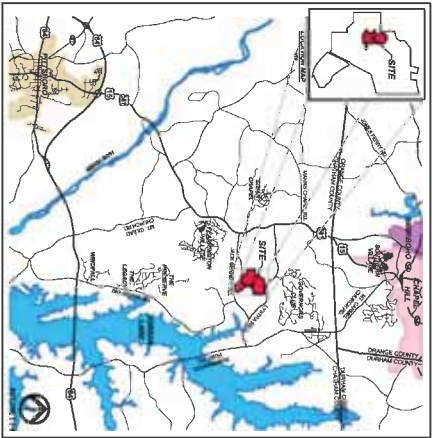


CONSTRUCTION PLANS FOR WESTFALL PHASE 2A

CHATHAM COUNTY, NORTH CAROLINA
APRIL 12, 2013
REVISED: MAY 20, 2013



VICINITY MAP
M/S

INDEX TO DRAWINGS

COVER	1
EXISTING CONDITIONS PLAN	2
UTILITY PLAN	3
PHASE 1 EROSION CONTROL PLAN	4
PHASE 1A EROSION CONTROL PLAN	4A
PHASE 2 EROSION CONTROL PLAN	5
LYSTRA RIDGE ROAD PLAN & PROFILE	6
LYSTRA GRANT COURT PLAN & PROFILE	7
SEWER DETAILS	8-9
WATER DETAILS	10-11
EROSION CONTROL DETAILS	12
STORMWATER POND DETAILS	13
	14-16

GENERAL NOTES

1. EXISTING IN-PROGRESSING STRUCTURES AND UTILITIES SHALL BE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ANY OBSTRUCTIONS.
2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-662-8488.
3. ALL WATER UTILITY CONSTRUCTION SHALL COMPLY TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL COMPLY TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
5. THE EXISTING PROPERTY IS LOCATED IN A FLOOD HAZARDOUS AREA PER FEMA FIRM 1305002C. THE CONTRACTOR SHALL VERIFY THE EXISTING FLOOD HAZARD ZONING IS TO BEING. ANY CHANGES IS SCHEDULED ON BEFORE ANY PERM IS ISSUED.



CE GROUP
301 GLENWOOD AVE, SUITE 220
RALEIGH, NC 27603
PHONE: 919-367-8790
www.cegroupinc.com

PROPERTY OWNER
WESTFALL ASSOCIATES, LLC
140 TOWNVIEW COURT
DANFORTH, NC 27619
CONTACT: COLLEEN WILSON
PHONE: (919) 463-9940 EXT. 104



STOP!
BEFORE YOU DO CALL
THE NC ONE CALL CENTER
1-800-662-8488
183 THE LAWN

FINAL DRAWINGS
FOR REGULATORY
REVIEW ONLY
NOT RELEASED
FOR CONSTRUCTION

NO.	REVISIONS	DATE
3	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
1	REVISED PER AQUA OF NC COMMENTS.	04/22/13

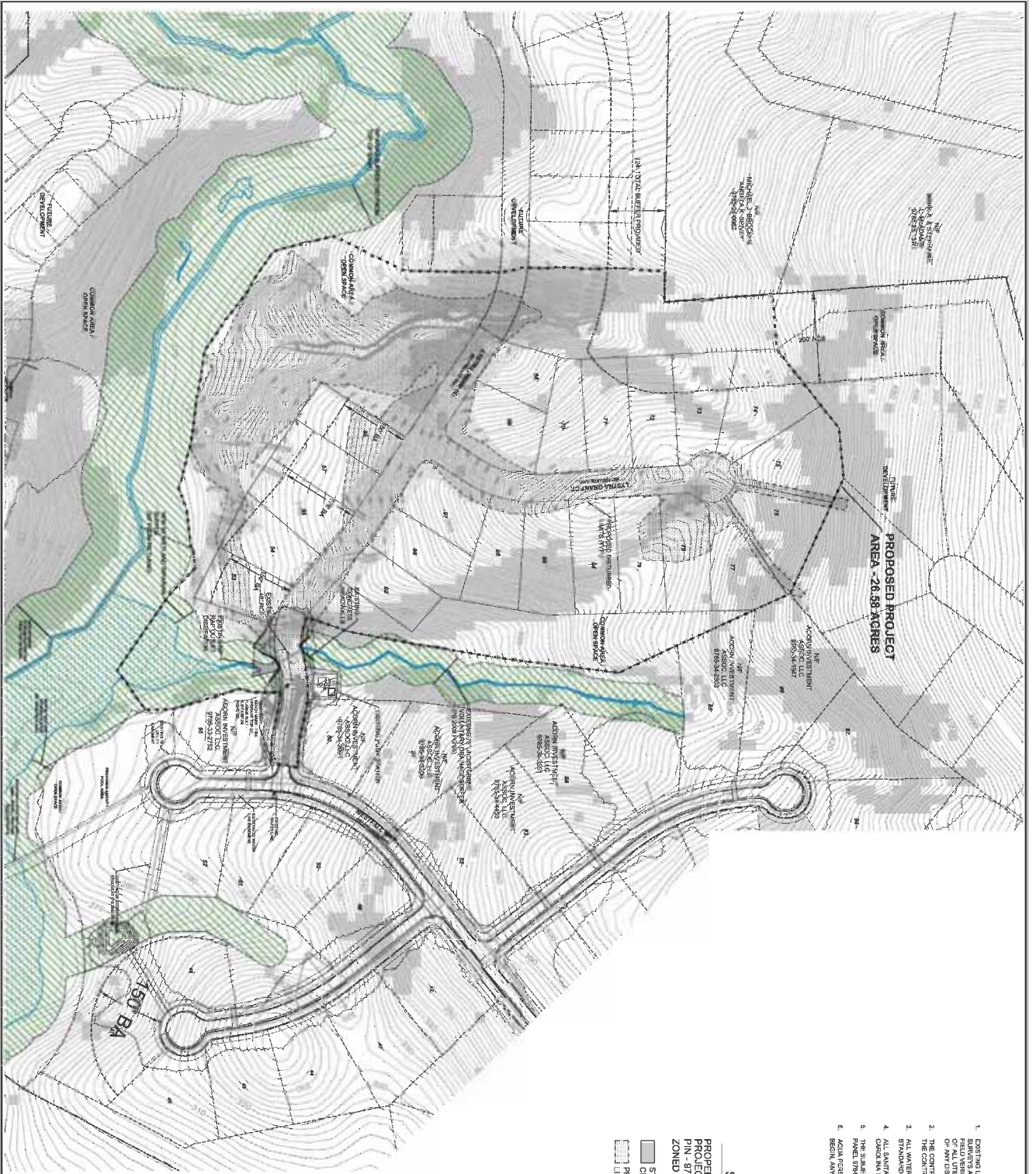
CE GROUP
301 GLENWOOD AVE, SUITE 220
RALEIGH, NC 27603
PHONE: 919-367-8790
www.cegroupinc.com



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
COVER
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

DATE	APRIL 12, 2013
SCALE	
TITLE	ACS
DRAWN BY	AKF
CHECKED BY	
PROJECT NO.	803.12
CONTRACTOR'S NAME	301 GLENWOOD AVE, SUITE 220, RALEIGH, NC 27603

SHEET NO.	1
TOTAL SHEETS	16



GENERAL NOTES

1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 800-422-4448, AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARD SPECIFICATIONS FOR WATER UTILITY CONSTRUCTION.
4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO ADAS OF NORTH CAROLINA STANDARD SPECIFICATIONS.
5. THE SUBJECT PROPERTY IS LOCATED IN A 100' FLOOD HAZARD AREA PER FEMA FIRM PANEL 9704 MAP NUMBER 97099010L DATED FEBRUARY 2, 2007.
6. ADAS PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN. ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.

SITE DATA

PROPERTY AREA - 1,08.44 ACRES
 PROJECT AREA - 26.58 ACRES
 PIN: 97-05-500-001 for PRD
 ZONED R-1 W/ OUP for PRD

- STEEP SLOPE AREA (PER CHATHAM COUNTY GIS)
- PROPOSED DISTURBED LIMITS



FINAL DRAWINGS FOR REGULATORY REVIEW ONLY NOT RELEASED FOR CONSTRUCTION



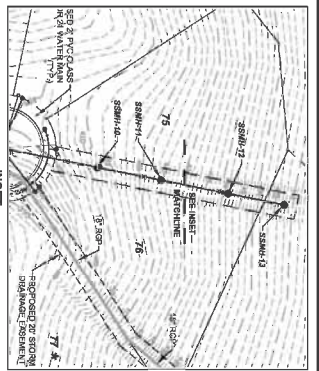
NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS.	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
3	REVISED PER AQUA OF NC COMMENTS.	04/22/13

CE GROUP
 301 GLENWOOD AVE 2ND
 FAYETTEVILLE, NC 27033
 PH: 319-322-0022
 WWW.CEGROUPINC.COM
 License # C-17130



**WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 EXISTING CONDITIONS PLAN
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA**

DATE: APRIL 12, 2012
 SCALE: 1" = 60'
 DRAWN: ACS
 CHECKED: ALP
 PROJECT NO.: 12
 COMPANY: CE GROUP



LEGEND

—	2" WATER MAIN	◆	FIRE HYDRANT
—	6" WATER MAIN	⊥	WATER VALVE
—	SEWER FORCE MAIN	◀	REDUCER
—	REINFORCED CONCRETE PIPE STORM DRAINAGE	—○	WATER SERVICE
—	RISER / YARD INLET	—○	SEWER SERVICE
—	CURB INLET	●	SEWER MANHOLE
—	FLARED END SECTION	⊗	PLUG / END CAP
—		⊗	AIR RELEASE VALVE

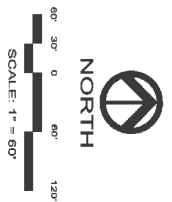
GENERAL NOTES

- EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHALL BE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ANY DISCREPANCIES. A NOTING CONSTRUCTION SHALL BE PROVIDED.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-622-4444.
- ALL WATER UTILITY CONSTRUCTION SHALL COMPLY TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL COMPLY TO ASIA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM 15050C001. THE CONTRACTOR SHALL VERIFY THE EXISTING FLOOD HAZARD ELEVATIONS TO BEIN. ANY CHANGES ARE TO BE NOTED ON THE DRAWINGS.

NOTES

- ANY LOT WHICH CONNECTS TO THE EXISTING SANITARY SEWER VIA A GRABBY SERVICE CONNECTION WILL REQUIRE A SEWER BACKFLOW VALVE. IF THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UTILITY MANHOLE BSM ELEVATION.
- WHEREVER LOCAL SMALL PLOT LOTS MAY REQUIRE INDIVIDUAL GRABBY PUMP STATION INSTALLATION AND CONNECTION TO SANITARY SEWER SERVICE LINE.
- REFER TO RECORD PLAN / PREPARED FOR DETAIL UTILITY IMPROVEMENT.

FINAL DRAWINGS
FOR REGULAR AGENCY REVIEW ONLY
NOT RELEASED FOR CONSTRUCTION



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
OVERALL UTILITY PLAN
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

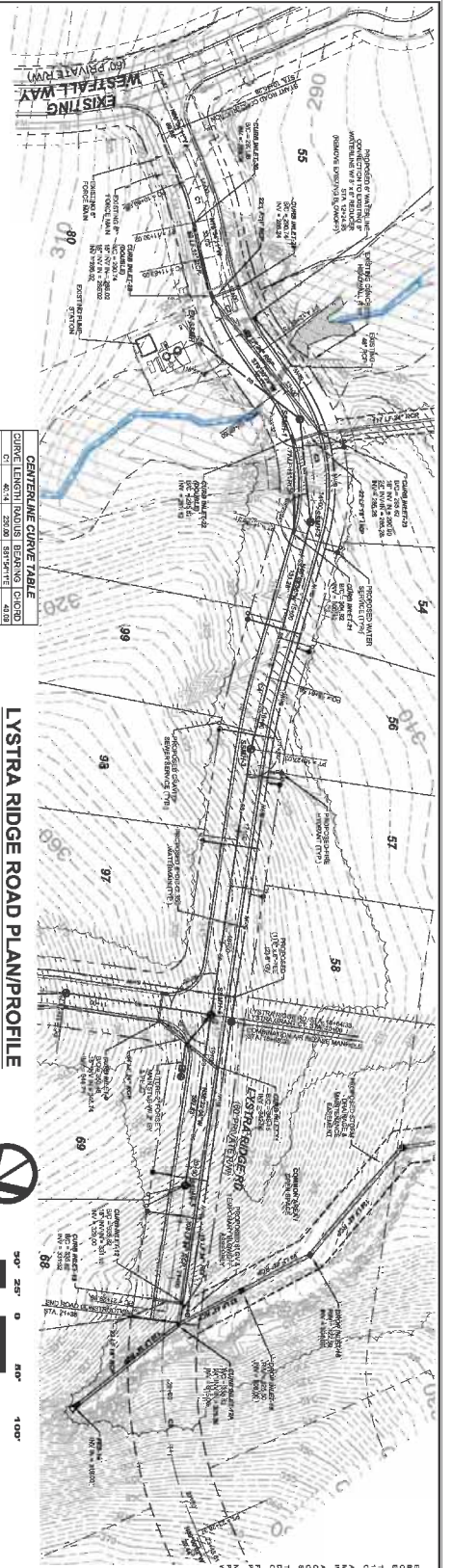


CE GROUP
307 GLENWOOD AVE 2ND
FARMINGTON NC 27504
PHONE: 919-282-2222
FAX: 919-282-0222
www.cegroupinc.com
License # C-1739

NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/20/13
3	MISC. REVISIONS TO WATER AND STORM SER.	04/22/13
4	REVISED PER AQUA OF NC COMMENTS	04/22/13

Sheet No: **3** OF 1

DATE: APRIL 12, 2013
SCALE: 1" = 60'
DRAWN: ACS
CHECKED: ALP
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COMPUTER FILE NAME: 081112.dwg
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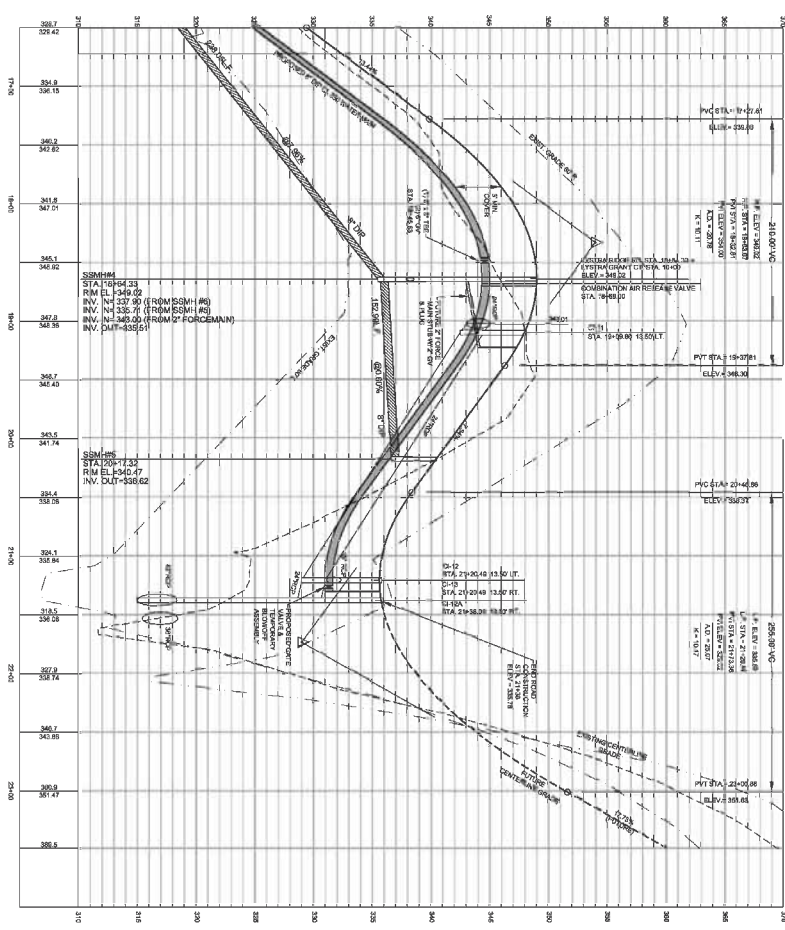
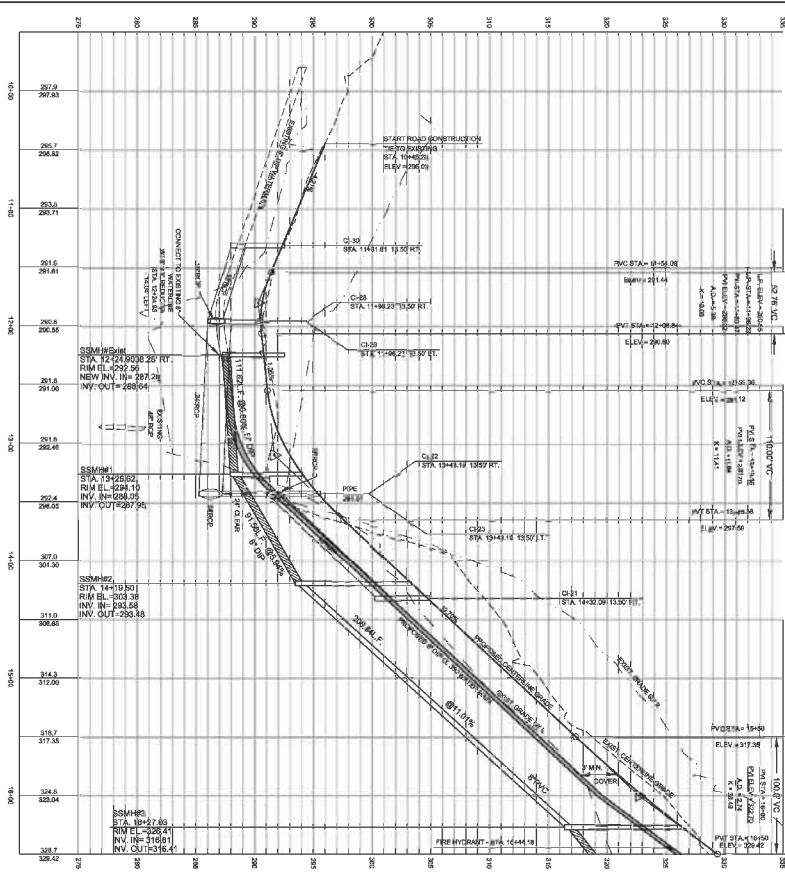


CENTRALINE CURVE TABLE

Curve Length (Feet)	Radius (Feet)	Stationing
120	1200	1+00.00 to 1+120.00
120	1200	1+120.00 to 1+240.00
120	1200	1+240.00 to 1+360.00
120	1200	1+360.00 to 1+480.00
120	1200	1+480.00 to 1+600.00
120	1200	1+600.00 to 1+720.00
120	1200	1+720.00 to 1+840.00
120	1200	1+840.00 to 1+960.00
120	1200	1+960.00 to 1+080.00
120	1200	1+080.00 to 1+200.00

LYSTRA RIDGE ROAD PLAN/PROFILE

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'



FINAL DRAWINGS
FOR REGULATORY
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FOR CONSTRUCTION

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS REVISIONS TO WATER AND STORM.
2. ALL UTILITIES SHALL BE DEEPENED TO A MINIMUM OF 48" COVER UNLESS OTHERWISE NOTED.
3. ALL UTILITIES SHALL BE PROTECTED BY CONCRETE CURBS AND GUTTERS.
4. ALL UTILITIES SHALL BE PROTECTED BY CONCRETE CURBS AND GUTTERS.
5. ALL UTILITIES SHALL BE PROTECTED BY CONCRETE CURBS AND GUTTERS.
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NO.	REVISIONS	DATE
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3	MISC. REVISIONS TO WATER AND STORM	04/22/13
4	REVISED PER AQUA OF NC COMMENTS	04/22/13

CE GROUP
301 GLENWOOD AVE 2ND
FLEMING NC 27520
PH: 919-326-0022
WWW.CEGROUP.COM
License # C-17-93



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
LYSTRA RIDGE RD PLAN/PROFILE
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

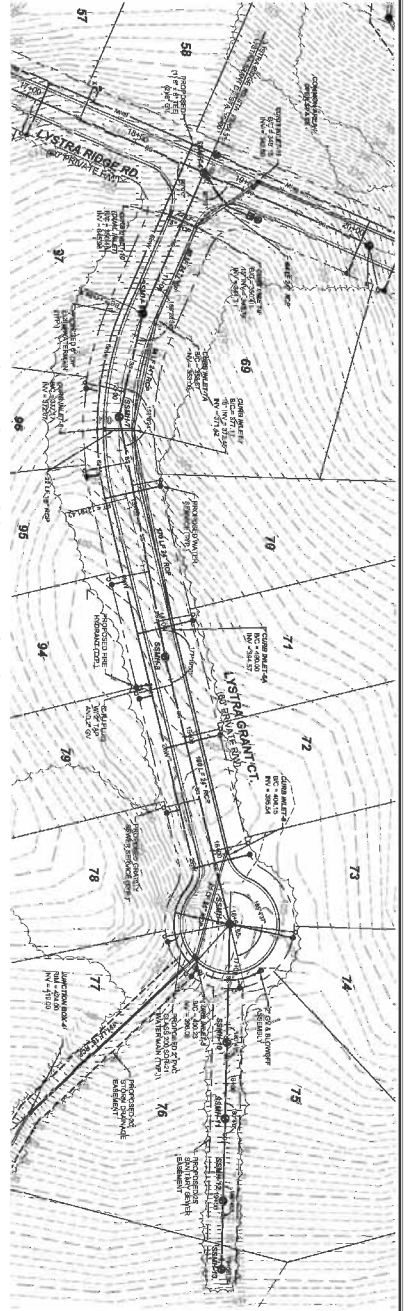
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COMPILED BY: [Name]
SHEET NO: 6 OF 1



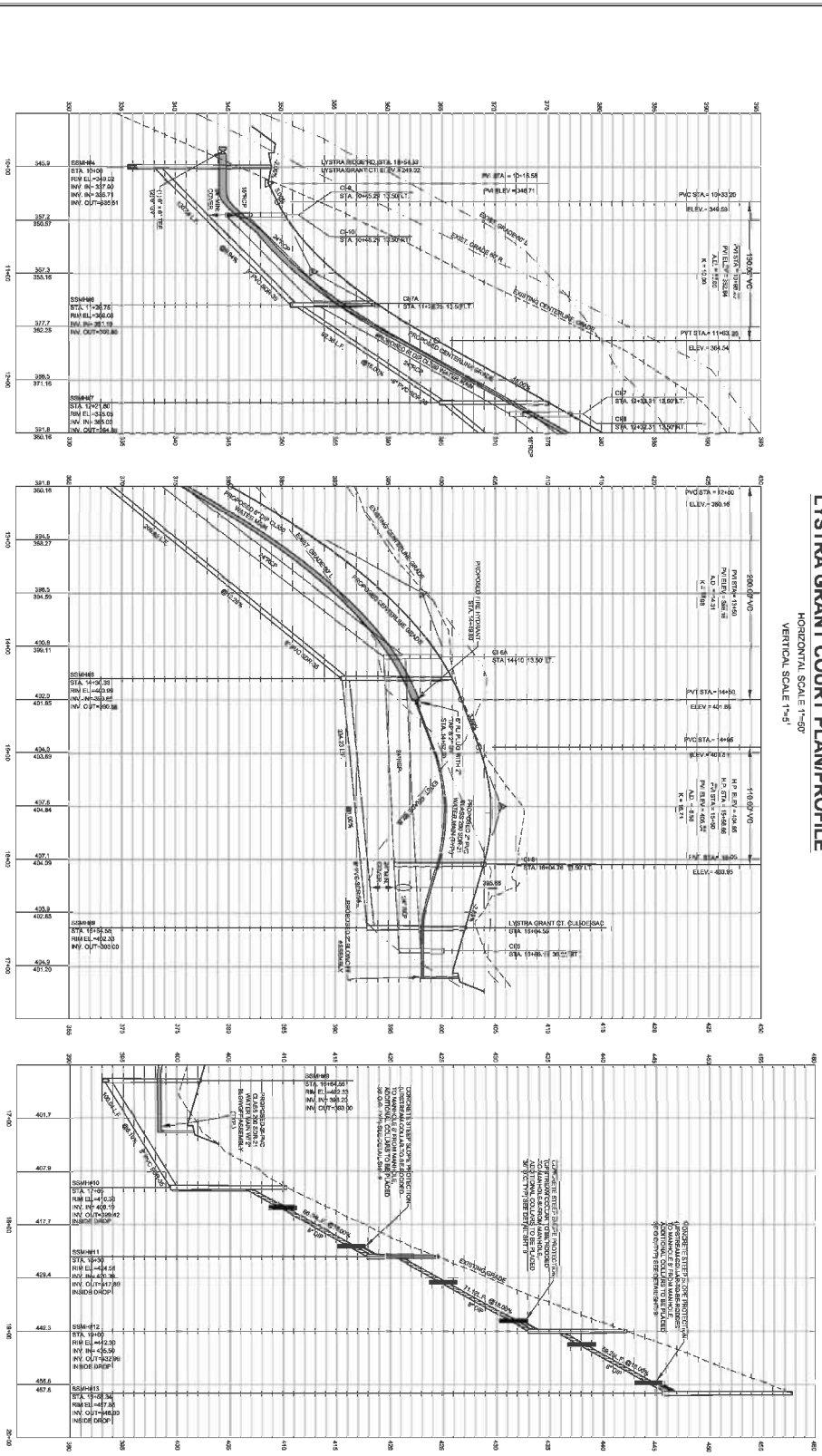
STOP
 BEFORE CALLING
 THE POLICE OR
 FIRE DEPARTMENT
 AT THE SCENE



50' 20' 0' 50' 100'
 SCALE: 1" = 50'



LYSTRA GRANT COURT PLAN/PROFILE
 HORIZONTAL SCALE 1"=50'
 VERTICAL SCALE 1"=5'

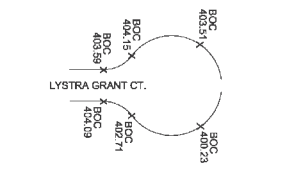


GENERAL CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL UTILITIES SHALL BE PROTECTED AND DEEPLY COVERED PRIOR TO CONSTRUCTION.
3. ALL UTILITIES SHALL BE DEEPLY COVERED PRIOR TO CONSTRUCTION.
4. ALL UTILITIES SHALL BE DEEPLY COVERED PRIOR TO CONSTRUCTION.
5. ALL UTILITIES SHALL BE DEEPLY COVERED PRIOR TO CONSTRUCTION.

FOR ALL DROP MANHOLES, AQA OF WHEN THE METERS ARE SET TO AVOID DAMAGE TO THE METERS. ALL METERS SHALL BE SET TO AVOID DAMAGE TO THE METERS. ALL METERS SHALL BE SET TO AVOID DAMAGE TO THE METERS.

FINAL DRAWINGS
 FOR REVIEW ONLY
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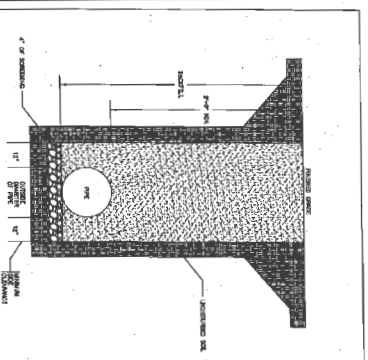
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 DRAWN: ACS
 CHECKED: ALP
 PROJECT: 1011-12
 SHEET NO: 7
 OF 1

WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 LYSTRA GRANT CT PLAN/PROFILE
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA



CE GROUP
 301 GLENWOOD AVE 220
 FAYETTEVILLE, NC 27033
 PHONE: 336-252-0022
 FAX: 336-252-0022
 WWW.CEGROUPINC.COM
 LICENSE # C-1739

NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/20/13
3	MISC. REVISIONS TO WATER AND STORM	04/22/13
4	REVISED PER AQA OF NC COMMENTS	04/22/13



1. WATER METER ASSEMBLY

1. THE WATER METER SHALL BE INSTALLED AS SHOWN IN THIS DETAIL.

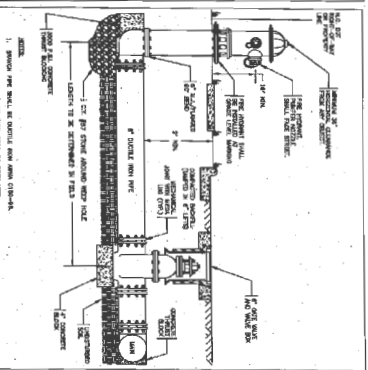
2. THE WATER METER SHALL BE INSTALLED IN A PROTECTED AREA TO PREVENT DAMAGE TO THE WATER METER.

3. THE WATER METER SHALL BE INSTALLED IN A PROTECTED AREA TO PREVENT DAMAGE TO THE WATER METER.

811

PROTECT EXISTING WATER MAINS

MAINTAIN EXISTING WATER MAINS AND SERVICE LINES AS SHOWN ON THE DRAWING.



1. VALVE ASSEMBLY

1. THE VALVE SHALL BE INSTALLED AS SHOWN IN THIS DETAIL.

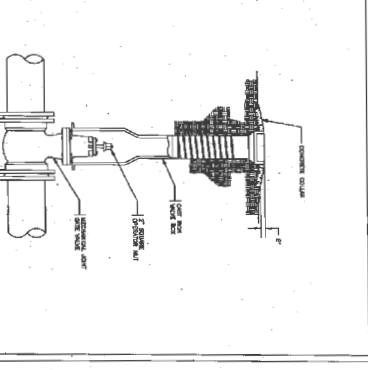
2. THE VALVE SHALL BE INSTALLED IN A PROTECTED AREA TO PREVENT DAMAGE TO THE VALVE.

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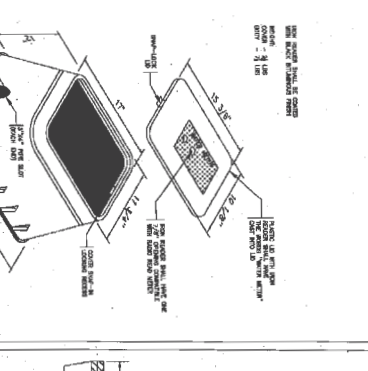
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811

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1. METER BOX

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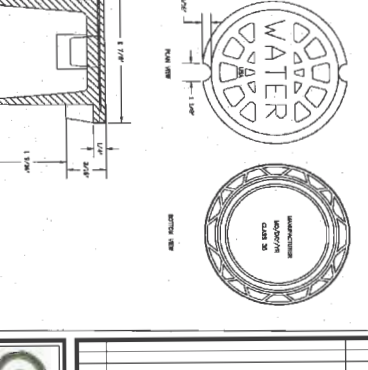
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811

PROTECT EXISTING WATER MAINS

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1. VALVE BOX COVER

1. THE VALVE BOX COVER SHALL BE INSTALLED AS SHOWN IN THIS DETAIL.

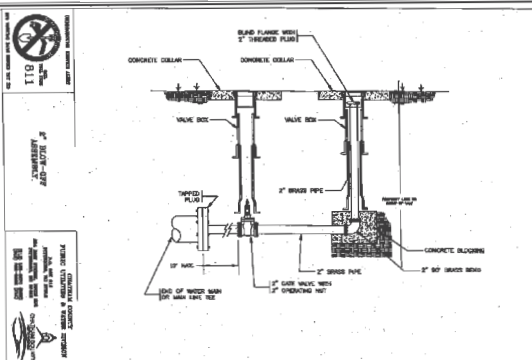
2. THE VALVE BOX COVER SHALL BE INSTALLED IN A PROTECTED AREA TO PREVENT DAMAGE TO THE VALVE BOX COVER.

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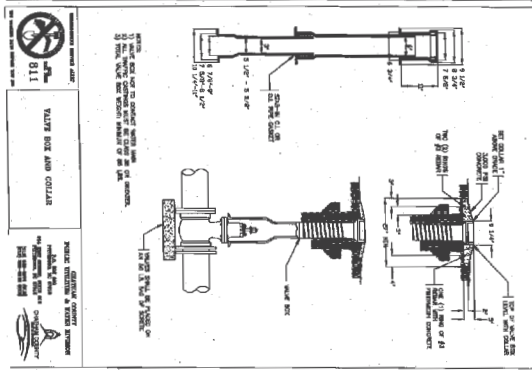
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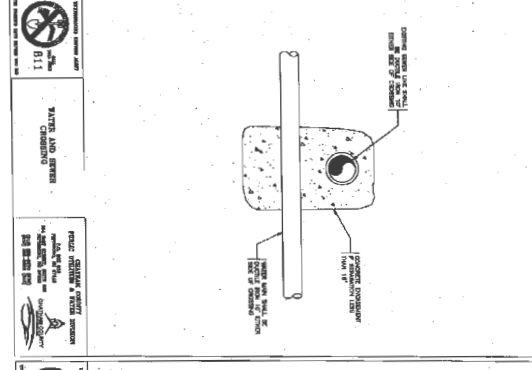
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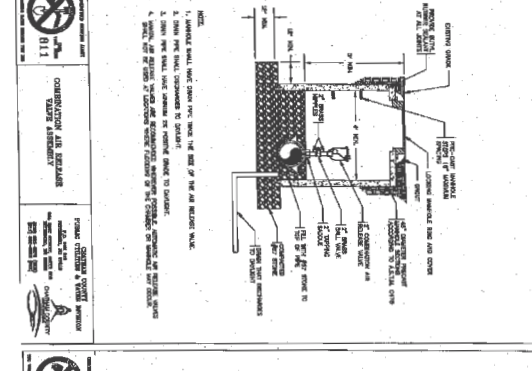
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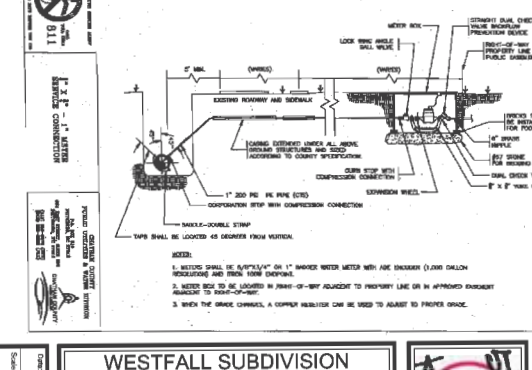
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811

PROTECT EXISTING WATER MAINS

MAINTAIN EXISTING WATER MAINS AND SERVICE LINES AS SHOWN ON THE DRAWING.

STOP!

BEFORE YOU BEGIN CALL THE ONE CALL CENTER ITS THE LAW!

FINAL DRAWINGS

FOR REGULATORY REVIEW ONLY NOT RELEASED FOR CONSTRUCTION

10

OF

WESTFALL SUBDIVISION

PHASE 2A CONSTRUCTION PLANS

WATER DETAILS

WILLIAMS TOWNSHIP

CHATHAM COUNTY, NORTH CAROLINA

CE GROUP

307 S. BROADWAY, SUITE 200

RALEIGH, NC 27601

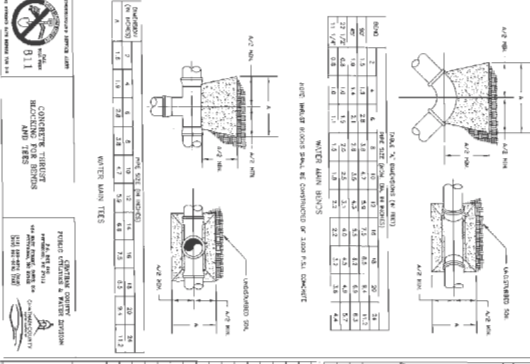
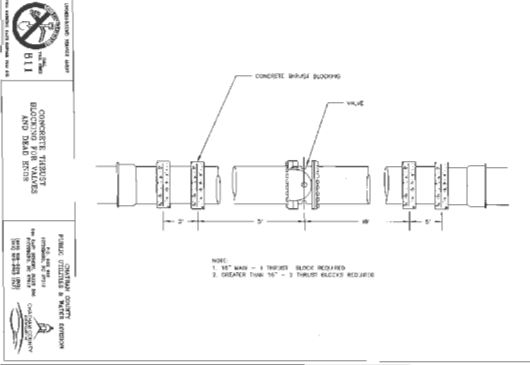
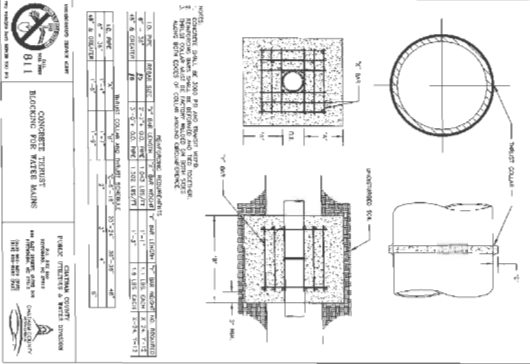
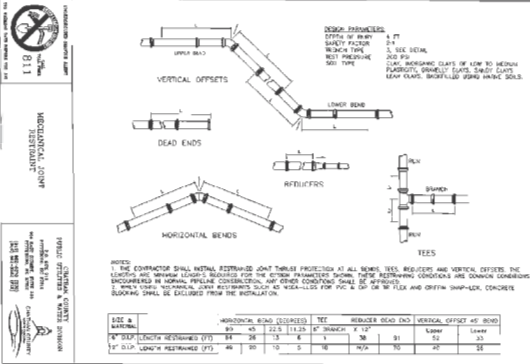
PHONE: 919.882.8100

FAX: 919.882.8102

WWW.CEGROUP.COM

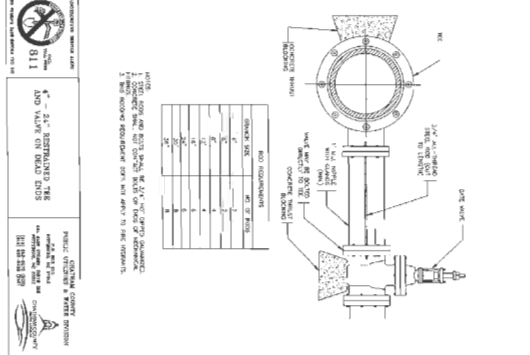
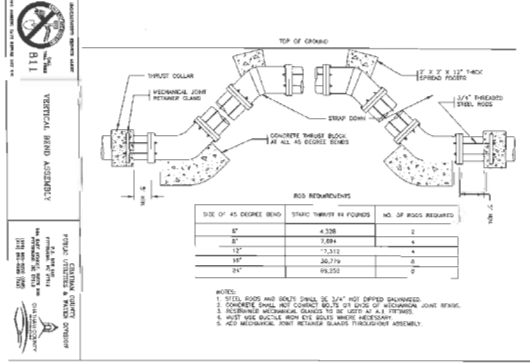
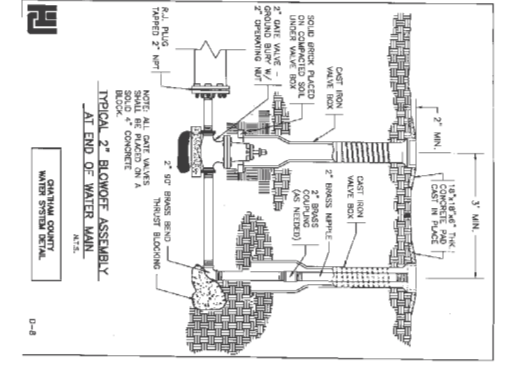
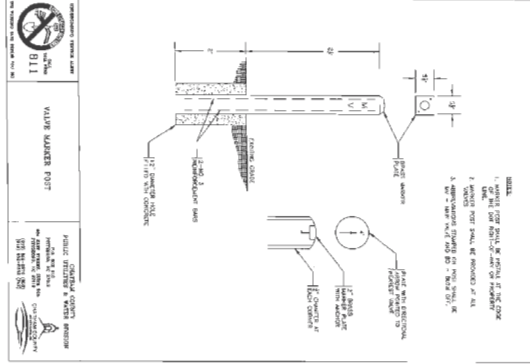
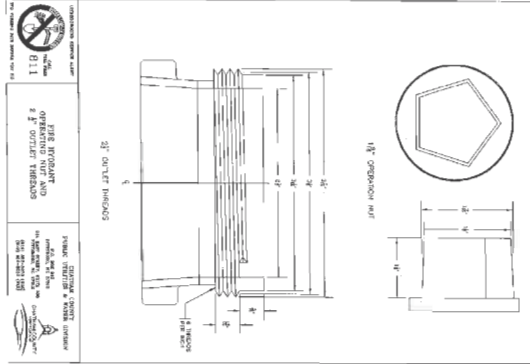
Licensed in CA 1730

NO.	REVISIONS	DATE
3	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	04/22/13
1	REVISED PER AQUA OF NC COMMENTS	05/20/13



SECTION: EXISTING ASPECT FOR MECHANICAL WATER PIPING

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
2	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
3	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
4	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
5	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
6	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
7	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
8	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
9	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
10	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
11	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
12	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
13	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
14	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
15	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
16	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
17	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
18	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
19	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
20	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
21	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
22	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
23	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
24	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
25	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
26	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
27	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
28	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
29	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00
30	1/2" DIA. GALV. STEEL PIPE	1	LINEAR FT.	1.00	1.00



STOP!
 BEFORE YOU BEGIN CALL THE NC ONE CALL CENTER AT 811.
FINAL DRAWINGS
 FOR REGISTRY REVIEW ONLY
 NOT RELEASED FOR CONSTRUCTION

NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
3	REVISED PER AQUA OF NC COMMENTS	04/22/13

WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
WATER DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

CE GROUP
 307 GLENWOOD AVE. 200
 RALEIGH, NC 27603
 PHONE: 919.522.0020
 WWW.CEGROUP.COM
 License # 8-C-1139

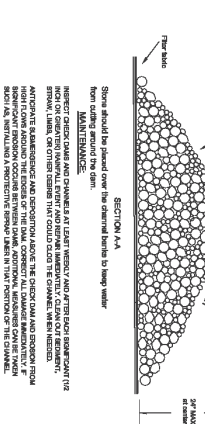
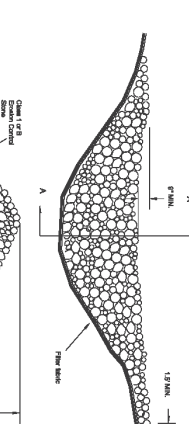
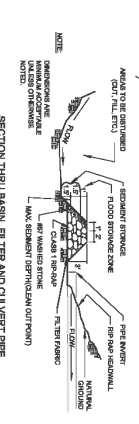
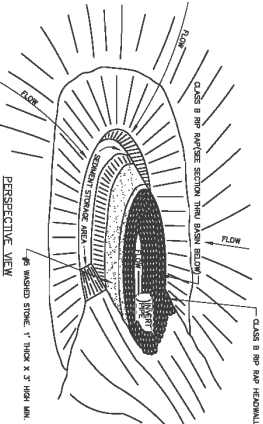
NO.	REVISIONS	DATE
1	REVISED PER CHATHAM CO. PUBLIC WORKS COMMENTS	05/20/13
2	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	05/08/13
3	REVISED PER AQUA OF NC COMMENTS	04/22/13

Seedbed Preparation:

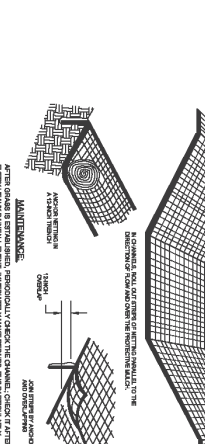
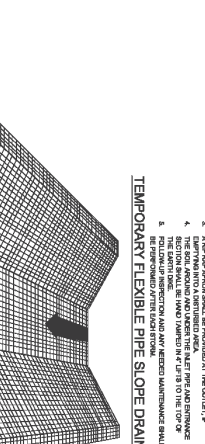
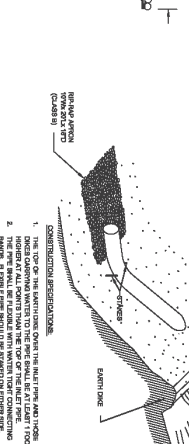
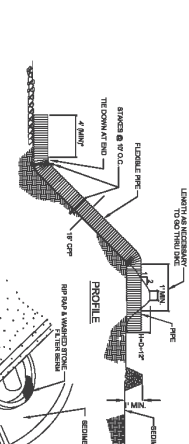
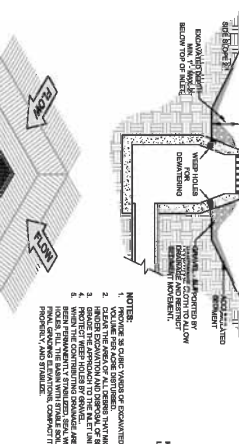
1. Seedbed preparation shall be completed prior to construction and completion of seedbed.
2. Seedbed preparation shall include the following:
 - a. Clearing of all vegetation and debris from the seedbed area.
 - b. Grading of the seedbed to the required elevation and slope.
 - c. Seeding of the seedbed with the required seed type and rate.
 - d. Fertilizing of the seedbed with the required fertilizer type and rate.
 - e. Watering of the seedbed to maintain adequate moisture.
3. The seedbed shall be inspected and approved by the Engineer prior to construction.
4. The seedbed shall be maintained until the vegetation is established and the erosion control measures are in place.

Seeding Schedule

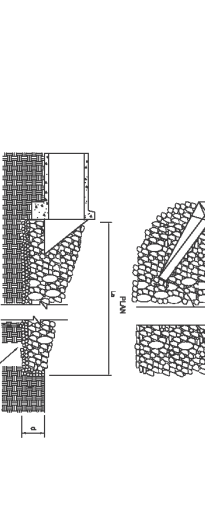
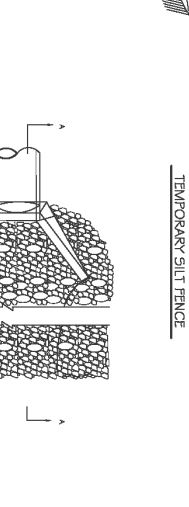
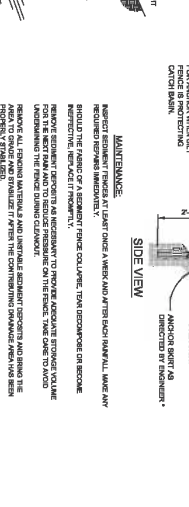
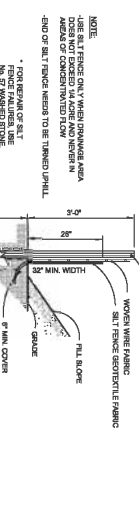
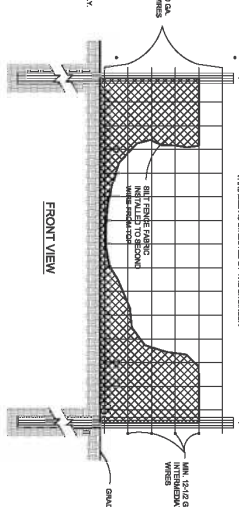
Item	Type	Part No.	Quantity
1. Seedbed	1000 sq. yds.	1000	1000
2. Seedbed	1000 sq. yds.	1000	1000
3. Seedbed	1000 sq. yds.	1000	1000
4. Seedbed	1000 sq. yds.	1000	1000
5. Seedbed	1000 sq. yds.	1000	1000
6. Seedbed	1000 sq. yds.	1000	1000
7. Seedbed	1000 sq. yds.	1000	1000
8. Seedbed	1000 sq. yds.	1000	1000
9. Seedbed	1000 sq. yds.	1000	1000
10. Seedbed	1000 sq. yds.	1000	1000



Excavated Area (As Required)



Front View



CONSTRUCTION SPECIFICATIONS:

1. LENGTH SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF 20 FEET INTO THE CHANNEL.
2. THE CHANNEL SHALL BE CONSTRUCTED WITH A MINIMUM OF 18 INCHES IN HEIGHT TO THE TOP OF THE RIP-RAP.
3. FILLER WHEN SET IN PLACE SHALL BE COMPACTED TO THE PROPER DENSITY AND SHALL BE A MINIMUM OF 9 INCHES TO THE TOP OF THE RIP-RAP.
4. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
5. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
6. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
7. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
8. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
9. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.
10. THE RIP-RAP SHALL BE PLACED IN A MINIMUM OF 3 LAYERS OF 9 INCHES EACH.

NOTES:

1. A GRANT HAS TO BE OBTAINED FROM THE STATE OF NORTH CAROLINA TO CONDUCT THIS PROJECT.
2. THE PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
3. THE PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
4. THE PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
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10. THE PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.

MAINTENANCE:

1. THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
2. THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
3. THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.
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10. THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF NORTH CAROLINA.

STOP!
BEFORE YOU DO, CALL THE NC ONE CALL CENTER AT 1-800-368-5888

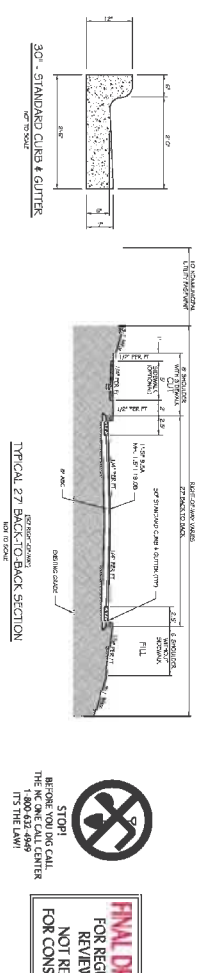
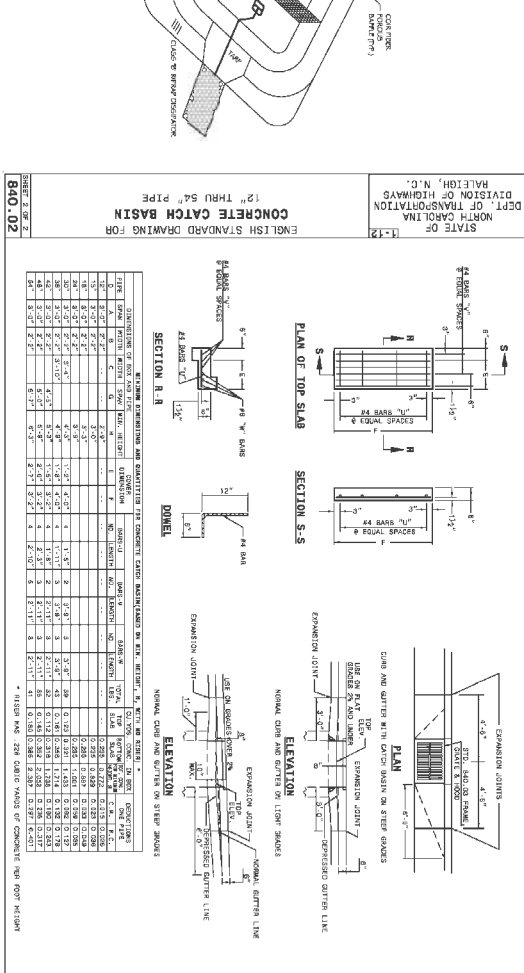
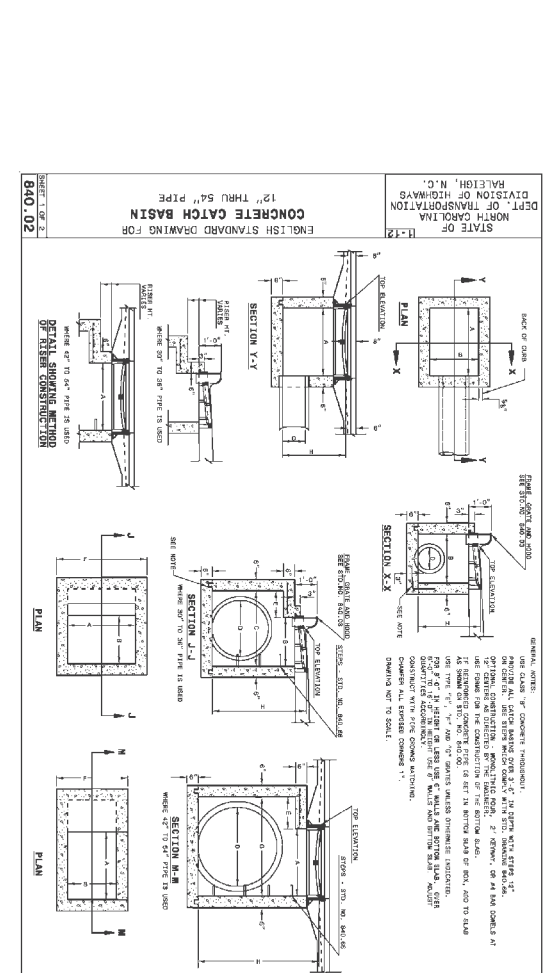
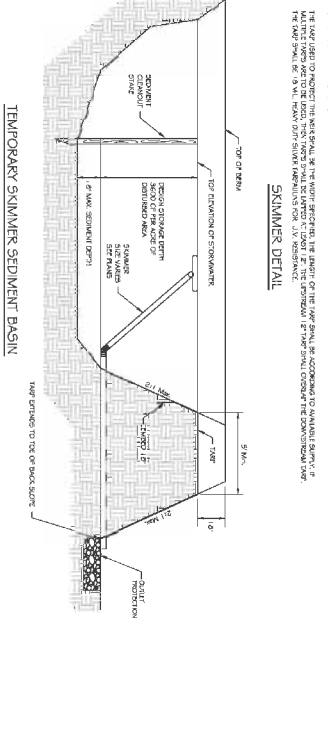
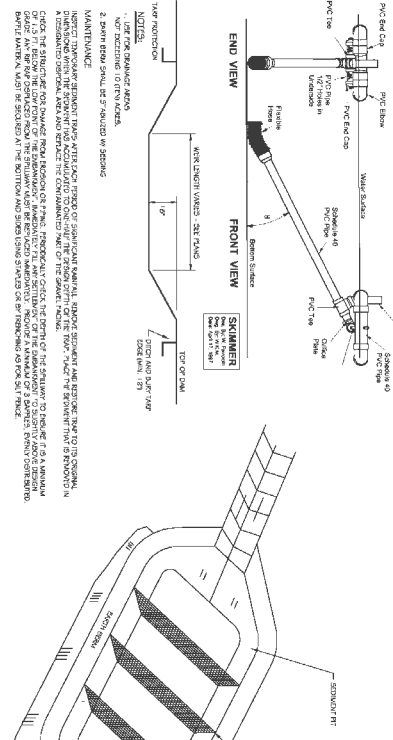
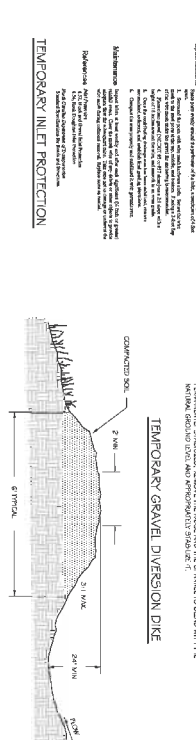
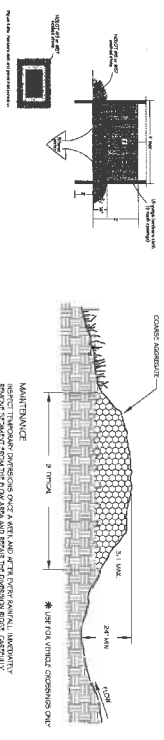
NO.	REVISIONS	DATE
1	REVISION PER CHATHAM CO. PUBLIC WORKS COMMENTS	08/25/13
2	REVISION PER CHATHAM CO. PUBLIC WORKS COMMENTS	09/20/13
3	REVISION PER CHATHAM CO. PUBLIC WORKS COMMENTS	09/20/13

CE GROUP
397 GLENWOOD AVE. 2ND FLOOR
RALEIGH, NC 27603
PHONE: 919-522-0022
WWW.CEGROUP.COM
License # C-1739



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
EROSION CONTROL DETAILS
WILLIAMS TOWNSHIP
CHATHAM COUNTY, NORTH CAROLINA

DATE: APRIL 12, 2013
SHEET: 12 OF 12
PROJECT: WESTFALL SUBDIVISION PHASE 2A CONSTRUCTION PLANS
DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: AS SHOWN



WESTFALL SUBDIVISION
PHASE 2A CONSTRUCTION PLANS
EROSION CONTROL DETAILS
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA

CE GROUP
 807 GLENWOOD AVE. 200
 RALEIGH, NC 27603
 FAX: 919-564-0222
 WWW.CEGROUP.COM
 License # C-1789

Sheet No. **13** of 13

DATE: APRIL 12, 2013

Scale: AS SHOWN

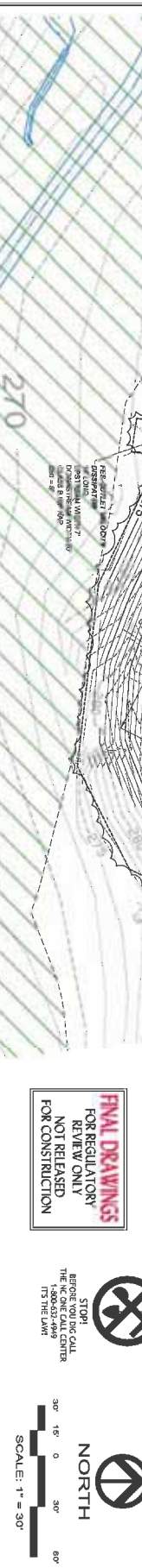
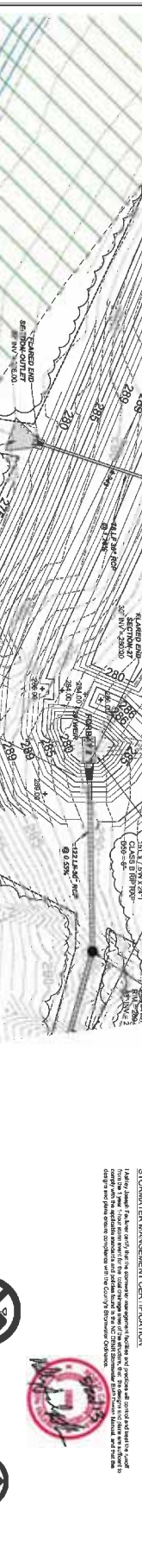
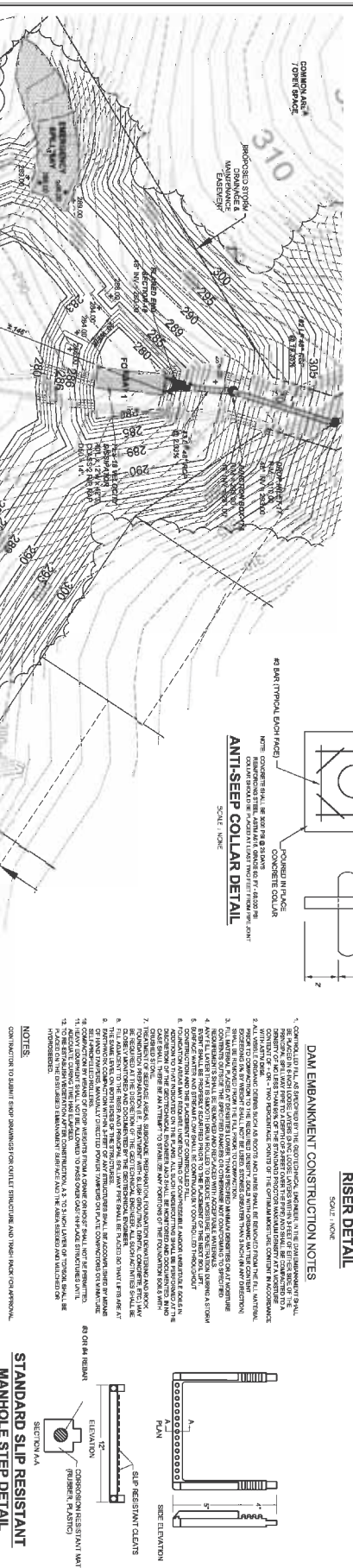
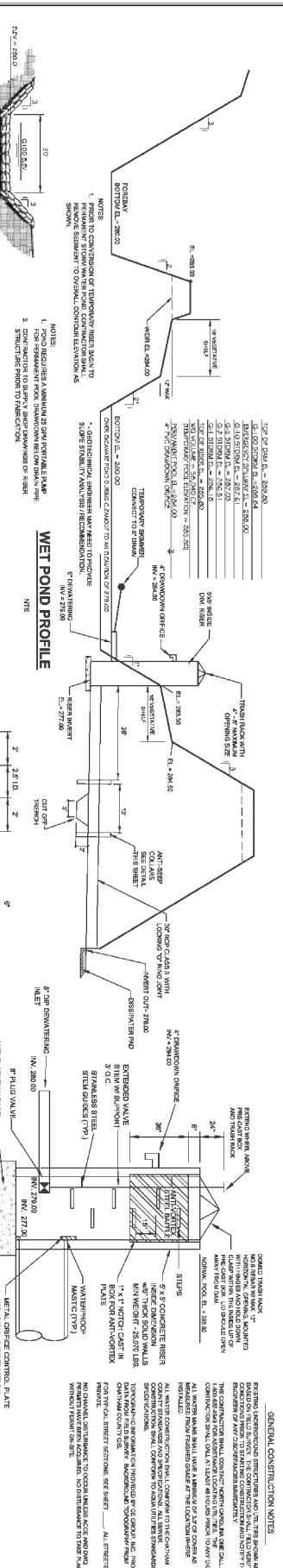
Drawn: ACS

Checked: AJF

Project: 80012

Company: CE Group

Rev. 1: 12/14/11 - 1" = 10' (2" = 10')



NO.	REVISIONS	DATE
1	REVISOR'S COMMENTS	05/20/13
2	REVISOR'S COMMENTS	05/20/13

WESTFALL SUBDIVISION

PHASE 2A CONSTRUCTION PLANS

STORMWATER POND PLAN & DETAILS

WILLIAMS TOWNSHIP

CHATHAM COUNTY, NORTH CAROLINA

301 GLENWOOD AVE 2ND
FAYETTEVILLE, NC 27033
PHONE: 704-322-0222
WWW.CEGROUPINC.COM

License # C-1739

DATE: APRIL 30, 2013

SCALE: 1" = 30'

CHATHAM COUNTY

PROJECT: ALP

PROJECT NO.: 12

PROJECT NAME: WESTFALL SUBDIVISION PHASE 2A

PROJECT LOCATION: 11300 WESTFALL DRIVE, WILMINGTON, NC

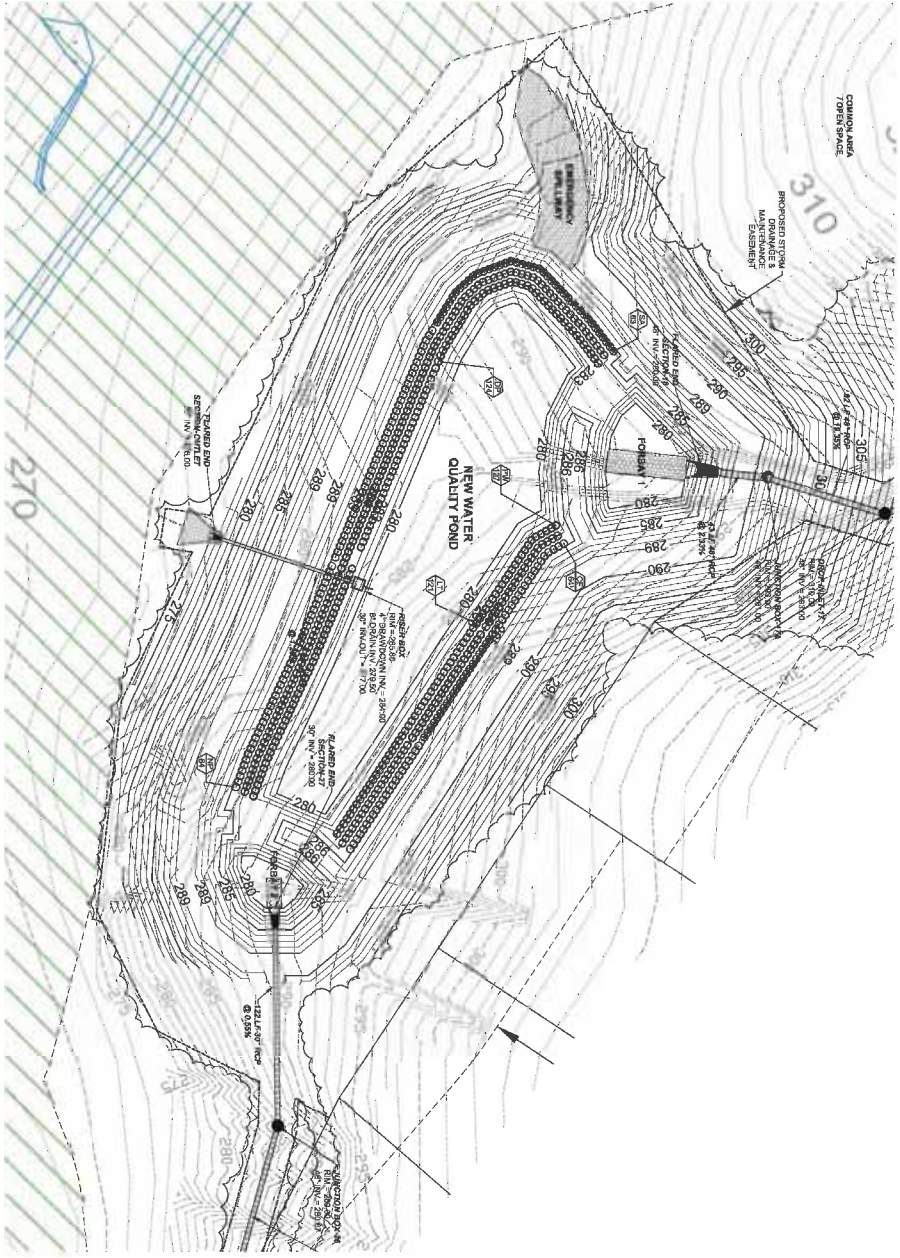
SHEET NO.: 14 OF 14

PLANT LIST

SYM.	QUANTITY	BOTANICAL NAME	COMMON NAME	HT.	ROOT	REMARKS
SA	23	HIBISCUS COCCINEUS NANA	WETLAND PLANTINGS	-	4' COK	3" O.C. BRUSH AND
CB	64	CHITRA CANTALUS	WHITE ROSE BLOSSOM	-	4' COK	3" O.C. BRUSH AND
CB	64	CHITRA CANTALUS	CHERRY BLOSSOM	-	4' COK	3" O.C. BRUSH AND
DP	124	SCOTCH BROOM	SCOTCH BROOM	-	4' COK	3" O.C. BRUSH AND
DP	124	SCOTCH BROOM	SCOTCH BROOM	-	4' COK	3" O.C. BRUSH AND
FM	127	PORTULACA OLEREA	PORTULACA OLEREA	-	4' COK	3" O.C. BRUSH AND
UZ		PORTULACA OLEREA	PORTULACA OLEREA	-	4' COK	3" O.C. BRUSH AND

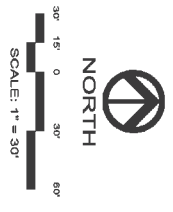
PLANTING NOTES:
 PLANTING CONTRACTOR SHALL PROVIDE PLANT MATERIAL, TRANSPORT, STORAGE, AND DELIVERY TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. APPROVAL FROM THE CHATHAM COUNTY PLANNING DEPARTMENT IS REQUIRED FOR ALL PLANTING MATERIAL AND LOCATION FOR WETLAND RESTORATION PROJECTS. SILENT CITY, NC A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR ALL PLANT MATERIAL AND DELIVERY. PLANTING CONTRACTOR SHALL PROVIDE PLANTING MATERIAL AND DELIVERY TO THE CONSTRUCTION SITE. PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

GENERAL CONSTRUCTION NOTES:
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CHATHAM COUNTY ZONING ORDINANCES AND THE CHATHAM COUNTY SUBDIVISION ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CHATHAM COUNTY PLANNING DEPARTMENT. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CHATHAM COUNTY ZONING ORDINANCES AND THE CHATHAM COUNTY SUBDIVISION ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CHATHAM COUNTY PLANNING DEPARTMENT. ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.



STOP
 NO PARKING OR STOPPING
 IN THIS ZONE
 1-800-527-6649
 (IN THE LAW)

FINAL DRAWINGS
 FOR REGULATORY
 REVIEW ONLY
 NOT FOR CONSTRUCTION



WESTFALL SUBDIVISION
 PHASE 2A CONSTRUCTION PLANS
 STORMWATER POND PLANTING PLAN
 WILLIAMS TOWNSHIP
 CHATHAM COUNTY, NORTH CAROLINA



CE GROUP
 301 GLENWOOD AVE 2ND
 FLOOR SUITE 200
 FAYETTEVILLE, NC 28404
 PHONE: 919-322-0222
 WWW.CEGRUP.COM



NO.	REVISIONS	DATE
2	REVISED PER CHATHAM CO. PUBLIC WATER COMMENTS	05/20/13
1	WATER REV. PER CHATHAM CO. PUBLIC WORKS REVIEW	03/06/13

Sheet No:
15
 OF

DATE: APRIL 12, 2013
 SCALE: 1" = 30'
 DRAWN: ACS
 CHECKED: ALP
 PROJECT NO.: 12
 COMPANY: CE GROUP