

- GENERAL NOTES:**
1. This as-built wetland restoration plan has been prepared for the North Carolina Ecosystem Enhancement Program for the purpose of documenting the restoration of 23 acres of non-riparian wetland on the Hofler Property. The Hofler property is located within the Chowan River Basin.
 2. On site grading was completed on September 24, 2014.
 3. As-built topographic survey completed by True Line Surveying, Inc. in October 2014.
 4. Planting of the site was completed on May 6, 2015.

**WETLAND MITIGATION PROJECT
ALBEMARLE RESTORATIONS, LLC
HOFLER SITE
GATES COUNTY, NC**

EPP PROJECT ID: 95355
EPP CONTRACT #: 004628

LEGEND

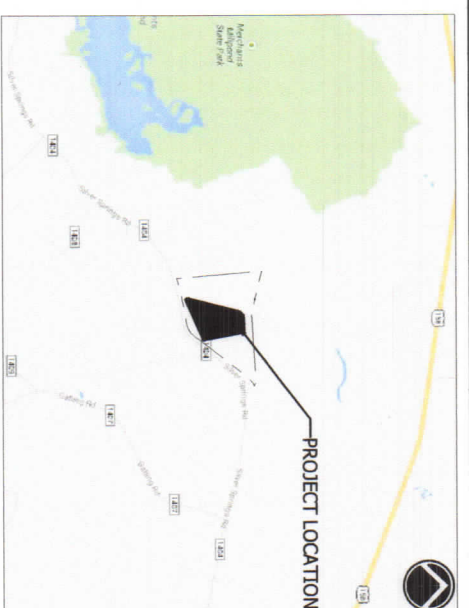
- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS
- SOILS
- EXISTING ROADS
- PROJECT BOUNDARY
- PROPOSED WETLAND RESTORATION EASEMENT
- EXISTING R.O.W.
- CROSS SECTION LOCATION
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
- PROPOSED DITCH PLUG INLETS/OUTLETS
- PROPOSED NON-RIPARIAN PLANTING AREA
- PROPOSED WETLAND BUFFER
- AS-BUILT CONTOURS (1' AND 0.5')
- AS-BUILT SPOT



SITE OVERVIEW
SCALE: 1" = 400'

PROPOSED WETLAND MITIGATION CREDIT SUMMARY

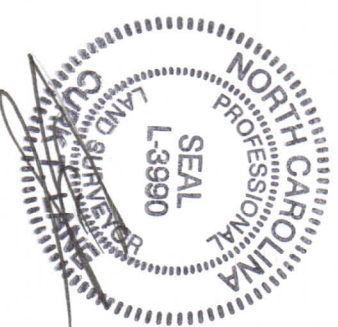
	ACREAGE	WMU'S
WETLAND RESTORATION AREAS (1:1)	23	23
NON RIPARIAN WETLAND RESTORATION	23	23
Total	46	46



VICINITY MAP
SCALE: 1" = 5000'

INDEX OF SHEETS

TITLE SHEET
T-1 AS-BUILT GRADING PLAN OVERALL
G-1 AS-BUILT GRADING PLAN
G-2 AS-BUILT GRADING PLAN
G-3 AS-BUILT GRADING PLAN
G-4 AS-BUILT GRADING PLAN
G-5 AS-BUILT GRADING PLAN
D-1 AS-BUILT DETAILS & SECTIONS
B-1 AS-BUILT BOUNDARY MARKING PLAN
LE-1 AS-BUILT LATERAL EFFECT
P-1 AS-BUILT PLANTING PLAN
P-2 AS-BUILT PLANTING DETAILS



ALBEMARLE RESTORATIONS, LLC

**WETLAND RESTORATION,
STREAM RESTORATION, &
WILDLIFE HABITAT CREATION**

P.O. BOX 176 • FAIRFIELD, NC 27826
(252) 333-0249 • FAX (252) 926-9983

HOFLER PROPERTY
AS-BUILT
23.0 NON-RIPARIAN WMU'S
GATES CO., NC
EPP PROJECT ID: 95355
EPP CONTRACT #: 004628



REVISIONS

DATE	DESCRIPTION	REV. BY
FEB. 2014	AWENED/PER	WJV
APRIL 2014	NEED COMMENTS	CKA
JAN 2015	AWENED/PER	CRH
	AS-BUILT	

DESIGNED: JBM
DRAWN: WJV
PROJECT NO: 1270
DATE: AUG. 2013
SHEET: SHEET T-1

SHEET T-1

GRADING OVERVIEW

SCALE: 1" = 200'

MAPPED SOILS	
BnA	Bladen loam, 0-3% slopes
PnA	Pantego fine sandy loam, 0-2% slopes

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS + 34
- SOILS
- EXISTING ROADS
- PROJECT BOUNDARY
- PROPOSED WETLAND RESTORATION EASEMENT
- EXISTING R.O.W.
- CROSS SECTION LOCATION
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
- PROPOSED DITCH PLUG INLETS/OUTLETS
- PROPOSED NON-RIPARIAN PLANTING AREA
- PROPOSED WETLAND BUFFER
- MONITORING WELLS
- VEGETATIVE MONITORING PLOTS
- AS-BUILT CONTOURS (1' AND 0.5')
- AS-BUILT SPOT
- SURVEYED CONSERVATION EASEMENT
- AS-BUILT MONITORING WELLS
- AS-BUILT VEGETATIVE MONITORING PLOTS (10m x 10m)



SHEET G-2

SHEET G-4

SHEET G-3

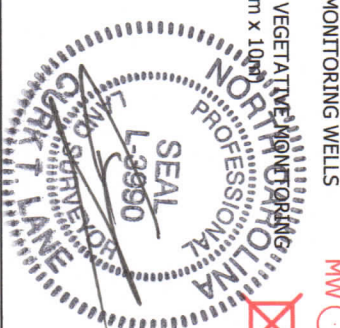
SHEET G-5

TO BE PARTIALLY FILLED SEE DETAILS ON SHEETS G-2 AND G-4

TO BE PARTIALLY FILLED SEE DETAILS ON SHEETS G-3, G-4 AND G-5

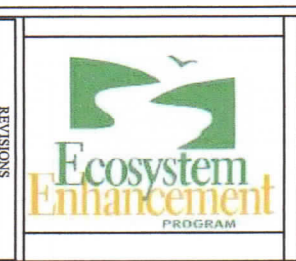
EXISTING DITCH TO BE PARTIALLY FILLED SEE DETAILS ON SHEET G-5

EXISTING DITCH TO BE PARTIALLY FILLED SEE DETAILS ON SHEETS G-3 AND G-5.



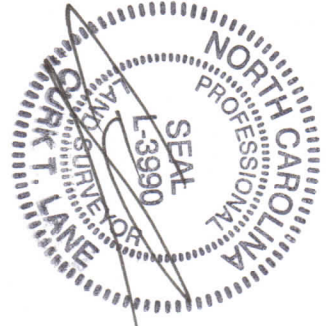
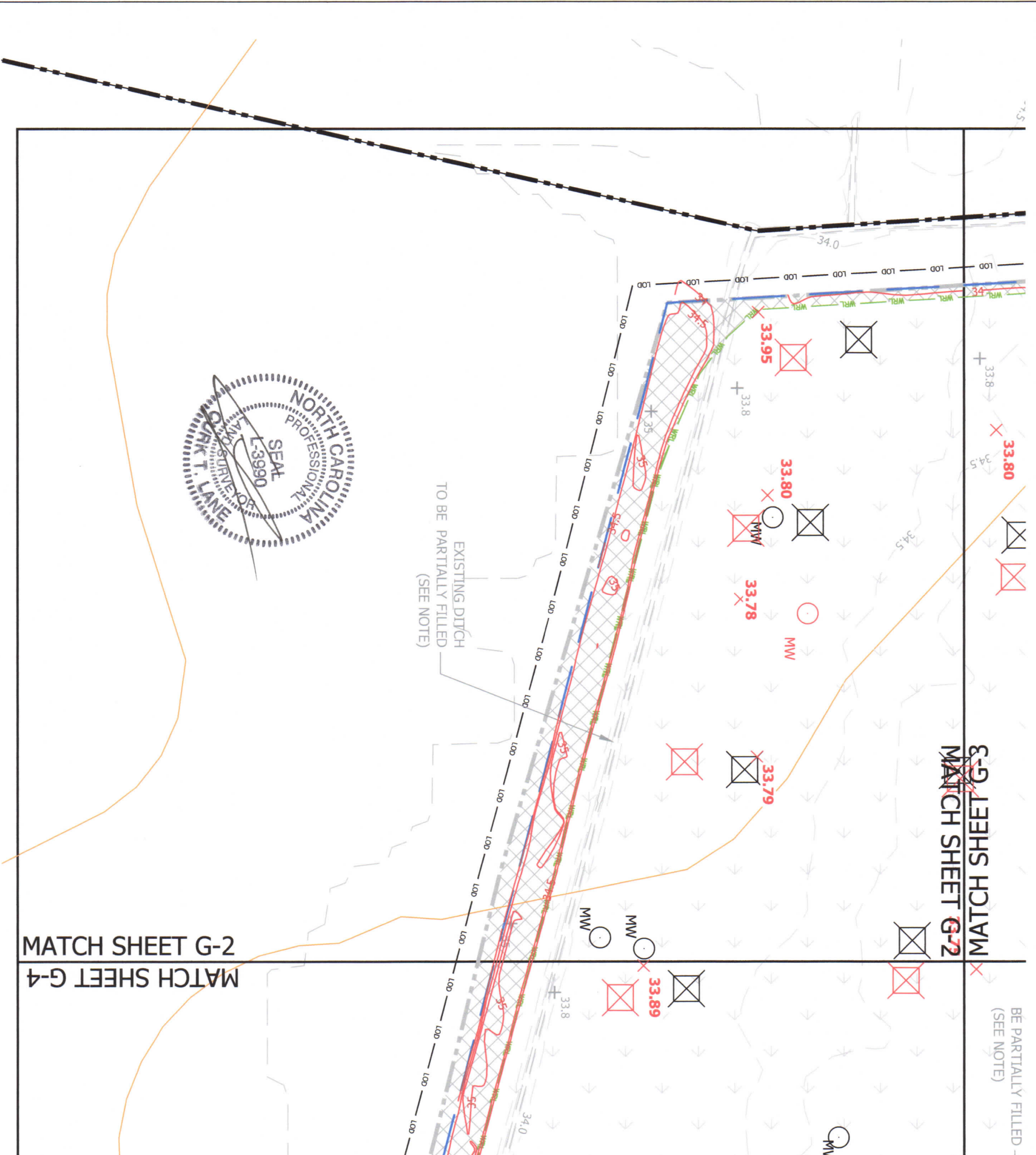
DATE	DESCRIPTION	REV.	BY
FEB. 2014	ASSIGNED PER	WV	
APRIL 2014	INTEGRATED PER	CEA	
JAN 2015	AS-BUILT	CEH	

PROJECT MANAGER: JBM
DESIGNED: JBM
DRAWN: WV
PROJECT NO. 1220
DATE: AUGUST 2013
SHEET: SHEET G-1



HOFLEER PROPERTY
AS-BUILT GRADING OVERVIEW
23.0 NON-RIPARIAN WMU'S
GATES CO., NC
EEP PROJECT ID: 95355
EEP CONTRACT #: 004628

ALBEMARLE RESTORATIONS, LLC
WETLAND RESTORATION,
STREAM RESTORATION, &
WILDLIFE HABITAT CREATION
P.O. BOX 176 • FAIRFIELD, NC 27826
(252) 333-0249 • FAX (252) 926-9983



EXISTING DITCH
TO BE PARTIALLY FILLED
(SEE NOTE)

MATCH SHEET G-2
MATCH SHEET G-4

~~G-G JEEHS HCTM~~
~~MATCH SHEET G-2~~

BE PARTIALLY FILLED
(SEE NOTE)

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS + 34
- SOILS BNA
- EXISTING ROADS
- PROJECT BOUNDARY
- PROPOSED WETLAND RESTORATION EASEMENT
- EXISTING R.O.W.
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
- PROPOSED DITCH PLUG INLETS/OUTLETS
- PROPOSED NON-RIPARIAN PLANTING AREA
- PROPOSED WETLAND BUFFER
- MONITORING WELLS MW
- VEGETATIVE MONITORING PLOTS
- AS-BUILT CONTOURS (1' AND 0.5')
- AS-BUILT SPOT + 34.5
- SURVEYED CONSERVATION EASEMENT
- AS-BUILT MONITORING WELLS MW
- AS-BUILT VEGETATIVE MONITORING PLOTS (10m x 10m)

NOTE:
THIS DITCH TO BE FILLED AND BROUGHT TO THE SURROUNDING ELEVATION AS FAR AS THE LOCATION OF THE EASEMENT BOUNDARY.

GRADING DETAIL

SCALE: 1" = 100'



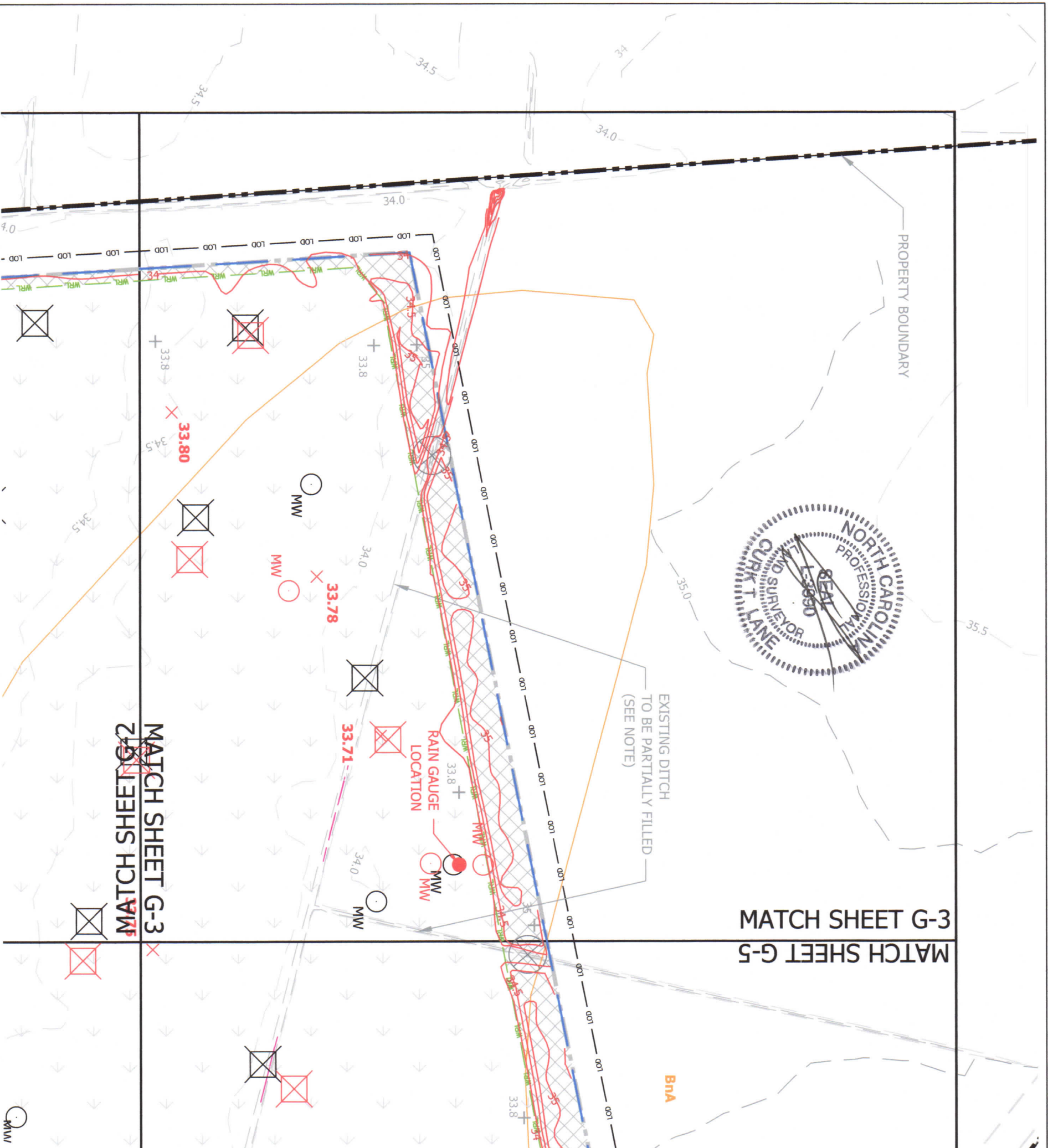
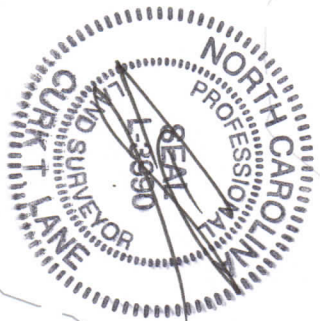
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HOFLEER PROPERTY
 AS-BUILT GRADING OVERVIEW
 23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEE PROJECT ID: 95355
 EEP CONTRACT #: 004628

REVISIONS	
DATE	DESCRIPTION
FEB. 2014	ISSUED PER NCEP COMMENTS
APRIL 2014	ISSUED PER NCEP COMMENTS
JAN 2015	AS-BUILT

PROJECT MANAGER:	JBM
DESIGNED:	JBM
DRAWN:	W/V
PROJECT NO.:	1270
DATE:	AUGUST 2013
SHEET:	

SHEET G-2



MATCH SHEET G-5

MATCH SHEET G-3

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS
- SOILS
- EXISTING ROADS
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- PROPOSED WETLAND RESTORATION EASEMENT
- EXISTING R.O.W.
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
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- AS-BUILT MONITORING WELLS
- AS-BUILT VEGETATIVE MONITORING PLOTS (10m x 10m)

NOTE:
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GRADING PLAN
SCALE: 1" = 100'



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HOFER PROPERTY
AS-BUILT GRADING OVERVIEW
23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628

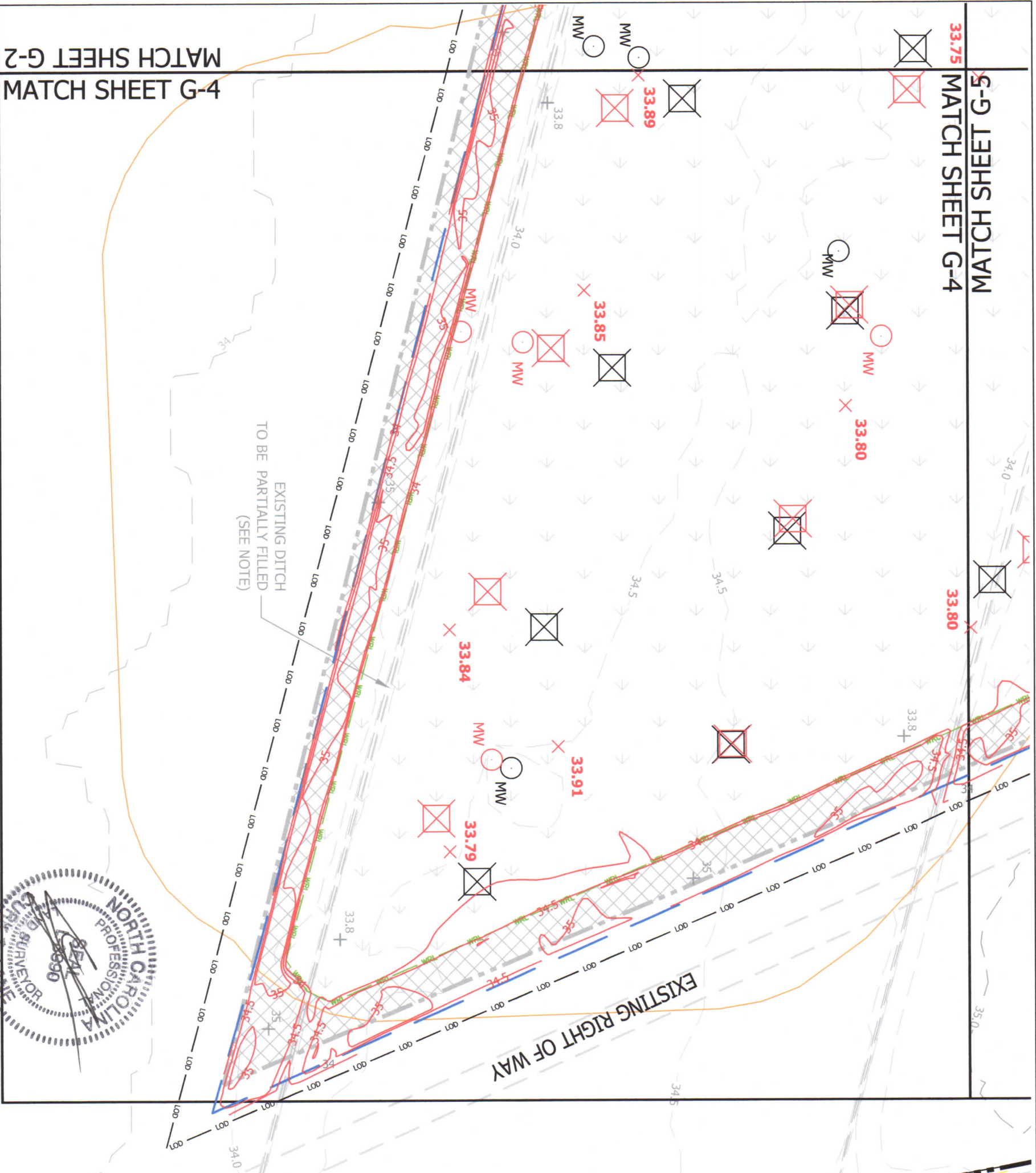


REVISIONS	
DATE	DESCRIPTION
FEB. 2014	ADVISED PER NCEIP COMMENTS
APRIL 2014	AS-BUILT
JAN. 2015	AS-BUILT

PROJECT MANAGER: JBM
 DESIGNED: JBM
 DRAWN: WAX
 PROJECT NO.: 1270
 DATE: AUGUST 2012
 SHEET: SHEET G-3

5-G LEEHS HCLTAV

33.75 MATCH SHEET G-4



4-G MATCH SHEET G-4

MATCH SHEET G-2

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS
- SOILS
- EXISTING ROADS
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- PROPOSED WETLAND RESTORATION EASEMENT
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- LIMIT OF DISTURBANCE
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- AS-BUILT SPOT
- SURVEYED CONSERVATION EASEMENT
- AS-BUILT MONITORING WELLS
- AS-BUILT VEGETATIVE MONITORING PLOTS (10m x 10m)

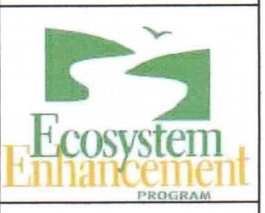
NOTE:
THIS DITCH TO BE FILLED AND BROUGHT TO THE SURROUNDING ELEVATION AS FAR AS THE LOCATION OF THE EASEMENT LIMIT.

GRADING PLAN
SCALE: 1" = 100'



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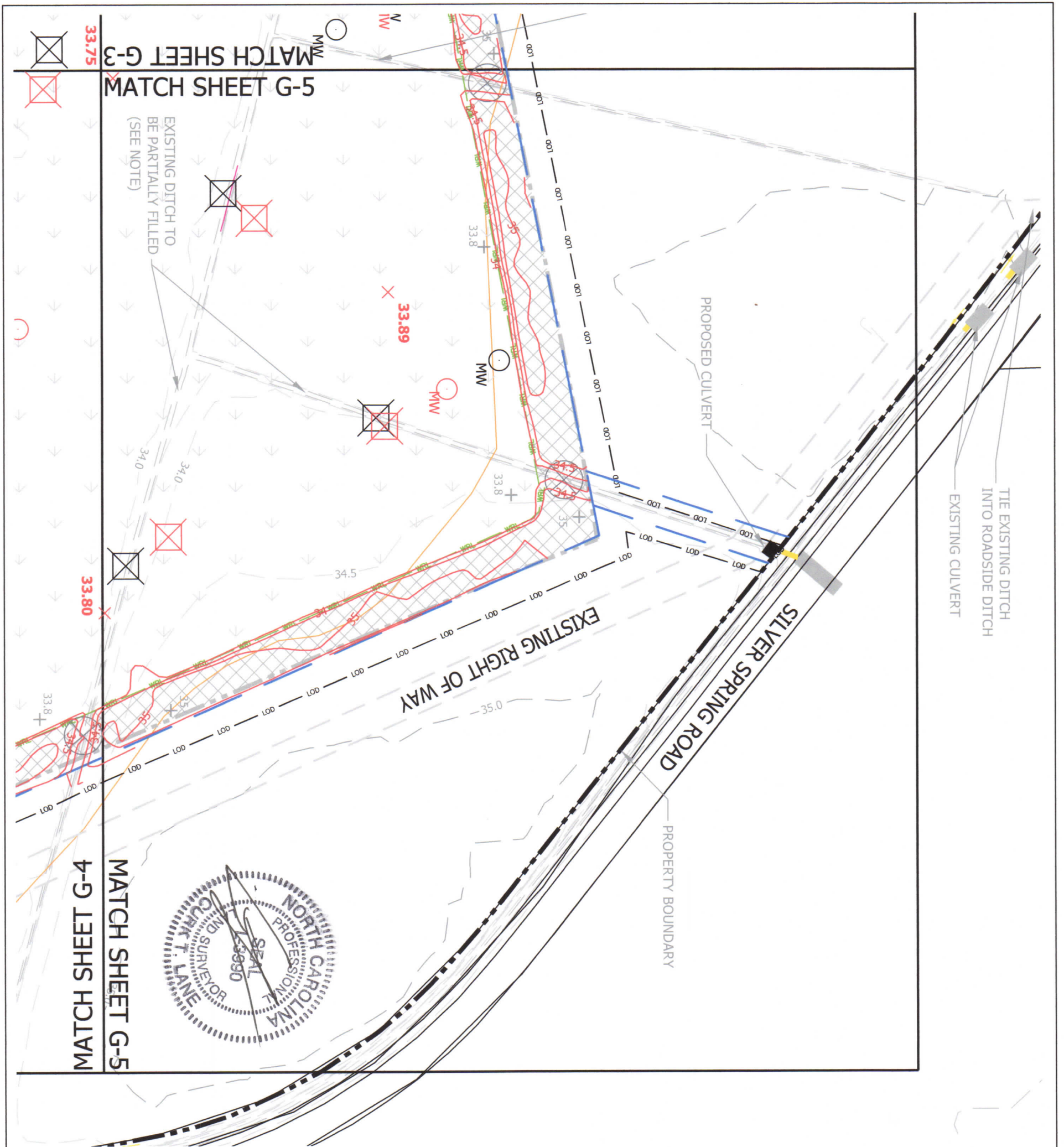
HOFLEER PROPERTY
AS-BUILT GRADING OVERVIEW
23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628



REVISIONS	
DATE	DESCRIPTION
FEB. 2014	ASSEMBLY PER
APRIL 2014	FIELD COMMENTS
JAN. 2015	CONSENT PER
	AS-BUILT

PROJECT MANAGER: JBM
 DESIGNED: JBM
 DRAWN: WJV
 PROJECT NO: 1270
 DATE: AUGUST, 2013
 SHEET:

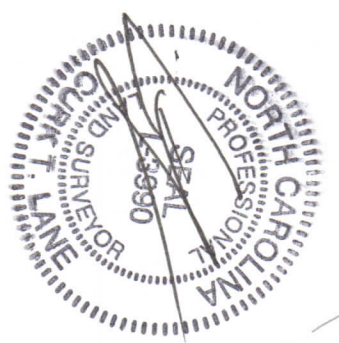
SHEET G-4



MATCH SHEET G-5
 MATCH SHEET G-3

EXISTING DITCH TO BE PARTIALLY FILLED (SEE NOTE)

MATCH SHEET G-5
 MATCH SHEETS H-1 AND H-2



LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
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- SOILS
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- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
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- AS-BUILT MONITORING WELLS
- AS-BUILT VEGETATIVE MONITORING PLOTS (10m x 10m)

NOTE:
 THIS DITCH TO BE FILLED AND BROUGHT TO THE SURROUNDING ELEVATION AS FAR AS THE LOCATION OF THE EASEMENT LIMIT.

GRADING PLAN
 SCALE: 1" = 100'



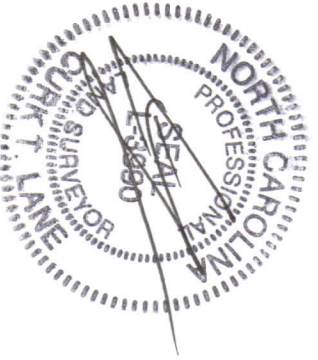
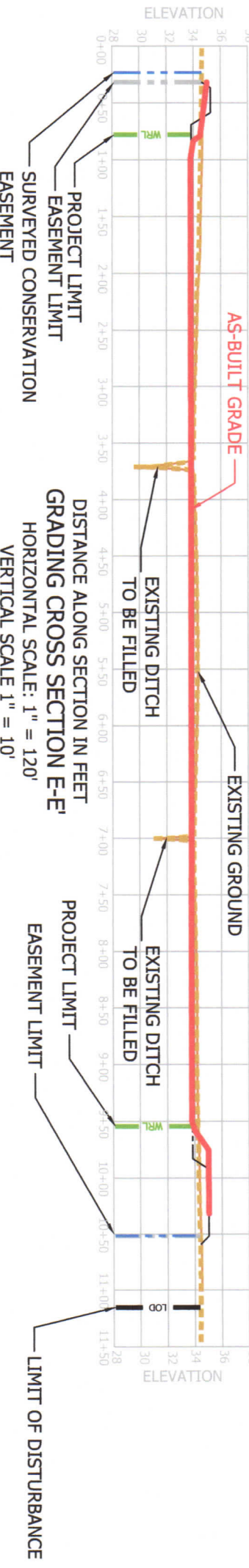
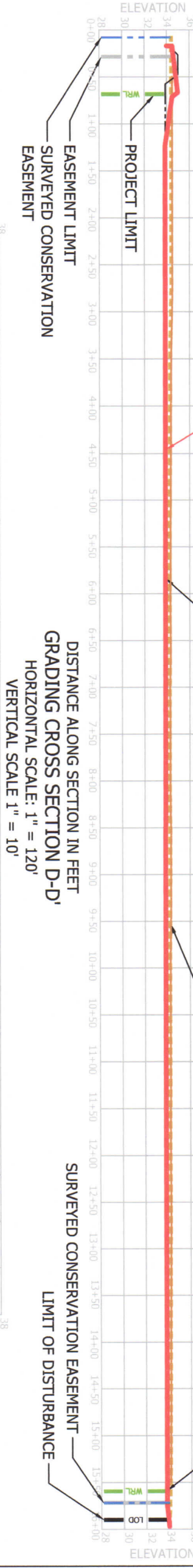
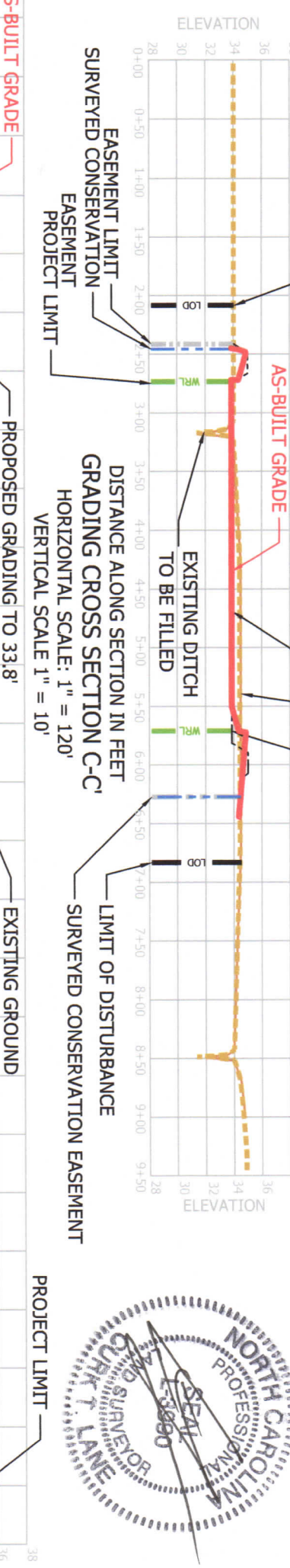
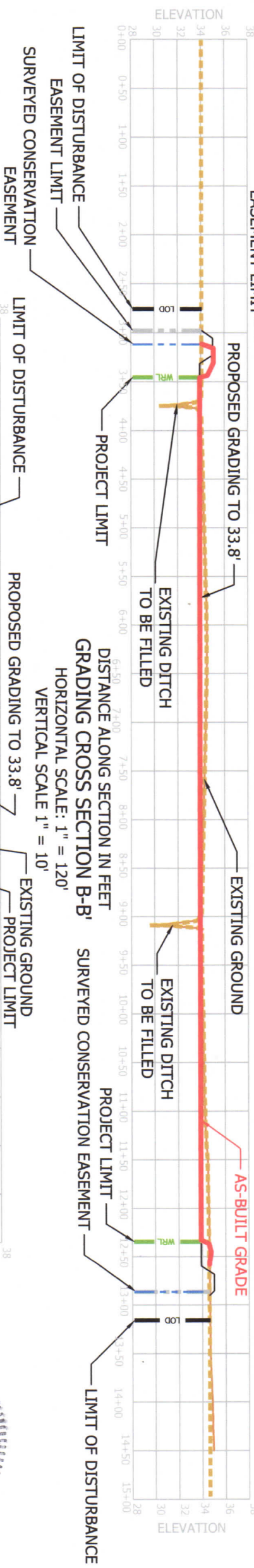
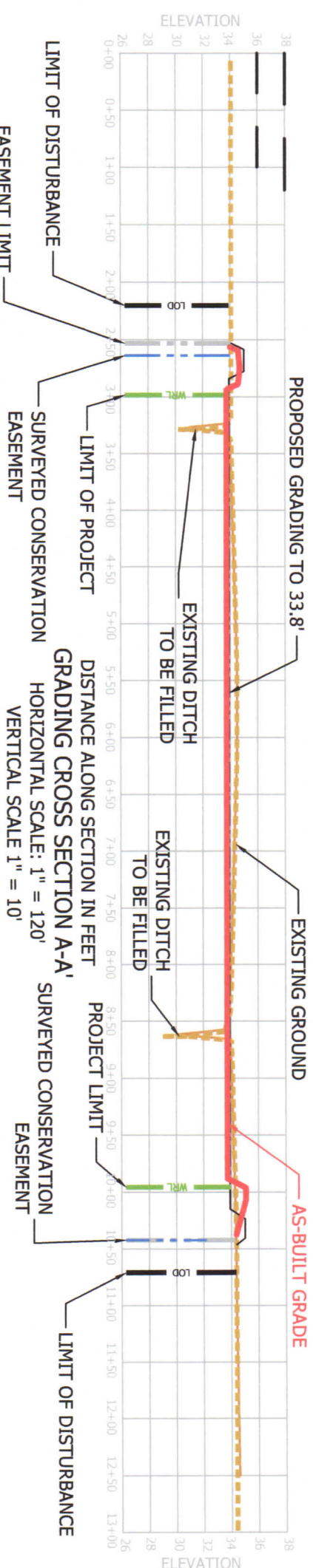
ALBEMARLE RESTORATIONS, LLC
 WETLAND RESTORATION, STREAM RESTORATION, & WILDLIFE HABITAT CREATION
 P.O. BOX 176 • FAIRFIELD, NC 27826
 (252) 333-0249 • FAX (252) 926-9983

HOFLEER PROPERTY
 AS-BUILT GRADING OVERVIEW
 23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628



DATE	DESCRIPTION	REV. BY
FEB. 2014	AWARDED PER AGREEMENT PER COMMENTS	WV
APRIL 2014	AWARDED PER COMMENTS	CKA
JAN 2015	AWARDED PER COMMENTS	CRH
	AS-BUILT	JBM

PROJECT MANAGER: JBM
 DESIGNER: JBM
 DRAWN: WLV
 PROJECT NO: 1270
 DATE: AUGUST, 2013
 SHEET: SHEET G-5

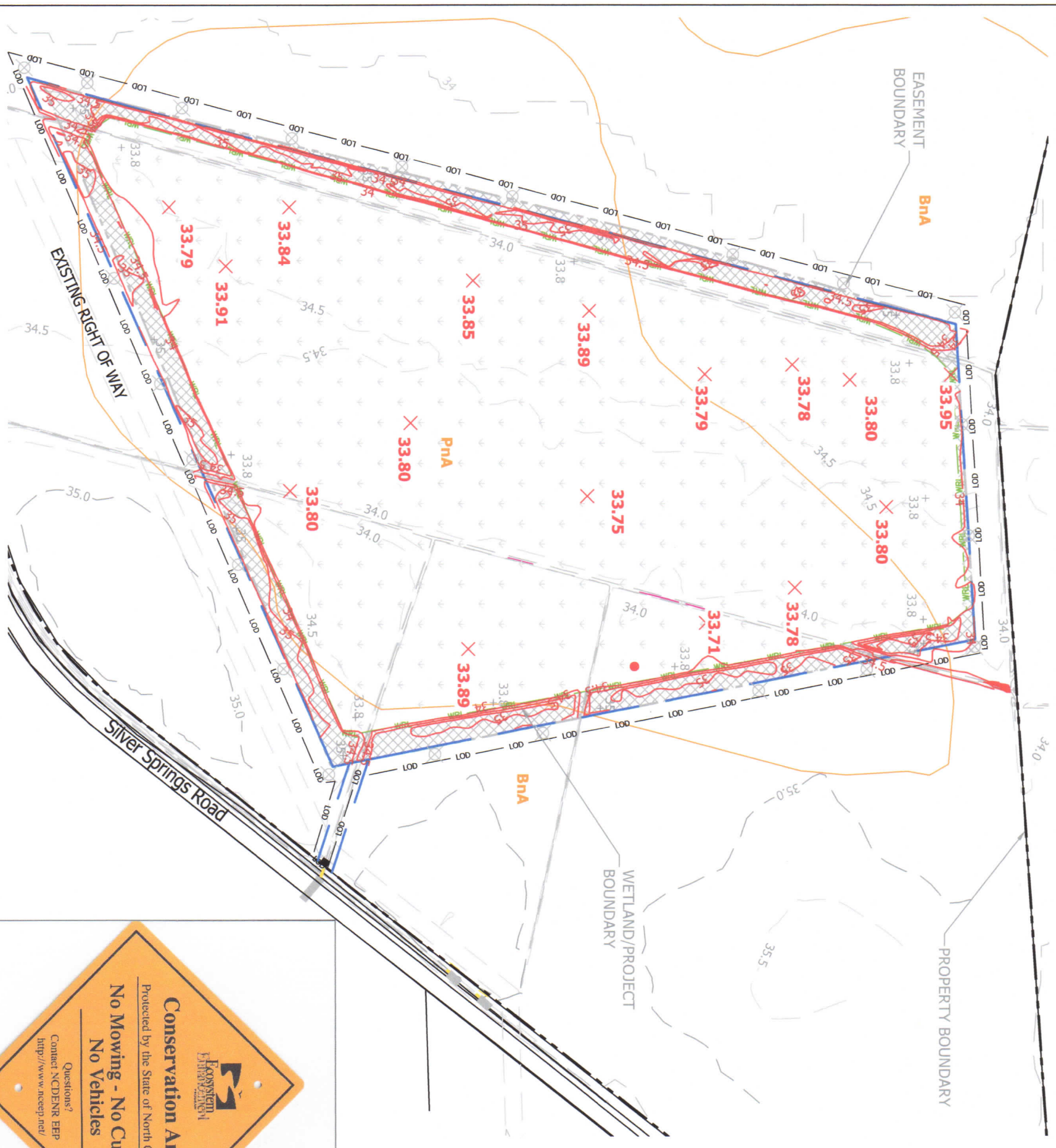


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 (252) 333-0249 • FAX (252) 926-9983

HOFLEER PROPERTY
 AS-BUILT CROSS SECTIONS
 23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628



REVISIONS	
DATE	DESCRIPTION
FEB 2014	DESIGNED PER W/V
APRIL 2014	AS-BUILT PER CKK
JAN 2015	AS-BUILT PER CBH
PROJECT MANAGER: JBM	
DESIGNED: JBM	
DRAWN: W/V	
PROJECT NO: 1220	
DATE: AUGUST 2013	
SHEET: SHEET D-1	



BOUNDARY MARKING PLAN

SCALE: 1" = 200'

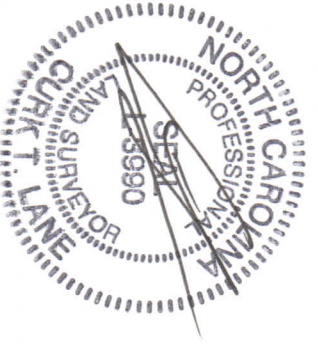


LEGEND

PROPERTY BOUNDARY	---
EXISTING CONTOURS (1' AND 0.5')	- - - - -
PROPOSED SPOT ELEVATIONS	+ 34
SOILS	BnA
EXISTING ROADS	— — — — —
PROJECT BOUNDARY	— — — — —
PROPOSED WETLAND RESTORATION EASEMENT	— — — — —
EXISTING R.O.W.	— — — — —
LIMIT OF DISTURBANCE	— — — — —
PROPOSED CULVERT	◆
PROPOSED BOUNDARY SIGN LOCATION	⊗
PROPOSED NON-RIPARIAN PLANTING AREA	□
PROPOSED WETLAND BUFFER	▨
AS-BUILT CONTOURS (1' AND 0.5')	— 34 —
AS-BUILT SPOT	+ 34.5
SURVEYED CONSERVATION EASEMENT	— — — — —



BOUNDARY SIGN DETAIL



- 1) The Provider shall set 5/8" rebar 30" in length with 3-1/4" aluminum caps on all easement corners. Caps shall meet EEP specifications (Bentzen RBD5325 Imprinted with NC State Logo # B9087 or equivalent). After installation, caps shall be stamped with the corresponding number from the table of coordinates contained in the project conservation easement.
- 2) The Provider shall place a 6-foot tall durable witness post at each corner in the conservation easement boundary. Posts shall be made of material that will last a minimum of 20 years. The Provider shall attach a conservation easement sign to each witness post and place additional signs at no more than 200-foot intervals on long boundary lines.

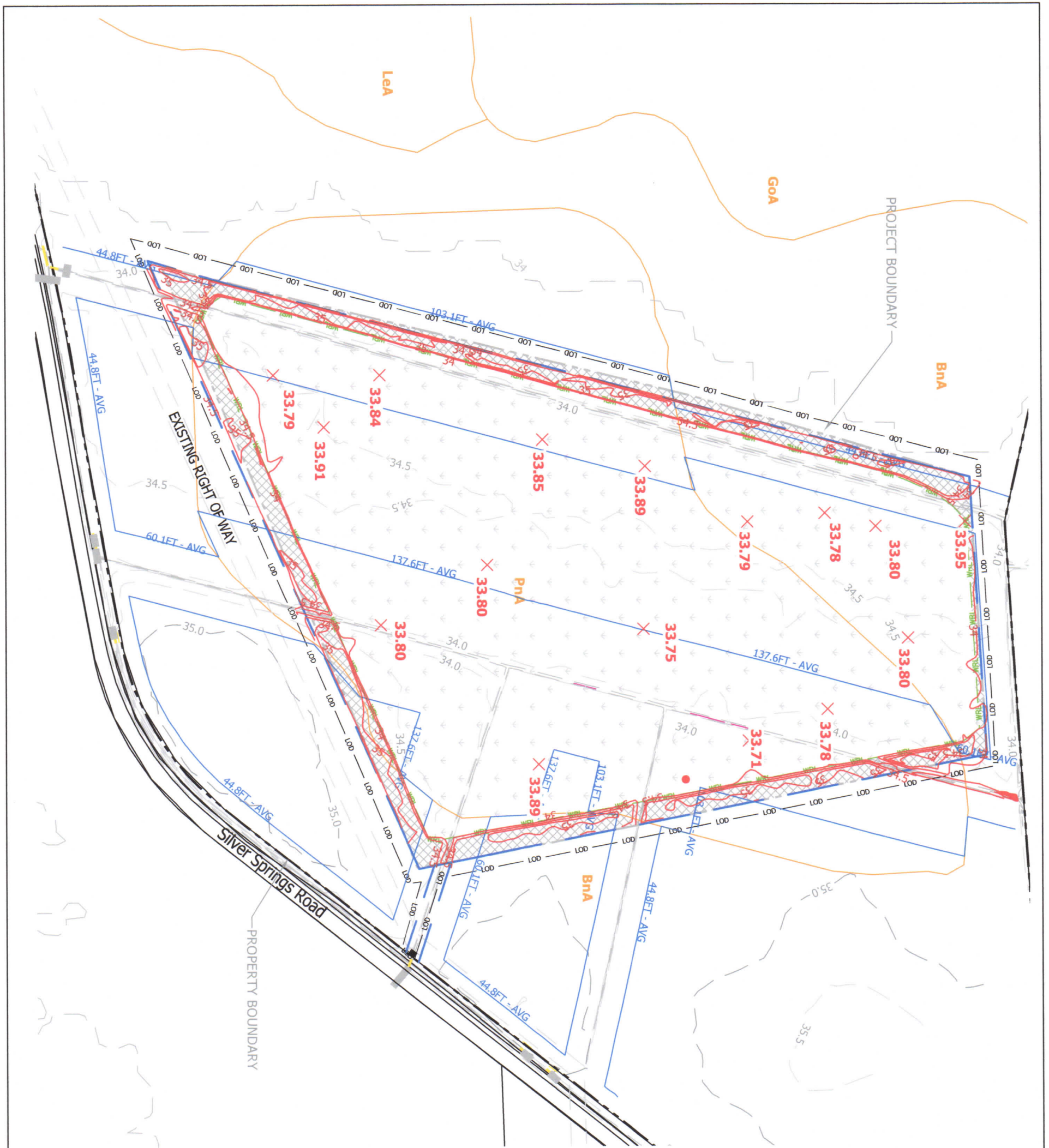
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HOFLEER PROPERTY
AS-BUILT BOUNDARY MARKING PLAN
 23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628



REVISIONS	
DATE	DESCRIPTION
FEB. 2014	ISSUED PER NCEEP COMMENTS
DESIGNED	JMM
DRAWN	JMM
PROJECT NO.	1270
DATE	AUGUST 2013
SHEET:	

SHEET B-1

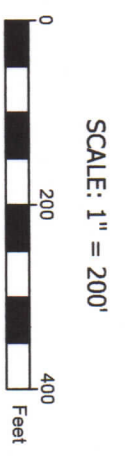


LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS (1' AND 0.5')
- PROPOSED SPOT ELEVATIONS + 34
- SOILS
- EXISTING ROADS
- PROJECT BOUNDARY
- PROPOSED WETLAND RESTORATION EASEMENT
- EXISTING R.O.W.
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
- LATERAL EFFECT ANALYSIS (AVERAGE)
- PROPOSED NON-RIPARIAN PLANTING AREA
- PROPOSED WETLAND BUFFER
- AS-BUILT CONTOURS (1' AND 0.5')
- AS-BUILT SPOT + 34.5
- SURVEYED CONSERVATION EASEMENT



EXISTING LATERAL EFFECT ANALYSIS



ALBEMARLE RESTORATIONS, LLC
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HOFLER PROPERTY
 AS-BUILT LATERAL EFFECT ANALYSIS
 23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628



REVISIONS	
DATE	DESCRIPTION

PROJECT MANAGER: XXXX
 DESIGNED: XXXX
 DRAWN: WJV
 PROJECT NO: 1270
 DATE: AUG. 2013
 SHEET: SHEET LE-1

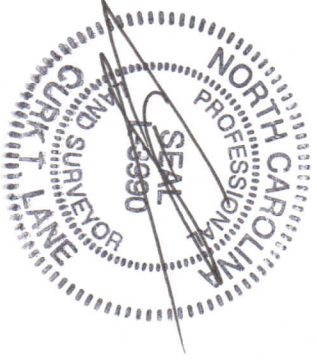


MAPPED SOILS

Bna	Bladen loam, 0-3% slopes
Pna	Pantego fine sandy loam, 0-2% slopes

PLANTING PLAN

SCALE: 1" = 200'



DATE	DESCRIPTION	REV. BY
12/14/2014	MANAGED PER NCEP COMMENTS	WAY
REVISIONS		
PROJECT MANAGER	JBM	
DESIGNED	JBM	
DRAWN	WAY	
PROJECT NO.	1270	
DATE	AUGUST, 2013	
SHEET:		



HOFLE PROPERTY
AS-BUILT PLANTING PLAN
23.0 NON-RIPARIAN WMU'S
 GATES CO., NC
 EEP PROJECT ID: 95355
 EEP CONTRACT #: 004628

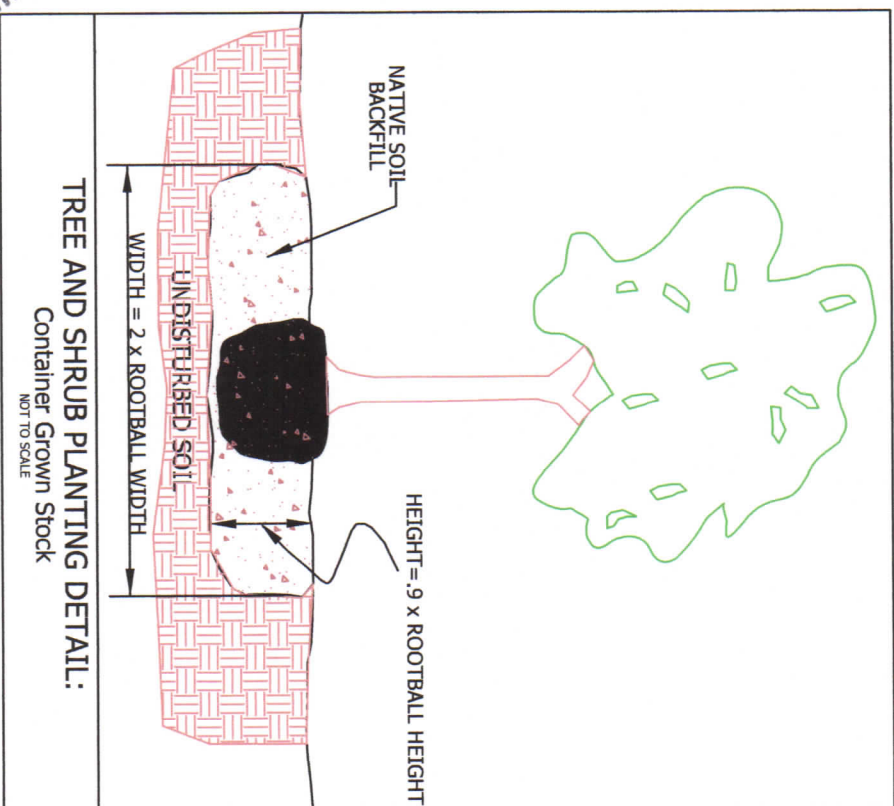
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 P.O. BOX 176 • FAIRFIELD, NC 27826
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PERMANENT WETLAND SEED MIX: 23 ACRES

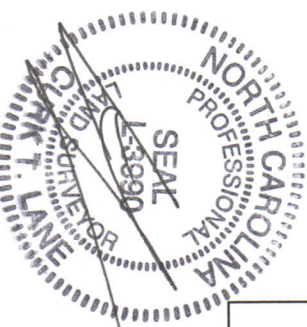
Botanical Name	Common Name	Min. % Purity	Min. % Germ.	% of Mix by weight	Seeding Rate (lbs/lac)
<i>Triticum aestivum</i>	Winter Wheat (Sept. 1 - April 30)	90	85	90.5	50
<i>Panicum Ramosum</i>	Browntop Millet (May 1 - Aug. 31)	90	85		25
<i>Agrostis alba</i>	Redtop	90	85	.013	0.75
<i>Panicum virgatum</i>	Switch Grass	90	85	.013	0.75
<i>Agrostis stolonifera</i>	Creeping Bentgrass	90	85	.013	0.75
<i>Elymus virginiana</i>	Wild Rye Grass	90	85	.013	0.75
<i>Peltandra virginica</i>	Arrow Arum	90	85	.052	0.30
<i>Setaria geniculata</i>	Foxtail Grass	90	85	.005	0.20
<i>Tripsacum dactyloides</i>	Eastern Gamma Grass	90	85	.005	0.20
<i>Echinochloa muricata</i>	Barryard Grass	90	85	.005	0.20
<i>Zizania aquatica</i>	Wild Rice	90	85	.005	0.20
<i>Carex vulpinoidea</i>	Fox Sedge	90	85	.005	0.20
<i>Polygonum pensylvanicum</i>	Penn. Smartweed	90	85	.005	0.20
<i>Sparganium americanum</i>	Eastern Bur Reed	90	85	.005	0.20
<i>Scirpus americana</i>	3-Square Bulrush	90	85	.0009	0.05
<i>Scirpus validus</i>	Soft Stem Bulrush	90	85	.0009	0.05
<i>Pontederia cordata</i>	Pickereel Weed	90	85	.0009	0.05
<i>Eleocharis obtusa</i>	Blunt Spike Rush	90	85	.0009	0.05
<i>Carex lurida</i>	Lurid (Shallow) Sedge	90	85	.0009	0.05
<i>Juncus effusus</i>	Soft Rush	90	85	.0009	0.05
<i>Scirpus cyperinus</i>	Wool Grass	90	85	.0009	0.05
<i>Leersia oryzoides</i>	Rice Cutgrass	90	85	.0009	0.05
Total 100%					55.2 lbs/lac

Quantity	Common Name	Scientific Name	Containerized	Bare Root	Spacing
1,100	Willow Oak	Quercus phellos	1 gallon		11X8
1,000	Willow Oak	Quercus phellos		2' - 4'	11X8
350	Swamp White Oak	Quercus bicolor	3 gallon		11X8
650	Swamp White Oak	Quercus bicolor	1 gallon		11X8
1,300	Swamp White Oak	Quercus bicolor		2' - 4'	11X8
670	Water oak	Quercus nigra	3 gallon		11X8
330	Water oak	Quercus nigra	1 gallon		11X8
700	Water oak	Quercus nigra		2' - 4'	11X8
1,250	Bald Cypress	Taxodium distichum	1 gallon		11X8
800	Bald Cypress	Taxodium distichum		2' - 4'	11X8
1,250	Swamp Chestnut Oak	Quercus michauxii	1 gallon		11X8
1,300	Swamp Chestnut Oak	Quercus michauxii		2' - 4'	11X8
500	Button Bush	Cephalanthus occidentalis		as available	11X8
500	Sweet Bay	Magnolia virginiana		as available	11X8
500	Wax Myrtle	Myrica cerifera		as available	11X8
500	Laurel Oak	Quercus laurifolia	tublings		11X8
12,700	Total Stems				
552	Stems per Acre				

Row spacing 11 feet on center, tree spacing within rows 8 feet on center



TREE AND SHRUB PLANTING DETAIL:
Container Grown Stock
NOT TO SCALE

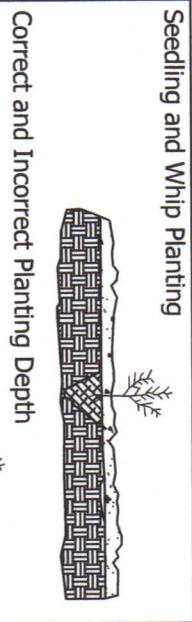


SITE INFORMATION (not for bidding purposes)

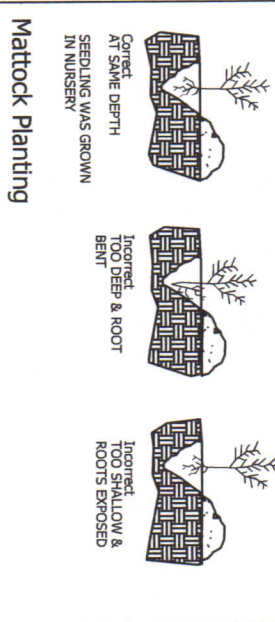
Total Area of Wetlands	23	Acres
Area Disturbed	27	Acres
Area to be Roofed or Paved	0	Acres
Total Cut	13,069	Cu. Yds.
Total Fill	6,872	Cu. Yds.
Offsite Waste/Borrow Area Location (TBD)	6,197	Cu. Yds.

UTILITY NOTIFICATION

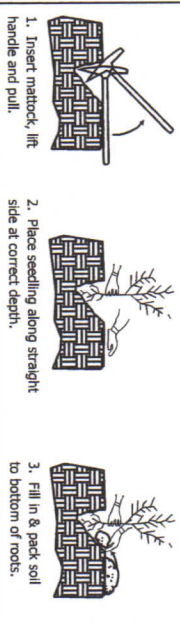
"Albemarle Restorations, LLC makes no representation as to the existence or non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities. It is suggested that NC One-Call Center be contacted at: 1-800-632-4949."



Seedling and Whip Planting



Correct and Incorrect Planting Depth



Note: Mulching newly planted seedlings helps the soil retain water and protects the seedling from compaction and stem injuries.
Source: Adapted from Forest Conservation Manual, 1991

Seedling and Whip Planting Techniques

ALBEMARLE RESTORATIONS, LLC
WETLAND RESTORATION, STREAM RESTORATION, & WILDLIFE HABITAT CREATION
P.O. BOX 176 • FAIRFIELD, NC 27826
(252) 333-0249 • FAX (252) 926-9983

HOFLE PROPERTY
AS-BUILT PLANTING DETAILS
23.0 NON-RIPARIAN WMU'S
GATES CO., NC
EEP PROJECT ID: 95355
EEP CONTRACT #: 004628



DATE	DESCRIPTION	REV. BY
FEB. 2014	DESIGNED PER	WJV
APRIL 2014	REVISED PER	CKA
	INTEGR COMMENTS	

PROJECT MANAGER	JBM
DESIGNED	JBM
DRAWN	WJV
PROJECT NO.	1270
DATE	AUG. 2013
SHEET:	

SHEET P-2