



Forsyth County Procurement

Donna H. Kukarola, CPPO, CPPB, Director

November 16, 2020

ADDENDUM #4

RFP 20-145-3340

For: Advanced Metering Infrastructure (AMI) meters, and system installation for the Forsyth County Water & Sewer Department.

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

CLOSING DATE EXTENDED TO MONDAY, NOVEMBER 23, 2020. ALL OTHER CLOSING INFORMATION REMAINS THE SAME.

Response to questions received *(response in italics)*

1. Will the city provide assistance with the difficult to locate meters?

Answer: The County will provide the selected Proposer assistance to find difficult to locate meters.

2. Are there meters in backyards or behind closed gates? Please provide a percentage of proposed services.

Answer: See response to question #21 in Addendum 2.

3. Are there any meters in alleys? Please provide a percentage of proposed services.

Answer: There are no meters in alleys.

4. Are there meters in areas considered Hazardous Areas? If yes, what are the locations and quantities of services that are considered hazardous? Please describe potentially hazardous conditions.

Answer: The County cannot identify all possible hazards that may be encountered by the Installers, such as confined spaces.



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5. Are there meters in confined spaces? If yes, what are the locations and quantities of services that are considered confined spaces?

Answer: Yes, see response to question #13 in Addendum 2. In general, confined spaces are underground vaults for fire lines and meters 3" and larger. Meter locations (including size and rate) were provided in response to question #5 in Addendum 1.

6. Will any portion of the project require traffic control? Please describe potential traffic control conditions.

Answer: The convenience of the general public and residents adjacent to the project and the protection of persons and property are of prime importance and shall be provided for in an adequate and satisfactory manner. There may be situations where traffic control will be required when retrofitting or replacing meters or meter boxes in roadways and driveways or pumping water from a large vault. Comply with all rules and regulations of the State and County authorities regarding closing or restricting the use of public streets or highways. Conduct the Work so as to assure the least possible obstruction to traffic and normal commercial pursuits. Protect all obstructions within traveled roadways by installing approved signs, barricades, and lights where necessary for the safety of the public. When flagmen and guards are required by regulation or when deemed necessary for safety, they shall be furnished with approved orange wearing apparel and other regulation traffic-control devices. Any lane closures, restrictions are to be submitted for review at least 48 hours prior to work being performed.

7. Is there a requirement to integrate installation data with a billing software? What Billing software will the exchange file be exported to?

Answer: Yes, refer to and comply with Technical Requirements, Section 13. As per Purpose of the Request for Proposals, Section 2, Background, the County uses Cogsdale (CSM 2019 R2.1).

8. If a **customer side** line breaks during installation due to deteriorating line or infrastructure (old galvanized pipe), who is responsible for repairs?

Answer: Refer to and comply with Technical Requirements, Section 18.36.

9. If a **service side** line breaks during installation due to a deteriorating line or infrastructure, who is responsible for service line repairs?

Answer: Refer to and comply with Technical Requirements, Section 18.36.



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10. Are existing meters on setter, risers or straight pipe?

Answer: Typical meter installations are shown in FCDWS Standard Details No. 6.0, 7.1, and 8.1 (see attachments). Also, see response to question #3 in Addendum 1.

11. Are typical service shut offs angle stops or straight curb stops?

Answer: Typical service shut offs are angle curb stops. Approximately 25% of the meters will have straight curb stops.

12. It is mentioned that an estimated 10,244 lids will be changed. Who is supplying the lids? And What type of lids are to be installed?

Answer: Refer to and comply with Technical Requirements, Section 5. The County will consider the Proposers' recommended options for its AMI solution.

13. How many different lid sizes are in the system?

Answer: Refer to Technical Requirements, Section 5. The County uses meter box lids manufactured by Sigma, model MB 3821T.

14. What type, size and quantity of meter pits are in the system?

Answer: The County has a mixture of cast iron boxes for meters 1" and smaller, however the lid specified in question #13 fits them all. The standard meter box for 1.5" and 2" meters is the Super Jumbo manufactured by Carson Industries, specification grade 1324, with plastic lids for use with radio read equipment. Meters 3" and larger are installed in concrete vaults with access hatches. Typical meter boxes and vaults are shown in FCDWS Standard Details No. 6.0, 7.1, and 8.1 (see attachments).

15. Are lid sizes known per service?

Answer: See response to question #13.

16. Is it anticipated that meter pits will have to be removed and reset (or replaced with new) to access the meter connections? Please provide percentage.

Answer: The County does not anticipate meter boxes or vaults will need to be removed or reset.

17. What will the process be if a service is too high and the new endpoint radio will not fit under the lid?

Answer: Approximately 56,000 of the County's meters have existing Neptune R900 AMR MIUs installed and based on the AMR implementation and the knowledge of our meter boxes the County believes this will not be an issue. The County will work with the selected Proposer to agree on a procedure to address this situation during project planning.



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18. It is expected that a small amount of dirt/debris will be removed per typical meter replacement, is it anticipated that meter boxes will have to be substantially cleaned (dirt higher than bottom of register)?

a. What percentage of the total meter population will require substantial cleaning?

Answer: Assume all meter boxes will require substantial cleaning.

19. What is the typical depth of the existing meter sets?

Answer: The typical depth of the existing meters sets is 12" to 18".

20. Provide percentages of piping materials are found on the **service side**, within the service system:

- a. Copper: %
- b. Galvanized: %
- c. Poly: %
- d. CTS: %
- e. PVC: %

Answer: See response to question #3 in Addendum 3. Copper is the most common service line material, followed by poly butylene. Service lines larger than 2" are ductile iron.

21. Provide percentages of piping materials are found on the **customer side**, within the service system:

- a. Copper: %
- b. Galvanized: %
- c. Poly: %
- d. CTS: %
- e. PVC: %

Answer: The County does not have that information. See response to question #4 in Addendum #3.

22. What is the project proposed start date?

Answer: The County anticipates issuance of the Notice to Proceed on April 1, 2021.

23. What is the duration of the project?

Answer: See response to question #2 in Addendum 3. The County is interested in receiving the most efficient and cost-effective AMI solution, which includes a proposed project schedule.



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24. Was there a system audit performed during the development of the RFP (e.g. meter type, meter size, meter manufacturer, quantity, box condition, lid condition, dirt/debris condition, etc)?

Answer: No.

25. What was the audit outline and will the results be shared?

Answer: Not applicable. See answer to question #24.

26. What entity performed the system audit?

Answer: Not applicable. See answer to question #24.

27. During installation services, will there be a third-party auditor performing QA/QC for the project owner? If yes, what entity will be performing the QA/QC services?

Answer: There will be QA/QC audits performed by the County's AMI Project Management Consultant and the specifics will be further discussed with the selected Proposer.

28. On the 3 inch and larger meters what type of connector is in place? Also, is that connector a male or female type connector?

Answer: Round flanged connections per AWWA C702, Table 4.

29. Regarding section D2-1 of the Pricing worksheet. Can you provide the product part number or the approved product supply of product in these items? (Check valves, and Shutoffs) Or provide a link to the County's standard specifications where this information can be found? *Answer: The County does not have an approved manufacturer and product number for these parts. Refer to and comply with minimum specifications provided in Technical Requirements, Section 22.*

30. Section D2-1 Pricing Worksheet- Will the County be providing any curb stops that need to be replaced? I do not see a line item for the supply of the actual product for this work.

Answer: As per Technical Requirements, Section 18.34, if the County authorizes the Proposer to replace the curb stop the County will provide the curb stop. Please note the County has requested curb stop labor in Pricing Table D2-1 as an additional service, but the County has not made a final decision on whether it will authorize the selected Proposer to replace curb stops. This decision will not be made until after a Proposer is selected.



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31. Is the use of Laborer classification in the Davis Bacon Wage sheets an acceptable wage for the meter installations? (Or do you require a Plumber classification?) *Answer: Laborer classification is acceptable.*
32. Is DBE/MBE participation a requirement of this contract? If so, what percentage? *Answer: Percentage not set, but it is the policy under the GEFA funding that the County provide fair share award. Refer to "Pertinent Drinking Water State Loan Requirements (GEFA)" on page 12 of the RFP, and Clarification #8 on Addendum #1.*
33. Section 18.19 of the RFP. Can you clarify the expectation of seal wires on meters that need to be replaced? If possible, please provide a picture of the final configuration of seal wires on the new meter. *Answer: The County requires seal wires for meters 1" and smaller between the curb stop and dual check swivel nuts. Seal wires shall be Twist-Tite Wire Seal (Part No. C4-0404-24A, Imprint: FORCOWD) or approved equal. See the photo below as an example. The County does not install seal wires on 1.5" and 2" meters. Meters 3" and larger are locked with chains; the County will provide a key.*



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11/4 Questions

34. Section 18.34 includes the statement “Installer should use a water meter base spreader tool to change ¾”-1” water meters not on a meter yoke, horn or setter.” Would you please confirm if it is the County’s intent that the installers are to use to meter spreader tool for ALL meter exchanges ¾” to 1” that are not on a setter?

Answer: See response to question #3 in Addendum 1. A meter spreader tool is recommended but not required.

35. Can the County provide any guidance to proposers as to the correct Davis Bacon wage determination and job classification that should be used?

Answer: See answer to question #31.



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36. Is the county considering allowing a plastic/polymer meter as a solution?

Answer: Yes.

37. For all ultrasonic/static meters will brass flow tubes and connections be required?

Answer: No. If a fully composite meter is proposed, describe the approach to minimize the risk of cross threading in accordance with Technical Requirements, Section 3.5.

38. P 56, 18.19 last sentence: What percent of meters will require sealing wire and seals to be re-installed?

Answer: See answer to question #33.

39. Please provide copies of the performance and payment bond forms to be utilized by the awarded Proposer.

Answer: See attached forms.

40. Appendix B, Sample Agreement, F. Insurance. Please provide Exhibits A and B as referenced in the first paragraph of this section.

Answer: Exhibit A will be the Request for Proposal document and all Addendums. Exhibit B will be the selected proposal.

41. Appendix D, Pricing Tables, D1-1B: Of the (224) 3" – 10" meters listed, how many and which ones will require two encoders (registers) and how many and which ones will require one encoder (register)?

Answer: All of these meters are compound and will require two registers.

42. Please provide exactly what Neptune registers are currently on all large meters (3" and larger)

Answer: Neptune R900i V-4 and V-5.

43. Please confirm current Neptune register and radio for meters 2" and below. Are these all Neptune R900i integrated units not capable of being retrofitted with another manufacturers (MIU)?

Answer: The County's 2" and below meters currently have Neptune R900i V-4 and V-5 integrated register/MIUs. The County would prefer to replace all the 2" and below meters but if some were to be retrofit, a replacement Neptune E-CODER or ProCode Register would need to be provided by the Proposer in order to retrofit the meters.



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44. It appears the lid specified in the RFP is made in India. With the American Iron and Steel Special Conditions applied to this project, would this lid qualify for use on this project?
Answer: The lid will qualify for this project as an incidental component compliant with AIS under the De Minimis Waiver.
45. Will the county provide a place to dump vac truck spoils (water/mud) from excavated meter pits?
Answer: No.
46. Section 18.36 calls for "... schedule of compensation for service line repairs by foot of service line and size." It is acceptable to modify bid form to include these cost and any other cost not already listed in our proposal?
Answer: See attached Appendix D, Pricing Table D2-6.
47. this project will involve GEFA funding components, will the county please specify what the Davis-Bacon wage rate determination should be for a water meter installer? Using a pipefitter/plumber rate will significantly drive the install labor costs above market value
Answer: See answer to question #31.
48. The RFP page 33 / 8.1 and Addendum #2 state an additional 6 units are required for System maintenance by the County employees. The Addendum 2 Appendix D Pricing.xlsx D1-2 Handhelds list a qty of 2. Please confirm the qty to be provided.
Answer: Provide 6 handheld interrogator devices. See attached Appendix D, Pricing Tables with updated quantity.
49. The RFP requires meter size ¾ meters to be provided. Please specify the lay length i.e. 7.5 inch or 9 inch?
Answer: All ¾" meters have a 7.5-inch lay length.
50. 4.6 Multiple Meters/Registers Describe any special provisions of the MIU to handle dual-register meters, or multiple meters in close proximity. Indicate if there are multi-port versions of the MIU, and the number of ports for meter registers or other devices for each model of MIU being proposed. The County would prefer dual-port MIUs for compound meters, meters sharing vaults, and the use of acoustic leak detectors at meter locations. Indicate Describe any restrictions on installing MIUs in close proximity. Include pricing for dual-port MIUs, if available, in the pricing proposal.
The Addendum 2 Appendix D Pricing.xlsx does not include a line item to provide this pricing. Is Forsyth County going to modify the pricing.xlsx to include this dual port device or should the Proposer simply provide attached pricing on a separate sheet?



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Answer: See attached Appendix D, Pricing Tables with additional line items for dual register models, if available.

51. Page 4. 2 Background. The Forsyth County Department of Water and Sewer (FCDWS) provides drinking water to the residents of Forsyth County (outside City limits). FCDWS currently reads the majority of the 66,000 meters with a Neptune AMR drive-by system and the rest of the fleet (approximately 10,000 meters) require manual monthly reads. Approximately 95% of the meters are made by Neptune. At least half of the meters have been installed within the past 10 years, but there is a significant portion (approximately 10,000) that are beyond their useful life, having been installed more than 25 to 30 years ago. And Page 23. 3 Water Meters. 3.1 General Requirements. The County has areas within its distribution system that exceed 150 psi which effects approximately 10,000 meters, as identified by size in the table below. The Proposer shall propose metering solutions, for the affected customers, guaranteed to operate with a working pressure between 150 psi and 220 psi.

A. Can you define the “areas” within the distribution system that contain the 10,000 that exceed 150 psi. For Example are they in various routes, i.e. 500 in route x, then another 1,000 in route y, and so on or are they located all in one geographical locations in the county, i.e. southwest corner? The goal of the question is to better understand how contiguous these “areas” or to each other

Answer: Meters with pressures exceeding 150 psi are in several areas of the County. See attached pressure contour map with routes. See attached table with a list of meter routes and estimated number of meters exceeding 150 psi.

B. Are the 10,000 manual read meters in a specify route(s) i.e. contiguous to each other scattered in various routes? Please provide further explanation

Answer: The County has been changing out manual read meters with AMR meters until recently. At this time, there are approximately 4,400 manual read meters remaining in the system. The locations are scattered throughout the County.

52. Are the shut off valves and dual check vales in line with the meter and are they glued or threaded connection?

Answer: Curb stops and dual check valves are in line with the meters. Most meter connections are threaded, but there are some glued connections on dual check valves.

53. Are these valves and dual check valves located in the meter box with the water meter?

Answer: Curb stops and dual check valves are inside the meter box.

END OF ADDENDUM NO 4

PAYMENT BOND

BID NUMBER: 20-145-3340
Advanced Metering Infrastructure, Forsyth County Water & Sewer

KNOW ALL MEN BY THESE PRESENTS, That

(Name of Contractor)

(Address of Contractor)

a _____
(Corporation, Partnership or Individual)

hereinafter called Principal, and

(Name of Surety)

(Address of Surety)

a Corporation of the State of _____, and a surety authorized by law to do business in the State of Georgia, hereinafter called Surety, are held and firmly bound unto

Forsyth County Board of Commissioners

110 E Main Street, Cumming, Georgia 30040

hereinafter called Oblige, for the use and protection of all subcontractors and all persons supplying labor, services, skill, tools, machinery, materials and/or equipment in the prosecution of the work provided for in the contract hereinafter referred to in the full and just sum of \$_____ in lawful money of the United States, for the payment of which sum, well and truly to be made, the Principal and Surety bind themselves, their, and each of their heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

The condition of this obligation is such, as whereas the Principal entered into a certain contract, hereto attached, with the Oblige, dated _____, 202_ for Forsyth County.

NOW, THEREFORE THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall well, truly, and faithfully perform said contract according to its terms, covenants and conditions, and shall promptly pay all persons furnishing labor, materials services, skill, tools, machinery and/or equipment for use in the performance of said Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

All persons who have furnished labor, materials, services, skill, tools, machinery and/or equipment for use in the performance of said Contract shall have a direct right of action on this Bond provided payment has not been made in full within ninety (90) days after the last day on which labor was performed, materials, services, skill, tools, machinery, and equipment furnished or the subcontract completed.

PROVIDED FURTHER, that said Surety to this Bond, for value received, hereby stipulates and agrees that no change, extension of time, alterations, or additions to the terms of the Contract or to the Work to be performed thereunder shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alterations, or additions to the terms of the Contract or to the work to be performed thereunder.

PROVIDED, HOWEVER, that no suit or action shall be commenced hereunder by any person furnishing labor, materials, services, skill, tools, machinery, and/or equipment having a direct contractual relationship with a subcontractor, but no contractual relationship express or implied with the Principal:

Unless such person shall have given notice to the Principal within ninety (90) days after such person did, or performed the last of the work or labor, or furnished the last of the materials, services, skill, tools, machinery and/or equipment for which claim is made stating with substantial accuracy the amount claimed and the name of the party to whom the materials, services, skill, tools, machinery and/or equipment were furnished, or for whom the work or labor was done or performed. Such a notice shall be served by mailing the same by registered mail, postage prepaid, in an envelope addressed to the Principal, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State in which legal process may be served in the State in which the aforesaid project is located, save that such service need not be made by a public officer, and a copy of such notice shall be delivered to the Obligee, to the person and at the address provided for in the Contract, within five (5) days of the mailing of the notice to the Principal.

PROVIDED, FURTHER, that any suit under this bond must be instituted before the expiration of one (1) year after the acceptance of the public works covered by the Contract by the proper authorities.

PROVIDED, FURTHER, that Principal and Surety agree and represent that this bond is executed pursuant to and in accordance with the applicable provisions of the Official Code of Georgia Annotated, as Amended, including, but not limited to, O.C.G.A. 13-10-1, et seq. and 36-86-101, et seq., and is intended to be and shall be construed as a bond in compliance with the requirements thereof.

PAYMENT BOND

Signed, sealed, and dated this _____ day of _____ A.D., 202_.

ATTEST:

(Principal Secretary)

(Principal)

(SEAL)

By: _____

(Witness as to Principal)

(Address)

(Address)

(Surety)

ATTEST:

By: _____
(Attorney-in-Fact and Resident Agent)

(Attorney-in-Fact)

(SEAL)

(Witness as to Surety)

(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

PERFORMANCE BOND

PROJECT NAME: Forsyth County Georgia, Advanced Metering Infrastructure Project
BID NUMBER: 20-145-3340

KNOW ALL MEN BY THESE PRESENTS, That

(Name of Contractor)

(Address of Contractor)

a _____
(Corporation, Partnership or Individual)

hereinafter called Principal, and

(Name of Surety)

(Address of Surety)

a Corporation of the State of _____, and a surety authorized by law to do business in the State of Georgia, hereinafter called Surety, are held and firmly bound unto

Forsyth County Board of Commissioners

110 E. Main Street, Cumming, Georgia 30040

hereinafter referred to as Obligee, are held and firmly bound unto said Obligee and all persons doing work or furnishing skill, tools, machinery, supplies, or material under or for the purpose of the Contract hereinafter referred to, in the penal sum of _____ in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

This condition of this obligation is such, as whereas the Principal entered into a certain contract, hereto attached with the Obligee, dated _____, 202_.

PERFORMANCE BOND

NOW, THEREFORE THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall well, truly, fully and faithfully perform said contract according to its terms, covenants, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Obligee, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreement of any and all duly authorized modifications of said contract that may hereafter be made, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED FURTHER, that said Surety to this Bond, for value received, hereby stipulates and agrees that no change, extension of time, alterations or additions to the terms of the Contract or to the Work to be performed thereunder shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alterations, or additions to the terms of the Contract or to the work to be performed thereunder.

PROVIDED, FURTHER, that Principal and Surety agree and represent that this bond is executed pursuant to and in accordance with the applicable provisions of the Official Code of Georgia Annotated, as Amended, including, but not limited to, O.C.G.A. 13-10-1, et seq. and 36-86-101, et.seq., and is intended to be and shall be construed as a bond in compliance with the requirements thereof.

(Signatures Next Page)

(This space intentionally left blank)

BID NUMBER: 20-145-3340

Page 3

PERFORMANCE BOND

Signed, sealed, and dated this _____ day of _____ A.D., 202_.

ATTEST:

(Principal Secretary)

(Principal)

(SEAL)

By: _____

(Witness as to Principal)

(Address)

(Address)

(Surety)

ATTEST:

By: _____
(Attorney-in-Fact and Resident Agent)

(Attorney-in-Fact)

(SEAL)

(Witness as to Surety)

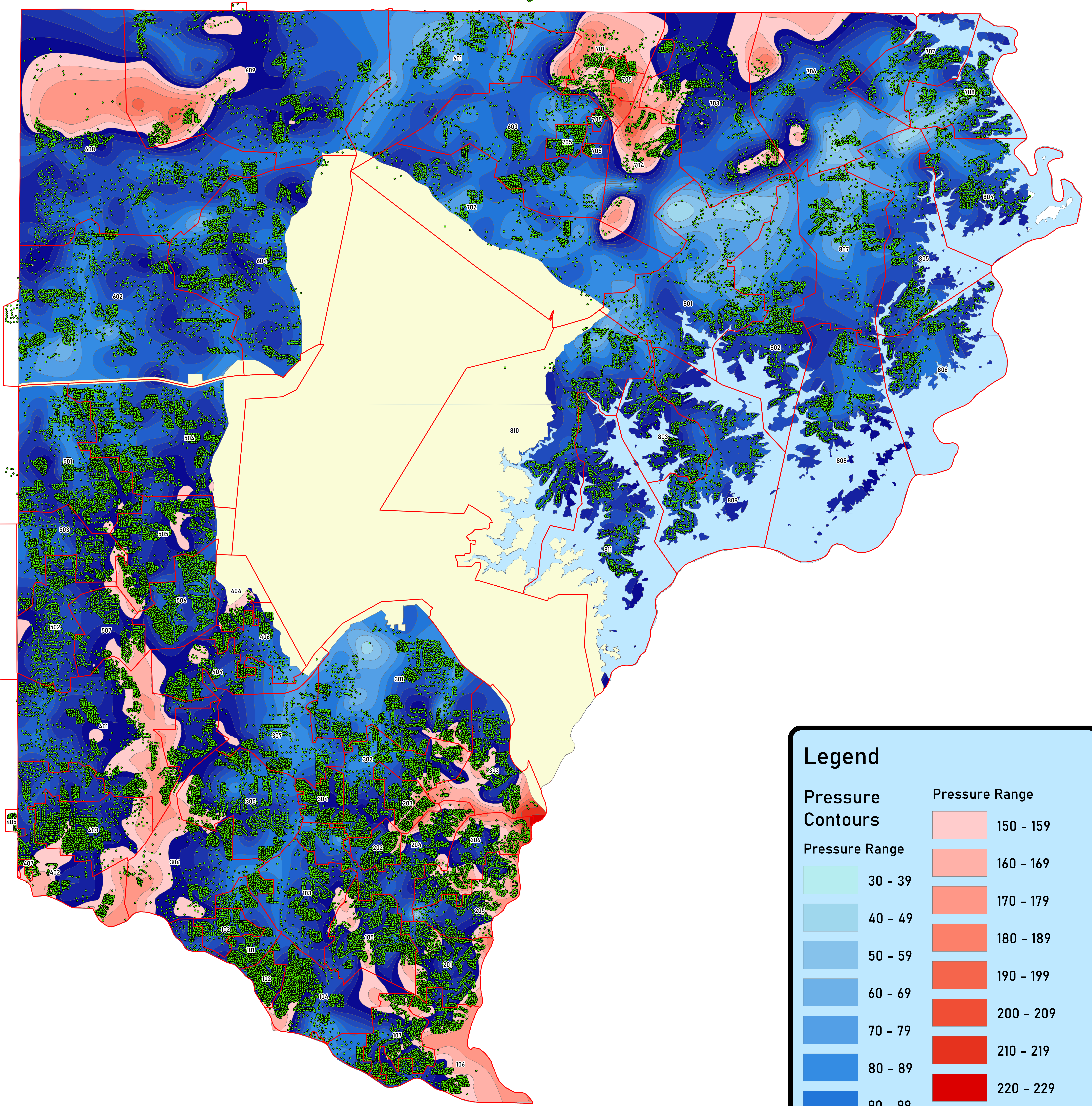
(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

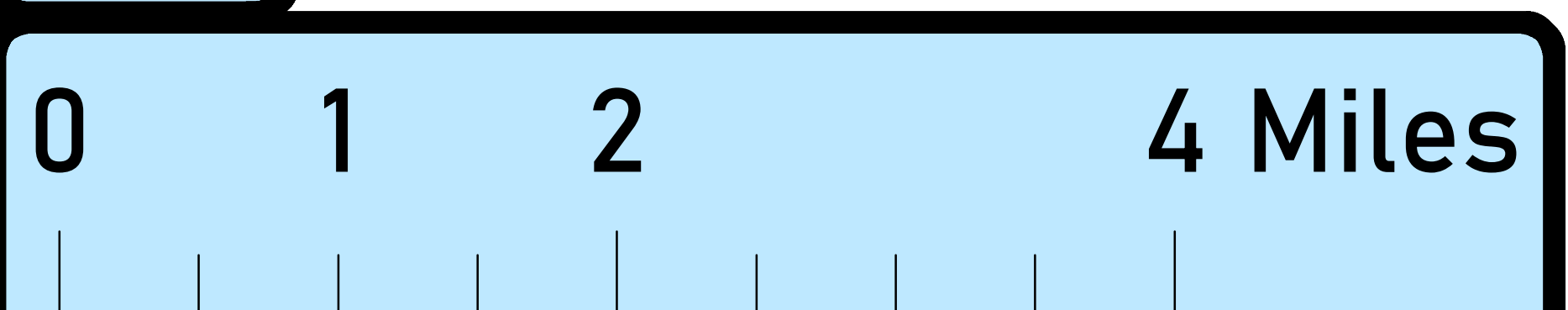
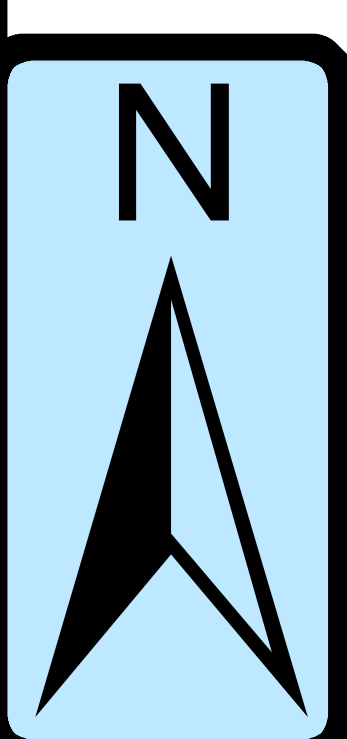
IMPORTANT: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

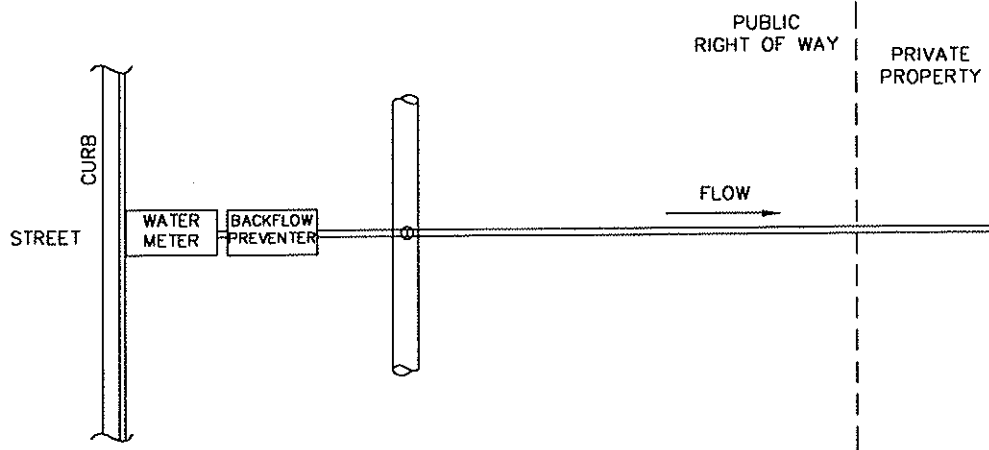
Forsyth County Water Pressure Zones and Customer Connections



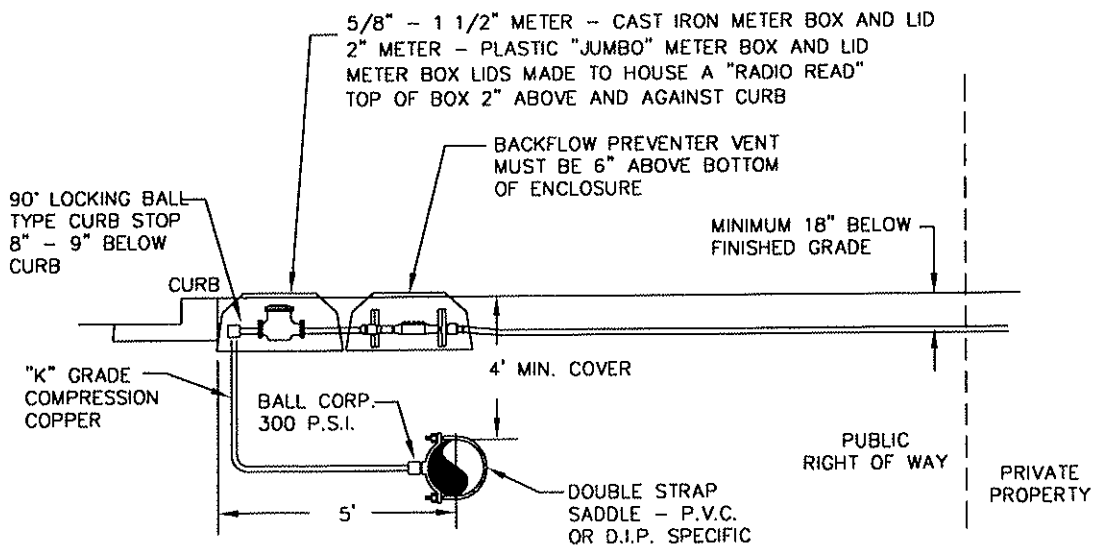
Legend

Pressure Contours	Pressure Range
	30 - 39
	40 - 49
	50 - 59
	60 - 69
	70 - 79
	80 - 89
	90 - 99
	100 - 109
	110 - 119
	120 - 129
	130 - 139
	140 - 149
	150 - 159
	160 - 169
	170 - 179
	180 - 189
	190 - 199
	200 - 209
	210 - 219
	220 - 229
	Water Service Connections
	City of Cumming Service Area
	Lake Lanier
	Meter Routes





PLAN VIEW



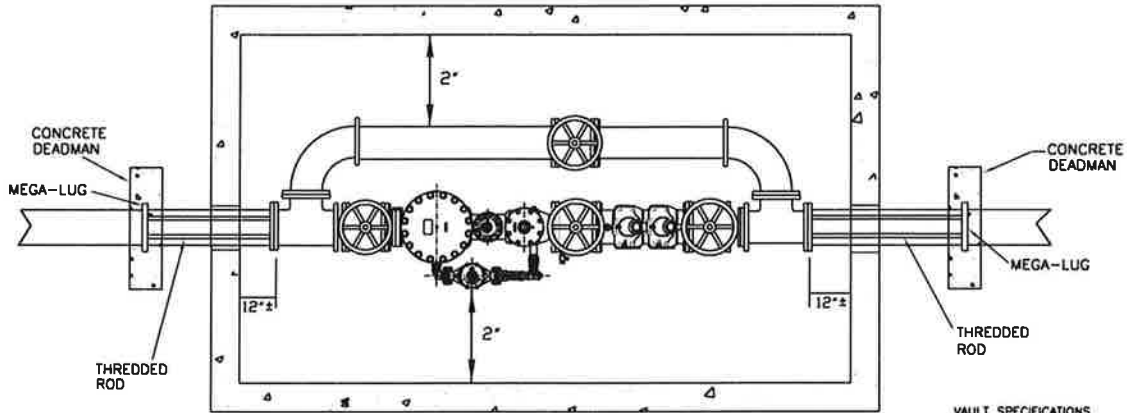
SIDE VIEW

FORSYTH COUNTY DEPARTMENT OF WATER AND SEWER

DATE:	SEPT. 12, 2005	DETAIL TITLE:	DETAIL No.
SCALE:	N.T.S.	WATER METER BOX 2" AND SMALLER	6.0
DRAWN BY:			

VAULT HATCH REQUIREMENTS

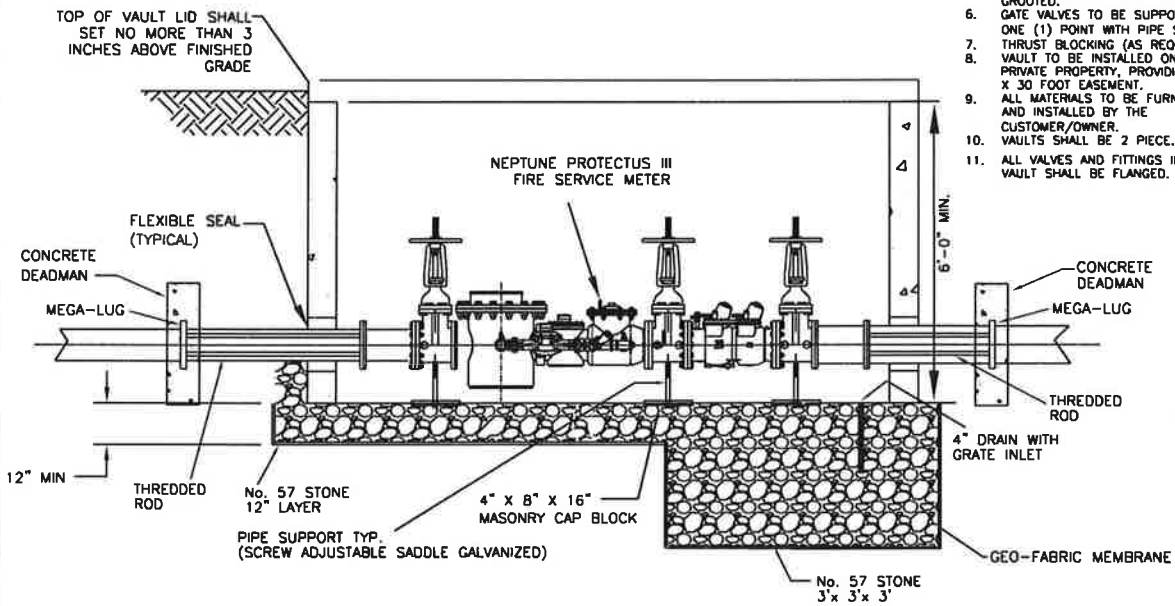
1. RATED TO WITHSTAND A MINIMUM H-10 LIVE LOAD.
2. A MANUAL LOCKING ARM TO PREVENT HATCH LIDS FROM CLOSING.
3. CAPABLE OF BEING SECURED USING A KEYED LOCK, OR BY A T-HANDLE LATCH.



PLAN VIEW

VAULT SPECIFICATIONS

1. VAULT SHALL BE PRECAST REINFORCED CONCRETE
2. VAULT TOP-TO BE REINFORCED CONCRETE WITH HATCH OPENING OFFSET TO ONE SIDE
3. ACCESS LADDER-DOWELED TO WALL AND CENTERED AT HATCH OPENING
4. HATCH COVER-(ALUMINUM)-BLCO MODEL NO. J-4AL OR EQUAL
5. PIPE PENETRATIONS (ANNULUS BETWEEN CONCRETE AND OUTSIDE OF PIPE) SHALL BE SEALED WITH EXPANDING FOAM OR BRICKED AND GROUTED.
6. GATE VALVES TO BE SUPPORTED AT ONE (1) POINT WITH PIPE STANDS.
7. THRUST BLOCKING (AS REQUIRED)
8. VAULT TO BE INSTALLED ON OWNERS PRIVATE PROPERTY, PROVIDING A 15 X 30 FOOT EASEMENT.
9. ALL MATERIALS TO BE FURNISHED AND INSTALLED BY THE CUSTOMER/OWNER.
10. VAULTS SHALL BE 2 PIECE.
11. ALL VALVES AND FITTINGS INSIDE VAULT SHALL BE FLANGED.



SECTION VIEW

FORSYTH COUNTY DEPARTMENT OF WATER AND SEWER

DATE:	May 18, 2011	DETAIL TITLE:	DETAIL No.
SCALE:	N.T.S.	FIRE METER AND VAULT	8.1
DRAWN BY:	AH		