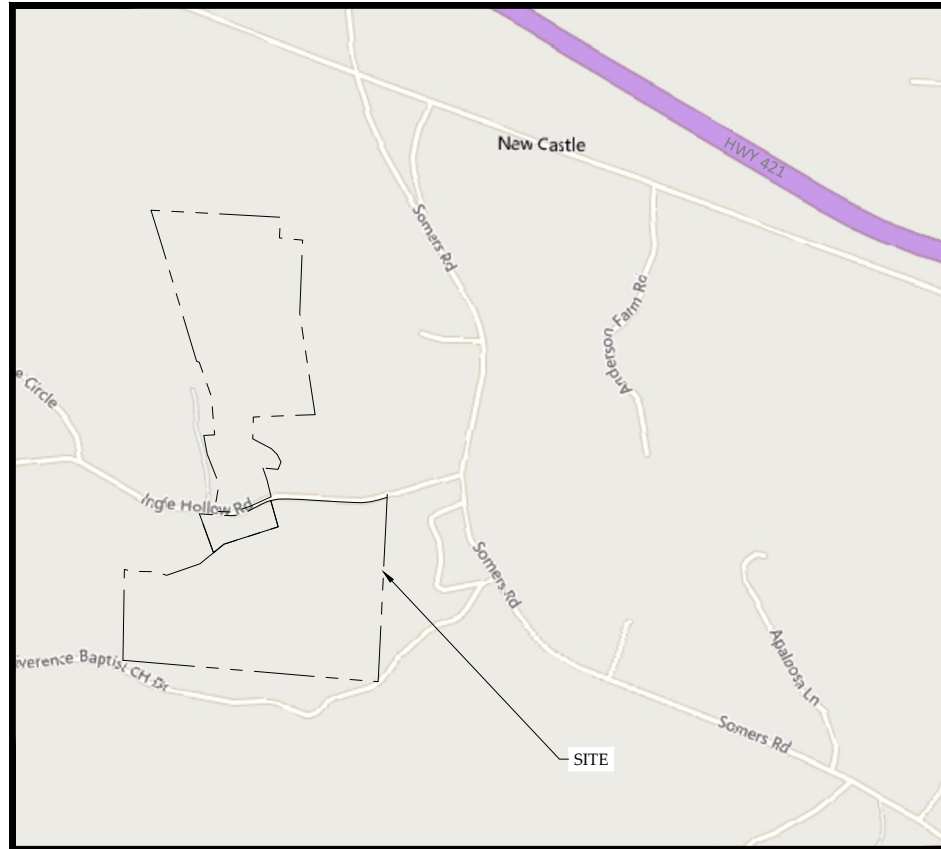


# Huntsman Stream Mitigation Site Record Drawing

Catawba County, North Carolina  
Yadkin River Basin 03040102

for  
NCDEQ

Division of Mitigation Services



Vicinity Map  
Not to Scale

Stream Origins		
Name	Northing	Easting
North Little Hunting Creek	875150	1428844
UT 1	877096	1429043
UT 2	874128	1429824
Rifle Tributary	874443	1430197
Trapper Tributary	874452	1430094
Old Bus Branch	874715	1430204
Barn Branch	874755	1423951

RECORD DRAWINGS  
ISSUED AUGUST 2, 2022

## Sheet Index

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Stream Plan and Profile	
North Little Hunting Creek	1.1.1-1.1.5
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UT2	1.3.1-1.3.4
Rifle Tributary and Trapper Tributary	1.4.1
Old Bus Branch	1.5.1
Barn Branch	1.6.1
Planting Plan	2.0-2.4
Fencing Plan	3.0

## Project Directory

**Engineering:**  
Wildlands Engineering, Inc  
License No. F-0831  
1430 South Mint Street, Suite 104  
Charlotte, NC 28203  
Aaron Earley, PE  
704-332-7754

**Surveying:**  
Turner Land Surveying  
P.O. Box 148  
Swannanoa, NC 28778  
David S. Turner, PLS  
919-827-0745

**Owner:**  
Matthew Reid  
NCDEQ  
Division of Mitigation Services  
1652 Mail Service Center  
Raleigh, NC 27699  
828-231-7912

DMS ID No. 100123  
NCDEQ Contract No. 7891  
USACE Action ID No. SAW-2019-00836  
NC DWR No. 20190816



Revisions:


### Pre-Construction Features

- Pre-Construction Property Line
- Pre-Construction NCDOT Right of Way
- Pre-Construction Overhead Utility Line
- Pre-Construction Top of Bank
- Pre-Construction Overhead Utility Easement
- Pre-Construction Utility Pole
- Pre-Construction Fence
- Pre-Construction Storm Pipe
- Pre-Construction Building
- Pre-Construction Wetland
- Pre-Construction Farm Road
- Pre-Construction Rip Rap

### Design Features

- Design Alignment
- Design Bankfull
- Design Major Contour (5' Interval)
- Design Minor Contour
- Design Limits of Disturbance

### Design Structures

- Design Angled Log Drop
- Design Log J-hook
- Design Log Vane
- Design Rock Sill
- Design Rock J-hook

### Design Structures

- Design Various Constructed Riffles
- Design Rock Cascade with Pools
- Design Brush Toe
- Design Vegetated Soil Lift
- Design Rock Protection
- Design BMP with Rock Weir Outlet
- Design BMP - Rock Cascade with Pools
- Design Culvert Crossing
- Design Debris Removal
- Design Additional Grading

### Asbuilt Features

- Asbuilt Alignment
- Asbuilt Bankfull
- Recorded CE
- Recorded Internal Crossing
- Recorded Restrictive Covenant
- Asbuilt Major Contour (5' Interval)
- Asbuilt Minor Contour
- Asbuilt Culvert
- Asbuilt Fence

### Asbuilt Structures

- Asbuilt Angled Log Drop
- Asbuilt Log J-hook
- Asbuilt Rock Sill
- Asbuilt Boulder Toe

### Monitoring Structures

- Photo Point
- Permanent Vegetation Plot
- Barotroll
- Crest Gage
- Monitoring Cross Section

### Asbuilt Structures

- Asbuilt Various Constructed Riffles
- Asbuilt Rock Cascade with Pools
- Asbuilt Brush Toe
- Asbuilt Vegetated Soil Lift
- Asbuilt Rock Protection
- Asbuilt Gravel Road

Topographic Survey completed by Turner Mapping and Surveying in March 2020. Parcel Boundary survey completed by Turner Mapping and Surveying in March 2020. Asbuilt survey completed by Turner Mapping and Surveying in May 2022.

Types of Constructed Riffles used at certain locations may be modified at Engineer's Discretion.

**PROJECT NOTES:**  
 1. DEVIATIONS FROM THE DESIGN WILL BE SHOWN IN RED

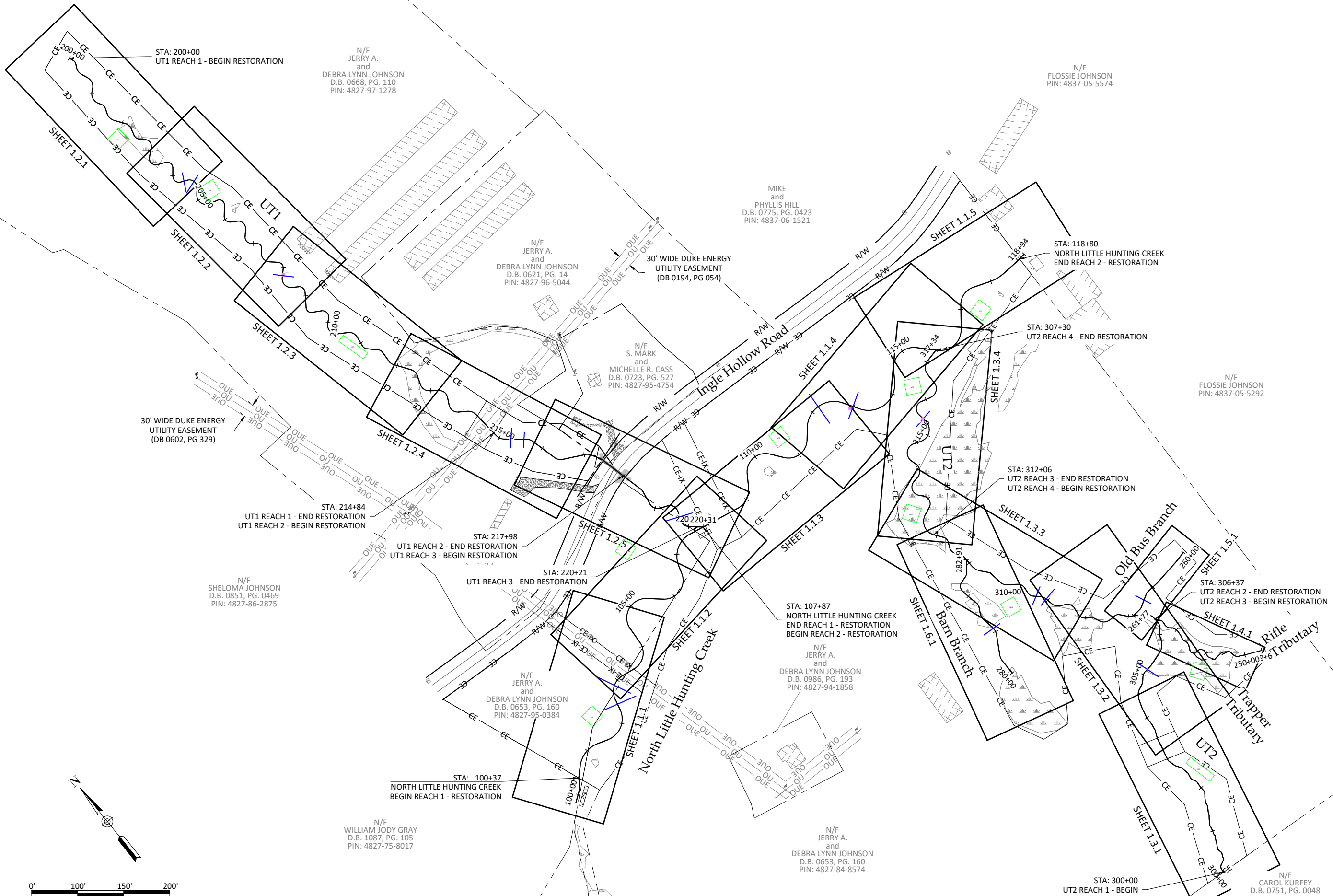


**Huntsman Stream Mitigation Site Record Drawing**  
**Wilkes County, North Carolina**

General Notes and Symbols

Revisions:

Date: AUGUST 2, 2022  
 Job Number: 005-02183  
 Project Engineer: SRK  
 Drawn By: JCK  
 Checked By: EGR



**Huntsman Stream Mitigation Site Record Drawing**  
**Wilkes County, North Carolina**  
Project Overview

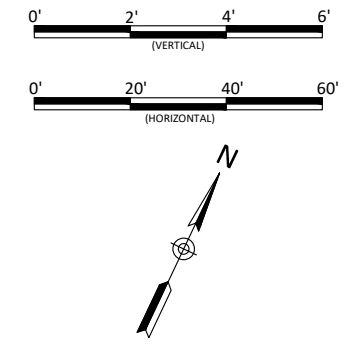
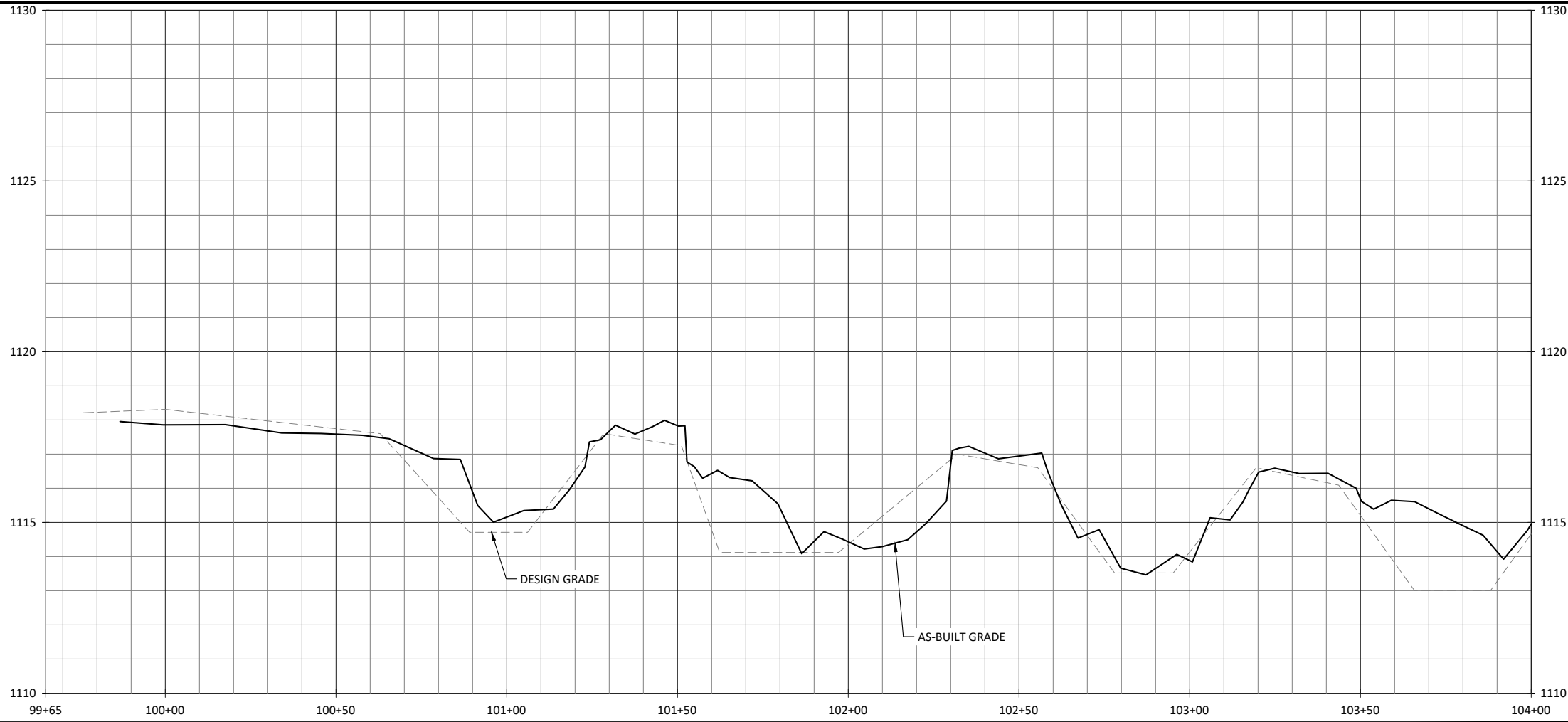
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Job Number:	005-02183
Project Engineer:	SRK
Drawn By:	JCK
Checked By:	EGK

**0.3**



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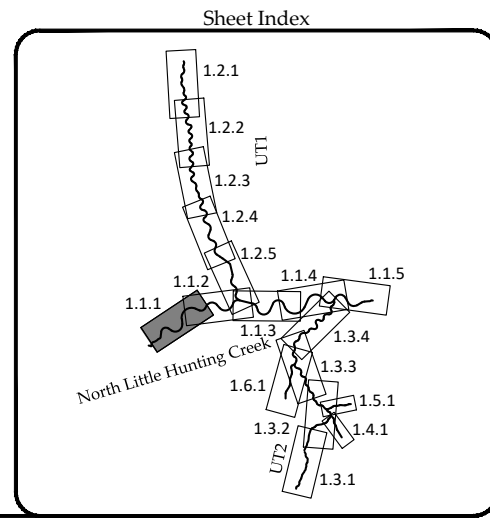
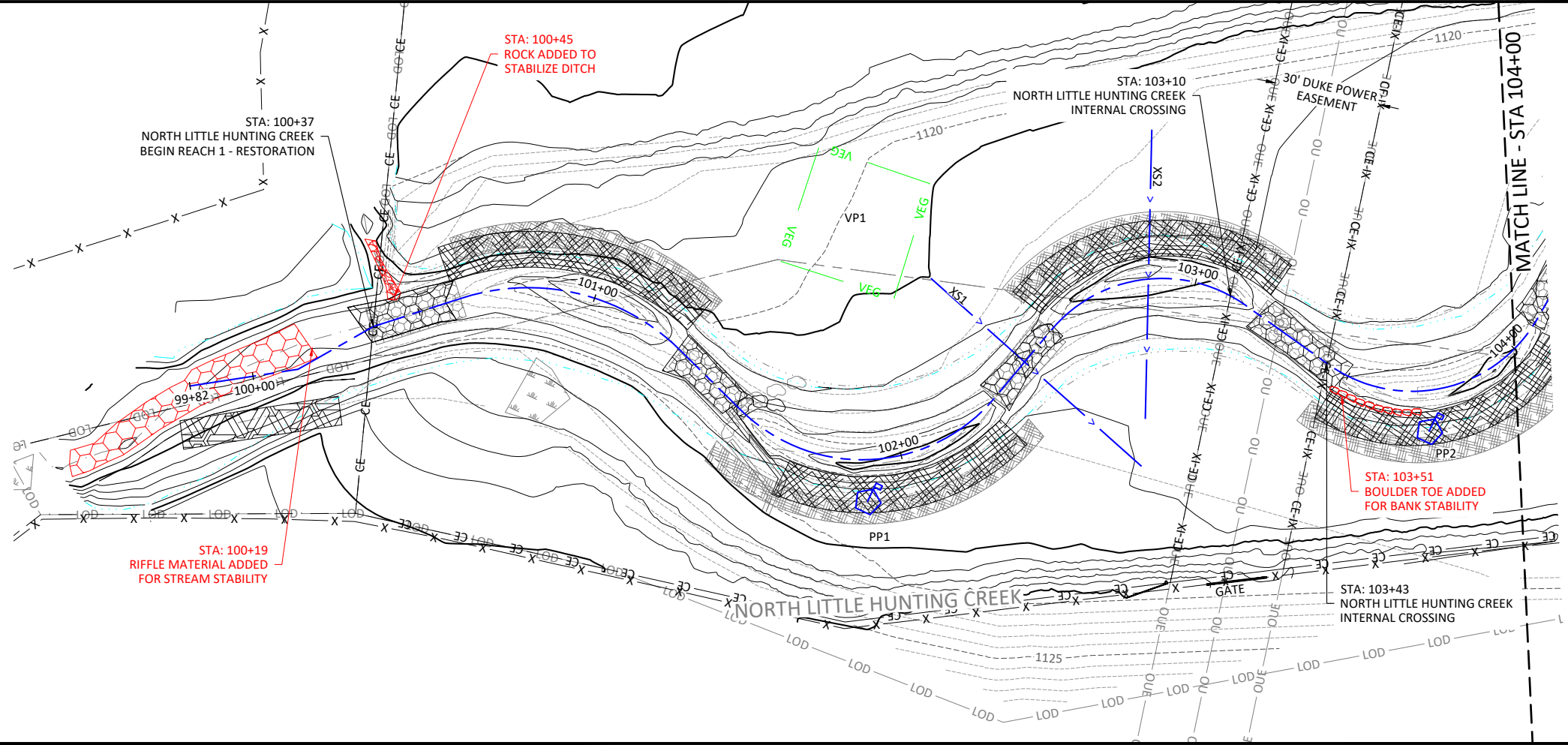


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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
North Little Hunting Creek  
Stream Plan and Profile

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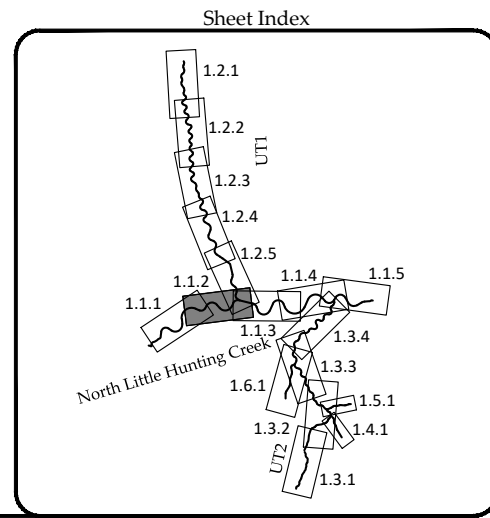
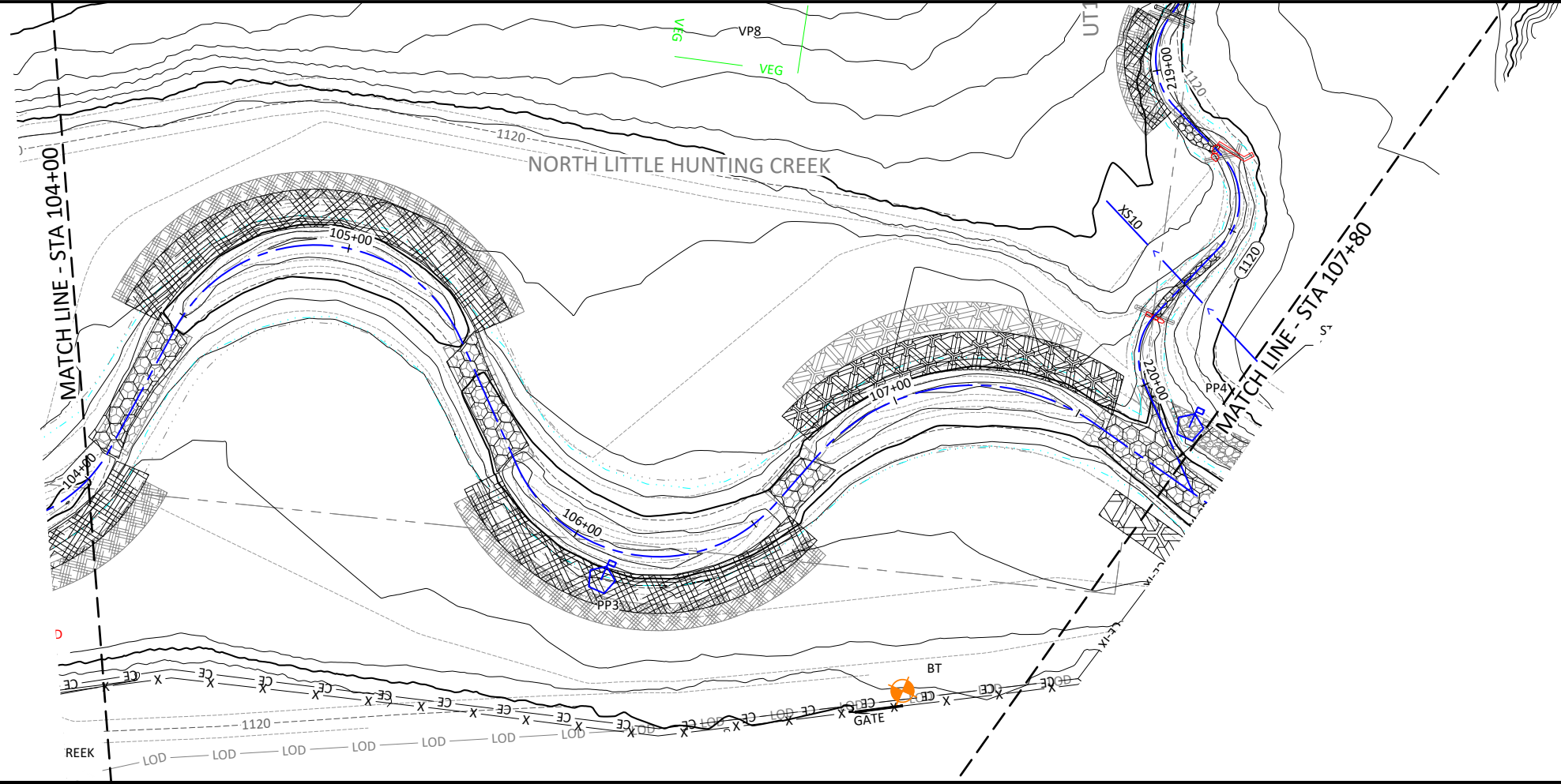
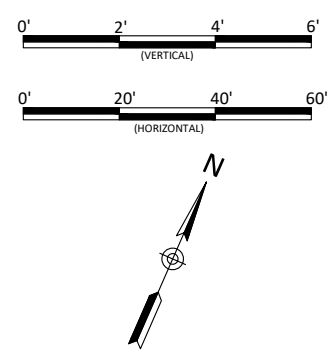
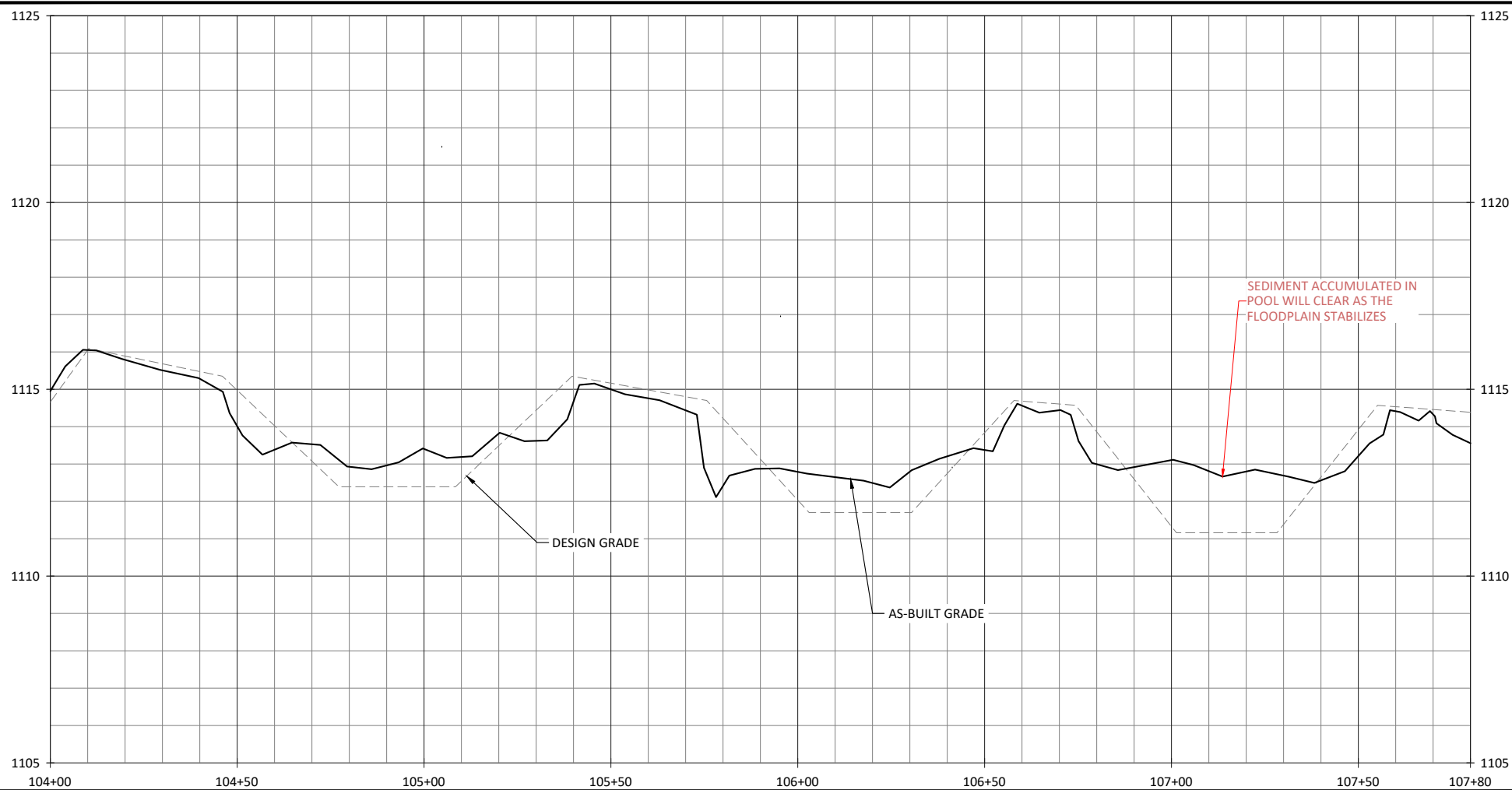
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Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

1.1.1

Sheet





Huntsman Stream Mitigation Site Record Drawing  
 Wilkes County, North Carolina  
 North Little Hunting Creek  
 Stream Plan and Profile

Revisions:


Date: AUGUST 2, 2022  
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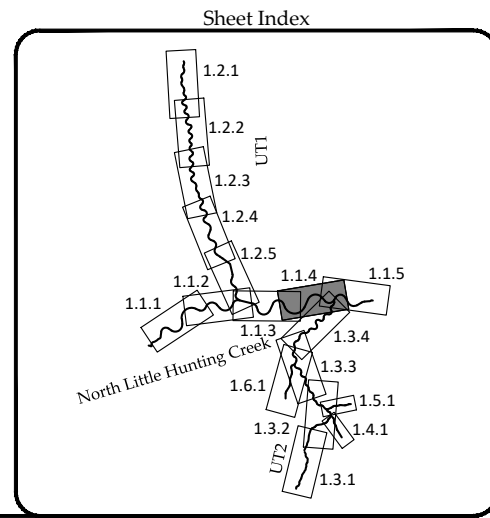
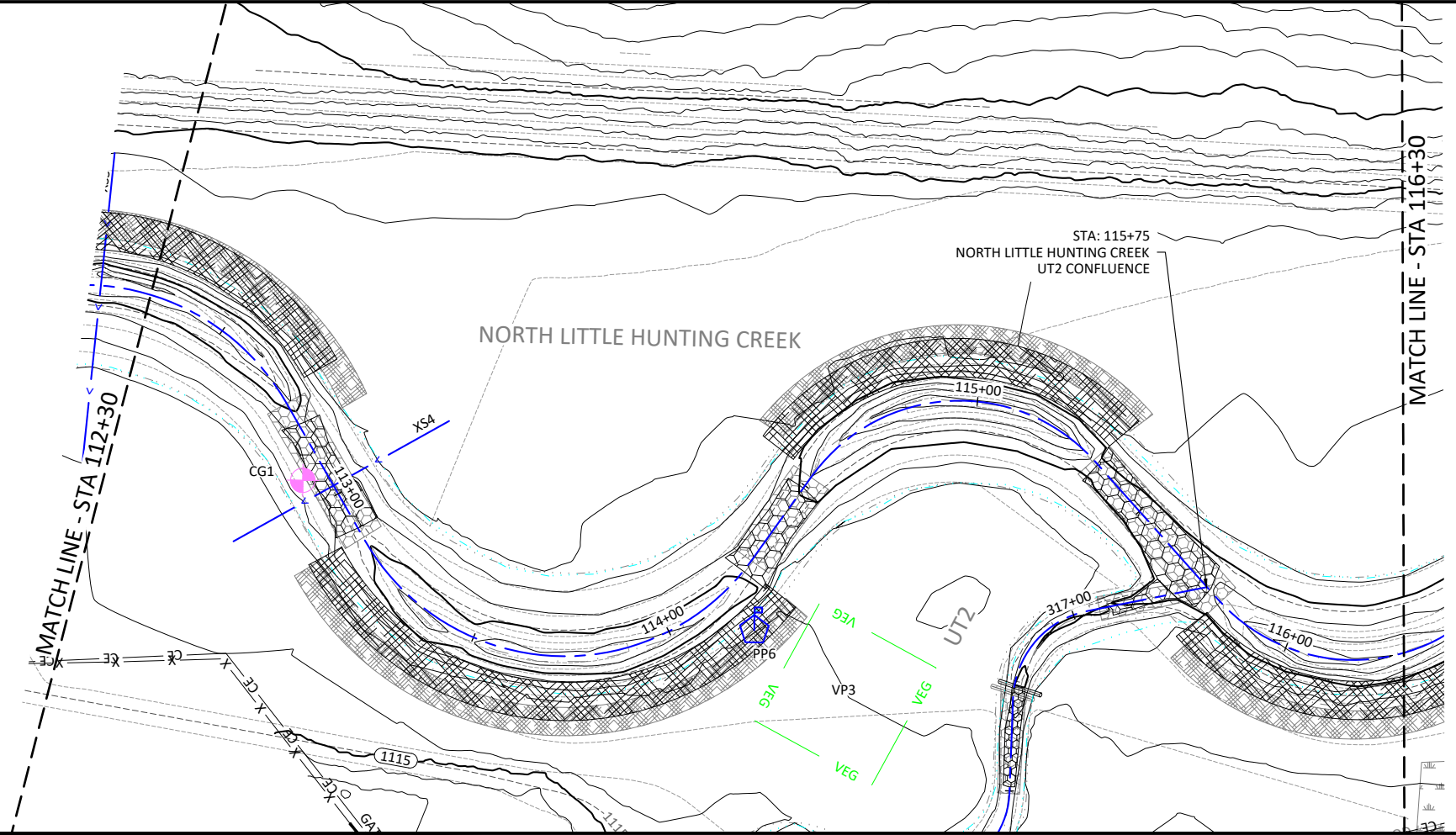
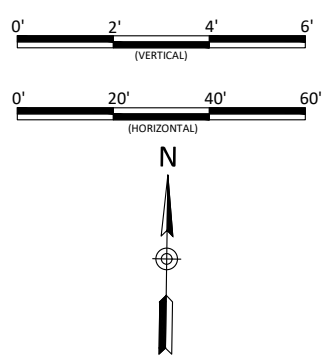
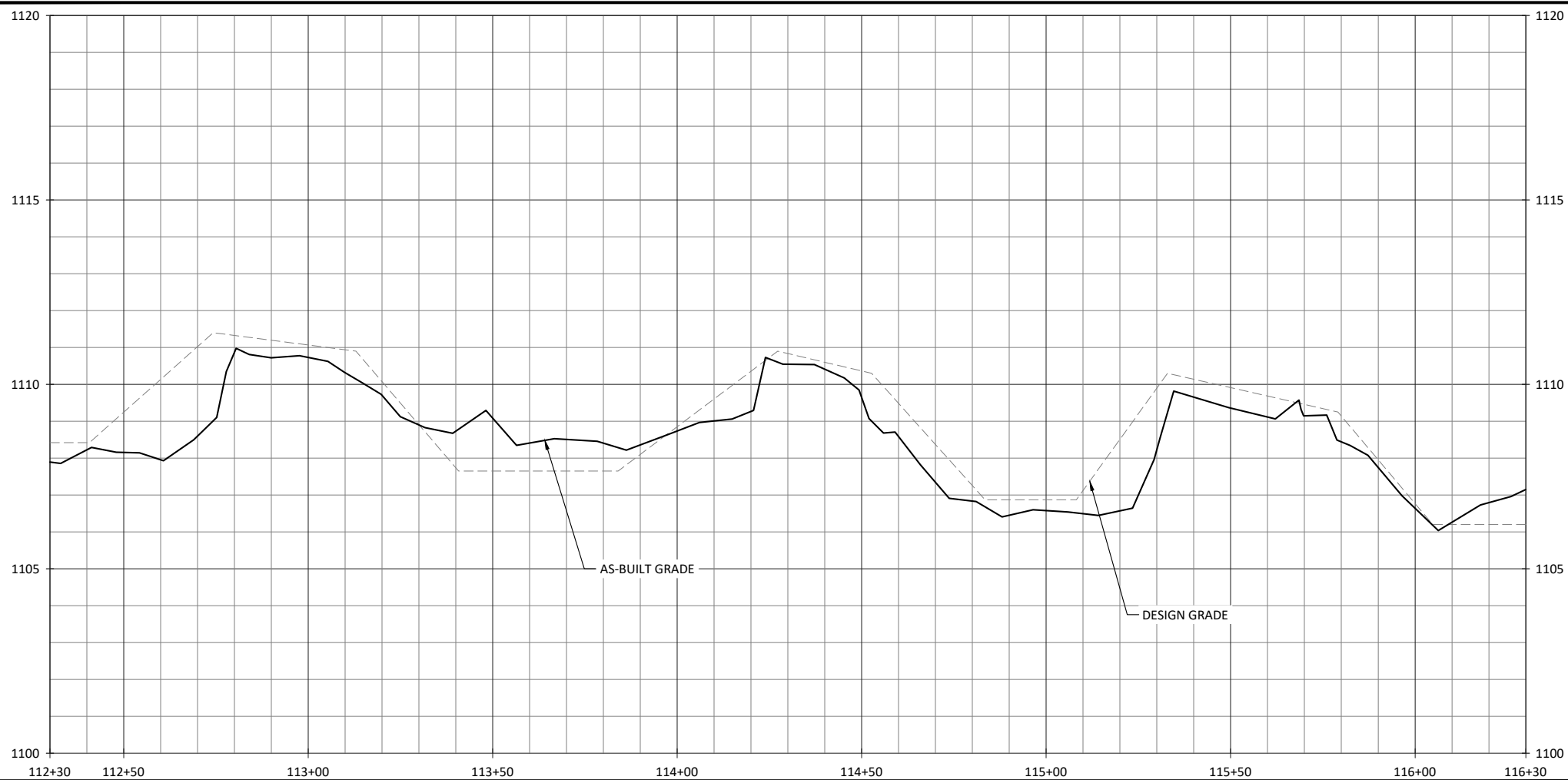
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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
North Little Hunting Creek  
Stream Plan and Profile

Revisions:


Date: AUGUST 2, 2022  
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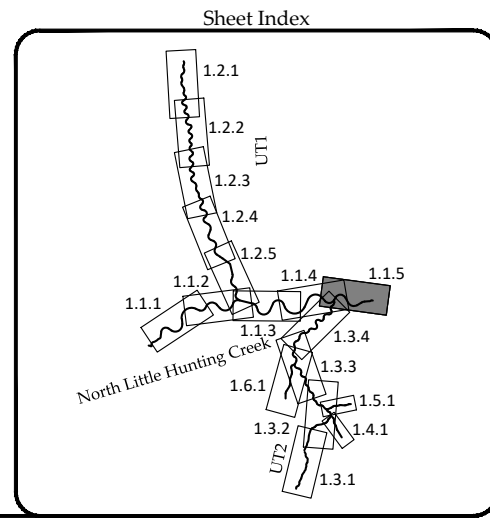
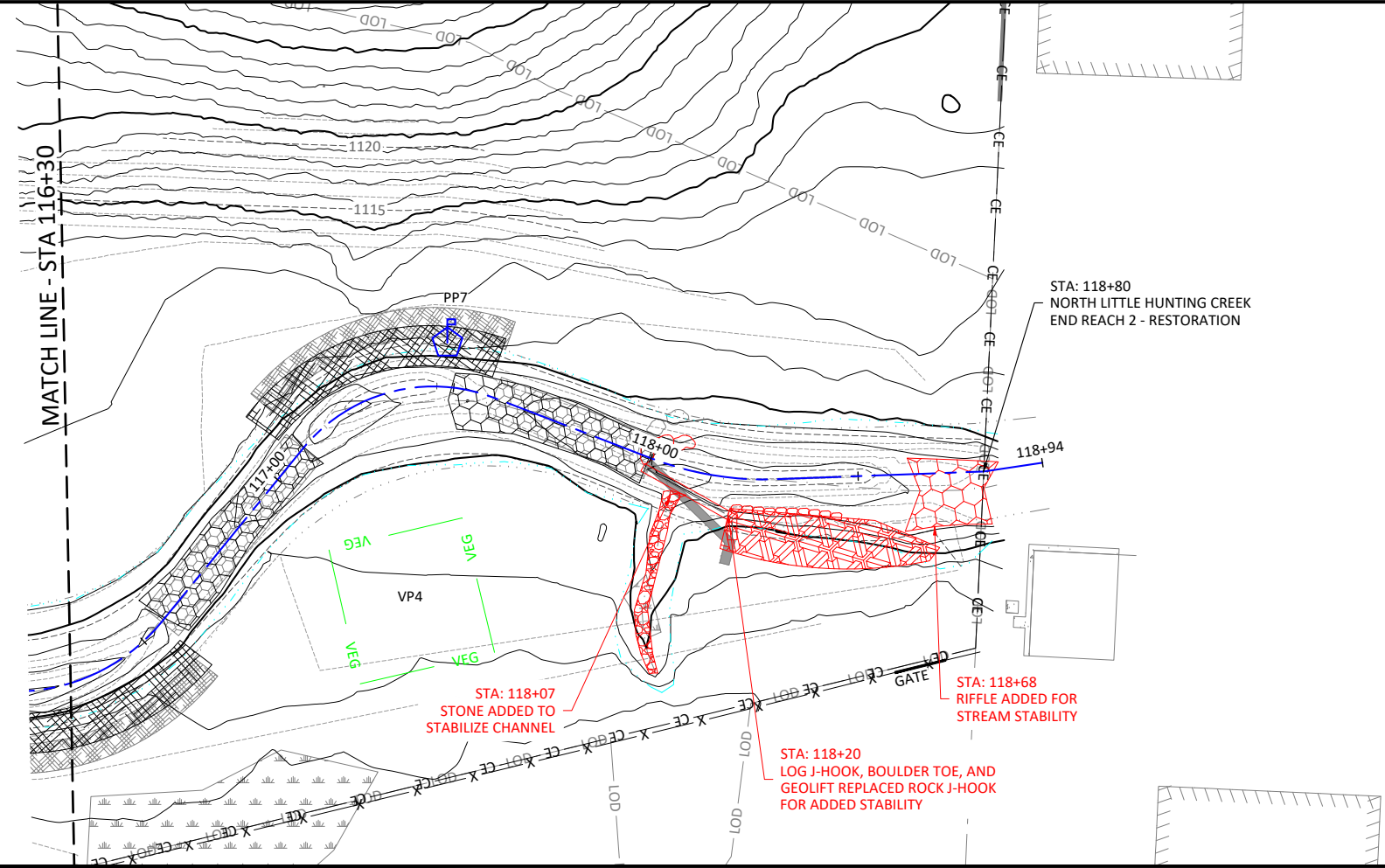
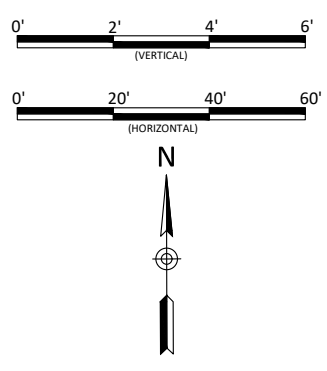
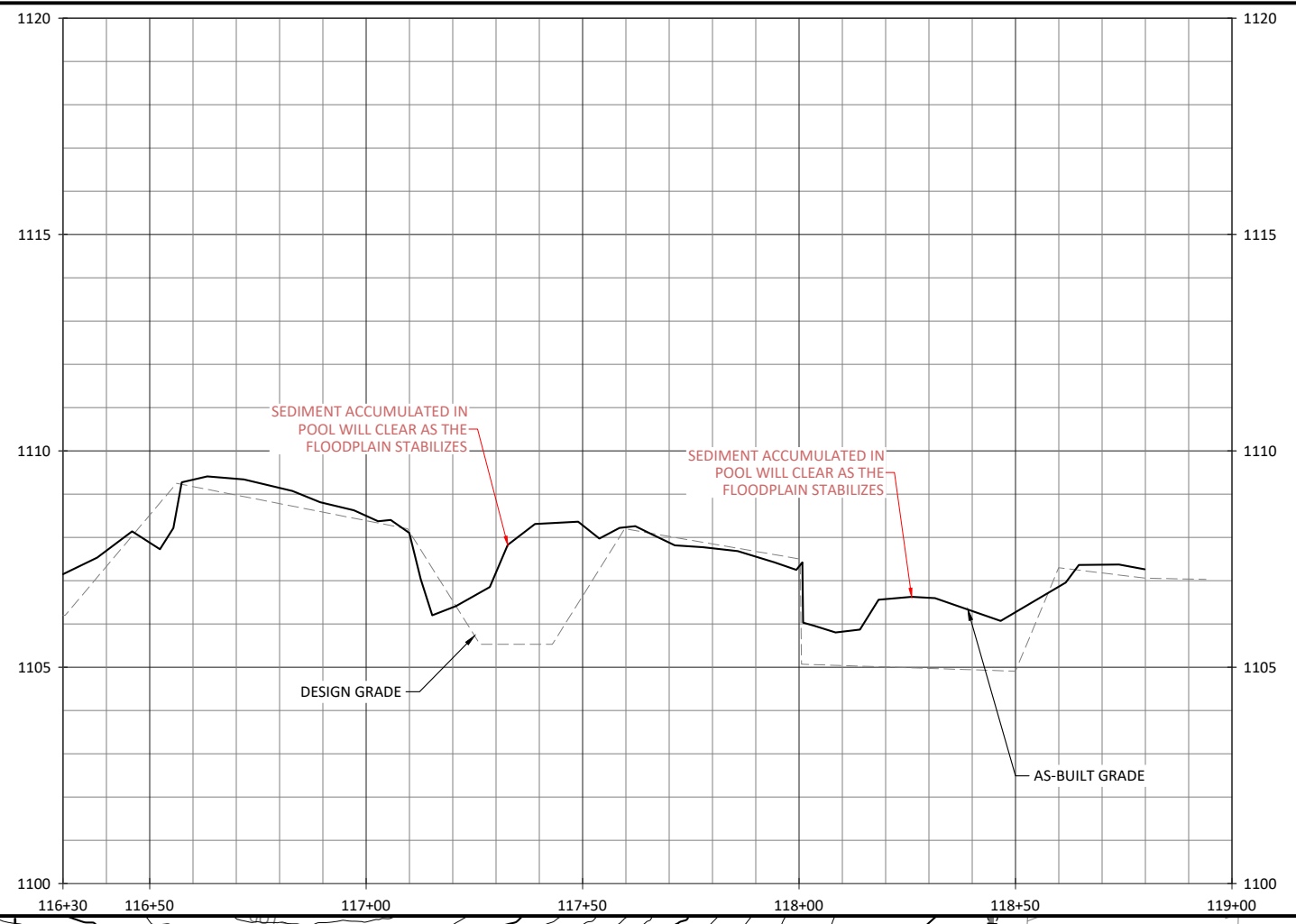
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Huntsman Stream Mitigation Site Record Drawing  
 Wilkes County, North Carolina  
 North Little Hunting Creek  
 Stream Plan and Profile

Revisions:

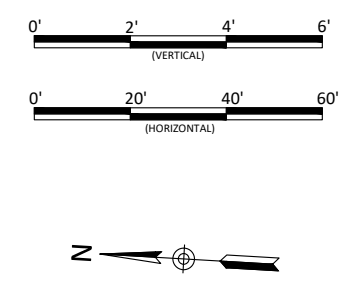
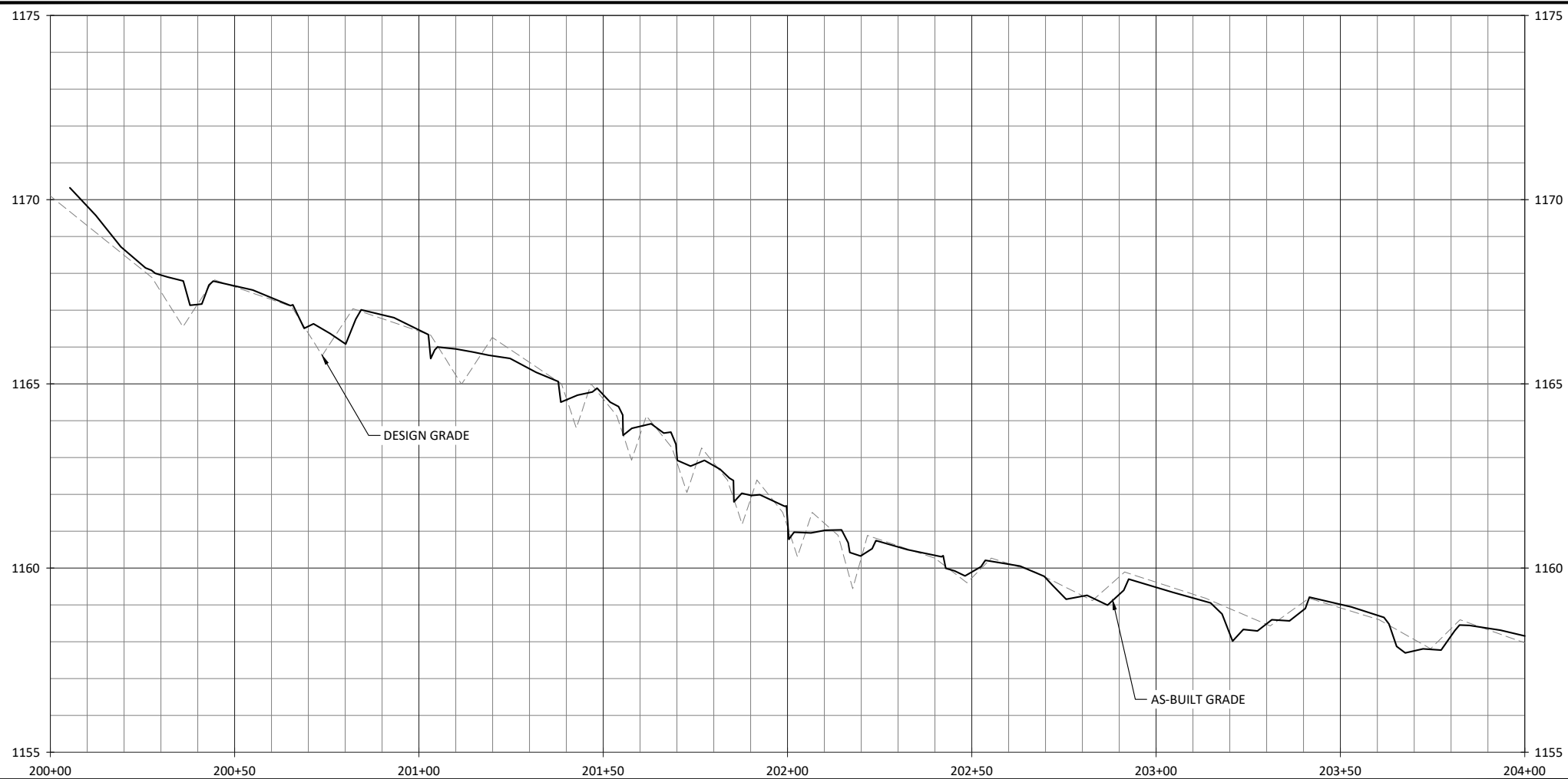

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 Job Number: 005-02183  
 Project Engineer: SRK  
 Drawn By: JCK  
 Checked By: EGR

1.1.5

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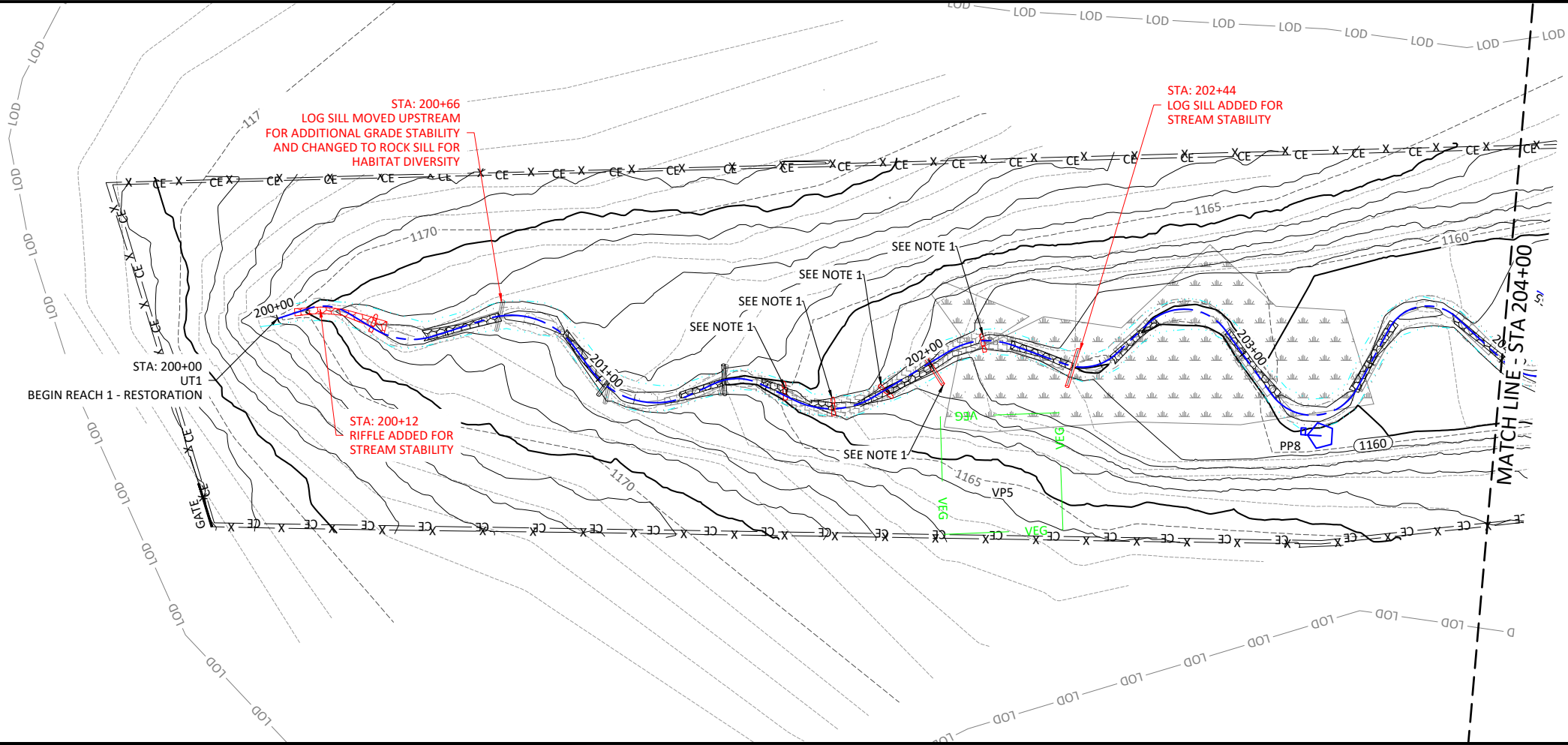
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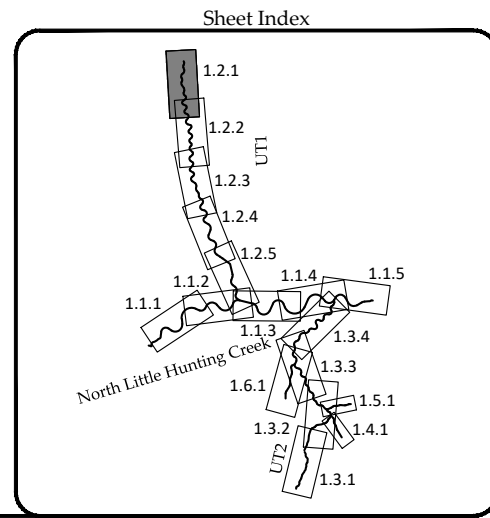
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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
UT1  
Stream Plan and Profile



- NOTES:**
- SURVEYED SILLS ARE PART OF THE ORIGINALLY DESIGNED ROCK CASCADE WITH POOLS AT STA: 201+54, STA: 201+69, STA: 201+85, AND STA: 202+00



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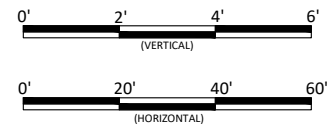
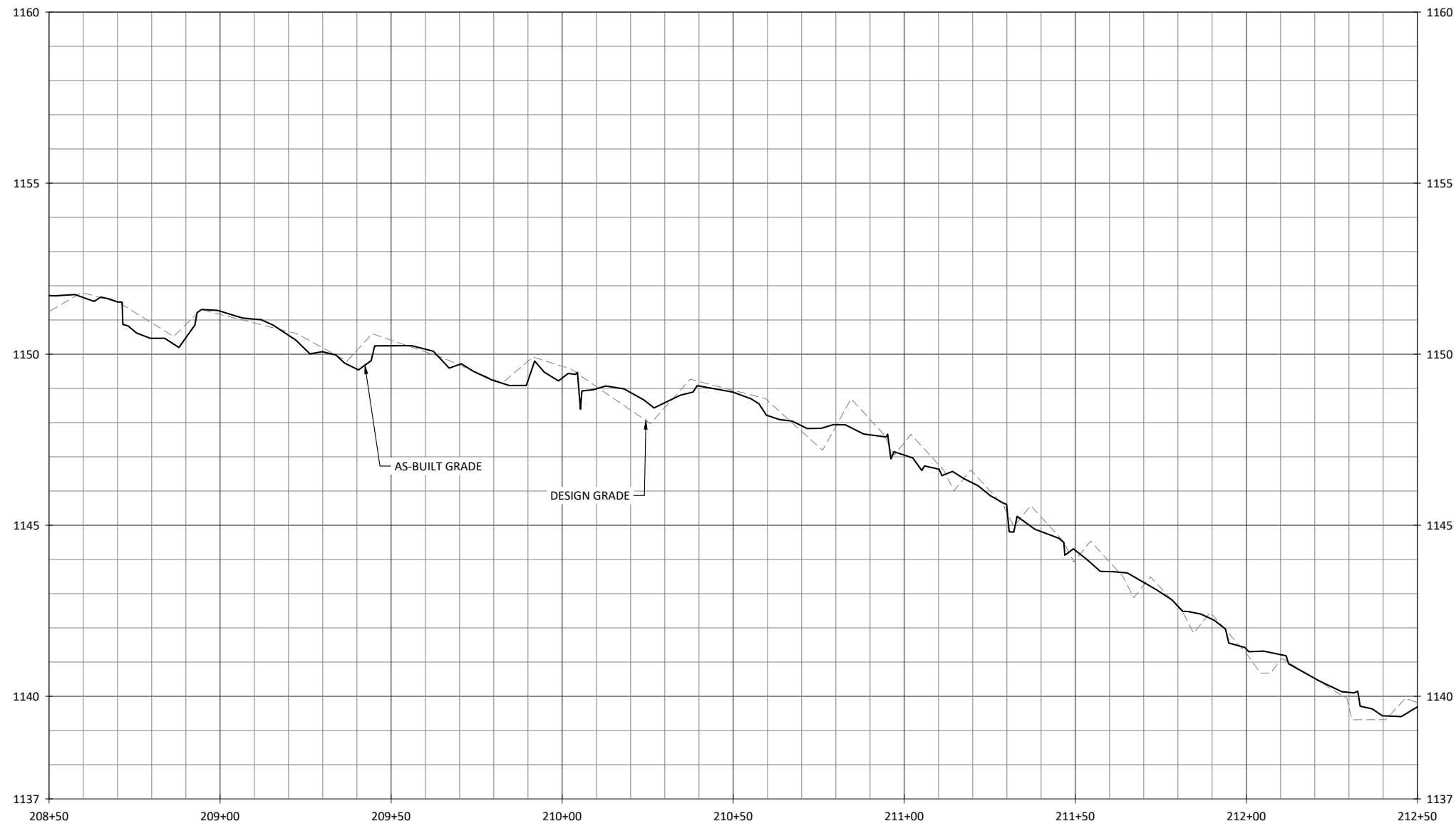

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Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

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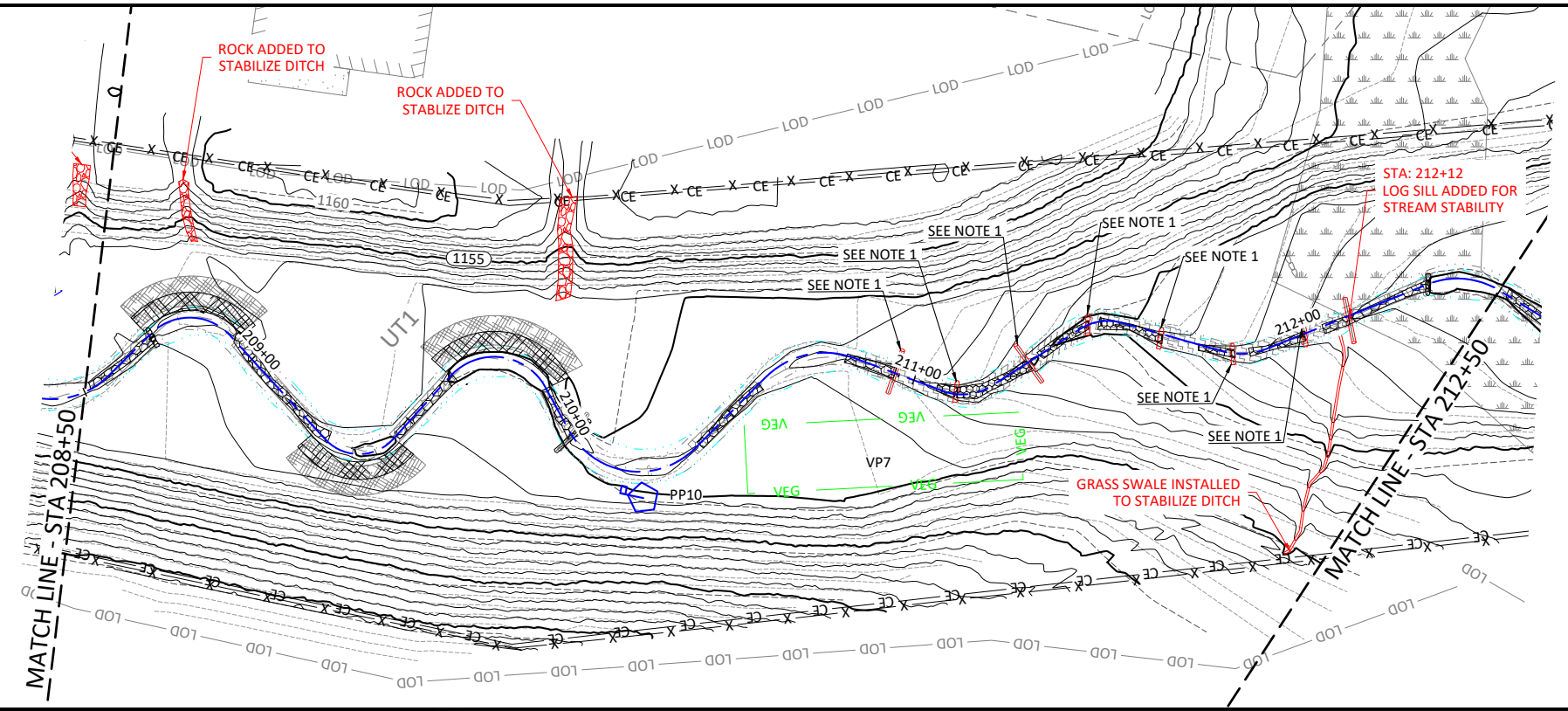
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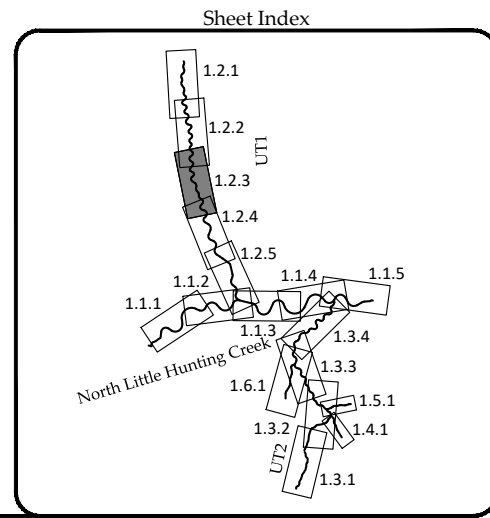




Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
UT1  
Stream Plan and Profile



- NOTES:  
1. SURVEYED SILLS ARE PART OF THE ORIGINALLY DESIGNED ROCK CASCADE WITH POOLS AT STA: 210+94, STA: 211+11, STA: 211+30, STA: 211+47, STA: 211+65, STA: 211+82, AND STA: 212+00

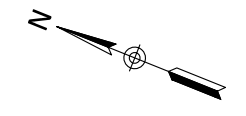
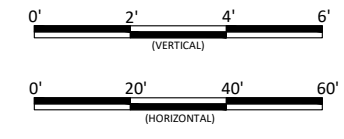
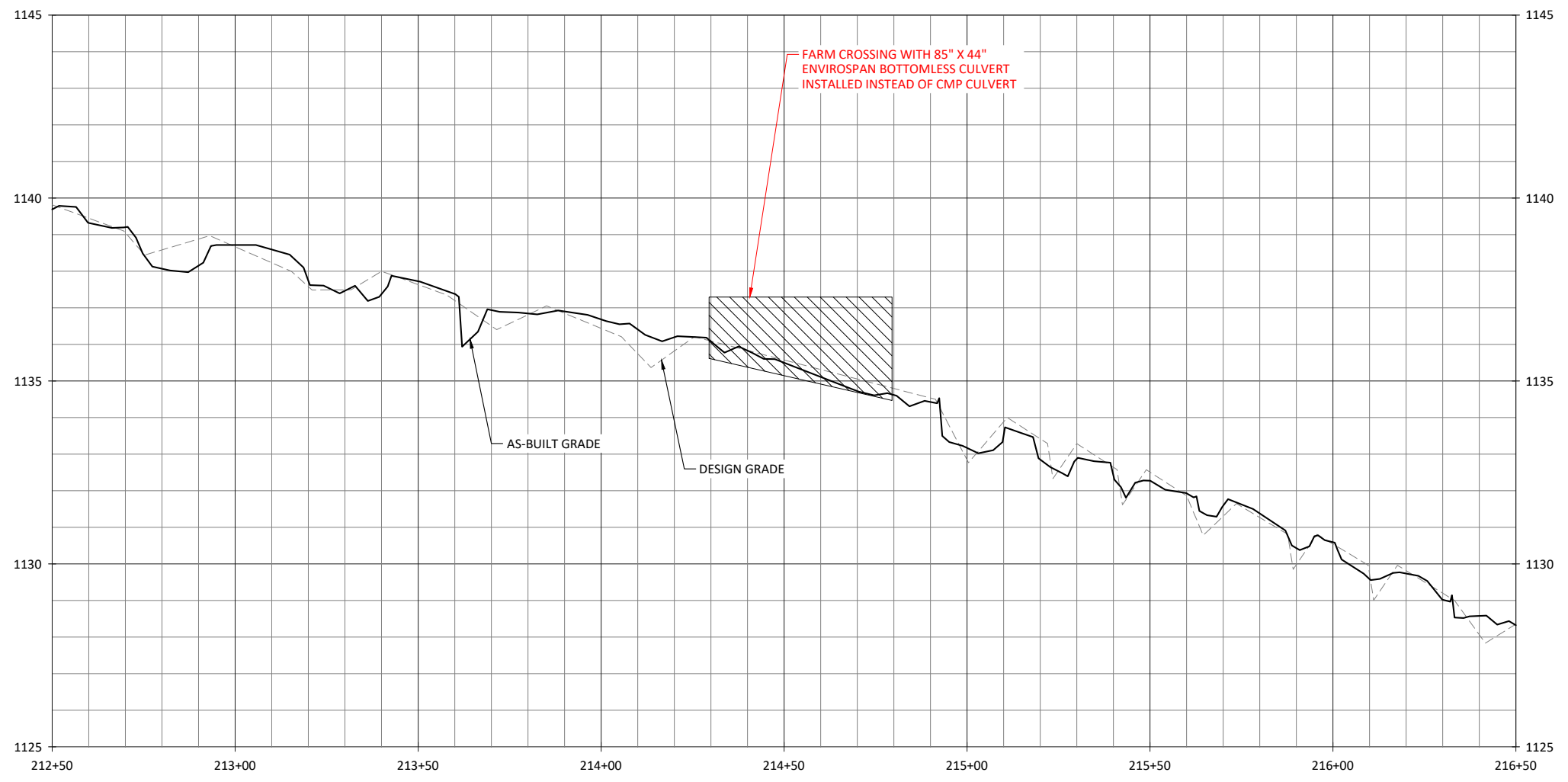


Revisions:


Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

**1.2.3**

August 2, 2022



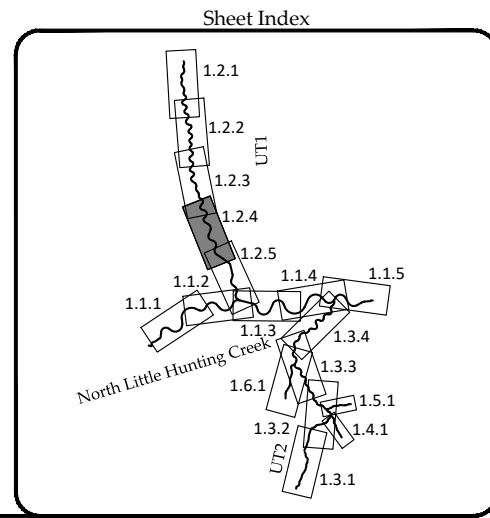
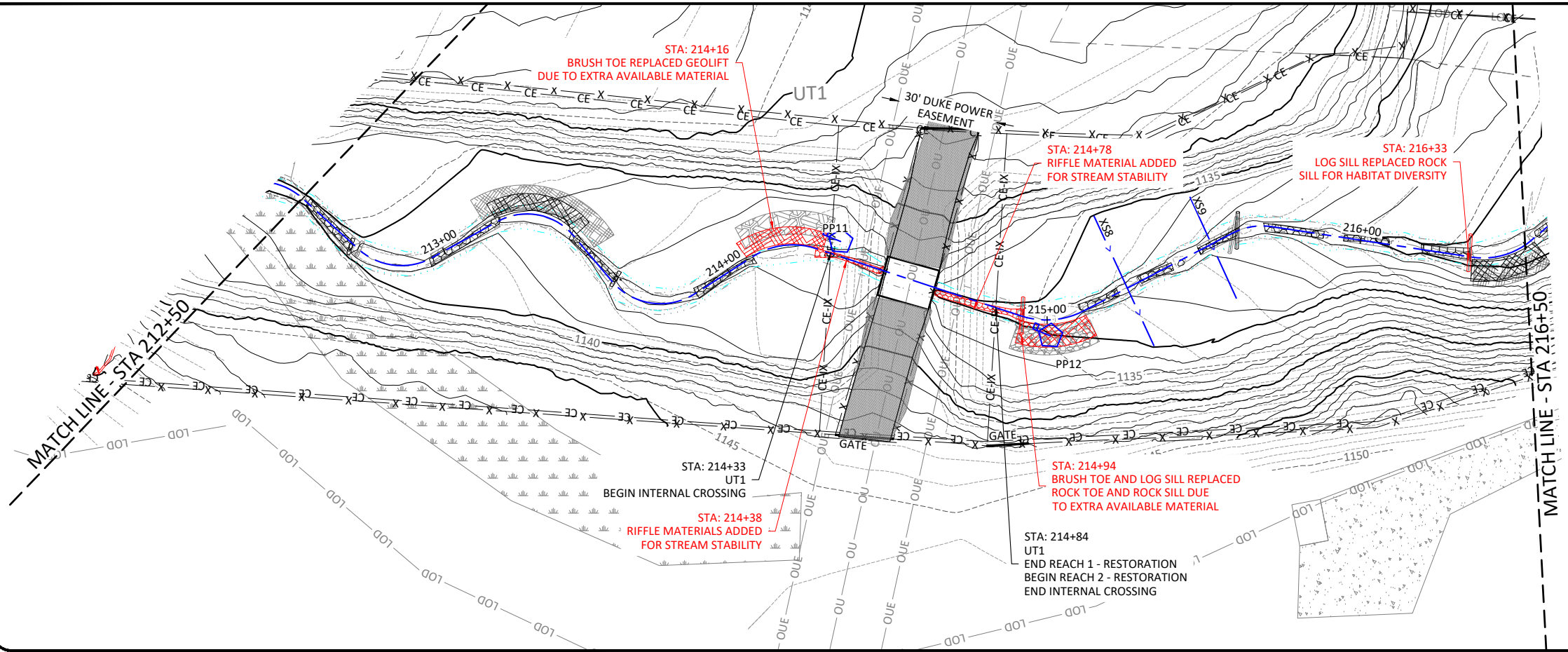
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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina

UT1  
Stream Plan and Profile

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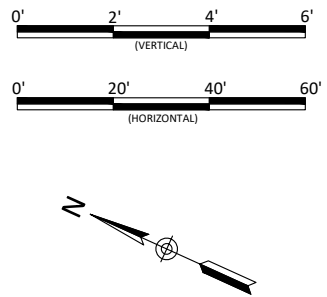
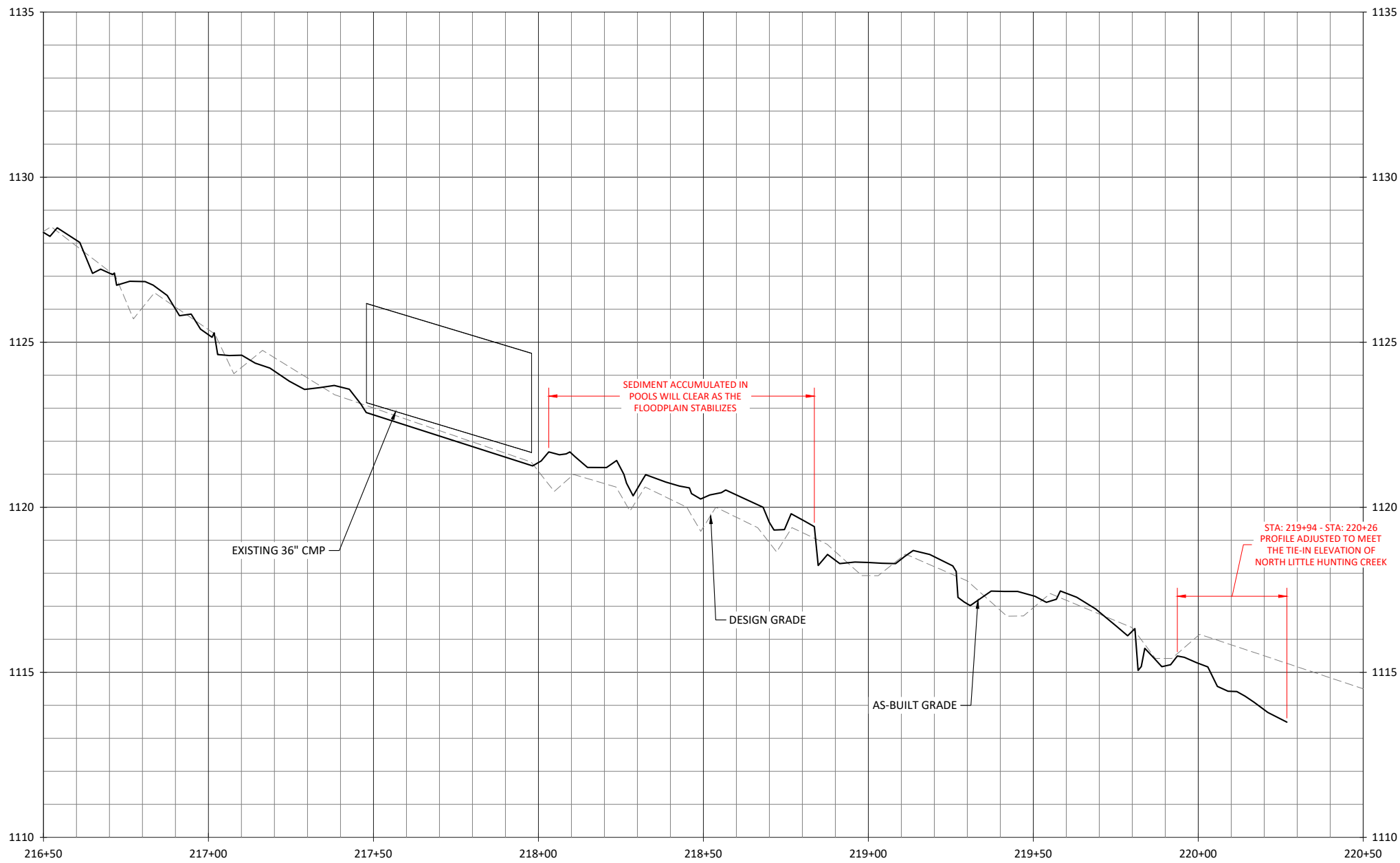


Revisions:


Date: AUGUST 2, 2022  
Job Number: 015-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

**1.2.4**  
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August 2, 2022

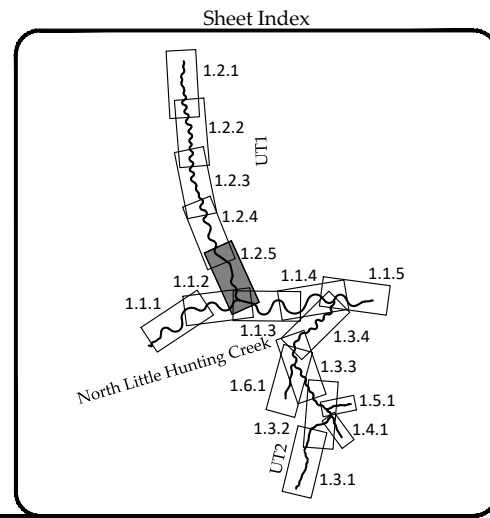
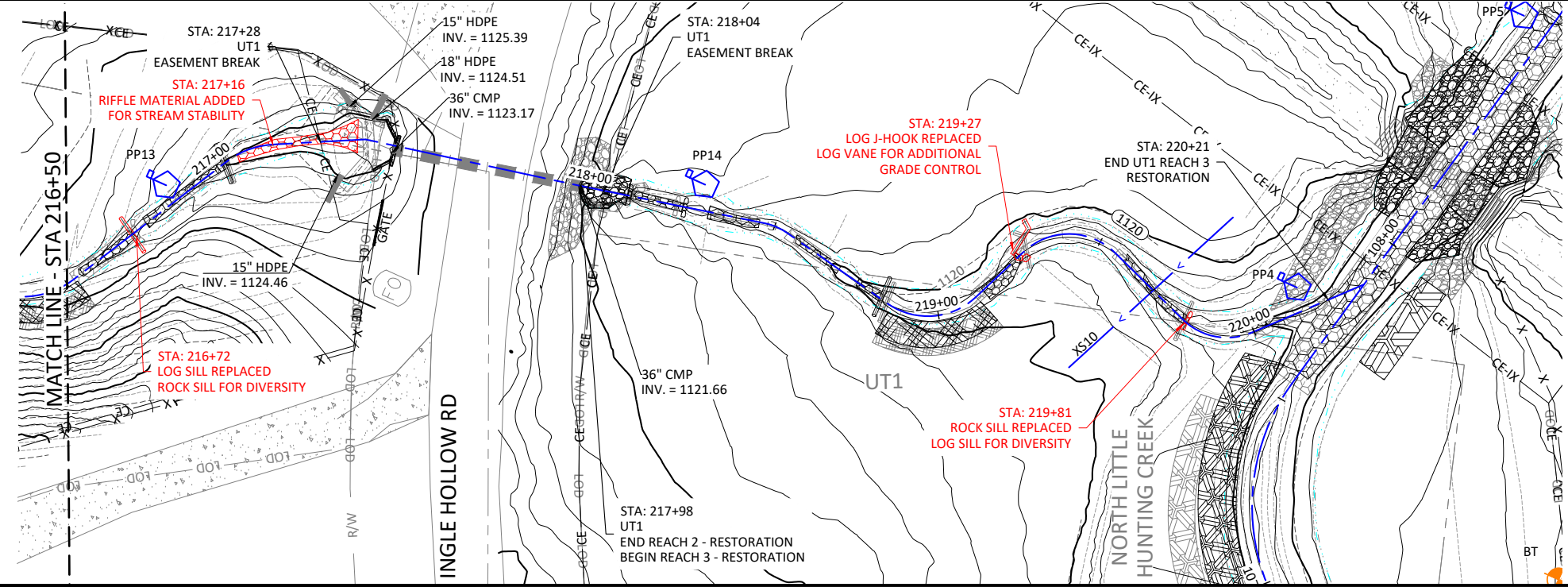


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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
UT1  
Stream Plan and Profile

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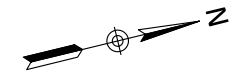
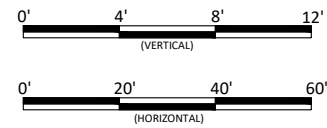
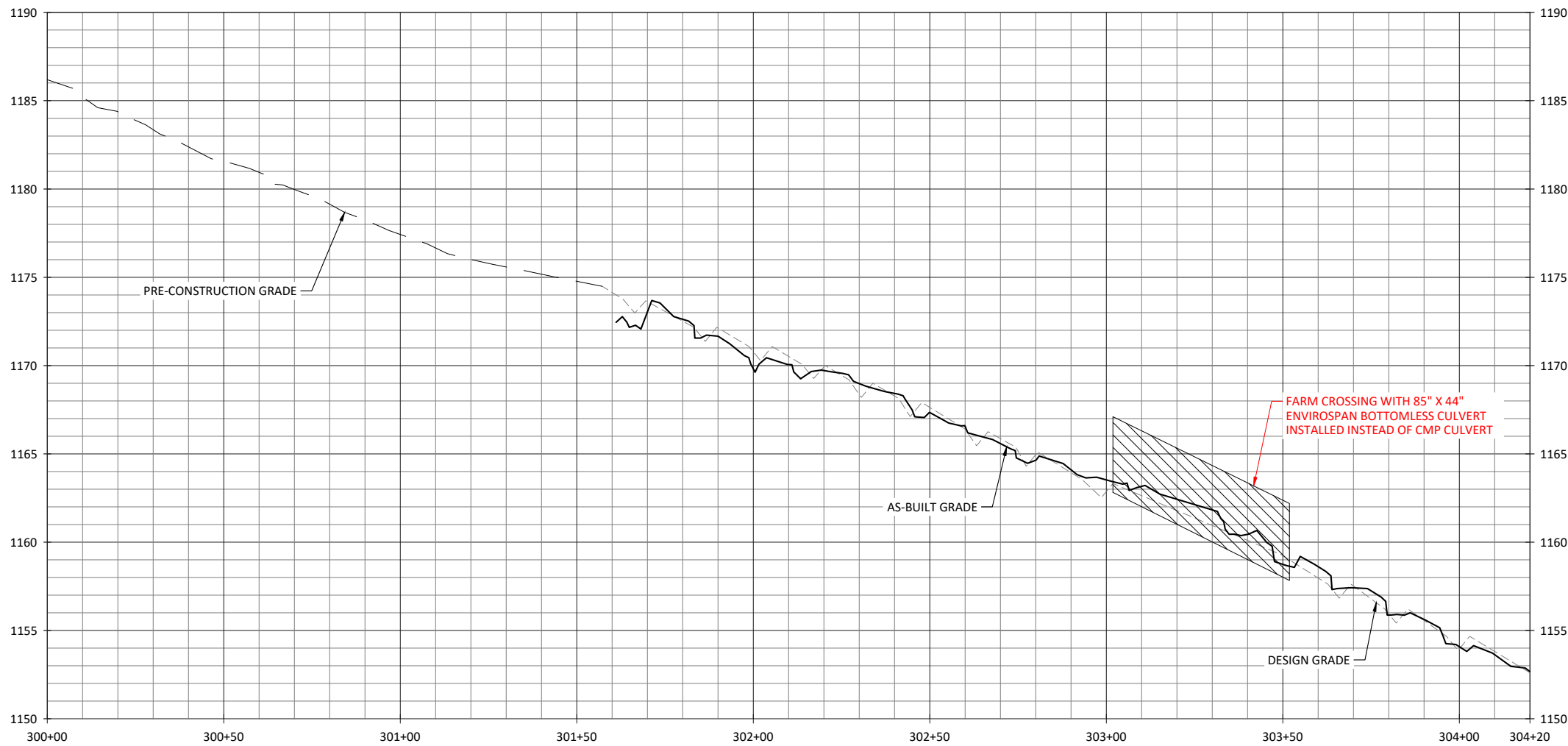


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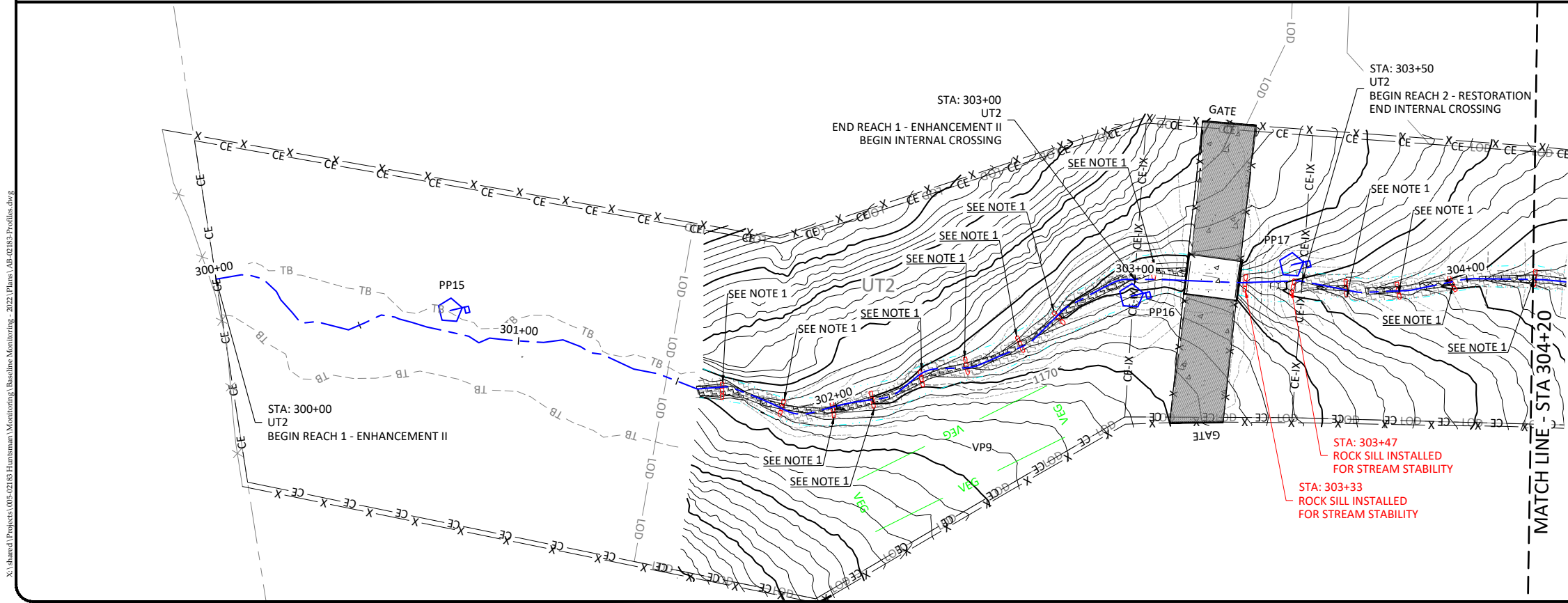

Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

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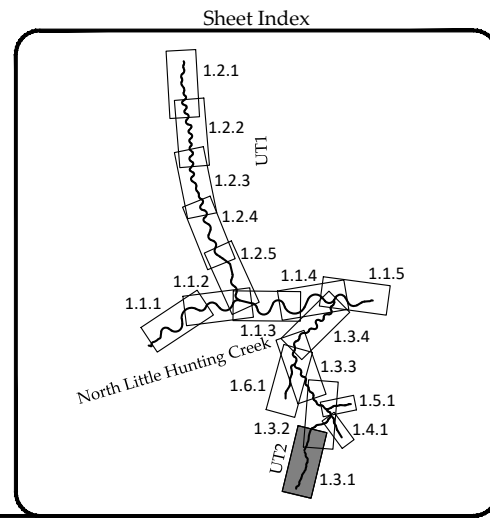




**Huntsman Stream Mitigation Site Record Drawing**  
Wilkes County, North Carolina  
UT2  
Stream Plan and Profile



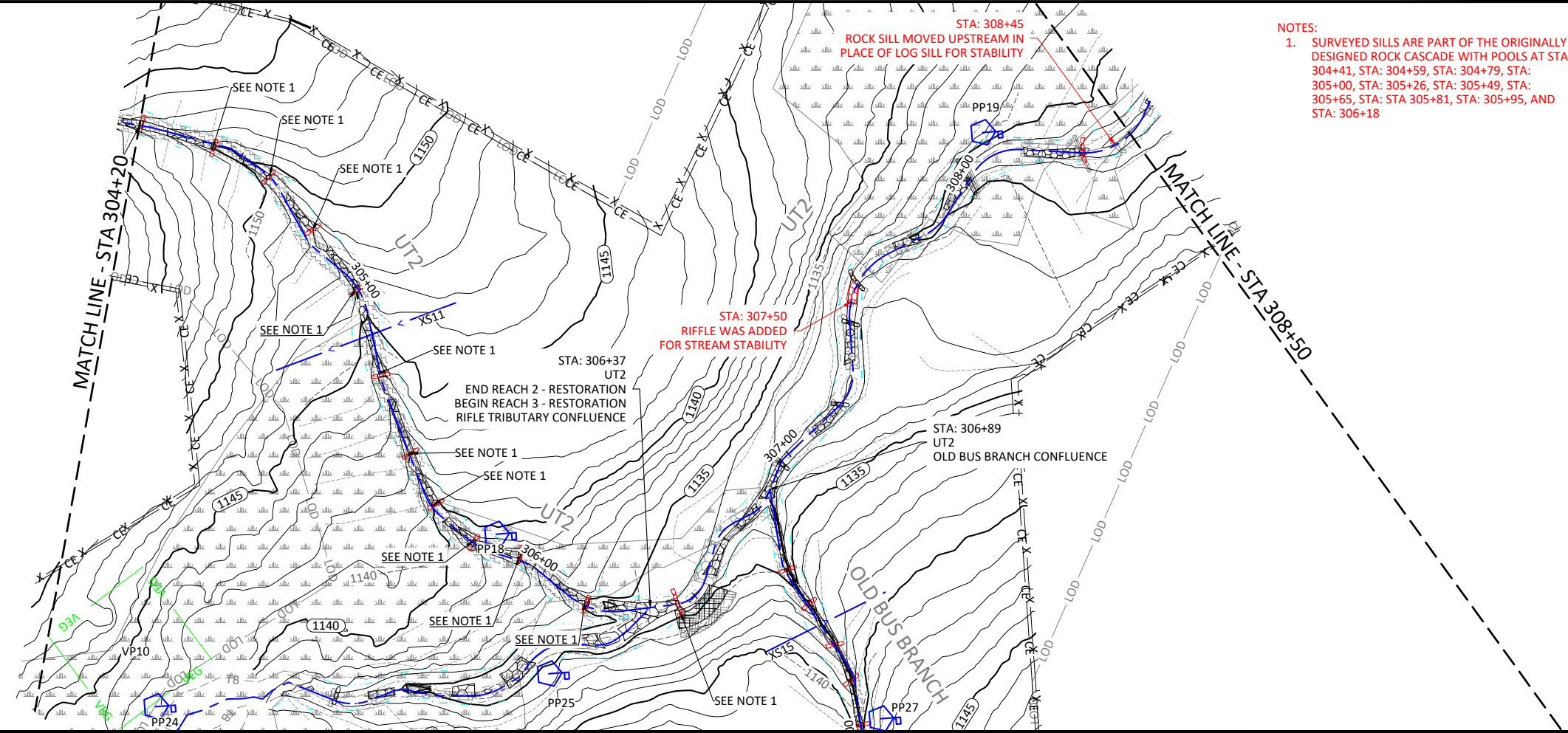
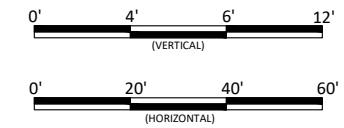
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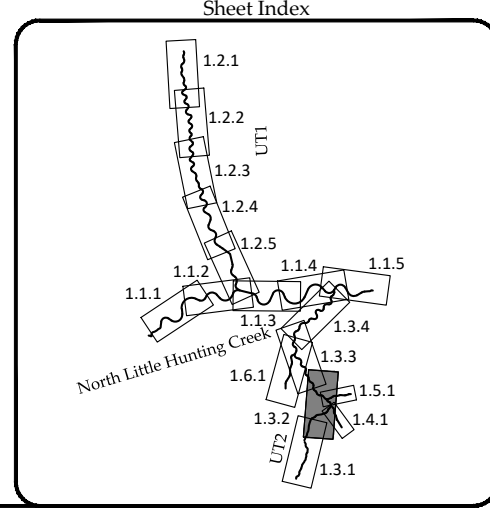
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Date: AUGUST 2, 2022  
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Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

**1.3.1**



- NOTES:
1. SURVEYED SILLS ARE PART OF THE ORIGINALLY DESIGNED ROCK CASCADE WITH POOLS AT STA: 304+41, STA: 304+59, STA: 304+79, STA: 305+00, STA: 305+26, STA: 305+49, STA: 305+65, STA: STA 305+81, STA: 305+95, AND STA: 306+18



Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina

UT2  
Stream Plan and Profile

Revisions:


Date: AUGUST 2, 2022  
Job Number: 015-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

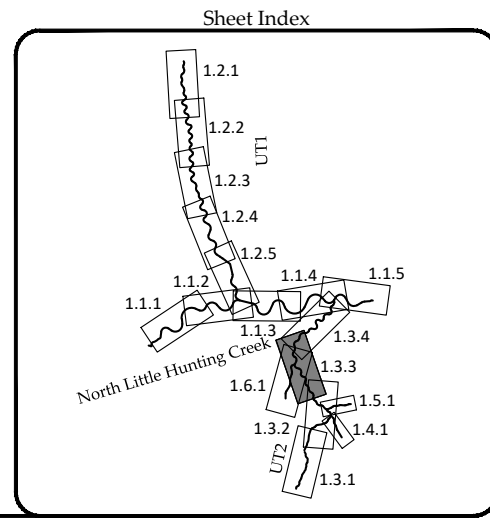
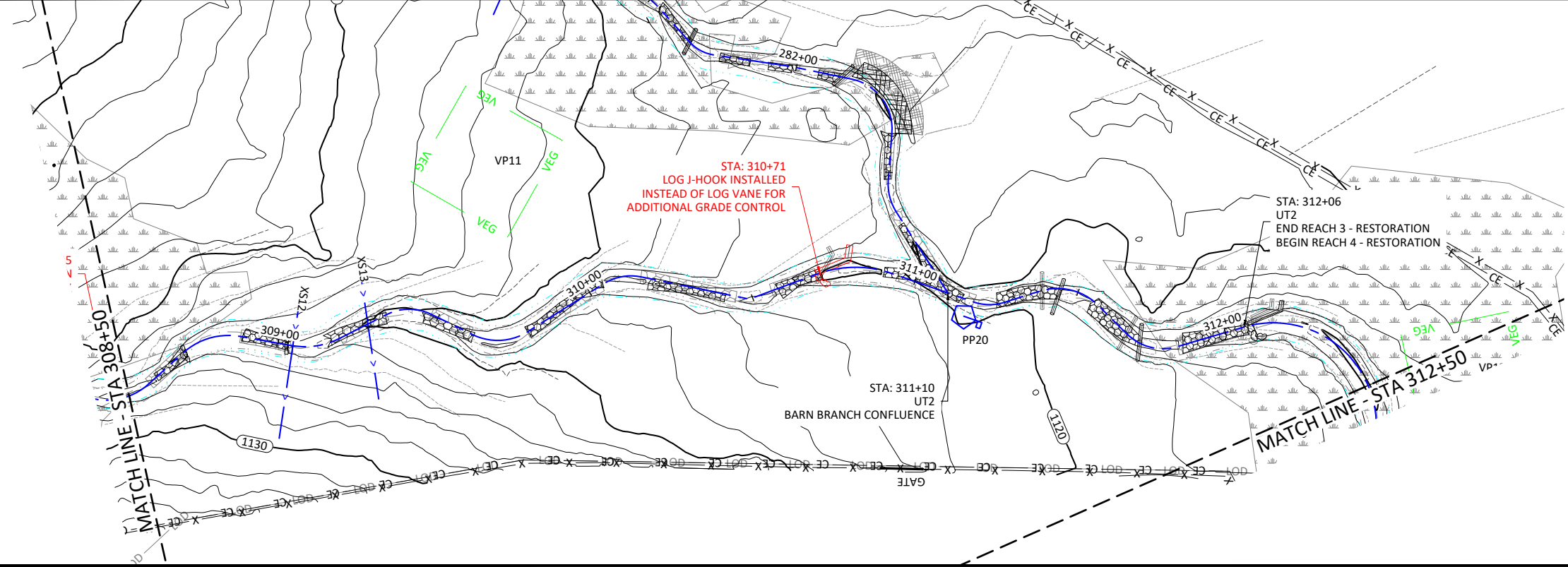
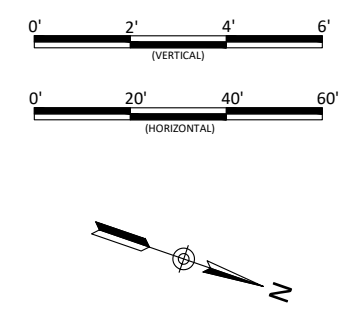
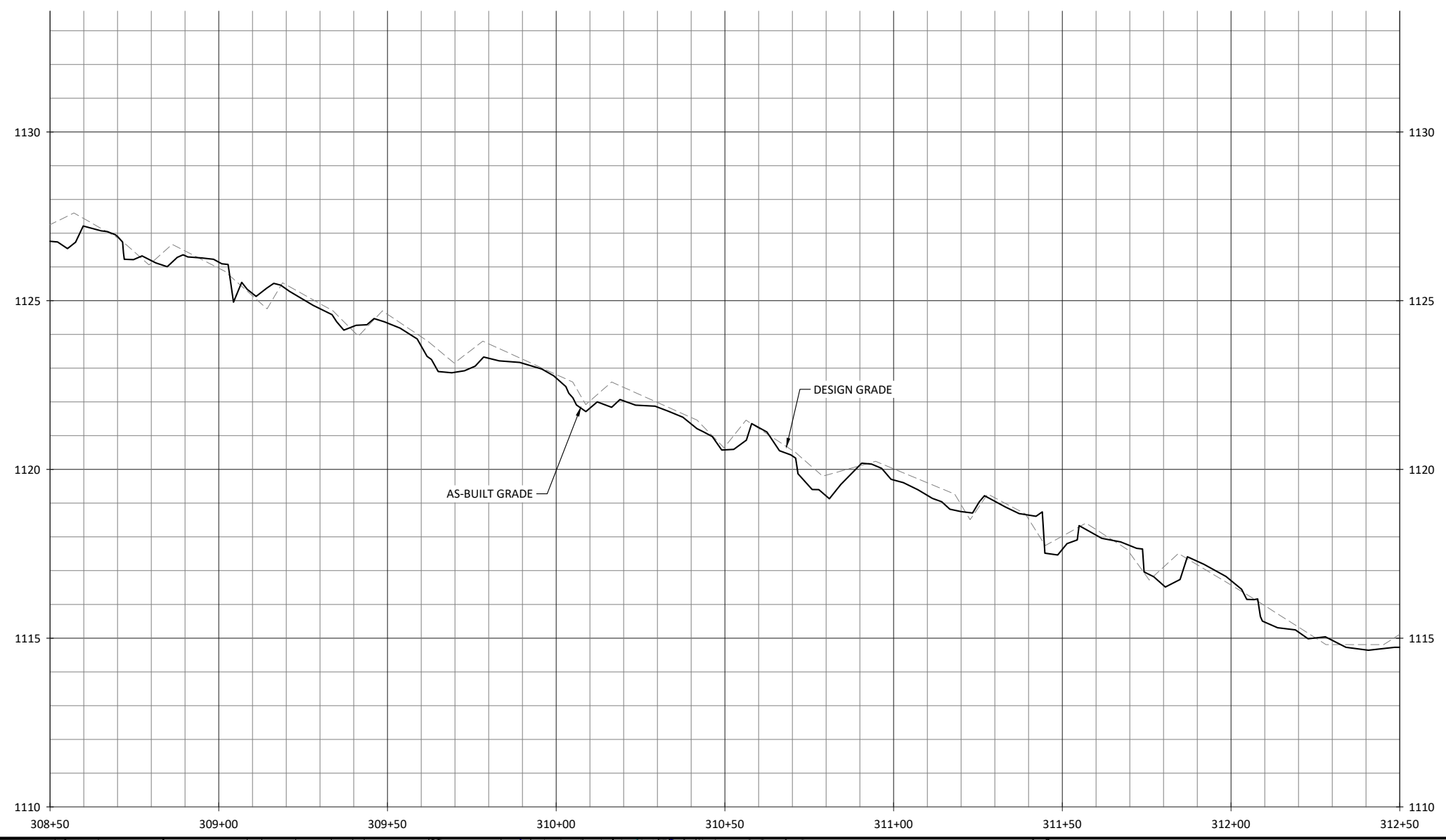
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Sheet



August 2, 2022

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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina

UT2  
Stream Plan and Profile

Revisions:


Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

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Sheet

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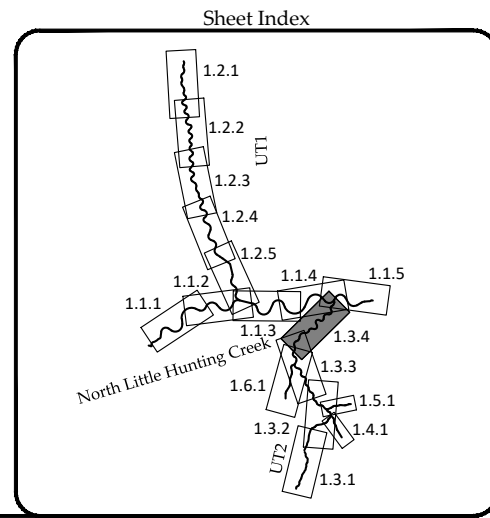
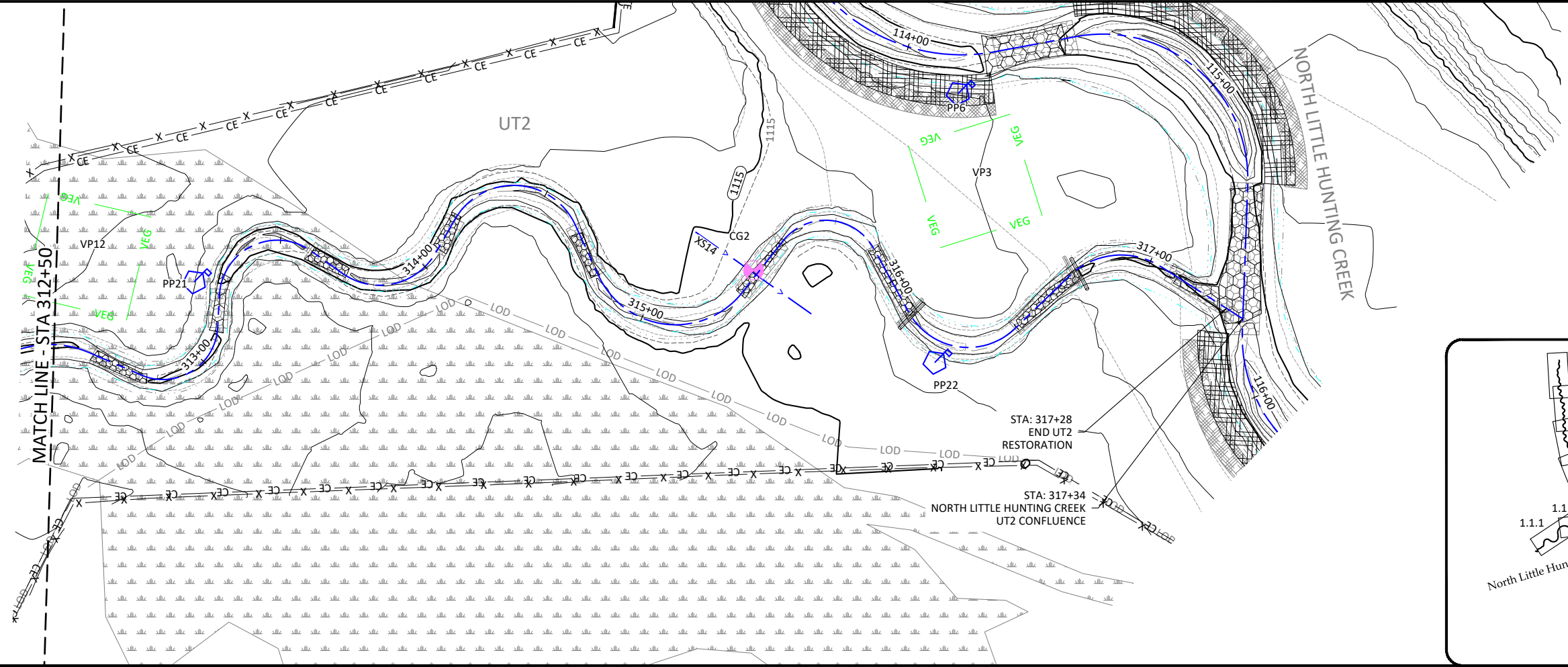
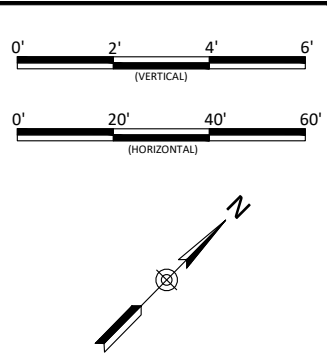
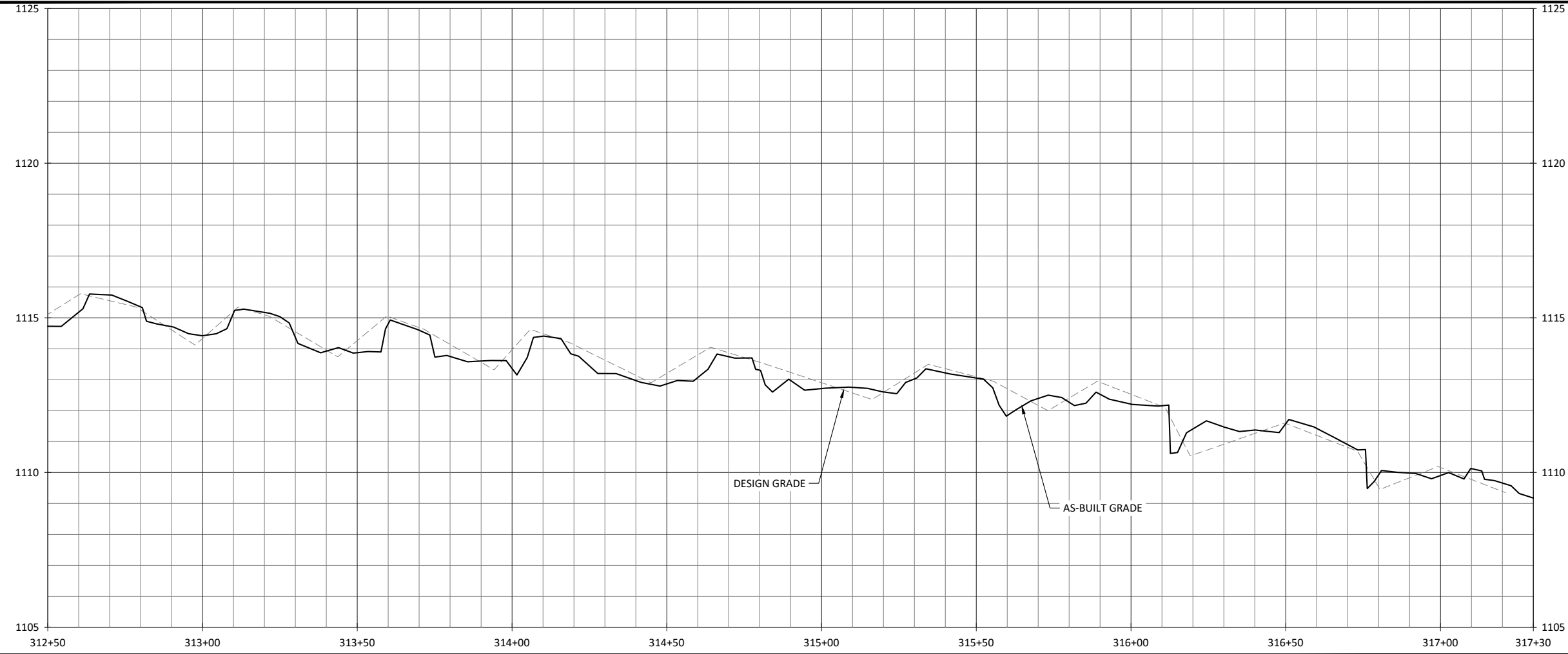
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August 2, 2022

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Huntsman Stream Mitigation Site Record Drawing  
 Wilkes County, North Carolina

UT2  
 Stream Plan and Profile

Revisions:


Date: AUGUST 2, 2022  
 Job Number: 005-02183  
 Project Engineer: SRK  
 Drawn By: JCK  
 Checked By: EGR

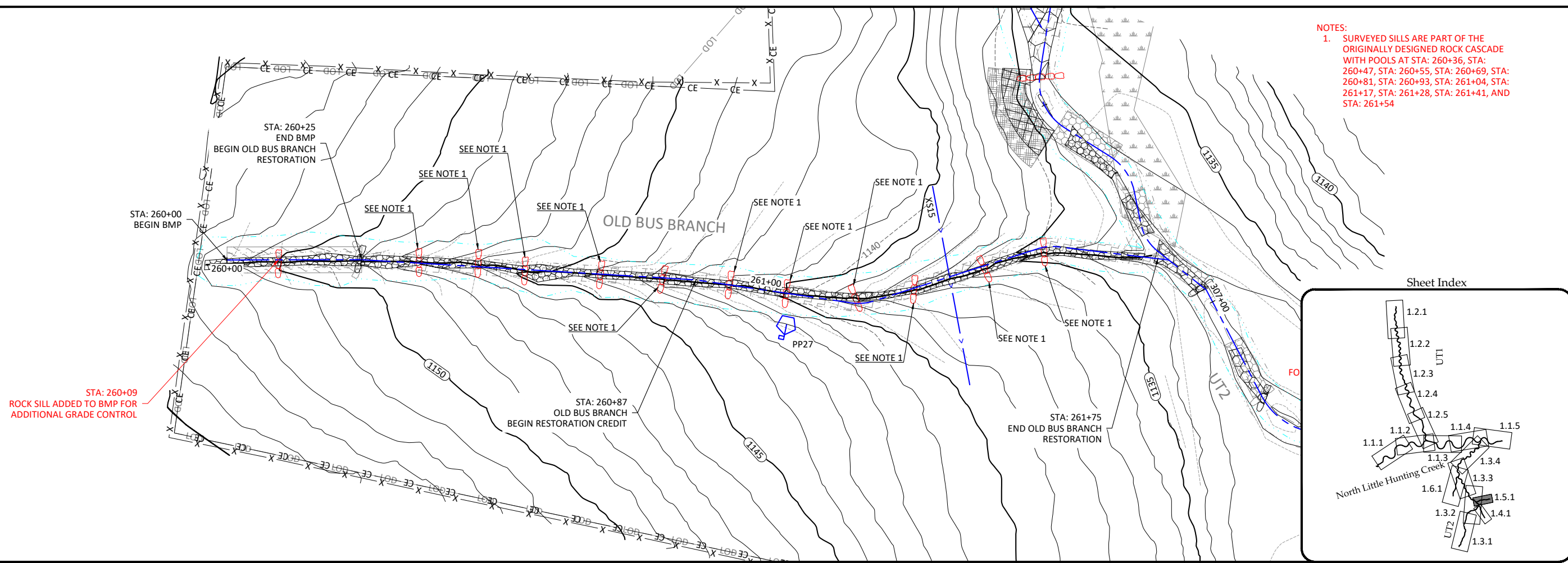
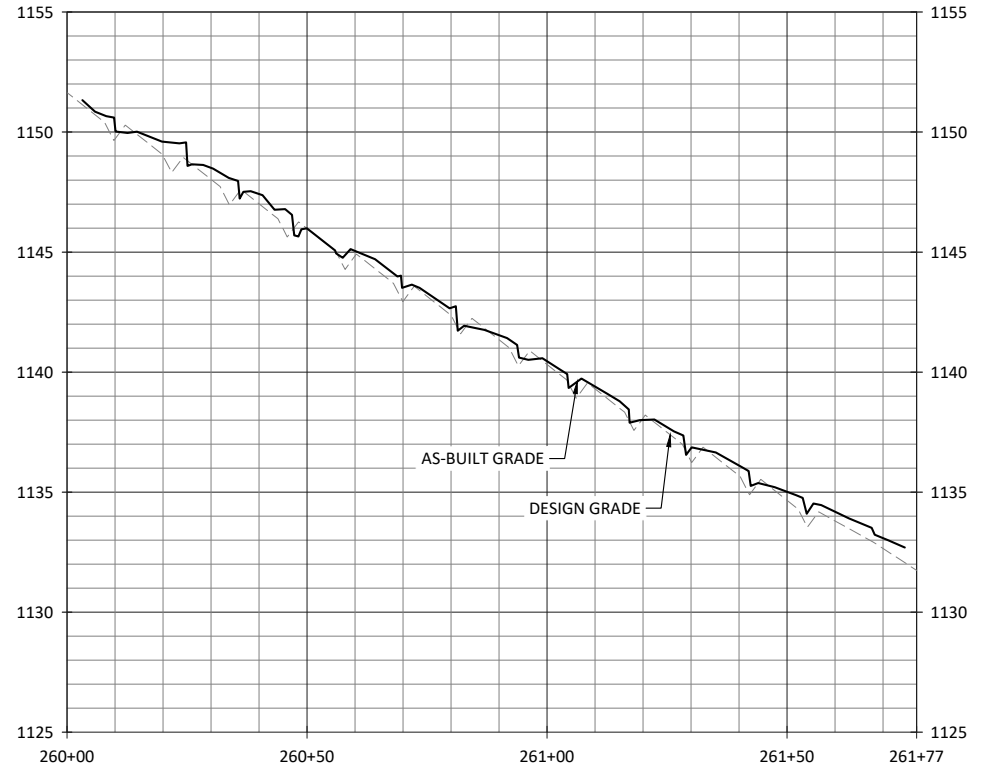
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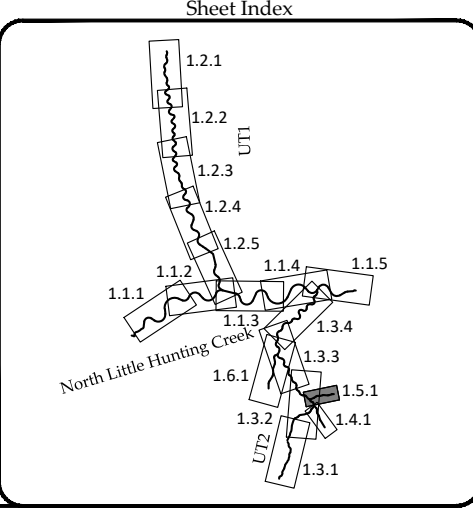


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 License No. F-0831





- NOTES:
1. SURVEYED SILLS ARE PART OF THE ORIGINALLY DESIGNED ROCK CASCADE WITH POOLS AT STA: 260+36, STA: 260+47, STA: 260+55, STA: 260+69, STA: 260+81, STA: 260+93, STA: 261+04, STA: 261+17, STA: 261+28, STA: 261+41, AND STA: 261+54



Huntsman Stream Mitigation Site Record Drawing  
 Wilkes County, North Carolina  
 Old Bus Branch  
 Stream Plan and Profile

**WILDLANDS**  
 ENGINEERING  
 1430 South Mint Street, Suite 104  
 Charlotte, NC 28203  
 Tel: 704.332.7754  
 License No. F-0831



Revisions:


Date: AUGUST 2, 2022  
 Job Number: 005-02183  
 Project Engineer: SRK  
 Drawn By: JCK  
 Checked By: EGR

1.5.1



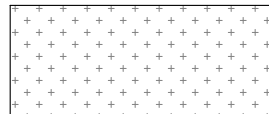


### Open Riparian Buffer Planting Zone



Buffer Planting Zone						
Open/Graded Bare Roots						
Species	Common Name	Indiv. Spacing	Min. Caliper Size	Stratum**	# of Stems	Wetland Indicator Status
<i>Platanus occidentalis</i> *	Sycamore	6-8 ft.	0.25" - 1.0"	Canopy	15%	FACW
<i>Betula nigra</i> *	River birch	6-8 ft.	0.25" - 1.0"	Canopy	15%	FACW
<i>Nyssa sylvatica</i>	Black gum	6-8 ft.	0.25" - 1.0"	Canopy	5%	FAC
<i>Fagus grandifolia</i>	American beech	6-8 ft.	0.25" - 1.0"	Canopy	5%	FACU
<i>Quercus rubra</i>	Northern red oak	6-8 ft.	0.25" - 1.0"	Canopy	5%	FACU
<i>Ulmus americana</i> *	American elm	6-8 ft.	0.25" - 1.0"	Canopy	5%	FACW
<i>Ulmus rubra</i>	Slippery elm	6-8 ft.	0.25" - 1.0"	Subcanopy	5%	FAC
<i>Acer negundo</i> *	Boxelder	6-8 ft.	0.25" - 1.0"	Subcanopy	10%	FAC
<i>Cornus florida</i>	Flowering dogwood	6-8 ft.	0.25" - 1.0"	Subcanopy	5%	FACU
<i>Diospyros virginiana</i>	Persimmon	6-8 ft.	0.25" - 1.0"	Canopy	10%	FAC
<i>Calycanthus floridus</i> *	Sweetshrub	6-8 ft.	0.25" - 1.0"	Shrub	5%	FACU
<i>Lindera benzoin</i>	Spicebush	6-8 ft.	0.25" - 1.0"	Shrub	5%	FAC
<i>Asimina triloba</i>	Pawpaw	6-8 ft.	0.25" - 1.0"	Shrub	5%	FAC
<i>Quercus alba</i>	White oak	6-8 ft.	0.25" - 1.0"	Canopy	5%	FACU
*Species to be planted in wetter portions of the site					100%	
** Only canopy species are subject to monitoring height requirements.						

### Shaded Riparian Buffer Planting Zone



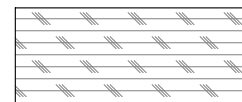
Buffer Planting Zone						
Shaded Bare Roots						
Species	Common Name	Indiv. Spacing	Min. Caliper Size	Stratum**	# of Stems	Wetland Indicator Status
<i>Platanus occidentalis</i>	Sycamore	6-8 ft.	0.25" - 1.0"	Canopy	15%	FACW
<i>Betula nigra</i>	River birch	6-8 ft.	0.25" - 1.0"	Canopy	15%	FACW
<i>Liriodendron tulipifera</i>	Tulip poplar	6-8 ft.	0.25" - 1.0"	Canopy	2%	FACU
<i>Carpinus caroliniana</i>	American hornbeam	6-8 ft.	0.25" - 1.0"	Subcanopy	5%	FAC
<i>Diospyros virginiana</i>	Persimmon	6-8 ft.	0.25" - 1.0"	Canopy	5%	FAC
<i>Nyssa sylvatica</i>	Black gum	6-8 ft.	0.25" - 1.0"	Canopy	10%	FAC
<i>Euonymus americana</i>	American strawberry bush	6-8 ft.	0.25" - 1.0"	Shrub	3%	FAC
<i>Calycanthus floridus</i>	Sweetshrub	6-8 ft.	0.25" - 1.0"	Shrub	5%	FACU
<i>Hamamelis virginiana</i>	Witch hazel	6-8 ft.	0.25" - 1.0"	Shrub	5%	FACU
<i>Quercus rubra</i>	Northern red oak	6-8 ft.	0.25" - 1.0"	Canopy	10%	FACU
<i>Fagus grandifolia</i>	American beech	6-8 ft.	0.25" - 1.0"	Canopy	5%	FACU
<i>Quercus alba</i>	White oak	6-8 ft.	0.25" - 1.0"	Canopy	10%	FACU
<i>Lindera benzoin</i>	Spicebush	6-8 ft.	0.25" - 1.0"	Shrub	5%	FAC
<i>Cornus florida</i>	Flowering dogwood	6-8 ft.	0.25" - 1.0"	Subcanopy	5%	FACU
** Only canopy species are subject to monitoring height requirements.					100%	

### Permanent Seeding

Note:  
Permanent Riparian seeding in all disturbed areas within Conservation Easement

Buffer Planting Zone				
Riparian Seed Mix				
Species	Common Name	Stratum	Density (lbs/acre)	Wetland Indicator Status
<i>Panicum rigidulum</i>	Redtop Panicgrass	Herb	1	FACW
<i>Chasmanthium latifolium</i>	River Oats	Herb	1	FACU
<i>Elymus virginicus</i>	Virginia Wild Rye	Herb	3	FACW
<i>Dichanthelium clandestinum</i>	Deertongue	Herb	3	FAC
<i>Sorghastrum nutans</i>	Indiangrass	Herb	3	FACU
<i>Schizachyrium scoparium</i>	Little Bluestem	Herb	2	FACU
<i>Panicum virgatum</i>	Switchgrass	Herb	1	FAC
<i>Rudbeckia hirta</i>	Blackeyed Susan	Herb	1	FACU
<i>Bidens aristosa</i>	Showy Tickseed Sunflower	Herb	1	FACW
<i>Helianthus angustifolius</i>	Narrowleaf Sunflower	Herb	0.6	FACW
<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	Herb	1	FACU
<i>Chamaecrista fasciculata</i>	Partridge Pea	Herb	1	FACU
<i>Heliopsis helianthoides var. helianthoides</i>	Oxeye Sunflower	Herb	1	FACU
<i>Juncus tenuis</i>	Path Rush	Herb	0.4	FAC
			Total	20

Disturbed areas outside easement.



### Streambank Planting Zone

Buffer Planting Zone						
Streambank Planting						
Species	Common Name	Indiv. Spacing	Min. Caliper Size	Stratum	# of Stems	Wetland Indicator Status
<b>Streams &gt; 8' Bankfull Width</b>						
<i>Salix nigra</i>	Black Willow	2-8 ft	0.5"-1.5" cal	Shrub	14%	OBL
<i>Cornus amomum</i>	Silky Dogwood	2-8 ft	0.5"-1.5" cal	Shrub	24%	FACW
<i>Salix sericea</i>	Silky Willow	2-8 ft	0.5"-1.5" cal	Shrub	33%	OBL
<i>Physocarpus opulifolius</i>	Ninebark	2-8 ft	0.5"-1.5" cal	Shrub	14%	FACW
<i>Sambucus canadensis</i>	Elderberry	2-8 ft	0.5"-1.5" cal	Shrub	15%	
<b>Streams &lt; 8' Bankfull Width</b>						
<i>Cornus amomum</i>	Silky Dogwood	2-8 ft	0.5"-1.5" cal	Shrub	24%	FACW
<i>Salix sericea</i>	Silky Willow	2-8 ft	0.5"-1.5" cal	Shrub	33%	OBL
<i>Physocarpus opulifolius</i>	Ninebark	2-8 ft	0.5"-1.5" cal	Shrub	14%	FACW
<i>Sambucus canadensis</i>	Elderberry	2-8 ft	0.5"-1.5" cal	Shrub	15%	FAC
<del><i>Ainus serrulata</i></del>	<del>Tag Alder</del>	<del>2-8 ft</del>	<del>0.5"-1.5" cal</del>	<del>Shrub</del>	<del>15%</del>	<del>OBL</del>
<i>Salix nigra</i>	Black Willow	2-8 ft	0.5"-1.5" cal	Shrub	14%	OBL
<b>Plugs</b>						
<i>Juncus effusus</i>	Common Rush	3-5 ft	1.0"-2.0" plug	Herb	40%	FACW
<i>Carex lupulina</i>	Hop Sedge	3-5 ft	1.0"-2.0" plug	Herb	15%	OBL
<i>Scirpus cyperinus</i>	Woolgrass	3-5 ft	1.0"-2.0" plug	Herb	15%	FACW
<i>Carex crinita</i>	Fringed Sedge	3-5 ft	1.0"-2.0" plug	Herb	15%	OBL
<i>Carex lurida</i>	Lurid Sedge	3-5 ft	1.0"-2.0" plug	Herb	15%	OBL

Temporary Seeding		
Approved Date		
Jan 1 - May 1	Winter Oats (Avena Sativa)	55
	Rye Grain (Secale cereale)	120
	Ladino Clover (Trifolium repens)	5
	Medium Red Clover (Trillium pretense)	5
	SoluCal Humic Plus	200
	Neem Seed Meal	200
	Fertoz 0-20-0	200
May 1 - Aug 15	Straw Mulch	4000
	German Millet (Setaria italica)	40
	Buckwheat (Fagopyrum esculentum)	40
	SoluCal Humic Plus	200
	Fertoz 0-20-0	200
	Neem Seed Meal	200
	Straw Mulch	4000
Aug 15 - Dec 30	Winter Oats (Avena Sativa)	55
	Medium Red Clover (Trillium pretense)	5
	Ladino Clover (Trifolium repens)	5
	Neem Seed Meal	200
	SoluCal Humic Plus	200
	Fertoz 0-20-0	200
	Straw Mulch	4000

### Pasture Seeding

Pasture Seeding			
Pure Live Seeding (50 lbs/acre)			
Species Name	Common Name	Density (lbs/acre)	Wetland Indicator Status
<i>Dactylis glomerata</i>	Orchard Grass	33	FACU
<i>Trifolium pratense</i>	Medium Red Cover	5	FACU
<i>Trifolium repens</i>	White Ladino Cover	5	FACU
<i>Poa pratensis</i>	Kentucky Bluegrass	7	FACU



Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina

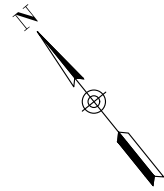
Plant Lists  
Planting

Revisions:  
Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

2.0

Sheet

Total Planted Area: 24 acres



Revisions:


Date:	AUGUST 2, 2022
Job Number:	015-02183
Project Engineer:	SRK
Drawn By:	JCK
Checked By:	EGK

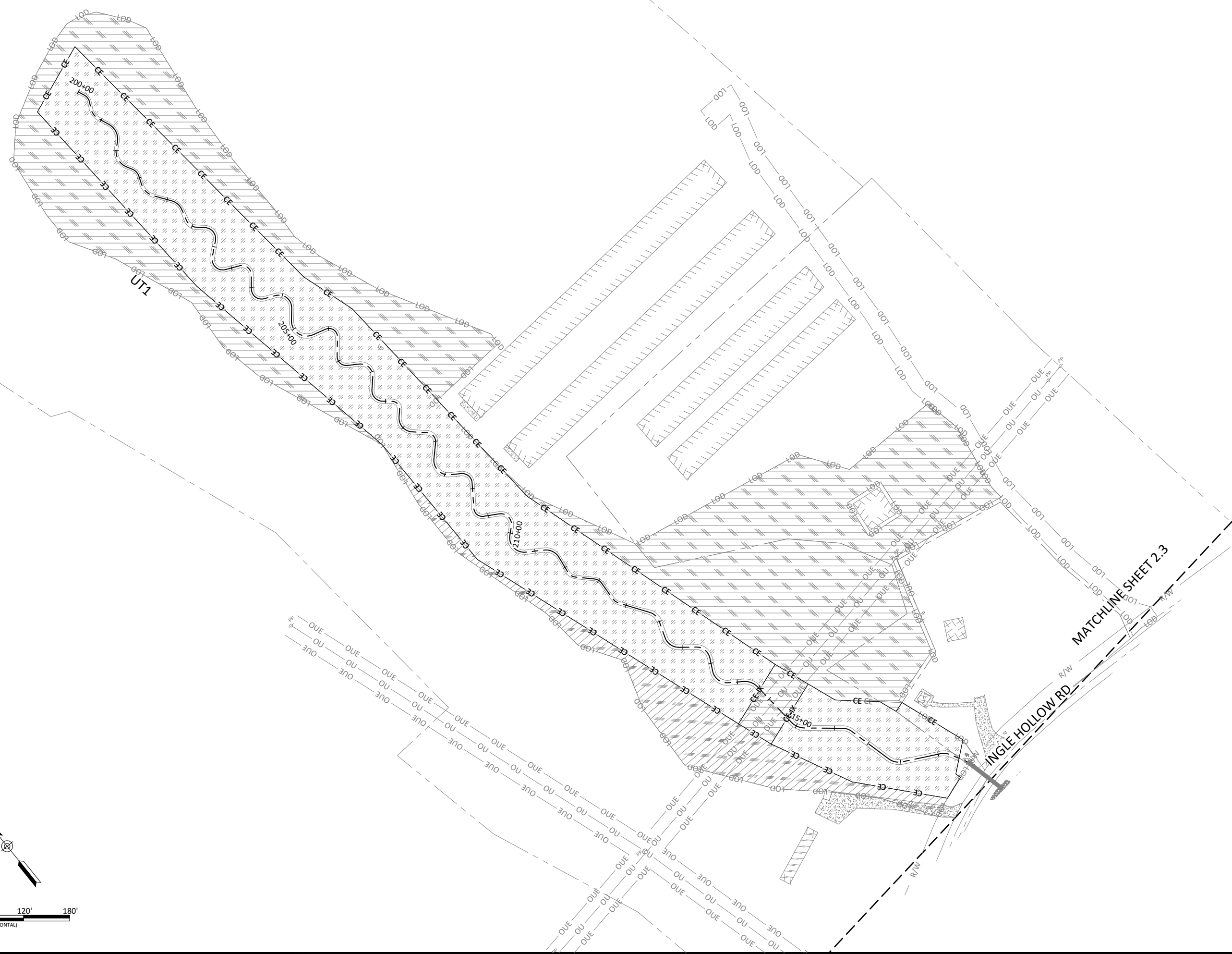
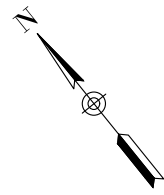
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Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina  
Planting Overview







Revisions:


Date:	AUGUST 2, 2022
Job Number:	005-02183
Project Engineer:	SRK
Drawn By:	JCK
Checked By:	EGK

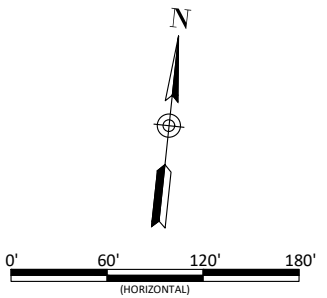
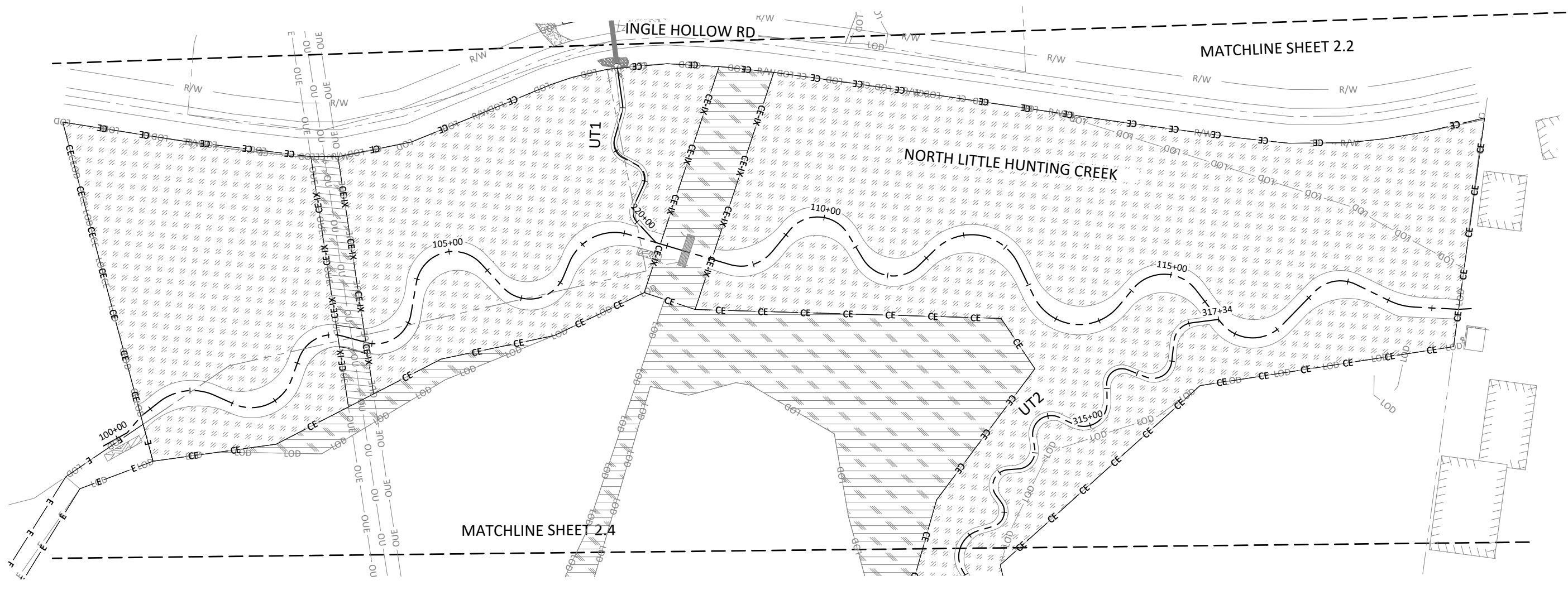
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Sheet

Huntsman Stream Mitigation Site Record Drawing  
Wilkes County, North Carolina

UT1  
Planting





**Huntsman Stream Mitigation Site Record Drawing**  
**Wilkes County, North Carolina**  
 North Little Hunting Creek  
 Planting

Date:	AUGUST 2, 2022
Job Number:	005-02183
Project Engineer:	SRK
Drawn By:	JCK
Checked By:	EGK

**2.3**

Sheet





MATCHLINE SHEET 2.3

Huntsman Stream Mitigation Site Record Drawing  
 Wilkes County, North Carolina

UT2  
 Planting

Revisions:	

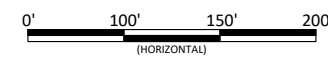
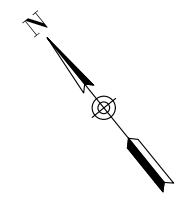
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 Job Number: 005-02183  
 Project Engineer: SRK  
 Drawn By: JCK  
 Checked By: EGR

2.4

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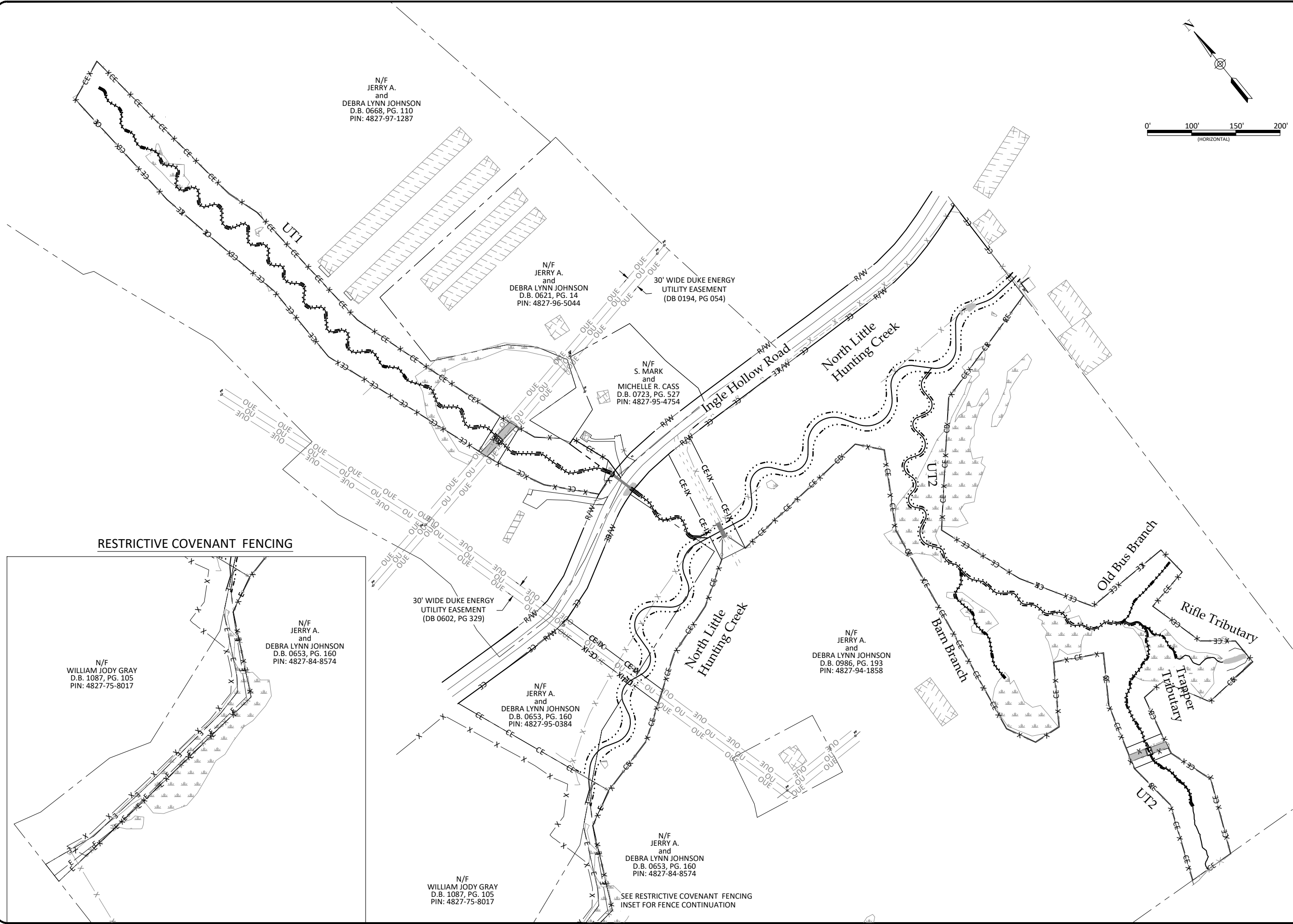
**Huntsman Stream Mitigation Site Record Drawing**  
Wilkes County, North Carolina

Fencing Overview

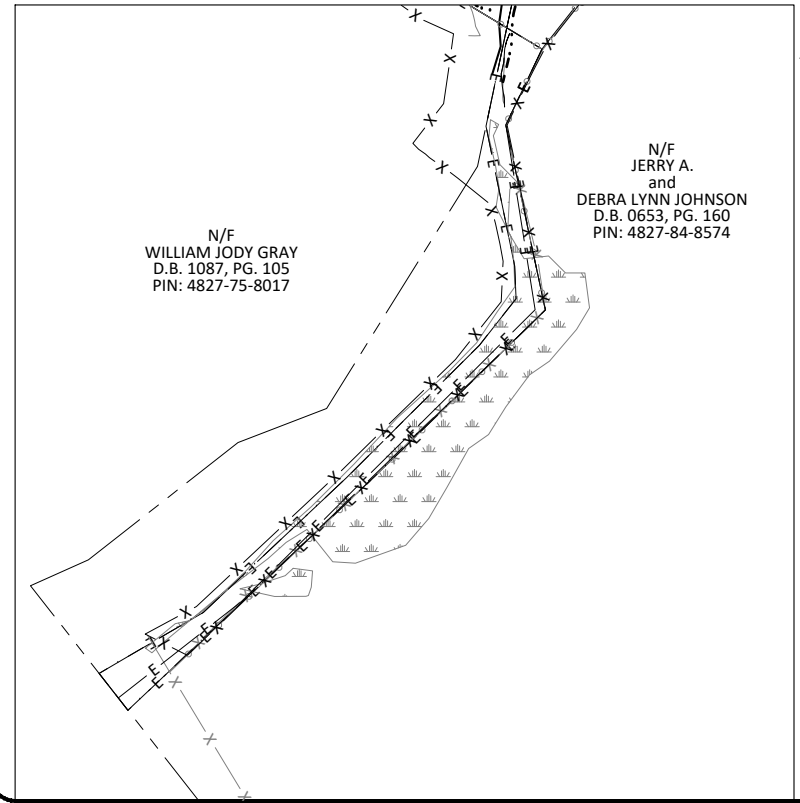
Revisions:


Date: AUGUST 2, 2022  
Job Number: 005-02183  
Project Engineer: SRK  
Drawn By: JCK  
Checked By: EGR

**3.0**



**RESTRICTIVE COVENANT FENCING**



N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0668, PG. 110  
PIN: 4827-97-1287

N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0621, PG. 14  
PIN: 4827-96-5044

N/F  
S. MARK  
and  
MICHELLE R. CASS  
D.B. 0723, PG. 527  
PIN: 4827-95-4754

30' WIDE DUKE ENERGY  
UTILITY EASEMENT  
(DB 0602, PG 329)

N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0653, PG. 160  
PIN: 4827-84-8574

N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0653, PG. 160  
PIN: 4827-95-0384

N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0986, PG. 193  
PIN: 4827-94-1858

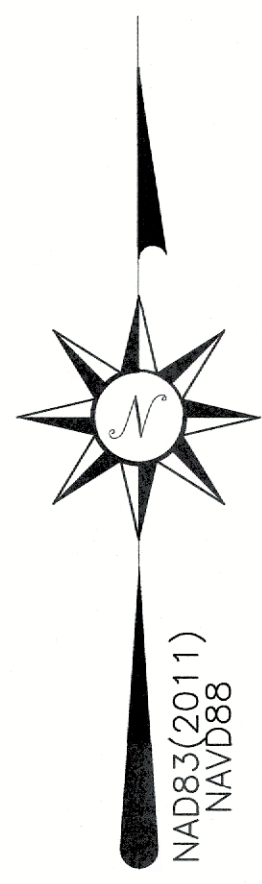
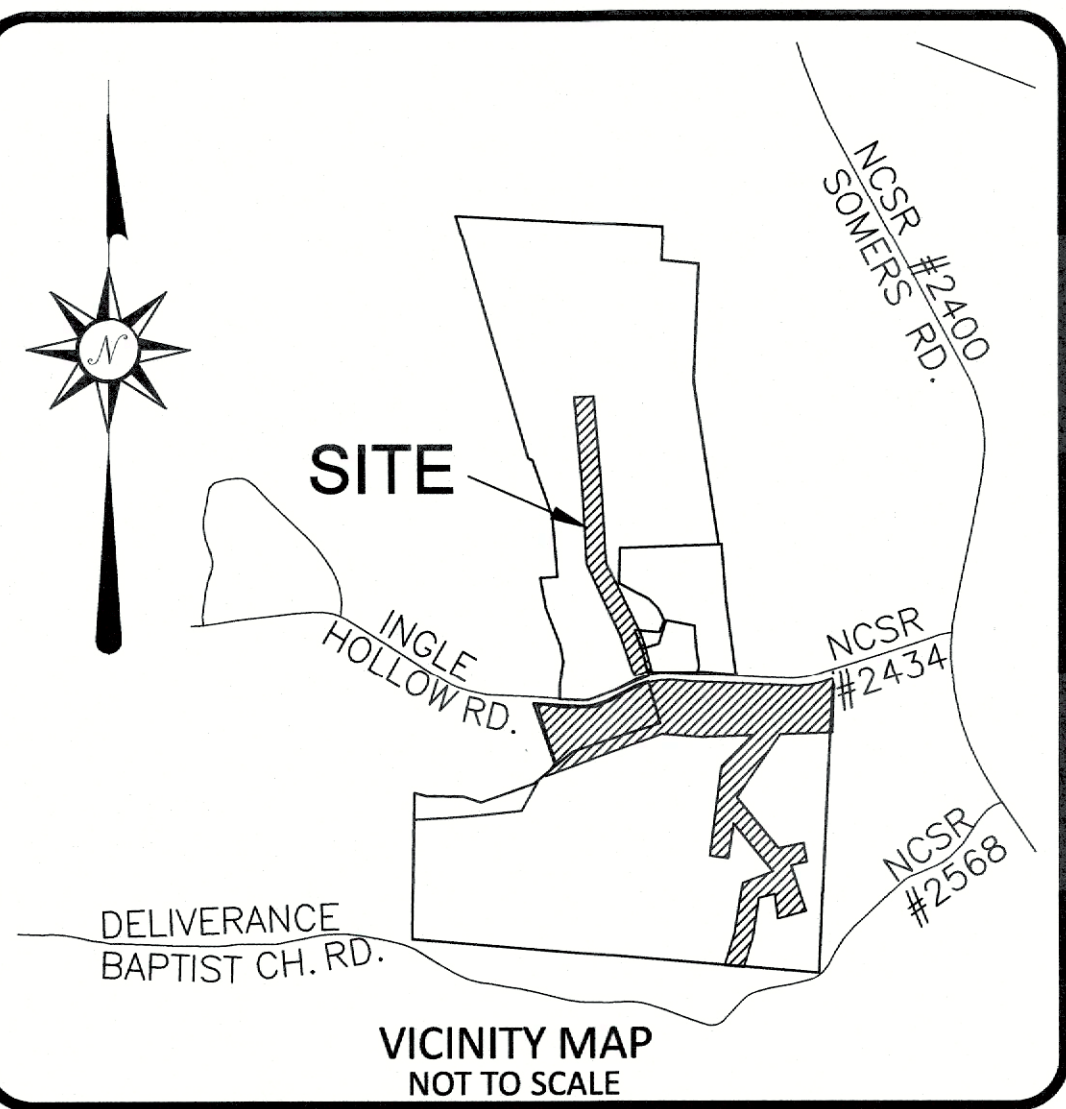
N/F  
WILLIAM JODY GRAY  
D.B. 1087, PG. 105  
PIN: 4827-75-8017

N/F  
JERRY A.  
and  
DEBRA LYNN JOHNSON  
D.B. 0653, PG. 160  
PIN: 4827-84-8574

SEE RESTRICTIVE COVENANT FENCING  
INSET FOR FENCE CONTINUATION

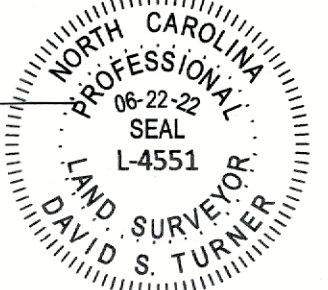


# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



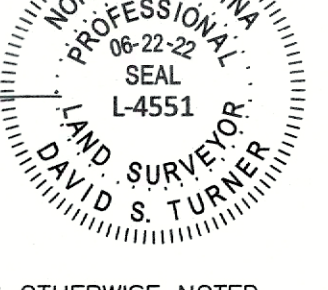
I, DAVID S. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 22nd DAY OF JUNE, 2022.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



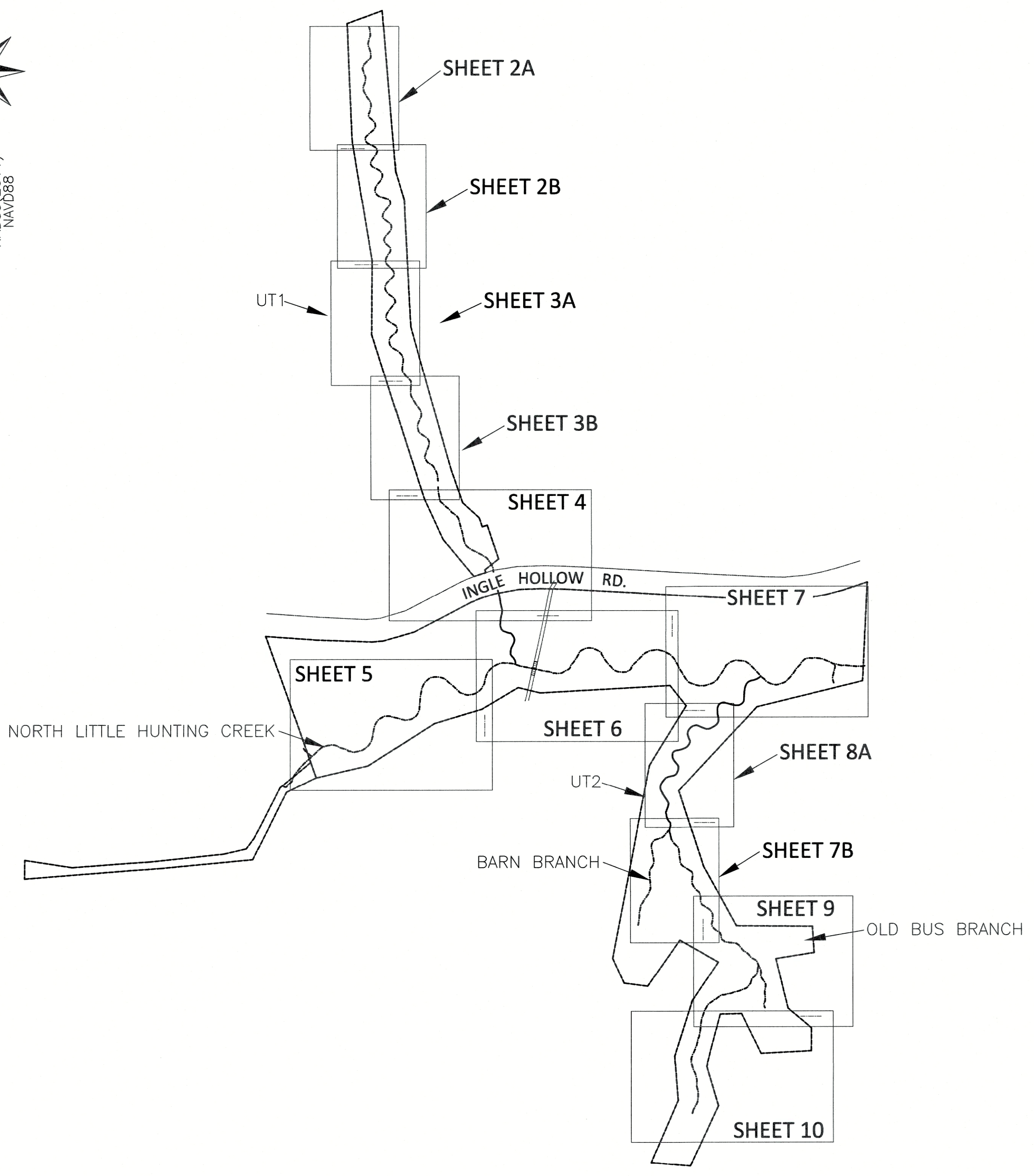
I, DAVID S. TURNER, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC SURVEY TO THE HORIZONTAL ACCURACY OF CLASS A AND THE VERTICAL ACCURACY WHEN APPLICABLE TO CLASS C STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED IN APR-MAY 2022; THAT THE SURVEY WAS COMPLETED ON 16 MAY 2022; AND ALL COORDINATES ARE BASED ON NAD83 (2011) AND ALL ELEVATIONS ARE BASED ON NAVD88. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL THIS 22nd DAY OF JUNE, 2022.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



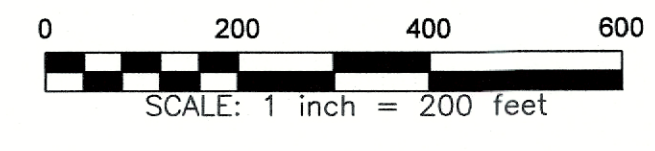
- GENERAL NOTES:
- ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
  - HORIZONTAL DATUM IS NAD83(2011) & VERTICAL DATUM IS NAVD88.
  - THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
  - THE PURPOSE OF THIS MAP IS TO SHOW THE AS-BUILT CONDITIONS OF THE HUNTSMAN STREAM MITIGATION.
  - THE AS-BUILT CONTROL NETWORK WAS ESTABLISHED BY TURNER LAND SURVEYING DURING THE EXISTING CONDITIONS SURVEY AND RECOVERED AND SUPPLEMENTED DURING THE AS-BUILT SURVEY. THE COORDINATES ARE LISTED IN THE CHART BELOW.
  - NO PROPERTY RESEARCH, INVESTIGATION, OR INDEPENDENT SEARCH FOR ENCUMBRANCES, RESTRICTIVE COVENANTS, EASEMENTS OF RECORD, OWNERSHIP, TITLE EVIDENCE, OR OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE EXAMINATION MAY DISCLOSE WERE PERFORMED FOR THIS SURVEY. A LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH, AND LOCATION OF EASEMENTS AND OTHER TITLE QUESTIONS REVEALED BY A TITLE EXAMINATION.
  - SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AND/OR ENCUMBRANCES THAT MAY AFFECT THE PROPERTY(S).
  - THIS SURVEYOR DOES NOT CERTIFY TO THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITIES THAT MAY OR MAY NOT EXIST WITHIN THE BOUNDARIES AS SHOWN HEREON.

PointNo.	Northing(Y)	Eastng(X)	Elev(Z)	Description
1	875524.607	1430185.539	1122.901	TLS#1RBC RESET
2	875194.254	1429559.236	1145.980	TLS#2RBC GPS
3	875054.483	1429069.412	1151.401	TLS#3RBC GPS
20	875137.960	1429801.193	1117.800	TLS#20RBC=VP12
21	874839.840	1429880.206	1128.487	TLS#21RBC=XS13
22	874710.345	1430064.361	1139.323	TLS#22RBC=XS15
23	874595.853	1429973.619	1146.570	TLS#23RBC=XS11
30	875813.756	1429253.967	1133.617	TLS#30RBC=XS9
32	876450.981	1429080.301	1153.460	TLS#32RBC=XS7
33	876747.564	1429070.938	1158.705	TLS#33RBC=XS5
60	877118.467	1429056.928	1174.306	TLS#60NL



**LEGEND:**

- THALWEG
- TOP OF BANK/TERRACE
- BANK TOE/TERRACE TOE
- AS-BUILT SURVEY LIMITS
- FARM PATH
- FENCELINE
- GATE
- CONTOURS
- TREELINE
- TREE
- GRAVEL
- RIPRAP/STONE
- BEDROCK
- LOG SILL
- ROCK SILL
- J-HOOK LOG SILL
- ROOTWAD
- BRUSH TOE W/ SOIL LIFT
- VEGETATED LIFT
- CONSTRUCTED RIFFLE
- MONITORING CROSS-SECTION
- VEG PLOT
- MOBILE VEG PLOT
- PHOTO POINT
- STREAM GAUGE
- CONTROL POINT



THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.

REVISIONS, DATE AND INITIAL:

AS-BUILT SURVEY FOR:  
**HUNTSMAN STREAM MITIGATION SITE**

TURNER LAND SURVEYING  
P.O. BOX 148  
SWANANOVA, NC 28778  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified LBE/WBE

NORTH CAROLINA  
WILKES COUNTY  
NEW CASTLE TOWNSHIP

DATE: 6/17/20212  
SURVEYED BY: DST/LDS  
DRAWN BY: EGT/DST  
REVIEWED BY: DST/EGT  
PROJECT: 19-030  
FILE: HUNTSMAN MS\_AB\_F.DWG  
SCALE: AS SHOWN

SHEET 1 of 10



GENERAL NOTES:  
 1. SEE SHEET 1 FOR CERTIFICATIONS.  
 2. SEE SHEET 1 FOR GENERAL NOTES

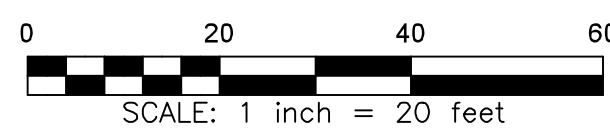
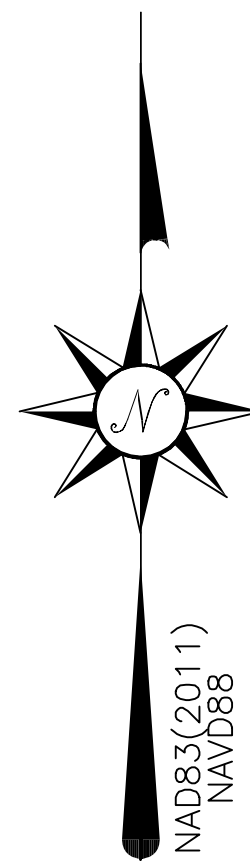
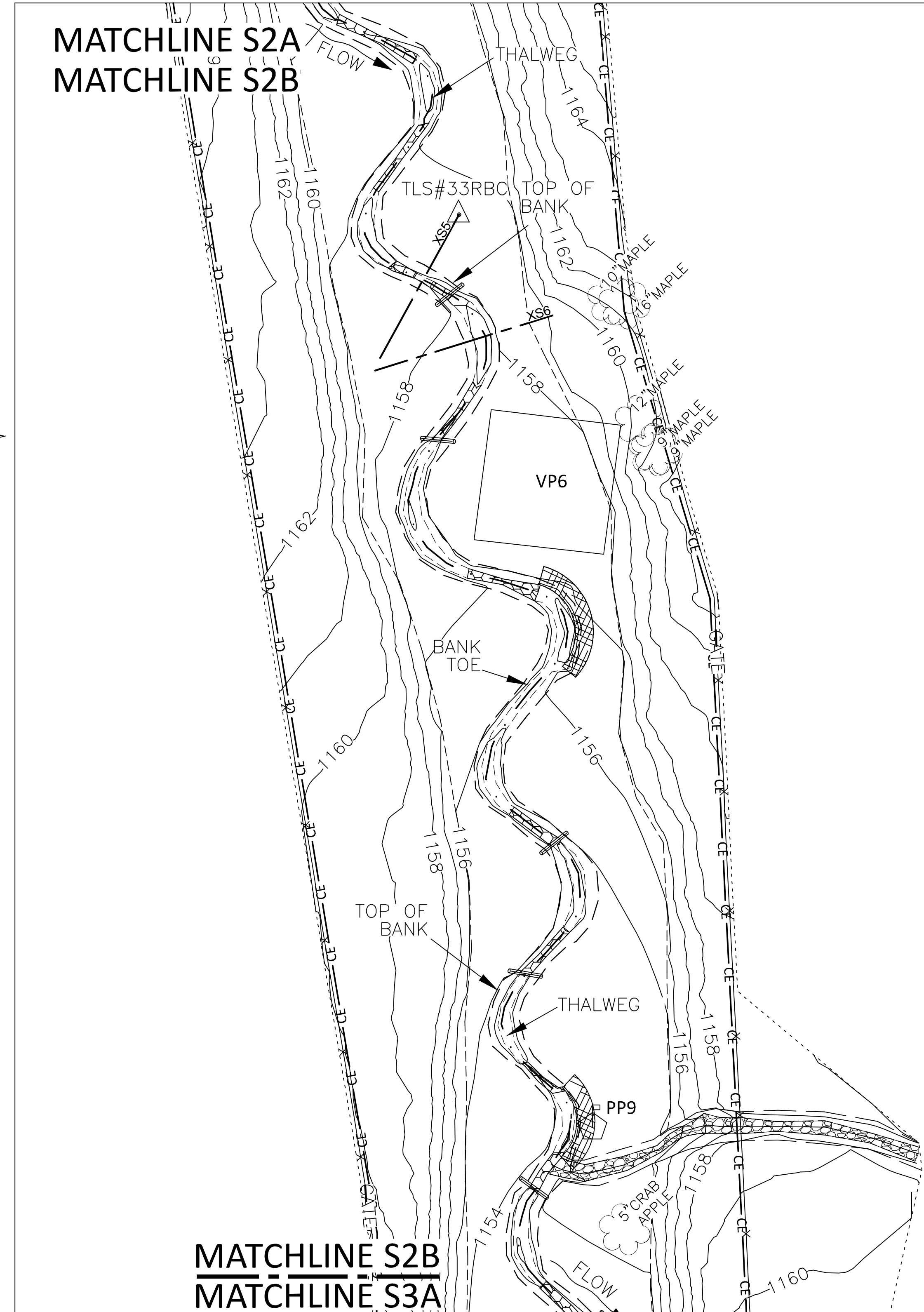
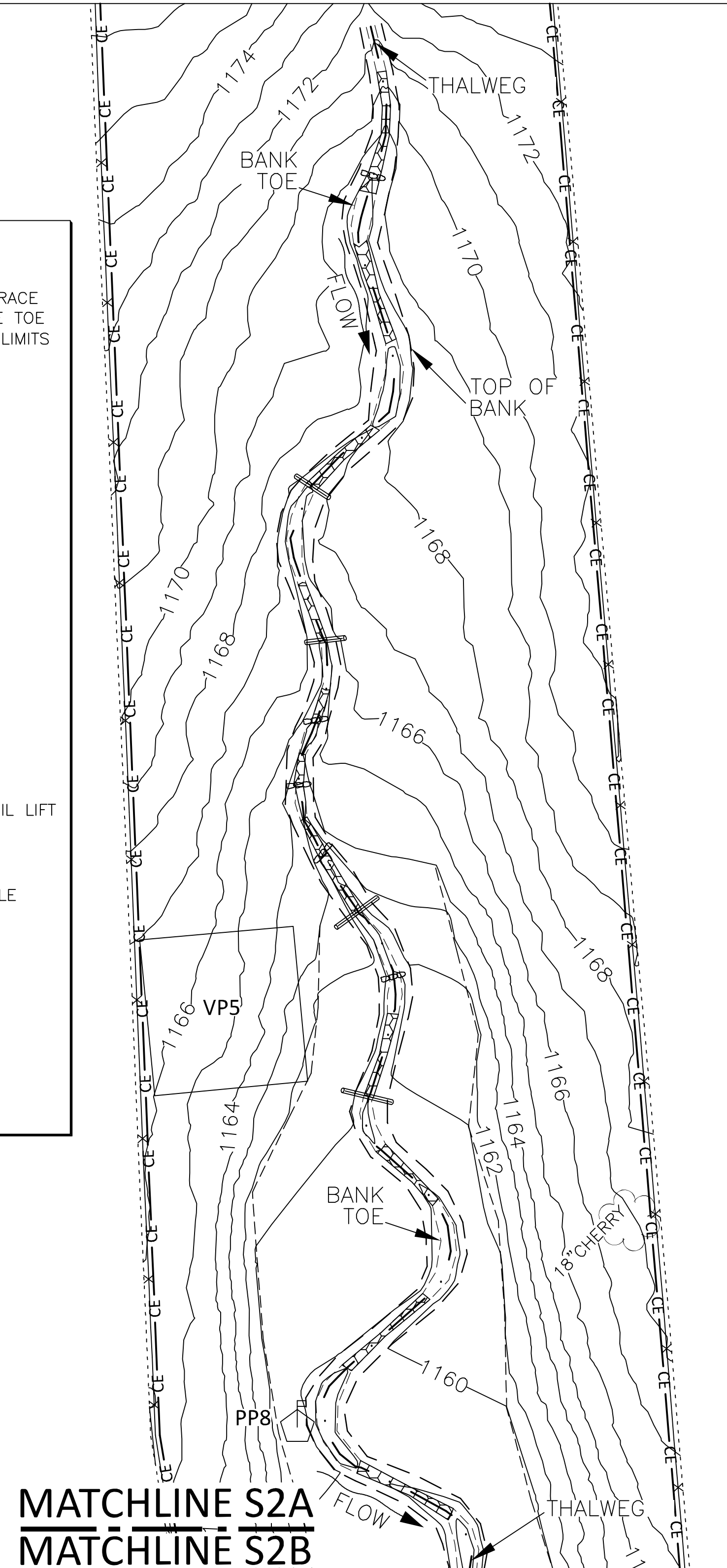
# HUNTSMAN STREAM MITIGATION SITE AS-BUILT

## SHEET 2A

## SHEET 2B

**LEGEND:**

	THALWEG
	TOP OF BANK/TERRACE
	BANK TOE/TERRACE TOE
	AS-BUILT SURVEY LIMITS
	FARM PATH
	FENCELINE
	GATE
	CONTOURS
	TREELINE
	TREE
	GRAVEL
	RIPRAP/STONE
	BEDROCK
	LOG SILL
	ROCK SILL
	J-HOOK LOG SILL
	ROOTWAD
	BRUSH TOE W/ SOIL LIFT
	VEGETATED LIFT
	CONSTRUCTED RIFFLE
	MONITORING CROSS-SECTION
	VEG PLOT
	MOBILE VEG PLOT
	PHOTO POINT
	STREAM GAUGE
	CONTROL POINT



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AS-BUILT SURVEY FOR:

**HUNTSMAN STREAM  
 MITIGATION SITE**

NORTH CAROLINA

WILKES COUNTY

NEW CASTLE TOWNSHIP

DATE: 6/17/20212

SURVEYED BY: DST/LDS

DRAWN BY: EGT/DST

REVIEWED BY: DST/EGT

PROJECT: 19-030

FILE: HUNTSMAN MS\_AB\_FD.WG

SCALE: AS SHOWN

SHEET 2 of 10

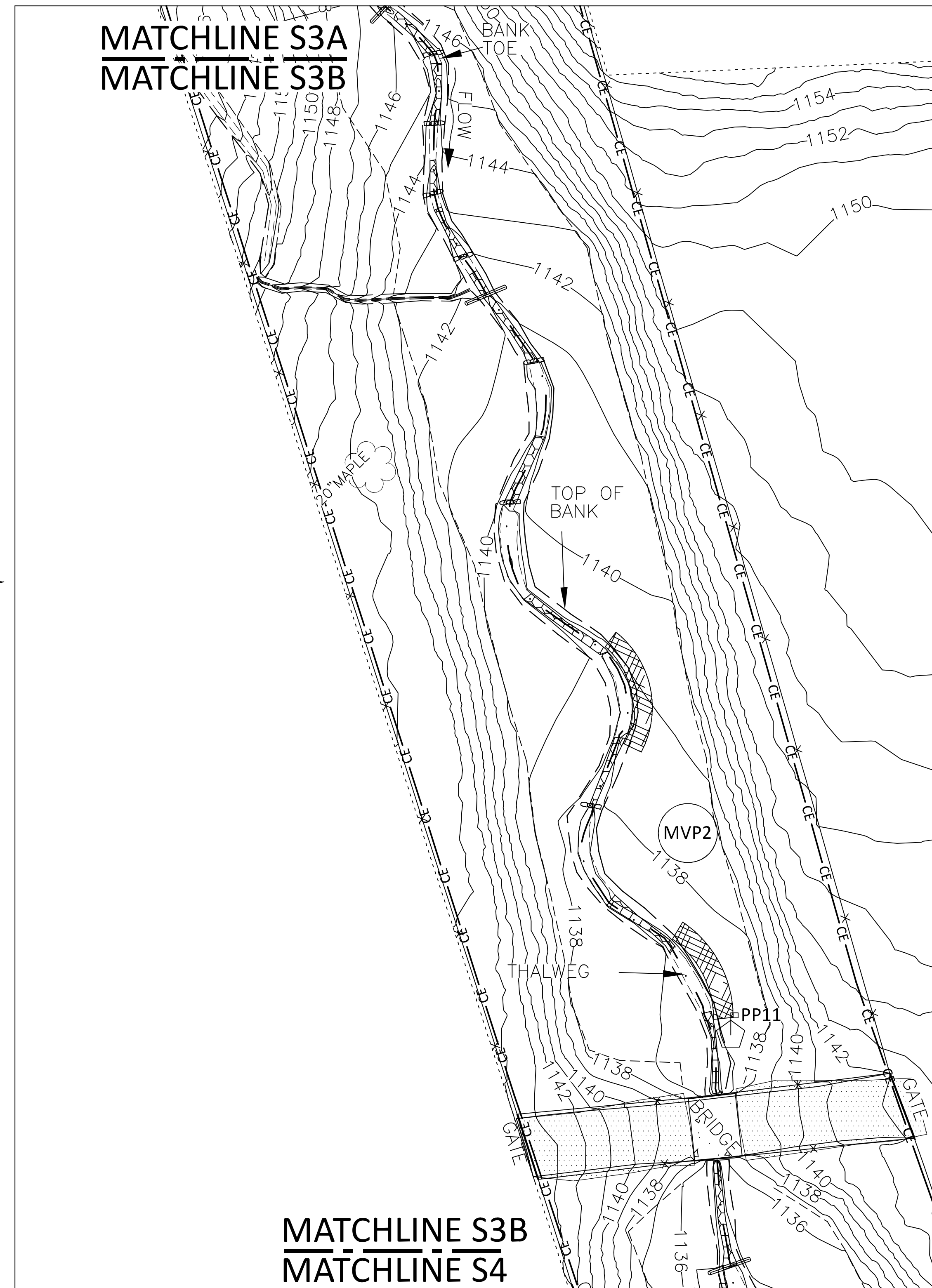
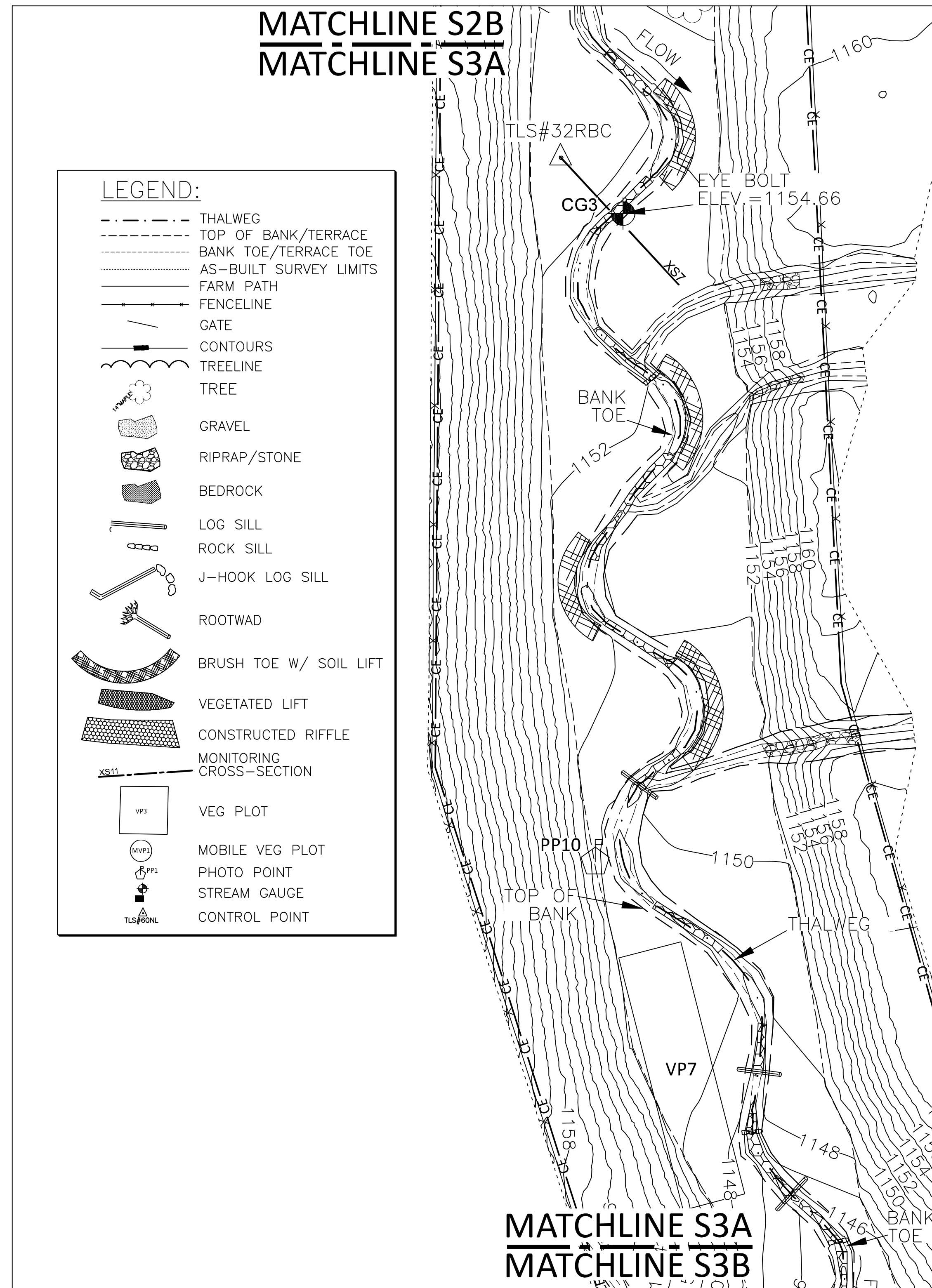


GENERAL NOTES:  
 1. SEE SHEET 1 FOR CERTIFICATIONS.  
 2. SEE SHEET 1 FOR GENERAL NOTES

# HUNTSMAN STREAM MITIGATION SITE AS-BUILT

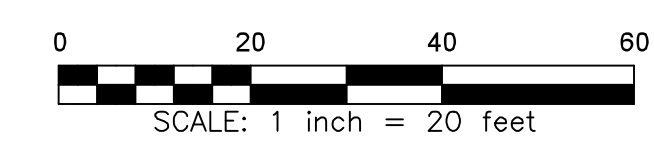
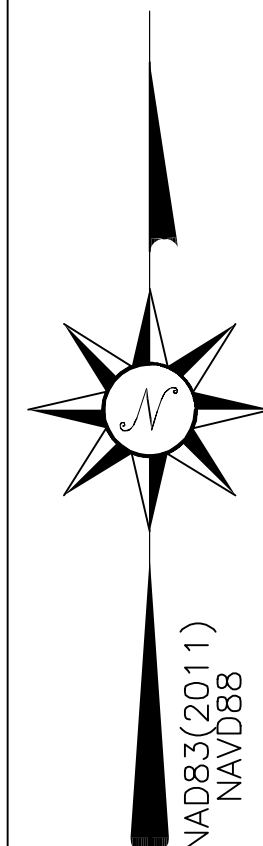
## SHEET 3A

## SHEET 3B



**LEGEND:**

	THALWEG
	TOP OF BANK/TERRACE
	BANK TOE/TERRACE TOE
	AS-BUILT SURVEY LIMITS
	FARM PATH
	FENCELINE
	GATE
	CONTOURS
	TREELINE
	TREE
	GRAVEL
	RIPRAP/STONE
	BEDROCK
	LOG SILL
	ROCK SILL
	J-HOOK LOG SILL
	ROOTWAD
	BRUSH TOE W/ SOIL LIFT
	VEGETATED LIFT
	CONSTRUCTED RIFFLE
	MONITORING CROSS-SECTION
	VEG PLOT
	MOBILE VEG PLOT
	PHOTO POINT
	STREAM GAUGE
	CONTROL POINT



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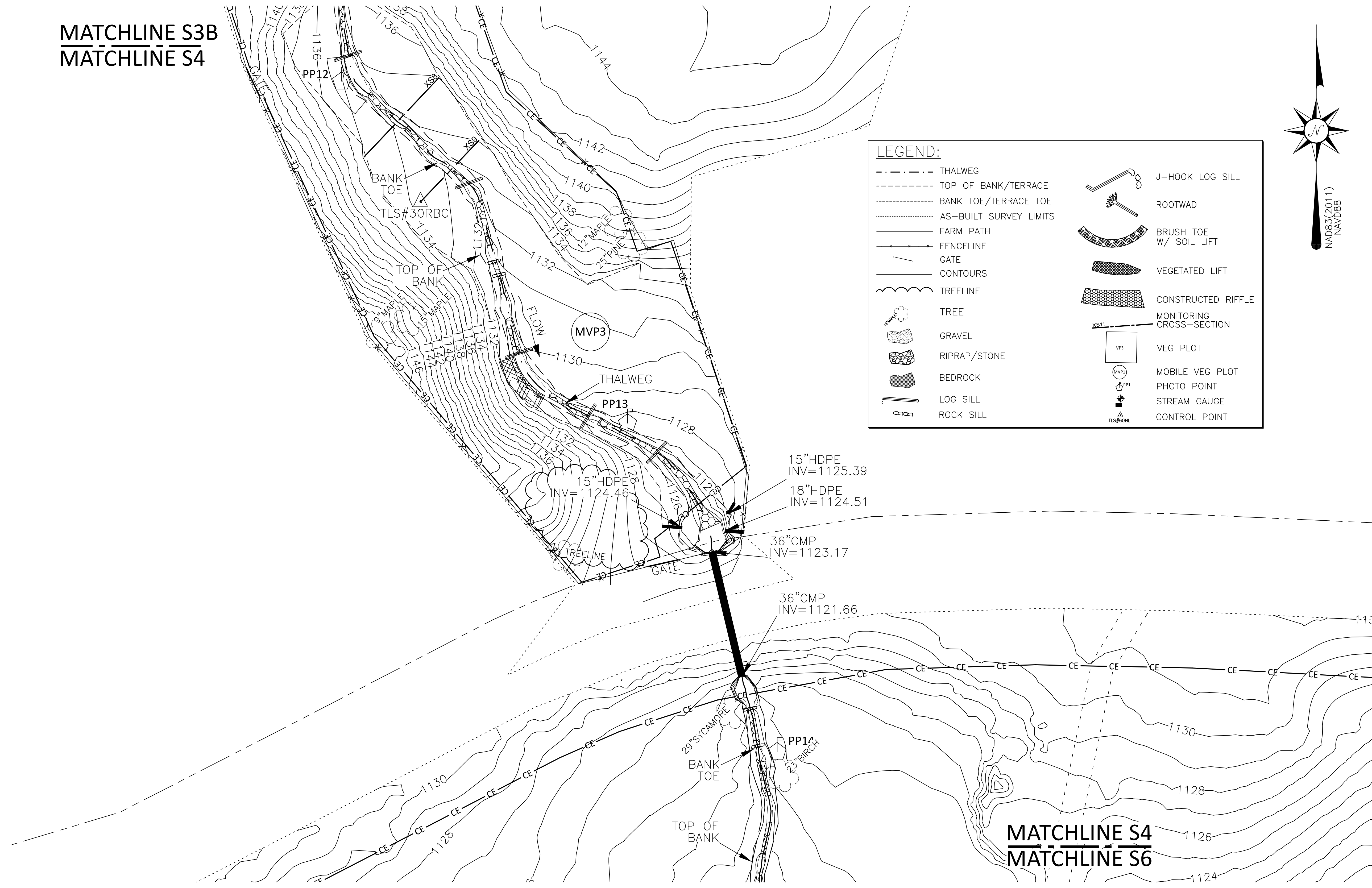
SHEET 3 of 10



GENERAL NOTES:  
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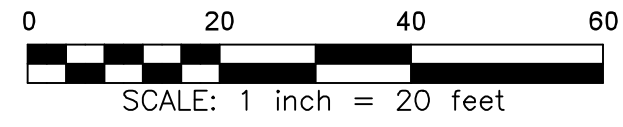
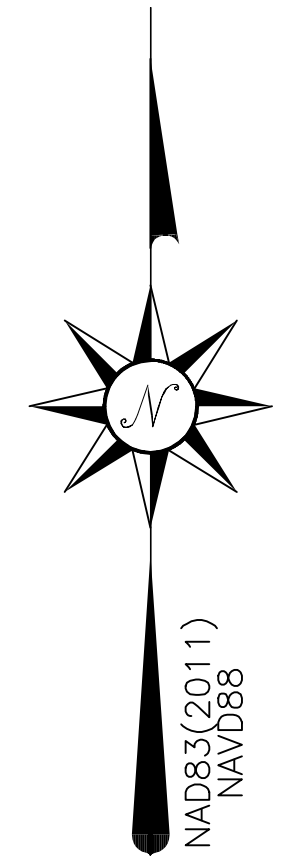
# HUNTSMAN STREAM MITIGATION SITE AS-BUILT

MATCHLINE S3B  
 MATCHLINE S4



**LEGEND:**

--- THALWEG	J-HOOK LOG SILL
--- TOP OF BANK/TERRACE	ROOTWAD
--- BANK TOE/TERRACE TOE	BRUSH TOE W/ SOIL LIFT
--- AS-BUILT SURVEY LIMITS	VEGETATED LIFT
--- FARM PATH	CONSTRUCTED RIFFLE
--- FENCELINE	MONITORING CROSS-SECTION
--- GATE	VEG PLOT
--- CONTOURS	MOBILE VEG PLOT
--- TREELINE	PHOTO POINT
TREE	STREAM GAUGE
GRAVEL	CONTROL POINT
RIPRAP/STONE	
BEDROCK	
LOG SILL	
ROCK SILL	



MATCHLINE S4  
 MATCHLINE S6

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 SCALE: AS SHOWN

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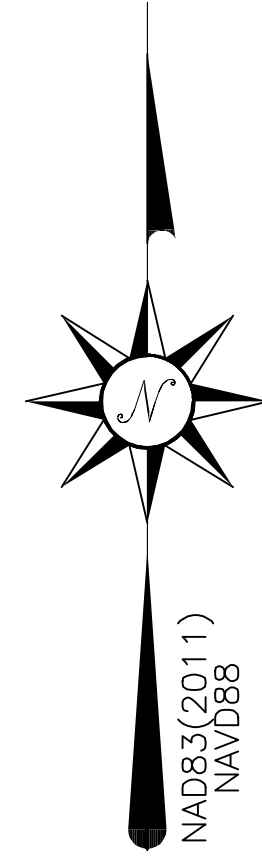
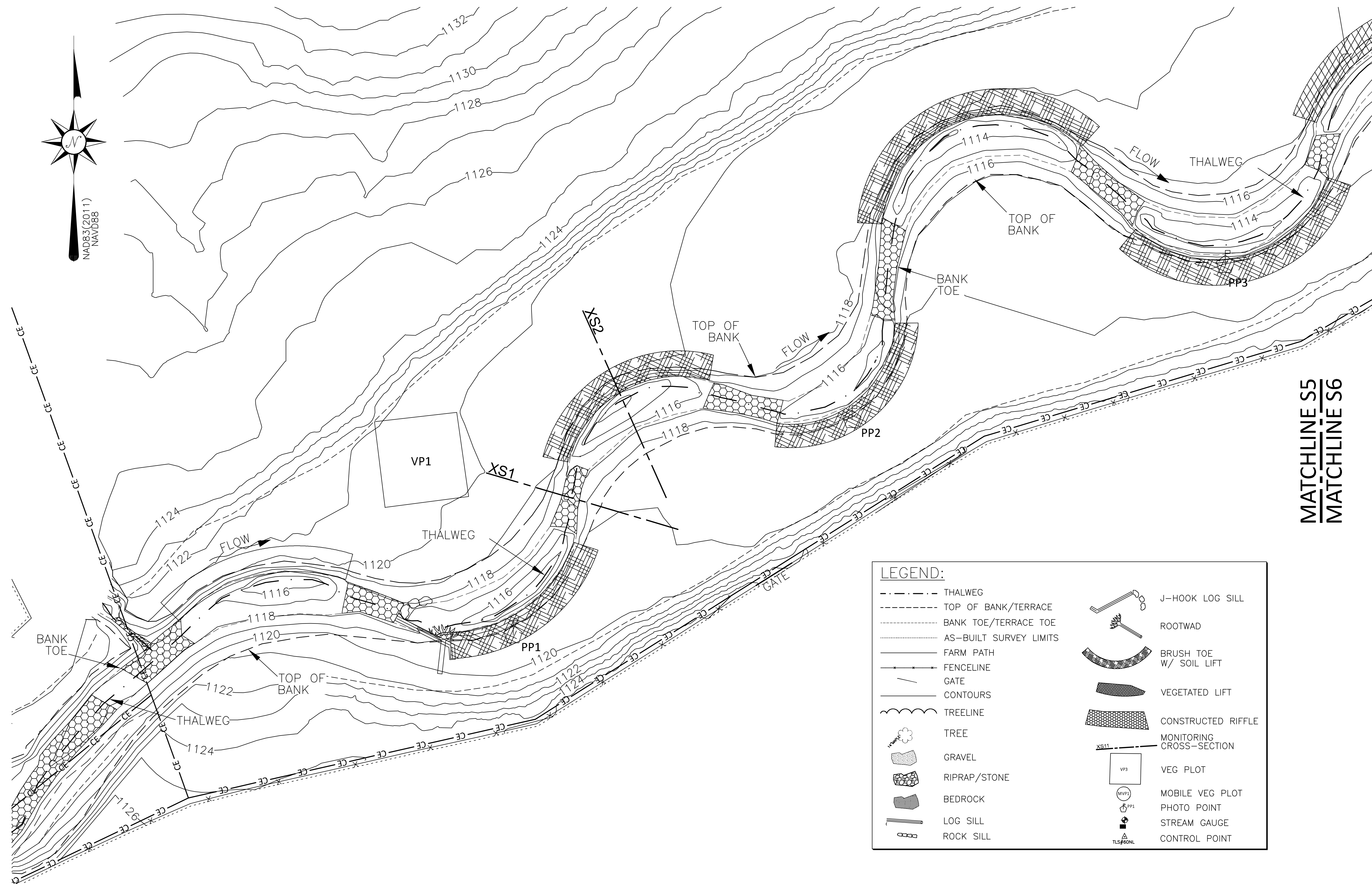
**TURNER**  
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SHEET  
**4 of 10**



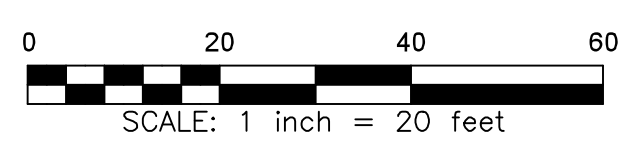
GENERAL NOTES:  
 1. SEE SHEET 1 FOR CERTIFICATIONS.  
 2. SEE SHEET 1 FOR GENERAL NOTES

# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



**LEGEND:**

--- THALWEG	--- J-HOOK LOG SILL
- - - TOP OF BANK/TERRACE	--- ROOTWAD
- - - BANK TOE/TERRACE TOE	--- BRUSH TOE W/ SOIL LIFT
--- AS-BUILT SURVEY LIMITS	--- VEGETATED LIFT
--- FARM PATH	--- CONSTRUCTED RIFFLE
--- FENCELINE	--- MONITORING CROSS-SECTION
--- GATE	--- VEG PLOT
--- CONTOURS	--- MOBILE VEG PLOT
--- TREE LINE	--- PHOTO POINT
--- TREE	--- STREAM GAUGE
--- GRAVEL	--- CONTROL POINT
--- RIPRAP/STONE	
--- BEDROCK	
--- LOG SILL	
--- ROCK SILL	



**MATCHLINE S5**  
**MATCHLINE S6**

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 SCALE: AS SHOWN

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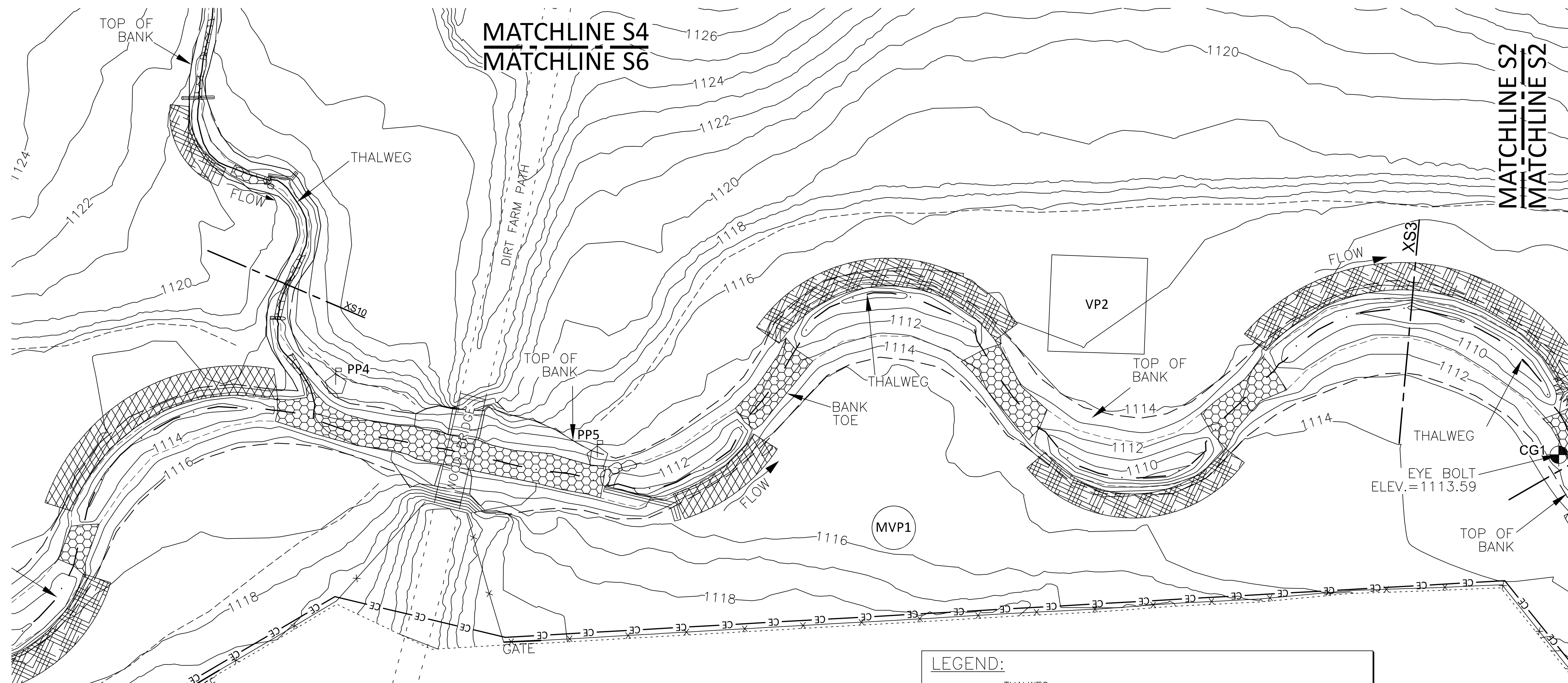
SHEET **5 of 10**

THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.

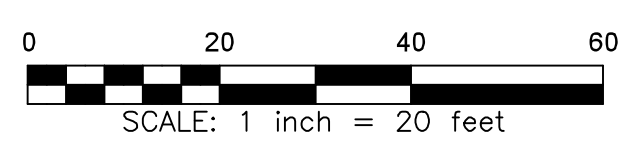
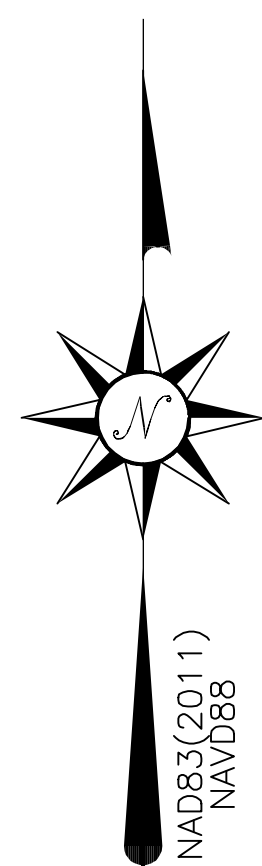


GENERAL NOTES:  
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# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



MATCHLINE S5  
 MATCHLINE S6



LEGEND:			
--- (dashed line)	THALWEG		J-HOOK LOG SILL
--- (dashed line)	TOP OF BANK/TERRACE		ROOTWAD
--- (dashed line)	BANK TOE/TERRACE TOE		BRUSH TOE W/ SOIL LIFT
--- (dotted line)	AS-BUILT SURVEY LIMITS		VEGETATED LIFT
--- (solid line)	FARM PATH		CONSTRUCTED RIFFLE
--- (solid line)	FENCELINE		MONITORING CROSS-SECTION
--- (solid line)	GATE		VEG PLOT
--- (solid line)	CONTOURS		MOBILE VEG PLOT
--- (wavy line)	TREELINE		PHOTO POINT
	TREE		STREAM GAUGE
	GRAVEL		CONTROL POINT
	RIPRAP/STONE		
	BEDROCK		
	LOG SILL		
	ROCK SILL		

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WILKES COUNTY

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FILE: HUNTSMAN MS\_AB\_FD.WG

SCALE: AS SHOWN

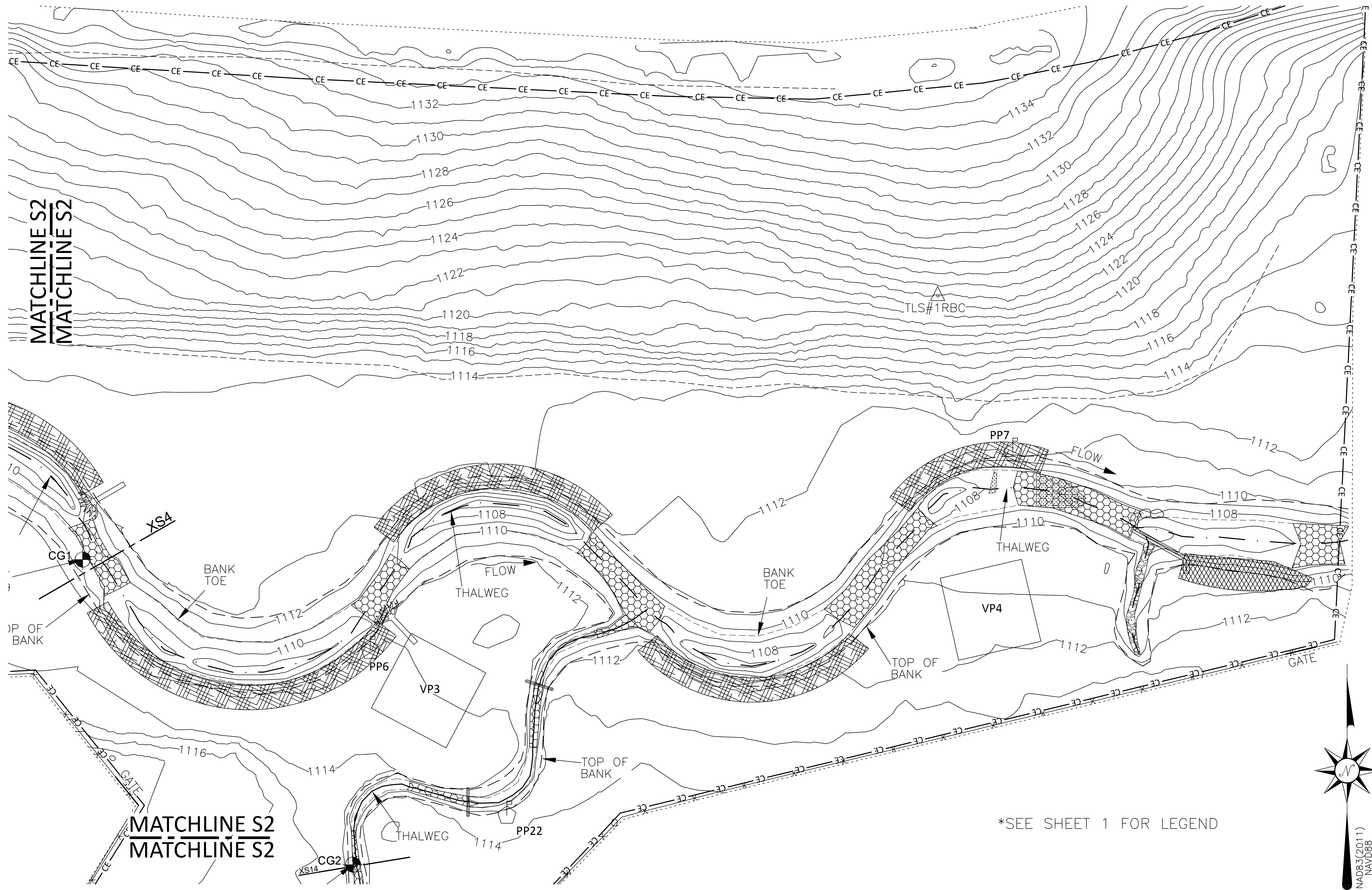
SHEET  
 6 of 10

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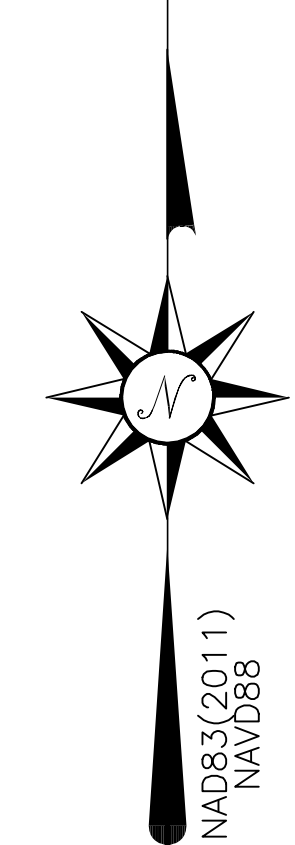
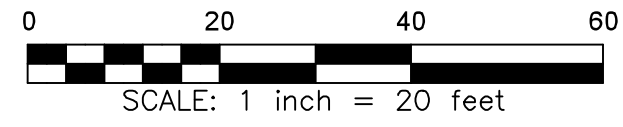


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# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



\*SEE SHEET 1 FOR LEGEND



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PROJECT:	19-030
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SCALE:	AS SHOWN

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**7 of 10**

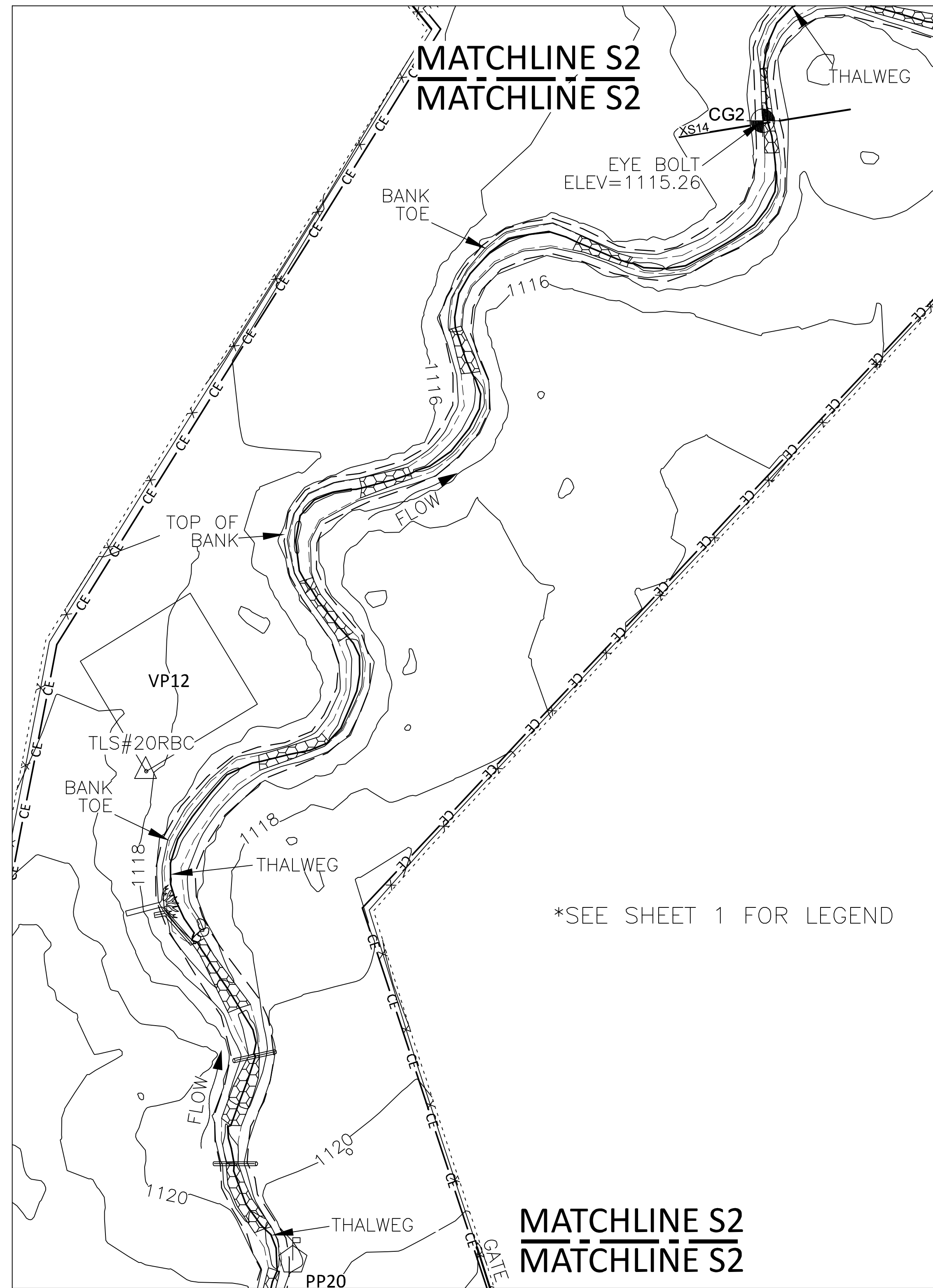
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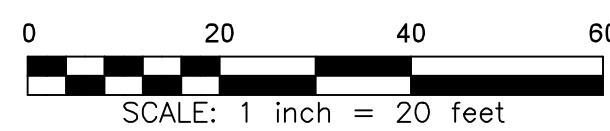
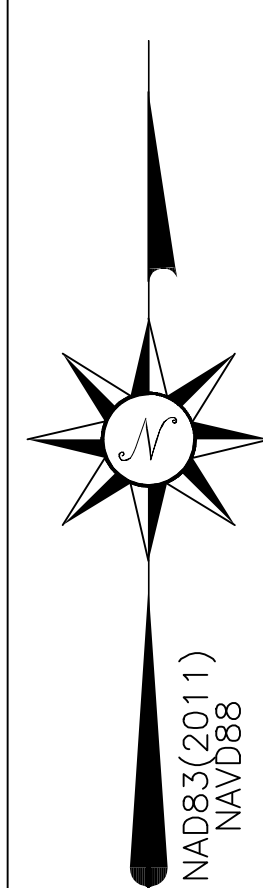
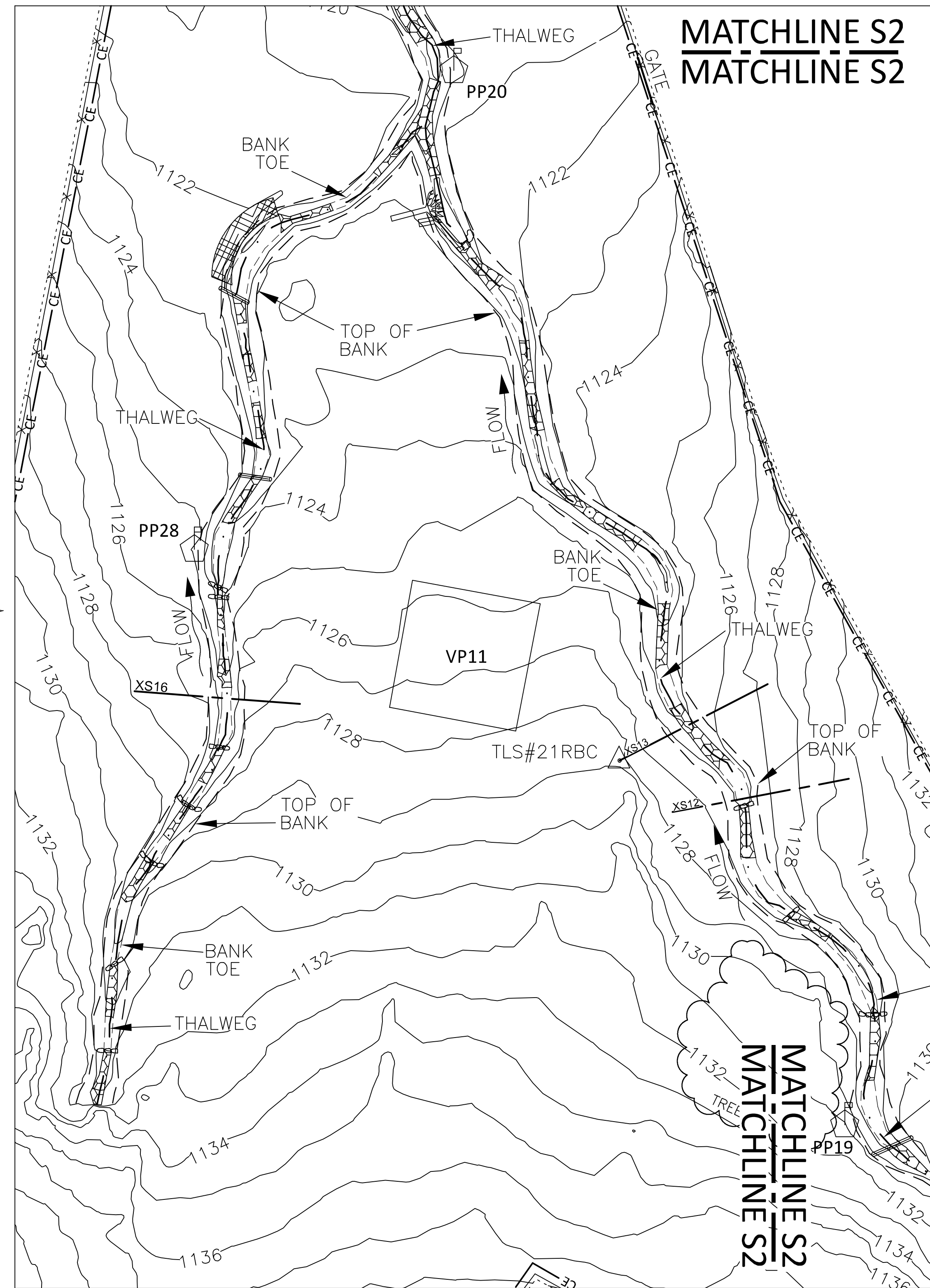
- GENERAL NOTES:  
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# HUNTSMAN STREAM MITIGATION SITE AS-BUILT

## SHEET 8A



## SHEET 8B



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FILE: HUNTSMAN MS\_AB\_FD.WG

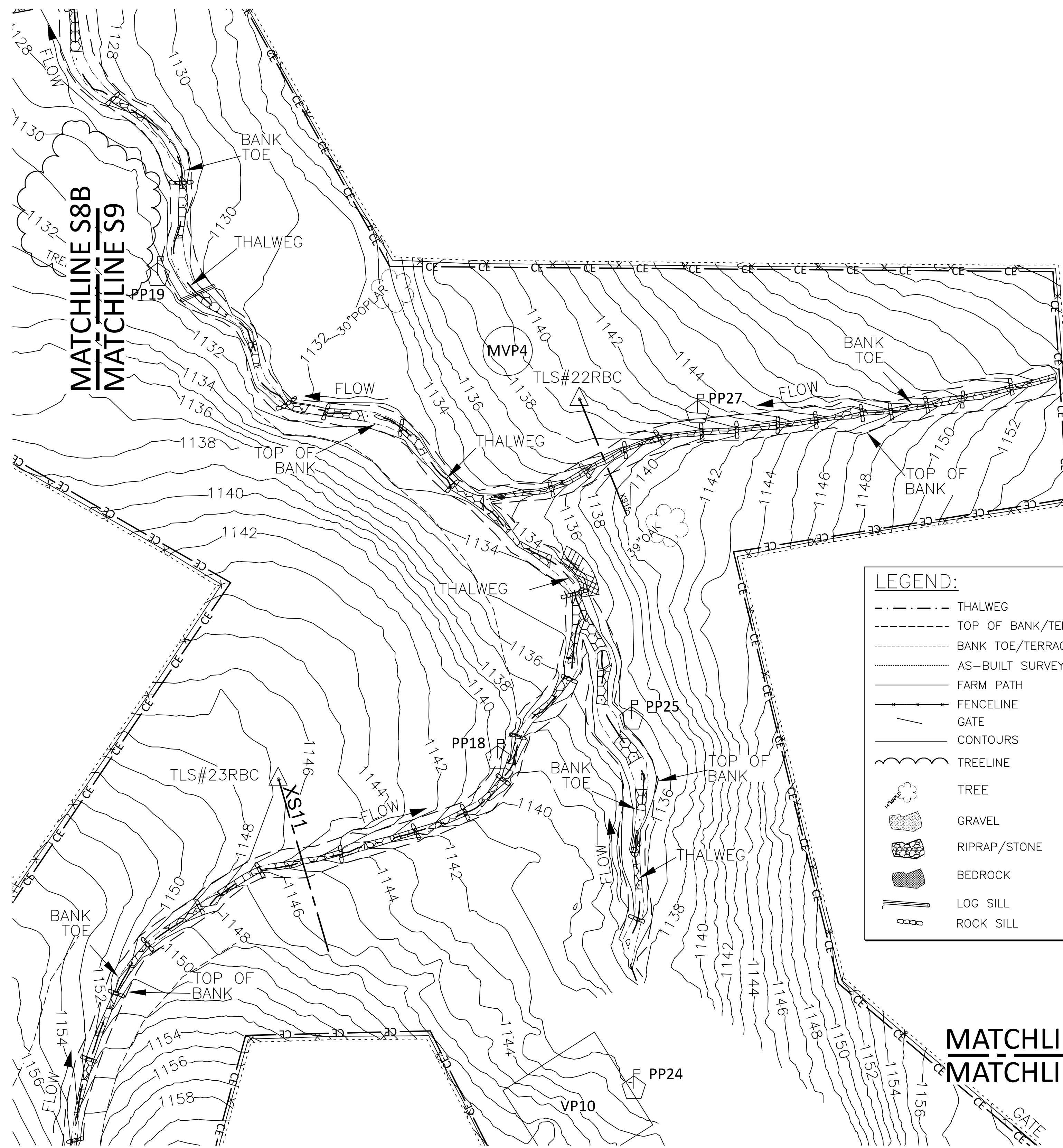
SCALE: AS SHOWN

SHEET  
**8 of 10**



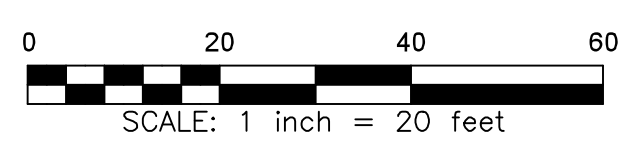
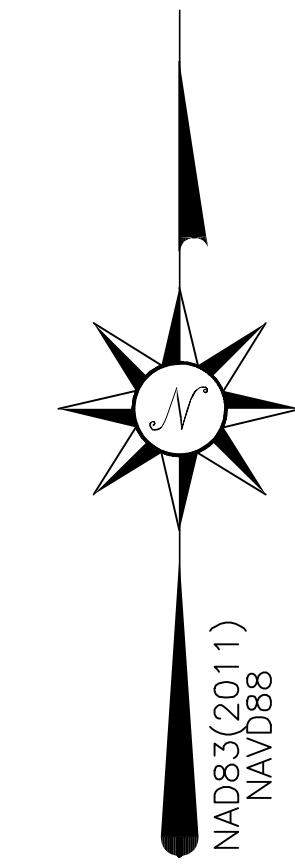
GENERAL NOTES:  
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# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



**LEGEND:**

--- THALWEG	J-HOOK LOG SILL
- - - TOP OF BANK/TERRACE	ROOTWAD
..... BANK TOE/TERRACE TOE	BRUSH TOE W/ SOIL LIFT
--- AS-BUILT SURVEY LIMITS	VEGETATED LIFT
--- FARM PATH	CONSTRUCTED RIFFLE
--- FENCELINE	MONITORING CROSS-SECTION
--- GATE	VEG PLOT
--- CONTOURS	MOBILE VEG PLOT
TREE	PHOTO POINT
GRAVEL	STREAM GAUGE
RIPRAP/STONE	CONTROL POINT
BEDROCK	
LOG SILL	
ROCK SILL	



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AS-BUILT SURVEY FOR:

## HUNTSMAN STREAM MITIGATION SITE

NORTH CAROLINA  
 WILKES COUNTY  
 NEW CASTLE TOWNSHIP

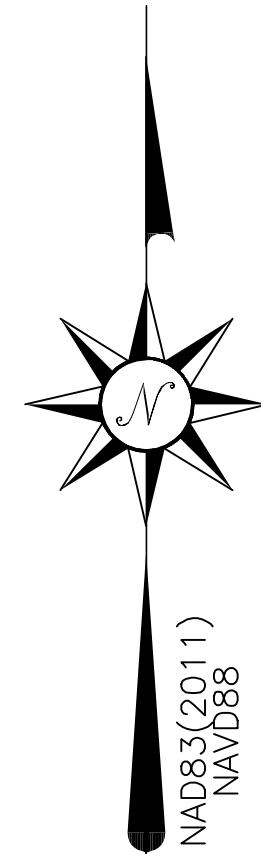
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SURVEYED BY:	DST/LDS
DRAWN BY:	EGT/DST
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PROJECT:	19-030
FILE:	HUNTSMAN MS_AB_F.DWG
SCALE:	AS SHOWN

SHEET  
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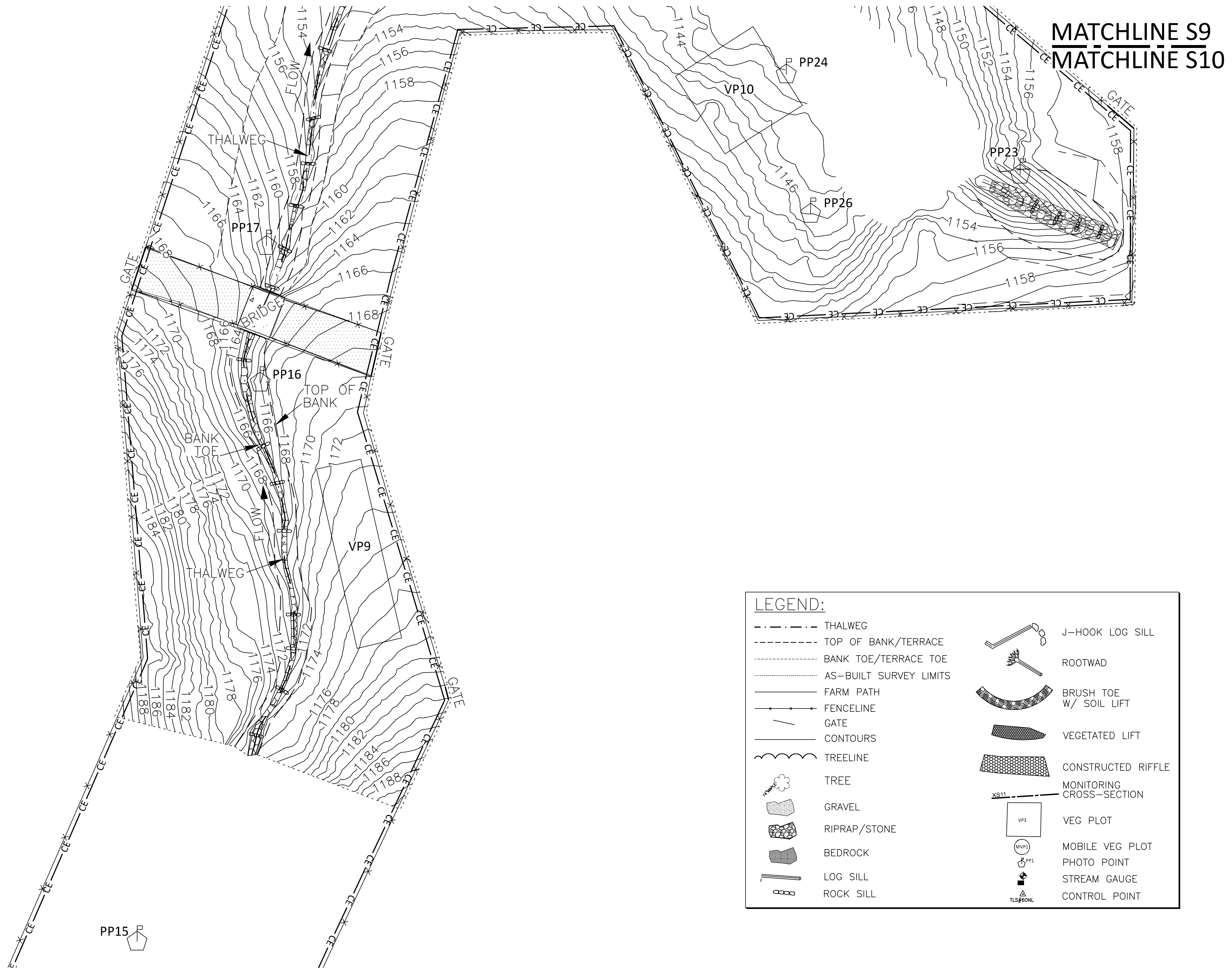
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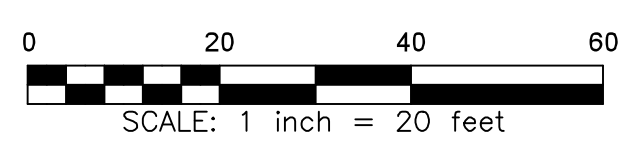
# HUNTSMAN STREAM MITIGATION SITE AS-BUILT



MATCHLINE S9  
 MATCHLINE S10

**LEGEND:**

--- THALWEG	J-HOOK LOG SILL
--- TOP OF BANK/TERRACE	ROOTWAD
--- BANK TOE/TERRACE TOE	BRUSH TOE W/ SOIL LIFT
--- AS-BUILT SURVEY LIMITS	VEGETATED LIFT
--- FARM PATH	CONSTRUCTED RIFFLE
--- FENCELINE	MONITORING CROSS-SECTION
--- GATE	VEG PLOT
--- CONTOURS	MOBILE VEG PLOT
--- TREELINE	PHOTO POINT
TREE	STREAM GAUGE
GRAVEL	CONTROL POINT
RIPRAP/STONE	
BEDROCK	
LOG SILL	
ROCK SILL	



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SHEET **10 of 10**

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