

09/08/19

NC DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF MITIGATION SERVICES AS-BUILT PLANS BULL CHUTE SITE

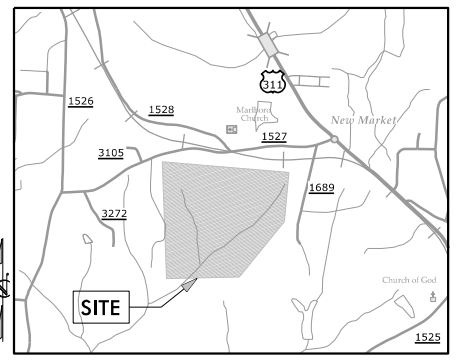
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C. | BULL CHUTE SITE | 1 | |

INDEX OF SHEETS

| SHEET NUMBER | SHEET |
|--------------------|------------------------|
| AB-01 | Title Sheet |
| AB-02 | Symbology |
| AB-03 | Easement |
| AB-04A THRU AB-04V | As-Built Structures |
| AB-04W | As-Built Planting List |

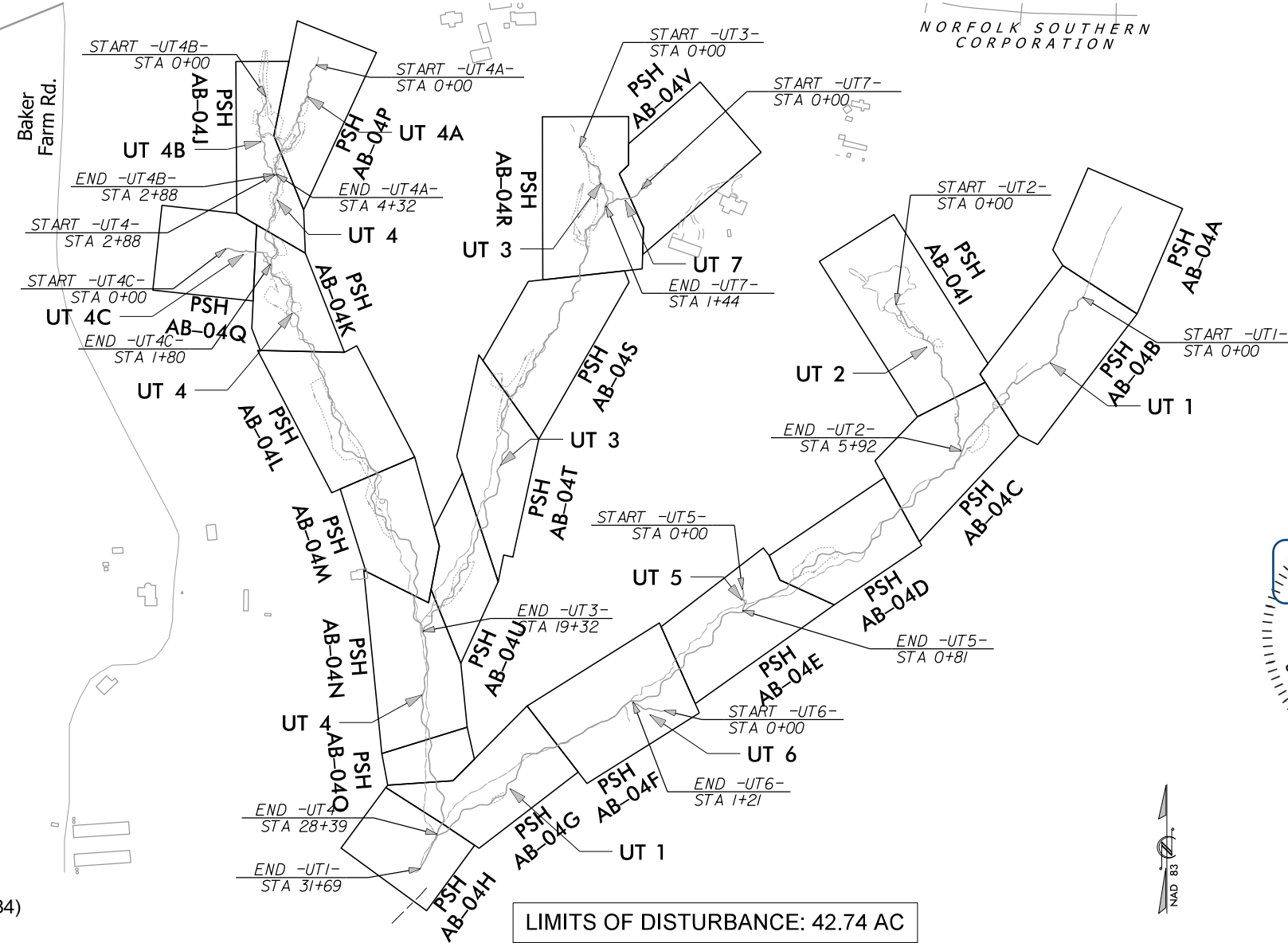
LOCATION: RANDOLPH COUNTY, NORTH CAROLINA

TYPE OF WORK: STREAM RESTORATION AND ENHANCEMENT (CLEARING, GRUBBING, GRADING, EROSION CONTROL AND PLANTING)



VICINITY MAP
Not to Scale

RECORD DRAWING



LIMITS OF DISTURBANCE: 42.74 AC

SURVEYORS CERTIFICATION(S)

Surveyor's disclaimer: No attempt was made to locate any cemeteries, wetlands, hazardous material sites, underground utilities or any other features above, or below ground other than those shown. However, no visible evidence of cemeteries or utilities, aboveground or otherwise, was observed by the undersigned (other than those shown).

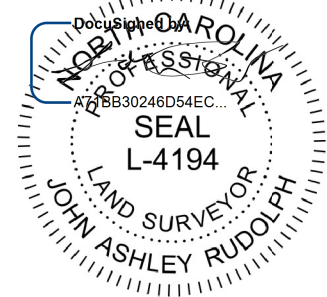
I certify that the survey is of an existing parcel or parcels of land or one or more existing easements and does not create a new street or change an existing street.

I JOHN A. RUDOLPH, certify that this plat was prepared under my supervision from an actual field survey made under my supervision, of as-built conditions.

That the boundaries not surveyed are clearly indicated as such and were plotted from information as referenced herein; That the ratio of precision as calculated was 1:7,500+ and that the global navigational satellite system (GNSS) was used to perform this survey and the following information was used:

Class of Survey: CLASS B (HORIZONTAL) CLASS B (VERTICAL)
 Positional Accuracy: 0.12 feet (HORIZONTAL)
 Type of GPS field procedure: RTK
 Dates of survey: May and June 2022
 Datum/Epoch: NAD 1983(2011)
 Published/Fixed Control Use: OPUS
 Geoid Model: 2012B CONUS
 Combined Grid Factor: 0.99995565 GROUND TO GRID
 Units: US SURVEY FEET

That this plat meets the requirements of the standards of practice for land surveying in North Carolina. Witness my hand and seal this 12th day of July, 2022.



7/26/2022

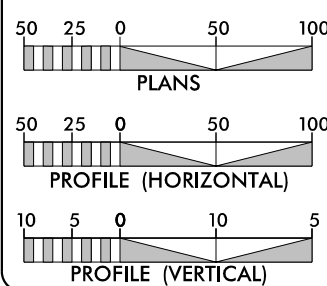
Professional Land Surveyor License Number

CONTRACT: BULL CHUTE SITE

BULL CHUTE SITE

SITE #: 100137
 YADKIN 03040105
 RANDOLPH COUNTY
 CONTRACT#: 7878-01
 LATITUDE: 35.8325
 LONGITUDE: -79.8879 (WGS84)

GRAPHIC SCALES



| PROPOSED LENGTH OF -UT 1 = 3169 | PROPOSED LENGTH OF -UT 4B = 288 | | |
|---|---------------------------------|----------------------------|-------------------------------|
| PROPOSED LENGTH OF -UT 2 = 592 | PROPOSED LENGTH OF -UT 4C = 180 | | |
| PROPOSED LENGTH OF -UT 3 = 1932 | PROPOSED LENGTH OF -UT 5 = 81 | | |
| PROPOSED LENGTH OF -UT 4 = 2555 | PROPOSED LENGTH OF -UT 6 = 121 | | |
| PROPOSED LENGTH OF -UT 4A = 432 | PROPOSED LENGTH OF -UT 7 = 144 | | |
| TOTAL STREAM LENGTHS (LF) = 9494 | | | |
| RESTORATION LEVEL | STREAM (linear footage) | RIPARIAN WETLAND (acreage) | NONRIPARIAN WETLAND (acreage) |
| RESTORATION | 6937 | 3.130 (Reestablishment) | 0.000 |
| ENHANCEMENT I | 411 | 0.114 (Rehabilitation) | 0.000 |
| ENHANCEMENT II | 333 | 1.4662 (Enhancement) | 0.000 |
| ENHANCEMENT III | 50 | 0.000 | 0.000 |
| TOTALS | 7731 | 4.710 | 0.000 |



Axiom Environmental
 218 Snow Ave
 Raleigh, NC 27603

GRANT LEWIS
 PROJECT DESIGNER

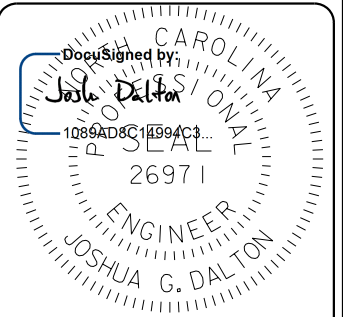
CLEARWATER MITIGATION SOLUTIONS

Clearwater Mitigation Solutions
 604 Macon Place
 Raleigh, NC 27609

KEVIN YATES
 SITE CONSTRUCTION MANAGER

Prepared in the Office of:
SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 859-2243
 ENG FIRM LICENSE NO. C-890

JOSHUA G. DALTON, P.E.
 PROJECT ENGINEER



7/26/2022

DATE:

7/26/2022 BullChute-psh-AB-01.dgn jnarvey

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

RECORD DRAWING

BOUNDARIES AND PROPERTY:

| | |
|-------------------------------------|---------|
| State Line | ----- |
| County Line | ----- |
| Township Line | ----- |
| City Line | ----- |
| Reservation Line | ----- |
| Property Line | ----- |
| Existing Iron Pin | EP |
| Computed Property Corner | ----- |
| Property Monument | EM |
| Parcel/Sequence Number | (23) |
| Existing Fence Line | -x-x-x- |
| Proposed Fence Gate | □ |
| Proposed Barbed Wire Fence | ◇ |
| Existing Wetland Boundary | -WLB- |
| Proposed Wetland Boundary | -WLB- |
| Existing Endangered Animal Boundary | -EAB- |
| Existing Endangered Plant Boundary | -EPB- |
| Existing Historic Property Boundary | -HPB- |

BUILDINGS AND OTHER CULTURE:

| | |
|-------------------------------|---|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign | ○ |
| Well | W |
| Small Mine | ⊗ |
| Foundation | □ |
| Area Outline | □ |
| Cemetery | ⊕ |
| Building | □ |
| School | □ |
| Church | ⊕ |
| Dam | □ |

HYDROLOGY:

| | |
|------------------------------------|--------|
| Stream or Body of Water | ----- |
| Hydro, Pool or Reservoir | □ |
| Jurisdictional Stream | -JS- |
| Buffer Zone 1 | -BZ 1- |
| Buffer Zone 2 | -BZ 2- |
| Flow Arrow | ← |
| Disappearing Stream | ----- |
| Spring | ○ |
| Wetland | W |
| Proposed Lateral, Tail, Head Ditch | ----- |

RIGHT OF WAY & PROJECT CONTROL:

| | |
|--|---|
| Secondary Horiz and Vert Control Point | ◆ |
| Primary Horiz Control Point | ○ |
| Primary Horiz and Vert Control Point | ● |

| | |
|--|-------|
| Exist Permanent Easement Pin and Cap | ◇ |
| New Permanent Easement Pin and Cap | ◆ |
| Vertical Benchmark | ⊕ |
| Existing Right of Way Marker | △ |
| Existing Right of Way Line | ----- |
| New Right of Way Line | ----- |
| New Right of Way Line with Pin and Cap | ◇ |
| New Right of Way Line with Concrete or Granite RW Marker | △ |
| New Control of Access Line with Concrete CA Marker | △ |
| Existing Control of Access | △ |
| New Control of Access | △ |
| Existing Easement Line | ----- |
| New Conservation Easement | CE |
| New Temporary Drainage Easement | TDE |
| New Permanent Drainage Easement | PDE |
| New Permanent Drainage / Utility Easement | DUE |
| New Permanent Utility Easement | PUE |
| New Temporary Utility Easement | TUE |
| New Aerial Utility Easement | AUE |

ROADS AND RELATED FEATURES:

| | |
|----------------------------|-------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | -C- |
| Proposed Slope Stakes Fill | -F- |
| Proposed Curb Ramp | CR |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | ⊗ |

VEGETATION:

| | |
|--------------|----------|
| Single Tree | ⊕ |
| Single Shrub | ⊕ |
| Hedge | ----- |
| Woods Line | ----- |
| Orchard | ⊕ |
| Vineyard | Vineyard |

EXISTING STRUCTURES:

| | |
|--|---------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | CONC |
| Bridge Wing Wall, Head Wall and End Wall | CONC WW |
| MINOR: | |
| Head and End Wall | CONC HW |

| | |
|-------------------------------------|-------|
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | CB |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ⊕ |
| Storm Sewer | S |

UTILITIES:

| | |
|--------------------------------|-------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ⊕ |
| Power Line Tower | ⊗ |
| Power Transformer | ⊗ |
| U/G Power Cable Hand Hole | ----- |
| H-Frame Pole | ● |
| U/G Power Line LOS B (S.U.E.*) | ----- |
| U/G Power Line LOS C (S.U.E.*) | ----- |
| U/G Power Line LOS D (S.U.E.*) | ----- |

TELEPHONE:

| | |
|-------------------------|---|
| Existing Telephone Pole | ● |
|-------------------------|---|

WATER:

| | |
|--------------------------------|-----------|
| Water Manhole | ⊕ |
| Water Meter | ○ |
| Water Valve | ⊗ |
| Water Hydrant | ⊕ |
| U/G Water Line LOS B (S.U.E.*) | ----- |
| U/G Water Line LOS C (S.U.E.*) | ----- |
| U/G Water Line LOS D (S.U.E.*) | ----- |
| Above Ground Water Line | A/G Water |

GAS:

| | |
|------------------------------|---------|
| Gas Valve | ◇ |
| Gas Meter | ⊕ |
| U/G Gas Line LOS B (S.U.E.*) | ----- |
| U/G Gas Line LOS C (S.U.E.*) | ----- |
| U/G Gas Line LOS D (S.U.E.*) | ----- |
| Above Ground Gas Line | A/G Gas |

SANITARY SEWER:

| | |
|-------------------------------------|--------------------|
| Sanitary Sewer Manhole | ⊕ |
| Sanitary Sewer Cleanout | ⊕ |
| U/G Sanitary Sewer Line | SS |
| Above Ground Sanitary Sewer | A/G Sanitary Sewer |
| SS Forced Main Line LOS B (S.U.E.*) | ----- |
| SS Forced Main Line LOS C (S.U.E.*) | ----- |

| | |
|-------------------------------------|-------|
| SS Forced Main Line LOS D (S.U.E.*) | ----- |
|-------------------------------------|-------|

MISCELLANEOUS:

| | |
|--|--------|
| Utility Pole | ● |
| Utility Pole with Base | □ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | ⊕ |
| Utility Unknown U/G Line LOS B (S.U.E.*) | ----- |
| U/G Tank; Water, Gas, Oil | UST |
| Underground Storage Tank, Approx. Loc. | UST |
| A/G Tank; Water, Gas, Oil | ----- |
| Geoenvironmental Boring | ⊕ |
| U/G Test Hole LOS A (S.U.E.*) | ⊕ |
| Abandoned According to Utility Records | AATUR |
| End of Information | E.O.I. |

| | |
|----------------|-------|
| Riffle Rip Rap | ----- |
|----------------|-------|

| | |
|----------|-------|
| Log Vane | ----- |
|----------|-------|

| | |
|----------------|-------|
| Log Cross Vane | ----- |
|----------------|-------|

| | |
|---------------------|-------|
| Step Pool Structure | ----- |
|---------------------|-------|

| | |
|-------------|-------|
| Stream Plug | ----- |
|-------------|-------|

| | |
|------------------------|-------|
| Floodplain Interceptor | ----- |
|------------------------|-------|

| | |
|----------------|-------|
| Proposed Fence | ----- |
|----------------|-------|

| | |
|-----------------------|-----|
| Limits of Disturbance | LOD |
|-----------------------|-----|

AS-BUILT:

| | |
|-------------------|-------|
| Stream Centerline | ----- |
|-------------------|-------|

| | |
|--------------------|-------|
| Stream Top of Bank | ----- |
|--------------------|-------|

| | |
|--------------|---|
| Stream Gauge | ○ |
|--------------|---|

| | |
|-------------------|---|
| Groundwater Gauge | # |
|-------------------|---|

| | |
|---------------------------------|---|
| Benthic & Water Quality Station | 1 |
|---------------------------------|---|

| | |
|---------------------------|---|
| Origin Point on CVS Plots | △ |
|---------------------------|---|

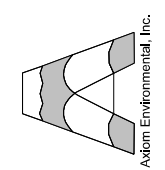
| | |
|-----------|---|
| CVS Plots | # |
|-----------|---|

| | |
|---------------|--------|
| Cross Section | XS-10R |
|---------------|--------|

| | |
|---------------------------|-------|
| Adjusted Stream Structure | ----- |
|---------------------------|-------|

| | |
|-----------------|-------|
| Not Constructed | ----- |
|-----------------|-------|

SUNGATE DESIGN GROUP, P.A.
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 BAYLOR, NC 27606
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 ENG FIRM LICENSE NO. C-980



ASKAM Environmental, Inc.

BULL CHUTE
 RANDOLPH COUNTY, NC
 SYMBOLOGY

PROJECT # :
 DRAWING NAME:
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

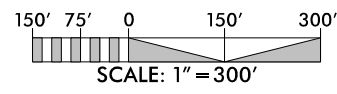
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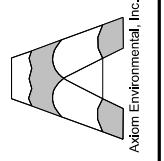
CONSERVATION EASEMENT ——— CE ———

SURVEY INFORMATION
EASEMENT PROVIDED BY:
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5688 U.S. HIGHWAY 70 EAST
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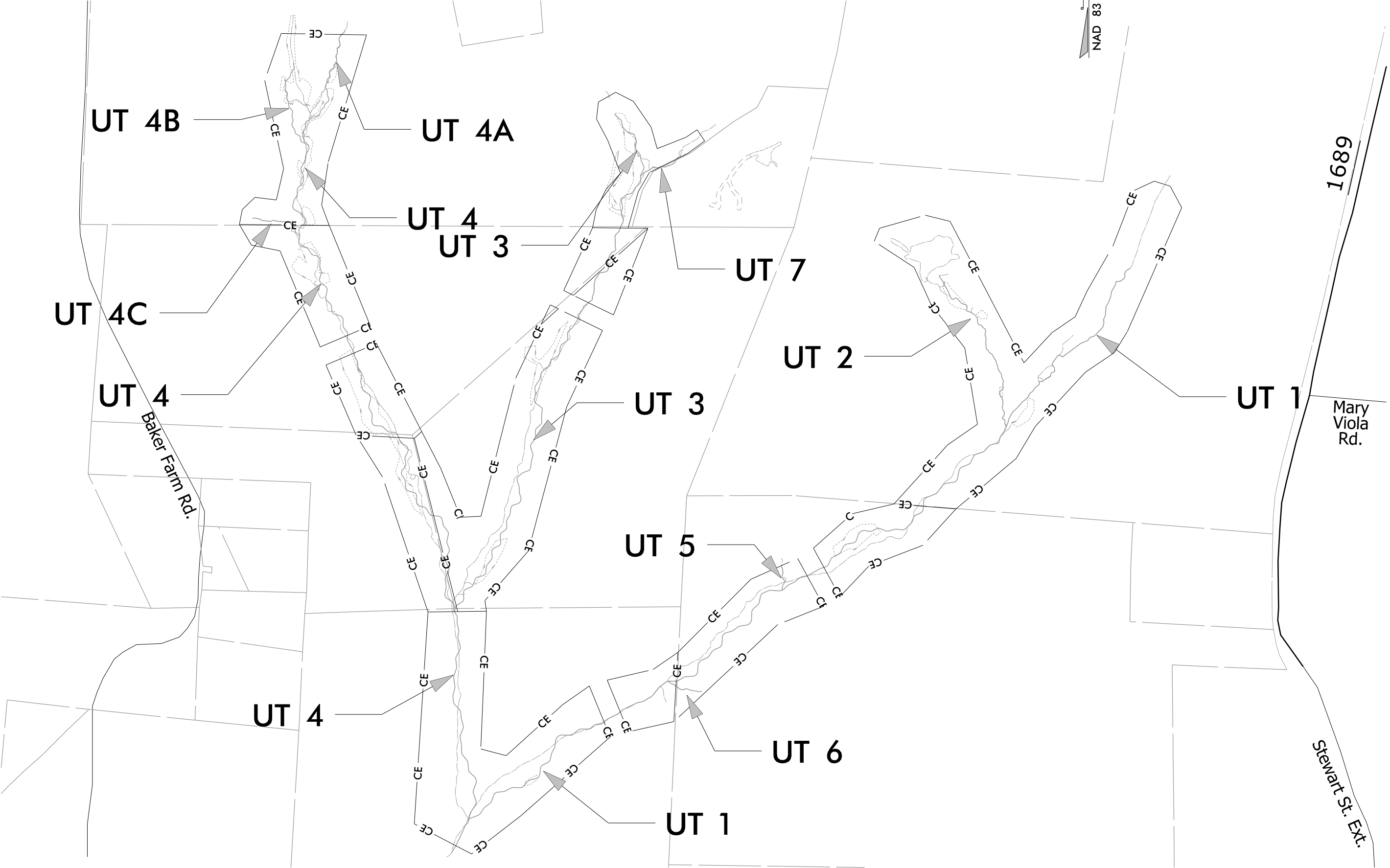
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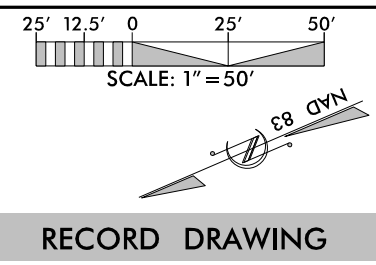
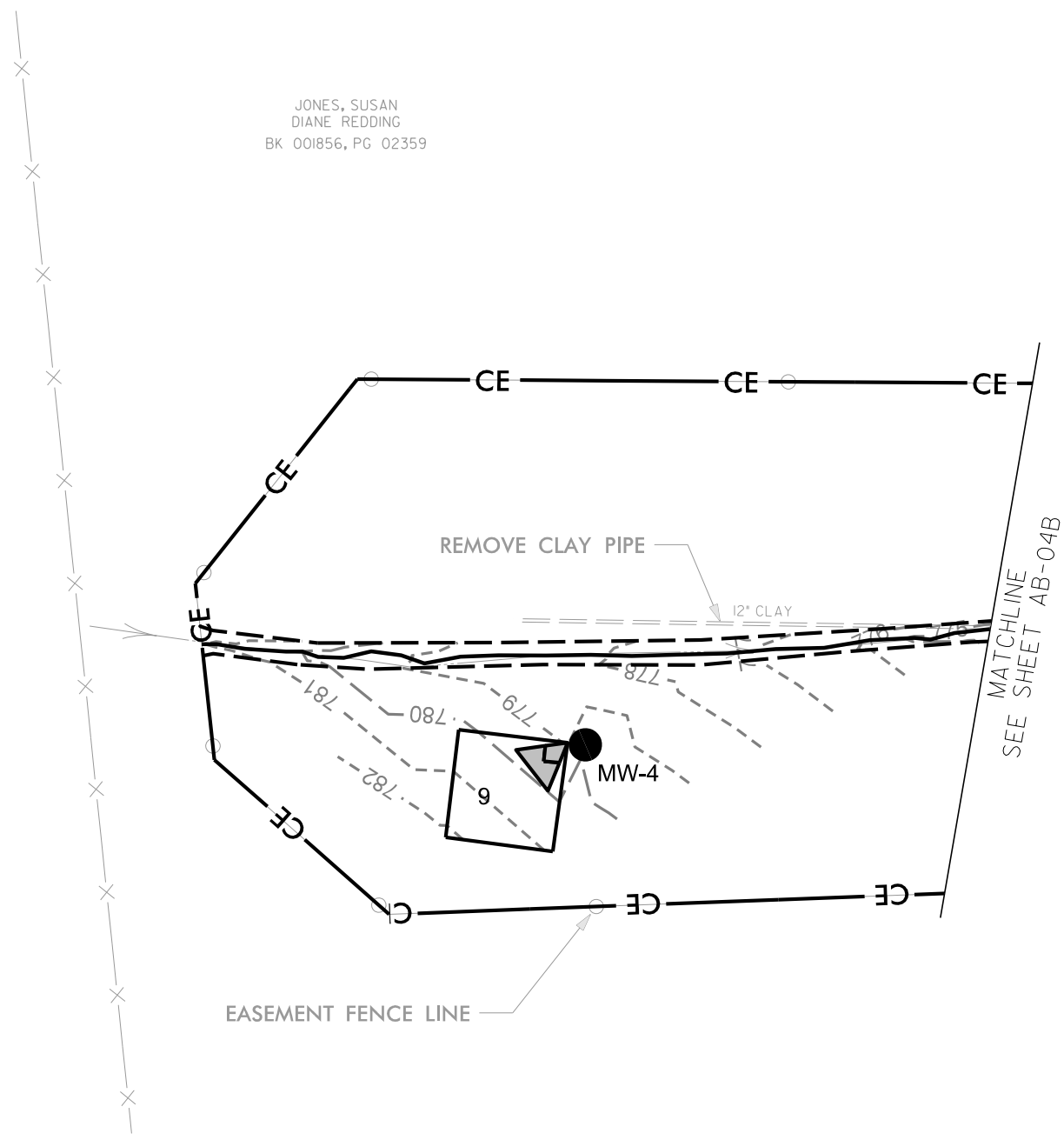
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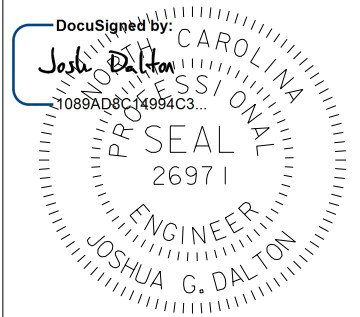


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10:05 AM

JONES, SUSAN
DIANE REDDING
BK 001856, PG 02359



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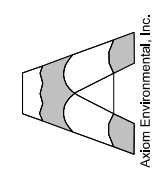
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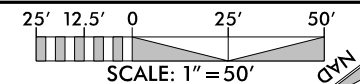


BULL CHUTE
 RANDOLPH COUNTY, NC

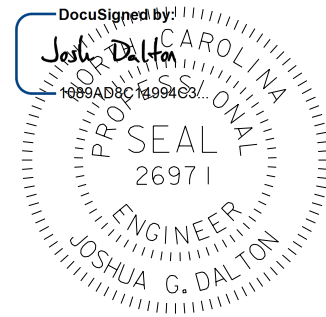
AS-BUILT STRUCTURES

| | |
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| DATE: | 2022 |
| DRAWN BY: | JRH |
| REVIEWED BY: | JGD |
| REVISIONS: | |
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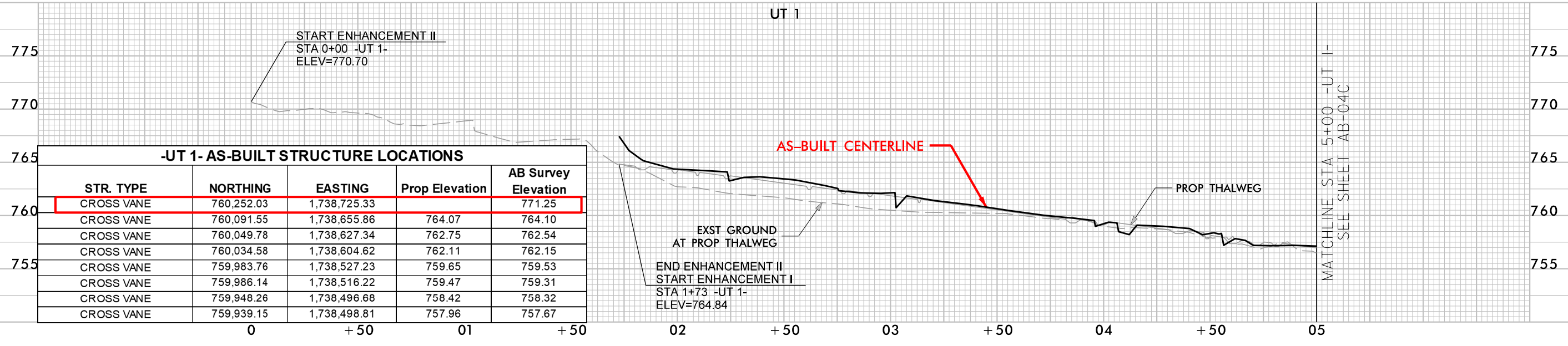
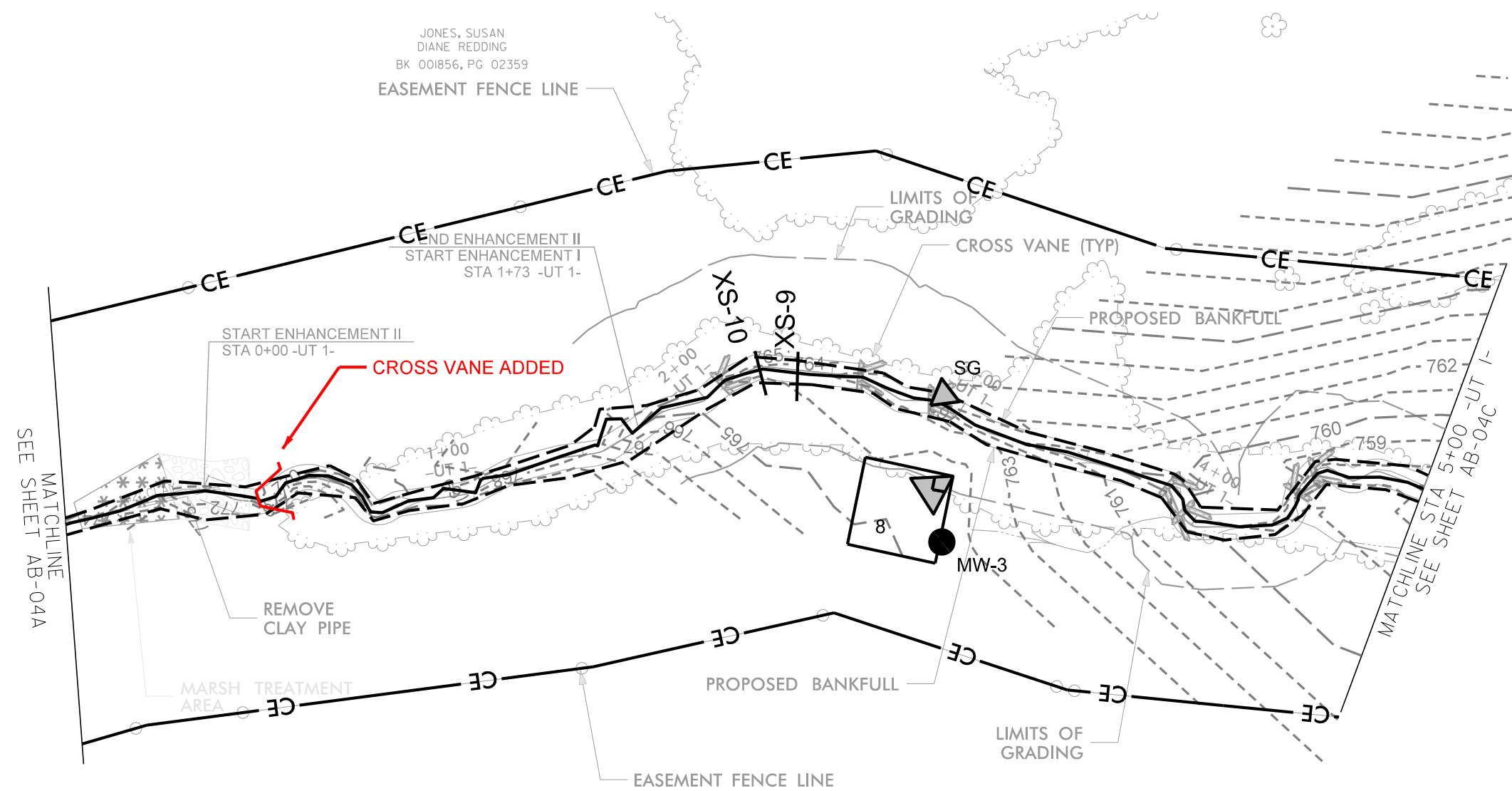
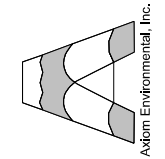
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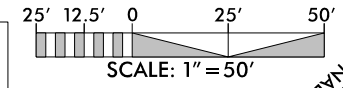
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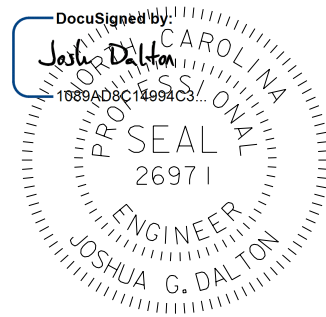
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DATE: 2022
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

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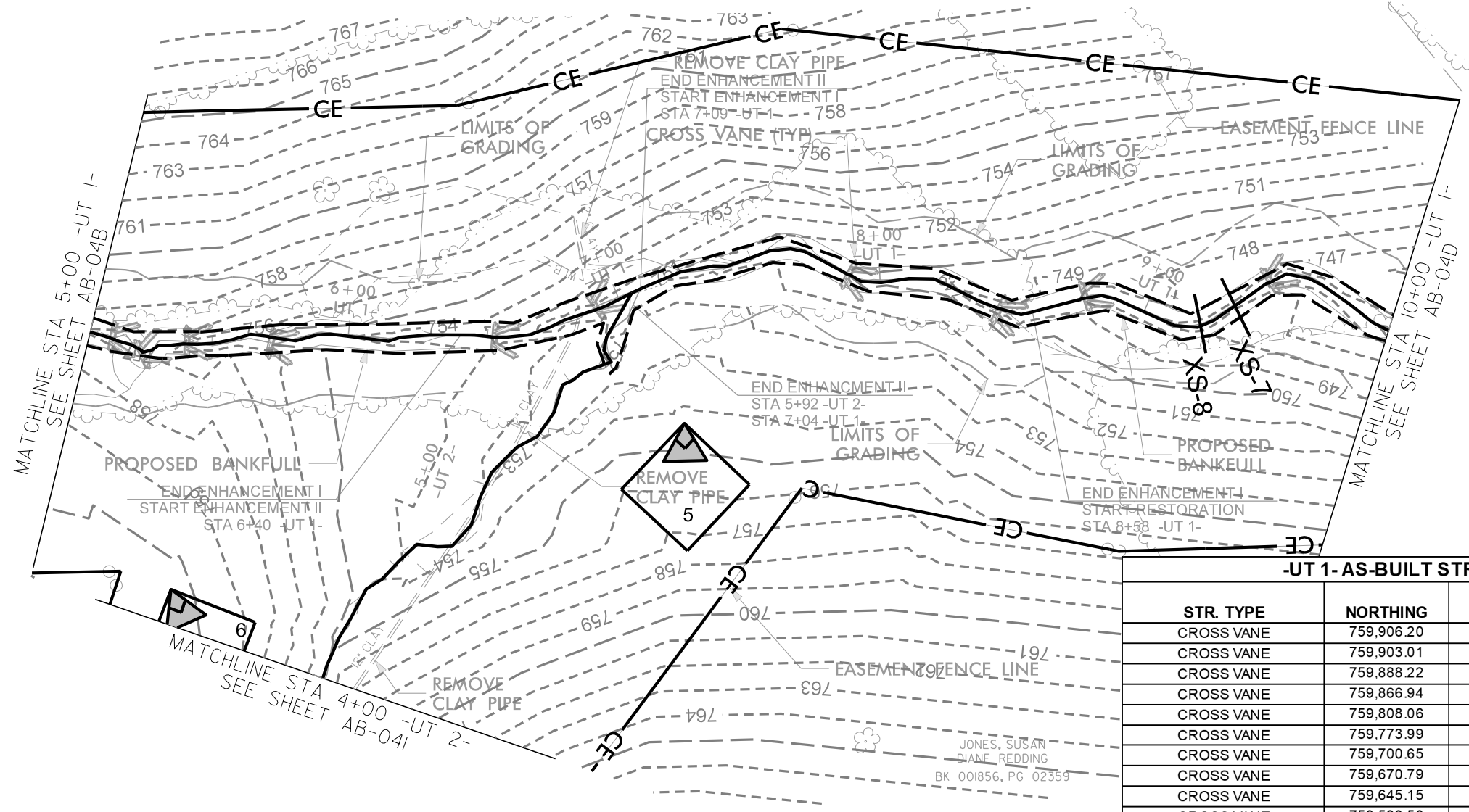
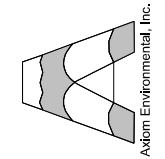
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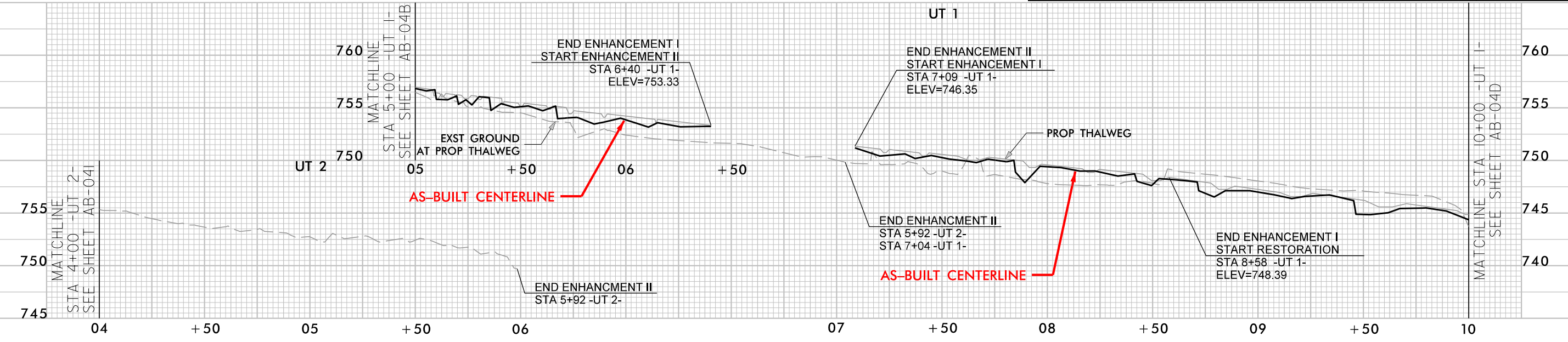
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-UT 1- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 759,906.20 | 1,738,462.97 | 756.73 | 756.73 |
| CROSS VANE | 759,903.01 | 1,738,451.12 | 756.20 | 756.13 |
| CROSS VANE | 759,888.22 | 1,738,443.24 | 755.90 | 755.96 |
| CROSS VANE | 759,866.94 | 1,738,421.87 | 755.03 | 755.17 |
| CROSS VANE | 759,808.06 | 1,738,367.26 | 753.07 | 753.34 |
| CROSS VANE | 759,773.99 | 1,738,350.14 | 752.00 | 751.27 |
| CROSS VANE | 759,700.65 | 1,738,295.33 | 749.94 | 750.02 |
| CROSS VANE | 759,670.79 | 1,738,248.75 | 748.69 | 748.73 |
| CROSS VANE | 759,645.15 | 1,738,230.62 | 747.85 | 747.95 |
| CROSS VANE | 759,593.50 | 1,738,188.44 | 746.19 | 746.18 |



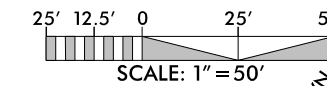
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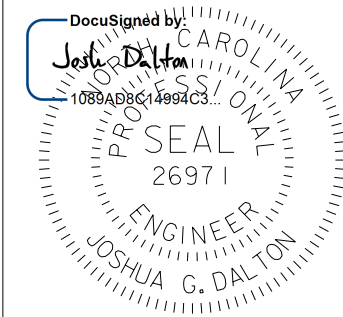
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RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

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DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04C



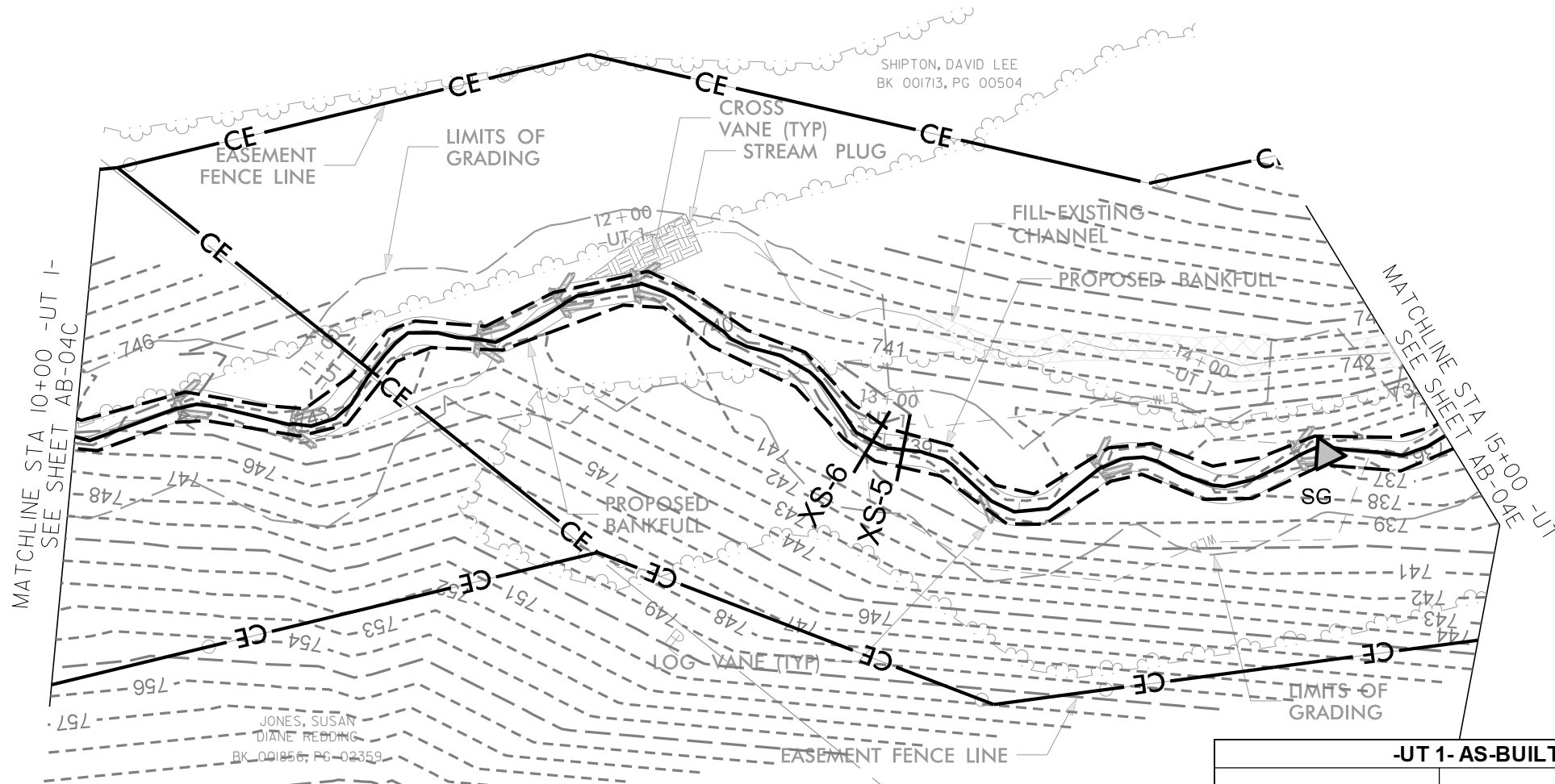
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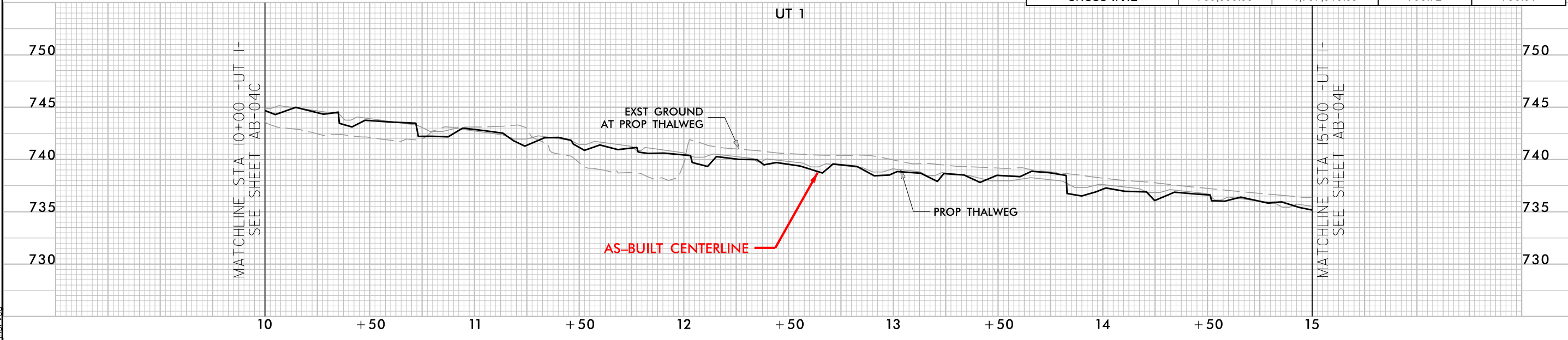
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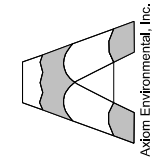
| -UT 1- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 759,548.37 | 1,738,123.70 | 744.37 | 744.53 |
| CROSS VANE | 759,532.46 | 1,738,090.18 | 743.28 | 743.47 |
| CROSS VANE | 759,476.12 | 1,738,055.80 | 741.84 | 741.84 |
| CROSS VANE | 759,451.74 | 1,738,040.70 | 741.25 | 741.16 |
| CROSS VANE | 759,433.59 | 1,738,023.53 | 740.63 | 740.38 |
| LOG VANE | 759,426.58 | 1,737,893.32 | 738.45 | 738.37 |
| CROSS VANE | 759,398.10 | 1,737,866.61 | 737.94 | 738.47 |
| CROSS VANE | 759,358.85 | 1,737,815.88 | 736.72 | 736.61 |



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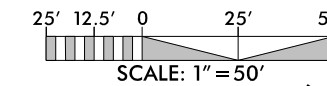
SUNGATE DESIGN GROUP, P.A.
 845 GAYNES BRANFORD ROAD
 SUITE 200
 WYOMING, NORTH CAROLINA 27686
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980



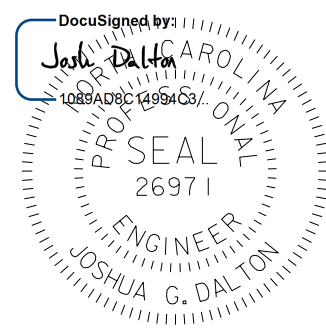
BULL CHUTE
 RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
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SHEET NO.
AB-04D



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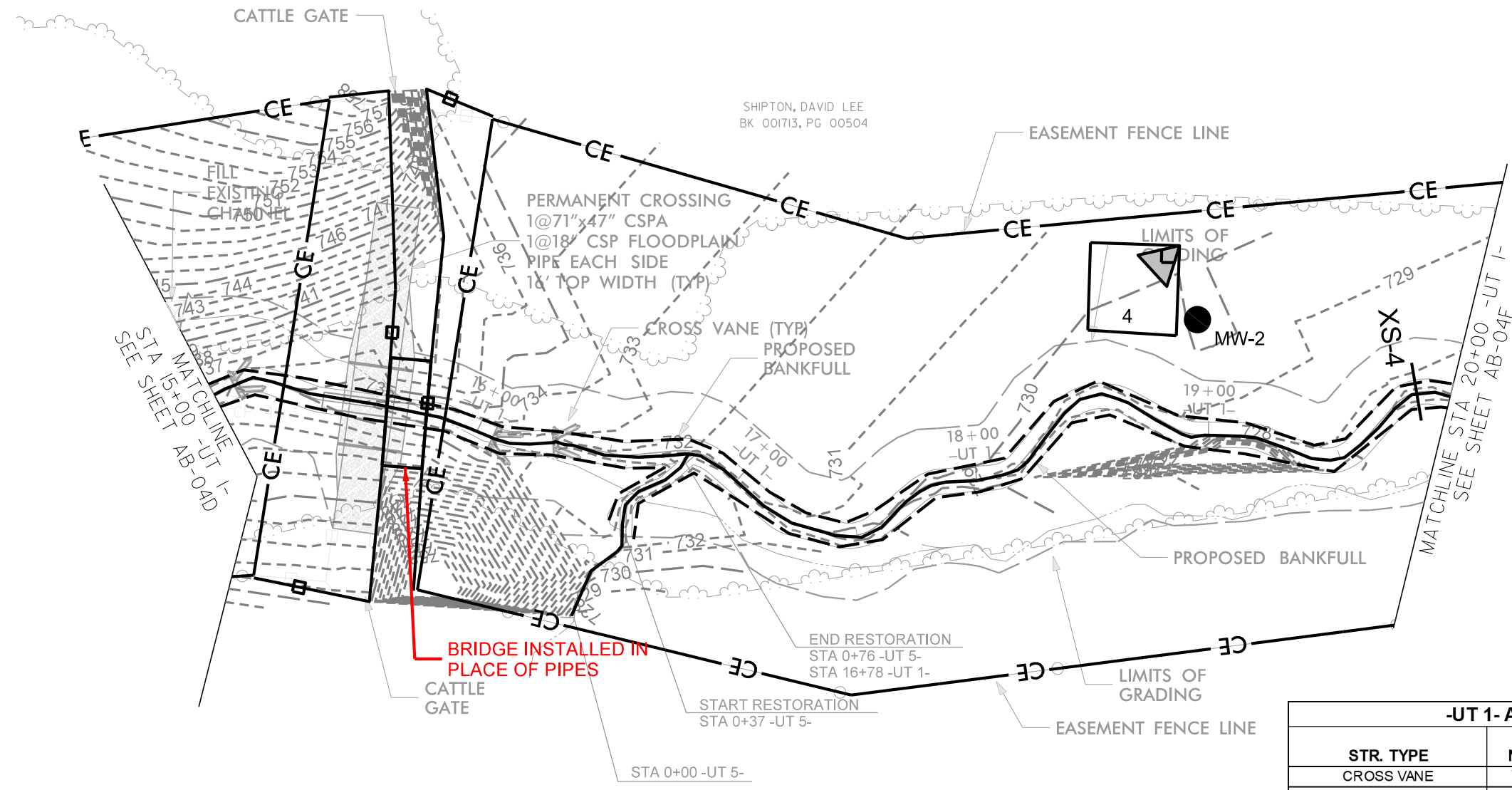
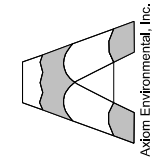


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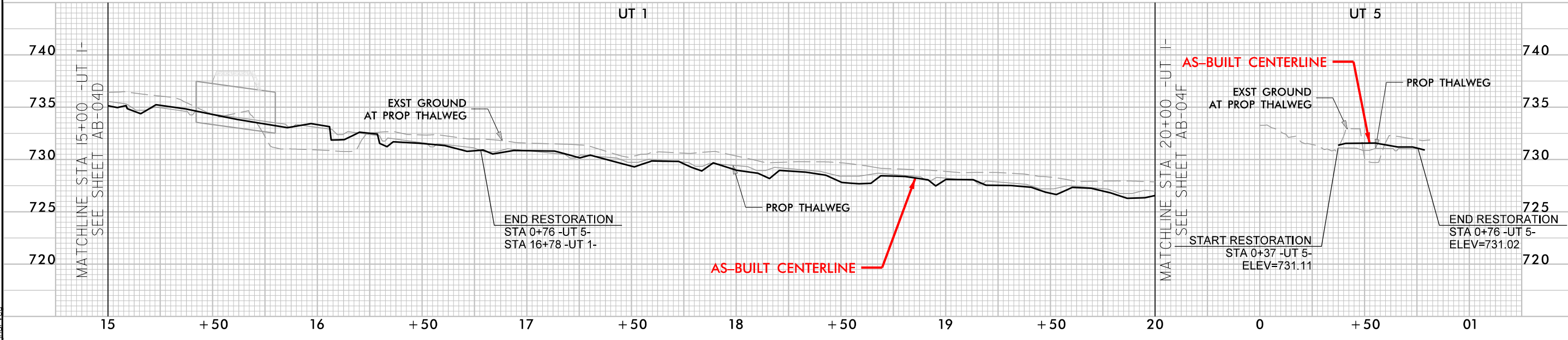
HORIZONTAL DATUM: NAD 83 (2011)
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RALEIGH, NC 27606
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-UT 1- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 759,318.86 | 1,737,775.95 | 735.28 | 735.16 |
| CROSS VANE | 759,277.20 | 1,737,689.03 | 732.84 | 733.14 |
| CROSS VANE | 759,264.29 | 1,737,670.60 | 732.23 | 732.43 |



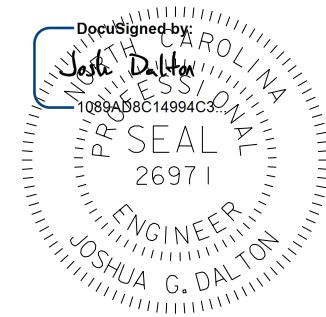
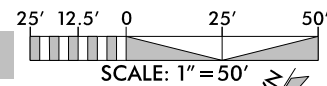
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
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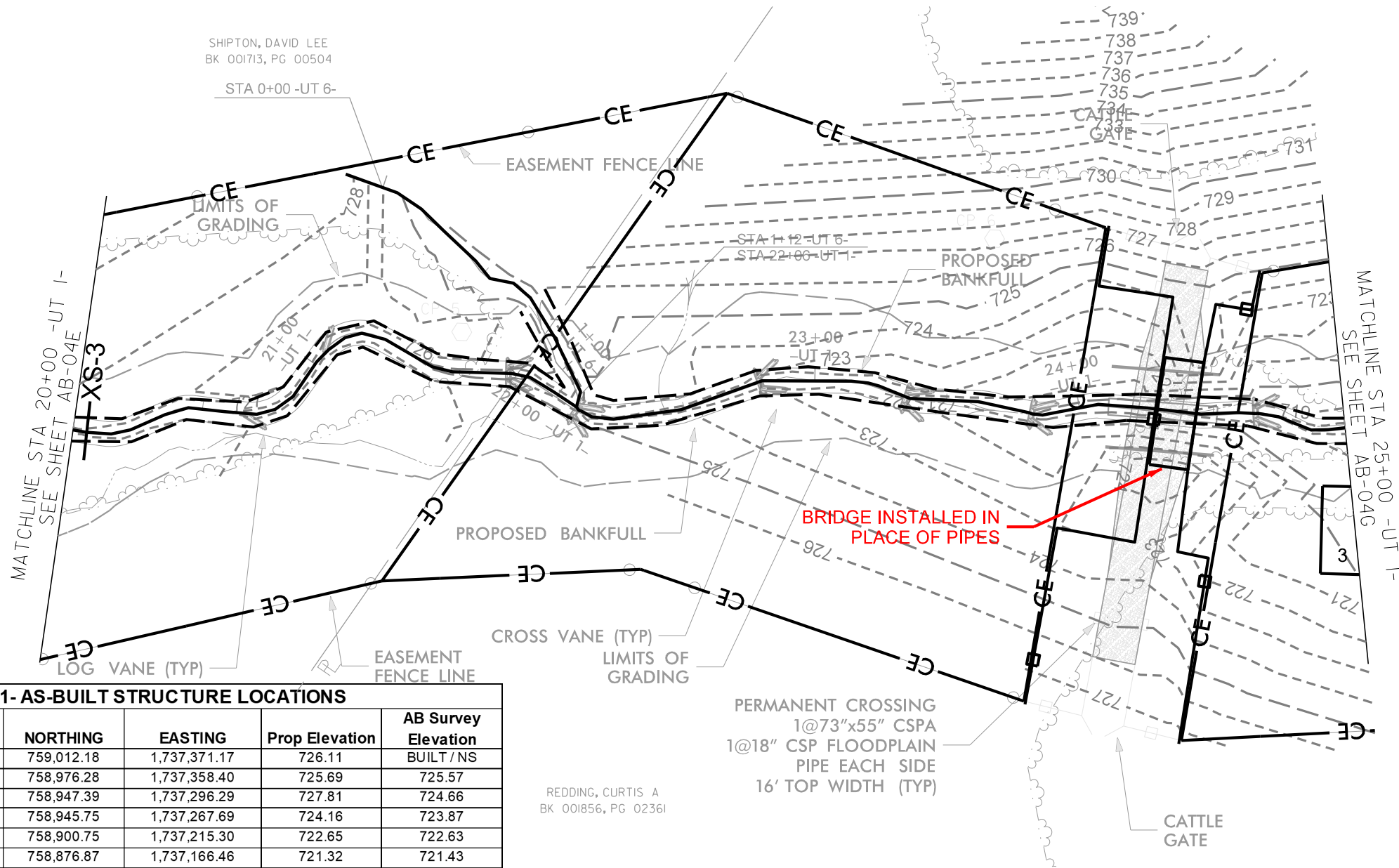
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HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



-UT 1- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| LOG VANE | 759,012.18 | 1,737,371.17 | 726.11 | BUILT / NS |
| LOG VANE | 758,976.28 | 1,737,358.40 | 725.69 | 725.57 |
| CROSS VANE | 758,947.39 | 1,737,296.29 | 727.81 | 724.66 |
| CROSS VANE | 758,945.75 | 1,737,267.69 | 724.16 | 723.87 |
| CROSS VANE | 758,900.75 | 1,737,215.30 | 722.65 | 722.63 |
| CROSS VANE | 758,876.87 | 1,737,166.46 | 721.32 | 721.43 |
| CROSS VANE | 758,856.99 | 1,737,123.87 | 720.38 | 720.43 |
| CROSS VANE | 758,812.65 | 1,737,053.63 | 718.58 | 718.37 |

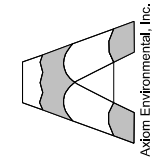
PERMANENT CROSSING
 1@73"x55" CSPA
 1@18" CSP FLOODPLAIN
 PIPE EACH SIDE
 16' TOP WIDTH (TYP)

REDDING, CURTIS A
 BK 001856, PG 02361



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 BullChute_PSH_AB-04F.dgn

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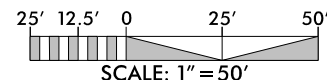
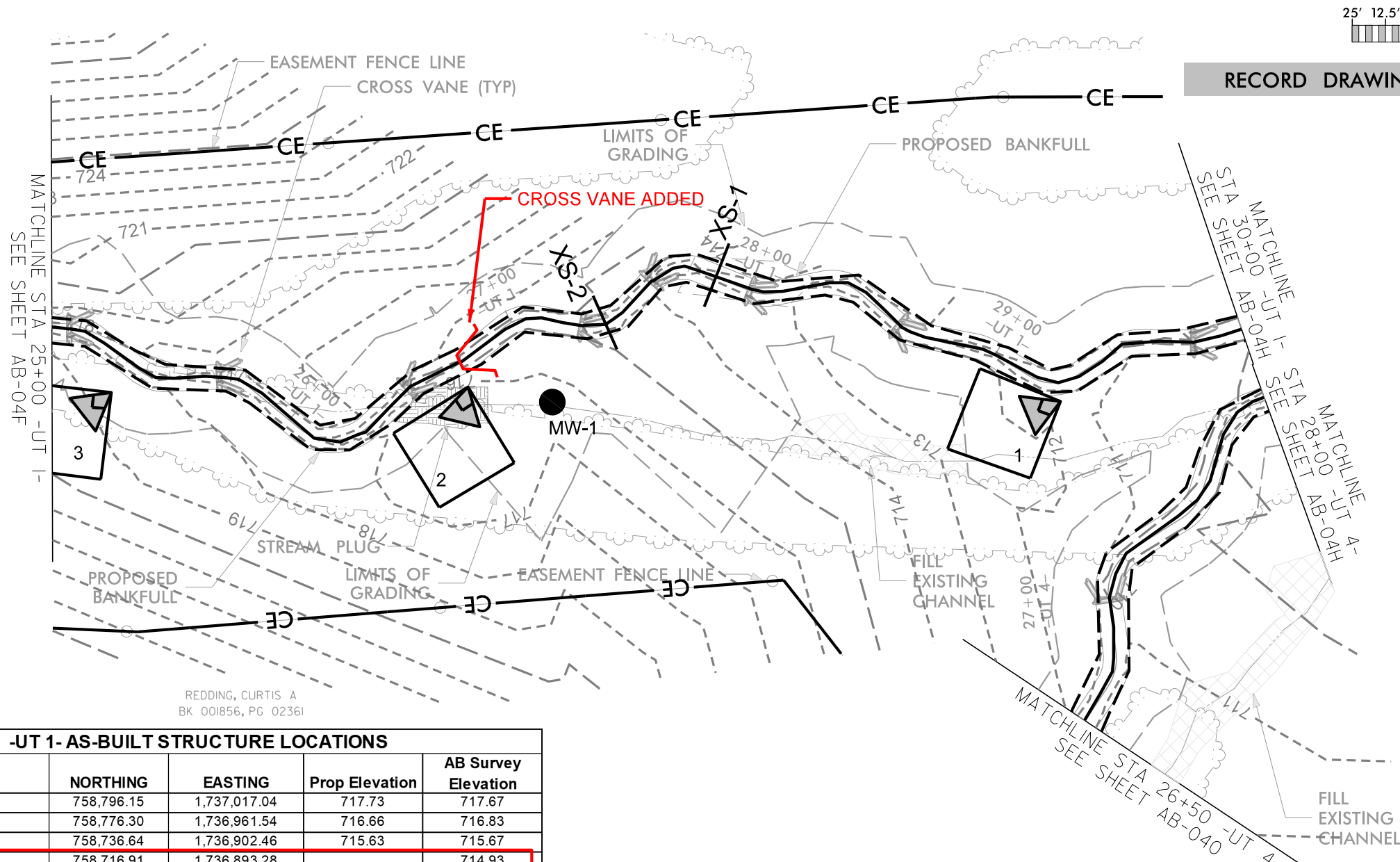


BULL CHUTE
 RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

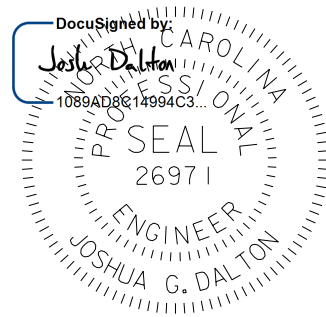
PROJECT # :
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VERTICAL DATUM: NAVD 1988

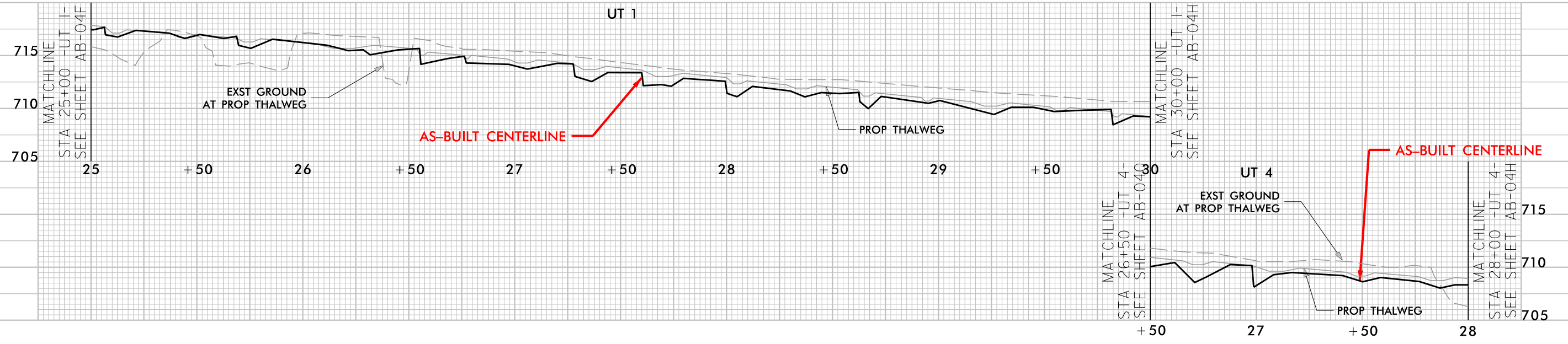
REDDING, CURTIS A
 BK 001856, PG 02361

-UT 1- AS-BUILT STRUCTURE LOCATIONS

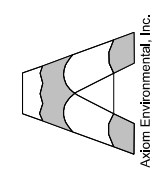
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 758,796.15 | 1,737,017.04 | 717.73 | 717.67 |
| CROSS VANE | 758,776.30 | 1,736,961.54 | 716.66 | 716.83 |
| CROSS VANE | 758,736.64 | 1,736,902.46 | 715.63 | 715.67 |
| CROSS VANE | 758,716.91 | 1,736,893.28 | 714.93 | 714.93 |
| CROSS VANE | 758,678.61 | 1,736,865.13 | 714.27 | 714.21 |
| CROSS VANE | 758,649.05 | 1,736,854.80 | 713.63 | 713.38 |
| CROSS VANE | 758,629.55 | 1,736,823.19 | 712.92 | 712.57 |
| CROSS VANE | 758,606.00 | 1,736,771.07 | 711.77 | 711.52 |

-UT 4- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 758,639.57 | 1,736,646.04 | 710.12 | 710.15 |



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BULL CHUTE
 RANDOLPH COUNTY, NC

AS-BUILT STRUCTURES

PROJECT # :
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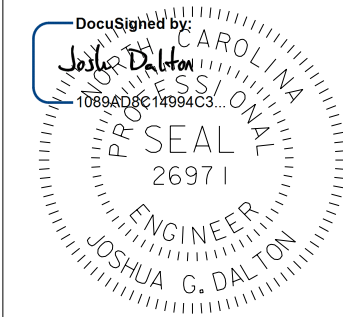
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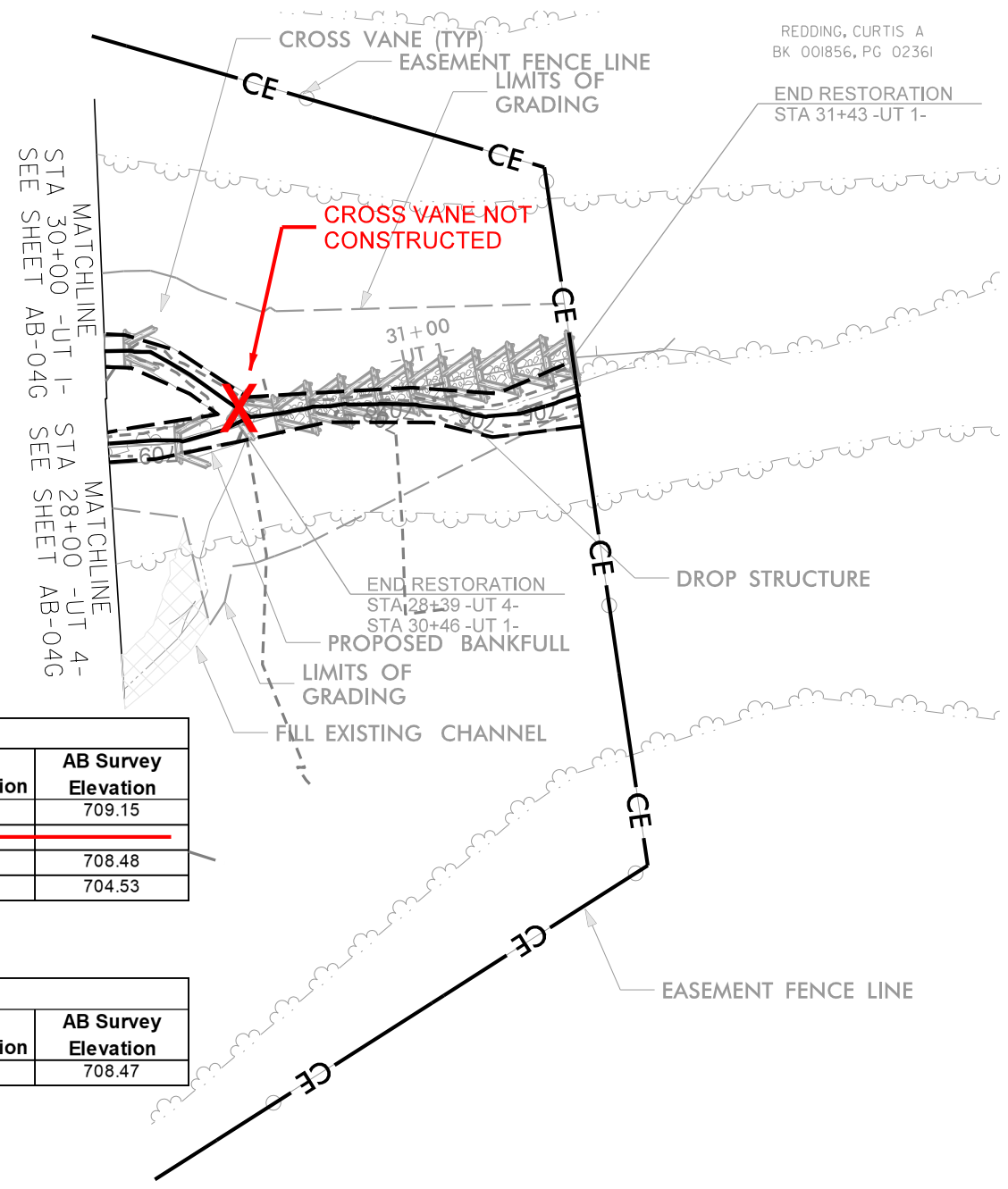
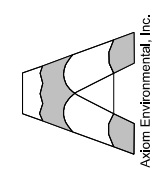


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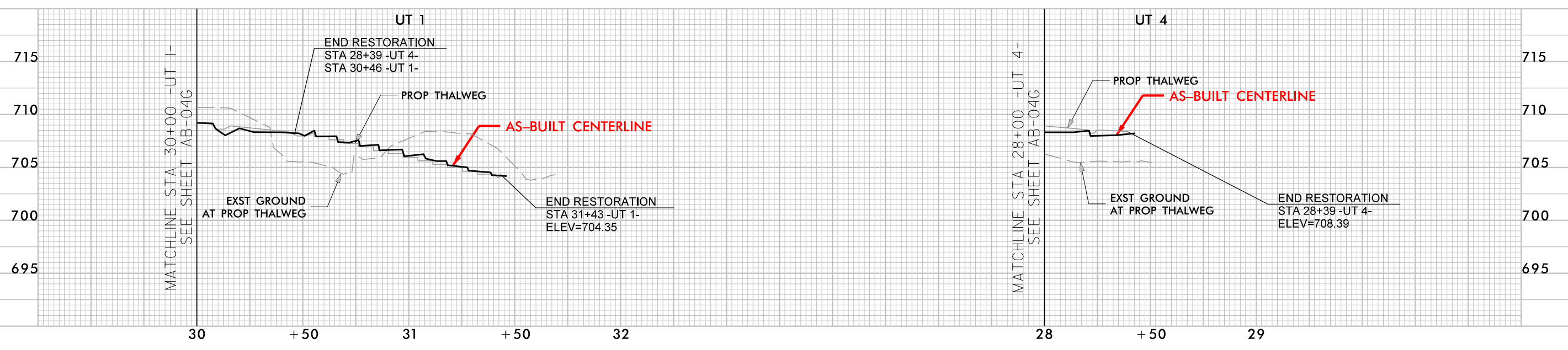
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RALEIGH, NC 27604
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| -UT 1- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|-----------------------|-------------------------|-------------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 758,523.24 | 1,736,664.87 | 709.12 | 709.15 |
| CROSS VANE | 758,506.00 | 1,736,632.20 | 708.37 | |
| DROP STRUCTURE | 758,499.00 | 1,736,623.75 | 708.27 | 708.48 |
| DROP STRUCTURE | 758,419.84 | 1,736,586.29 | 704.36 | 704.53 |

| -UT 4- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 758,527.25 | 1,736,634.01 | 708.56 | 708.47 |



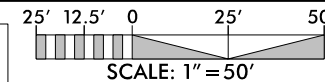
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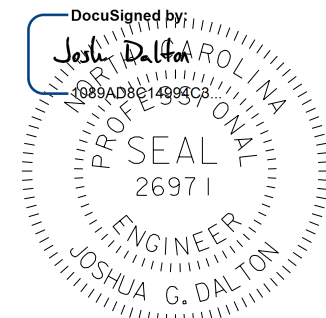
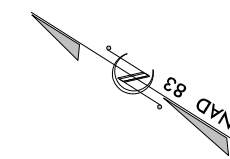
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REVIEWED BY: JGD
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SHEET NO. **AB-04H**

BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



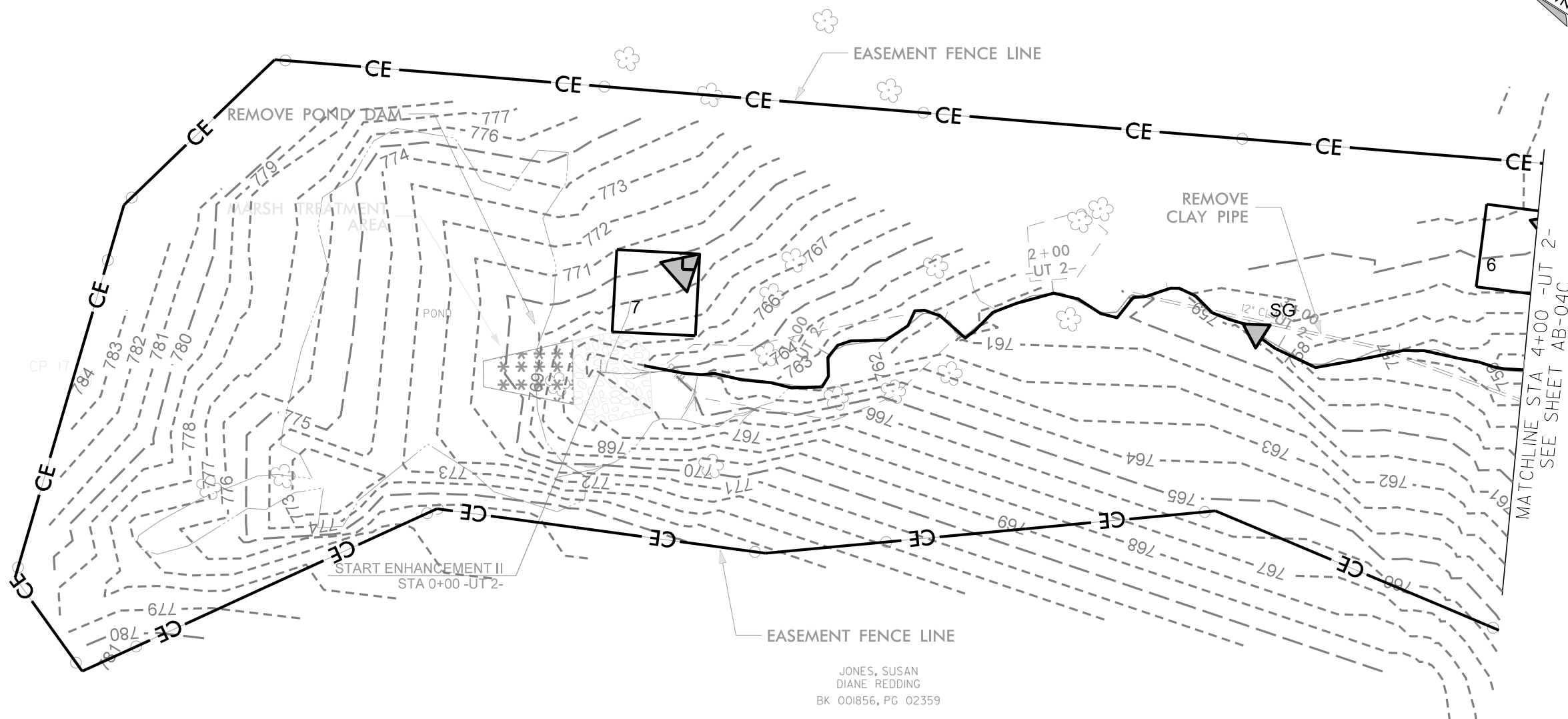
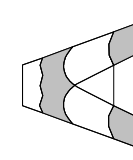
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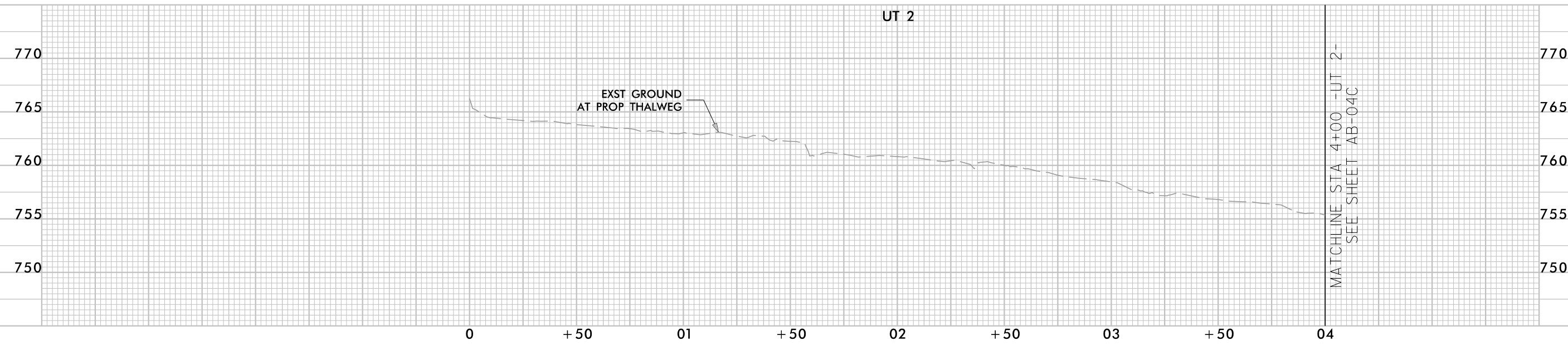
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JONES, SUSAN
DIANE REDDING
BK 001856, PG 02359



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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
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DATE: 2022
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REVIEWED BY: JGD
REVISIONS:

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AB-04I

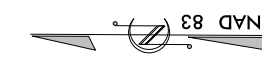
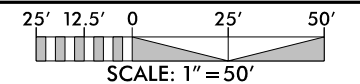
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-UT 4- AS-BUILT STRUCTURE LOCATIONS

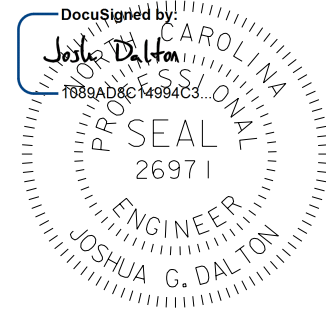
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 760,907.01 | 1,736,070.30 | 761.77 | 761.92 |
| CROSS VANE | 760,848.88 | 1,736,043.28 | 760.27 | BUILT / NS |
| CROSS VANE | 760,838.72 | 1,736,042.06 | 759.78 | 759.84 |
| CROSS VANE | 760,824.39 | 1,736,047.63 | 759.21 | 759.27 |
| CROSS VANE | 760,809.92 | 1,736,046.94 | 758.67 | 758.70 |
| CROSS VANE | 760,752.71 | 1,736,063.38 | 757.19 | 757.26 |
| SILL STEP | 760,739.66 | 1,736,066.18 | 756.60 | 756.53 |
| CROSS VANE | 760,725.04 | 1,736,063.02 | 755.78 | 755.68 |
| SILL STEP | 760,709.27 | 1,736,070.63 | 755.16 | 754.99 |
| SILL STEP | 760,697.97 | 1,736,073.60 | 754.41 | 754.51 |
| SILL STEP | 760,674.66 | 1,736,090.56 | 753.41 | 753.13 |

-UT 4- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| SILL STEP | 760,663.18 | 1,736,107.94 | 752.57 | 752.48 |
| CROSS VANE | 760,612.01 | 1,736,106.18 | 751.28 | 751.32 |
| CROSS VANE | 760,590.48 | 1,736,094.17 | 750.80 | 750.88 |
| CROSS VANE | 760,545.86 | 1,736,099.74 | 749.96 | 749.91 |
| CROSS VANE | 760,501.69 | 1,736,079.94 | 749.09 | 749.11 |



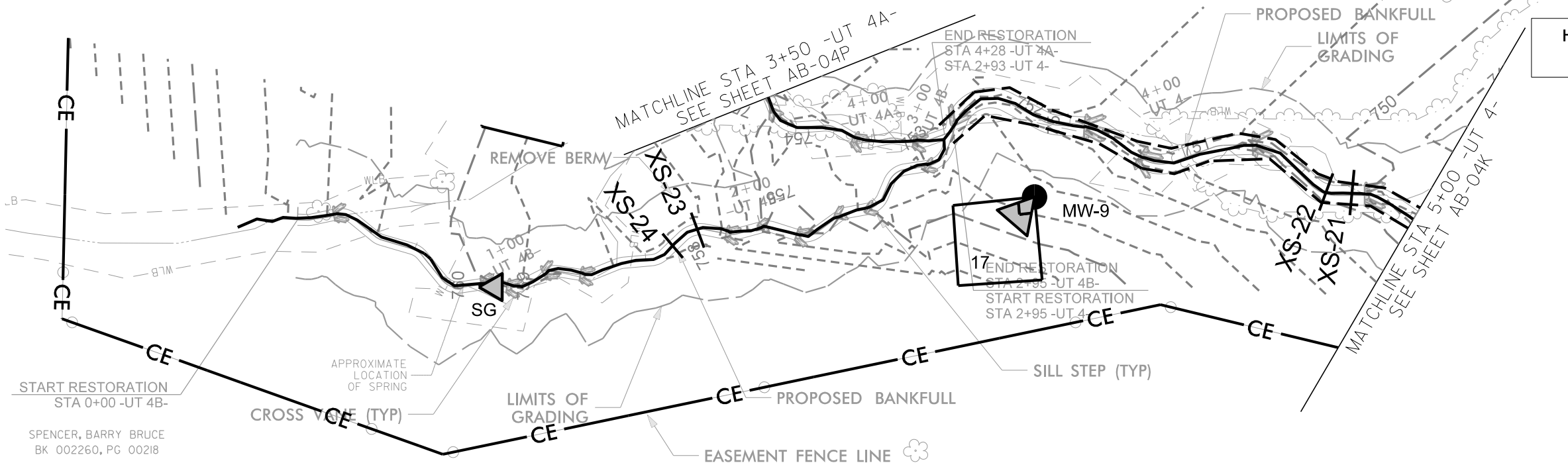
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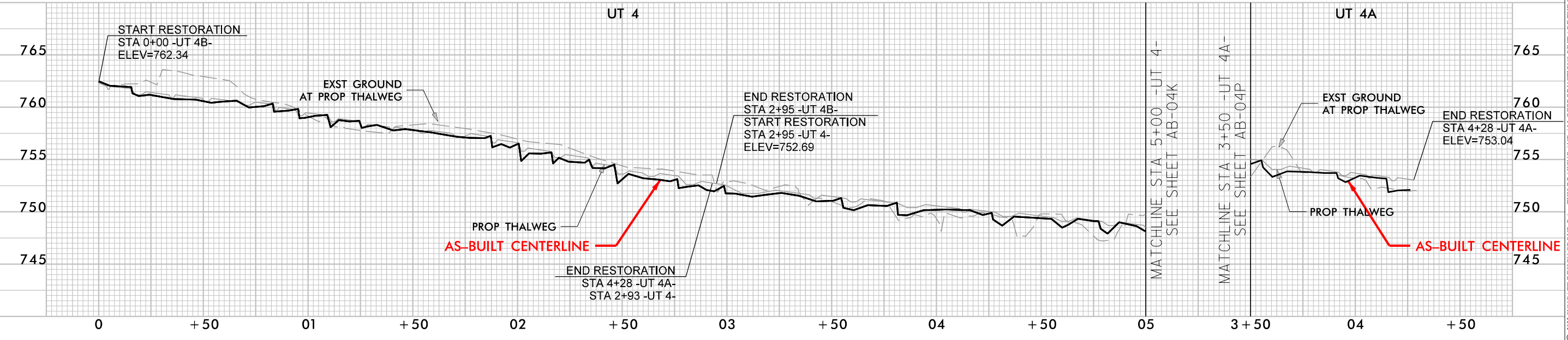
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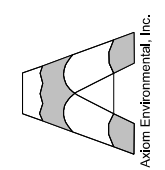


-UT 4A- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| SILL STEP | 760,734.86 | 1,736,111.78 | 754.86 | 754.92 |
| CROSS VANE | 760,703.01 | 1,736,100.80 | 753.79 | 753.71 |
| CROSS VANE | 760,679.25 | 1,736,100.09 | 753.29 | 753.16 |



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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

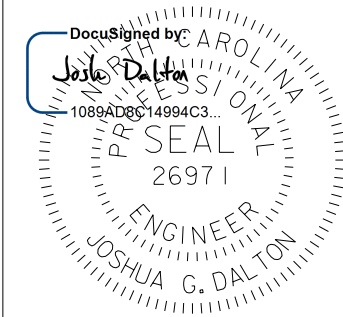
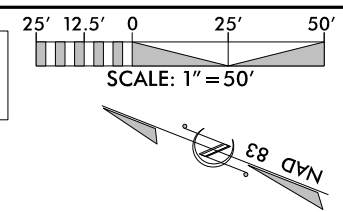
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| -UT 4C- AS-BUILT STRUCTURE LOCATIONS | | | | |
|--------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 760,412.52 | 1,736,054.25 | 747.30 | 747.29 |
| SILL STEP | 760,404.05 | 1,736,061.52 | 747.16 | BUILT / NS |
| SILL STEP | 760,391.91 | 1,736,070.92 | 746.30 | 746.48 |
| CROSS VANE | 760,382.39 | 1,736,073.63 | 745.61 | 745.70 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988

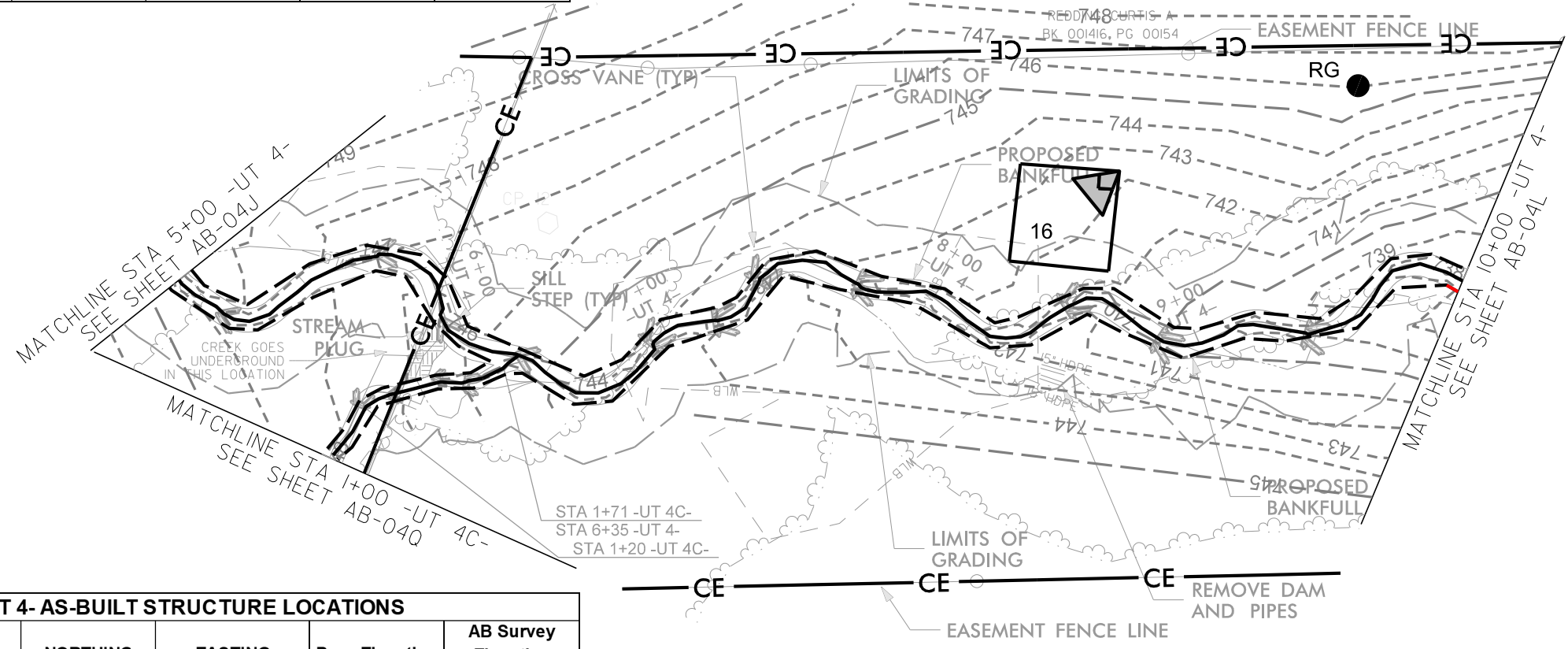
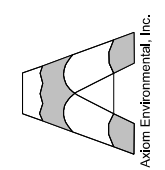


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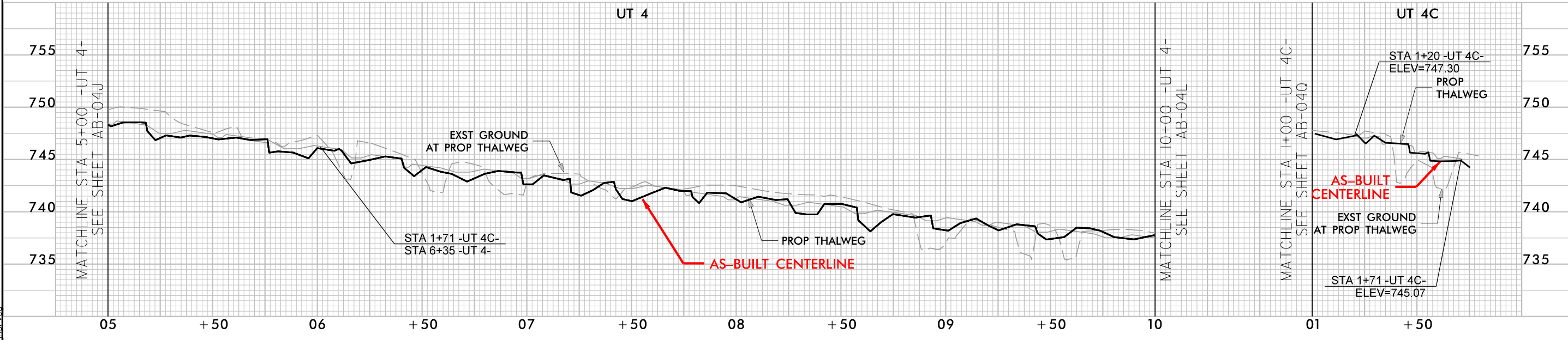
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SUNGATE, NORTH CAROLINA 27866
TEL: (919) 855-2243
ENG FIRM LICENSE NO. C-980



| -UT 4- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| SILL STEP | 760,465.76 | 1,736,065.81 | 748.30 | 748.51 |
| SILL STEP | 760,423.72 | 1,736,102.15 | 746.83 | 746.95 |
| SILL STEP | 760,395.95 | 1,736,090.11 | 745.96 | 746.01 |
| SILL STEP | 760,368.77 | 1,736,087.71 | 745.06 | 745.09 |
| CROSS VANE | 760,330.29 | 1,736,108.30 | 743.70 | 743.75 |
| CROSS VANE | 760,313.02 | 1,736,122.72 | 743.16 | 743.16 |
| CROSS VANE | 760,304.88 | 1,736,140.57 | 742.74 | 742.88 |
| CROSS VANE | 760,273.67 | 1,736,151.67 | 742.07 | 741.97 |
| CROSS VANE | 760,206.95 | 1,736,169.90 | 740.46 | 740.41 |
| CROSS VANE | 760,174.41 | 1,736,170.89 | 739.64 | 739.65 |
| CROSS VANE | 760,129.49 | 760,129.49 | 738.65 | 738.61 |



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BULL CHUTE
RANDOLPH COUNTY, NC

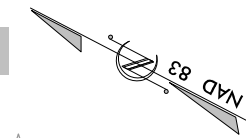
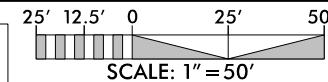
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
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REVIEWED BY: JGD
REVISIONS:
SHEET NO. **AB-04K**

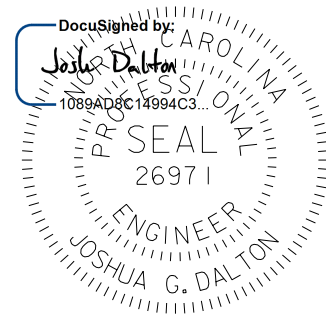
-UT 4- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 759,983.37 | 1,736,263.17 | 735.15 | 735.09 |
| CROSS VANE | 759,953.84 | 1,736,272.42 | 734.44 | 734.52 |
| CROSS VANE | 759,932.41 | 1,736,283.88 | 733.82 | 734.05 |
| LOG VANE | 759,776.05 | 1,736,318.22 | 730.79 | 730.64 |
| CROSS VANE | 759,745.49 | 1,736,366.18 | 729.99 | 730.25 |
| CROSS VANE | 759,711.42 | 1,736,408.70 | 728.84 | 728.56 |
| CROSS VANE | 759,698.35 | 1,736,425.81 | 728.37 | 728.45 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



RECORD DRAWING

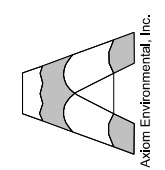


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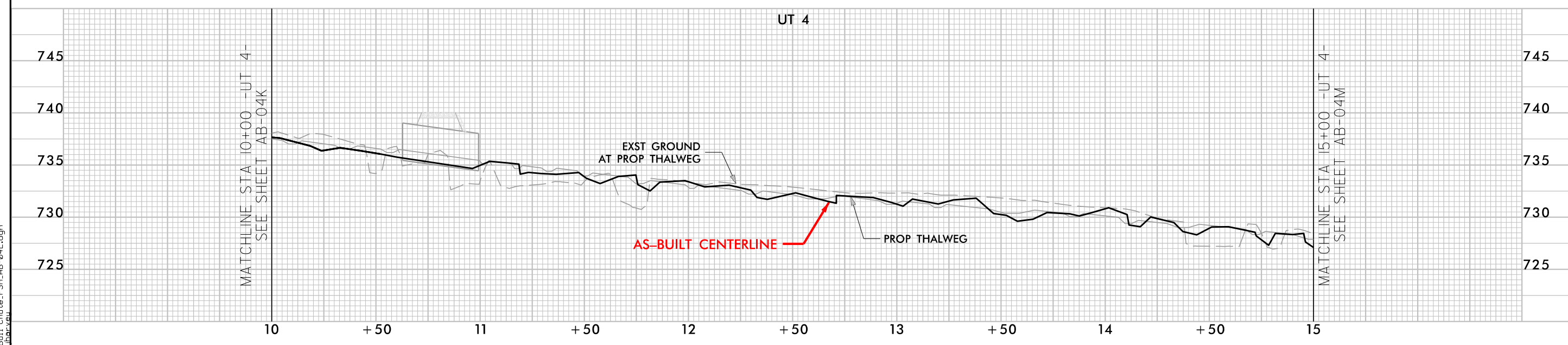
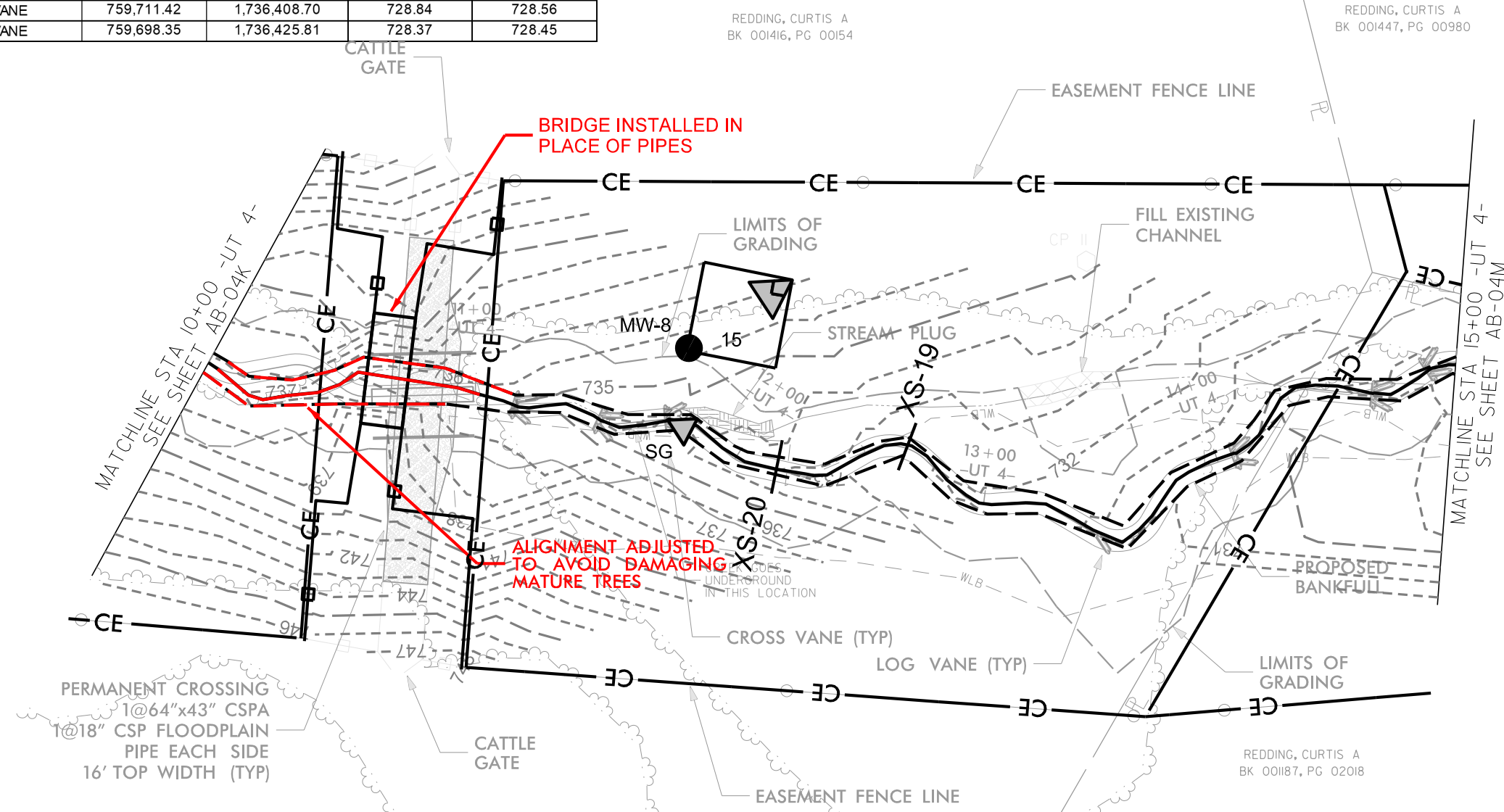
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834 GILES FARM ROAD
SUNGATE, NORTH CAROLINA 27866
TEL: (919) 855-2243
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
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REVIEWED BY: JGD
REVISIONS:

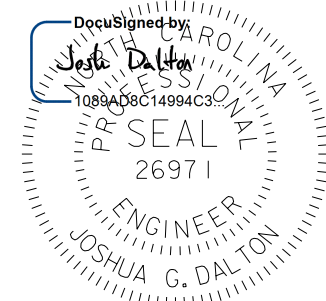
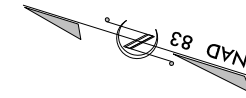
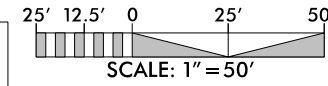
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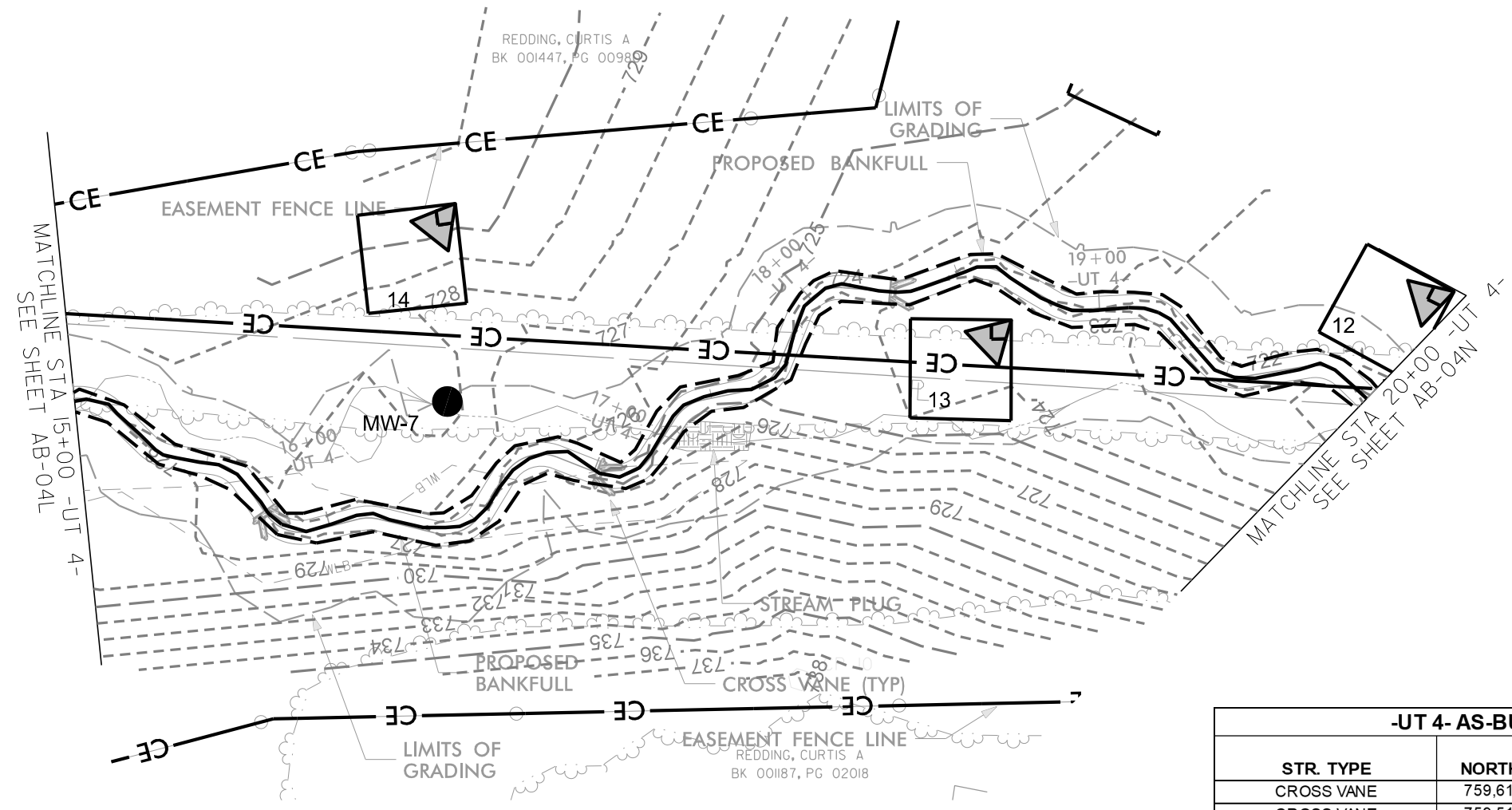
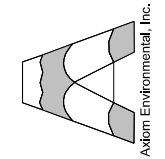


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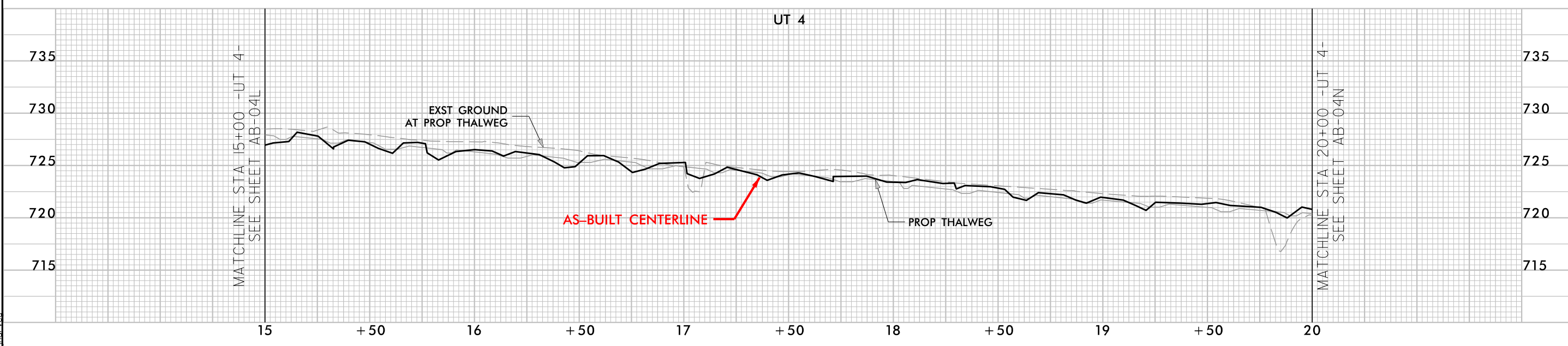
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SUNGATE, NC 27886
TEL: (919) 855-2243
ENG FIRM LICENSE NO. C-980



-UT 4- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 759,619.83 | 1,736,415.50 | 727.16 | 727.09 |
| CROSS VANE | 759,519.80 | 1,736,460.50 | 725.28 | 725.29 |
| CROSS VANE | 759,445.98 | 1,736,545.63 | 723.40 | 723.32 |



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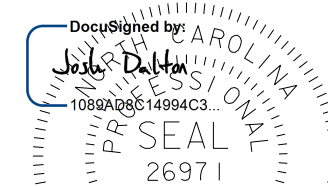
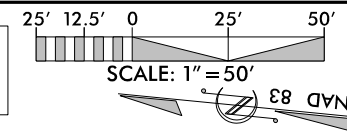
BULL CHUTE
RANDOLPH COUNTY, NC

AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:
SHEET NO.
AB-04M

| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 759,209.75 | 1,736,611.53 | 720.01 | 720.07 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



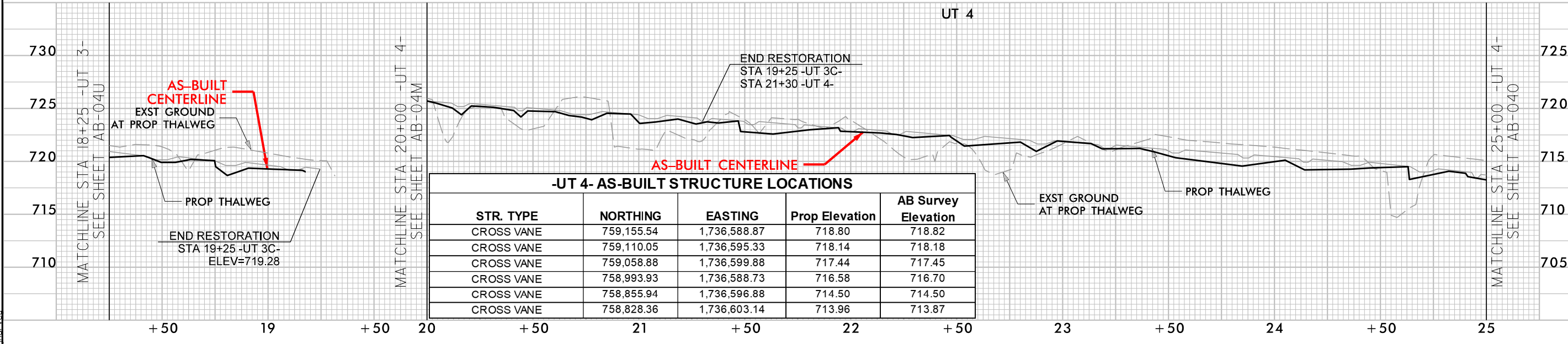
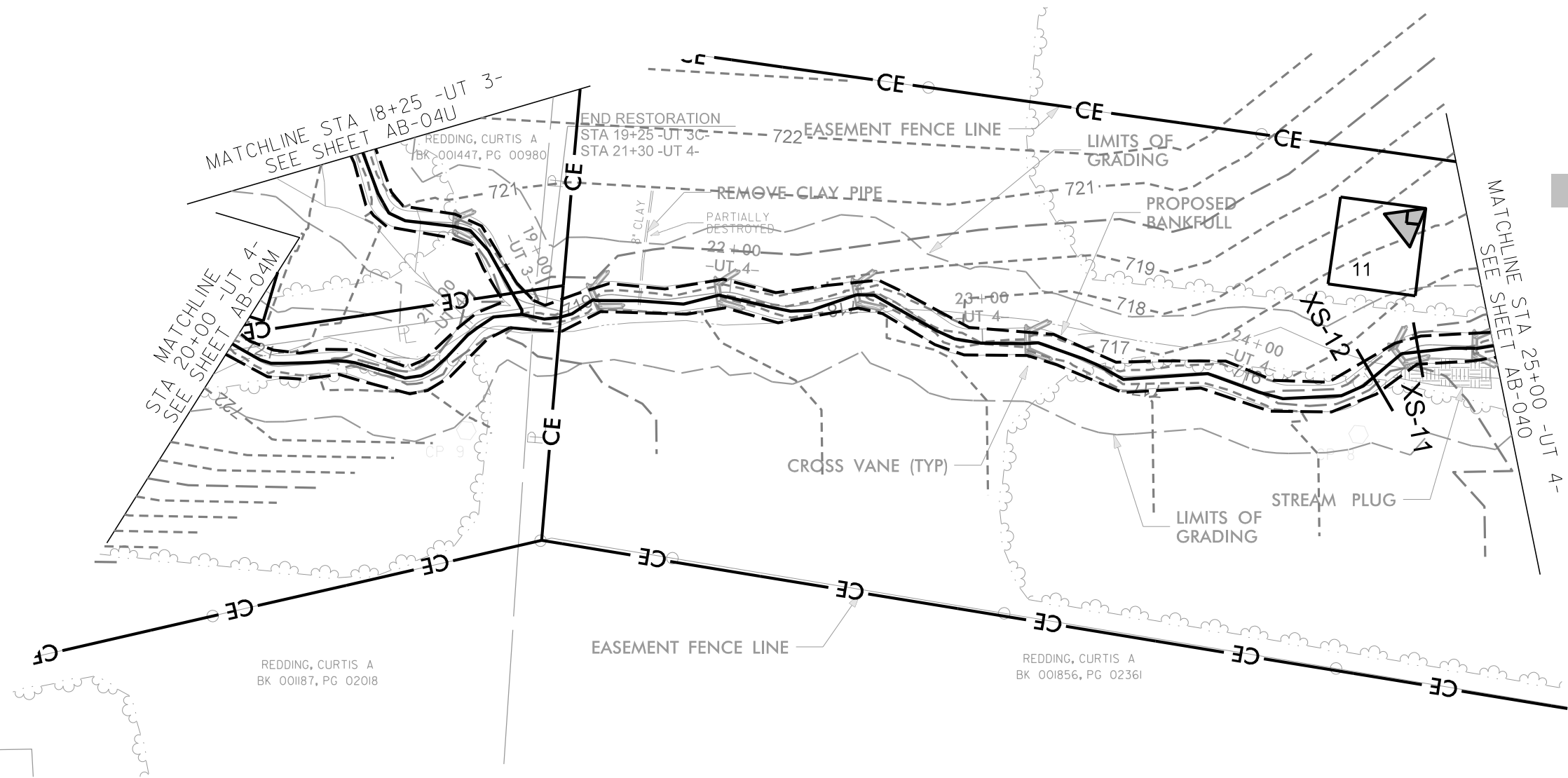
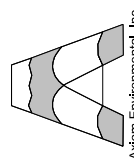
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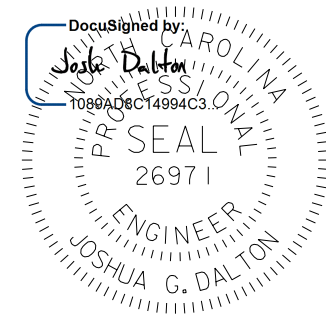
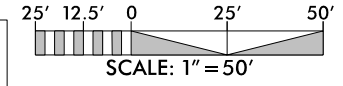
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

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VERTICAL DATUM: NAVD 1988

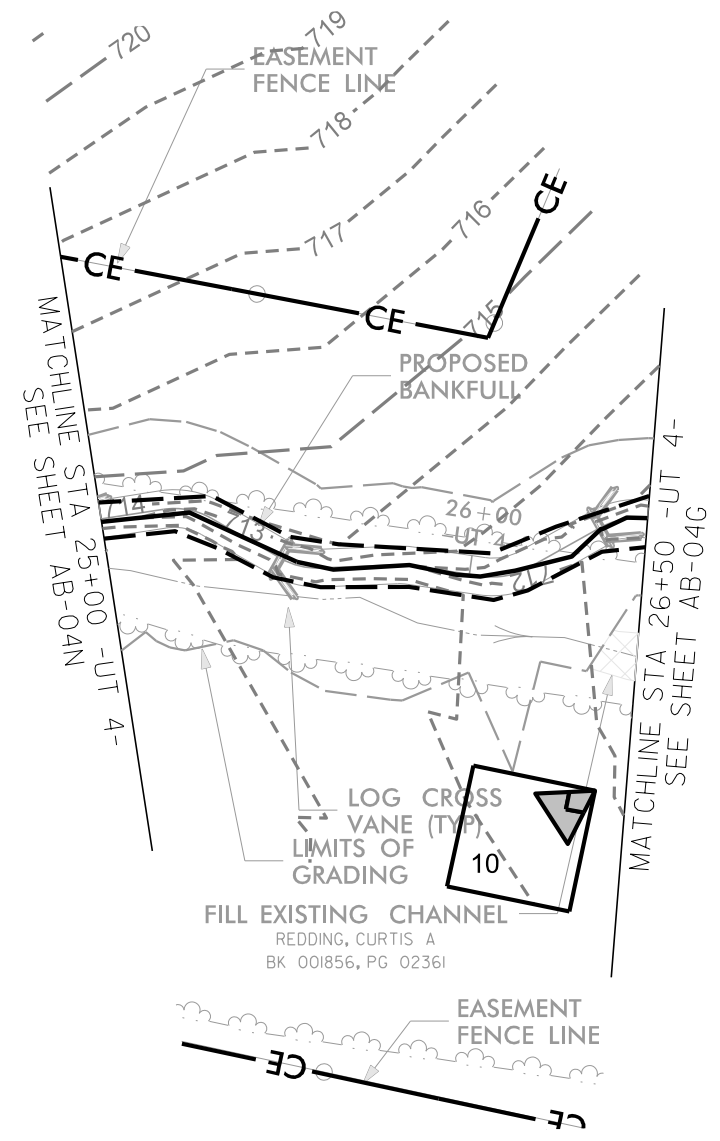
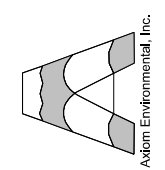


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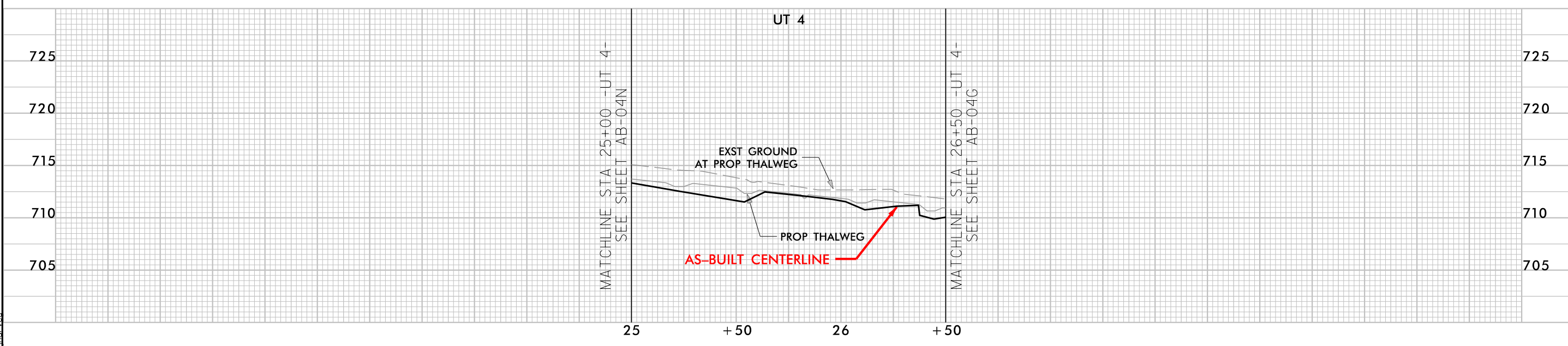
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835 GILES FARM ROAD
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TEL: (919) 856-2243
ENG FIRM LICENSE NO. C-980



| -UT 4- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 758,773.81 | 1,736,601.36 | 712.84 | 712.82 |
| CROSS VANE | 758,692.57 | 1,736,621.45 | 711.26 | 711.20 |



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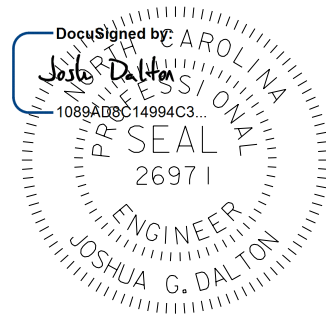
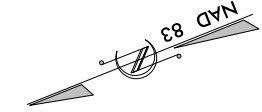
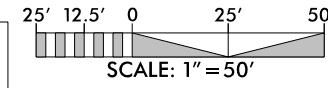
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RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

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AB-040

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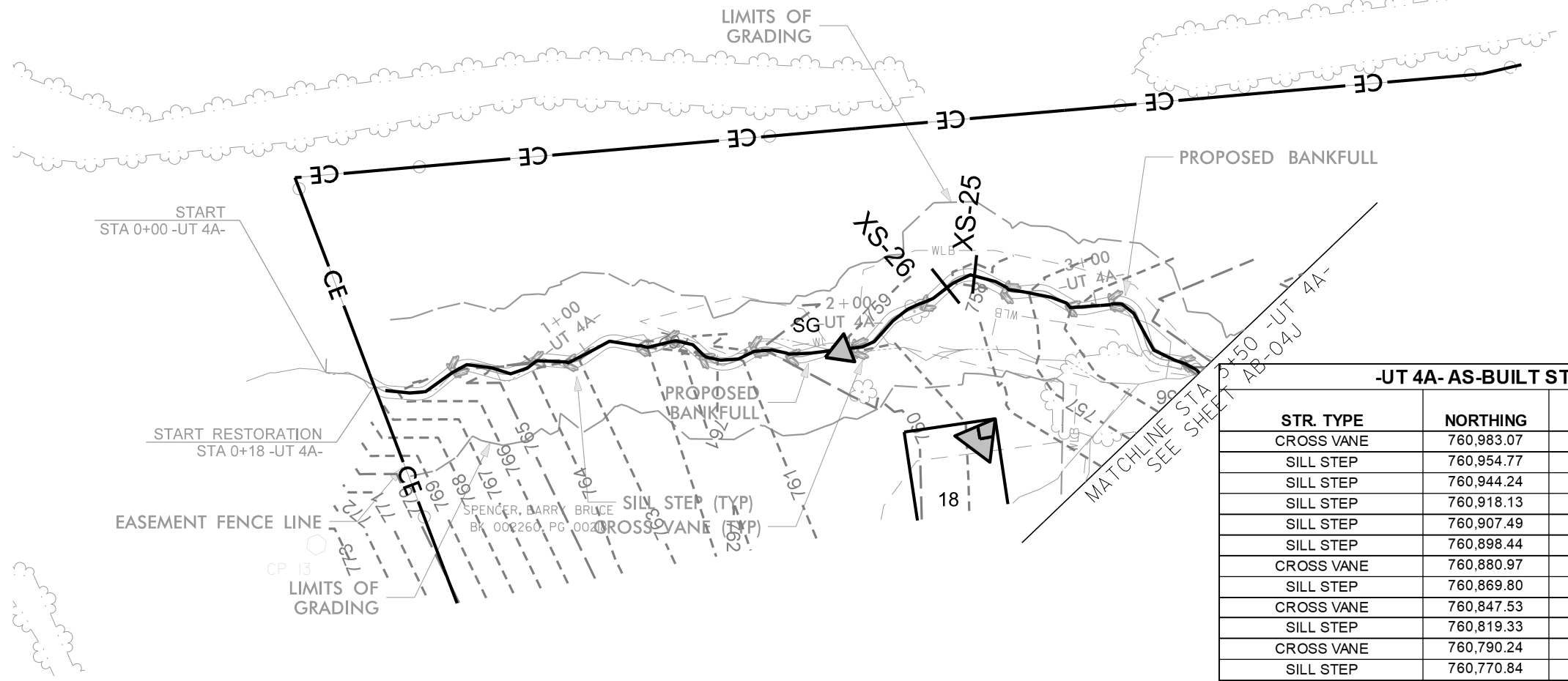
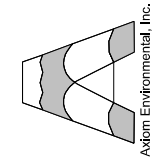
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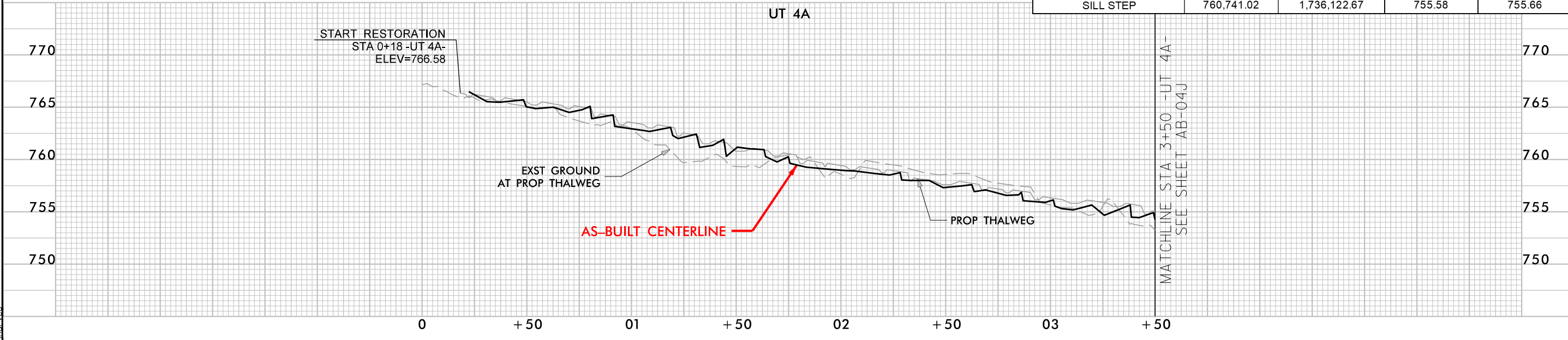
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ENG. FIRM LICENSE NO. C-890



-UT 4A- AS-BUILT STRUCTURE LOCATIONS

| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
|------------|------------|--------------|----------------|---------------------|
| CROSS VANE | 760,983.07 | 1,736,216.46 | 765.54 | 765.71 |
| SILL STEP | 760,954.77 | 1,736,208.36 | 764.87 | 765.08 |
| SILL STEP | 760,944.24 | 1,736,204.22 | 764.11 | 764.27 |
| SILL STEP | 760,918.13 | 1,736,199.74 | 763.04 | 763.07 |
| SILL STEP | 760,907.49 | 1,736,197.75 | 762.30 | 762.43 |
| SILL STEP | 760,898.44 | 1,736,187.99 | 761.59 | 761.93 |
| CROSS VANE | 760,880.97 | 1,736,183.47 | 760.84 | 760.95 |
| SILL STEP | 760,869.80 | 1,736,177.10 | 760.43 | 760.27 |
| CROSS VANE | 760,847.53 | 1,736,170.65 | 759.30 | BUILT / NS |
| SILL STEP | 760,819.33 | 1,736,176.11 | 758.74 | 758.75 |
| CROSS VANE | 760,790.24 | 1,736,170.29 | 757.62 | BUILT / NS |
| SILL STEP | 760,770.84 | 1,736,156.55 | 756.85 | 756.88 |
| CROSS VANE | 760,756.77 | 1,736,152.03 | 756.17 | 756.14 |
| SILL STEP | 760,741.02 | 1,736,122.67 | 755.58 | 755.66 |



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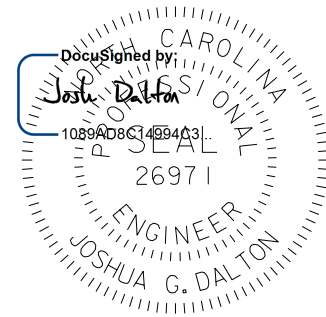
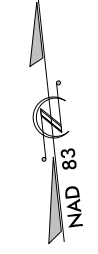
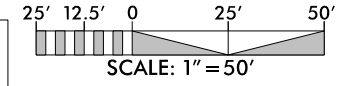
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

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AB-04P

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VERTICAL DATUM: NAVD 1988

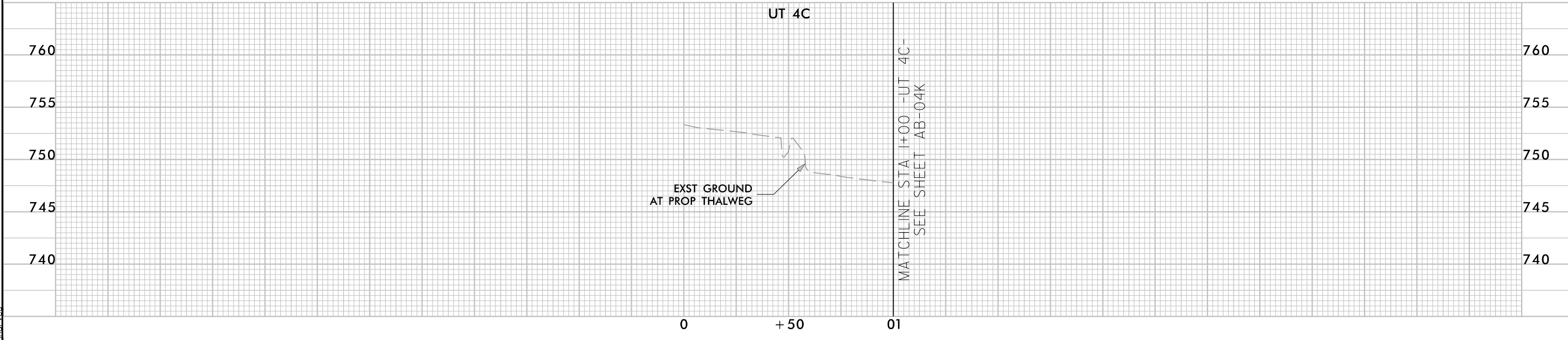
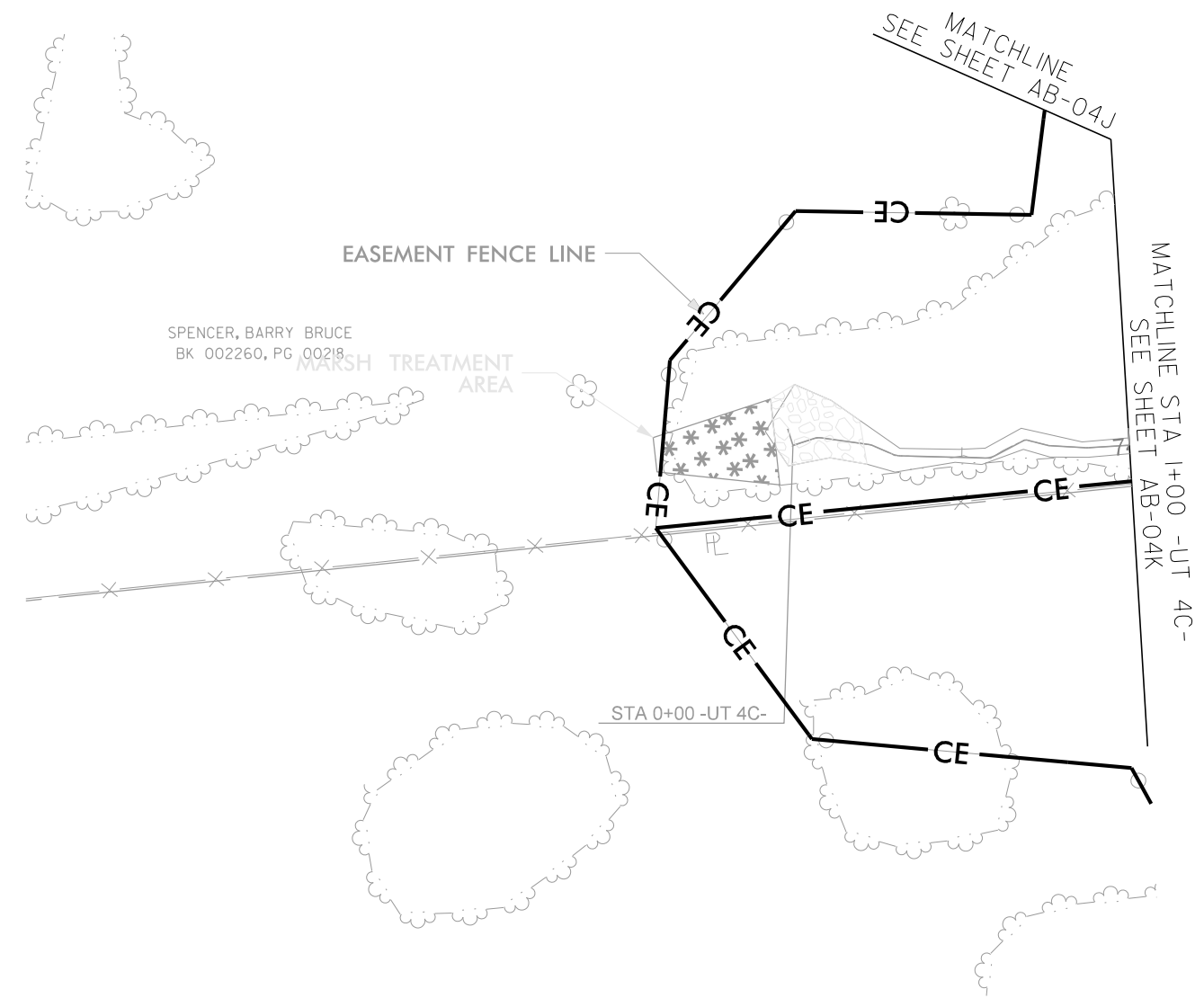
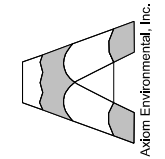


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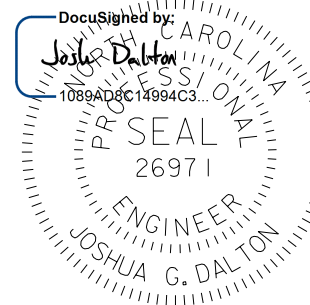
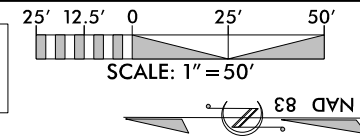
BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04Q

| -UT 7- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 760,586.34 | 1,737,293.22 | 759.25 | |
| CROSS VANE | 760,577.35 | 1,737,202.79 | 759.10 | 758.95 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



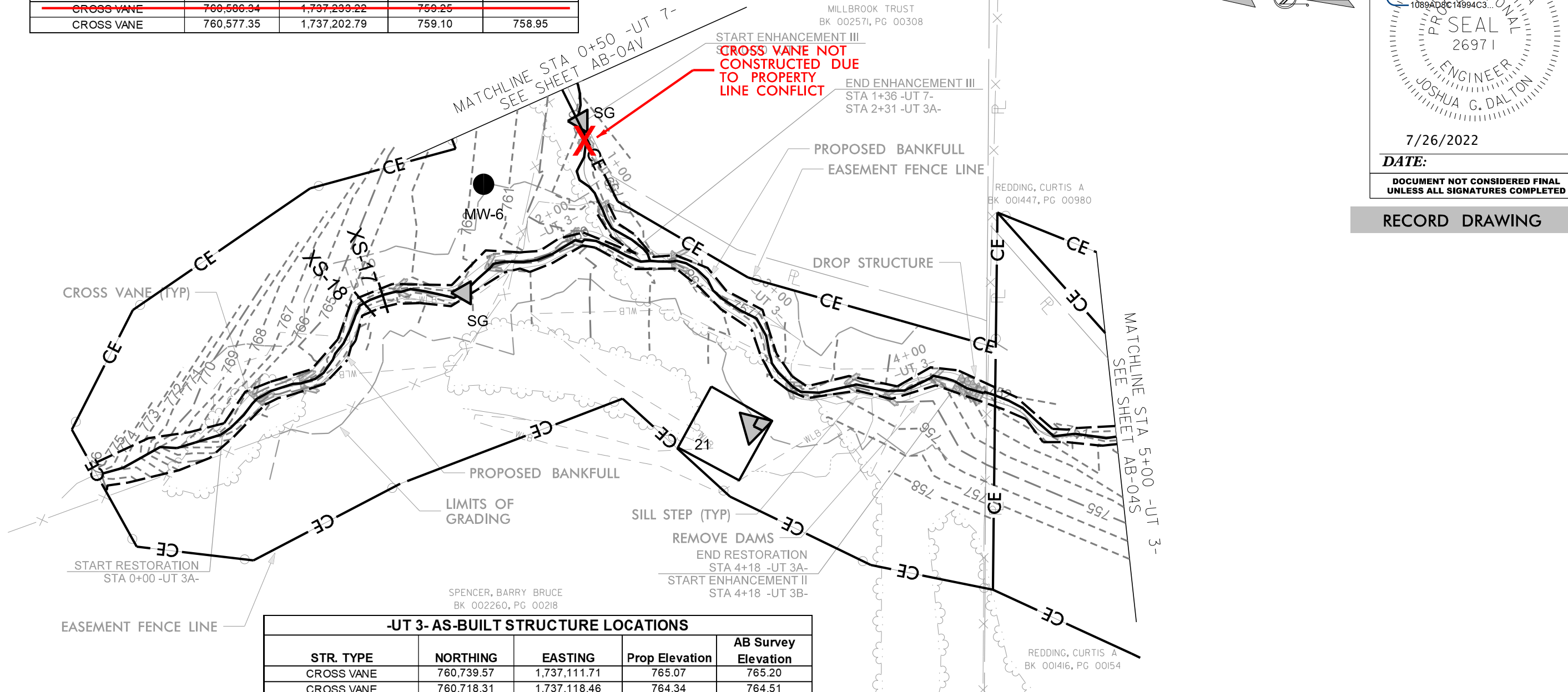
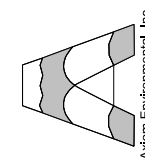
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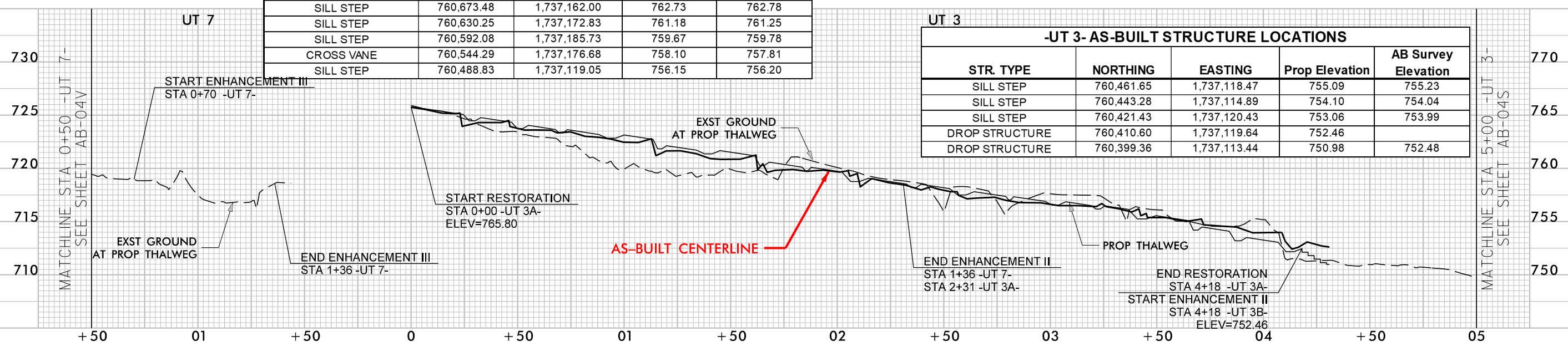
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RAVENEL, SOUTH CAROLINA 29866
TEL: (919) 855-2243
ENG FIRM LICENSE NO. C-890



| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 760,739.57 | 1,737,111.71 | 765.07 | 765.20 |
| CROSS VANE | 760,718.31 | 1,737,118.46 | 764.34 | 764.51 |
| SILL STEP | 760,673.48 | 1,737,162.00 | 762.73 | 762.78 |
| SILL STEP | 760,630.25 | 1,737,172.83 | 761.18 | 761.25 |
| SILL STEP | 760,592.08 | 1,737,185.73 | 759.67 | 759.78 |
| CROSS VANE | 760,544.29 | 1,737,176.68 | 758.10 | 757.81 |
| SILL STEP | 760,488.83 | 1,737,119.05 | 756.15 | 756.20 |

| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| SILL STEP | 760,461.65 | 1,737,118.47 | 755.09 | 755.23 |
| SILL STEP | 760,443.28 | 1,737,114.89 | 754.10 | 754.04 |
| SILL STEP | 760,421.43 | 1,737,120.43 | 753.06 | 753.99 |
| DROP STRUCTURE | 760,410.60 | 1,737,119.64 | 752.46 | |
| DROP STRUCTURE | 760,399.36 | 1,737,113.44 | 750.98 | 752.48 |



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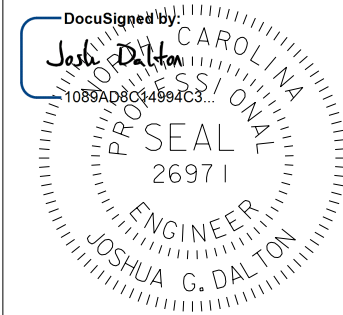
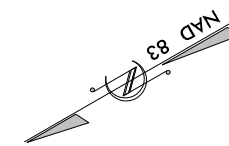
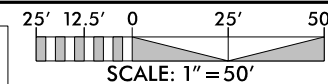
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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
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REVIEWED BY: JGD
REVISIONS:
SHEET NO.
AB-04R

| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 760,118.82 | 1,736,981.57 | 741.82 | 742.14 |
| CROSS VANE | 760,089.87 | 1,736,967.76 | 741.23 | BUILT / NS |
| CROSS VANE | 760,065.16 | 1,736,947.51 | 740.56 | 740.62 |
| CROSS VANE | 760,022.32 | 1,736,923.46 | 739.34 | 739.34 |
| CROSS VANE | 759,993.32 | 1,736,917.71 | 738.99 | 739.08 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



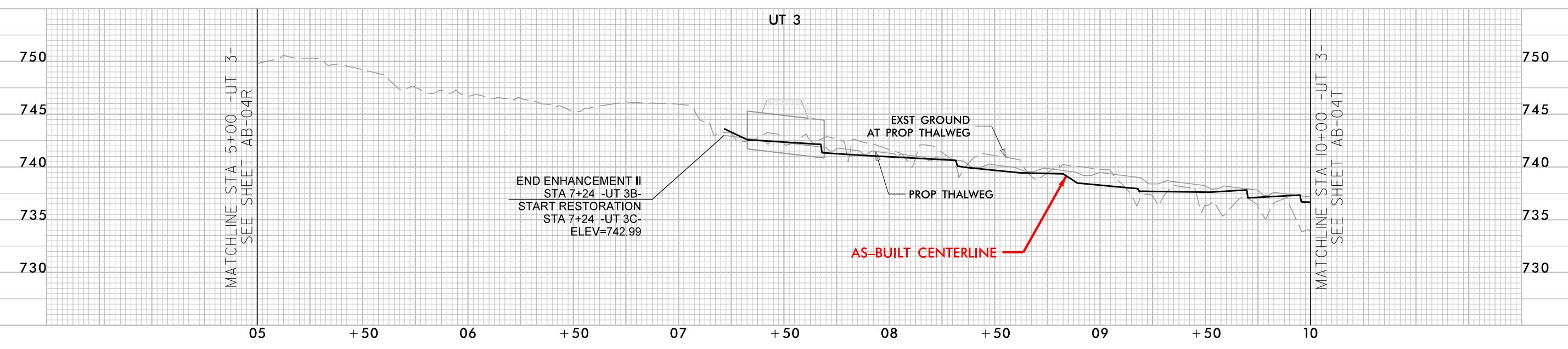
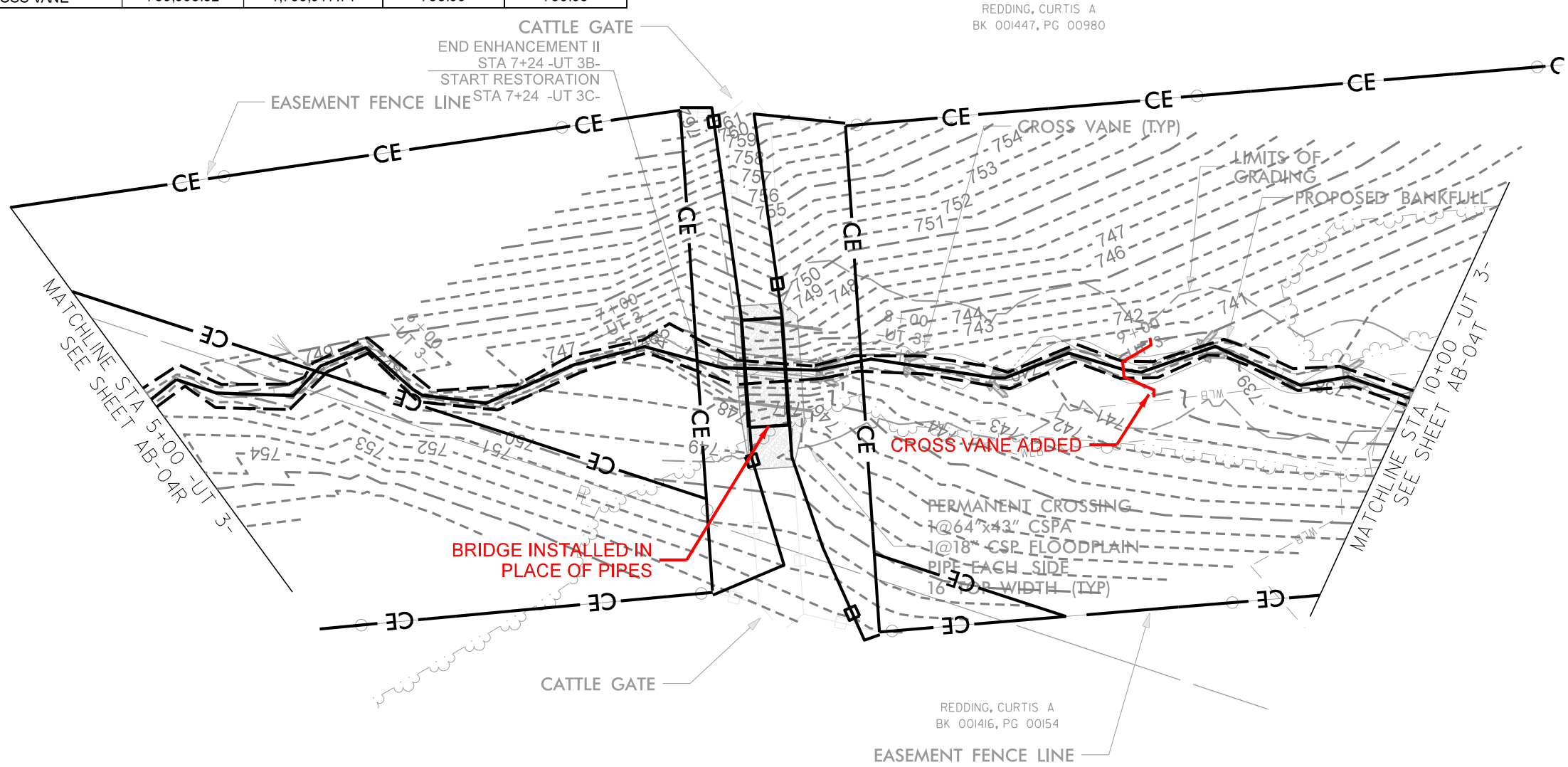
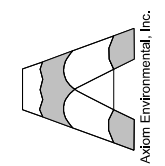
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TEL: (919) 855-2243
ENG FIRM LICENSE NO. C-980



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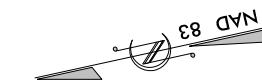
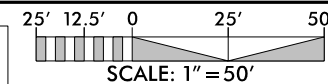
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DRAWING NAME:
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DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

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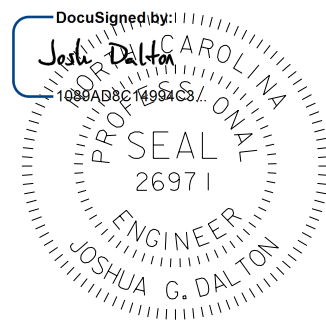
BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 759,936.81 | 1,736,864.49 | 737.15 | 737.33 |
| CROSS VANE | 759,822.33 | 1,736,856.80 | 734.75 | 734.88 |
| CROSS VANE | 759,754.48 | 1,736,844.82 | 733.19 | 733.13 |
| CROSS VANE | 759,704.27 | 1,736,827.61 | 731.98 | 732.10 |
| CROSS VANE | 759,628.21 | 1,736,824.97 | 730.23 | 730.27 |
| CROSS VANE | 759,599.83 | 1,736,786.35 | 729.13 | 729.14 |
| CROSS VANE | 759,532.58 | 1,736,793.78 | 727.61 | 727.63 |

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



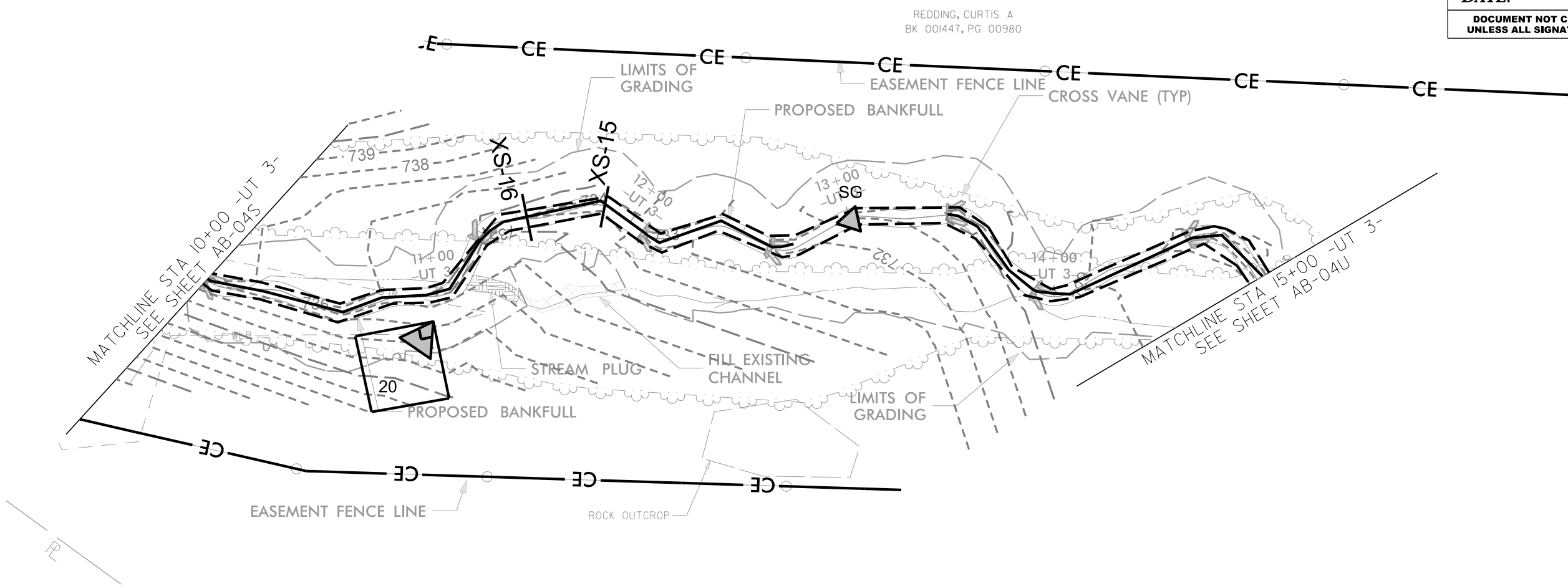
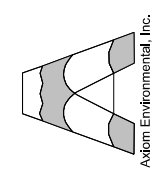
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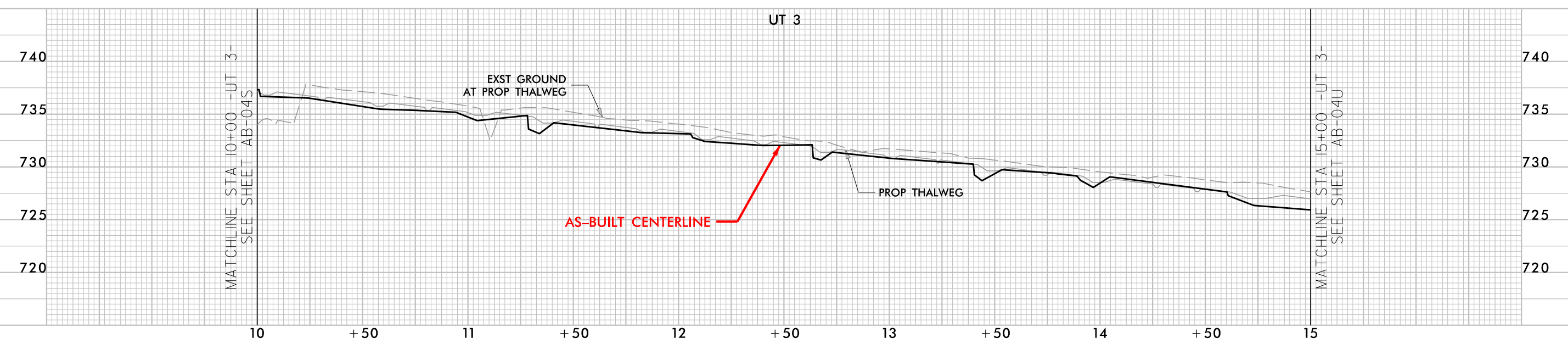
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REDDING, CURTIS A
BK 001447, PG 00980



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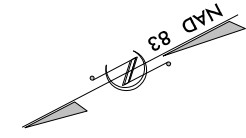
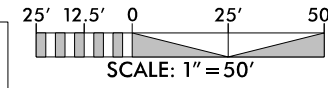
BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04T

7/26/2022
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HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988



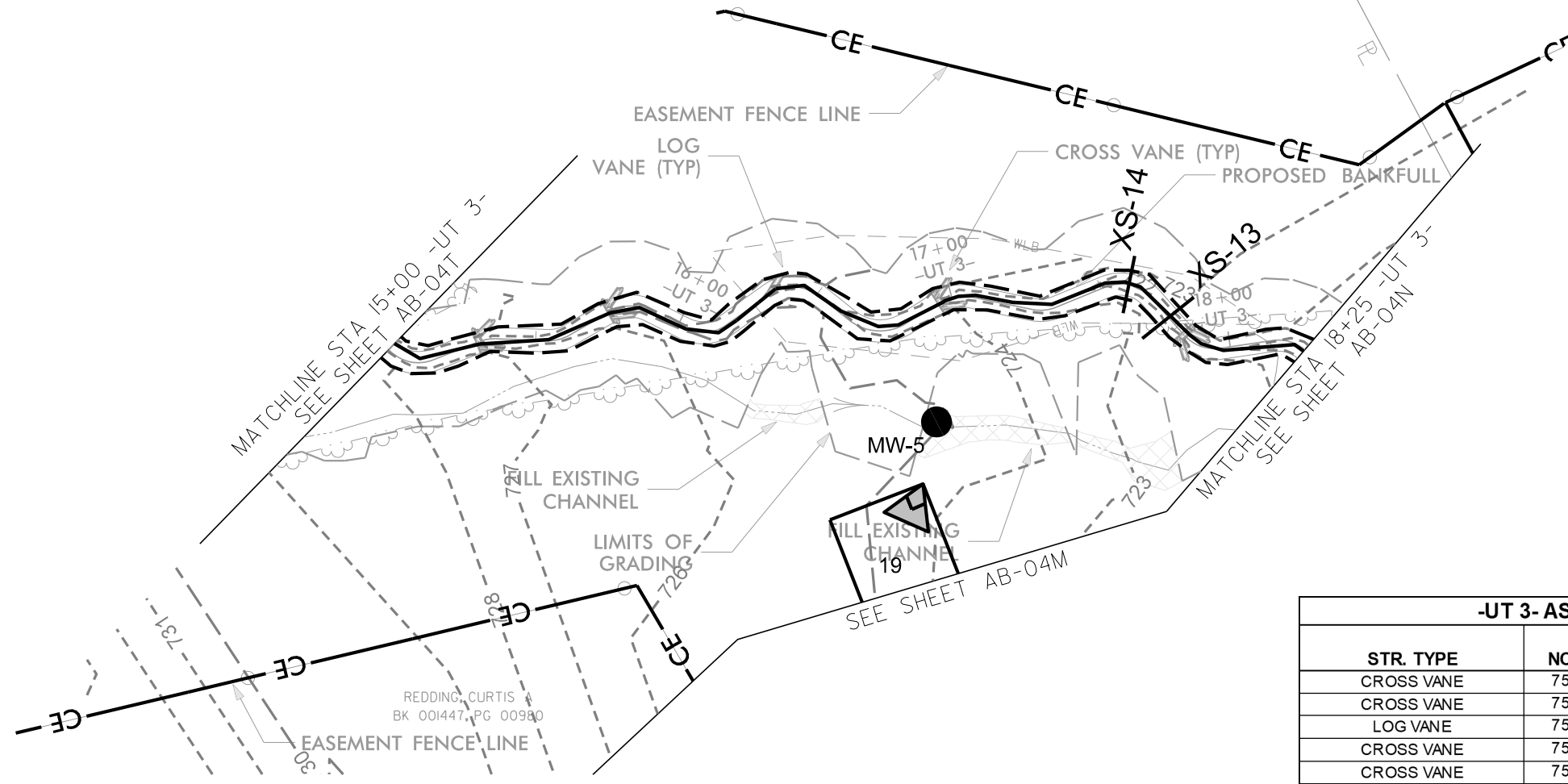
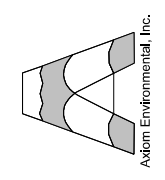
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Josh Dalton
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7/26/2022

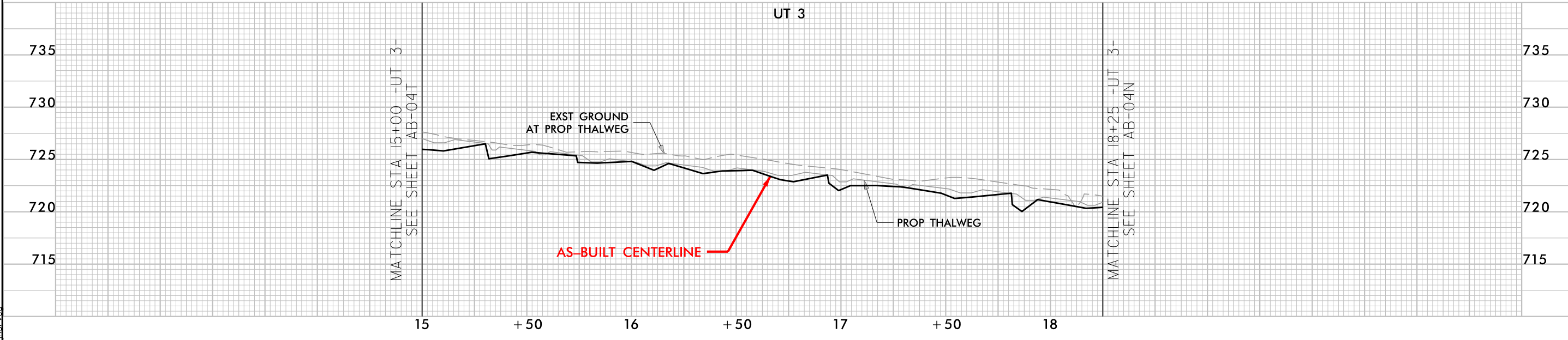
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| -UT 3- AS-BUILT STRUCTURE LOCATIONS | | | | |
|-------------------------------------|------------|--------------|----------------|---------------------|
| STR. TYPE | NORTHING | EASTING | Prop Elevation | AB Survey Elevation |
| CROSS VANE | 759,481.31 | 1,736,759.89 | 726.50 | 726.50 |
| CROSS VANE | 759,439.19 | 1,736,748.95 | 725.37 | 725.35 |
| LOG VANE | 759,391.08 | 1,736,730.12 | 724.25 | BUILT / NS |
| CROSS VANE | 759,343.33 | 1,736,702.44 | 723.46 | 723.51 |
| CROSS VANE | 759,278.39 | 1,736,656.57 | 721.70 | 721.78 |



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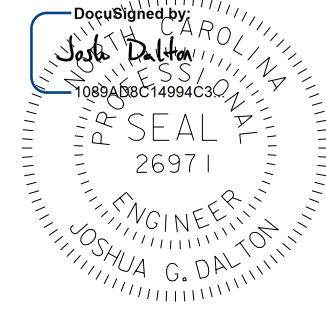
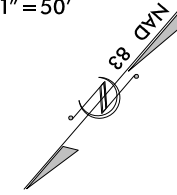
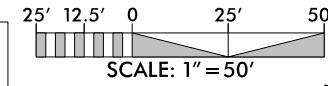
BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04U

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Bull Chute_PSH-AB-04U.dgn
jgd

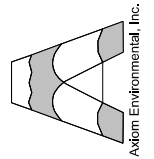
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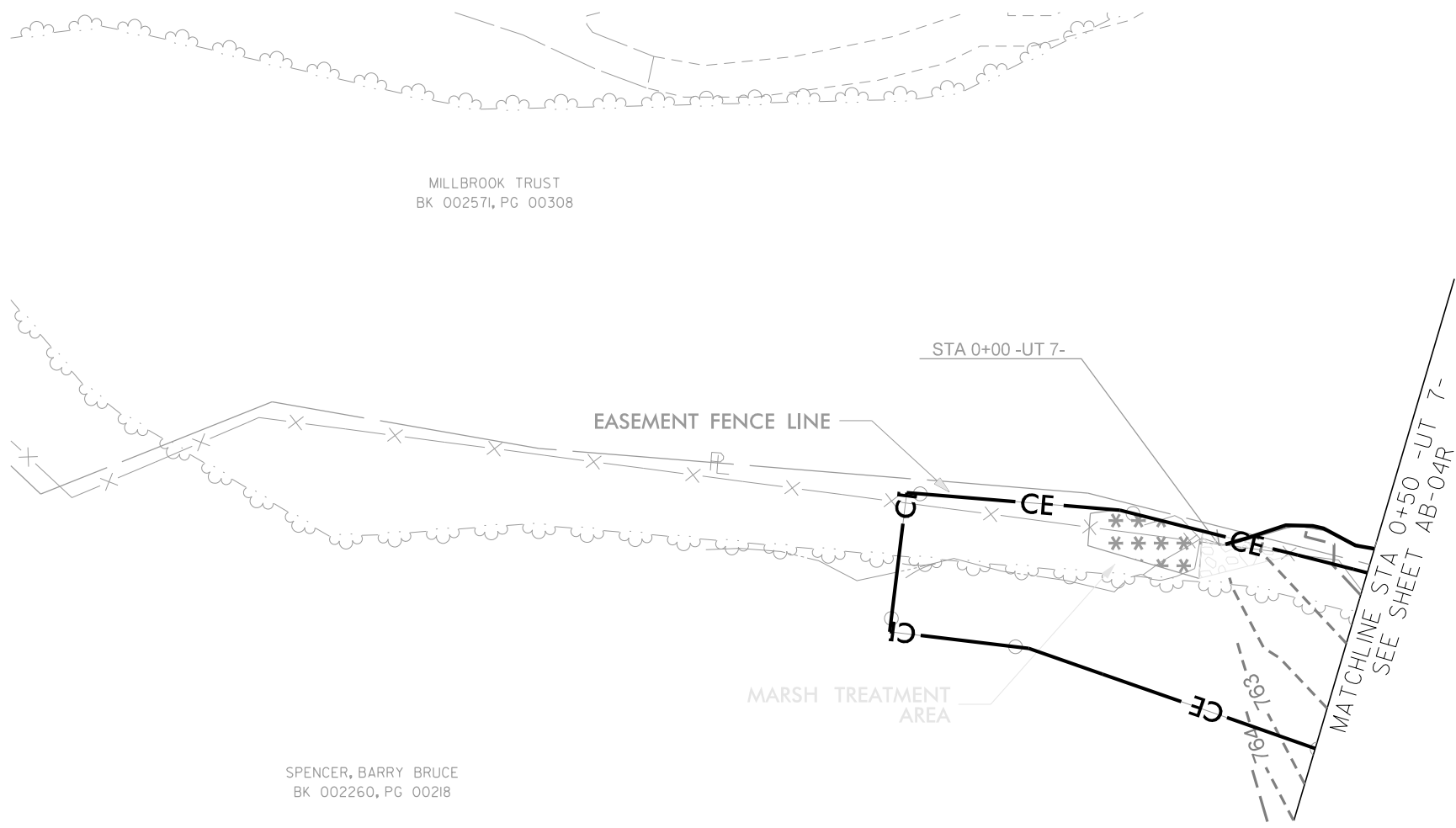
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BULL CHUTE
 RANDOLPH COUNTY, NC
AS-BUILT STRUCTURES

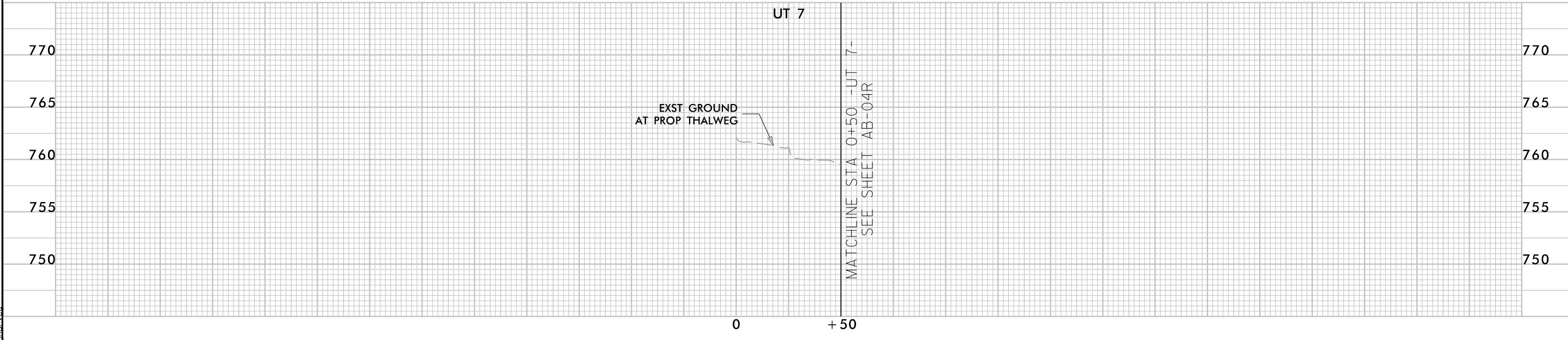
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AB-04V



MILLBROOK TRUST
 BK 002571, PG 00308

SPENCER, BARRY BRUCE
 BK 002260, PG 00218



7/26/2022
 Bull Chute_PSH-AB-04V.dgn
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DESIGN PLANTING TABLE

| Vegetation Association | Piedmont/Low Mountain Alluvial Forest* | | Dry-Mesic Oak-Hickory Forest* | | Stream-side Assemblage** | | TOTAL |
|---|--|------------|-------------------------------|------------|--------------------------|------------|--------------|
| | Area (acres) | 16.3 | 6.2 | 6.0 | 28.5 | | |
| Species | # planted* | % of total | # planted* | % of total | # planted** | % of total | # planted |
| Tag alder (<i>Alnus serrulata</i>) | -- | -- | -- | -- | 2448 | 15 | 2448 |
| River birch (<i>Betula nigra</i>) | 1663 | 15 | -- | -- | 2448 | 15 | 4111 |
| Ironwood (<i>Carpinus caroliniana</i>) | | | 843 | 20 | | | 843 |
| Red bud (<i>Cercis canadensis</i>) | -- | -- | 632 | 15 | -- | -- | 632 |
| Silky dogwood (<i>Cornus amomum</i>) | 1663 | 15 | -- | -- | 3264 | 20 | 4927 |
| Persimmon (<i>Diospyros virginiana</i>) | -- | -- | 422 | 10 | -- | -- | 422 |
| Mockemut hickory (<i>Carya tomentosa</i>) | -- | -- | 211 | 5 | -- | -- | 211 |
| Tulip poplar (<i>Liriodendron tulipifera</i>) | 1663 | 15 | -- | -- | -- | -- | 1663 |
| Sycamore (<i>Platanus occidentalis</i>) | 2217 | 20 | -- | -- | 3264 | 20 | 5481 |
| Black gum (<i>Nyssa sylvatica</i>) | -- | -- | 632 | 15 | -- | -- | 632 |
| Water oak (<i>Quercus nigra</i>) | 2217 | 20 | 843 | 20 | 1632 | 10 | 4692 |
| Willow oak (<i>Quercus phellos</i>) | 1663 | 15 | 632 | 15 | 1632 | 10 | 3927 |
| Black willow (<i>Salix nigra</i>) | -- | -- | -- | -- | 1632 | 10 | 1632 |
| TOTAL | 11084 | 100 | 4216 | 100 | 16320 | 100 | 31620 |
| * Planted at a density of 680 stems/acre. | | | | | | | |
| ** Planted at a density of 2720 stems/acre. | | | | | | | |

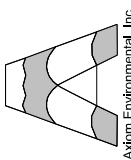
AS-BUILT PLANTING TABLE

Table 6A. Planted Bare Root Woody Vegetation
Bull Chute Stream and Riparian Wetland Mitigation Site

| Species | Total |
|--------------------------------|---------------|
| Acres | 28.5 |
| <i>Alnus serrulata</i> | 2,500 |
| <i>Betula nigra</i> | 4,000 |
| <i>Cercis canadensis</i> | 600 |
| <i>Carya tomentosa</i> | 200 |
| <i>Cornus amomum</i> | 5,000 |
| <i>Diospyros virginiana</i> | 420 |
| <i>Liriodendron tulipifera</i> | 1,700 |
| <i>Nyssa sylvatica</i> | 600 |
| <i>Platanus occidentalis</i> | 5,500 |
| <i>Quercus nigra</i> | 5,500 |
| <i>Quercus phellos</i> | 4,000 |
| <i>Salix nigra</i> | 1,600 |
| TOTALS | 31,620 |
| Average Stems/Acre | 1,110 |

Table 6B. Permanent Seed Mix
Bull Chute Stream and Riparian Wetland Mitigation Site

| Species | Percent of Total Mix |
|---|----------------------|
| Redtop (<i>Agrostis gigantea</i>) | 10% |
| VA Wild Rye (<i>Elymus virginicus</i>) | 15% |
| Switchgrass (<i>Panicum virgatum</i>) | 15% |
| Eastern Gammagrass (<i>Tripsacum dactyloides</i>) | 5% |
| PA Smartweed (<i>Polygonum pennsylvanicum</i>) | 5% |
| Little Bluestem (<i>Schizachyrium scoparium</i>) | 5% |
| Soft Rush (<i>Juncus effusus</i>) | 5% |
| Bur Marigold (<i>Bidens cernua</i>) | 10% |
| Lance-leaved Tickseed (<i>Coreopsis lanceolata</i>) | 10% |
| Deertongue (<i>Dichanthelium clandestinum</i>) | 10% |
| Big Bluestem (<i>Andropogon gerardii</i>) | 5% |
| Indiangrass (<i>Sorghastrum nutans</i>) | 5% |
| TOTAL | 100% |



Axiom Environmental, Inc.

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BULL CHUTE
RANDOLPH COUNTY, NC
AS-BUILT PLANTING LIST

PROJECT # :
DRAWING NAME:
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

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