

PROJECT: GREENBRIER STREAM RESTORATION

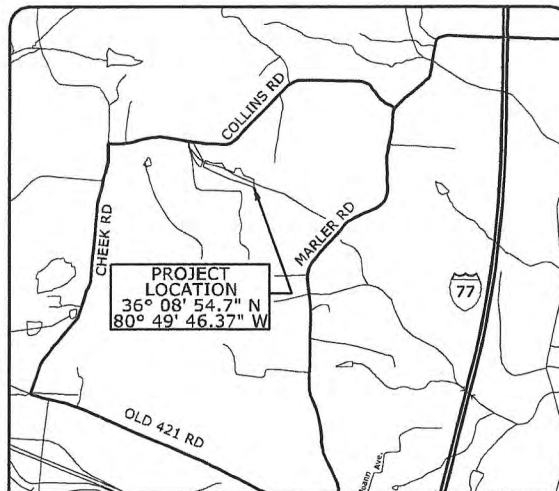
NC DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF MITIGATION SERVICES

STATE	PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
NC	104	1	7

YADKIN COUNTY

LOCATION: COLLINS RD, YADKIN COUNTY, NC

TYPE OF WORK: RECORD DRAWINGS



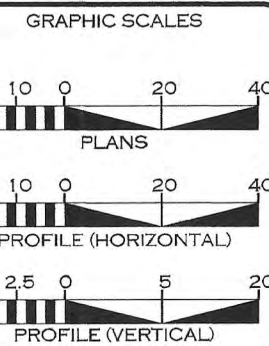
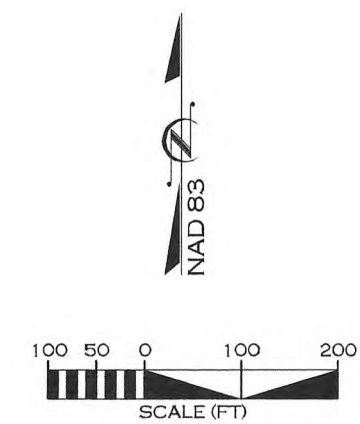
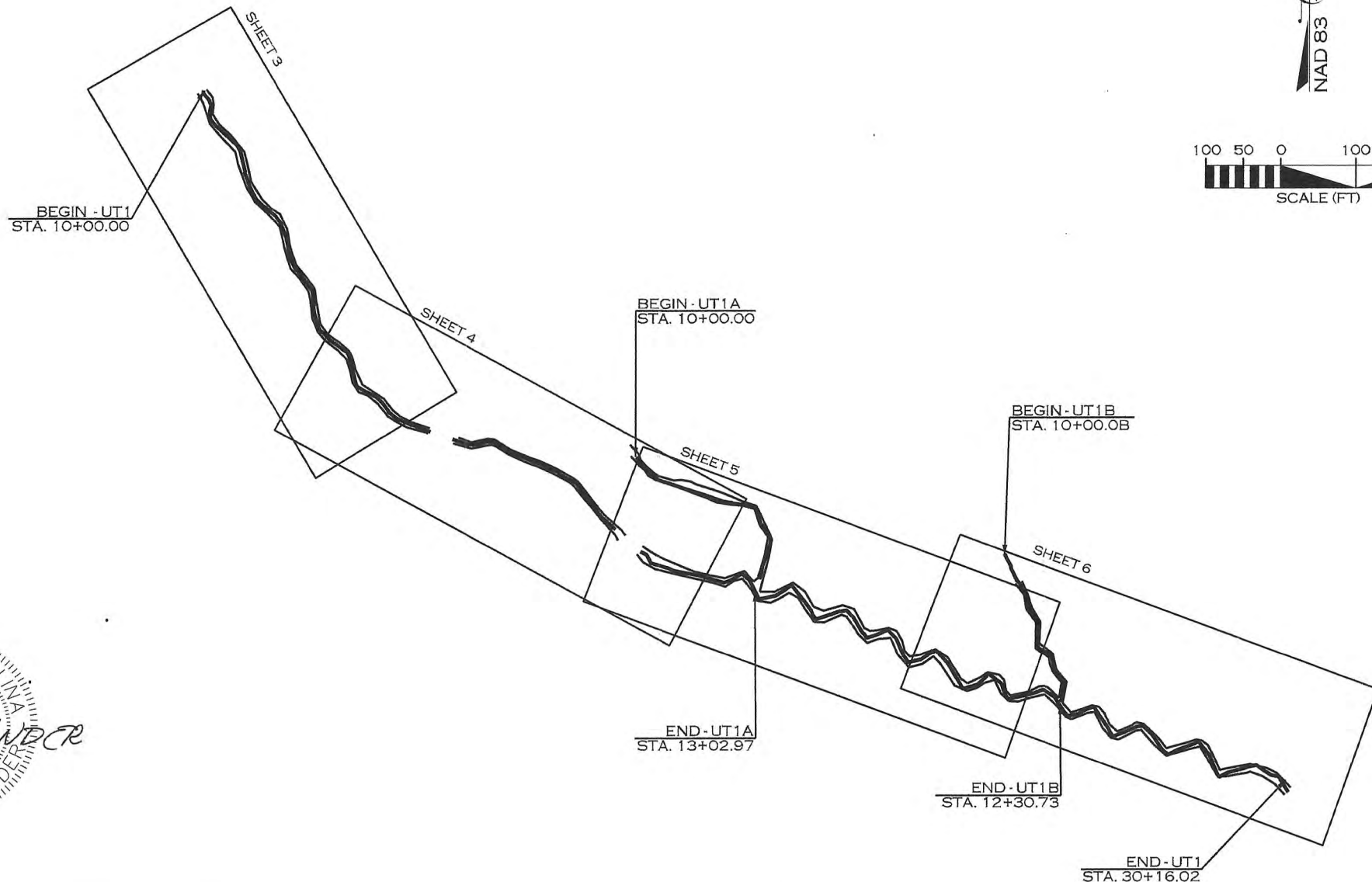
VICINITY MAP

INDEX OF SHEETS

- 1... TITLE SHEET
- 2... STREAM CONVENTIONAL SYMBOLS
GENERAL NOTES
- 3-6... PLAN AND PROFILE
- 7... PROFILE (UT1A AND UT1B ONLY)

I, Franklin G. Kinder, certify that this map was drawn under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey.
Class of survey: A
Positional Accuracy: 0.03 FT - Vert. Accuracy 0.02 FT
Type of GPS field procedure: GNSS North Carolina CORS RTK Network
Dates of survey - May - June 2020
Datum/Epoch - NAD83(2011)
Published Fixed Control Use: N/A
Geoid Model: GEOID12B
Combined Grid Factor(s): 1.00005478
Units: U.S. SURVEY FOOT
Equipment Used: Spectra Precision SP60 ADVANCED GNSS RECEIVER

07114120 FRANK KINDER
DATE FRANKLIN G. KINDER, PLS L-4462



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE
1	RECORD DRAWINGS	JB	KLT	7/13/20

PREPARED FOR:
NC
Mitigation Services
ENVIRONMENTAL QUALITY
NC DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF MITIGATION SERVICES
1652 MAIL SERVICE CENTER
RALEIGH, NC 27699-1652

PAUL WIESNER
PROJECT MANAGER

PREPARED IN THE OFFICE OF:
EPR ECOSYSTEM PLANNING & RESTORATION
1150 SE MAYNARD ROAD
SUITE 140
RALEIGH, NC 27511
LICENSE # P-1182




























SPRING 2020
COMPLETION DATE:

JAKE BYERS, PE
PROJECT ENGINEER

PROJECT ENGINEER
SEAL
039201
7/13/20
ENGINEER
JACOB M. BYERS
SIGNATURE: P.E.

SYMBOLY / NOTES

STREAM CONVENTIONAL SYMBOLS

- | | | |
|---|---|----------------------------|
|  ROCK J-HOOK (JH) | — SF — SAFETY FENCE | <u>MONITORING FEATURES</u> |
|  ROCK VANE (RV) | — TP — TAPE FENCE | |
|  OFFSET ROCK CROSS VANE (OV) | — — SILT FENCE | |
|  ROCK CROSS VANE (XV) | — X — FENCE | |
|  TEMPORARY SILT CHECK | — (CE) — CONSERVATION EASEMENT | |
|  ROOT WAD (RW) | -- 20 -- EXISTING MAJOR CONTOUR | |
|  GRADE CONTROL LOG J-HOOK VANE (LJH) | - - - - - EXISTING MINOR CONTOUR | |
|  LOG VANE (LV) | - - - - - LIMITS OF DISTURBANCE | |
|  LOG STEP (LS) | — — — BANKFULL BENCH (GRADE) | |
|  ROCK STEP (RS) | - · - · - · PROPERTY LINE | |
|  LOG CROSS VANE (XV) | — · — · — DOT RIGHT OF WAY | <u>ASBUILT FEATURES</u> |
|  CONSTRUCTED CASCADE (CC) | : : : : : ACCESS ROAD | |
|  CONSTRUCTED RIFFLE (CR) | 10+00
————— STREAM THALWEG | |
|  BOULDER CLUSTER | ————— STREAM TOP OF BANKS | |
|  LOG ROLLER (LR) | — () — FOOT BRIDGE | |
|  GRADE CONTROL WOODY RIFFLE (WR) | — () — TEMPORARY STREAM CROSSING | |
|  TOEWOOD WITH GEOLIFT (TW) | — () — PERMANENT FORD STREAM CROSSING (PFC) | |
|  SOD MATS (SM) | — () — TRANSPLANTED VEGETATION | |
|  DEBRIS JAM (DJ-T#) | — () — TREE REMOVAL | |
|  SINGLE WING DEFLECTOR (SW) (SW) | — () — TREE PROTECTION | |
|  DOUBLE WING DEFLECTOR (DW) |  GEOLIFT | |
| |  CHANNEL FILL / DITCH PLUG | |
| |  GRADE BANK 2:1 OR FLATTER | |
| |  EXISTING WETLANDS | |
| |  VEGETATED SWALE (VS) | |
| |  IMPERVIOUS DIKE | |

**NOTE: ALL ITEMS ABOVE MAY NOT BE USED ON THIS PROJECT

GENERAL NOTES

1. CONSTRUCTION WAS COMPLETED IN APRIL 2020.
2. TOPOGRAPHIC SURVEY WAS COMPLETED BY KINDER LAND SURVEYING IN OCTOBER 2018.
3. ASBUILT SURVEY WAS COMPLETED BY KINDER LAND SURVEYING IN MAY 2020.
4. ALL WOODY RIFFLES WERE REPLACED WITH CONSTRUCTED RIFFLES PER DIRECTION OF THE ENGINEER.
5. SURVEYED ASBUILT FEATURES ARE SHOWN IN DARK BLACK, DESIGN FEATURES ARE SHOWN IN GREY, AND ANY FIELD CHANGES THAT WERE MADE DURING CONSTRUCTION ARE SHOWN IN RED. THE CONTOURS SHOWN ARE ASBUILT CONTOURS.




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1	RECORD DRAWINGS	JB	KLT	7/13/20

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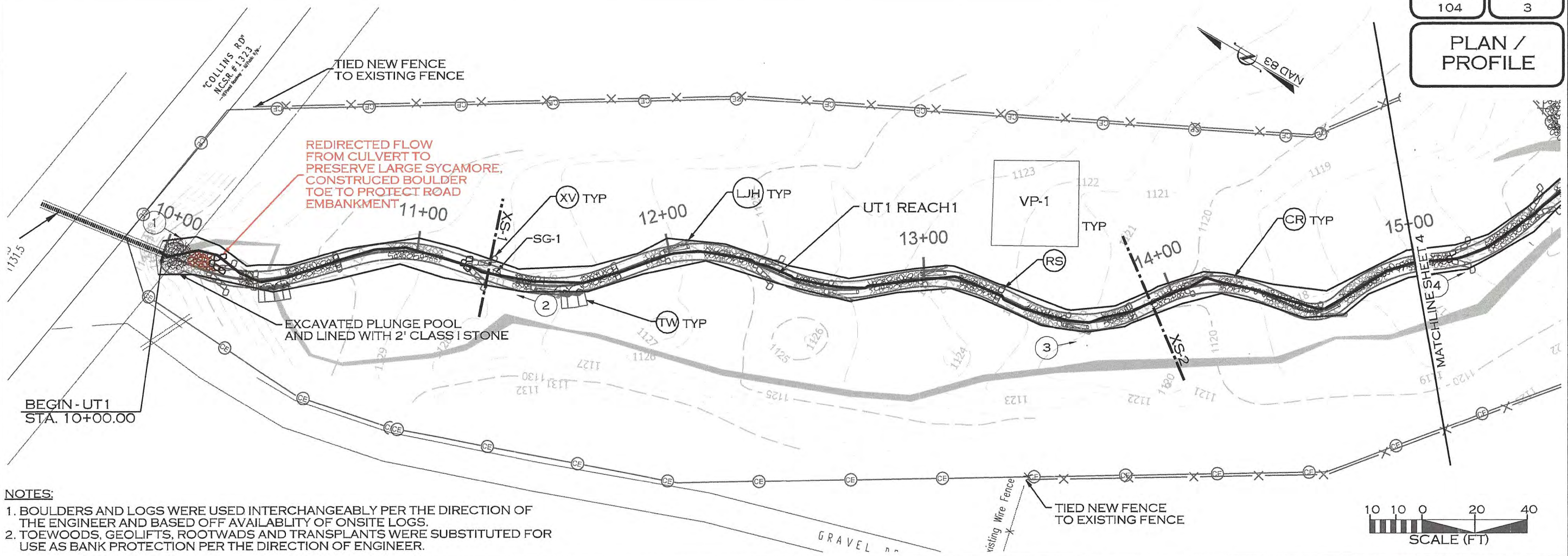
 Mitigation Services
 ENVIRONMENTAL QUALITY
 NC DEPARTMENT OF ENVIRONMENTAL QUALITY
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 1652 MAIL SERVICE CENTER
 RALEIGH, NC 27699-1652

GREENBRIER STREAM RESTORATION SITE
 YADKIN COUNTY, NC

PREPARED IN THE OFFICE OF:
 ECOSYSTEM
 PLANNING &
 RESTORATION
 1150 SE MAYNARD ROAD, SUITE 140
 RALEIGH, NC 27511
 LICENSE # P-1182

PROJECT ENGINEER

PLAN / PROFILE



NOTES:

1. BOULDERS AND LOGS WERE USED INTERCHANGEABLY PER THE DIRECTION OF THE ENGINEER AND BASED OFF AVAILABILITY OF ONSITE LOGS.
2. TOEWOODS, GEOLIFTS, ROOTWADS AND TRANSPLANTS WERE SUBSTITUTED FOR USE AS BANK PROTECTION PER THE DIRECTION OF ENGINEER.



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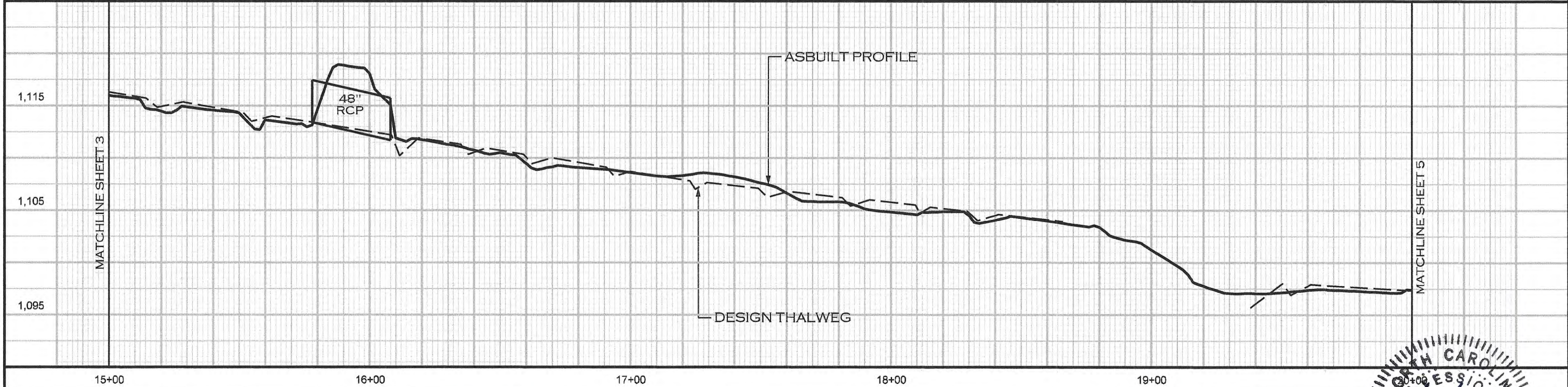
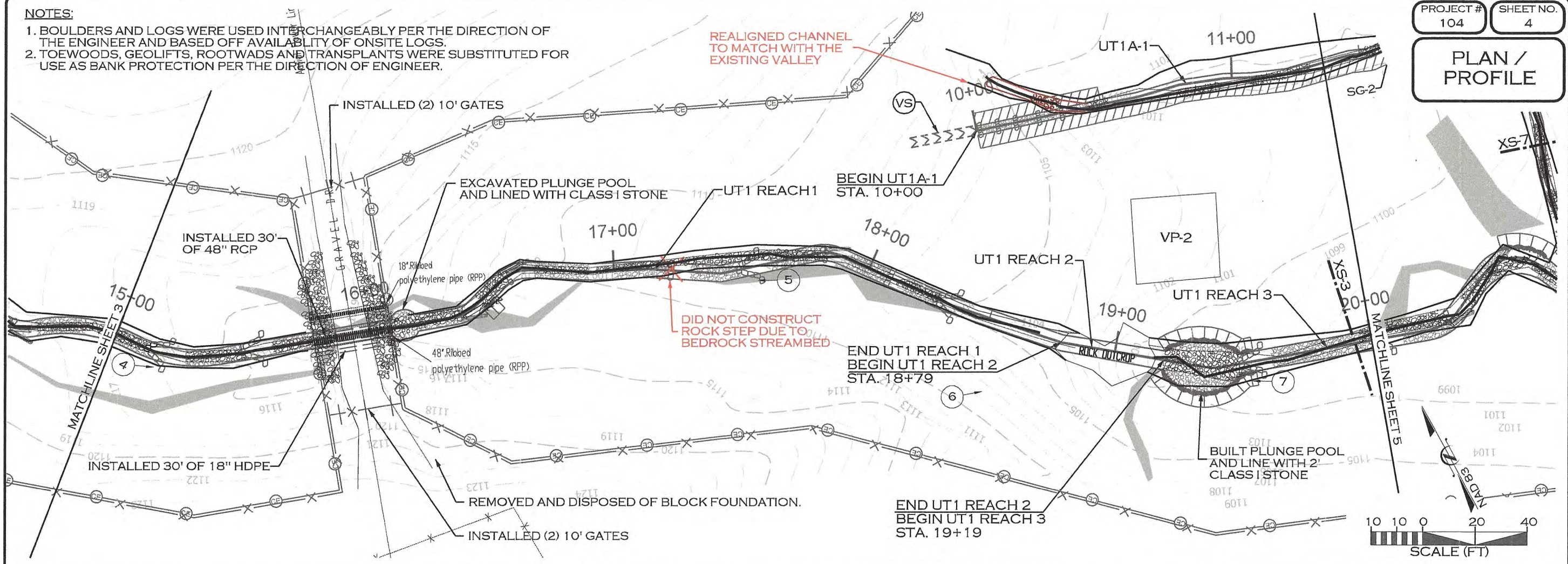
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PLAN / PROFILE

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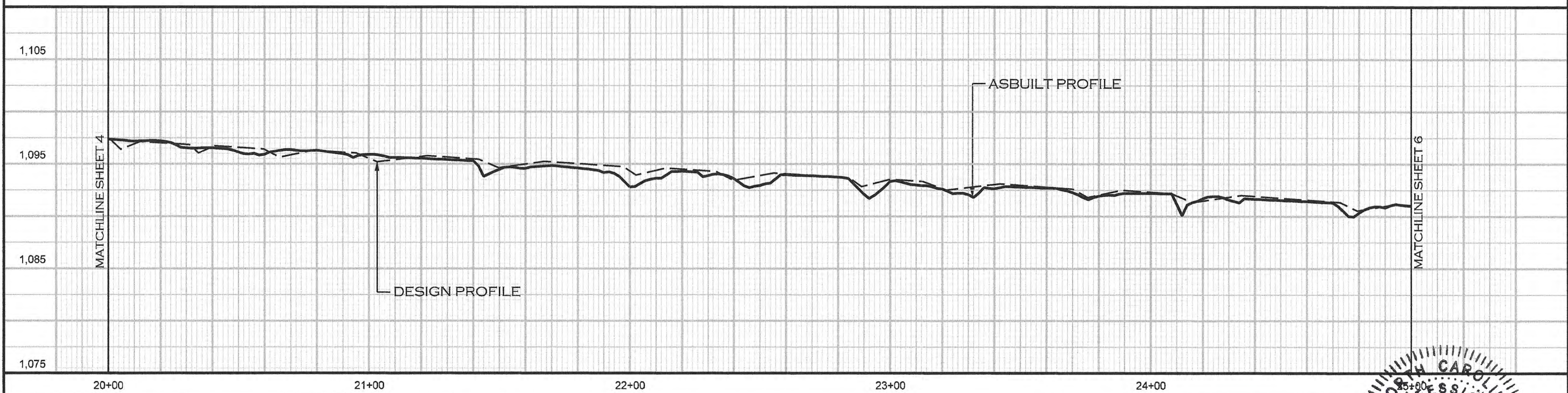
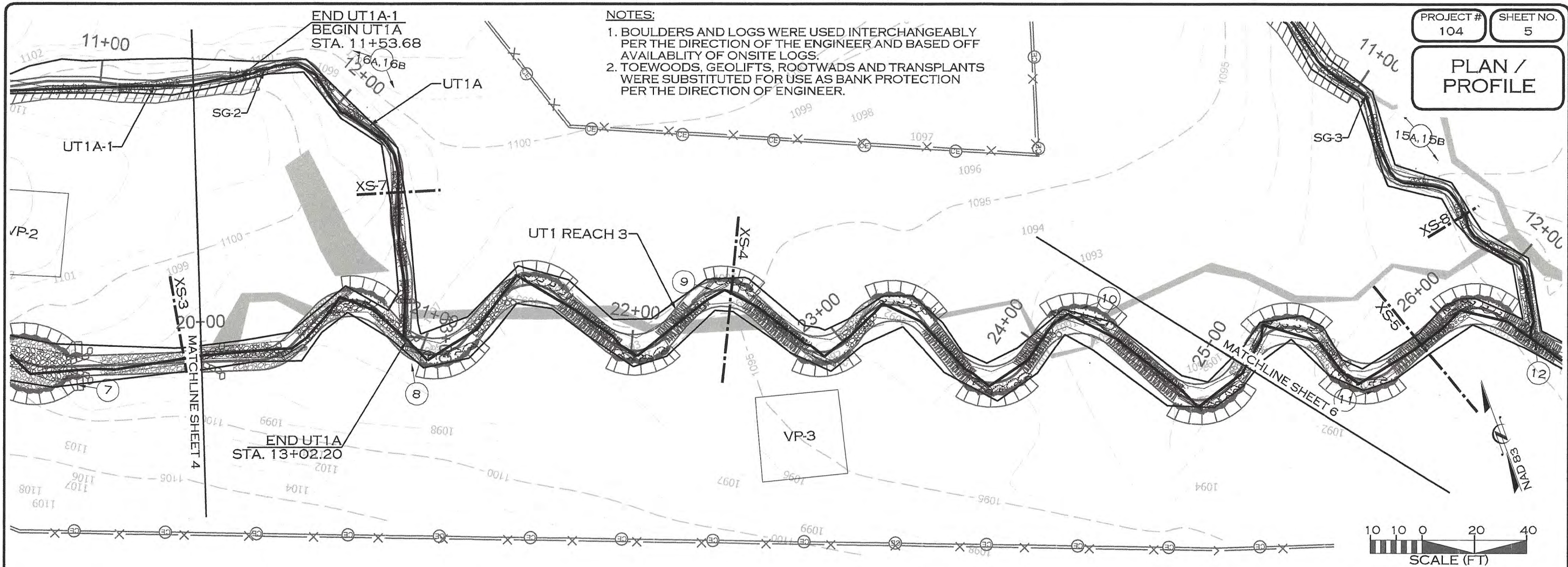
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1150 SE MAYNARD ROAD, SUITE 140
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JACOB M. BYERS
ENGINEER
039201
7/17/20

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YADKIN COUNTY, NC

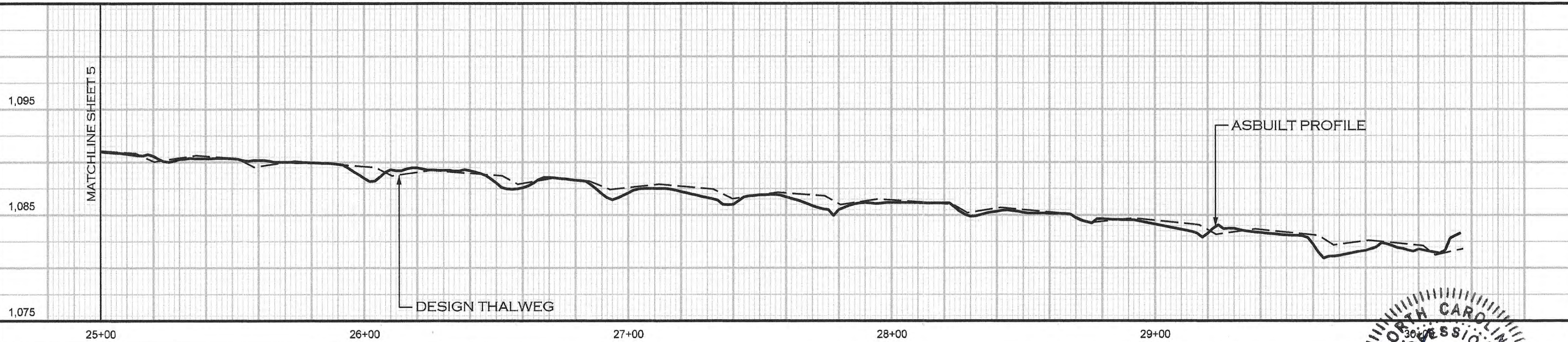
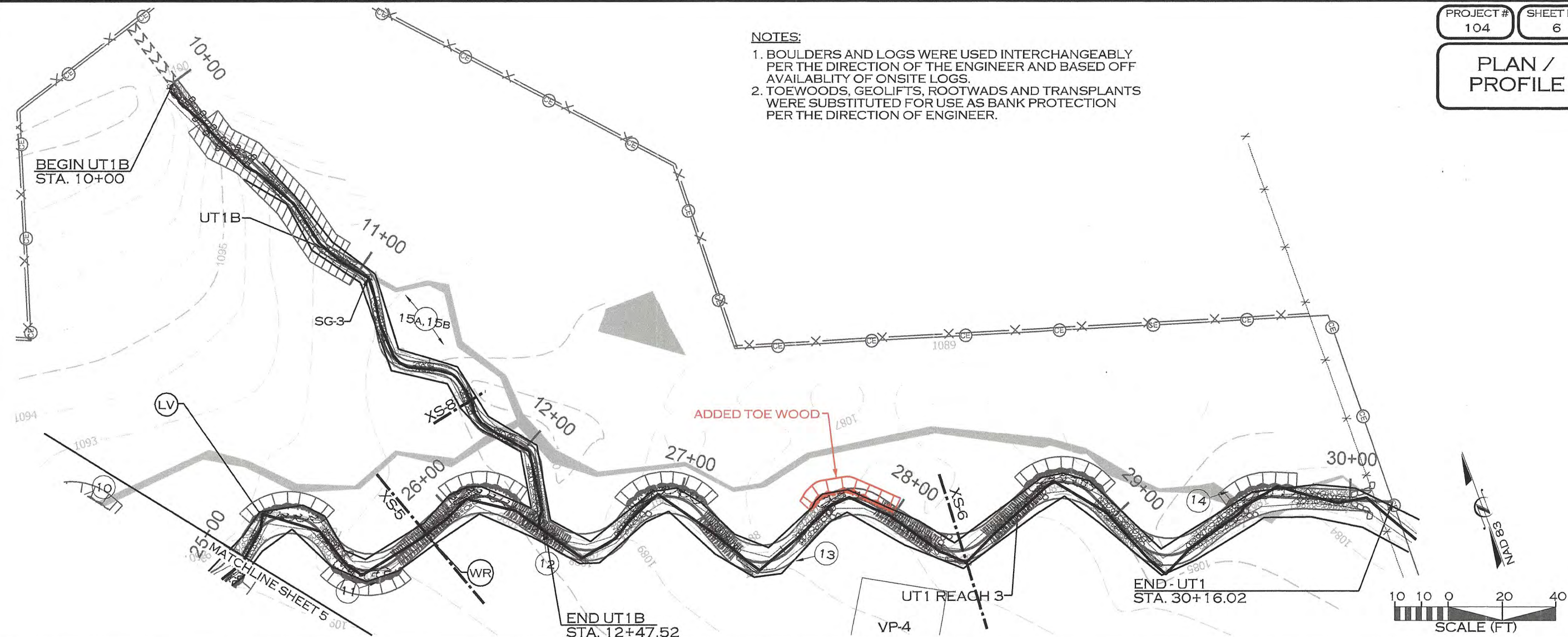
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PLAN / PROFILE

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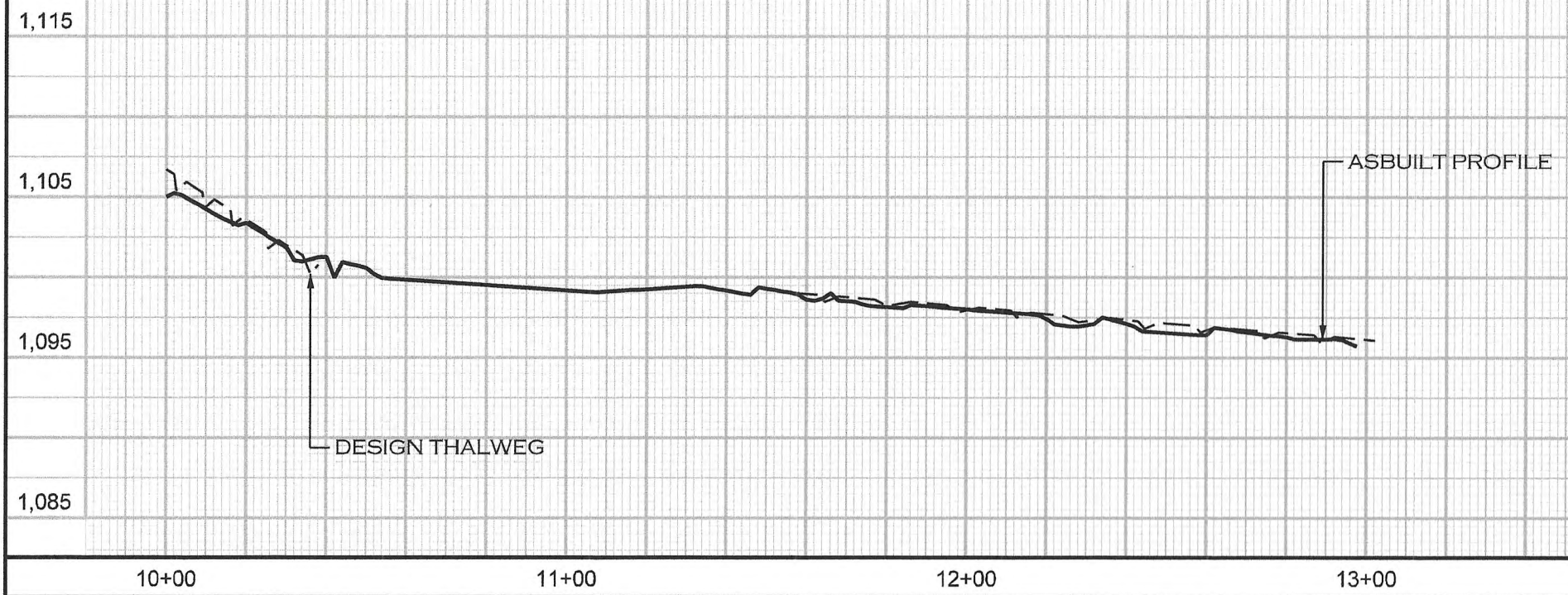
ECOSYSTEM PLANNING & RESTORATION
 1150 SE MAYNARD ROAD, SUITE 140
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 LICENSE # P-1182

JACOB M. BYERS
 PROFESSIONAL ENGINEER
 LICENSE # 039201
 STATE OF NORTH CAROLINA

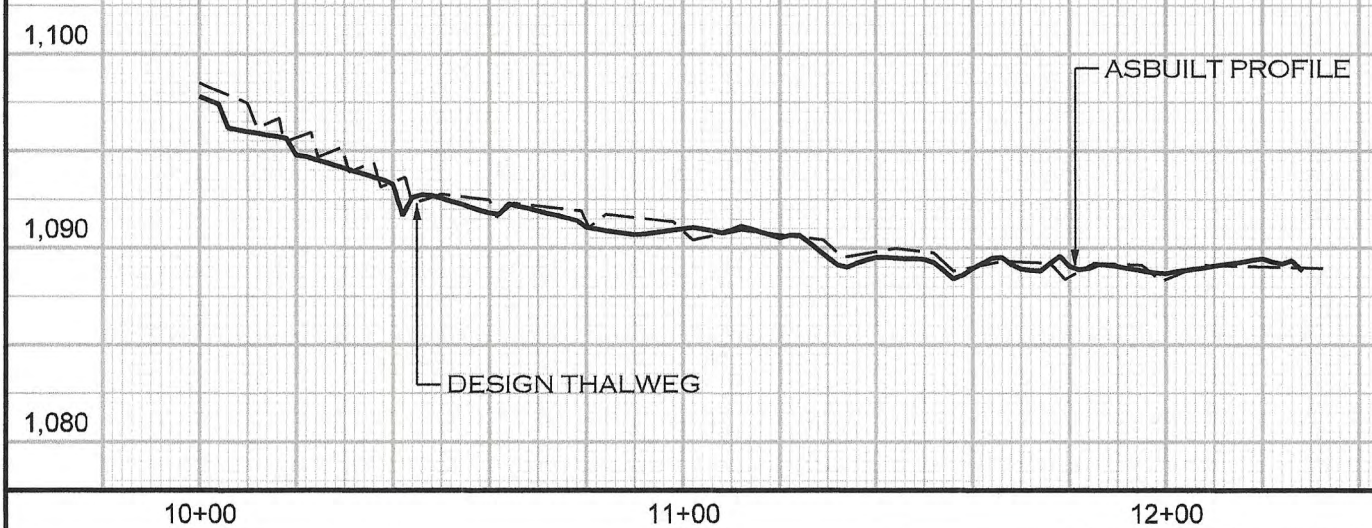
UT1A-1 AND UT1A

PROJECT # 104 SHEET NO. 7

PROFILE



UT1B



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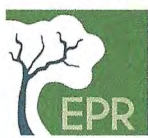
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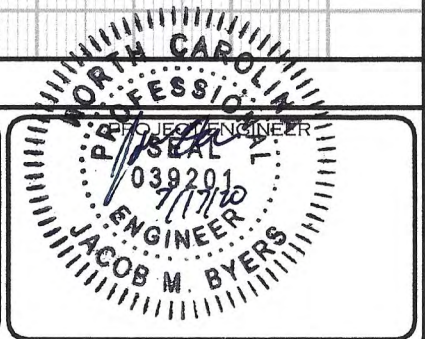
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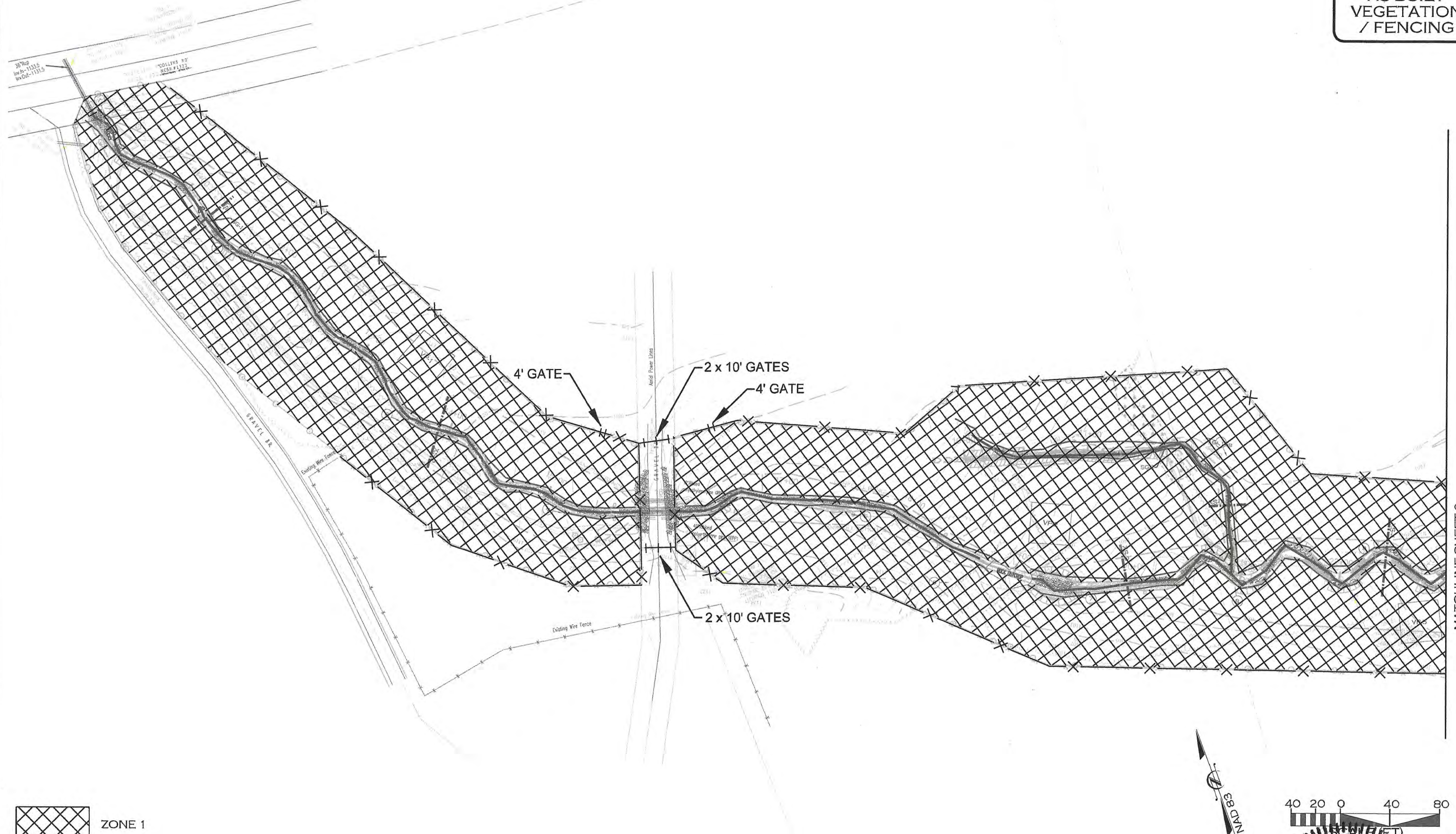
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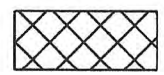


ALL PLANTING WAS COMPLETED ACCORDING TO THE THE DESIGN AND THERE WERE NO DEVIATIONS FROM THE PLANTING PLAN.

PROJECT # 104 SHEET NO. 8

AS-BUILT VEGETATION / FENCING



 ZONE 1

MATCHLINE SHEET 9


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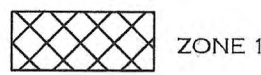
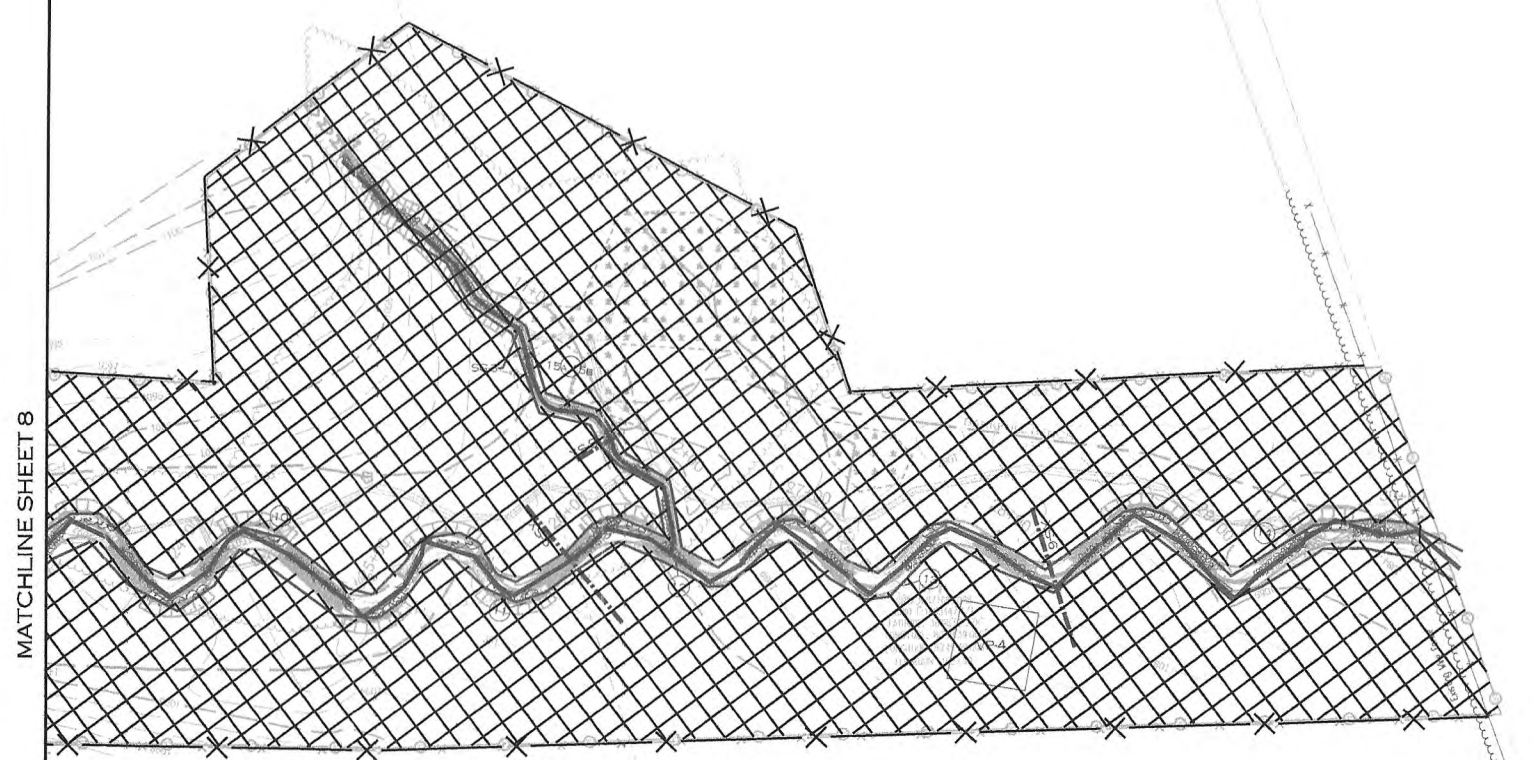
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 LICENSE # P-1182

PROFESSIONAL SEAL
 NORTH CAROLINA
 ENGINEER
 JACOB M. BYERS
 038201
 7/13/20

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PROJECT # 104 SHEET NO. 9

AS-BUILT VEGETATION / FENCING



7/27/2020 11:50 AM PROJECTS\RD\0104_NCDIEQ_GREENBRIER_FDY\CADD\PLANS\AS-BUILT\GREENBRIER_PSH_09.DGN

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