

State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: May 29, 2025

TO: Adam J. Teitzman, Commission Clerk, Office of Commission Clerk

FROM: Segundo Sanchez, Engineering Specialist I, Division of Engineering *SS MR*

RE: Docket No. 20240126-WU - Application for grandfather certificate to operate water utility in Citrus County, by Cinnamon Ridge Utilities, Inc.

Please place the attached documents, provided by Cinnamon Ridge Utilities, Inc., in Docket No. 20240126-WU. These documents are in response to staff's September 13, 2024, deficiency letter.

SS:da

Attachment

CINNAMON RIDGE UTILITIES, INC.

6909 BEACH BLVD.

HUDSON, FL 34667

727-863-2524

RE: DOCKET NO. 20240126-WU- APPLICATION FOR GRANDFATHER CERTIFICATE -
(WS-CINNAMON RIDGE UTILITIES, INC. Citrus County)

DEFICIENCIES #1: CLARIFY COMPANY NAME

Please accept this statement to correct the name on the Grandfather application
referenced above.

The Utility's name should be:

Cinnamon Ridge Utilities, Inc.

From: [Segundo Sanchez](#)
To: ["Cinnamon Ridge Utilities, Inc."](#)
Cc: [Phillip Ellis](#); [Shaw Stiller](#)
Subject: RE: DN 20240126-WU - Deficiency Corrections Extension
Date: Wednesday, May 28, 2025 1:07:23 PM

Good afternoon,

Thank you for the phone call last Friday (5/23/25) to discuss the Utility's outstanding deficiencies for its pending grandfather docket (Docket No. 20240126). Please provide corrections to the remaining deficiencies by **June 27, 2025**. If by this date, you anticipate requiring more additional time, please let us know. Staff will continue to work with you to process your grandfather certificate application and appreciate your cooperation.

The Florida Rural Water Association is a resource that you may find helpful (<https://www.frwa.net/>).

If you have any further questions, please feel free to contact me (SSanchez@psc.state.fl.us or 850-413-6226) at your convenience.

Thanks,

Segundo Sanchez
Engineering Specialist
Division of Engineering
(850) 413-6226

From: Segundo Sanchez
Sent: Thursday, May 15, 2025 1:19 PM
To: 'Cinnamon Ridge Utilities, Inc.' <cinnamonridgeutilities@gmail.com>
Cc: Phillip Ellis <PELLIS@PSC.STATE.FL.US>; Shaw Stiller <SStiller@psc.state.fl.us>
Subject: RE: DN 20240126-WU - Deficiency Corrections Extension

Good afternoon,

After review of the attached document, it does not seem to be sufficient to satisfy the remaining deficiencies detailed in the September 13, 2024 deficiency letter. Deficiency No. 1 was satisfied by the statement provided on November 12, 2024. The remaining deficiencies are as follows:

1. Documentation of the Utility's right to access and continued use of the land the Utility treatment facilities are located upon. This documentation should be provided in the form of a recorded warranty deed, a recorded quit claim deed accompanied by title insurance, a recorded lease such as a 99-year lease, or a recorded easement.
2. Legal description of the territory being served or was authorized to serve provided in either sections format or a metes and bounds format. Descriptions such as those on pages 2, 4, and 6 of the attached documents appear to be the correct format, but describe only a portion of the territory. A valid description of the entire service area still needs to be provided before any maps can be verified.

3. A system map that labels existing and proposed lines and treatment facilities. There are maps provided that may satisfy the requirements of the Rule, but nothing can be verified without a valid legal description.
4. A territory map that shows the township, range, and section with a scale such as 1"=200' or 1"=400' with the existing and proposed territory plotted. Maps have been provided that seem to show the entire territory, but without a valid legal description and a map of sufficient scale, nothing can be verified as accurate.

If you have any questions, please feel free to contact me (SSanchez@psc.state.fl.us or 850-413-6226) or Phillip Ellis (PELLis@psc.state.fl.us or 850-413-6626) at your convenience.

Thanks,

Segundo Sanchez
Engineering Specialist
Division of Engineering
(850) 413-6226

From: Cinnamon Ridge Utilities, Inc. <cinnamonridgeutilities@gmail.com>

Sent: Tuesday, April 29, 2025 12:16 PM

To: Phillip Ellis <PELLis@PSC.STATE.FL.US>

Cc: Segundo Sanchez <SSanchez@psc.state.fl.us>; Shaw Stiller <SStiller@psc.state.fl.us>

Subject: Re: DN 20240126-WU - Deficiency Corrections Extension

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon,

I have attached some plans that we were able to find that were not water damaged.

I had a Blueprint company scan them to my email.

I can send the large copies if you would like?

Please let me know what else you need, so that we can get our Grandfather Certificate.

Thank you all again for your help.

With regards.

Jennifer Smith
Cinnamon Ridge Utilities, Inc.
6909 Beach Blvd.
Hudson, FL 34667
727/863-2560

On Fri, Mar 7, 2025 at 9:32 AM Cinnamon Ridge Utilities, Inc.

<cinnamonridgeutilities@gmail.com> wrote:

Good Morning!

Thank you so much for all your help. I will forward everything to Mrs. Paula Paxton.

Jennifer Smith
Cinnamon Ridge Utilities, Inc.
6909 Beach Blvd.
Hudson, FL 34667
727/863-2560

On Thu, Mar 6, 2025 at 7:43 AM Phillip Ellis <PELLIS@psc.state.fl.us> wrote:

Good Morning,

Staff was able to do some digging in our archives to see if there was anything in the Commission's records associated with Cinnamon Ridge during its prior time under the Commission's jurisdiction and was able to find the attached documents. It would seem the original certificated area (See Cinn Ridge Cert and App.pdf, which has portions of the legal description and a map) does not resemble the Utility's current service territory (following much more closely to the shape of the subdivision). However, the amendment in Order 14624 (Order 14624.pdf, and related notice in Cinn Ridge Ext.pdf) may be more relevant and useful for you, and seems to cover the southwestern portion of the current service territory per the initial map provided in your application. While I know this doesn't resolve the deficiency, I hope it is helpful to you. Please feel free to contact us if you have any questions.

From: Segundo Sanchez <SSanchez@psc.state.fl.us>

Sent: Wednesday, March 5, 2025 3:14 PM

To: 'Cinnamon Ridge Utilities, Inc.' <cinnamonridgeutilities@gmail.com>

Cc: Phillip Ellis <PELLIS@PSC.STATE.FL.US>; Shaw Stiller <SStiller@psc.state.fl.us>

Subject: DN 20240126-WU - Deficiency Corrections Extension

Good afternoon,

As per our recent phone conversation, there should be no issue with the desired extension and your request for additional time is approved. We hope to have your corrections for the remaining deficiencies submitted by **Friday, May 2, 2025** instead. If by this date, you anticipate requiring additional time to file the necessary corrections, please let us know. As always, staff will continue to work with you to process your grandfather certificate application.

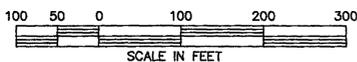
If you have any questions, please feel free to contact me (SSanchez@psc.state.fl.us or 850-413-6226) or Phillip Ellis (PELLIS@psc.state.fl.us or 850-413-6626) at your convenience.

Thanks,

Segundo Sanchez
Engineering Specialist
Division of Engineering
(850) 413-6226

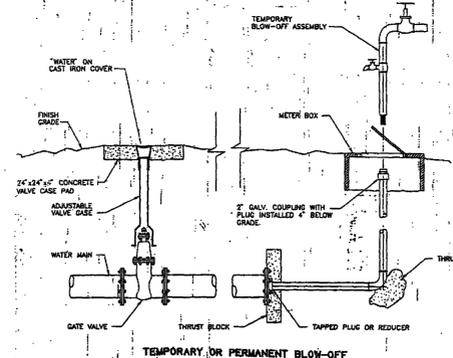
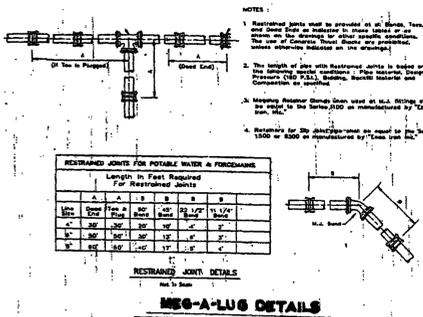
GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS AND QUALITY CONTROL OF THE PUBLIC WORKS MANUAL OF CITRUS COUNTY, FLORIDA.
2. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM.
3. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
4. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
5. ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE BASE AND SURFACE ARE CONSTRUCTED.
6. SPECIAL CARE IS TO BE TAKEN SO TREES REMAIN UNHARMED DURING CONSTRUCTION.
7. ALL MAINS LENGTHS ARE PLUS OR MINUS.
8. WATER MAINS TO BE 2.5' (MIN) BELOW PROPOSED GRADE.
9. WATER MAINS TO BE 17.0' FROM CENTERLINE OF PROPOSED ROADS. A 10' SEPARATION BETWEEN STORM SEWER AND WATER MAIN IS TYPICAL.
10. 10' OF D.I.P. FROM THE CL OF STORM SEWER INLETS AND PIPES IS TYPICAL.
11. CONFLICTS BETWEEN WATER AND STORM SYSTEMS ARE TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
12. ALL WATER MAINS ARE PVC CONFORMING TO AWWA C-900, DR18.
13. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOUR IN ACCORDANCE WITH THE STANDARDS OF THE PUBLIC WORKS MANUAL OF CITRUS COUNTY, FLORIDA. CONTRACTOR SHALL OBTAIN TWO DAYS OF SATISFACTORY BACTERIOLOGICAL TESTS FOLLOWING COMPLETION OF CONSTRUCTION FOR SUBMITTAL TO THE ENGINEER.
14. HORIZONTAL SEPARATION OF STORM SEWER/SAN/SEWER LINES AND WATER LINES TO BE A MINIMUM OF 10'.
15. VERTICAL SEPARATION OF STORM SEWER/SAN/SEWER LINES AND WATER LINES TO BE A MINIMUM OF 18".
16. TEMPORARY WATER LINE BLOWOFFS SHALL BE SPACED A MINIMUM OFF 1500' APART.

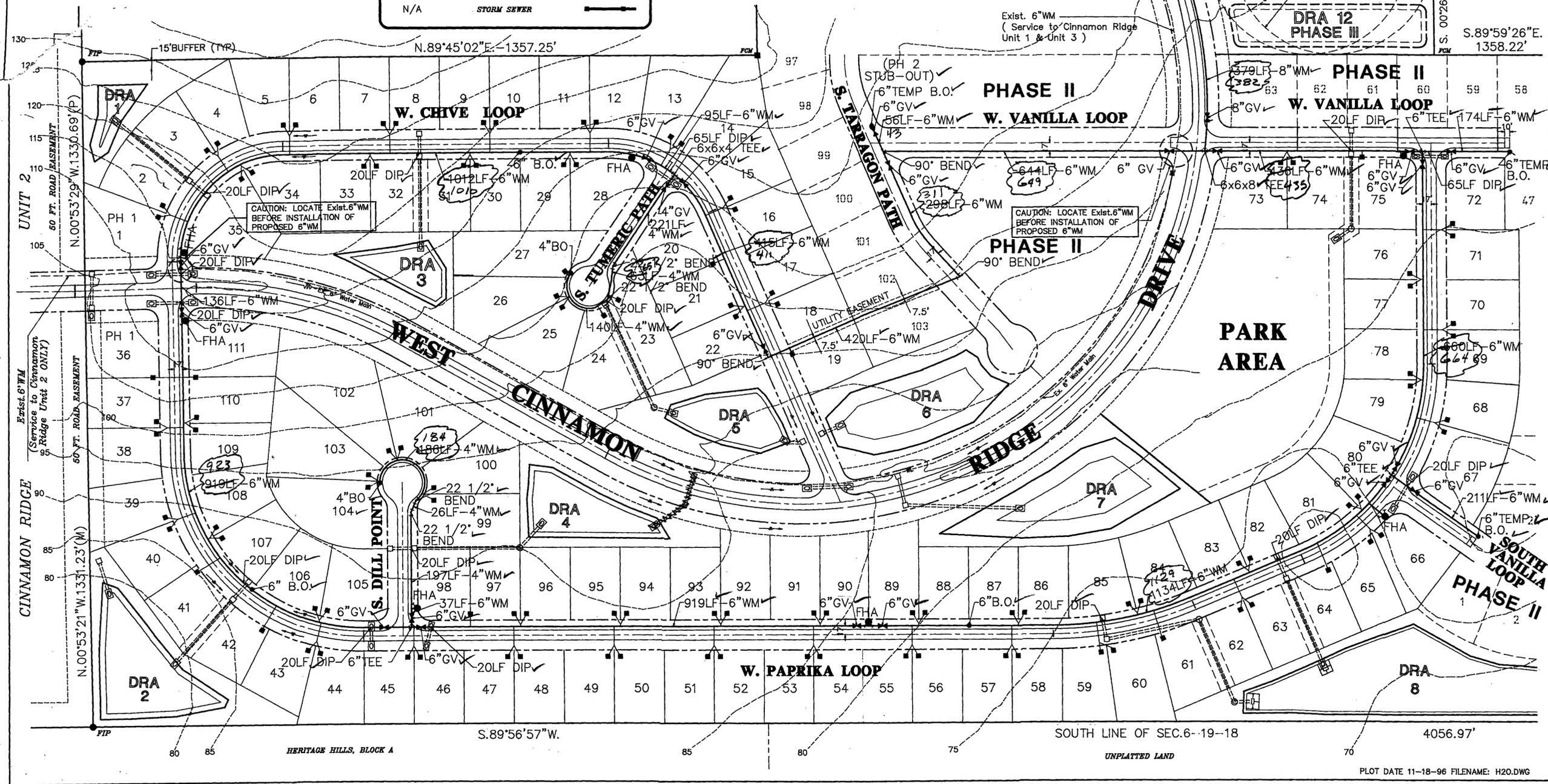


LEGEND

| Existing | CONTOUR | PROPOSED |
|----------|---------------------------|----------|
| N/A | 6" WATER MAIN | 6" BO |
| N/A | BLOW-OFF ASSEMBLY | FHA |
| N/A | FIRE HYDRANT ASSEMBLY | 6" GV |
| N/A | GATE VALVE W/BOX | 20LF DIP |
| N/A | DUCTILE IRON PIPE | |
| N/A | SINGLE SERVICE CONNECTION | |
| N/A | DOUBLE SERVICE CONNECTION | |
| N/A | STORM SEWER | |



PIPE:
 General: Uni-bell gasket joint PVC or mortar lined ductile iron pipe is required for sizes three inches and larger. Pipe smaller than two inches shall be glue joint PVC. Gray iron, galvanized or asbestos cement pipe is not approved. Pipe shall meet the following requirements:
 1. Gasket Joint PVC shall be uni-bell, AWWA C900 DR 18, colored light blue or white and labeled for use as potable water pipe.
 2. Solvent Weld PVC shall be Schedule 40, ASTM D-2241, ASTM D-2672, ASTM D-1784 and NSF #14.
 3. Gasket Joint Ductile Iron shall be cement lined as per ANSI/AWWA-C104/A21.4 and conform to ANSI/AWWA-C151/A21.50, ANSI/AWWA-C151/A21.51 and ANSI/AWWA-C111/A21.11.



ADP & ASSOCIATES, INC.
 Engineers • Planners • Surveyors
 962 E. JEFFERSON STREET
 BROOKSVILLE, FL 34601
 (352) 799-1500
 (352) 799-1225

**WATER SUPPLY SITE PLAN
 AND MISC. DETAILS
 CINNAMON RIDGE PHASE ONE**

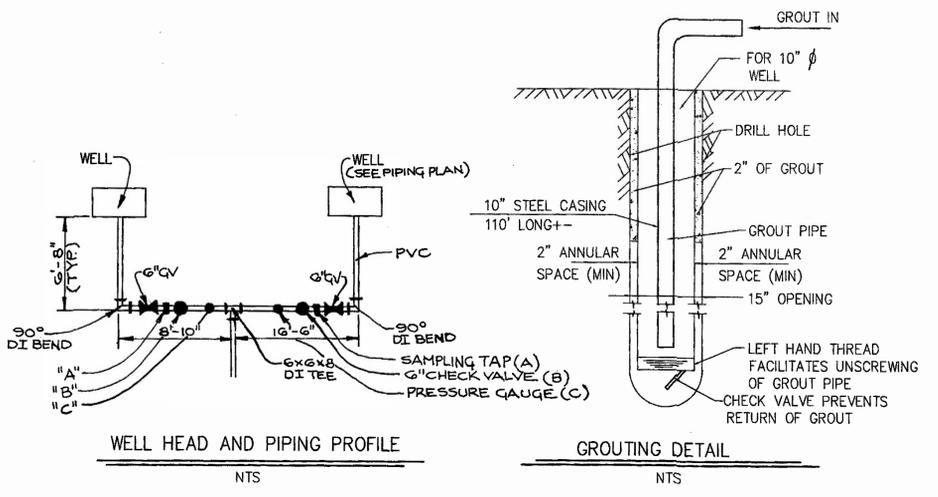
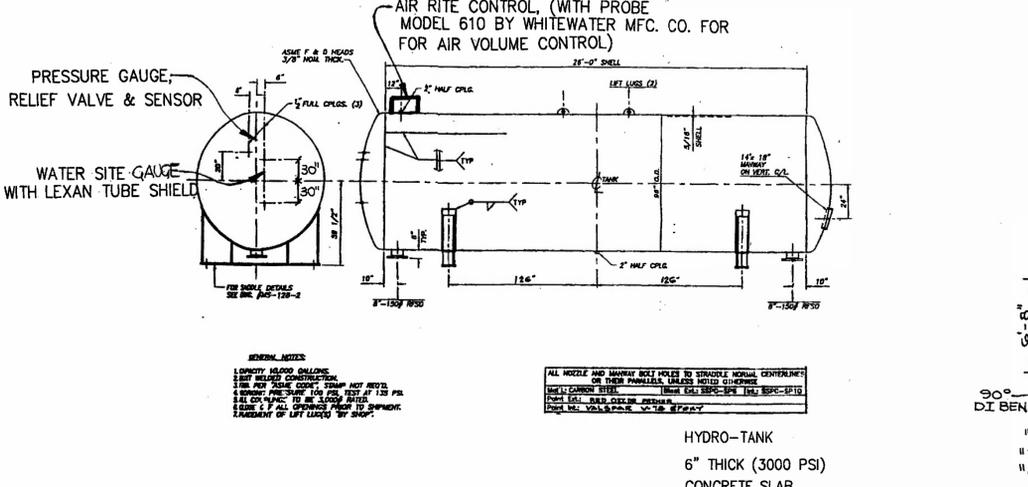
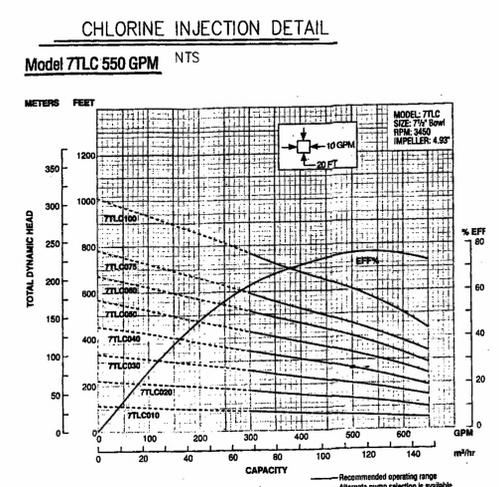
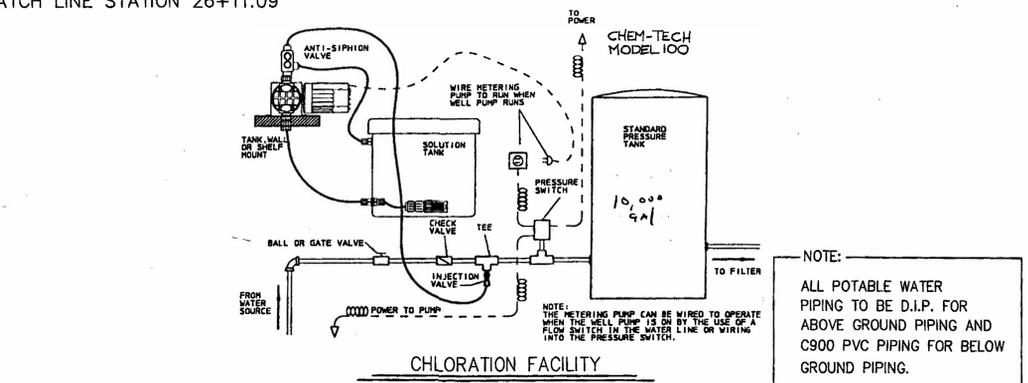
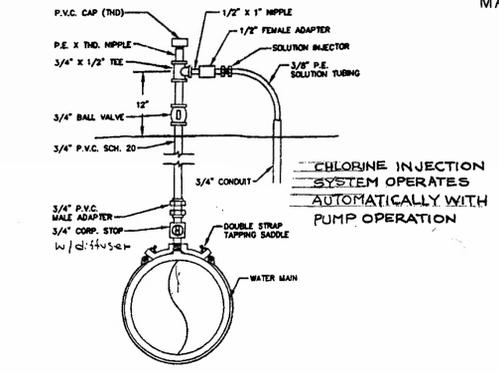
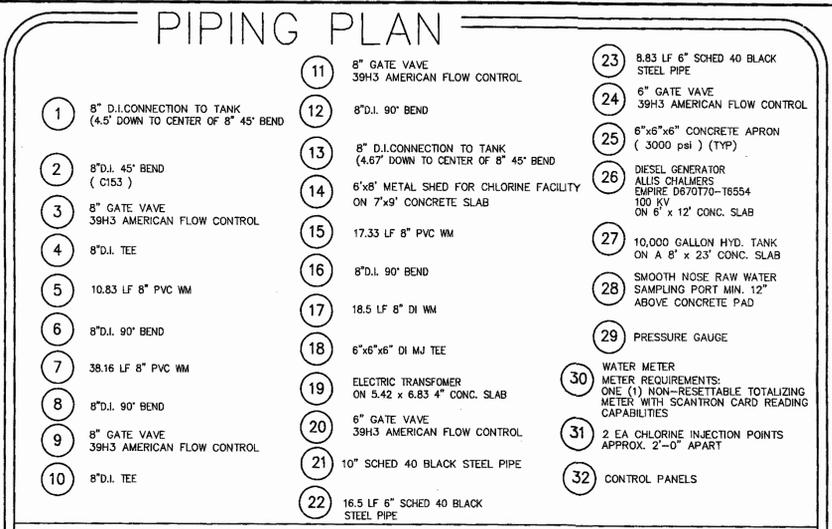
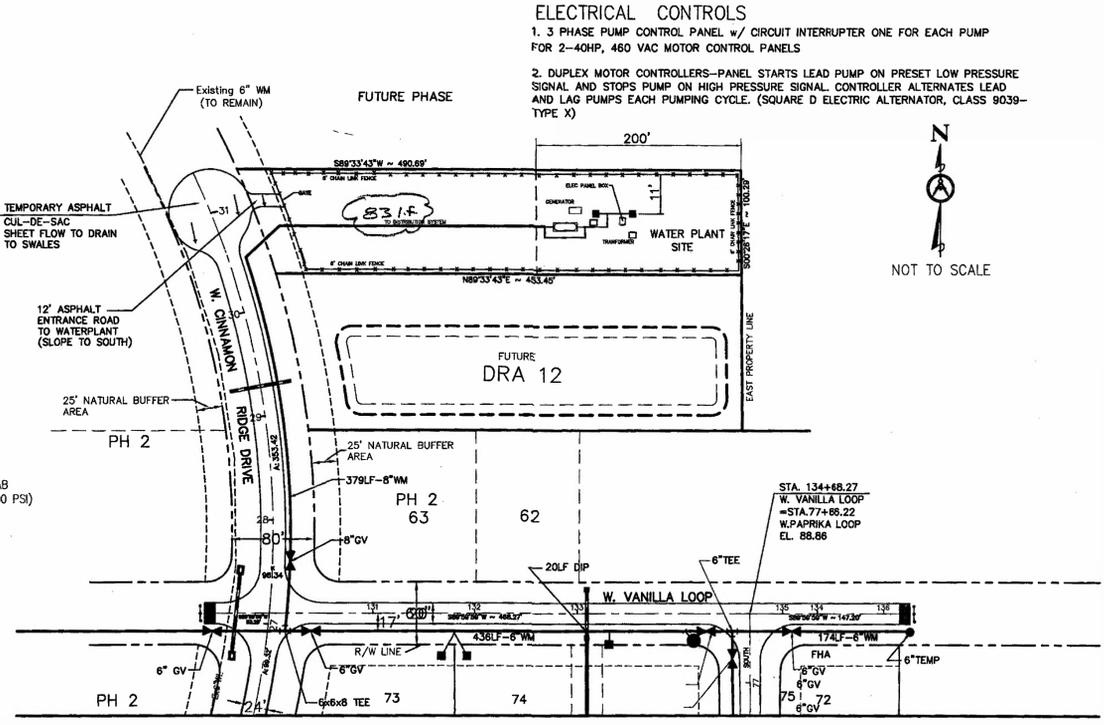
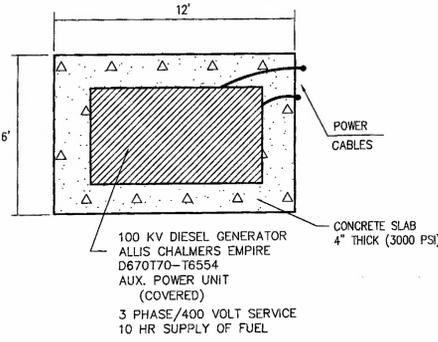
| MARK | REVISIONS | DATE |
|------|-----------|--------|
| | AS-BUILT | 4-9-96 |

App. by ADP
 Des. by JIROS GRAPHICS
 Drw. by JIROS
 Date 11-18-96
 Scale As Noted
**Project Number:
 95-003**

ENGINEER OF RECORD
 Anthony D. Pedonesi, P.E.
 Registration No. 34653

SHEET NO.
 17 OF 17

WATER PLANT LEGAL DESCRIPTION:
 Beginning at the southeast corner of Section 6, Township 19S, Range 18E, Citrus County, Florida, thence running north, N00° 11' 11" W, a distance of 1334.94', thence S88° 59' 26" E a distance of 1356.22', thence N00° 26' 17" W a distance of 153.47' to a Point of Beginning. Thence running N88° 33' 43" E, a distance of 453.45' to a curve having a radius of 840', a chord bearing of N20° 48' 31" W and an arc length of 107.05', thence running S89° 33' 43" W, a distance of 490.69', thence running S00° 26' 17" E a distance of 100.29', to the Point of Beginning, containing 1.084 acres MOL.



ADP & ASSOCIATES, INC.
 Engineers * Planners * Surveyors
 962 E. JEFFERSON STREET
 BROOKSVILLE, FL 34601
 (352) 789-1500
 (352) 789-1225

CINNAMON RIDGE POTABLE WATER TREATMENT FACILITY
SITE PLAN - PIPING PLAN

| 1 | ADDED PH2 PIPE TO DRA12 | 7-21-97 |
|------------------|-------------------------|---------|
| AS BUILT 4-21-99 | | |
| MARK | REVISIONS | DATE |

| | |
|---------|----------|
| App. by | ADP |
| Des. by | JROS |
| Drw. by | JROS |
| Date | 2-18-99 |
| Scale | As Noted |

Project Number:
95003

ENGINEER OF RECORD
 Anthony D. Pedonesi, P.E.
 Registration No. 34653

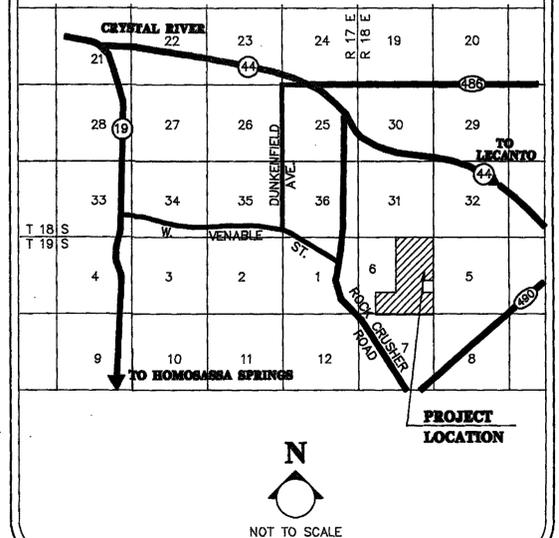
SHEET NO.

2 OF 2

CONSTRUCTION PLANS
FOR
CINNAMON RIDGE
POTABLE WATER
TREATMENT FACILITY

SEC. 6, TWP. 19S., RGE. 18E.
CITRUS COUNTY, FLORIDA

VICINITY
MAP



INDEX

| SHT. NO. | DESCRIPTION |
|----------|---------------------------|
| 1 | COVER SHEET |
| 2 | SITE PLAN |
| 3 | WELL HEAD AND PIPING PLAN |

PREPARED BY:

A D P & ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS

982 EAST JEFFERSON ST. BROOKSVILLE, FL 34801 (352) 799-1500 FAX: (352) 799-1225

I HEREBY CERTIFY THAT THE PROPOSED IMPROVEMENTS AS SHOWN ON THESE PLANS WILL BE DESIGNED IN ACCORDANCE WITH THE CITRUS COUNTY LAND DEVELOPMENT CODE

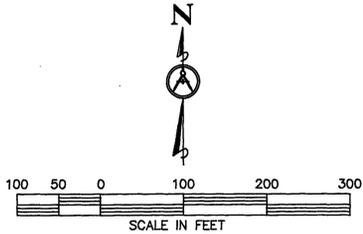
Anthony D. Pedonesi, P.E.
REGISTERED ENGINEER NO. 34653
STATE OF FLORIDA

DATE: _____

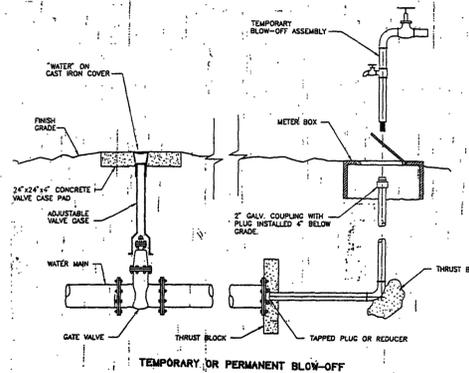
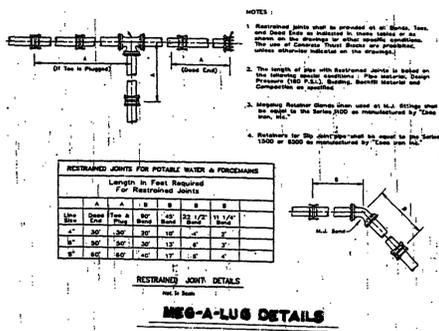
OCTOBER, 1997

GENERAL NOTES:

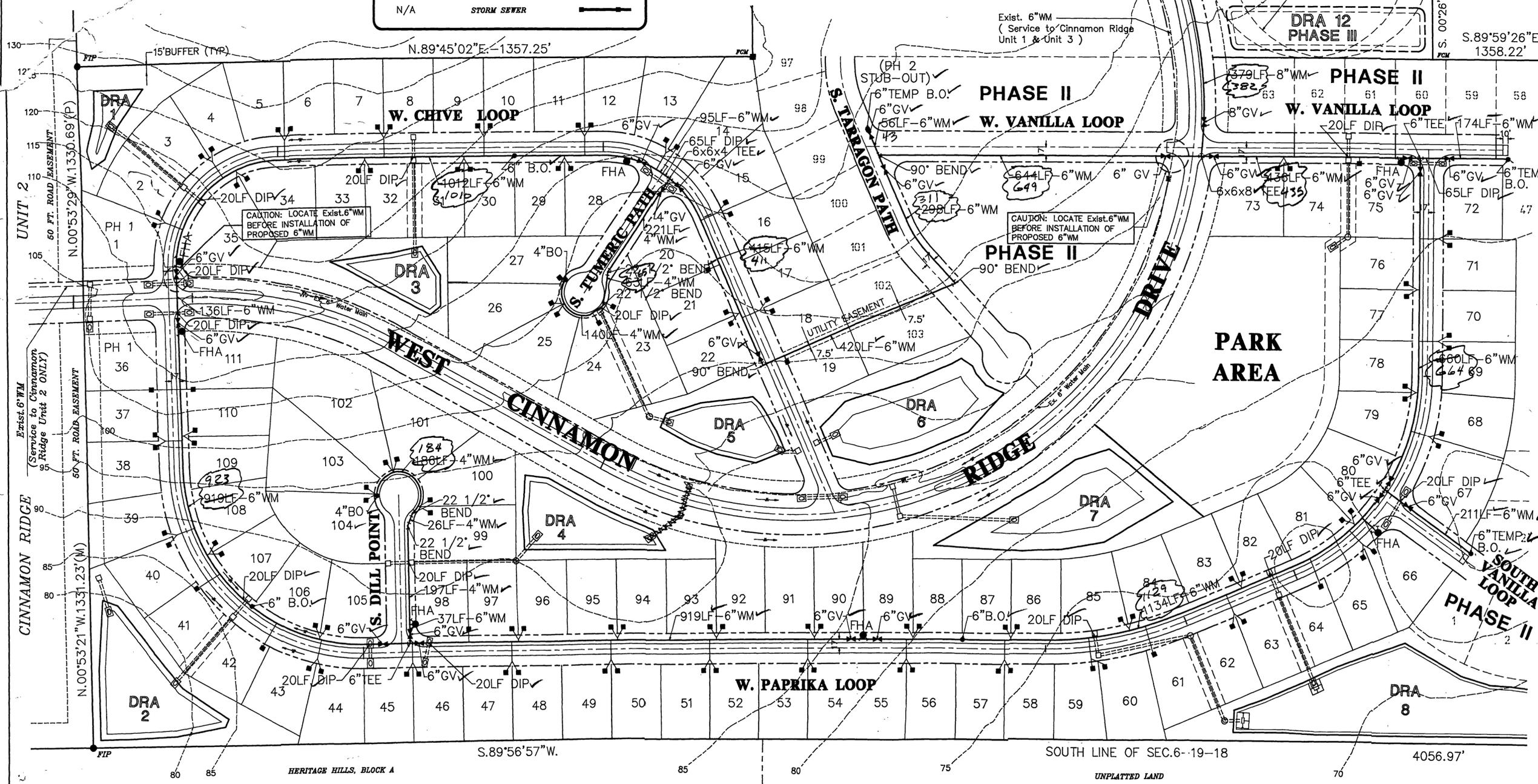
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|----------|---------------------------|----------|
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| N/A | BLOW-OFF ASSEMBLY | 6" BO |
| N/A | FIRE HYDRANT ASSEMBLY | FHA |
| N/A | GATE VALVE W/BOX | 6" GV |
| N/A | DUCTILE IRON PIPE | 20LF DIP |
| N/A | SINGLE SERVICE CONNECTION | ↓ |
| N/A | DOUBLE SERVICE CONNECTION | ↓ ↓ |
| N/A | STORM SEWER | → |



PIPE:
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**WATER SUPPLY SITE PLAN
 AND MISC. DETAILS
 CINNAMON RIDGE PHASE ONE**

| MARK | REVISIONS | DATE |
|------|-----------|--------|
| | AS-BUILT | 4-9-98 |

| | |
|--------|---------------|
| App.by | ADP |
| Des.by | JROS GRAPHICS |
| Drw.by | JROS |
| Date | 11-18-96 |
| Scale | As Noted |

Project Number:
95-003

ENGINEER OF RECORD
 Anthony D. Pedonesi, P.E.
 Registration No. 34653

SHEET NO.
17 OF 17

DESCRIPTION:
 Being a part of the following described Parent Tract.
 The Southeast 1/4 of the Southeast 1/4
 AND
 The West 1/2 of the Southeast 1/4
 AND
 The Southeast 1/4 of the Southwest 1/4
 All lying and being in Section 6, Township 19 South, Range 18 East, Citrus County, Florida.

Being more particularly described as follows:
 Commence at the Southeast corner of Section 6, Township 19 South, Range 18 East, Citrus County, Florida, run thence S 89°56'57"W along the South line of said Section 6, a distance of 1035.07 feet to the POINT OF BEGINNING; thence continuing along said South Section line, S 89°56'57"W, 3021.90 feet to the Southeast corner of CINNAMON RIDGE UNIT TWO as per plat thereof recorded in Plat Book 12, Page 55 of the Public Records of Citrus County, Florida; thence N 00°33'29"W along the East line of said Cinnamon Ridge Unit Two, a distance of 1330.69 feet to the Northwest corner of the SW 1/4 of the SW 1/4 of said Section 6; thence N 89°43'02"E along the North line of said SW 1/4 of the SW 1/4, a distance of 1357.25 feet to the Northeast corner of said SW 1/4 of the SW 1/4; thence S 00°41'39"E, 83.77 feet; thence S 23°26'08"E, 587.82 feet; thence N 66°33'52"E, 213.49 feet to the Westerly right-of-way line of a future 60 foot wide road; thence S 41°11'12"E along said future right-of-way, a distance of 40.86 feet; thence further along said future right-of-way, 18.69 feet along the arc of a curve concave Westery having a radius of 25.00 feet and a central angle of 42°50'01"; thence continuing along said future right-of-way line, 115.92 feet along the arc of a curve concave Northeasterly having a radius of 50.00 feet and a central angle of 132°50'01"; thence S 41°11'12"E radial to the last aforementioned curve, a distance of 100.00 feet to the Westerly right-of-way line of a proposed 80 foot wide road; thence along said proposed right-of-way line, 1008.33 feet along the arc of a curve concave Westery having a radius of 760.00 feet and a central angle of 76°01'02"; thence Due East 594.28 feet to the East line of the NW 1/4 of the SE 1/4 of said Section 6; thence S 00°26'17"E along said East line of the NW 1/4 of the SE 1/4, a distance of 100.29 feet; thence Due West, 468.15 feet to the Easterly right-of-way line of a proposed 80 foot wide road; thence along said Easterly right-of-way line, 273.00 feet along the arc of a curve concave Westery having a radius of 840.00 feet and a central angle of 183°71'17"; thence 39.93 along the arc of a curve concave Northeasterly having a radius of 25.00 feet and a central angle of 91°30'36" to the North right-of-way line of a proposed 60 foot road; thence Due East along said North right-of-way line, a distance of 545.77 feet; thence leaving said proposed 60 foot road, Due South, 205.00 feet; thence Due East, 25.00 feet; thence Due South, 267.94 feet; thence 339.94 feet along the arc of a curve concave Westery having a radius of 600.00 feet and a central angle of 32°27'43"; thence S 35°19'40"W, 30.00 feet to the center-line of a proposed 60 foot wide road; thence S 54°40'20"E along said center-line, 7.75 feet; thence S 35°19'40"W, 175.00 feet; thence S 54°40'20"E, 68.00 feet; thence 308.54 feet along the arc of a curve concave Northerly having a radius of 400.00 feet and a central angle of 44°11'44"; thence S 08°52'04"E radial to last aforesaid curve, a distance of 114.57 feet to the POINT OF BEGINNING.

Containing 84.988 acres more or less.

CINNAMON RIDGE

UNIT FOUR PHASE ONE

LYING IN
 SEC 6, TWP 19S, RNG 18E, CITRUS COUNTY, FLORIDA

PL 001
 A/C

ABSTRACTOR'S CERTIFICATE

I hereby certify that Gulf Highway Land Corporation is the record owner of the lands hereby platted, that there are no delinquent taxes on such lands, that record title to all access roads is held by Citrus County, the State of Florida or Cinnamon Ridge Property Owners Association, and that there are no mortgage holders of record concerning this property other than as shown.
 Dated at Citrus County, Florida, this 10 day of Sept 1997

CRYSTAL RIVER TITLE COMPANY.
 BY: Devil C. Roberts, President

DEDICATION:

Know all men by the e presents, that GULF HIGHWAY LAND CORPORATION, a Florida corporation, being the owner in fee simple of the lands in the attached plat entitled CINNAMON RIDGE, UNIT FOUR, PHASE ONE, located in Citrus County, Florida, does hereby dedicate said lands and plat for the use and purposes therein expressed and dedicates the road rights-of-way and easements together with all improvements thereon, to Citrus County, Florida, for public use. Reserving unto themselves, their successors or assigns, the reversion or reverts thereof whenever discontinued by law.

In witness whereof, Gulf Highway Land Corporation has caused these presents to be signed and attested to by the officers named below and its corporate seal to be affixed hereto on this 4th day of September, 1997

ATTEST: GULF HIGHWAY LAND CORPORATION.
 BY: James N. Paxton, President
Virginia W. Piper, Secretary
 BY: Sharon E. Padonosi
 Printed Name

APPROVAL OF COUNTY OFFICIALS
 BY: _____ COUNTY ENGINEER
 BY: _____ DIRECTOR OF PUBLIC WORKS
 BY: _____ DIRECTOR OF ENVIRONMENTAL HEALTH
 BY: _____ DIRECTOR OF PLANNING

APPROVAL AS TO FORM AND SUBSTANCE
 BY: _____ COUNTY ATTORNEY

COUNTY COMMISSION'S APPROVAL
 The Board of County Commissioners of Citrus County, Florida does hereby approve this plat for recording in the Public Records and accepts the foregoing dedication.

ATTEST: _____ BY: _____
 Clerk of the Circuit Court Board Chairman

CLERK'S ACCEPTANCE
 I hereby certify that the attached plat conforms with the provisions of Chapter 177 of the Florida Statutes, and that said plat was filed for record in Plat Book _____ at Page _____ of the Public Records of Citrus County, Florida, on _____ 1997 file # _____
 BY: _____
 Clerk of the Circuit Court

STATE OF FLORIDA
 COUNTY OF CITRUS
 The foregoing instrument was acknowledged before me this 4th day of Sept 1997 by James N. Paxton as president and Virginia W. Piper as secretary of Gulf Highway Land Corporation, a Florida Corporation, on behalf of said Corporation. They are personally known to me or have produced _____ as identification and did not appear to be under duress.
 BY: Donald C. Barbee
Notary Public, State of FL
 NOTARY PUBLIC
 FLORIDA CERTIFICATE #0034597

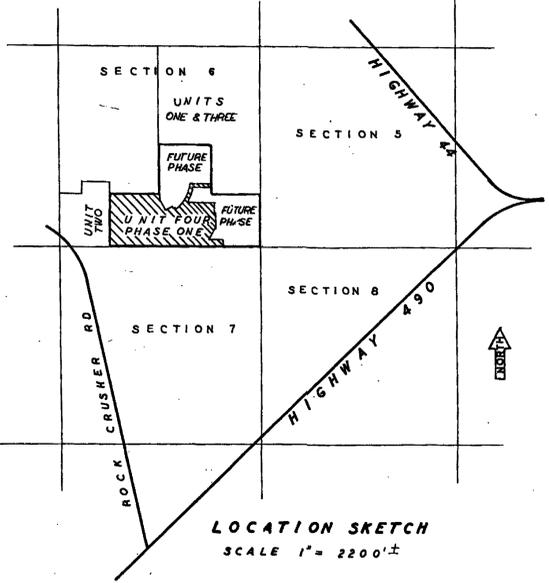
SURVEYORS CERTIFICATE
 I hereby certify that this plat of CINNAMON RIDGE UNIT FOUR PHASE ONE, is a true and correct representation of the lands as recently surveyed and platted under my direction, that the permanent reference monuments as shown thereon were in place on the 4th day of Sept 1997, and that this plat complies with the requirements of Chapter 177, Florida Statutes.

GLOBAL SURVEYS, INC.
 BY: Donald C. Barbee
 Professional Land Surveyor #4882

ENGINEERS CERTIFICATE
 I, the undersigned Professional Engineer, hereby certify that the road and drainage design and construction necessary for this development are in accordance with the Citrus County specifications and good engineering practice.
 ADP & ASSOCIATES
 BY: Anthony D. Padonosi, P.E.
 Registration # 34653

NationsBank, N.A. - Mortgagee
Dean W. Kuna, Senior Vice President

ADP & ASSOCIATES, INC.
 Engineers • Planners • Surveyors
 962 E. JEFFERSON ST.
 BROOKSVILLE, FL 34601
 (813) 799-1500



LINE TABLE

| NUMBER | BEARING | DISTANCE |
|--------|-----------------|----------|
| L1 | S 87° 06' 23" W | 8.21' |
| L2 | S 87° 06' 23" W | 37.31' |
| L3 | S 54° 40' 20" E | 7.75' |
| L4 | S 41° 11' 12" E | 60.00' |
| L5 | S 41° 11' 12" E | 40.86' |
| L6 | N 89° 43' 02" E | 10.00' |

CURVE TABLE

| NUMBER | R = | ARC = | DELTA = |
|--------|--------|--------|------------|
| C1 | 400.00 | 240.00 | 34°22'38" |
| C2 | 400.00 | 120.00 | 17°11'19" |
| C3 | 400.00 | 120.00 | 17°11'19" |
| C4 | 255.00 | 68.35 | 15°34'58" |
| C5 | 255.00 | 81.52 | 18°18'58" |
| C6 | 255.00 | 78.50 | 17°11'19" |
| C7 | 255.00 | 78.50 | 17°11'19" |
| C8 | 255.00 | 88.20 | 20°02'33" |
| C9 | 25.00 | 38.26 | 87°40'37" |
| C10 | 25.00 | 40.71 | 87°17'58" |
| C11 | 185.00 | 285.50 | 86°49'31" |
| C12 | 185.00 | 68.00 | 19°58'48" |
| C13 | 185.00 | 227.50 | 66°50'43" |
| C14 | 25.00 | 38.27 | 90°00'00" |
| C15 | 25.00 | 38.52 | 80°34'44" |
| C16 | 780.00 | 188.97 | 12°30'48" |
| C17 | 780.00 | 197.11 | 14°51'37" |
| C18 | 780.00 | 27.87 | 02°08'30" |
| C19 | 840.00 | 138.82 | 09°30'59" |
| C20 | 840.00 | 293.90 | 20°01'35" |
| C21 | 345.00 | 36.88 | 06°07'18" |
| C22 | 345.00 | 140.00 | 23°15'02" |
| C23 | 345.00 | 140.00 | 23°15'02" |
| C24 | 345.00 | 140.00 | 23°15'02" |
| C25 | 345.00 | 80.00 | 13°17'10" |
| C26 | 200.00 | 311.23 | 89°09'34" |
| C27 | 200.00 | 21.57 | 06°07'18" |
| C28 | 200.00 | 81.18 | 23°15'02" |
| C29 | 200.00 | 81.18 | 23°15'02" |
| C30 | 200.00 | 81.18 | 23°15'02" |
| C31 | 200.00 | 46.38 | 13°17'10" |
| C32 | 408.00 | 100.00 | 14°08'50" |
| C33 | 408.00 | 100.00 | 14°08'50" |
| C34 | 408.00 | 100.00 | 14°08'50" |
| C35 | 408.00 | 100.00 | 14°08'50" |
| C36 | 408.00 | 100.00 | 14°08'50" |
| C37 | 408.00 | 100.00 | 14°08'50" |
| C38 | 405.00 | 15.07 | 02°07'55" |
| C39 | 25.00 | 38.27 | 90°00'00" |
| C40 | 25.00 | 38.27 | 90°00'00" |
| C41 | 50.00 | 231.84 | 268°40'00" |
| C42 | 25.00 | 18.88 | 42°50'00" |
| C43 | 25.00 | 18.88 | 42°50'00" |
| C44 | 50.00 | 2.20 | 02°31'03" |
| C45 | 50.00 | 75.88 | 86°43'51" |

| NUMBER | R = | ARC = | DELTA = |
|--------|--------|--------|------------|
| C46 | 50.00 | 28.33 | 32°27'35" |
| C47 | 50.00 | 82.36 | 60°00'00" |
| C48 | 50.00 | 71.07 | 61°26'28" |
| C49 | 50.00 | 2.20 | 02°31'03" |
| C50 | 895.00 | 277.08 | 22°50'34" |
| C51 | 725.00 | 288.04 | 22°50'34" |
| C52 | 725.00 | 311.00 | 22°50'34" |
| C53 | 725.00 | 100.38 | 07°38'57" |
| C54 | 725.00 | 100.00 | 07°35'20" |
| C55 | 725.00 | 100.85 | 07°38'17" |
| C56 | 895.00 | 35.43 | 04°34'10" |
| C57 | 895.00 | 128.38 | 10°25'03" |
| C58 | 895.00 | 35.39 | 07°51'21" |
| C59 | 425.00 | 235.72 | 31°48'43" |
| C60 | 425.00 | 282.08 | 35°19'40" |
| C61 | 455.00 | 200.11 | 28°11'56" |
| C62 | 455.00 | 82.89 | 07°56'12" |
| C63 | 455.00 | 103.48 | 13°01'51" |
| C64 | 455.00 | 33.73 | 04°10'33" |
| C65 | 25.00 | 36.40 | 83°28'13" |
| C66 | 25.00 | 36.40 | 83°28'14" |
| C67 | 395.00 | 11.50 | 01°40'07" |
| C68 | 395.00 | 140.00 | 20°18'27" |
| C69 | 395.00 | 135.00 | 19°34'58" |
| C70 | 395.00 | 125.00 | 18°07'54" |
| C71 | 395.00 | 51.13 | 07°24'59" |
| C72 | 350.00 | 218.27 | 22°50'34" |
| C73 | 350.00 | 43.88 | 04°34'10" |
| C74 | 350.00 | 100.00 | 10°25'03" |
| C75 | 350.00 | 75.41 | 07°51'21" |
| C76 | 350.00 | 228.30 | 28°44'54" |
| C77 | 240.00 | 282.81 | 67°08'23" |
| C78 | 250.00 | 7.28 | 01°40'07" |
| C79 | 250.00 | 86.44 | 20°18'27" |
| C80 | 250.00 | 85.44 | 19°34'58" |
| C81 | 250.00 | 79.11 | 18°07'54" |
| C82 | 250.00 | 34.38 | 07°24'59" |
| C83 | 25.00 | 38.27 | 90°00'00" |
| C84 | 25.00 | 38.27 | 90°00'00" |
| C85 | 25.00 | 35.42 | 81°10'08" |
| C86 | 25.00 | 39.93 | 91°30'38" |
| C87 | 25.00 | 38.49 | 88°13'20" |
| C88 | 25.00 | 43.81 | 100°24'34" |
| C89 | 840.00 | 127.30 | 08°41'00" |
| C90 | 840.00 | 531.81 | 28°42'41" |

| NUMBER | R = | ARC = | DELTA = |
|--------|--------|--------|------------|
| C91 | 840.00 | 419.19 | 28°35'33" |
| C92 | 840.00 | 102.96 | 07°01'22" |
| C93 | 840.00 | 100.74 | 06°52'17" |
| C94 | 840.00 | 100.06 | 06°48'30" |
| C95 | 840.00 | 100.82 | 06°52'36" |
| C96 | 840.00 | 274.95 | 18°45'18" |
| C97 | 25.00 | 32.88 | 74°50'58" |
| C98 | 25.00 | 48.86 | 114°18'08" |
| C99 | 255.00 | 297.36 | 66°48'50" |
| C100 | 255.00 | 79.14 | 17°46'51" |
| C101 | 255.00 | 80.86 | 18°10'05" |
| C102 | 255.00 | 84.50 | 18°39'10" |
| C103 | 255.00 | 52.87 | 11°52'44" |
| C104 | 225.00 | 282.38 | 66°48'50" |
| C105 | 225.00 | 127.98 | 32°35'25" |
| C106 | 225.00 | 134.40 | 34°13'25" |
| C107 | 195.00 | 52.23 | 12°20'48" |
| C108 | 25.00 | 47.51 | 108°52'38" |
| C109 | 25.00 | 47.51 | 108°52'41" |
| C110 | 195.00 | 46.87 | 13°42'44" |
| C111 | 25.00 | 18.89 | 42°50'00" |
| C112 | 25.00 | 18.89 | 42°50'00" |
| C113 | 50.00 | 231.84 | 268°40'00" |
| C114 | 50.00 | 46.75 | 52°28'28" |
| C115 | 50.00 | 48.20 | 52°58'08" |
| C116 | 50.00 | 40.87 | 46°57'10" |
| C117 | 50.00 | 50.85 | 56°02'41" |
| C118 | 50.00 | -8.27 | 59°18'35" |
| C119 | 455.00 | 95.94 | 12°04'51" |
| C120 | 455.00 | 100.00 | 12°35'34" |
| C121 | 455.00 | 32.38 | 04°04'30" |
| C122 | 800.00 | 42.87 | 04°04'30" |
| C123 | 800.00 | 131.87 | 12°35'33" |
| C124 | 800.00 | 16.540 | 18°47'40" |
| C125 | 800.00 | 338.84 | 32°27'43" |
| C126 | 840.00 | 380.34 | 25°58'33" |
| C127 | 840.00 | 273.00 | 18°37'17" |
| C128 | 840.00 | 107.33 | 07°19'18" |
| C129 | 50.00 | 115.92 | 132°50'01" |
| C130 | 25.00 | 18.89 | 42°50'01" |
| C131 | 405.00 | 15.16 | 02°08'39" |
| C132 | 550.00 | 843.21 | 56°35'20" |
| C133 | 550.00 | 135.80 | 14°08'50" |
| C134 | 550.00 | 135.80 | 14°08'50" |
| C135 | 550.00 | 135.80 | 14°08'50" |
| C136 | 550.00 | 135.80 | 14°08'50" |

DESCRIPTION:
 Being a part of the following described Parent Tract.
 The Southeast 1/4 of the Southeast 1/4
 AND
 The West 1/2 of the Southeast 1/4
 AND
 The Southeast 1/4 of the Southwest 1/4
 All lying and being in Section 6, Township 19 South, Range 18 East, Citrus County, Florida.

CINNAMON RIDGE

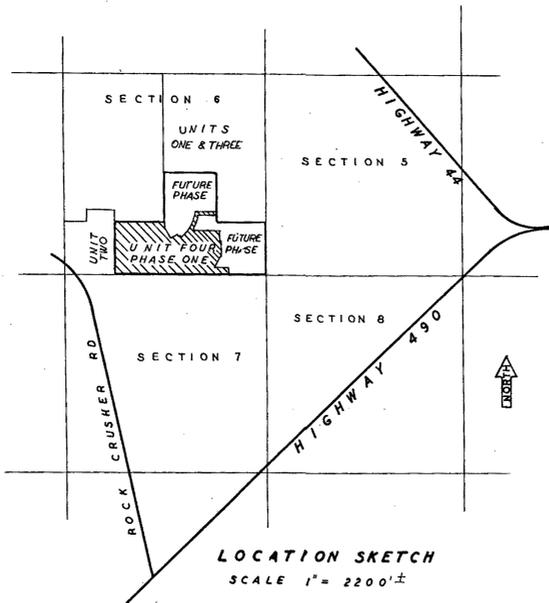
UNIT FOUR PHASE ONE

LYING IN
 SEC 6, TWP 19S, RNG 18E, CITRUS COUNTY, FLORIDA

PLAT BOOK _____
 PAGE _____

Being more particularly described as follows:
 Commence at the Southeast corner of Section 6, Township 19 South, Range 18 East, Citrus County, Florida, run thence S 89°56'57"W along the South line of said Section 6, a distance of 1035.07 feet to the POINT OF BEGINNING, thence continuing along said South Section line, S 89°56'57"W, 3021.90 feet to the Southeast corner of CINNAMON RIDGE UNIT TWO as per plat thereof recorded in Plat Book 12, Page 55 of the Public Records of Citrus County, Florida; thence N 00°53'29"W along the East line of said Cinnamon Ridge Unit Two, a distance of 1330.69 feet to the Northwest corner of the SW 1/4 of the SW 1/4 of said Section 6; thence N 89°45'02"E along the North line of said SW 1/4 of the SW 1/4, a distance of 1357.25 feet to the Northeast corner of said SW 1/4 of the SW 1/4, thence S 00°41'39"E, 83.77 feet; thence S 23°26'08"E, 587.82 feet; thence N 65°33'52"E, 213.49 feet to the Westery right-of-way line of a future 60 foot wide road; thence S 41°11'12"E along said future right-of-way, a distance of 40.86 feet; thence further along said future right-of-way, 18.69 feet along the arc of a curve concave Westery having a radius of 25.00 feet and a central angle of 42°50'01"; thence continuing along said future right-of-way line, 115.92 feet along the arc of a curve concave Northeasterly having a radius of 50.00 feet and a central angle of 132°50'01"; thence S 41°11'12"E radial to the last aforementioned curve, a distance of 100.00 feet to the Westery right-of-way line of a proposed 80 foot wide road; thence along said proposed right-of-way line, 1008.33 feet along the arc of a curve concave Westery having a radius of 760.00 feet and a central angle of 76°01'02"; thence Due East 594.28 feet to the East line of the NW 1/4 of the SE 1/4 of aforesaid Section 6; thence S 00°26'17"E along said East line of the NW 1/4 of the SE 1/4, a distance of 100.29 feet; thence Due West, 468.15 feet to the Easterly right-of-line of a proposed 80 foot wide road; thence along said Easterly right-of-way line, 273.00 feet along the arc of a curve concave Westery having a radius of 840.00 feet and a central angle of 183°71'17"; thence 39.93 along the arc of a curve concave Northeasterly having a radius of 25.00 feet and a central angle of 91°30'56" to the North right-of-way line of a proposed 60 foot road; thence Due East along said North right-of-way line, a distance of 549.77 feet; thence leaving said proposed 60 foot road, Due South, 205.00 feet; thence Due East, 25.00 feet; thence Due South, 267.94 feet; thence 339.94 feet along the arc of a curve concave Westery having a radius of 600.00 feet and a central angle of 32°27'43"; thence S 35°19'40"W, 30.00 feet to the center-line of a proposed 60 foot wide road; thence S 54°40'20"E along said center-line, 7.75 feet; thence S 35°19'40"W, 175.00 feet; thence S 54°40'20"E, 68.00 feet; thence 308.54 feet along the arc of a curve concave Northerly having a radius of 400.00 feet and a central angle of 44°11'44"; thence S 08°52'04"E radial to last aforesaid curve, a distance of 114.57 feet to the POINT OF BEGINNING.

Containing 84.988 acres more or less.



ABTRACTOR'S CERTIFICATE

I hereby certify that Gulf Highway Land Corporation is the record owner of the lands hereby platted, that there are no delinquent taxes on such lands, that record title to all access roads is held by Citrus County, the State of Florida or Cinnamon Ridge Property Owners Association, and that there are no mortgage holders of record concerning this property other than as shown.
 Dated at Citrus County, Florida, this 10 day of Sept, 1997

CRYSTAL RIVER TITLE COMPANY

BY: Devil Roberts, President

APPROVAL OF COUNTY OFFICIALS

BY: _____ COUNTY ENGINEER

BY: _____ DIRECTOR OF PUBLIC WORKS

BY: _____ DIRECTOR OF ENVIRONMENTAL HEALTH

BY: _____ DIRECTOR OF PLANNING

APPROVAL AS TO FORM AND SUBSTANCE

BY: _____ COUNTY ATTORNEY

COUNTY COMMISSION'S APPROVAL

The Board of County Commissioners of Citrus County, Florida does hereby approve this plat for recording in the Public Records and accepts the foregoing dedication.

ATTEST _____ Clerk of the Circuit Court
 BY: _____ Board Chairman

CLERK'S ACCEPTANCE

I hereby certify that the attached plat conforms with the provisions of Chapter 177 of the Florida Statutes, and that said plat was filed for record in Plat Book _____ at Pages _____ of the Public Records of Citrus County, Florida, at _____ on _____ 1997 file # _____

BY: _____
 Clerk of the Circuit Court

DEDICATION:

Know all men by these presents, that GULF HIGHWAY LAND CORPORATION, a Florida corporation, being the owner in fee simple of the lands in the attached plat entitled CINNAMON RIDGE, UNIT FOUR, PHASE ONE, located in Citrus County, Florida, does hereby dedicate said lands and plat for the uses and purposes therein expressed and dedicates the road rights-of-way and easements, together with all improvements thereon, to Citrus County, Florida, for public use. Reserving unto themselves, their successors or assigns, the reversion or reversions thereof whenever discontinued by law.

In witness whereof, Gulf Highway Land Corporation has caused these presents to be signed and attested to by the officers named below and its corporate seal to be affixed hereto on this 4th day of September, 1997

ATTEST: _____ GULF HIGHWAY LAND CORPORATION:

BY: James N. Paxton
Winston Patton
 Printed Name
James N. Paxton
 Printed Name
Virginia W. Piper
 Virginia W. Piper, Secretary

BY: Sharon E. Pedonasi
Sharon E. Pedonasi
 Printed Name

**STATE OF FLORIDA
 COUNTY OF CITRUS**

The foregoing instrument was acknowledged before me this 4th day of Sept, 1997 by James N. Paxton as president and Virginia W. Piper as secretary of Gulf Highway Land Corporation, a Florida Corporation, on behalf of said Corporation. They are personally known to me or have produced me as identification and did (did not) take oath.

BY: Amory Collins
Amory Collins
 Notary Public, State of FL
 NOTARY PUBLIC
 FLORIDA CERTIFICATE # CC45397

SURVEYORS CERTIFICATE

I hereby certify that this plat of CINNAMON RIDGE UNIT FOUR PHASE ONE, is a true and correct representation of the lands as recently surveyed and platted under my direction, that the permanent reference monuments as shown thereon were in place on the 4th day of September, 1997, and that this plat complies with the requirements of Chapter 177, Florida Statutes.

GLOBAL SURVEYS, INC.
 BY: Donald C. Barbe
 Donald C. Barbe
 Professional Land Surveyor #4882

ENGINEERS CERTIFICATE

I, the undersigned Professional Engineer, hereby certify that the road and drainage design and construction necessary for this development are in accordance with the Citrus County specifications and good engineering practices.

ADP & ASSOCIATES
 BY: Anthony D. Pedonasi, PE
 Anthony D. Pedonasi, PE
 Registration # 34653

NationsBank, N.A. - Mortgagee

Dean W. Kuna
 Dean W. Kuna, Senior Vice President

LINE TABLE

| NUMBER | BEARING | DISTANCE |
|--------|-----------------|----------|
| L1 | S 67° 06' 23" W | 8.21' |
| L2 | S 67° 06' 23" W | 37.31' |
| L3 | S 54° 40' 20" E | 7.75' |
| L4 | S 41° 11' 12" E | 60.00' |
| L5 | S 41° 11' 12" E | 40.88' |
| L6 | N 89° 45' 02" E | 10.00' |

CURVE TABLE

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| C2 | 400.00 | 120.00 | 17°11'19" |
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| C6 | 255.00 | 76.50 | 17°11'19" |
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| C9 | 25.00 | 38.26 | 87°40'37" |
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| C32 | 405.00 | 100.00 | 14°08'50" |
| C33 | 405.00 | 100.00 | 14°08'50" |
| C34 | 405.00 | 100.00 | 14°08'50" |
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| C50 | 695.00 | 277.08 | 22°50'34" |
| C51 | 725.00 | 289.04 | 22°50'34" |
| C52 | 725.00 | 301.00 | 22°50'34" |
| C53 | 725.00 | 100.38 | 07°35'57" |
| C54 | 725.00 | 100.00 | 07°35'20" |
| C55 | 725.00 | 100.65 | 07°38'17" |
| C56 | 695.00 | 55.43 | 04°34'10" |
| C57 | 695.00 | 126.38 | 10°25'03" |
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| C79 | 250.00 | 68.64 | 20°18'27" |
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| C83 | 25.00 | 39.27 | 90°00'00" |
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| C85 | 25.00 | 35.42 | 81°10'08" |
| C86 | 25.00 | 39.93 | 91°30'36" |
| C87 | 25.00 | 36.49 | 88°13'20" |
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| C89 | 840.00 | 127.30 | 08°41'00" |
| C90 | 840.00 | 331.61 | 28°42'41" |

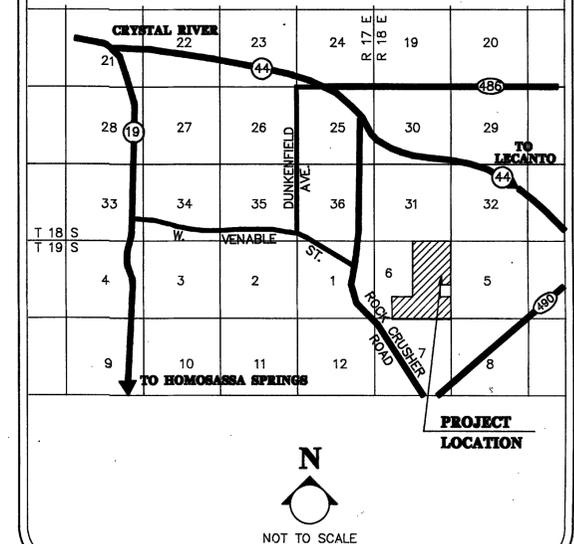
| NUMBER | R = | ARC = | DELTA = |
|--------|--------|--------|------------|
| C91 | 840.00 | 418.19 | 28°35'33" |
| C92 | 840.00 | 102.96 | 07°01'22" |
| C93 | 840.00 | 100.74 | 06°52'17" |
| C94 | 840.00 | 100.06 | 06°49'50" |
| C95 | 840.00 | 100.82 | 06°52'36" |
| C96 | 840.00 | 274.85 | 18°45'16" |
| C97 | 25.00 | 32.66 | 74°50'59" |
| C98 | 25.00 | 49.86 | 114°16'06" |
| C99 | 255.00 | 297.38 | 66°48'50" |
| C100 | 255.00 | 79.14 | 17°46'11" |
| C101 | 255.00 | 80.86 | 18°10'05" |
| C102 | 255.00 | 84.50 | 18°59'10" |
| C103 | 255.00 | 52.87 | 11°52'44" |
| C104 | 225.00 | 262.38 | 66°48'50" |
| C105 | 225.00 | 127.98 | 32°35'25" |
| C106 | 225.00 | 134.40 | 34°13'25" |
| C107 | 195.00 | 52.23 | 15°29'49" |
| C108 | 25.00 | 47.51 | 108°52'41" |
| C109 | 25.00 | 47.51 | 108°52'41" |
| C110 | 195.00 | 46.67 | 13°42'44" |
| C111 | 25.00 | 18.69 | 42°50'00" |
| C112 | 25.00 | 18.69 | 42°50'00" |
| C113 | 50.00 | 231.84 | 265°40'00" |
| C114 | 50.00 | 48.75 | 52°25'26" |
| C115 | 50.00 | 48.20 | 52°58'08" |
| C116 | 50.00 | 40.97 | 46°57'10" |
| C117 | 50.00 | 50.65 | 58°02'41" |
| C118 | 50.00 | -8.27 | 55°18'35" |
| C119 | 455.00 | 95.84 | 12°04'51" |
| C120 | 455.00 | 100.00 | 12°35'33" |
| C121 | 455.00 | 32.36 | 04°04'30" |
| C122 | 800.00 | 42.87 | 04°04'30" |
| C123 | 600.00 | 131.87 | 12°35'33" |
| C124 | 300.00 | 163.40 | 15°47'40" |
| C125 | 800.00 | 339.94 | 32°27'43" |
| C126 | 840.00 | 380.34 | 29°58'33" |
| C127 | 840.00 | 273.00 | 18°37'17" |
| C128 | 840.00 | 107.33 | 07°19'16" |
| C129 | 50.00 | 115.92 | 132°50'01" |
| C130 | 25.00 | 18.69 | 42°50'01" |
| C131 | 405.00 | 15.16 | 02°08'39" |
| C132 | 550.00 | 543.21 | 56°35'20" |
| C133 | 550.00 | 135.80 | 14°08'50" |
| C134 | 550.00 | 135.80 | 14°08'50" |
| C135 | 550.00 | 135.80 | 14°08'50" |
| C136 | 550.00 | 135.80 | 14°08'50" |

ADP & ASSOCIATES, INC.
 Engineers • Planners • Surveyors
 962 E. JEFFERSON ST.
 BROOKVILLE, FL. 34601
 (352) 799-1500

CONSTRUCTION PLANS
FOR
CINNAMON RIDGE
POTABLE WATER
TREATMENT FACILITY

SEC. 6, TWP. 19S., RGE. 18E.
CITRUS COUNTY, FLORIDA

VICINITY
MAP



INDEX

| SHT. NO. | DESCRIPTION |
|----------|---------------------------|
| 1 | COVER SHEET |
| 2 | SITE PLAN |
| 3 | WELL HEAD AND PIPING PLAN |

PREPARED BY:

**A
D
P** & ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS

962 EAST JEFFERSON ST. BROOKSVILLE, FL 34801 (352) 799-1600 FAX: (352) 799-1225

I HEREBY CERTIFY THAT THE PROPOSED IMPROVEMENTS AS SHOWN ON THESE PLANS WILL BE DESIGNED IN ACCORDANCE WITH THE CITRUS COUNTY LAND DEVELOPMENT CODE

Anthony D. Pedonesi, P.E.
REGISTERED ENGINEER NO.34653
STATE OF FLORIDA
DATE: _____

OCTOBER, 1997

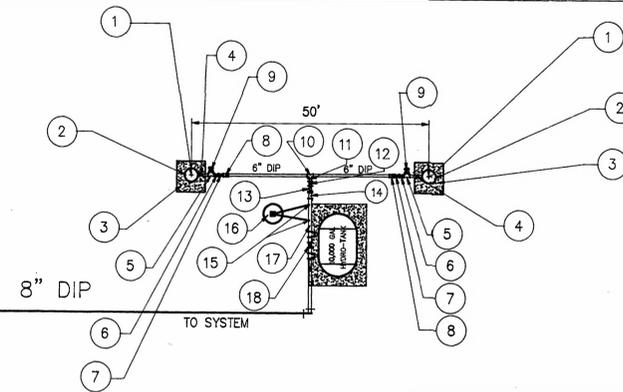
WATER PLANT LEGAL DESCRIPTION

Beginning at the southeast corner of Section 6, Township 19S, Range 18E, Citrus County, Florida, thence running north, N00° 11' 11" W, a distance of 1334.94', thence S88° 59' 26"E a distance of 1358.22', thence N00° 26' 17"W a distance of 153.47' to a Point of Beginning. Thence running N89° 33' 43" E, a distance of 453.45' to a curve having a radius of 840', a chord bearing of N20° 48' 31" W and an arc length of 107.05', thence running S89° 33' 43" W, a distance of 490.69', thence running S00° 26' 17" E a distance of 100.29', to the Point of Beginning, containing 1.084 acres MOL.



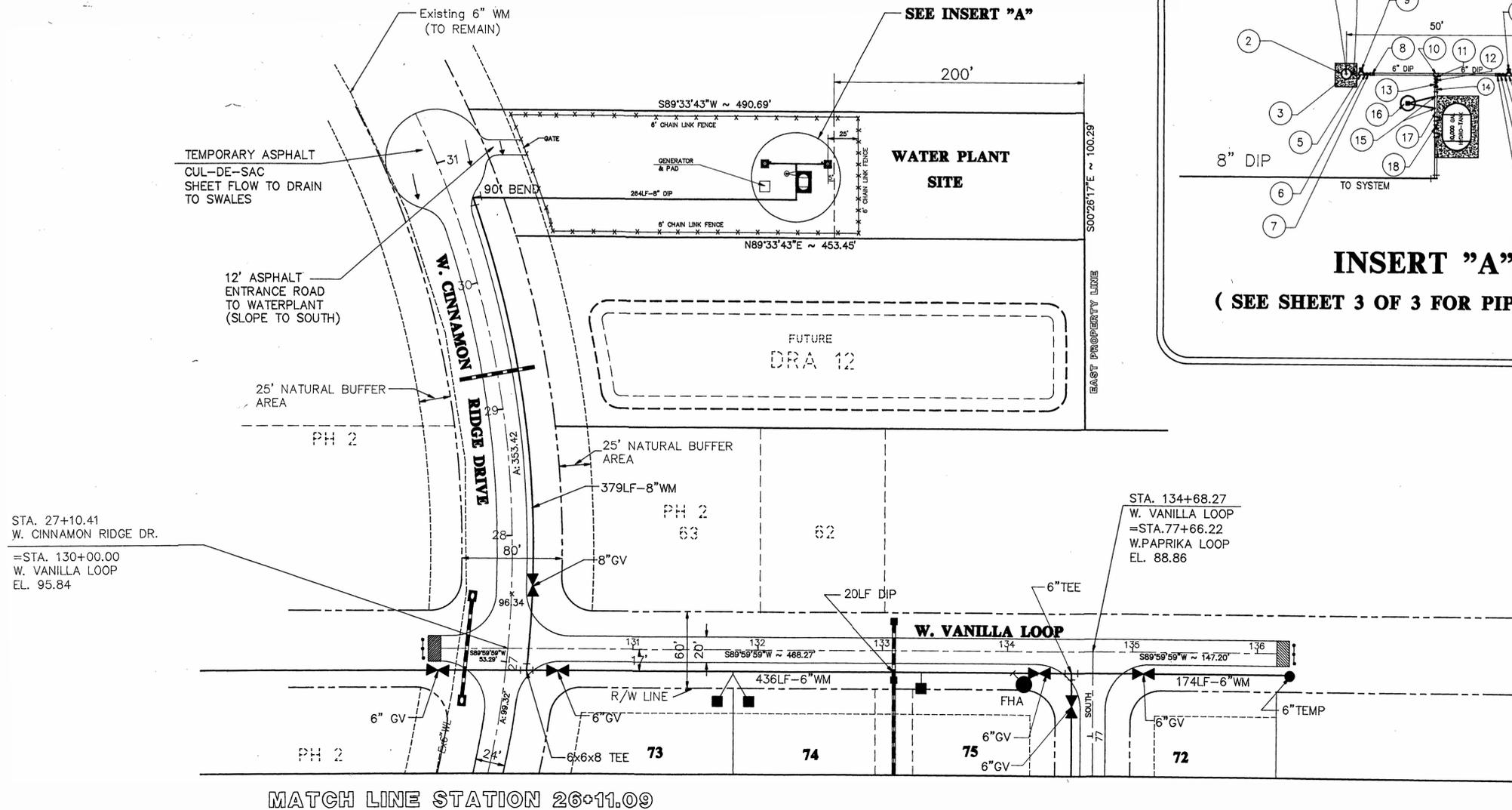
WATER PLANT SYSTEM

- | | | | |
|----|--|----|----------------------------|
| 1 | DOWNANGLED-SMOOTH NOSE RAW WATER SAMPLING PORT-MIN 12" ABOVE CONC SLAB | 11 | (2) 45' EL. OUT OF GROUND |
| 2 | 10" WELL, 500 GAL./MIN. MINIMUM SEE CURVE | 12 | 6" GV |
| 3 | 6"x 6" - 6" THICK CONCRETE APRON (3000 PSI) | 13 | 6" WATER SPECIALTIES METER |
| 4 | PRESSURE GAUGE | 14 | 6"x8" INCREASER |
| 5 | 6"x4"x8" TEE | 15 | 2-POINTS OF CL. |
| 6 | 6" C.V. | 16 | CHLORINATION W/ENCLOSURE |
| 7 | 6" G.V. | 17 | 8" DIP |
| 8 | (2) 6" 45' EL. | 18 | 8" BY-PASS GV |
| 9 | 4" G.V. FOR FLUSHING | | |
| 10 | 6"x6"x8" TEE | | |



INSERT "A"
(SEE SHEET 3 OF 3 FOR PIPING PLAN)

FUTURE PHASE



MATCH LINE STATION 26+11.09

ADP & ASSOCIATES, INC.
Engineers • Planners • Surveyors
962 E. JEFFERSON STREET
BROOKSVILLE, FL 34601
(352) 799-1500
(352) 799-1225

CINNAMON RIDGE POTABLE WATER TREATMENT FACILITY

SITE PLAN

| MARK | REVISIONS | DATE |
|------|-------------------------|---------|
| 1 | ADDED PH2 PIPE TO DRA12 | 7-21-97 |

| | |
|--------|----------|
| App.by | ADP |
| Des.by | JIROS |
| Drw.by | JIROS |
| Date | 10-15-97 |
| Scale | As Noted |

Project Number
95003

ENGINEER OF RECORD
Anthony D. Pedonesi, P.E.
Registration No. 34653

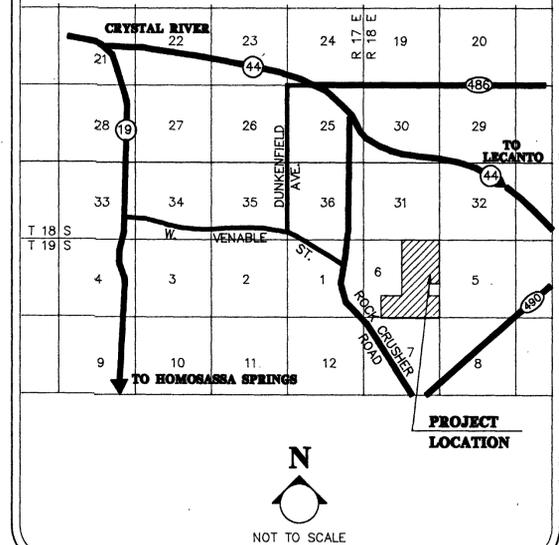
SHEET NO.

2 OF 3

CONSTRUCTION PLANS
FOR
CINNAMON RIDGE
POTABLE WATER
TREATMENT FACILITY

SEC. 6, TWP. 19S., RGE. 18E.
CITRUS COUNTY, FLORIDA

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PREPARED BY:

ADP & ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS

962 EAST JEFFERSON ST. BROOKSVILLE, FL 34601 (352) 799-1600 FAX: (352) 799-1225

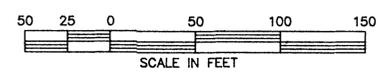
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Anthony D. Pedonesi, P.E.
REGISTERED ENGINEER NO. 34653
STATE OF FLORIDA
DATE: _____

OCTOBER, 1997

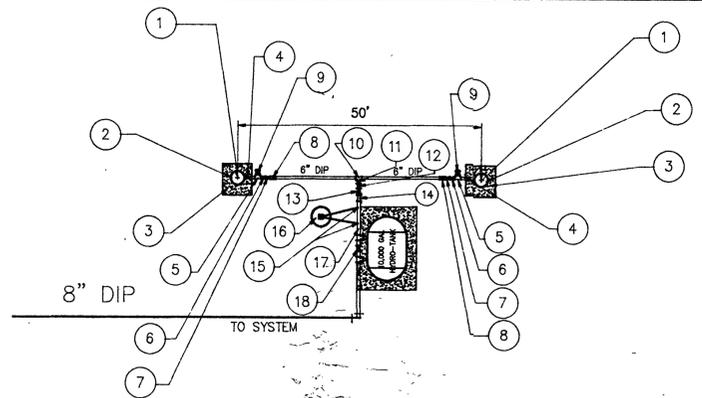
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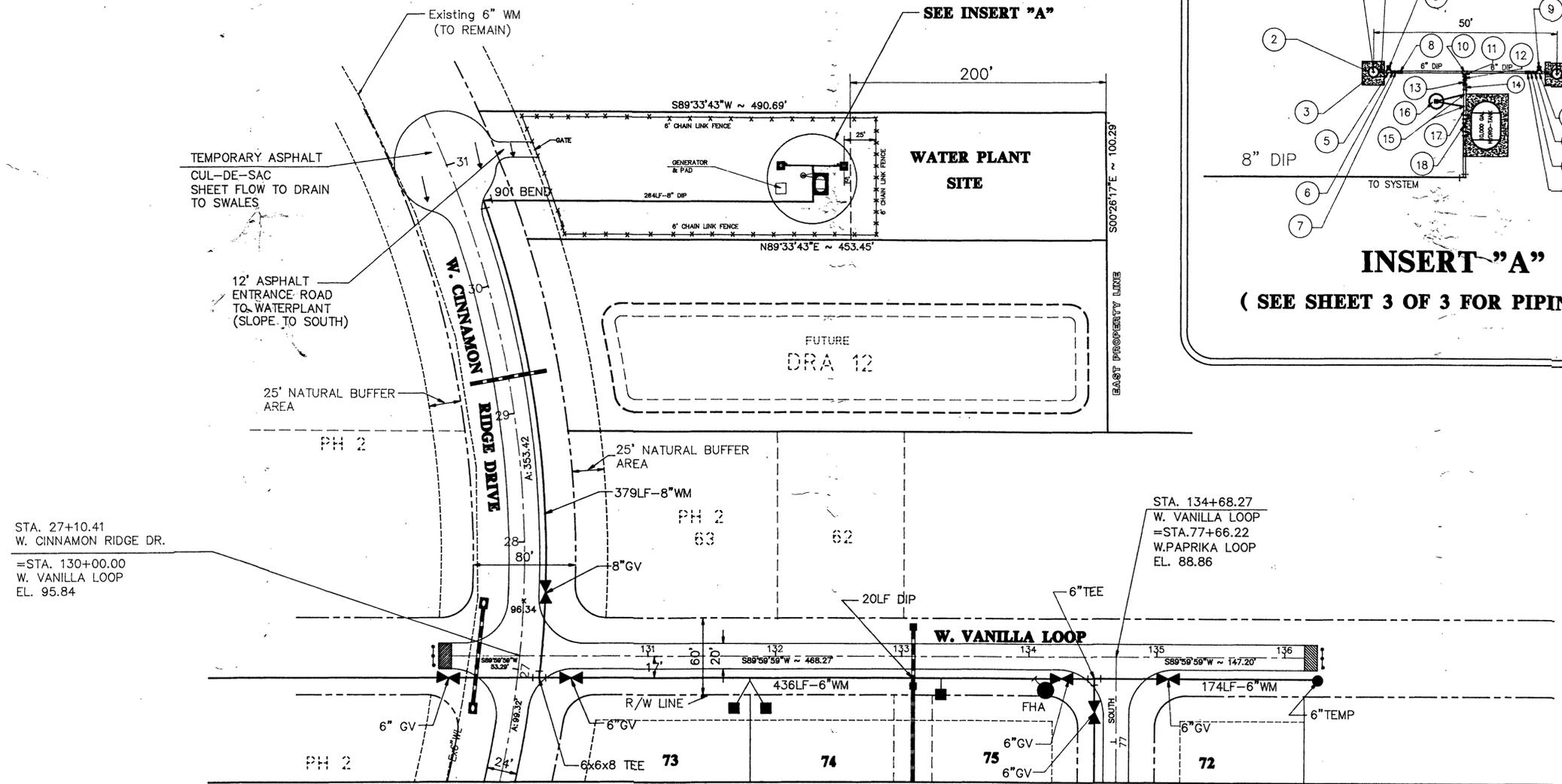
WATER PLANT SYSTEM

- | | |
|--|------------------------------|
| ① DOWNANGLED-SMOOTH ROSE RAW WATER SAMPLING PORT-MIN 12" ABOVE CONC SLAB | ⑪ (2) 45' EL. OUT OF GROUND |
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| ⑨ 4" G.V. FOR FLUSHING | |
| ⑩ 6"x6"x6" TEE | |



INSERT "A"
(SEE SHEET 3 OF 3 FOR PIPING PLAN)

FUTURE PHASE



MATCH LINE STATION 26+11.09

ADP & ASSOCIATES, INC.
 Engineers • Planners • Surveyors
 962 E. JEFFERSON STREET
 BROOKSVILLE, FL 34601
 (352) 799-1500
 (352) 799-1225

CINNAMON RIDGE POTABLE WATER TREATMENT FACILITY
SITE PLAN

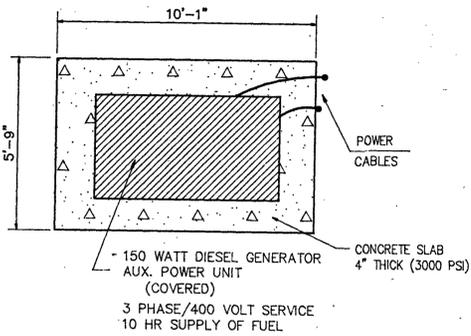
| MARK | REVISIONS | DATE |
|------|-------------------------|---------|
| 1 | ADDED PH2 PIPE TO DRA12 | 7-21-97 |

| | |
|--------|----------|
| App.by | ADP |
| Des.by | JROS |
| Drw.by | JROS |
| Date | 10-15-97 |
| Scale | As Noted |

Project Number
95003

ENGINEER OF RECORD
 Anthony D. Pedonesi, P.E.
 Registration No. 34653

SHEET NO.
2 OF 3



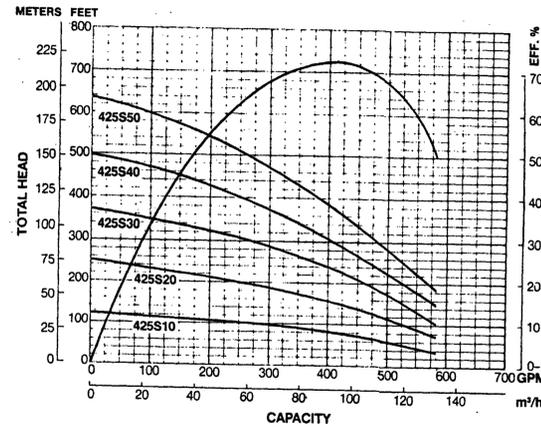
HYDRO-PNEUMATIC TANK
CONSTRUCTION: The hydro-pneumatic tank shall be manufactured using a minimum wall thickness of 3/8" non steel plate. The heads and plates shall be 3/8" thick with a minimum 1/2" straight flange. The heads and plates shall be connected by shielded electric arc welding with welds of adequate sections for the connection. The welds shall be continuous inside and outside for each weld seam. Welding shall be in compliance with A.S.C. and A.W.S. Specifications.
CAPACITY AND WORKING PRESSURE: The hydro-pneumatic tank shall have a working pressure of 100 P.S.I. and a test pressure of 150 P.S.I.. The tank shall provide a minimum capacity of 10,000 gallons.
PAINT COATING: Interior and exterior shall be cleaned of dirt, grease, oil, mill scale and weld spatter and shall be sandblasted to a commercial finish. The exterior shall be painted with a dry film thickness of 12 mils. The interior shall be painted with a dry film thickness of 12 mils. The exterior shall receive one primer coat and two finish coats. The interior shall receive two finish coats of POLYAMIDE EPOXY and each applied to a dry film thickness of two mils for a total thickness of 4 mils. The exterior shall be painted with a dry film thickness of 12 mils. The interior shall be painted with a dry film thickness of 12 mils.
POTABLE WATER SUPPLY WELLS OR TEST WELLS THAT MAY LATER BE USED FOR POTABLE WATER SUPPLY:
WATER HEADS:
 Number, Location, Construction, Clearing, Drilling, Sampling and Abandonment. In addition to the requirements set forth in CHAPTER 17-21, Florida Administrative Code, Part II Minimum Water Well Construction Standards. The requirements of this subsection apply to potable water supply wells or test wells that may later be used for potable water supply.
 a) Number - Number of wells required - A minimum of two potable water supply wells shall be provided for all community water systems serving 350 or more persons.
 b) Location - Well sites shall not be located on ground subject to flooding and as far as is practical when the direction of ground water slope or movement is known. Wells shall be located on the upstream side of potential sources of contamination a minimum of 500' or as practically set by all Governmental Agencies. For level areas, well sited or puddled earth shall be placed around the well no less than 100' from the concrete structure. The apron must be a minimum of 6" x 6" x 6" thick. Wells shall be located a minimum of 500' from any potential source of contamination unless otherwise justified by natural (impermeable geological strata etc.) or adequate treatment barriers.
 c) Well Construction:
 1) Access - Every well shall be accessible for such attention as may be necessary.
 2) Casing materials and grouting requirements:
 a. Casing and pipe other than as specified in CHAPTER 17-21, 10(1) must be approved by the DEPARTMENT prior to installation and use.
 b. Where unannular casing is utilized, the casing shall be overlapped by not less than 20" where increases or reductions occur in casing size. Not less than two centralized spacers shall be used in the overlapped sections and the annular space existing in the overlapped sections shall be completely sealed in cement grout by an approved method.
 c. Casing for wells which obtain their water from a rock layer or other such consolidated formations, shall, as a minimum, be seated firmly into it and grouted with cement grout by an approved method.
 d. For wells constructed with driven casings, the minimum acceptable seat shall be accomplished by undercutting or underdrilling the casing five feet of the hole before seating the casing. A minimum of one foot of such enlarged hole must be into the consolidated formation to which the casing will be seated. The entire enlarged portion shall be filled with cement grout and then the casing driven through the grout to refusal. No other minimum seal shall be acceptable unless approved in advance by the WATER MANAGEMENT DISTRICT or the DEPARTMENT. Any part of a well which is constructed by setting the casing in a previously constructed borehole which is of larger diameter than the outside of the casing shall be sealed by filling the annular space, from top to bottom, with cement grout. Grouting methods and minimum standards shall at all times conform to those stated in CHAPTER 17-21. The upper twenty feet of casing shall be sealed with not less than a two inch thickness of cement grout. If an outer casing is used in the case of casing materials to hold open the annular space, while accomplishing this upper grout seal, it shall be grouted during or immediately after placement of the grout. The top of the casing shall be so constructed as to exclude any surface water.
 f. Prior to replacing the pumps at the wells, wells shall be protected at all times by watertight seals or welded flange so as to prevent entrance of contaminating material.

POTABLE WATER SUPPLY WELLS OR TEST WELLS THAT MAY LATER BE USED FOR POTABLE WATER SUPPLY:

WATER HEADS:

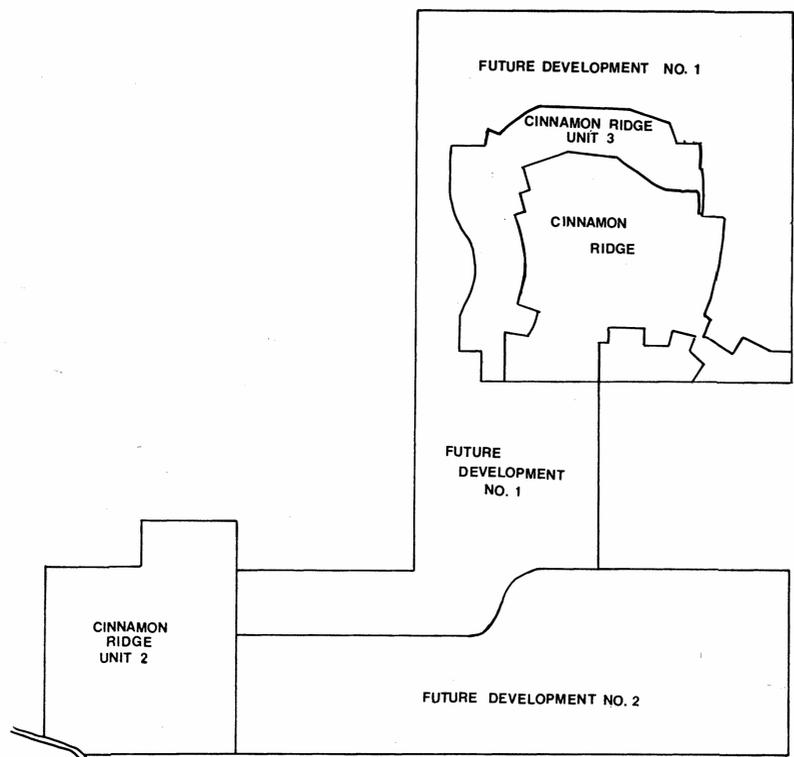
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HYDRO-TANK DATA

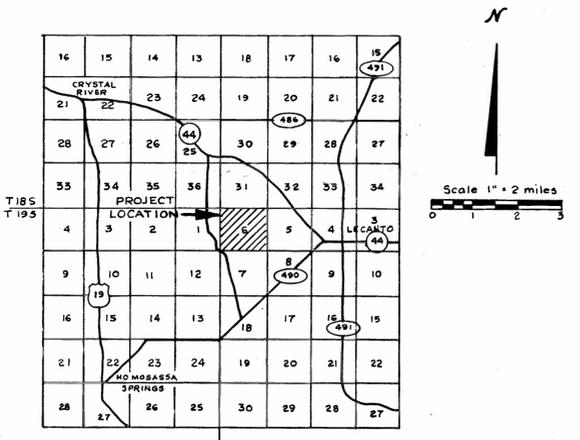


GOULDS PUMP CAPACITY

NTS



SERVICE DISTRICT



LOCATION MAP

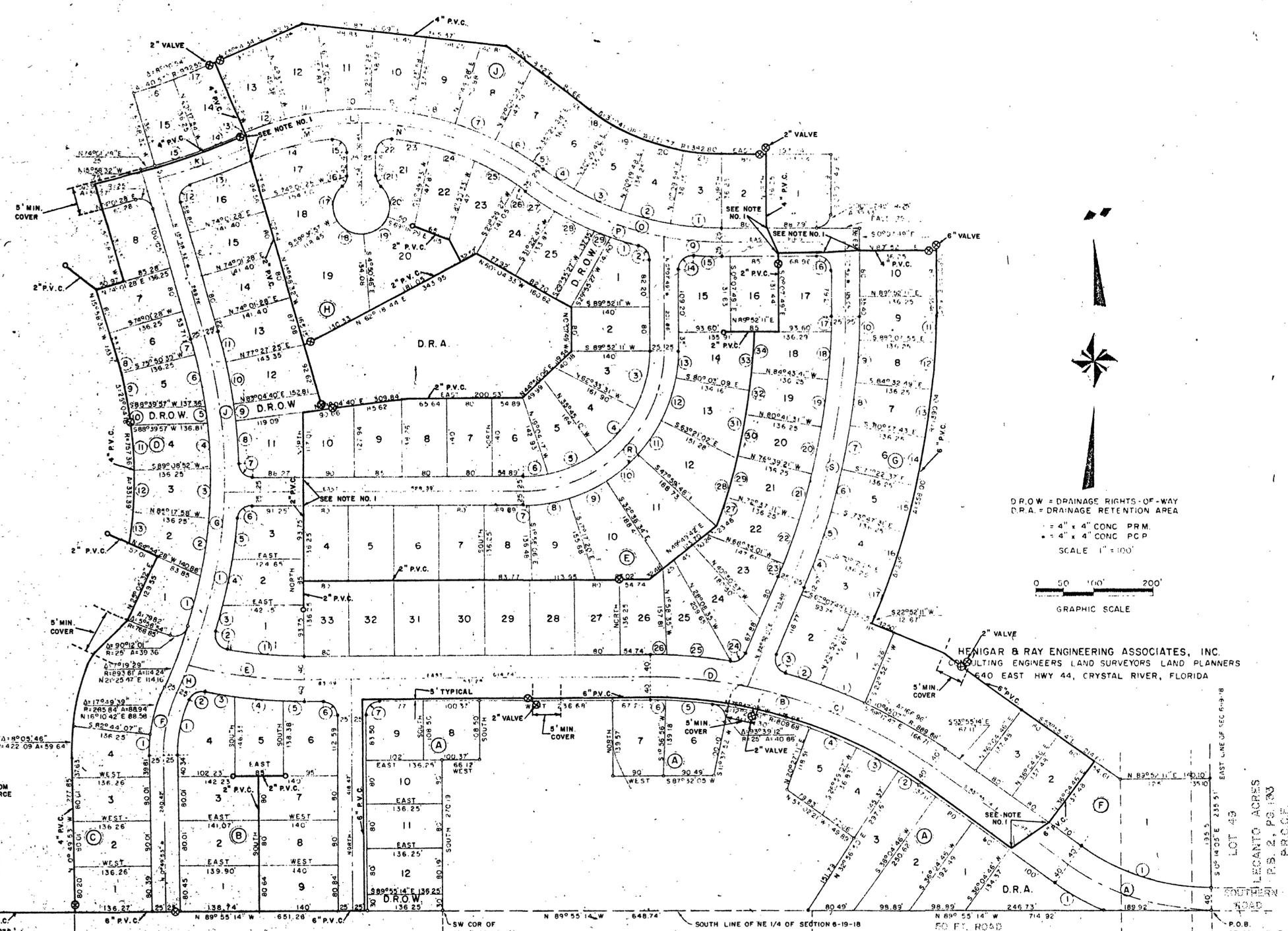
**Cinnamon Ridge
Water Utility System**

for

**Cinnamon Ridge Utilities, Inc.
Citrus County, Florida**

**Engineering-Surveying
Unlimited, Inc.
221 W. Main Street
Inverness Florida 32650
(904) 637-4111**

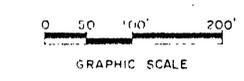
Drawings included within were prepared by Henigar & Ray Eng. Assoc., Inc.



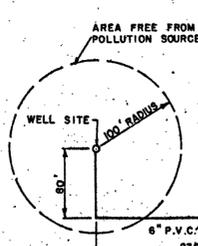
- NOTES:
1. JOIN EXISTING 6" P.V.C. WATER MAIN PREVIOUSLY INSTALLED AT STREET CROSSINGS CALLED OUT ON THE PLANS.
 2. MINIMUM COVER SHALL BE 30" EXCEPT WHERE 5' COVER IS CALLED OUT ON THE PLANS.
 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ACCOMPANYING SPECIFICATIONS.
 4. SERVICE TAPS NOT INCLUDED IN WATER MAIN CONSTRUCTION CONTRACT. THEY WILL BE THE RESPONSIBILITY OF THE LOT OWNERS AT TIME OF OCCUPANCY.
 5. 7.5' UTILITY EASEMENTS ARE PROVIDED ON EACH LOT AT REAR AND SIDE LOT LINES.

- LEGEND:
- ⊗ DENOTES GATE VALVE & BOX
 - ⊙ DENOTES BLOW-OFF ASSEMBLY

D.R.W. = DRAINAGE RIGHTS-OF-WAY
 D.R.A. = DRAINAGE RETENTION AREA
 - 4" x 4" CONC. PRM.
 - 4" x 4" CONC. PCP
 SCALE 1" = 100'

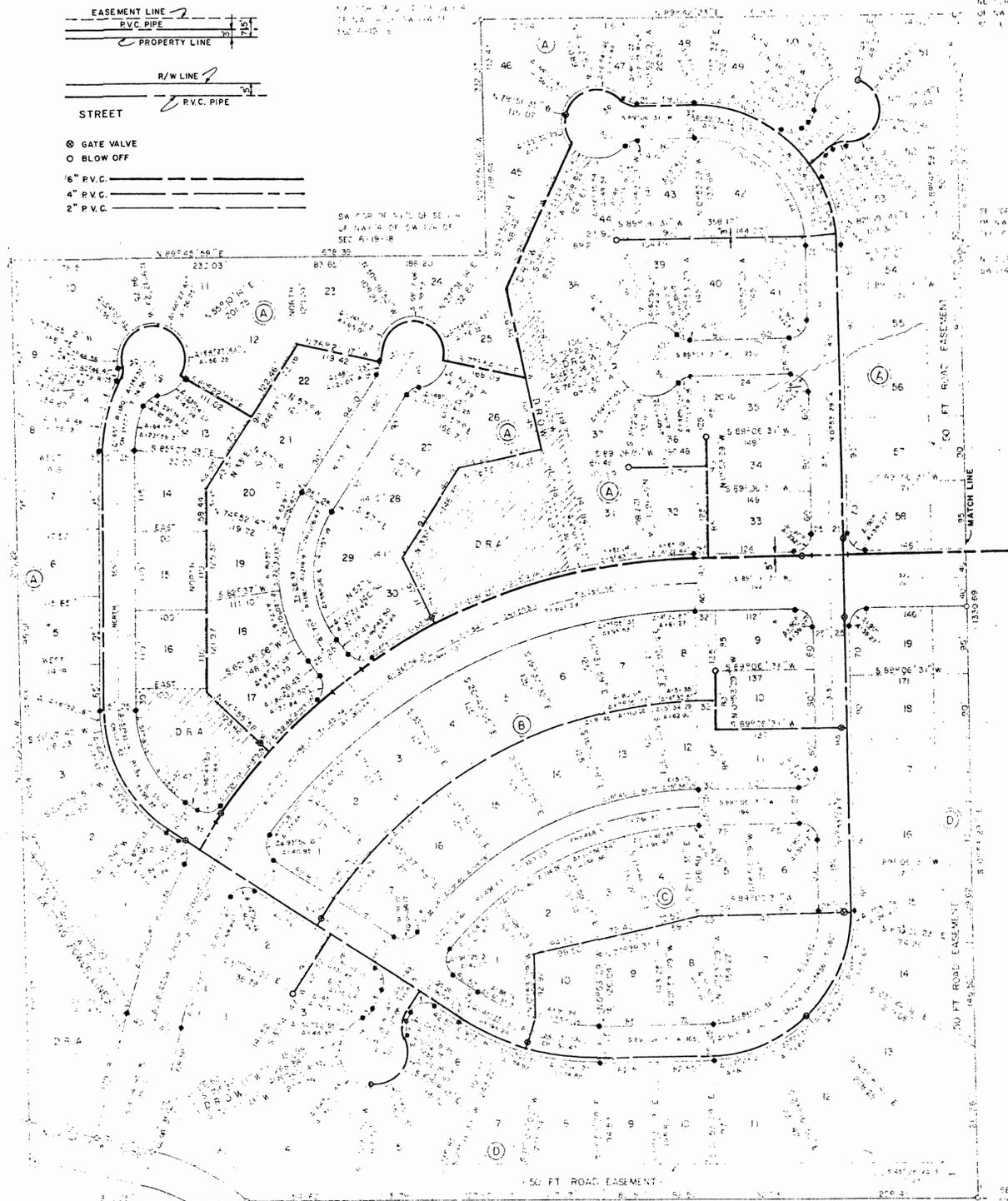
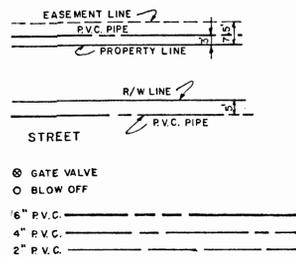


HENIGAR & RAY ENGINEERING ASSOCIATES, INC.
 CONSULTING ENGINEERS - LAND SURVEYORS - LAND PLANNERS
 640 EAST HWY 44, CRYSTAL RIVER, FLORIDA

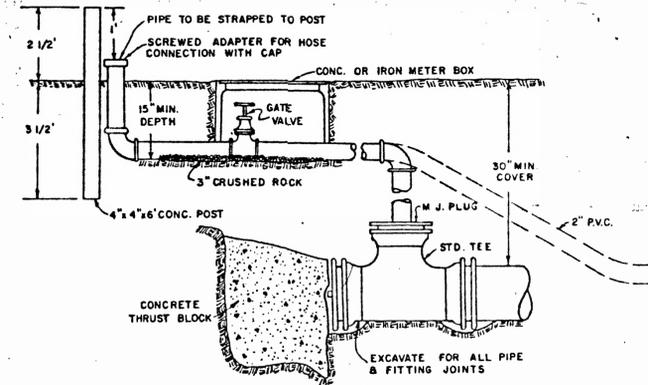


| | |
|--|----------------|
| WATER DISTRIBUTION SYSTEM FOR | |
| PHASE ONE | |
| CINNAMON RIDGE | |
| A SUBDIVISION IN THE NE 1/4 OF SECTION 6, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA. | |
| HENIGAR & RAY ENGINEERING ASSOCIATES, INC. CONSULTING ENGINEERS - LAND SURVEYORS - LAND PLANNERS 640 EAST HWY 44, CRYSTAL RIVER, FLORIDA | |
| DRAWN: K.A.R. | SCALE: |
| APPROVED: | 1" = 100' |
| DATE: 1-15-82 | PB. 1A PG. 489 |

LEGEND

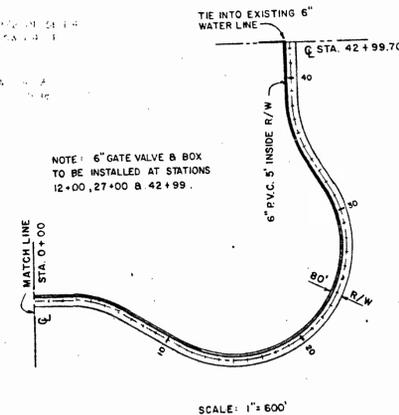


SCALE: 1" = 100'



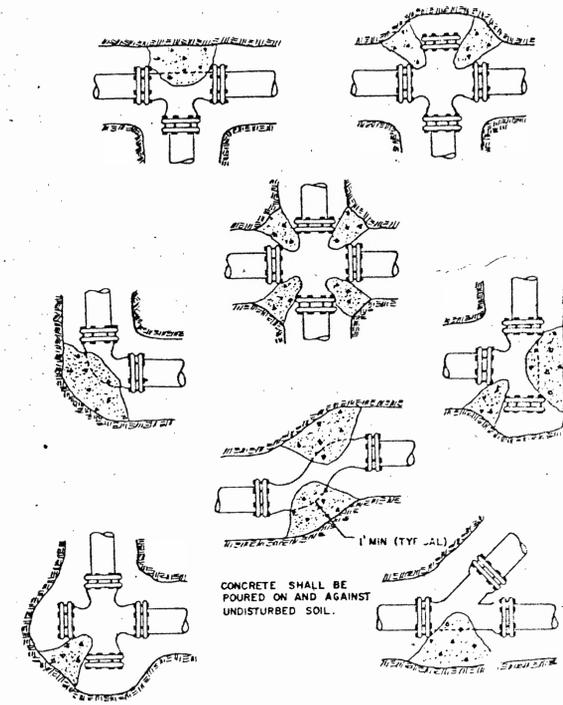
DEAD END BLOW OFF ASSEMBLY

NOTE: FOR 2" PIPE AND SMALLER STRAIGHT IN CONNECTION IS ACCEPTABLE.



NOTE: 6" GATE VALVE & BOX TO BE INSTALLED AT STATIONS 12+00, 27+00 & 42+99.

SCALE: 1" = 600'



THRUST BLOCKS

CONCRETE SHALL BE POURED ON AND AGAINST UNDISTURBED SOIL.

REVISED: 11-11-83 AS-BUILT
REVISED: 5-27-83 NEW DEAD END BLOW OFF DETAIL

WATER DISTRIBUTION SYSTEM

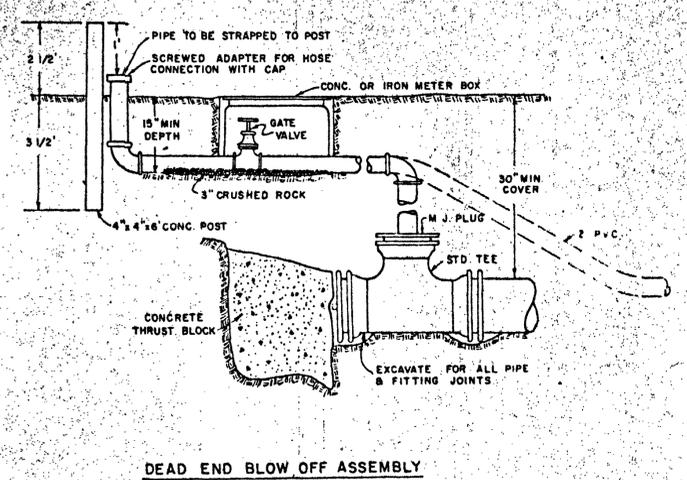
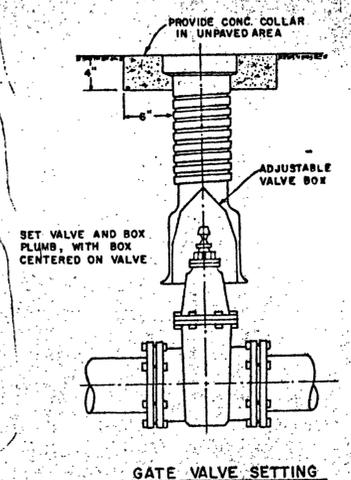
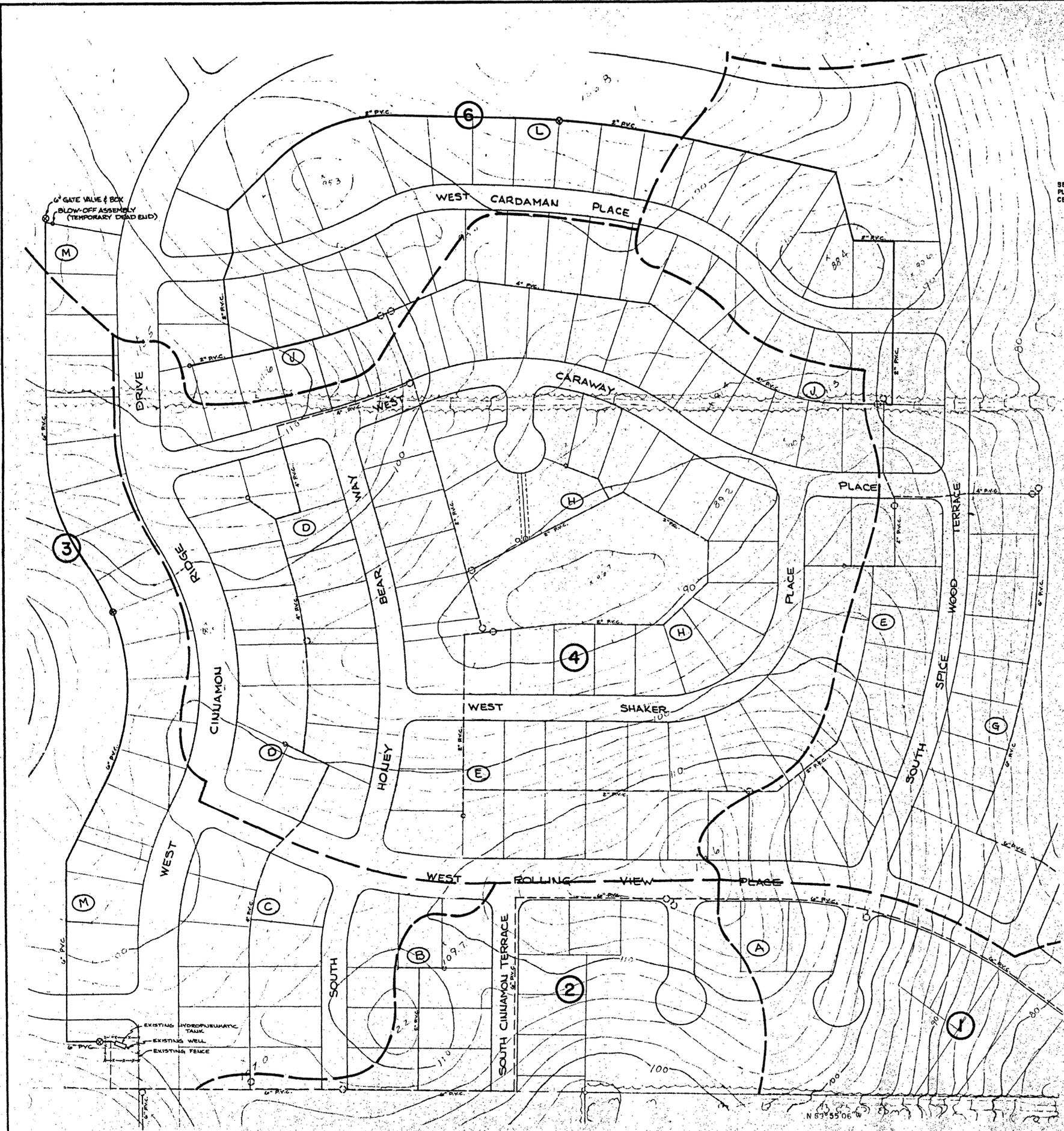
CINNAMON RIDGE-UNIT 2

THE SW 1/4 OF THE SW 1/4 AND THE S 1/2 OF THE SE 1/4 OF THE NW 1/4 OF THE SW 1/4, ALL IN SECTION 6, TOWNSHIP 15 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA.

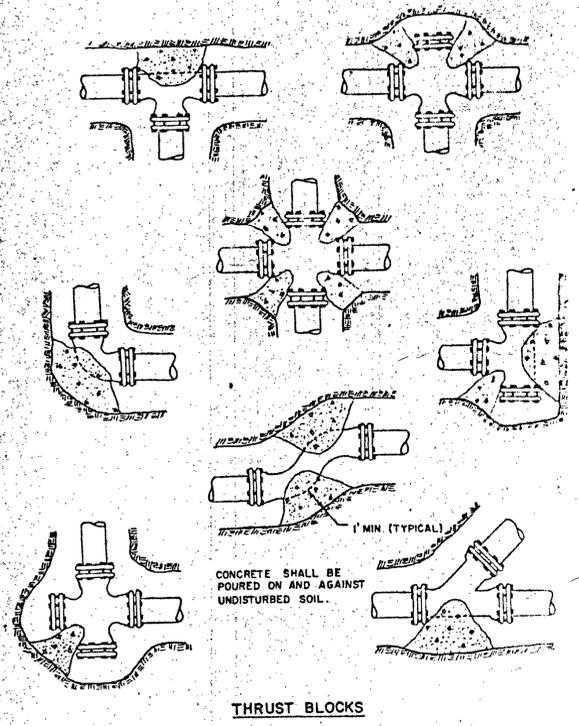
HENIGAR & RAY ENGINEERS & ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
640 EAST HWY. 44, CRYSTAL RIVER, FLORIDA

DRAWN: BFG
APPROVED: [Signature]
DATE: 1-17-83

W. BRUCE WHITE, P.E.
FLA. REG. NO. 30185



NOTE: FOR 2" PIPE AND SMALLER STRAIGHT IN CONNECTION IS ACCEPTABLE



LEGEND

- EXISTING WATER MAIN ———
- PROPOSED WATER MAIN - - - - -
- EXISTING GATE VALVE & BOX ○
- EXISTING BLOW-OFF ASSEMBLY ●
- PROPOSED GATE VALVE & BOX ⊙
- PROPOSED BLOW-OFF ASSEMBLY ⊙

NOTE: ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE CITRUS COUNTY PUBLIC WORKS MANUAL, PART B, SECTION XVI.

REVISED: 11-11-83 AS-BUILT

W. BRUCE WILSON
FLA. REG. NO. 12345

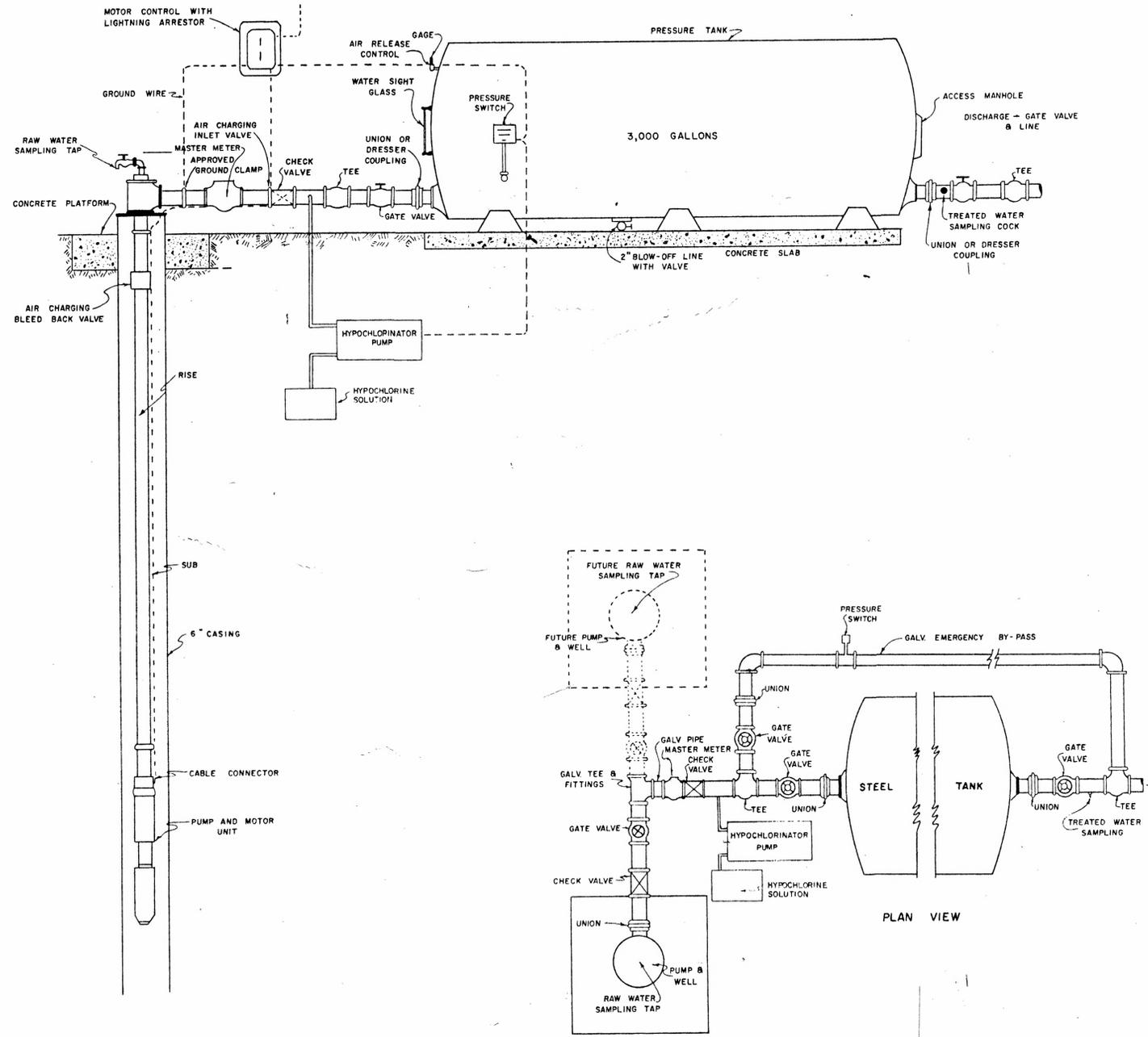
WATER DISTRIBUTION SYSTEM

CINNAMON TERRACE

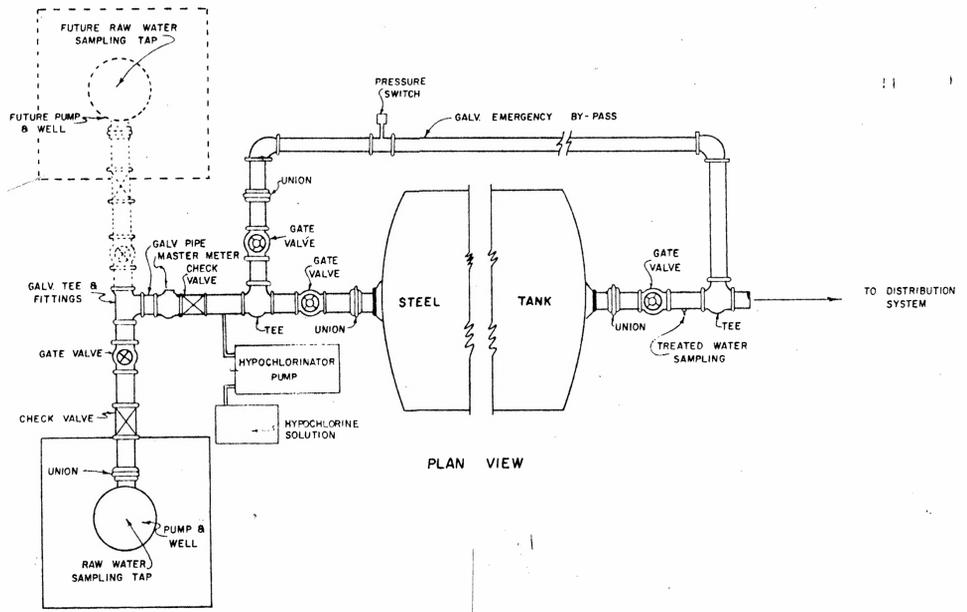
A SUBDIVISION OF A PORTION OF
6, TOWNSHIP 19 SOUTH, RANGE 22 WEST, 30 EAST

HENIGAR & RAY ENGINEERS
CONSULTING ENGINEERS • L.A. 100
640 EAST HWY. 44

DRAWN: C.M.W. SCALE: _____
APPROVED: W.B.W.
DATE: MAY 31, 1983



- SPECIFICATIONS
1. PUMP SHALL BE CAPABLE OF PROVIDING 220 GALLONS PER MINUTE AT A DISCHARGE PRESSURE OF 70 P.S.I. USE STA-RITE MODEL 325NG OR EQUAL. (20 H.P.)
 2. PNEUMATIC TANK SHALL BE CONSTRUCTED AND TESTED FOR A MAXIMUM OPERATING PRESSURE OF 150 P.S.I.
 3. HYPOCHLORINATOR SHALL BE CAPABLE OF PROVIDING 1.0 P.P.M. CHLORINE RESIDUAL FOR A TOTAL FLOW OF 209,000 GALLONS PER DAY. USE CHEM-TECH MODEL 215 OR EQUAL.
 4. ALL ELECTRICAL CONTROL EQUIPMENT, GAUGES, SWITCHES, VALVES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 5. ALL ELECTRICAL CONTROL AND CHLORINATION EQUIPMENT SHALL BE PROTECTED BY SUITABLE HOUSING OR A PROTECTIVE FENCE ENCLOSURE.
 6. GAS CHLORINATION EQUIPMENT IF USED, SHALL BE INSTALLED IN A SEPARATE ENCLOSURE OR ENCLOSED BUILDING AREA WITH SEPARATE EXTERIOR DOORS AND EXHAUSTING SYSTEM.



REVISED 3-4-82

| | |
|---|--------|
| WELL HEAD DETAIL | |
| CINNAMON RIDGE | |
| A SUBDIVISION IN THE NE 1/4 OF SECTION 6, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA | |
| HENIGAR & RAY ENGINEERING & ARCHITECTS REGISTERED ENGINEERS & ARCHITECTS 640 EAST HWY. 44, CRYSTAL RIVER, FLORIDA | |
| DRAWN: K.A.R. | SCALE: |
| APPROVED: E.B. | P.B. |
| DATE: 1-15-82 | P.B. |