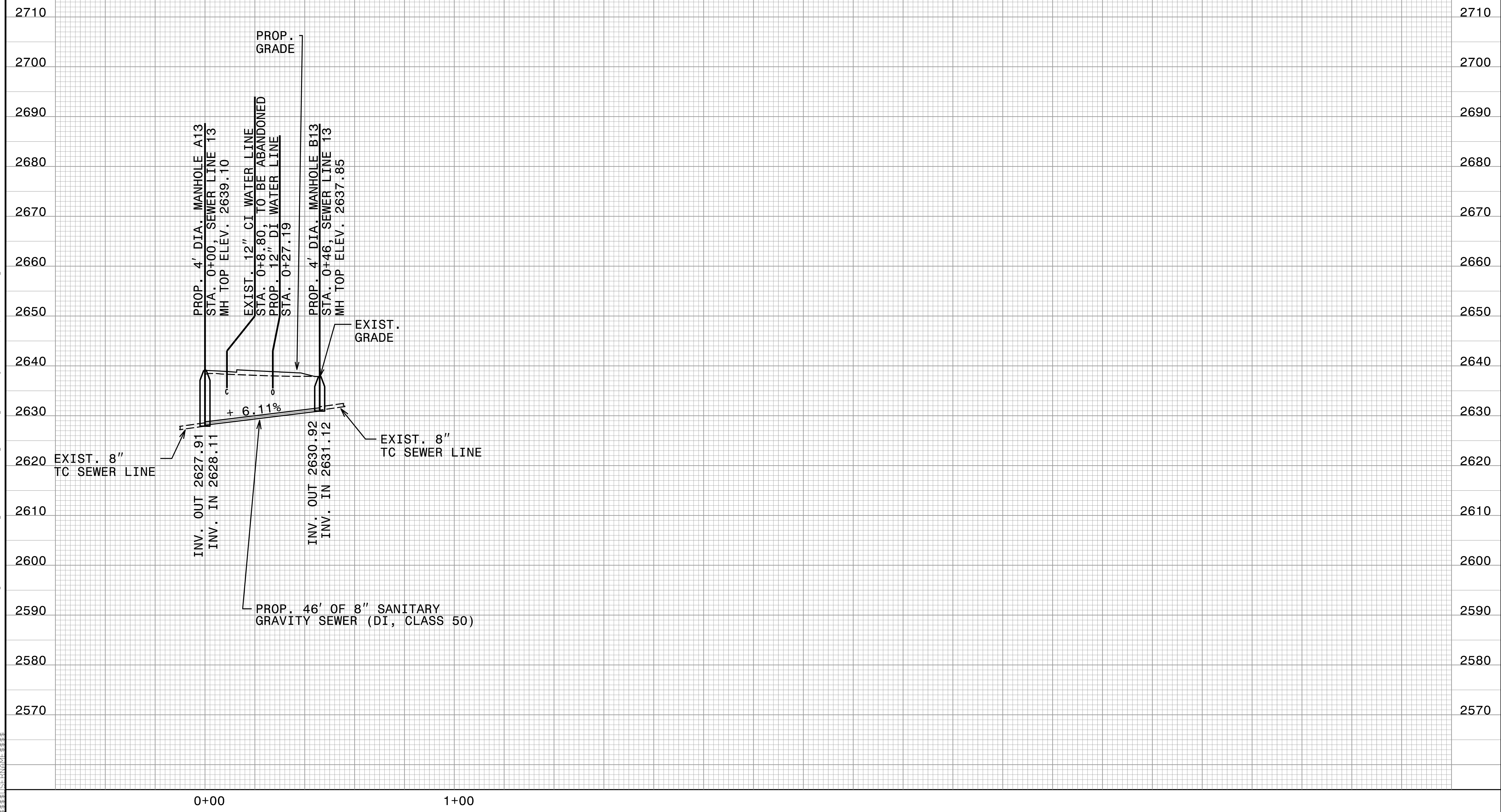


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