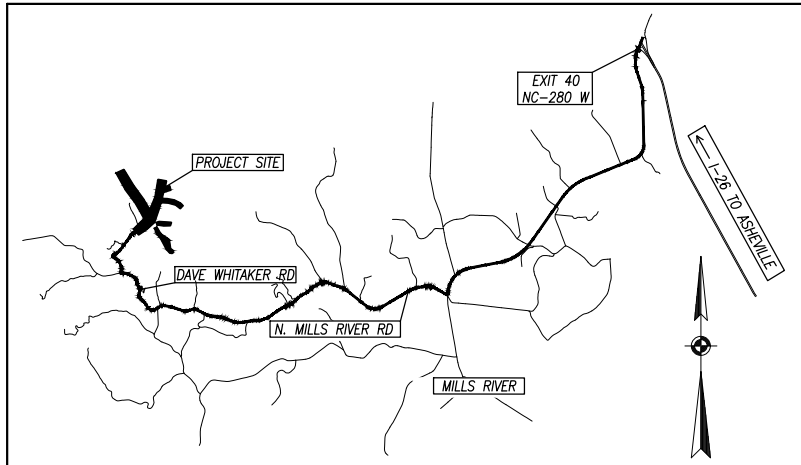


NC DMS PROJECT #100017

EW SOLUTIONS, LLC

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	172621103	AB-1	17



VICINITY MAP  
NOT TO SCALE

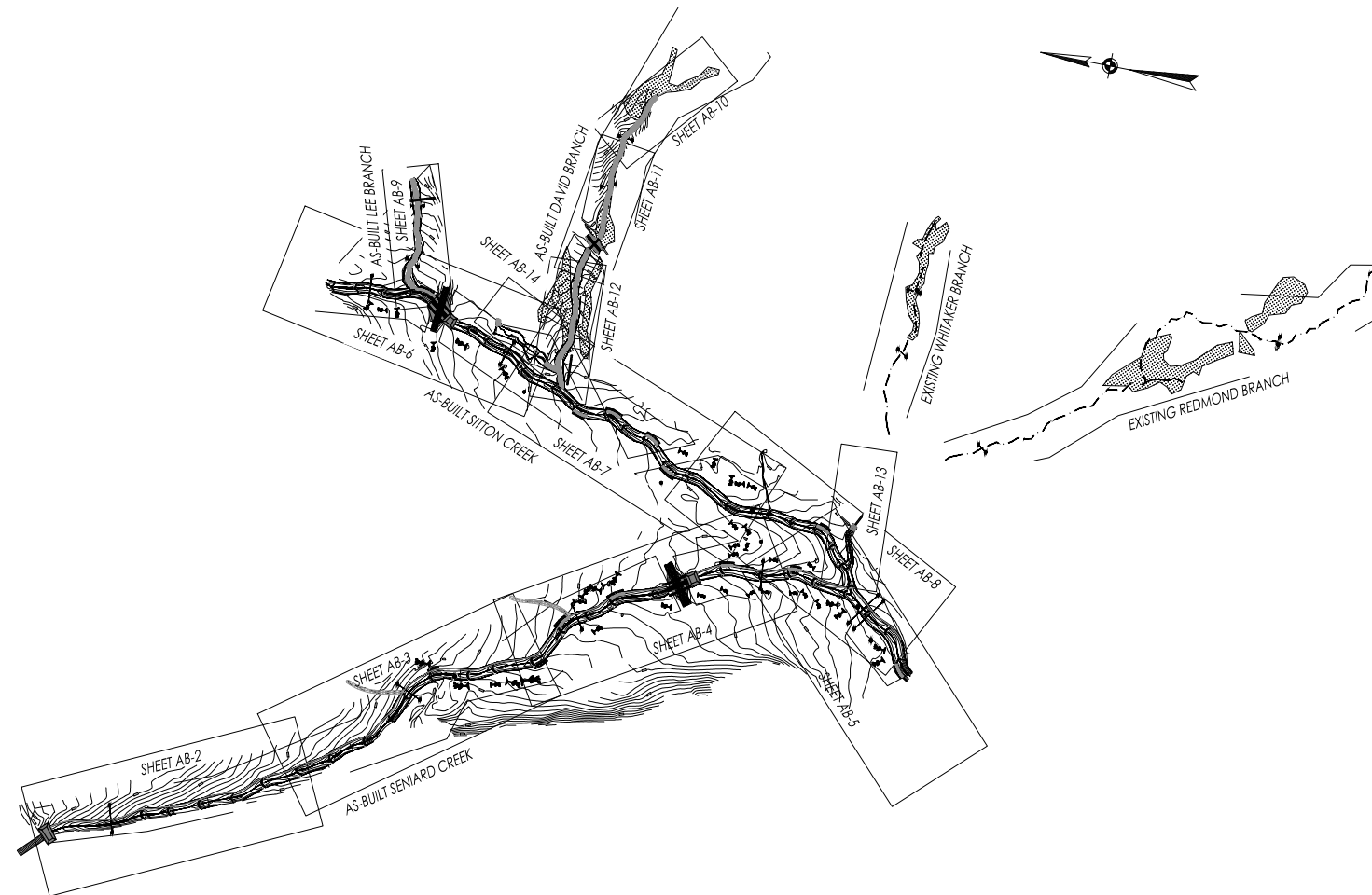
# SENIARD CREEK MITIGATION PROJECT

SENIARD CREEK  
HENDERSON COUNTY, NORTH CAROLINA

FINAL PLANS		DATE	APPROVED
1	SHEETS 1, EC-1, EC-2A	5/22/20	CME
2	SHEETS 1, 2, 3, 4, 6-11, 14-16, P-1, P-2, EC-1, EC-2, EC-4	7/14/20	CME
3	SHEETS 1, EC-1, EC-4	8/10/20	CME
1	<b>AS - BUILT PLANS - RECORD SET</b>	4/02/21	CME
1	SHEETS 1, 1A, 4-14, P-1, P-2	5/17/21	CME

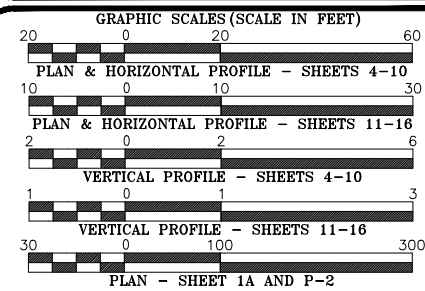
REV.	DESCRIPTION	DATE	APPROVED
REVISIONS			



**SHEET INDEX**

SHEET NO.	DESCRIPTION
AB-1	TITLE SHEET
AB-1A	SITE PLAN
AB-2-AB-14	PLAN AND PROFILE
AB-P-1	PLANTING NOTES
AB-P-2	PLANTING PLAN

NO SIGNIFICANT  
DEVIATIONS FROM DESIGN  
AS-BUILT PLANS



**PROJECT LENGTHS**

<b>AS-BUILT RESTORATION:</b>	
SENIARD CREEK	= 1,783 FT
SITTON CREEK	= 1,079 FT
DAVID BRANCH	= 524 FT
LEE BRANCH	= 215 FT
REDMOND BRANCH	= 83 FT
<b>AS-BUILT ENHANCEMENT:</b>	
WHITAKER BRANCH	= 426 FT
REDMOND BRANCH	= 1,054 FT
<b>AS-BUILT PRESERVATION:</b>	
DAVID BRANCH	= 132 FT
<b>TOTAL LENGTH</b>	<b>= 5,265 FT</b>

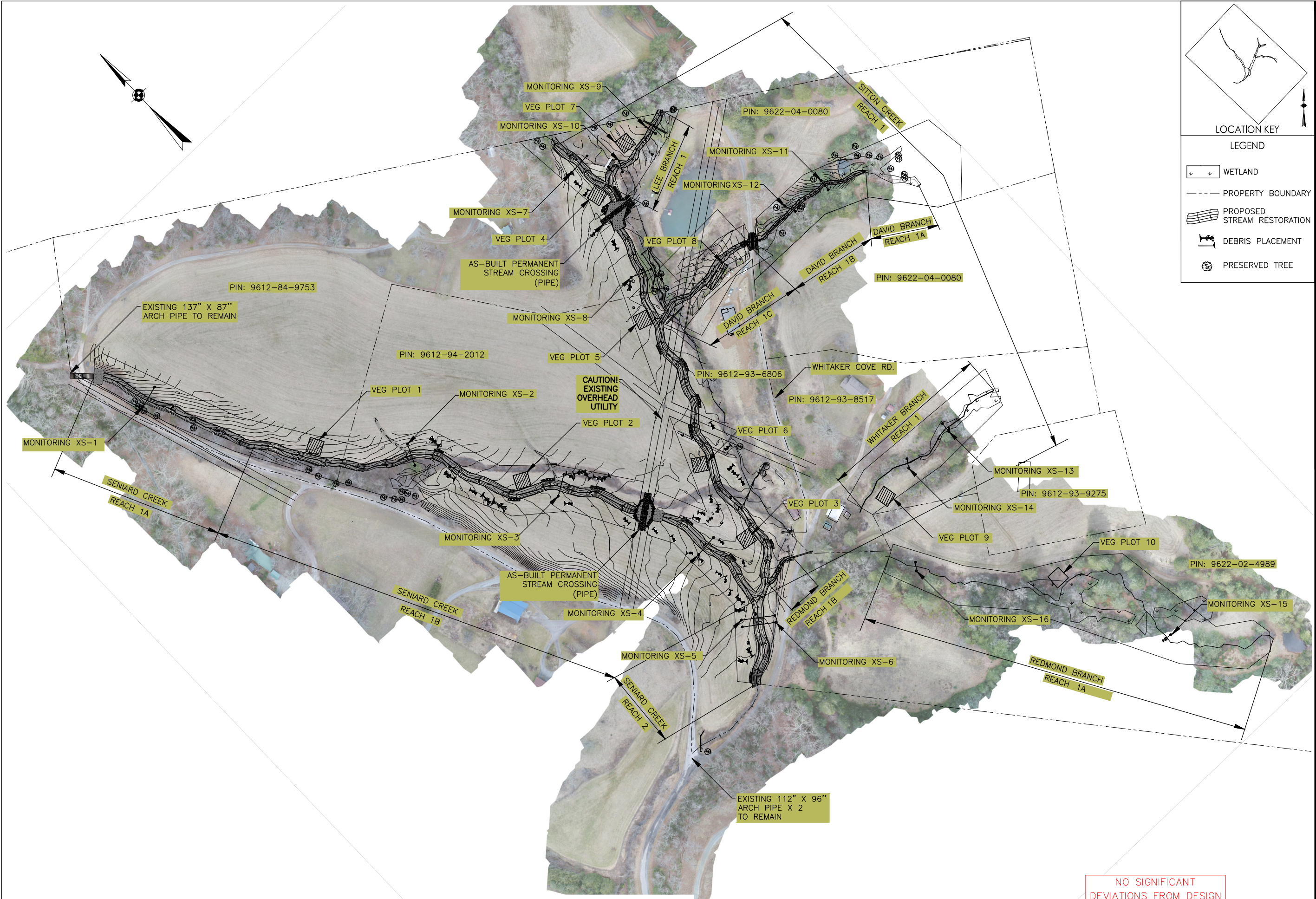
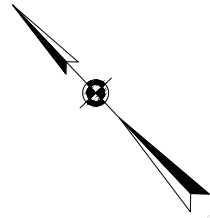
Prepared by:

Stantec Consulting Services Inc.  
56 College Street, Suite 201  
Asheville, North Carolina 28801  
www.stantec.com

PROJECT ENGINEER

Prepared for:

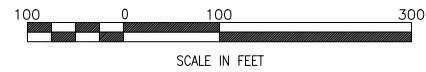
HARRY TSOMIDES  
PROJECT MANAGER



**LOCATION KEY**

**LEGEND**

- WETLAND
- PROPERTY BOUNDARY
- PROPOSED STREAM RESTORATION
- DEBRIS PLACEMENT
- PRESERVED TREE



NO SIGNIFICANT DEVIATIONS FROM DESIGN

NOTE: PROPERTY BOUNDARIES, FENCES AND UTILITIES NOT SURVEYED. APPROXIMATE LOCATIONS ONLY.

I:\172621103\172621103\_01\AS-Built\172621103-01-AS-Built.rvt  
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Revision	By	Appd.	Y/M/DD
AS-BUILT REV-1 - NO DEVIATIONS NOTE	CME	CME	21.03.17
	YY.MM.DD		

Client/Project  
 EW SOLUTIONS  
 SENIARD CREEK MITIGATION SITE  
 HENDERSON COUNTY, NORTH CAROLINA

Title  
 SITE PLAN - AS-BUILT

Permit-Seal

Project Number: 172621103

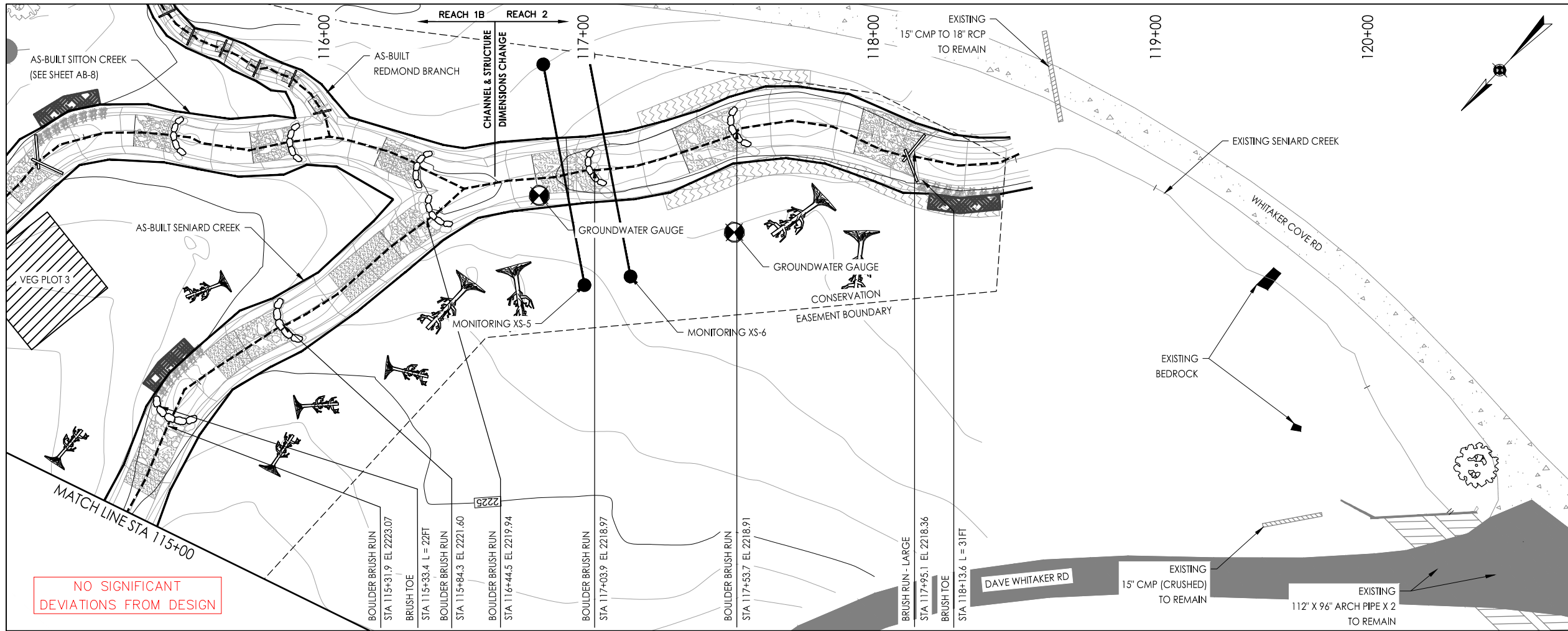
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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Revision 0 Sheet AB-1A









NO SIGNIFICANT DEVIATIONS FROM DESIGN

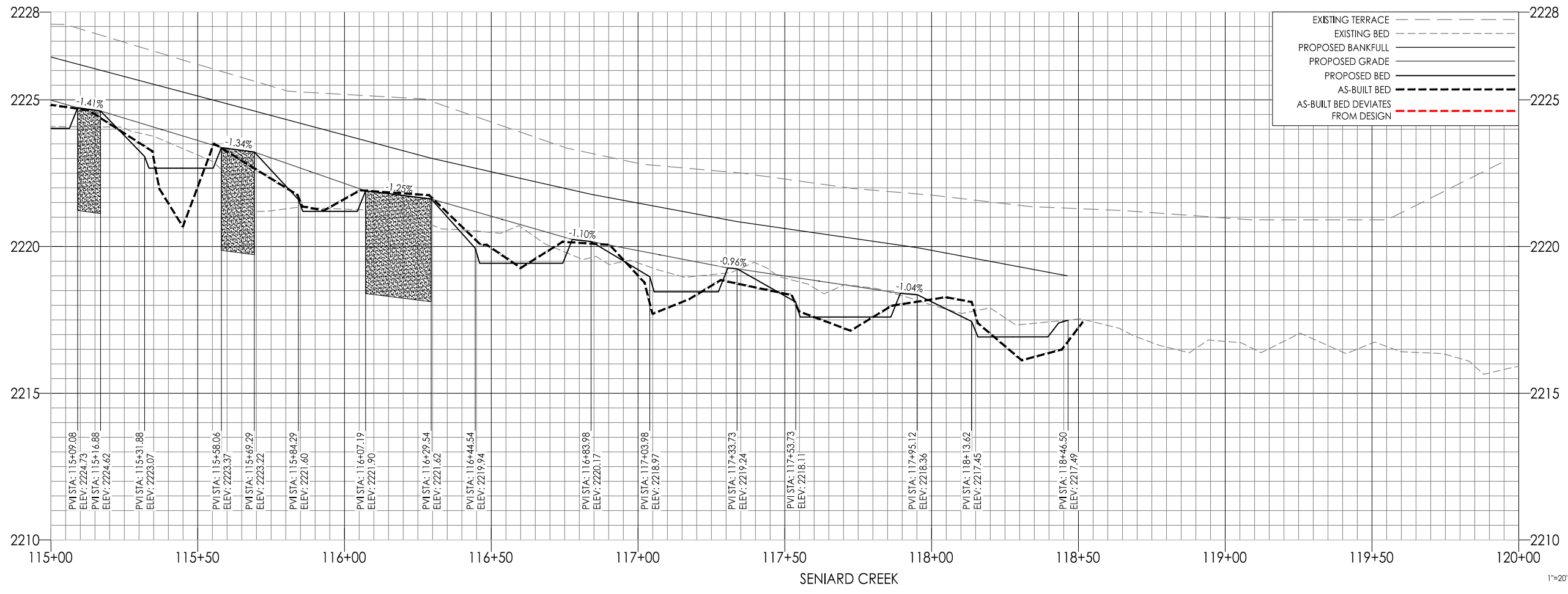
LOCATION KEY

LEGEND

- PROPOSED STREAM RESTORATION
- PROPOSED RIPRAP
- PROPOSED BRUSH ENHANCED RIFFLE
- EXISTING WETLAND

AS-BUILT LEGEND

- TOP OF BANK
- TOP OF BANK DEVIATIONS
- THALWEG
- THALWEG DEVIATIONS
- PRESERVED TREE
- DEBRIS PLACEMENT
- BRUSH TOE
- BOULDER BRUSH RUN
- BRUSH RUN - LARGE



REV.	DATE	BY	CHKD.	APPD.	TY.
20	07/14				MM/DD
21	08/17				MM/DD

Client/Project: EW SOLUTIONS, LLC

SENIARD CREEK MITIGATION SITE

HENDERSON COUNTY, NC

Permit-Seal

Project Number: 172621103

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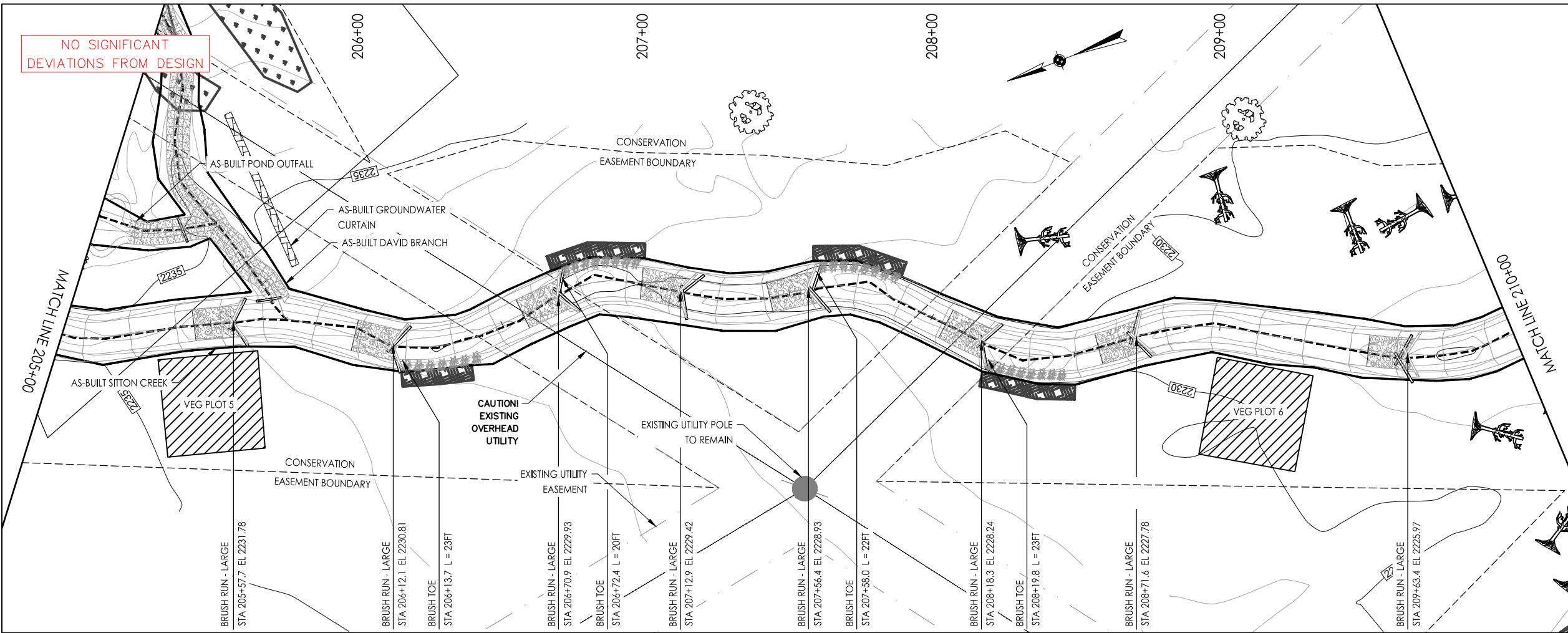
Drawing No. AB-5

Revision Sheet

2



NO SIGNIFICANT DEVIATIONS FROM DESIGN



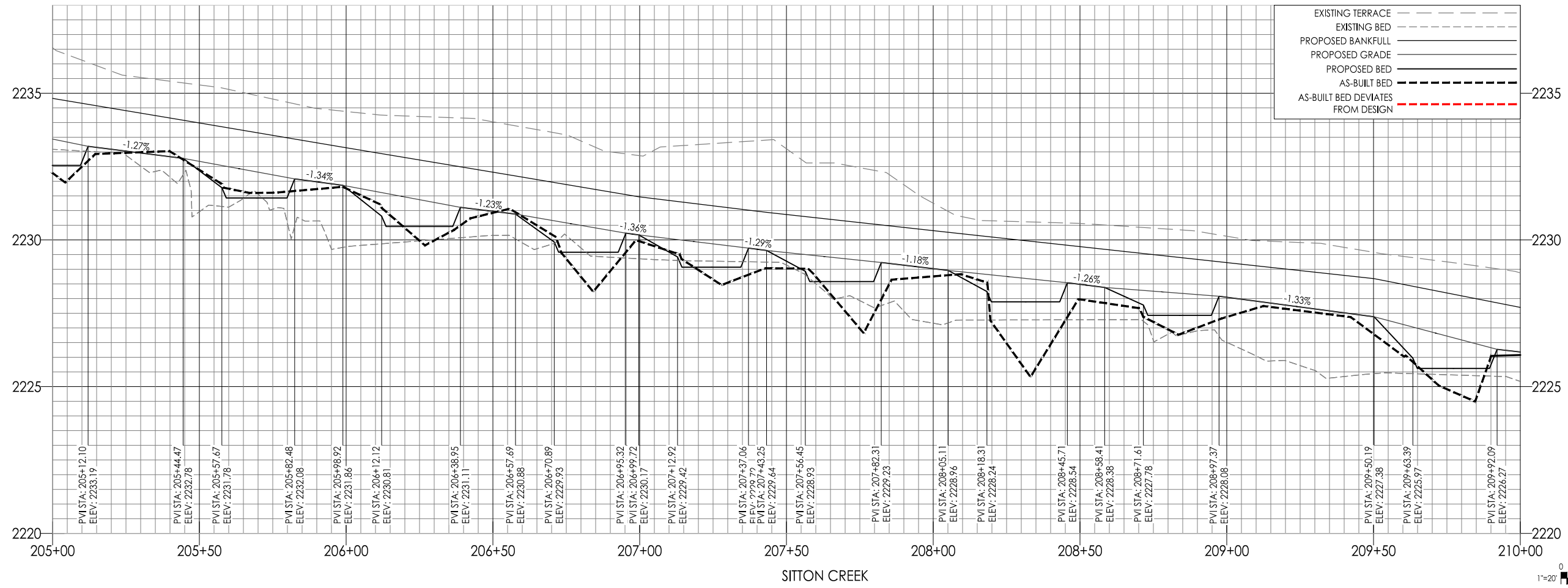
**LOCATION KEY**

**LEGEND**

- PROPOSED STREAM RESTORATION
- PROPOSED RIPRAP
- PROPOSED BRUSH ENHANCED RIFFLE
- EXISTING WETLAND

**AS-BUILT LEGEND**

- TOP OF BANK
- TOP OF BANK DEVIATIONS
- THALWEG
- THALWEG DEVIATIONS
- PRESERVED TREE
- DEBRIS PLACEMENT
- BRUSH TOE
- BOULDER BRUSH RUN
- BRUSH RUN - LARGE



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**REV. 2 LEGEND**

REV.	DATE	BY	APPD.
1	20.07.14	CHE	YY.MM.DD
2	21.05.17	CHE	YY.MM.DD

**AS-BUILT TECH - NO DEVIATIONS NOTE**

REV.	DATE	BY	APPD.
1	20.07.14	CHE	YY.MM.DD
2	21.05.17	CHE	YY.MM.DD

**Client/Project**  
EW SOLUTIONS, LLC

**Permit-Seal**

**SENIARD CREEK MITIGATION SITE**  
HENDERSON COUNTY, NC

**Title**  
SITON CREEK - PLAN & PROFILE - AS-BUILT  
205+00 - 210+00

**Project Number:** 172621103

**File Name:** PLANPRO-REV.dwg

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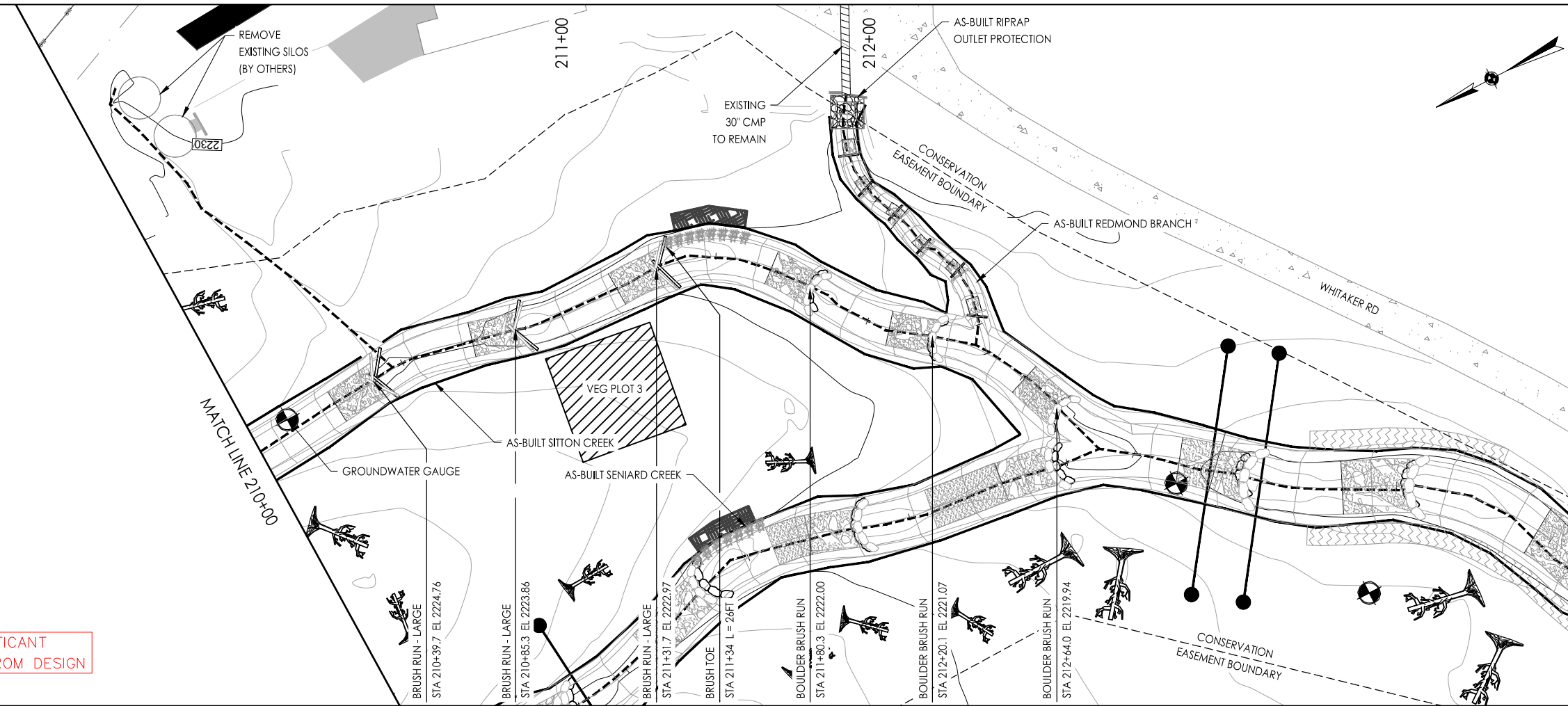
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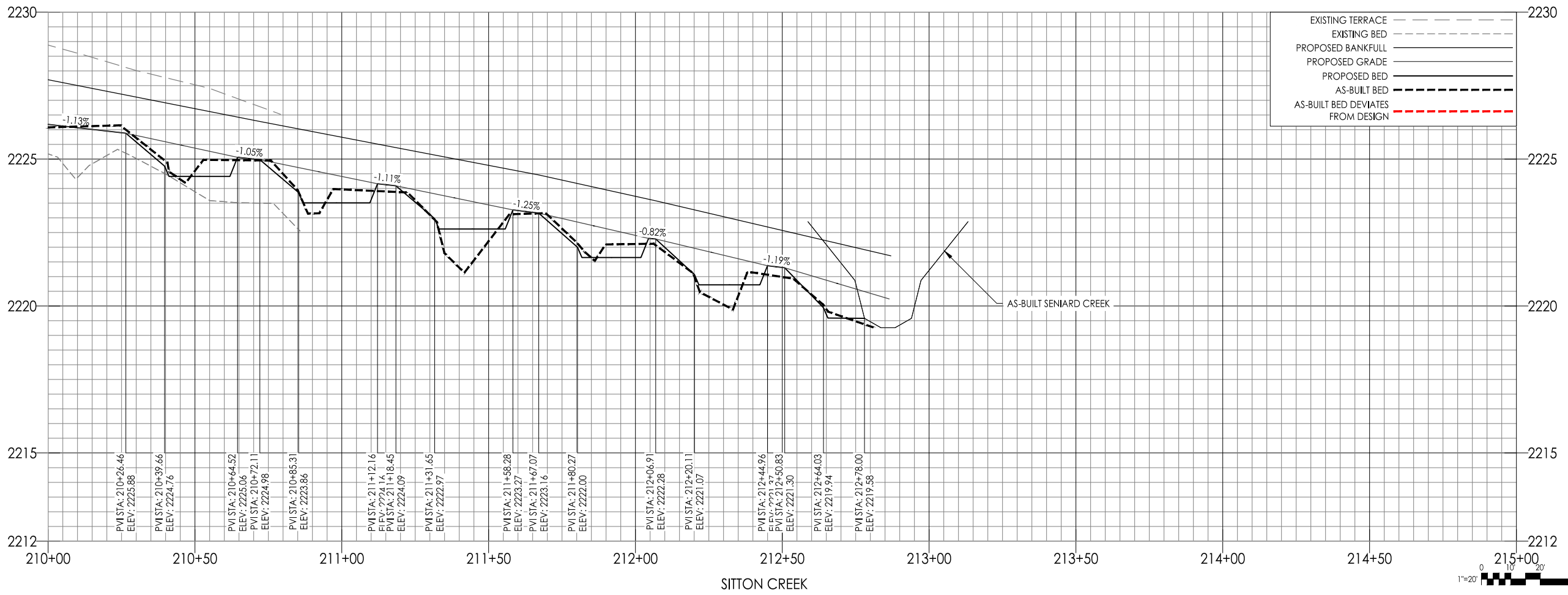
LOCATION KEY

LEGEND

- PROPOSED STREAM RESTORATION
- PROPOSED RIPRAP
- PROPOSED BRUSH ENHANCED RIFFLE
- EXISTING WETLAND

AS-BUILT LEGEND

- TOP OF BANK
- TOP OF BANK DEVIATIONS
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- THALWEG DEVIATIONS
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- BRUSH TOE
- BOULDER BRUSH RUN
- BRUSH RUN - LARGE



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REV. NO.	DATE	BY	APP'D.	REVISION
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Client/Project: EW SOLUTIONS, LLC

SENIARD CREEK MITIGATION SITE

HENDERSON COUNTY, NC

Title: SITTON CREEK - PLAN & PROFILE - AS-BUILT STA 210+00 - 215+00

Permit-Seal

Project Number: 172621103

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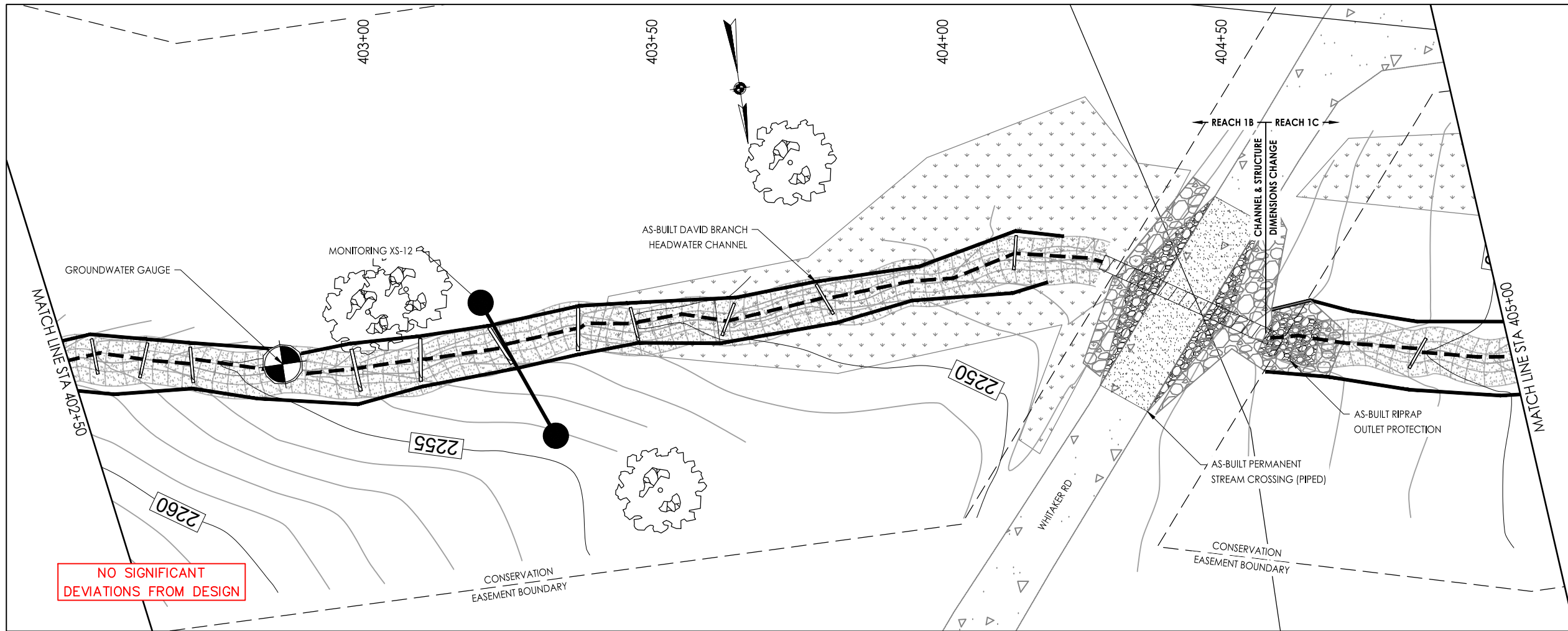
Drawing No. Revision Sheet

2 AB-8

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LOCATION KEY

LEGEND

- PROPOSED STREAM RESTORATION
- PROPOSED RIPRAP
- PROPOSED BRUSH ENHANCED RIFFLE
- EXISTING WETLAND

AS-BUILT LEGEND

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Stantec

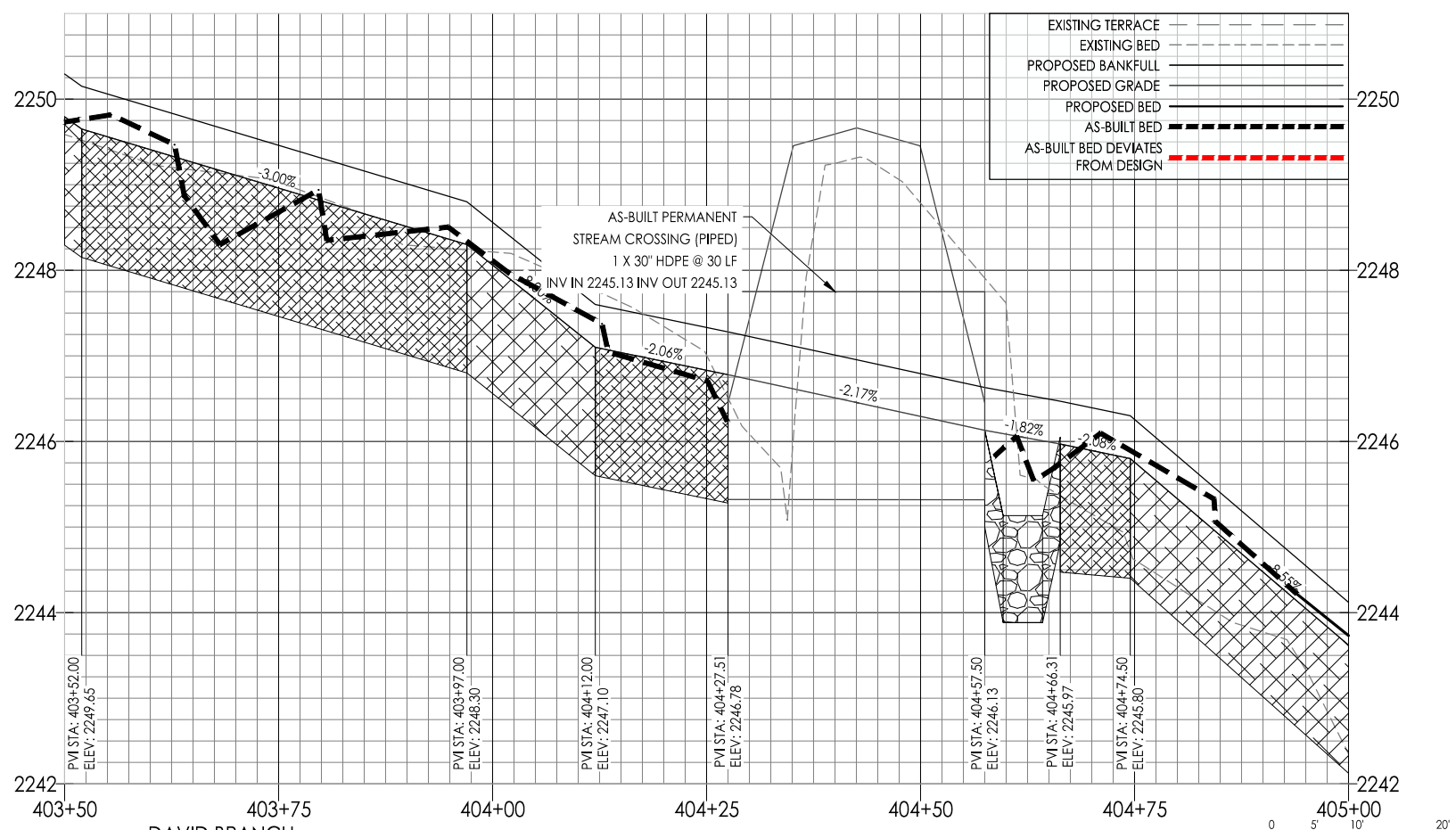
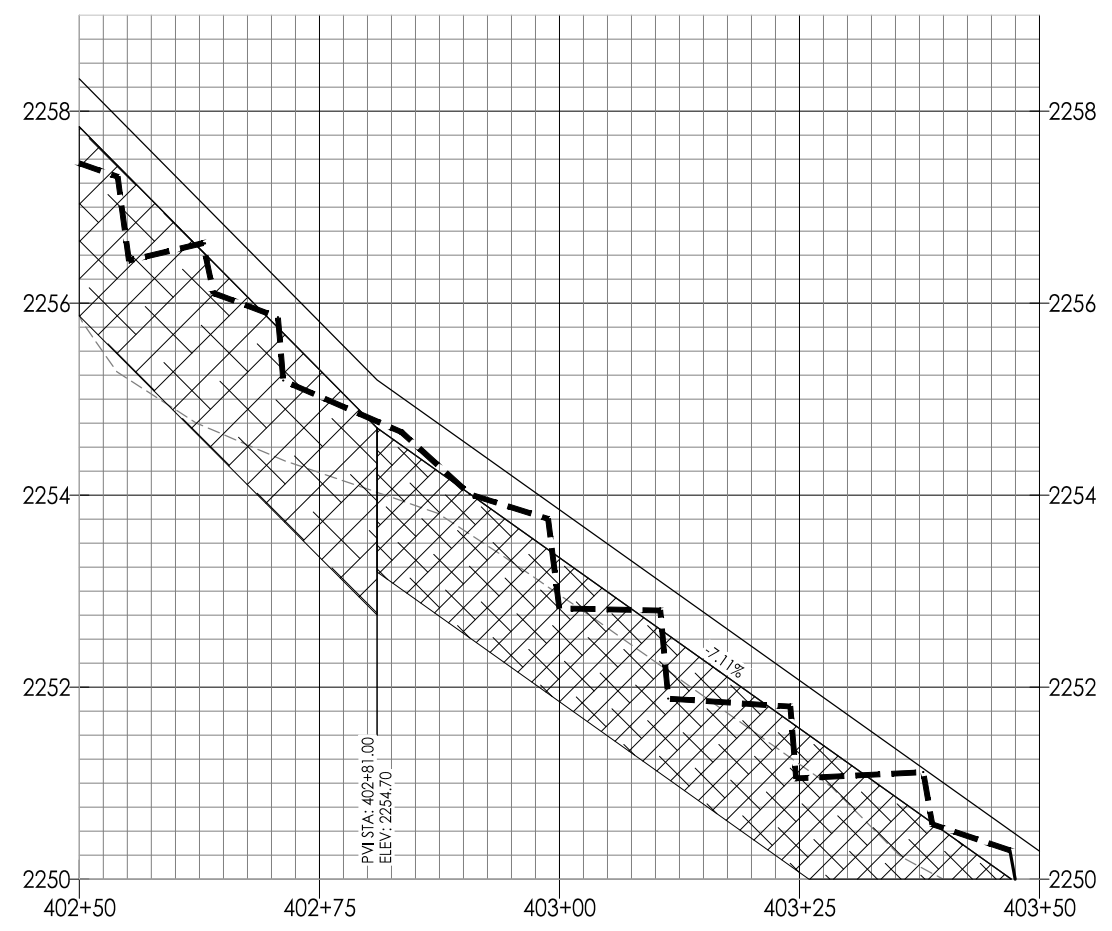
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AS-BUILT REVISIONS

NO.	DATE	BY	APP'D.	REVISION
1	21.05.17			

Revision

By: TY.MM.DD



Client/Project: EW SOLUTIONS, LLC

SENIARD CREEK MITIGATION SITE

HENDERSON COUNTY, NC

Title: DAVID BRANCH - PLAN & PROFILE - AS-BUILT STA 402+50 - 405+00

Permit-Seal

Professional Engineer Seal for Christopher M. Emble, License No. 038595, dated 5/26/21.

Project Number: 172621103

File Name: 1103-07-AB-David PLANPRO.dwg

Dwg. No. DAVID - (2)

Revision Sheet

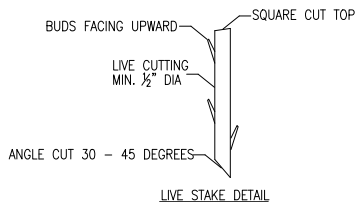
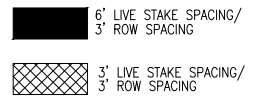
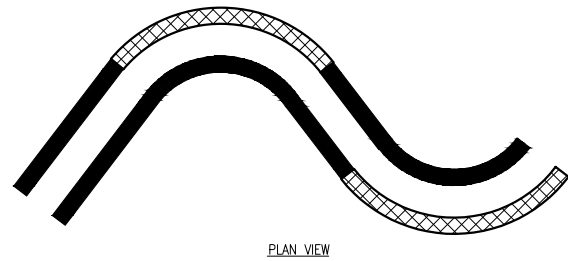
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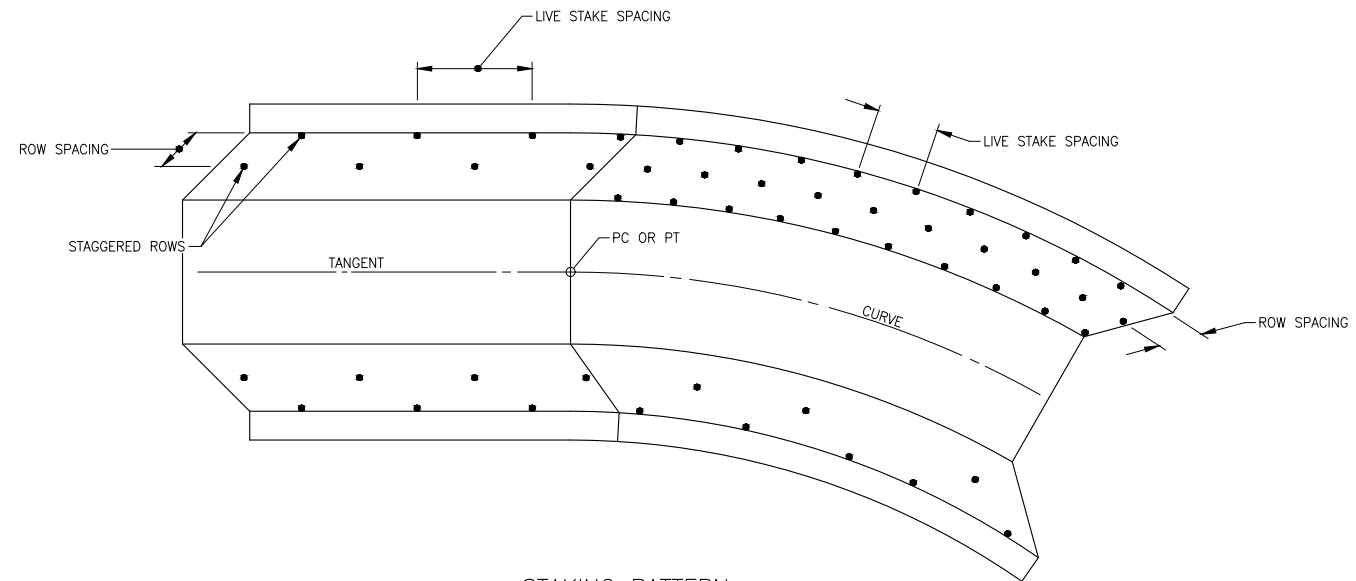








NUMBER OF LIVE STAKE ROWS			
CHANNEL DEPTH (FT)	INSIDE OF BEND	TANGENT	OUTSIDE OF BEND
0 - 1.5	1	1	2
1.5 - 2.5	2	2	3
2.5 - 3.5	3	3	4



STAKING PATTERN  
NOT TO SCALE

**PLANTING NOTES:**

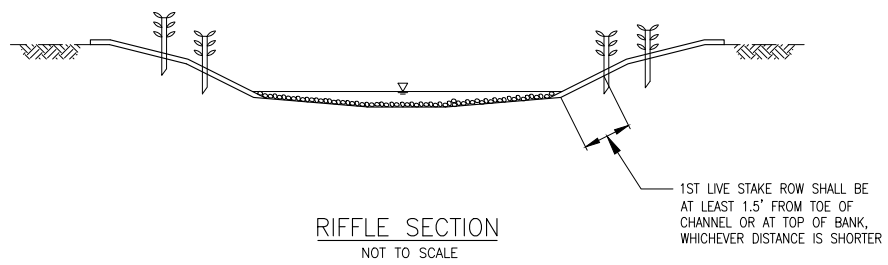
- TEMPORARY AND PERMANENT SEED
1. ALL DISTURBED AREAS WILL BE STABILIZED USING MULCH AND TEMPORARY SEED TO PROVIDE ADEQUATE GROUND COVER AND CONDITION THE SOIL.
  2. MULCH MUST BE ADDED TO ACHIEVE 95% COVERAGE (ROUGHLY 4 TONS/ACRE FOR WHEAT STRAW)
  3. A FERTILITY SOIL TEST SHALL BE USED TO DETERMINE FERTILIZER AMOUNTS OR, IF NO SOIL TEST IS AVAILABLE, A STANDARD MIXTURE SHALL BE APPLIED OF 2 TONS OF LIME PER ACRE AND 700-1000 LBS OF 10-10-10 FERTILIZER PER ACRE.

**BARE ROOT PLANTINGS**

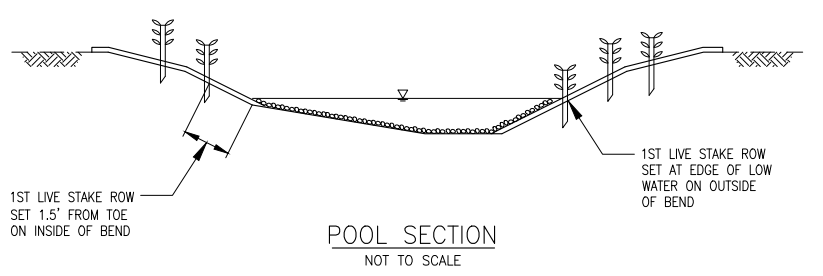
1. PLANT BARE ROOT SHRUBS AND TREES IN AREAS AS INDICATED ON THE PLANS.
2. PROVIDE 8 FT OF SPACING BETWEEN INSTALLED PLANTS YIELDING A DENSITY OF 680 STEMS/AC, DIVIDED EQUALLY BETWEEN AVAILABLE SPECIES.
3. LOOSEN COMPACTED SOIL AND PLANT IN HOLES FORMED WITH A MATTOCK, DIBBLE BAR OR EQUAL.
4. PROVIDE PLANTING HOLE SUFFICIENT IN SIZE AND DEPTH TO PREVENT CROWDING OF ROOTS.
5. ROOTS SHALL BE KEPT MOIST DURING TRANSPORTATION, DISTRIBUTION, AND INSTALLATION.
6. PLANTS SHALL BE HEELED-IN INTO MOIST SOIL IF NOT PROMPTLY PLANTED AFTER DELIVERY TO THE PROJECT SITE.

**LIVE STAKES:**

1. STAKES SHOULD BE SPACED ACCORDING TO PLAN VIEW DETAIL AND DIVIDED EQUALLY BETWEEN THE AVAILABLE SPECIES.
2. STAKES SHOULD BE CUT AND INSTALLED ON THE SAME DAY.
3. STAKES THAT ARE SPLIT SHALL NOT BE INSTALLED.
4. STAKES SHALL BE INSTALLED ORTHOGONAL TO THE BANK AND WITH BUDS POINTING UPWARDS.
5. STAKES SHALL BE 1/2 TO 2 INCHES IN DIAMETER AND 2 TO 3 FEET IN LENGTH.
6. AFTER INSTALLATION, THE TOP PORTION OF STAKES SHALL BE PRUNED WITH A SQUARE CUT LEAVING NO LESS THAN 3 INCHES AND NO MORE THAN 6 INCHES ABOVE THE GROUND.



RIFFLE SECTION  
NOT TO SCALE



POOL SECTION  
NOT TO SCALE

RIPARIAN & WETLAND PLANTINGS - BYSTREAM									
	Seniard Creek			Sitton Creek			Lee Branch		
	Setting	RIP - RIPARIAN	WET - WETLAND	Setting	RIP - RIPARIAN	WET - WETLAND	Setting	RIP - RIPARIAN	WET - WETLAND
<b>TREES</b>	River Birch	<i>Betula nigra</i>	RP	River Birch	<i>Betula nigra</i>	RP	Serviceberry	<i>Amelanchier arborea</i>	RP
	Tulip poplar	<i>Liriodendron tulipifera</i>	RP	Tulip poplar	<i>Liriodendron tulipifera</i>	RP	Northern Red Oak	<i>Quercus rubra</i>	RP
	Black Tupelo	<i>Nyssa sylvatica</i>	RP	Black Tupelo	<i>Nyssa sylvatica</i>	RP	American Beech	<i>Fagus grandifolia</i>	RP
	Black Willow	<i>Salix nigra</i>	RP / WET	American Holly	<i>Ilex opaca</i>	RP	Black Tupelo	<i>Nyssa sylvatica</i>	RP
	Green Ash	<i>Fraxinus pennsylvanica</i>	RP / WET	Black Willow	<i>Salix nigra</i>	RP / WET	American Holly	<i>Ilex opaca</i>	RP
	American Sycamore	<i>Platanus occidentalis</i>	RP / WET	American Sycamore	<i>Platanus occidentalis</i>	RP / WET	American Hornbeam	<i>Carpinus caroliniana</i>	RP
<b>SHRUBS</b>	Smooth Alder	<i>Alnus serrulata</i>	WET	Smooth Alder	<i>Alnus serrulata</i>	WET	American Witch-Hazel	<i>Hamamelis virginiana</i>	RP
	Red Chokeberry	<i>Aronia arbutifolia</i>	WET	Red Chokeberry	<i>Aronia arbutifolia</i>	WET	Highbush Blueberry	<i>Vaccinium corymbosum</i>	RP
	Winterberry	<i>Ilex verticillata</i>	WET	Winterberry	<i>Ilex verticillata</i>	WET	Sweet Pepperbush	<i>Clethra alnifolia</i>	RP
	Black Elderberry	<i>Sambucus canadensis</i>	WET	Black Elderberry	<i>Sambucus canadensis</i>	WET	Smooth Alder	<i>Alnus serrulata</i>	WET
							Winterberry	<i>Ilex verticillata</i>	WET
							Black Elderberry	<i>Sambucus canadensis</i>	WET
							Red Chokeberry	<i>Aronia arbutifolia</i>	WET
<b>LIVE STAKES</b>	Silky dogwood	<i>Cornus amomum</i>		Silky dogwood	<i>Cornus amomum</i>		Silky dogwood	<i>Cornus amomum</i>	
	Elderberry	<i>Sambucus canadensis</i>		Elderberry	<i>Sambucus canadensis</i>		Elderberry	<i>Sambucus canadensis</i>	
	Black Willow	<i>Salix nigra</i>		Black Willow	<i>Salix nigra</i>				

RIPARIAN & WETLAND PLANTINGS - BYSTREAM									
	David Branch			Whitaker Branch			Redmond Branch		
	Setting	RIP - RIPARIAN	WET - WETLAND	Setting	RIP - RIPARIAN	WET - WETLAND	Setting	RIP - RIPARIAN	WET - WETLAND
<b>TREES</b>	Serviceberry	<i>Amelanchier arborea</i>	RP	Serviceberry	<i>Amelanchier arborea</i>	RP	Serviceberry	<i>Amelanchier arborea</i>	RP
	Northern Red Oak	<i>Quercus rubra</i>	RP	Northern Red Oak	<i>Quercus rubra</i>	RP	Northern Red Oak	<i>Quercus rubra</i>	RP
	Sassafras	<i>Sassafras albidum</i>	RP	Sassafras	<i>Sassafras albidum</i>	RP	Sassafras	<i>Sassafras albidum</i>	RP
	Sourwood	<i>Oxydendrum arboreum</i>	RP	Sourwood	<i>Oxydendrum arboreum</i>	RP	Sourwood	<i>Oxydendrum arboreum</i>	RP
	American Holly	<i>Ilex opaca</i>	RP	American Holly	<i>Ilex opaca</i>	RP	American Holly	<i>Ilex opaca</i>	RP
	American Hornbeam	<i>Carpinus caroliniana</i>	RP	American Hornbeam	<i>Carpinus caroliniana</i>	RP	American Hornbeam	<i>Carpinus caroliniana</i>	RP
<b>SHRUBS</b>	American Witch-Hazel	<i>Hamamelis virginiana</i>	RP	American Witch-Hazel	<i>Hamamelis virginiana</i>	RP	American Witch-Hazel	<i>Hamamelis virginiana</i>	RP
	Highbush Blueberry	<i>Vaccinium corymbosum</i>	RP	Highbush Blueberry	<i>Vaccinium corymbosum</i>	RP	Highbush Blueberry	<i>Vaccinium corymbosum</i>	RP
	Sweet Pepperbush	<i>Clethra alnifolia</i>	RP	Sweet Pepperbush	<i>Clethra alnifolia</i>	RP	Sweet Pepperbush	<i>Clethra alnifolia</i>	RP
	Smooth Alder	<i>Alnus serrulata</i>	WET	Smooth Alder	<i>Alnus serrulata</i>	WET	Smooth Alder	<i>Alnus serrulata</i>	WET
	Winterberry	<i>Ilex verticillata</i>	WET	Winterberry	<i>Ilex verticillata</i>	WET	Winterberry	<i>Ilex verticillata</i>	WET
	Black Elderberry	<i>Sambucus canadensis</i>	WET	Black Elderberry	<i>Sambucus canadensis</i>	WET	Black Elderberry	<i>Sambucus canadensis</i>	WET
	Red Chokeberry	<i>Aronia arbutifolia</i>	WET	Red Chokeberry	<i>Aronia arbutifolia</i>	WET	Red Chokeberry	<i>Aronia arbutifolia</i>	WET
<b>LIVE STAKES</b>	Silky dogwood	<i>Cornus amomum</i>		Silky dogwood	<i>Cornus amomum</i>		Silky dogwood	<i>Cornus amomum</i>	
	Elderberry	<i>Sambucus canadensis</i>		Elderberry	<i>Sambucus canadensis</i>		Elderberry	<i>Sambucus canadensis</i>	

NOTE: PLANT SPECIES TO BE INSTALLED SHALL BE DEPENDENT ON SPECIES AVAILABILITY. CONTRACTOR MAY MODIFY COMPOSITION AS APPROVED BY ENGINEER.

PERMANENT RIPARIAN MIX		
Riparian Buffer Mix (Mellow Marsh Farm)		
COMMON NAME	SCIENTIFIC NAME	% MX
Autumn bentgrass	<i>Agrostis perennans</i>	15
Big bluestem	<i>Andropogon gerardii</i>	10
Lanceleaf coreopsis	<i>Carex lancoolata</i>	10
Virginia wild rye	<i>Elymus virginicus</i>	20
Soft rush	<i>Juncus effusus</i>	5
Switchgrass	<i>Panicum virgatum</i>	15
Black-eyed susan	<i>Rudbeckia hirta</i>	10
Little bluestem	<i>Schizachyrium scoparium</i>	5
Indian grass	<i>Sorghastrum nutans</i>	5
Eastern gamagrass	<i>Tripsacum dactyloides</i>	5

Recommended application rate: 20-25 lbs. per acre

PERMANENT WETLAND MIX		
Wetland Seed Mix (Mellow Marsh)		
COMMON NAME	SCIENTIFIC NAME	% MX
Showy tickseed sunflower	<i>Bidens aristosa</i>	7
Fox sedge	<i>Carex vulpinoidea</i>	12
Deer tongue	<i>Dichanthium clandestinum</i>	8
Riverbank wildrye	<i>Elymus riparius</i>	20
Soft rush	<i>Juncus effusus</i> NCEcotype	4
Smooth panicgrass	<i>Panicum dichotomiflorum</i>	14
Redtop panicgrass	<i>Panicum rigidulum</i>	8
Switchgrass	<i>Panicum virgatum</i>	23
Pennsylvania smartweed	<i>Polygonum pensylvanicum</i>	2
Eastern bur reed	<i>Sparganium americanum</i>	2

Recommended application rate: 20-25 lbs. per acre

NOTE: PERMANENT WETLAND MIX SHALL BE APPLIED TO ALL EXISTING AND PROPOSED WETLAND AREAS. PERMANENT RIPARIAN MIX SHALL BE APPLIED TO ALL OTHER AREAS INSIDE CONSERVATION EASEMENT.

COMMON NAME	SCIENTIFIC NAME	SEEDING DENSITY (lbs/acre)	SEEDING DATES
<b>Temporary Seeding</b>			
Partridge Pea	<i>Chamaecrista fasciculata</i>	8	MAR 15 - OCT 15
Daikon Radish	<i>Paphanussativus var. longipinnatus</i>	8	MAR 15 - OCT 15
Browntop Millet	<i>Echinochloa esculenta</i>	8	MAR 15 - OCT 15
Buckwheat	<i>Fagopyrum esculentum</i>	10	MAR 15 - OCT 15
Cereal Rye	<i>Secale cereal</i>	26	OCT 15 - MAR 15

NO SIGNIFICANT DEVIATIONS FROM DESIGN

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REV	DATE	BY	APP'D	DESCRIPTION
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Client/Project: EW SOLUTIONS, LLC  
 SENIARD CREEK MITIGATION SITE  
 HENDERSON COUNTY, NC  
 Title: PLANTING DETAILS - AS-BUILT

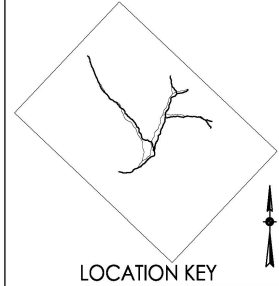
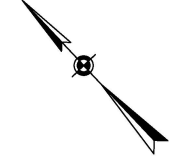
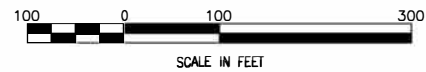
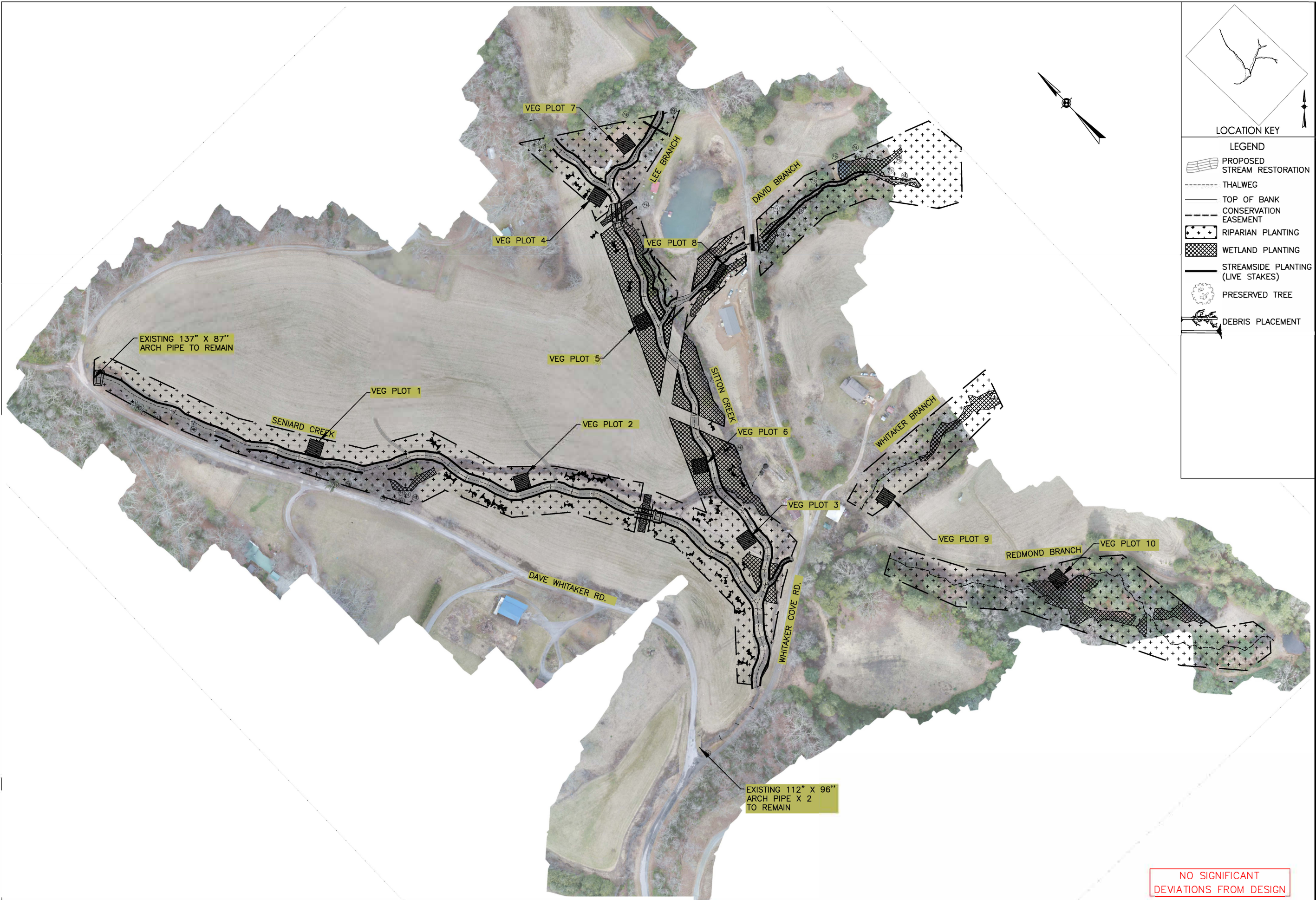
Permit-Seal

Project Number: 17261103

CEG	SGG	CME	DATE
			21.05.17
Dwn.	Chkd.	Dsgn.	YY.MM.DD



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**LEGEND**

- PROPOSED STREAM RESTORATION
- THALWEG
- TOP OF BANK
- CONSERVATION EASEMENT
- RIPARIAN PLANTING
- WETLAND PLANTING
- STREAMSIDE PLANTING (LIVE STAKES)
- PRESERVED TREE
- DEBRIS PLACEMENT

**Stantec**  
 56 COLLEGE STREET, SUITE 201  
 ASHEVILLE, NC 28801  
 www.stantec.com

REV 2 - LINE WEIGHTS

REV	DATE	BY	APP'D

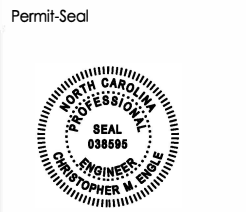
Revision

REV	DATE	BY	APP'D

Issued

Client/Project  
 EW SOLUTIONS  
 SENIARD CREEK MITIGATION SITE  
 HENDERSON COUNTY, NORTH CAROLINA

Title  
 PLANTING PLAN - AS-BUILT



Project Number: 172621103

REV	DATE	BY	APP'D

Revision 0 Sheet AB-P-2

NO SIGNIFICANT DEVIATIONS FROM DESIGN

NOTE: PROPERTY BOUNDARIES, FENCES AND UTILITIES NOT SURVEYED. APPROXIMATE LOCATIONS ONLY.