BOARD OF COUNTY COMMISSIONERS

GULF COUNTY, FLORIDA

INFORMATION SEPTEMBER 9, 2014 PAGE NO.

BCC CORRESPONDENCE:

A) Notices:
Public Hearing – (Budget Hearing * September 10, 2014) . . . 1
RFQ #1314-30 – (Engineering Services * 2014 Road Paving Projects) . 2-3

CORRESPONDENCE TO BCC:

B) Garlick Environmental Associates (Application * Wetlands Fill C.R. 386) . 4-78

C) FL Public Service Commission (Consummating Order) . . . 79-80

PUBLIC HEARING

The Gulf County Board of County Commissioners will hold a Public Hearing on Wednesday, September 10, 2014 at 5:01 p.m., E.T. in their meeting room in the Robert M. Moore Administration Building at the Gulf County Courthouse Complex in Port St. Joe, Florida to discuss the tentative budget for Fiscal Year 2014-2015. The public is encouraged to attend.

WARD MCDANIEL
CHAIRMAN

GULF COUNTY BOARD OF COUNTY COMMISSIONERS
REQUEST FOR QUALIFICATIONS # 1314-30

The Gulf County Board of County Commissioners is seeking professional consultant services for Engineering and Construction Engineering Inspections Services for the 2014 Small County road paving projects. Consideration will be given to only those firms that are qualified pursuant to law and that have been prequalified by the Florida Department of Transportation (FDOT) to perform the indicated types of work.

Work Types: 3.1, 3.2, 7.1, 10.1
Response Deadline: Friday, September 19, 2014 at 4:00 P.M. ET
Opening Date: Monday, September 22, 2014 at 10:00 A.M. ET

FEDERAL DEBARMENT: By submitting a Statement of Qualifications, the consultant certifies that no principal (which includes officers, directors, or executives) is presently suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation on this transaction by any Federal Department or Agency.

SELECTION PROCEDURE: This project is covered by the selection process detailed in the Rule Chapter 14-75, Florida Administrative Code. Selection will be made directly from Letters of Response for this project. After ranking of the consultants, the contract fee will be negotiated in accordance with Section 287.055, Florida Statutes.
Note: The final selection date and time is provided in this advertisement. Any other meetings will be noticed on the County's Web Site at www.gulfcounty-fl.gov. Changes to meeting dates and times will be updated on the County's Web Site. In order to ensure a fair, competitive, and open process, once a project is advertised for Statement of Qualifications, all communications between interested firms and the County must be directed to Ms. Kari Summers, Deputy Grant Coordinator at (850) 229-6144 or ksummers@gulfcounty-fl.gov.

RESPONSE PROCEDURE: Qualified consultants are encouraged to submit the original and three (3) copies of the letter of response to the Gulf County Clerk's Office, 1000 Cecil G. Costin, Sr., Blvd., Room 149 Port St. Joe, FL 32456 by the Response Deadline. Please place **YOUR COMPANY NAME**, **SEALED BID**, and the **RFQ NUMBER** on the outside of your envelope.

Selection will be made directly from Statement of Qualifications. Statement of Qualifications are limited to ten pages for this project.

Final Selection Evaluation Criteria:

- Management and staffing capability, qualifications (10 points)
- Project Specific Knowledge (10 points)
- Familiarity with local needs, conditions (25 points)
- SCOP, SCRAP, CIGP experience (25 points)
- Location of proposing firm(s) (10 points)

Letters of Response should at a minimum, include the following information:

a) Project Name: **2014 Small County Road Paving Projects**
b) Consultant's name and address
c) Proposed responsible office for consultant
d) Contact person, phone number and Internet Email Address
e) Statement regarding previous experience of consultant in advertised type of work
f) Proposed key personnel and their proposed roles (do not include resumes)
g) Sub-consultant(s) that may be used for the project
h) The outside of the envelope should be marked with **"RFQ #1314-30 Sealed Proposal"**

The Gulf County Board of County Commissioners reserves the right to reject any and all proposals deemed in the best interest of the County.

BOARD OF COUNTY COMMISSIONERS
GULF COUNTY, FLORIDA
/s/ WARD MCDANIEL, CHAIRMAN

Advertise: September 4, 2014
Ad #2014-81
Invoice: Gulf Co BOCC
Ad Size: Legals – The Star

4

GARLICK ENVIRONMENTAL ASSOCIATES, INC.

SPECIALIZING IN: REGULATORY PERMITS • WETLANDS/UPLAND JURISDICTIONAL DELINEATIONS • SUBMERGED LAND LEASES • ECOLOGICAL INVENTORY ASSESSMENTS • CONSERVATION AND OTHER EASEMENTS • EXPERT WITNESS AND ENVIRONMENTAL LITIGATION SERVICES • MITIGATION • CULTURAL RESOURCE ANALYSIS • CREATIVE MARINA, DOCK, AND SUBDIVISION DESIGN

FILED FOR RECORD
REBECCA L. NORRIS
CLERK OF CIRCUIT COURT
GULF COUNTY, FLORIDA
14 SEP -3 PM 12: 16

LETTER OF TRANSMITTAL

DATE: August 14, 2014

TO: Ms Linda Hamilton
FDEP/NW FL District Office
470 Harrison Avenue
Panama City, FL 32401

Mr. Derek Adkins
COE/Panama City Field Office
1002 West 23rd Street
Suite 350
Panama City, FL 32405

RE: Wetlands Fill
Gulf County County/Highway 386
DEP File No. 23-0280120-001-DF
GEA File No. 14-033/Castaway Camp Ground

Attached is an application impacting 2.55 acres of FDEP jurisdictional wetlands for the development of a new recreational vehicle park. The proposed project is located in Section 30, Township 6 South, Range 11 West, in Gulf County, St George Island, FL, adjacent to Highway 386. The following information should aid you in your review:

1) Attached is a copy of the previous permit issued by the FDEP on December 18, 2008 for filling the 2.55 acre parcel. This permit expired on December 18, 2013 and the placement of fill allowed by the permit was not completed. We are requesting the renewal of the expired permit, and a copy of the permit is attached. The previous permit request was to construct a commercial/residential development. However; this request is for the construction of a recreational vehicle park to be known as Castaway Camp Ground.

2) The proposed development features 35 RV lots, each with a gravel parking pad, gravel patio area and a utility pedestal with individual electrical, water, and sewer service. The development will also include a stormwater pond, check in building and office and four parking spaces (including one handicapped accessible parking stall). Please see the attached Surface Water Management Data Sheet for detailed areas.

3) Water and Sewer service is provided by Mexico Beach. The culvert crossing entrance with the placement of the culverts have been installed during the time of the issuance of the first permit for this project.

GARLICK ENVIRONMENTAL ASSOCIATES, INC. POST OFFICE. BOX 385 APALACHICOLA, FL 32329-0385
PHONE: (850) 653-8899 FAX: (850) 653-9656
BRANCH OFFICES IN PANAMA CITY AND TALLAHASSEE

INFORMATION 4
DATE 9/9/14 LL

4) All staging areas will be located in uplands. The development of the site will be accomplished using traditional mechanical equipment such as bulldozers, backhoes, etc. Fill material will consists of clean, commercially obtained fill sand, dirt, and/or clay. Prior to clearing activities, the edge of the wetlands to be remain will be staked and silt fencing will be installed. Erosion control devices will be maintained in good working order until such time that permanent measures are in place and stable.

5) Best management practices will be applied at all times during construction. The remaining wetlands onsite will be preserved and protected pursuant to the terms of the Conservation Easement previously entered into.

6) Attached is an original and 2 copies of the complete application package along with a check made payable to FDEP in the amount of $310.00 for the permit processing fee.

If you have any questions or need any additional assistance, please do not hesitate to call me at the Apalachicola office at (805) 653-8899 or dan@garlickenv.com / clay@garlickenv.com.

Sincerely,

Clayton Studstill, Esq.,
Operations Manager
Garlick Environmental Associates, Inc.

Attachments

Cc: Cinnamon Hill, LLC
c/o Thad Williams

US Army Corps of Engineers.

NOTE: The information requested in Sections A through F of this application package is not intended to be all-inclusive. Additional information may be requested by the reviewing agency in order to complete your application.

FOR AGENCY USE ONLY

DEP/WMD Application #	
Date Application Received	Fee Required
Proposed Project Lat.	Fee Received $
Proposed Project Long.	Fee Receipt #

SECTION A — GENERAL INFORMATION

PART 1: GENERAL INFORMATION

A. **Type of permit** (check one). See Attachment 3 for thresholds and descriptions.

☒ Individual — Construction and Operation (see Rule 62-346.050, F.A.C., and section 3 of Applicant's Handbook Volume I)

☐ Individual — Conceptual Approval (see Rule 62-346.050, F.A.C., and section 3 of Applicant's Handbook Volume I)

NOTE: Do not use this form if you are submitting a notice to use a Notice General Permit under Chapter 62-341, F.A.C. Use Form 62-346.900(2) (see Rule 62-346.050, F.A.C., and section 3 of Applicant's Handbook Volume I)

B. **Type of activity** for which you are applying (check at least one; if a prior permit #, please circle either "Department" or "NWFWMD" as the prior issuing entity for the appropriate activity type, below):

☒ Construction and operation of a new system

☐ Operation of an existing system. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Alteration of an existing system. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Maintenance or repair of a system previously permitted by Department or NWFWMD. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Abandonment of a system. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Construction of additional phases of a system. Please provide the existing Department or NWFWMD permit #, if known: _____

☐ Removal of a system. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Retrofit of a system. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Modification of a permit. Please provide existing Department or NWFWMD permit #, if known: _____

☐ Major — see subsection 62-346.095(5) and paragraph 62-346.100(1)(a), F.A.C.

☐ Minor — see subsection 62-346.100(1)(d), F.A.C.

☐ Extension of permit duration — see subsection 62-346.100(1)(d) and Rule 62-346.110, F.A.C.

☐ Transfer — see subsection 62-346.100(1)(d) and Rule 62-346.130, F.A.C.

☐ Deadhead Logging.

C. **Does the activity involve any work in wetlands or other surface waters ?** (see Chapter 62-340 , F.A.C.)

☒ Yes ☐ No If "yes," please provide, as applicable:

Total area of dredging, filling, construction, alteration, or removal in, on, or over wetlands or other surface waters? 111,242.3 square feet; 2.55 acres

Total volume of material to be dredged: _____cubic yards

Number of new boat slips proposed: _____ wet slips; (also, if applicable: _____ new dry slips in uplands)

Number of existing boat slips to be altered: _____ wet slips

PART 2: APPLICANT AND ASSOCIATED PARTIES INFORMATION	
A. APPLICANT (ENTITY TO RECEIVE PERMIT)	
Name: Cinnamon Hill, LLC c/o Thad Williams	
Title and Company: Managing Member	
Address: Post Office Box 129	
City, State, Zip: Port St Joe, FL 32456	
Home Telephone:	Work Telephone: 850-227-8848
Cell Phone: N/A	Fax: N/A
E-mail Address :	
B. CO-APPLICANT	
Name: N/A	
Title and Company: N/A	
Address: N/A	
City, State, Zip: N/A	
Home Telephone: N/A	Work Telephone: N/A
Cell Phone: N/A	Fax: N/A
E-mail Address: N/A	
C. OPERATION AND MAINTENANCE ENTITY	
Name: N/A	
Title and Company: N/A	
Address: N/A	
City, State, Zip: N/A	
Home Telephone: N/A	Work Telephone: N/A
Cell Phone: N/A	Fax: N/A
E-mail Address : N/A	
D. LAND OWNER(S) ☐ **CHECK HERE IF LAND OWNER IS ALSO A CO-APPLICANT**	
Name: Cinnamon Hill, LLC c/o Thad Williams	
Title and Company: Managing Member	
Address: Post Office Box 129	
City, State, Zip: Port St Joe, FL 32456	
Home Telephone:	Work Telephone: 850-227-8848
Cell Phone: N/A	Fax: N/A
E-mail Address :	
E. CONSULTANT (IF DIFFERENT FROM AGENT)	
Name: N/A	
Title and Company: N/A	
Address: N/A	
City, State, Zip: N/A	
Home Telephone: N/A	Work Telephone: N/A
Cell Phone: N/A	Fax: N/A
E-mail Address : N/A	

F. AGENT AUTHORIZED TO SECURE PERMIT	
Name: Clayton B. Studstill	
Title and Company: Operations Manager / Garlick Environmental Associates, Inc.	
Address: Post Office Box 385	
City, State, Zip: Apalachicola, FL 32329	
Home Telephone: N/A	Work Telephone: 850-653-8899
Cell Phone: 850-323-0792	Fax: 850-653-9656
E-mail Address : clay@garlickenv.com	

PART 3: PROJECT SPECIFIC INFORMATION

A. Name of project, including phase if applicable: _____

B. Is this application for part of a multi-phase project? ☐ Yes ☐ No

Note: If you answered "yes" to question B, please provide permit numbers for other authorized phases below:

Agency	Date	No.\Application Type
N/A	_____	_____
N/A	_____	_____
N/A	_____	_____
N/A	_____	_____
N/A	_____	_____

C. Total area owned or controlled by the applicant contiguous to the project: 0.40 acres

D. Project area or phase: N/A acres

E. Impervious area excluding wetlands and other surface waters: N/A acres

F. Volume of water the system is capable of impounding: N/A acre feet

PART 4: PROJECT LOCATION

Street Address Road or other location: Highway 386
[Note: If utilities or road or ditch maintenance projects, provide a starting and ending point using street names and nearest house numbers or provide length of project in miles along named streets or highways.]

City, Zip Code, if applicable: Port St Joe, 32456

Tax Parcel Identification Number: 03552-000R
[If project is on one parcel of land. Number may be obtained from property tax bill or from the county property appraiser's office; if on multiple parcels, provide multiple Tax Parcel Identification Numbers]

County(ies) Gulf,_____,_____ Section 30 Township 6 SouthRange 11 West

Latitude (DDD.dddd) 29.929278 Longitude (DDD.dddd) 85.3875

Explain source for obtaining latitude and longitude: GOOGLE EARTH (i.e. U.S.G.S. Quadrangle Map)

Horizontal Datum (NAD 1927 or 1983) 1983 (Taken from Central Location)

PART 5: PROJECT DESCRIPTION

*Note: In this section, please describe in **general** terms the project and activity. Use additional pages if necessary.*

General explanation of work: See Attached Cover Letter

Treatment type proposed: N/A

Current site conditions and land uses: Vacant Parcel

Proposed Land Use: _____

Description of sediment and erosion Best Management Practices (BMPs) to be used: Turbidity Curtains will be deployed around the project site and will remain in place until project is completed and turbidity has returned to normal.

Names and classifications of all receiving waters (if available): N/A

PART 6: SITE PERMIT HISTORY

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives as well a brief summary of any meetings:

Name	Agency	Date	Location	Summary
N/A				
N/A				
N/A				
N/A				
N/A				

B. Please identify by number any MSSW/Wetland Resource/62-25 F.A.C./ACOE permits pending, issued or denied for projects at the location, and any related enforcement actions:

Agency	Date	No.\Application Type	Action Taken
FDEP	12-8-2008	23-0280120-001-DF	Approved
COE			
N/A			
N/A			
N/A			

C. **Please attach a copy of each permit issued for this project or explain why copies are not available.**
N/A

PART 7: APPLICANT AUTHORIZATIONS

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for authorization to conduct the activity identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a different operation and maintenance entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Clayton D. Stadstill of Garlick Environmental Associates, Inc
Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

Signature of Applicant/Agent — Date: 8-14-14

Operations Manager
(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Cinnamon Nile, LLC
Typed/Printed Name of Applicant — Signature of Applicant — Date: 8/14/2014

Managing Member
(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON WITH AUTHORITY TO AUTHORIZE ACCESS TO THE PROPERTY MUST ALSO COMPLETE THE FOLLOWING:

C. I certify that I [check one of the following]: -

☒ Possess sufficient real property interest in or control over the land upon which the activities described in this application are proposed.

Note:

Interest in real property is typically evidenced by an instrument such as: a warranty deed; lease (subject to the limitations below); easement; judgment of the court; certificate of title issued by a clerk of the court; OR condominium, homeowners, or similar association documents, which demonstrate that the person or entity has sufficient interest in or control over the property to authorize the proposed activities to be permitted. An entity's contract for sale and purchase shall not be considered to have sufficient real property interest or control over the land that is subject to the application, but such entity shall be allowed to submit an application under this chapter (see next check box). Entities with the power of eminent domain and condemnation authority are considered capable of demonstrating that they will have sufficient real property interest or control prior to construction. **Note—the above documents do NOT have to be submitted at this time**, but must be made available if requested by the Department. Persons requesting activities on state-owned submerged land must also submit satisfactory evidence of sufficient upland interest in accordance with paragraph 18-21.004(3)(b), F.A.C. (April 14, 2008).

entity's contract for sale and purchase shall not be considered to have sufficient real property interest or control over the land that is subject to the application, but such entity shall be allowed to submit an application under this chapter (see next check box). Entities with the power of eminent domain and condemnation authority are considered capable of demonstrating that they will have sufficient real property interest or control prior to construction. **Note—the above documents do NOT have to be submitted at this time,** but must be made available if requested by the Department. Persons requesting activities on state-owned submerged land must also submit satisfactory evidence of sufficient upland interest in accordance with paragraph 18-21.004(3)(b), F.A.C. (April 14, 2008).

When the real property interest is a lease, the application must either:

a. Include the fee simple owner as a co-applicant;

b. Provide documentation that a governmental entity agrees to accept the transfer of the permit, including completing construction in accordance with the permit if needed, and to operate and maintain the system upon its completion;

c. Provide documentation that the lease over the land and system extends for the expected life of the system; or

d. Provide documentation that the operation and maintenance of the system is will be turned over to a new lessee or the landowner upon revocation, termination, or expiration of the lease.

e. If the lease does not specifically designate an entity to complete construction of the system in accordance with the permit in the event the construction is not so completed by the lessee, or does not specify operation and maintenance requirements for the system, including designation of a specific operation and maintenance entity, a separate binding document also will be required establishing that the landowner is liable for completing construction or alteration of the system and for operating and maintaining the system in accordance with the permit.

Do NOT have sufficient real property interest, as described above (including such things as a contract for sale and purchase or an option agreement) in the land upon which the activities described in this application are proposed. Attached is:

1. A certification from the owner, lessee, or easement holder of such lands, acknowledging that they have knowledge of this application and voluntarily grant the permission, below, for staff of the Department of Environmental Protection, the Northwest Florida Water Management District, and the U.S. Army Corps of Engineers to access and conduct necessary site visits for the review, inspection, and sampling of the lands and waters on the property that are the subject of the application and, as a condition of any permit issued, that they agree to provide entry to such lands for staff to monitor and inspect permitted work; and

2. Documentation from the fee simple owner, easement holder, governmental entity, or other entity as provided for in section 12.3 of Applicant's Handbook Volume I, that they are liable for accepting responsibility for operation and maintenance of the system after completion of construction, and for and performing other terms and conditions as required by the permit.

Note: Neither 1. nor 2., directly above, must be submitted when the applicant is an entity with the power of eminent domain and condemnation authority, but such entity shall make appropriate arrangements to enable the above staff to access and inspect the property as needed to access and conduct necessary site visits for the review, inspection, and sampling of the lands and waters on the property that are the subject of the application. Such entity also agrees, as a condition of any permit issued, to provide entry to these lands for the above staff to monitor and inspect permitted work.

Thad E. Williams and/or Cannaiva Hill, LLC — Thad E. Williams — 8/14/2014

Typed/Printed Name of Applicant — Signature of Applicant — Date

Managing Member

(Corporate Title if applicable)

AUTHORIZATION BY OWNER, LESSEE, OR EASEMENT TITLE HOLDER TO ENTER AND INSPECT PROPERTY

I, as owner or easement holder of the land that is the subject of the application submitted by Cannanon Hill, LLC and/or Thad E. Williams

Name of Applicant

hereby acknowledge that I am aware of the application for an environmental resource permit/federal dredge and fill permit being submitted by the above named applicant, and authorize staff from the Department, NWFWMD, and U.S. Army Corps of Engineers, to access and conduct any site visit on the property necessary for the review, inspection, and sampling of the lands and waters that are the subject of the this application. Further, I agree, as a condition of any permit issued, to provide entry to such lands for such staff to monitor and inspect permitted work.

Cannanon Hill, LLC and/or Thad E. Williams	Thad E Williams	8/14/2014
Typed/Printed Name of Authorizing Entity	Signature of Authorizing Entity	Date

Managing Member
(Corporate Title if applicable)

(I may be contacted at 850.227-8848 to arrange access and inspection of the property)
PO Box 129
Port St. Joe, FL 32457

SECTION B

Environmental Resource Permit Notice of Receipt of Application

Note: This form does not need to be submitted for noticed general permits.

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments with the other required information. Please submit all information on 8 1/2" x 11" paper.

Project Name Castaway Camp Ground
County Gulf
Owner Cinnamon Hill, LLC, c/o Thad Williams
Applicant: Cinnamon Hill, LLC, c/o Thad Williams
Applicant's Address: Post Office Box 129 Port St Joe, FL 32456

1. Indicate the project boundaries on a USGS quadrangle map. Attach a location map showing the boundary of the proposed activity. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.
2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve: _____
3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use multiple sheets, if necessary. Use a scale sufficient to show the location and type of works.
4. Briefly describe the proposed project (such as "construct dock with boat shelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"): Fill 2.55 acres of Wetlands
5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be filled, excavated, or otherwise disturbed or impacted by the proposed activity:
   Filled 2.55 acres; Excavated N/A acres; Other impacts _ acres
6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary): N/A

FOR AGENCY USE ONLY

Application Name: _____
Application Number: _____
Office where the application can be inspected: _____

Note to Notice recipient: The information in this notice has been submitted by the applicant, and has not been verified by the agency. It may be incorrect, incomplete or may be subject to change.

US Army Corps of Engineers.

TABLE 1

Project Impact Summary

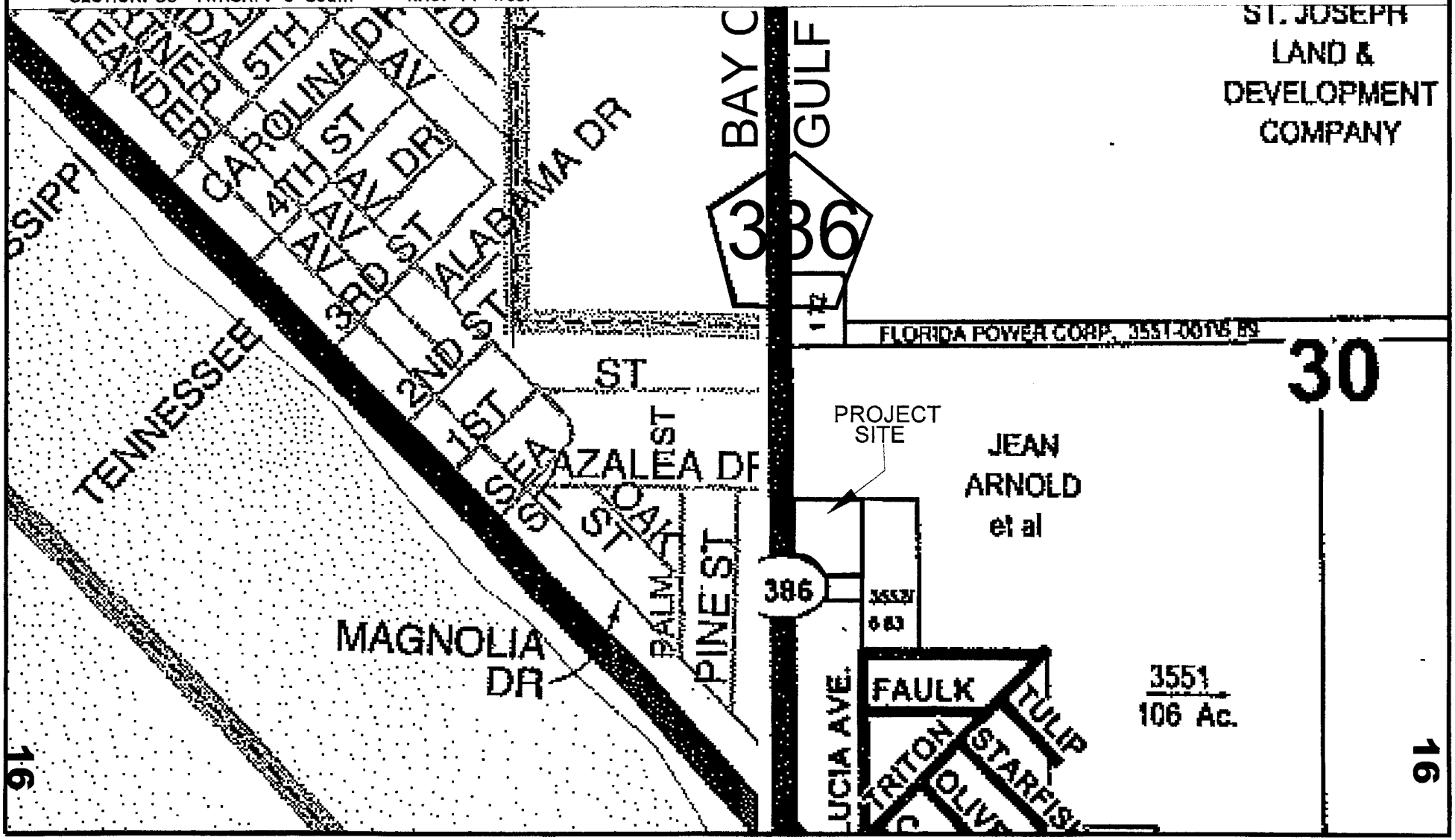
WL & SW ID	WL & SW TYPE	WL & SW SIZE (acres) ON SITE	WL & SW ACRES NOT IMPACTED	PERMANENT IMPACTS TO WL & SW		TEMPORARY IMPACTS TO WL & SW		MITIGATION ID
				IMPACT SIZE (acres)	IMPACT CODE	IMPACT SIZE (acres)	IMPACT CODE	
WL		2.55 Ac		2.55	F	N/A	N/A	

WL = Wetland; **SW** = Surface water; **ID** = Identification number, letter, etc.
Wetland Type: Use an established wetland classification system and, in the comments section below, indicate which classification system is being used.
Impact Code (Type): D = dredge; F = fill; H = change hydrology; S = shading; C = clearing; O = other. Indicate the final impact if more than one impact type is proposed in a given area. For example, show F only for an area that will first be demucked and then backfilled.
Note: Multiple entries per cell are not allowed, except in the "Mitigation ID" column. Any given acreage of wetland should be listed in one row only, such that the total of all rows equals the project total for a given category (column). For example, if Wetland No. 1 includes multiple wetland types and multiple impact codes are proposed in each type, then each proposed impact in each wetland type should be shown on a separate row, while the size of each wetland type found in Wetland No. 1 should be listed in only one row.
Comments: _____

PREPARED BY: GARLICK ENVIRONMENTAL ASSOCIATES, INC.
P. O. BOX 385, APALACHICOLA FLORIDA 32329-0385 (850) 653-8899 FAX (850) 653-9656 garlick@garlickenv.com
LB No. 7415

APPLICANT/CLIENT: Cinnamon Hill, LLC c/o Thad Williams
WATERBODY/CLASS: N/A
PURPOSE: Environmental Permitting
PROJECT LOCATION / USGS: Gulf County – Highway 386
LATITUDE: 29&&d 55' 45.4"
LONGITUDE: 85° 23' 15.0"
SECTION: 30 TWNSHP: 6 South RNG: 11 West

JOB: 14-033
DEP: 23-0280120-001-DF
COE:
OTHER:
DATE: August 14, 2014
SHEET: 1/1



Gulf County Pro

Mitch Bu

Sales In Area	Previous Parcel	Next Parcel	Field Definitions	Return to Main Search	Gulf Home

Owner and Parcel Information

Owner Name	CINNAMON HILL LLC	**Today's Date**	August 14, 2014
Mailing Address	P O BOX 70	**Parcel Number**	03552-000R
	OCHLOCKNEE, GA 31773	**Tax District**	St Joe Fire Zone (District 4)
Location Address	PHILLIPS DR	**2013 Millage Rates**	14.0638
Property Usage	VACANT (000000)	**Acreage**	6.142
Section Township Range	30-6S-11W	**Homestead**	N

Show Parcel Maps | Generate Owner List By Radius

Value Information

	2013 Certified Values	2014 Working Values
Building Value	$0	$0
Extra Feature Value	$0	$0
Land Value	$52,207	$52,207
Land Agricultural Value	$0	$0
Agricultural (Market) Value	$0	$0
Just (Market) Value*	$52,207	$52,207
Assessed Value	$52,207	$52,207
Exempt Value	$0	$0
Taxable Value	$52,207	$52,207
Maximum Save Our Homes Portability	$0	$0
AGL Amount		

"Just (Market) Value" description - This is the value established by the Property Appraiser for ad valorem purposes. This value does not represent anticipated selling price.

Tax Information

Legal Information

S 30 T 6 R 11 6.142 AC BEING PARCEL B, WILLIAMS MINORORB 484/753 QC FR MEXICO BEACHLAND AND DEVELOPMENT LLC REPLAT MAP16B

The legal description shown here may be condensed for assessment purposes. Exact description should be obtained from the recorded deed.

Building Information

No buildings associated with this parcel.

Extra Features Data

Description	Number of Items	Unit Length x Width x Height	Units	Effective Year Built

No records associated with this parcel.

Land Information

LAND USE	NUMBER OF UNITS	UNIT TYPE	Frontage	Depth
VACANT 5-10AC	6.142	AC	0	0

Property Information (qualified, unqualified, and multiple sales)

Sale Date	Sale Price	Instrument	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantor	Grantee
12-09-2009	$ 53,000	Quit Claim Deed	484	753	Unqualified	Vacant	MEXICO BEACH LAND AND DEVELOPMENT LLC	CINNAMON HILL LLC
07-17-2003	$ 275,000	Warranty Deed	314	482	Unqualified	Vacant	WATSON J C & BARBARA A (TRUSTEES)	MEXICO BEACH LAND & DEVELOPMENT LLC
09-14-2000	$ 100	TRUSTEE DEED	247	92	Unqualified	Vacant	WATSON	WATSON (TRUSTEES) THE WATSON LVG TRUST OF '00
11-10-1992	$ 13,500	Warranty Deed	156	593	Unqualified	Vacant	PROWS	WATSON

Sales In Area | **Previous Parcel** | **Next Parcel** | **Field Definitions** | **Return to Main Search** | **Gulf Home**

The Gulf County Property Appraiser's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The Senior Exemption Does Not Apply to All Taxing Authorities. Just (Market) Value is established by the Property Appraiser for ad valorem tax purposes. It does not represent anticipated selling price. Working values are subject to change. Website Updated: August 11, 2014

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Prepared by and return to:
Jeremy T.M. Novak, Esq.
Attorney at Law
Novak Law Offices, PLLC
209 7th Street,
Port St. Joe, FL 32456
850-229-4700
File Number: **9004-003**

Inst:200923006342 Date:12/28/2009 Time:3:57 PM
Doc Stamp-Deed:371.00
DC,Rebecca L. Norris,Gulf County B:484 P:753

[Space Above This Line For Recording Data]

Quit Claim Deed

This Quit Claim Deed made this **9th** day of **December, 2009** between **MEXICO BEACH LAND AND DEVELOPMENT, LLC, a Florida Limited Liability Company** whose is: Post Office Box 14256, Mexico Beach, Florida 32456, grantor, and **CINNAMON HILL, LLC, a Florida Limited Liability Company** whose address is: **Post Office Box 70, Ochlocknee, GA 31773**, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum **FIFTY THREE THOUSAND DOLLARS AND NO/100 ($53,000.00)** and other good and valuable consideration to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, does hereby remise, release, and quitclaim to the said grantee, and grantee's heirs and assigns forever, all the right, title, interest, claim and demand which grantor has in and to the following described land, situate, lying and being in **Gulf County, Florida** to-wit:

See Exhibit "A" attached hereto and by this reference is made a part hereof

TO Have and to Hold, the same together with all and singular the appurtenances thereto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of grantors, either in law or equity, for the use, benefit and profit of the said grantee forever.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness

Printed Name of Witness

Witness

Printed Name of Witness

MEXICO BEACH LAND AND DEVELOPMENT, LLC
a Florida Limited Liability Company

By: _____
LARRY G. TURNER, Managing Member

By: _____
THAD WILLIAMS, as Managing Member

CIRCUIT COURT SUUM CUIQUE GULF COUNTY, FLORIDA

STATE OF FLORIDA
COUNTY OF GULF

The foregoing instrument was acknowledged before me this 9th day of December, 2009 by LARRY G. TURNER AND THAD WILLIAMS, as Managing Member of MEXICO BEACH LAND AND DEVELOPMENT, LLC, a Florida Limited Liability Company who are personally known to me or have produced a valid driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: _____

My Commission Expires: _____

Exhibit "A"

Commence at a concrete monument marking the Southeast Corner of the Northwest Quarter of the Southwest Quarter of Section 30, Township 6 South, Range 11 West, Gulf County, Florida, said point also lying on the Northerly right of way line of Phillips Drive; thence run along said right of way line as follows; South 86 degrees 35 minutes 22 seconds West 665.73 feet to a rod and cap; thence leaving said right of way line run North 01 degrees 30 minutes47 seconds West 99.98 feet to the POINT OF BEGINNING, thence from said POINT OF BEGINNING run South 86 degrees 35 minutes 22 seconds West 325.10 feet to a rod and cap; thence North 01 degrees 08 minutes 00 seconds West 200.00 feet to a rod and cap; thence South 86 degrees 35 minutes 22 seconds West 240.00 feet to a rod and cap lying on the Easterly right of way line of said State Road Number 386; thence run along said right of way line North 01 degrees 08 minutes 00 seconds West367.31 feet to a rod and cap; thence leaving said right of way line run North 87 degrees 57 minutes 30 seconds East 561.05 feet to a rod and cap; thence South 01 degrees 30 minutes 47 seconds East 553.76 feet to the POINT OF BEGINNING.

Parcel Identification Number: 03552-000R

SOUTHEASTERN
CONSULTING ENGINEERS, INC.

CASTAWAY CAMP GROUND
PORT ST. JOE, GULF COUNTY, FLORIDA

Jack Husband III, P.E.
Florida Registration No. 69169
Date: June 12, 2014

125 Hwy 22 P.O. Box 141
Wewahitchka, Florida 32465
www.SoutheasternCE.com
850.639.3860

SOUTHEASTERN
CONSULTING ENGINEERS, INC.

CASTAWAY CAMP GROUND
PORT ST. JOE, GULF COUNTY, FLORIDA

PROJECT DESCRIPTION

Cinnamon Hill, LLC. is proposing to construct a new recreational vehicle park on one parcel located in Section 30 Township 6S Range 11W, Gulf County, Florida. The proposed development is more specifically located along CR 386 approximately 0.30 miles North of US Highway 98 (on the right). The parcel in which the development is proposed (Gulf County Property Appraiser parcel #03552-000R) is 111078 square feet or 2.55 acres.

The proposed development features 35 RV lots, each with a gravel parking pad, gravel patio area, and a utility pedestal with individual electrical, water, and sewer service. The development will also include a stormwater pond, check in building and office, and four parking spaces (including one handicapped accessible parking stall). Please the attached Surfacewater Management Data Sheet for detailed areas.

The stormwater design includes one Stormwater Management Facility (SWMF), which is intended to be located along the perimeter of the site. The site will consist of one basin to capture and treat the first .5" of runoff and attenuate for the following storm events:

- 25yr – 24hr
- 25yr – 1hr
- 25yr – 2hr
- 25yr – 4hr
- 2yr – 24hr

Please see the attached site plan. The SWMF, as designed, will compensate for the proposed impervious development. The top of bank elevation is 13.75' with sideslopes of 3:1 at the interior portion of the SWMF and 13.25 with sideslopes of 4:1 at the exterior portion of the SWMF and the bottom is 11.75'. The seasonal high ground water table in the area of the SWMF is at an elevation of 10.75'. The SWMF also consists of a 3' wide concrete weir set

125 HWY 22 P.O. BOX 141
WEWAHITCHKA, FLORIDA 32465
WWW.SOUTHEASTERNCE.COM
850.639.3860

SOUTHEASTERN
CONSULTING ENGINEERS, INC.

at an elevation of 12.75'. The site consists of soils that are in the hydrologic soil group A/D, however over two feet of clean sand fill will be brought in to raise the site, and the hydrologic soil group of the fill is assumed to be group B. The depth to the closest confining layer is greater than 6.56 feet.

125 HWY 22 P.O. BOX 141
WEWAHITCHKA, FLORIDA 32465
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850.639.3860

SOUTHEASTERN
CONSULTING ENGINEERS, INC.

PROJECT NAME **CASTAWAY CAMP GROUND** NUMBER OF BASINS **1**

LOCATION **PORT ST. JOE, FLORIDA** TWN **6S** RNG 11**W** S**30**

SURFACEWATER MANAGEMENT SYSTEM DESCRIPTION:

1. TOTAL RETENTION WITH NO OFFSITE DISCHARGE
2. RETENTION OF POST-DEVELOPED LESS PRE-DEVELOPED DISCHARGE
3. DRY DETENTION OF POST-DEVELOPED DISCHARGE
4. WET DETENTION OF REQUIRED TREATMENT VOLUME
5. SYSTEM COMPRISED ENTIRELY OF GRASS SWALES X
6. OTHER : Water Quality and attenuation for the 25yr – 24hr critical storm event

INDICATE INITIAL (1st) AND SECONDARY (2nd) RECEIVING WATER

BODIES/DRAINAGE SYSTEMS FOR EACH RETENTION/DETENTION SYSTEM IN

PROJECT: Castaway Camp Ground

1st WATER BODY: NATURAL DRAIN/UN-NAMED WETLANDS OPERATOR _____

2nd WATER BODY: _____ OPERATOR _____

IS FIRST WATER BODY: NATURAL (X) OR MAN-MADE ( )?

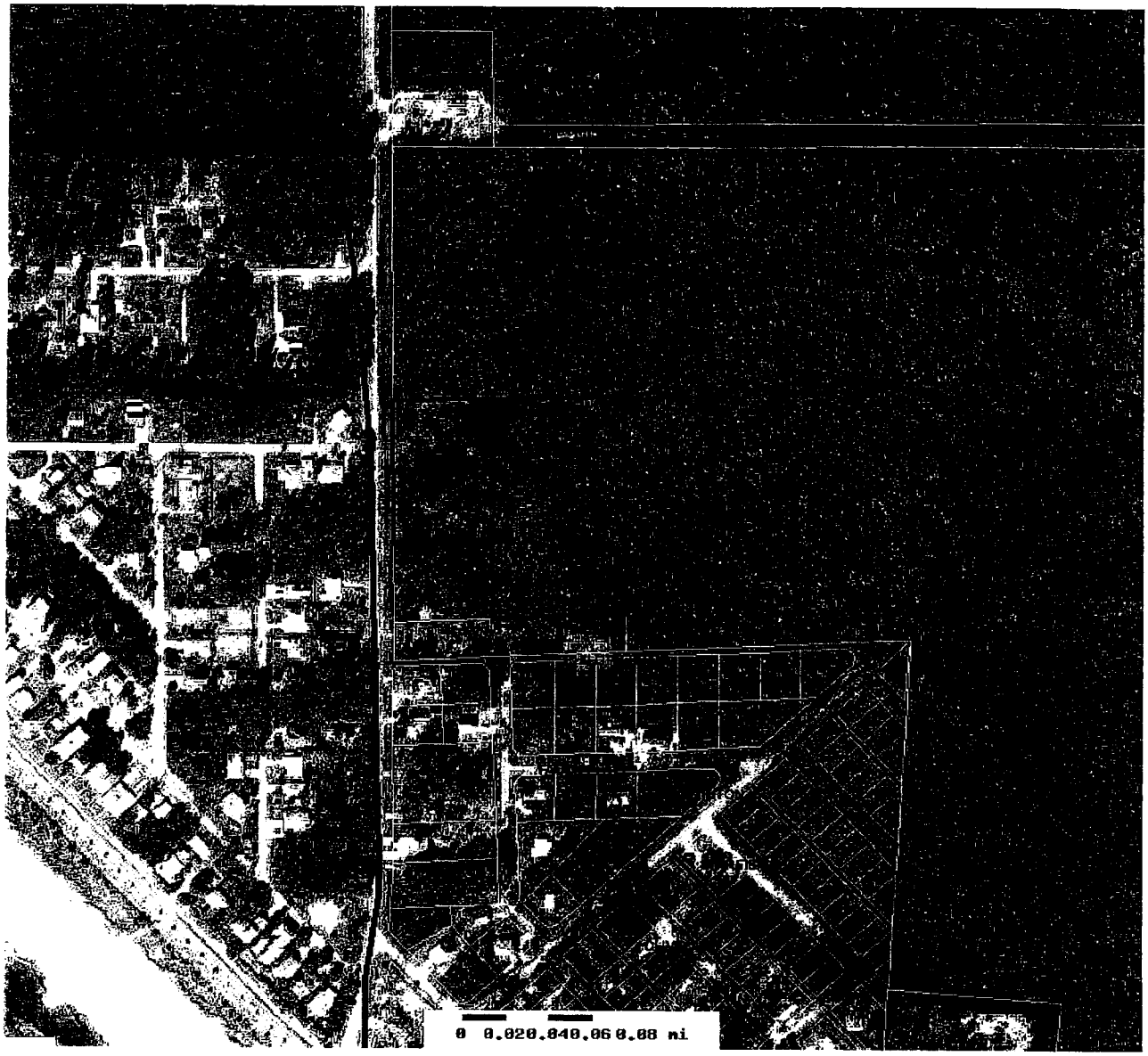
STORAGE FACILITY DATA:

AREA CONTRIBUTING TO THE STORAGE FACILITY **SEE CALCS** (acres)
PERMEABILITY RATE OF STORAGE AREA **6.52** (in/hr)
Source: (Please provide supporting documentation) **Conservative estimate for proposed fill material**

CONTROL STRUCTURE DESCRIPTION: **3' wide concrete weir (please see the attached drawings)**

ATTACHED ARE THE NECESSARY PAGES OF SUPPORTING INFORMATION AND CALCULATIONS.

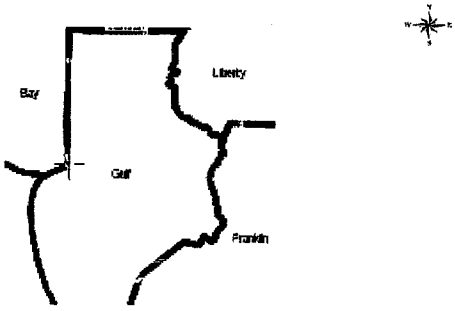
125 HWY 22 P.O. BOX 141
WEWAHITCHKA, FLORIDA 32465
WWW.SOUTHEASTERNCE.COM
850.639.3860



Gulf County Property Appraiser

Parcel: 03552-000R Acres: 6.142

Name:	CINNAMON HILL LLC	Land Value	52,207
Site:	PHILLIPS DR	Building Value	0
Sale:		Misc Value	0
Mail:	P O BOX 70 OCHLOCKNEE, GA 31773	Just Value	52,207
		Assessed Value	52,207
		Exempt Value	0
		Taxable Value	52,207



The Gulf County Property Appraiser's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER GULF COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS —THIS IS NOT A SURVEY—

Date printed: 06/12/14 : 16:02:20

Gulf County Property Appraiser

Mitch Burke, CFA

Owner and Parcel Information

Owner Name	CINNAMON HILL LLC	Today's Date	June 12, 2014
Mailing Address	P O BOX 70	Parcel Number	03552-000R
	OCHLOCKNEE, GA 31773	Tax District	St Joe Fire Zone (District 4)
Location Address	PHILLIPS DR	2013 Millage Rates	14.0638
Property Usage	VACANT (000000)	Acreage	6.142
Section Township Range	30-6S-11W	Homestead	N

Show Parcel Maps | Generate Owner List By Radius

Value Information

	2013 Certified Values	2014 Working Values
Building Value	$0	$0
Extra Feature Value	$0	$0
Land Value	$52,207	$52,207
Land Agricultural Value	$0	$0
Agricultural (Market) Value	$0	$0
Just (Market) Value*	$52,207	$52,207
Assessed Value	$52,207	$52,207
Exempt Value	$0	$0
Taxable Value	$52,207	$52,207
Maximum Save Our Homes Portability	$0	$0
AGL Amount		

"Just (Market) Value" description - This is the value established by the Property Appraiser for ad valorem purposes. This value does not represent anticipated selling price.

Legal Information

S 30 T 6 R 11 6.142 AC BEING PARCEL B, WILLIAMS MINORORB 484/753 QC FR MEXICO BEACHLAND AND DEVELOPMENT LLC REPLAT MAP16B

The legal description shown here may be condensed for assessment purposes. Exact description should be obtained from the recorded deed.

Tax Information

Building Information

No buildings associated with this parcel.

Extra Features Data

Description	Number of Items	Unit Length x Width x Height	Units	Effective Year Built

No records associated with this parcel.

Land Information

LAND USE	NUMBER OF UNITS	UNIT TYPE	Frontage	Depth
VACANT 5-10AC	6.142	AC	0	0

Sale Information

Sale Date	Sale Price	Instrument	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantor	Grantee
2-09-2009	$ 53,000	Quit Claim Deed	484	753	Unqualified	Vacant	MEXICO BEACH LAND AND DEVELOPMENT LLC	CINNAMON HILL LLC
07-17-2003	$ 275,000	Warranty Deed	314	482	Unqualified	Vacant	WATSON J C & BARBARA A (TRUSTEES)	MEXICO BEACH LAND & DEVELOPMENT LLC
09-14-2000	$ 100	TRUSTEE DEED	247	92	Unqualified	Vacant	WATSON	WATSON (TRUSTEES) THE WATSON LVG TRUST OF '00

26

11-10-1992	$ 13,500	Warranty Deed	156	593	Unqualified	Vacant	PROWS	WATSON

Sales In Area **Previous Parcel** **Next Parcel** **Field Definitions** **Return to Main Search** **Gulf Home**

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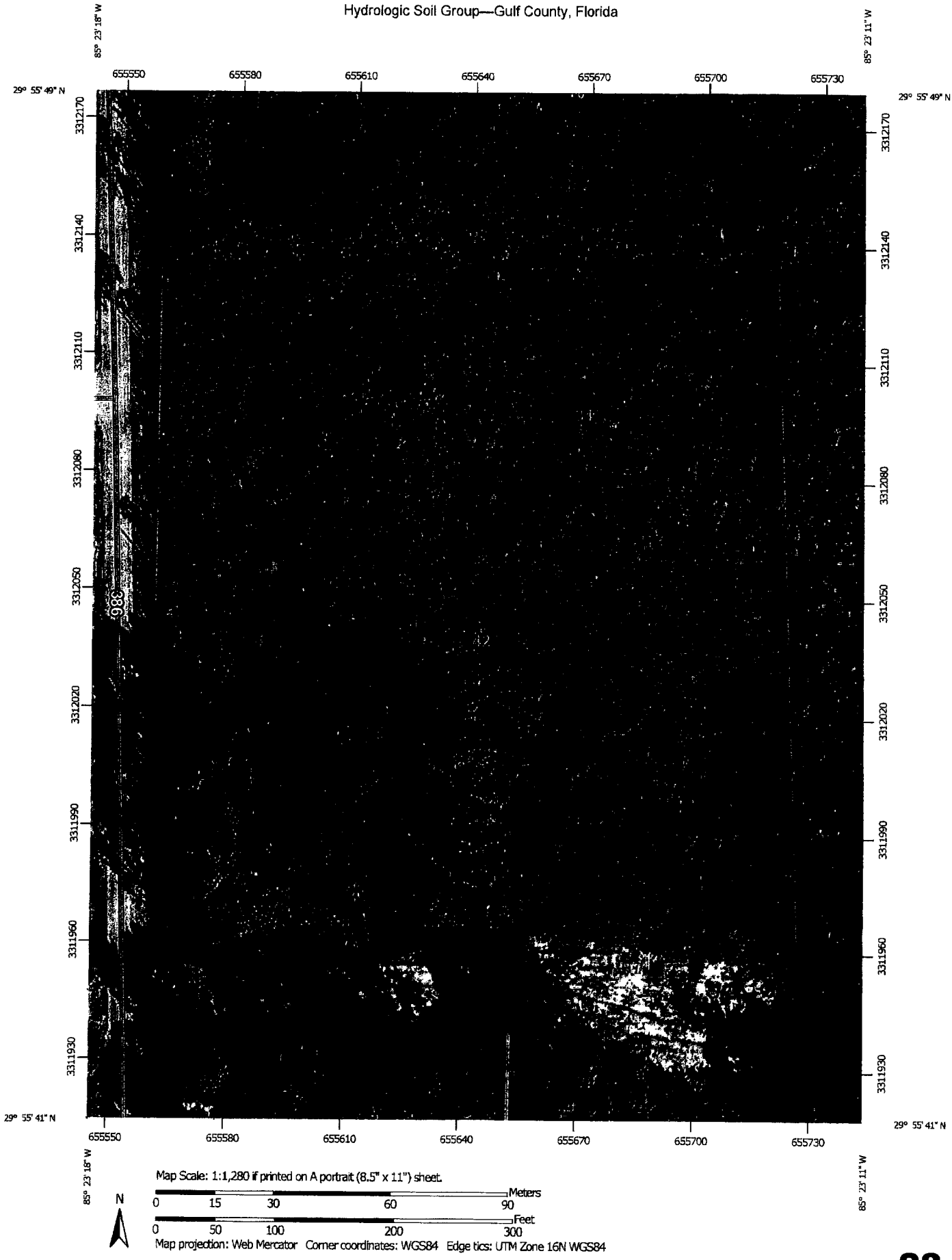
Hydrologic Soil Group—Gulf County, Florida



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Gulf County, Florida
Survey Area Data: Version 9, Dec 27, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 5, 2010—Dec 10, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Gulf County, Florida (FL045)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
34	Pickney and Rutlege soils, depressional	A/D	2.2	42.4%
42	Pottsburg fine sand	A/D	2.9	57.6%
Totals for Area of Interest			**5.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

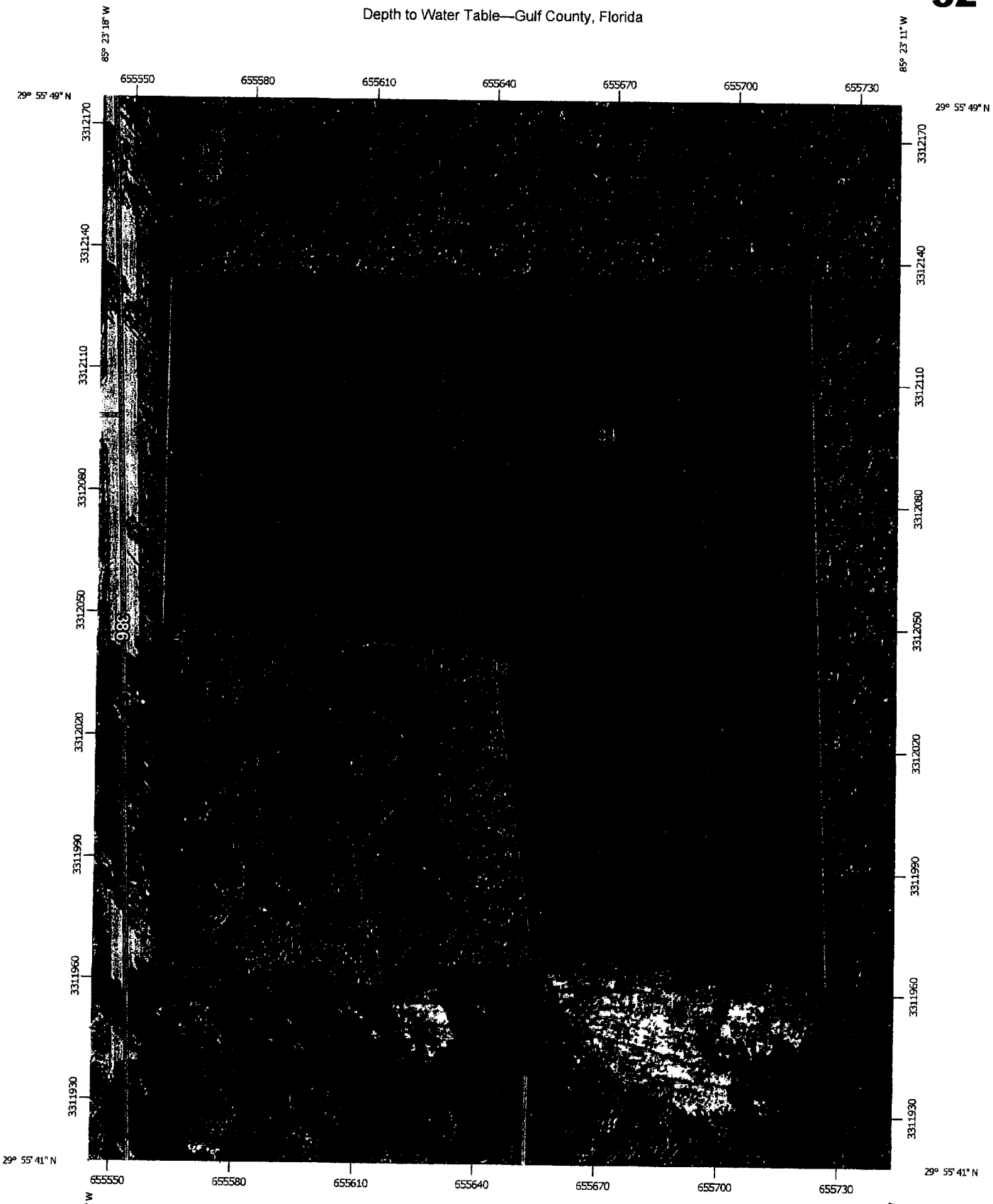
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher

Depth to Water Table—Gulf County, Florida



Map Scale: 1:1,280 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Gulf County, Florida
Survey Area Data: Version 9, Dec 27, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 5, 2010—Dec 10, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Depth to Water Table— Summary by Map Unit — Gulf County, Florida (FL045)				
Map unit symbol	**Map unit name**	**Rating (centimeters)**	**Acres in AOI**	**Percent of AOI**
34	Pickney and Rutlege soils, depressional	15	2.2	42.4%
42	Pottsburg fine sand	8	2.9	57.6%
Totals for Area of Interest			**5.1**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: *None Specified*

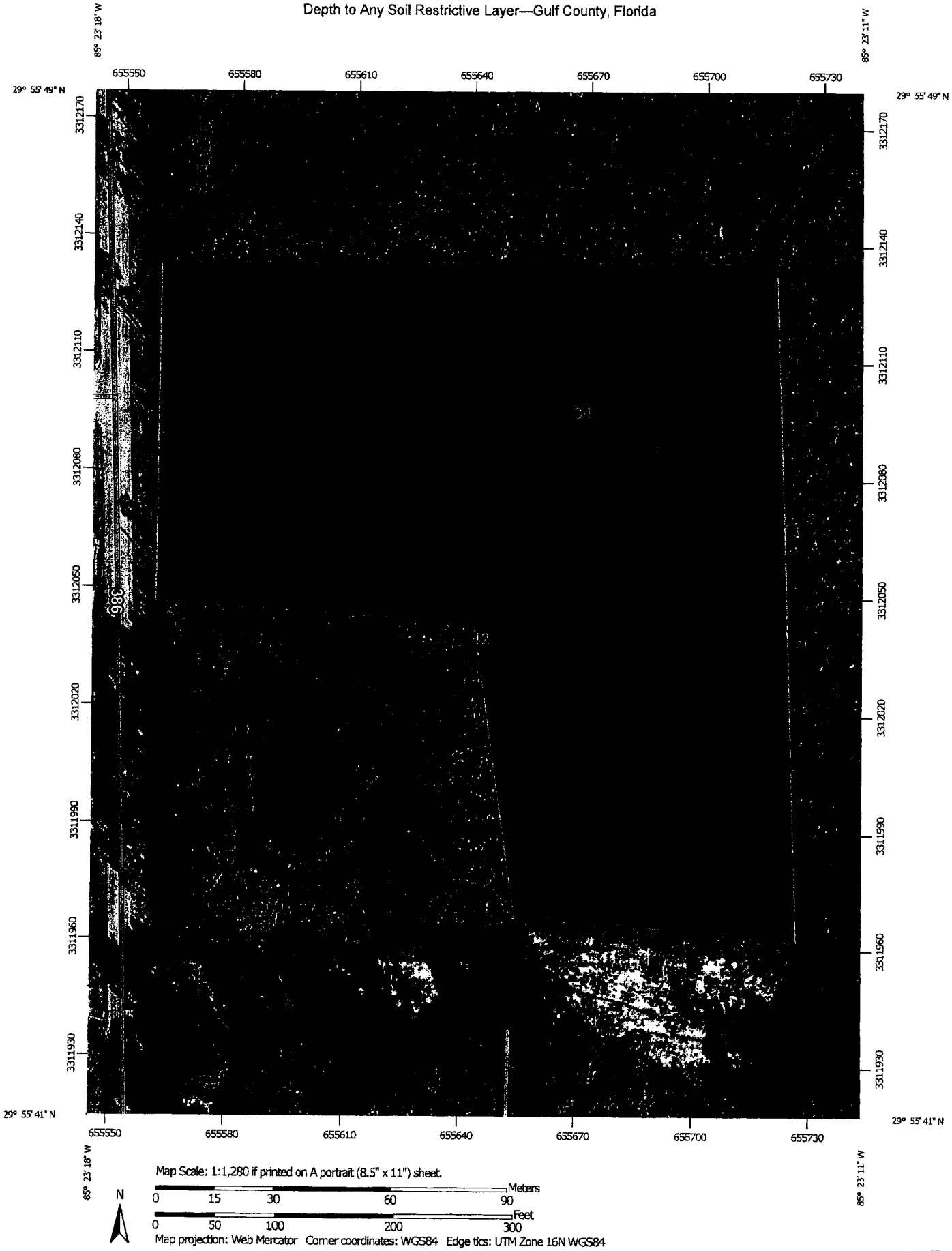
Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Depth to Any Soil Restrictive Layer—Gulf County, Florida



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

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This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Gulf County, Florida
Survey Area Data: Version 9, Dec 27, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 5, 2010—Dec 10, 2010

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Depth to Any Soil Restrictive Layer

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Gulf County, Florida (FL045)				
Map unit symbol	**Map unit name**	**Rating (centimeters)**	**Acres in AOI**	**Percent of AOI**
34	Pickney and Rutlege soils, depressional	>200	2.2	42.4%
42	Pottsburg fine sand	>200	2.9	57.6%
Totals for Area of Interest			**5.1**	**100.0%**

Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

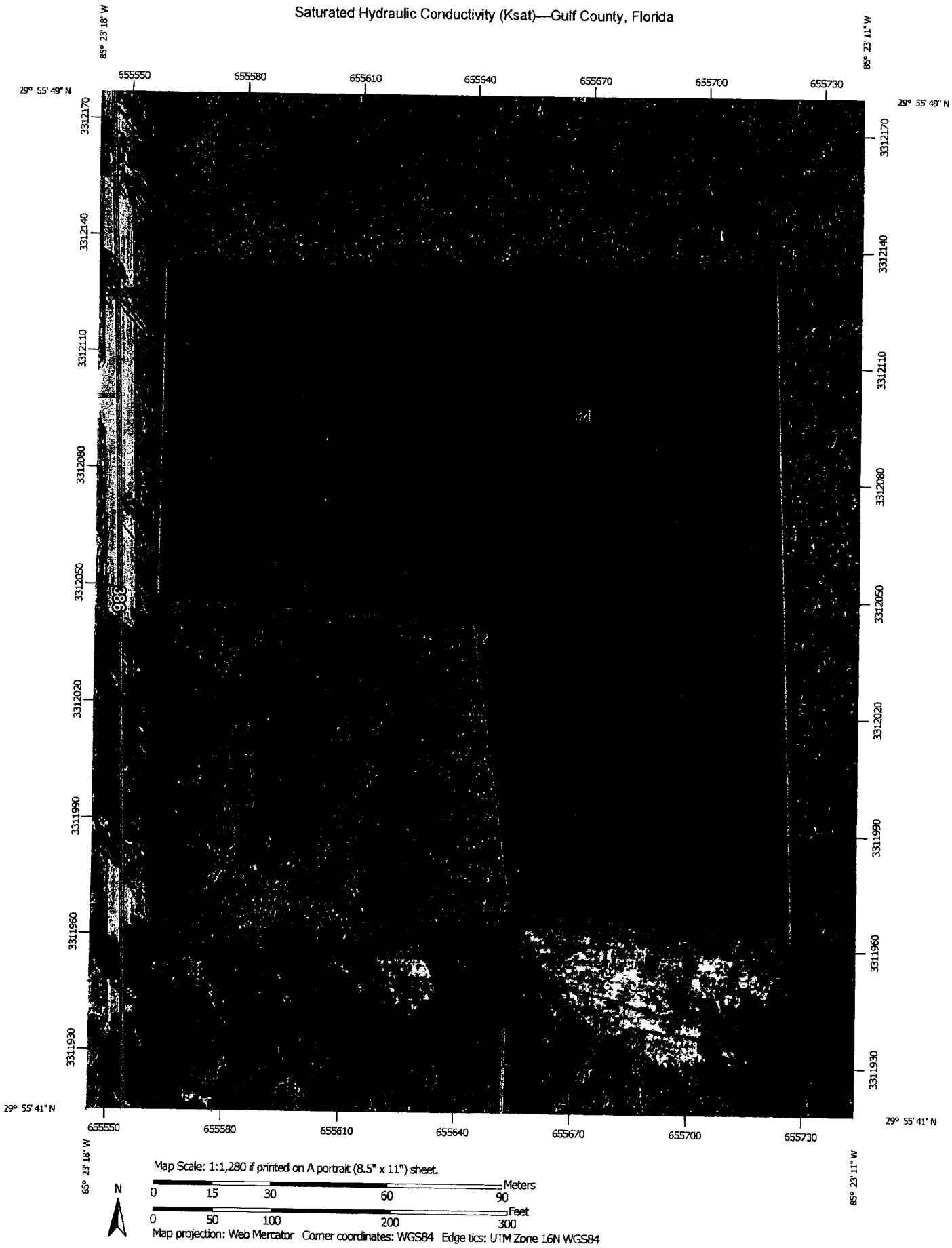
Aggregation Method: Dominant Component

Component Percent Cutoff: *None Specified*

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Saturated Hydraulic Conductivity (Ksat)—Gulf County, Florida



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

<= 64.1970

> 64.1970 and <= 92.0000

Not rated or not available

Soil Rating Lines

<= 64.1970

> 64.1970 and <= 92.0000

Not rated or not available

Soil Rating Points

<= 64.1970

> 64.1970 and <= 92.0000

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Gulf County, Florida
Survey Area Data: Version 9, Dec 27, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 5, 2010—Dec 10, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Saturated Hydraulic Conductivity (Ksat)

Saturated Hydraulic Conductivity (Ksat)— Summary by Map Unit — Gulf County, Florida (FL045)				
Map unit symbol	**Map unit name**	**Rating (micrometers per second)**	**Acres in AOI**	**Percent of AOI**
34	Pickney and Rutlege soils, depressional	92.0000	2.2	42.4%
42	Pottsburg fine sand	64.1970	2.9	57.6%
Totals for Area of Interest			**5.1**	**100.0%**

Description

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

The numeric Ksat values have been grouped according to standard Ksat class limits.

Rating Options

Units of Measure: micrometers per second

Aggregation Method: Dominant Component

Component Percent Cutoff: *None Specified*

Tie-break Rule: Fastest

Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): All Layers (Weighted Average)

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Project Data

Project Name:	Castaway Campground
Simulation Description:	Drainage Basin 1
Project Number:	12-90-01
Engineer :	LW
Supervising Engineer:	JH
Date:	05-27-2014

Geometry Data

Equivalent Pond Length, [L] (ft):	1175.3
Equivalent Pond Width, [W] (ft):	8.0

Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft^2)
11.75	4670.3
12.75	14086.4
13.25	18832.1

Discharge Structures

Discharge Structure #1 is active as weir

Structure Parameters

Description: Overflow

Weir elevation, (ft datum):	12.75
Weir coefficient:	3.13
Weir length, (ft):	3
Weir exponent:	1.5

Tailwater - disabled, free discharge

Discharge Structure #2 is inactive

Discharge Structure #3 is inactive

Scenario Input Data

Scenario 1 :: water quality 0.5" over site

Hydrograph Type: Slug Load
Modflow Routing: Routed with infiltration

Treatment Volume (ft^3) 4635.09

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 2 :: Pre 25 yr 24 hr

Hydrograph Type: Inline SCS
Modflow Routing: Routed with infiltration
Repetitions: 1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	10.6
Design Rainfall Duration (hours)	24.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 24 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario Input Data (cont'd.)

Scenario 3 :: Post 25 yr 24 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	10.6
Design Rainfall Duration (hours)	24.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 24 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 4 :: Pre 25 yr 1 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	3.7
Design Rainfall Duration (hours)	1.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 1 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario Input Data (cont'd.)

Scenario 5 :: Post 25 yr 1 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	3.7
Design Rainfall Duration (hours)	1.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 1 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 6 :: Pre 25 yr 2 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	2.4
Design Rainfall Duration (hours)	2.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 2 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario Input Data (cont'd.)

Scenario 7 :: Post 25yr 2 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	2.4
Design Rainfall Duration (hours)	2.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 2 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 8 :: Pre 25 yr 4 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	1.5
Design Rainfall Duration (hours)	4.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 4 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario Input Data (cont'd.)

Scenario 9 :: Post 25 yr 4 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	1.5
Design Rainfall Duration (hours)	4.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 4 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 10 :: Pre 25 yr 8 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	1.1
Design Rainfall Duration (hours)	8.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 8 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario Input Data (cont'd.)

Scenario 11 :: Post 25 yr 8 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	1.1
Design Rainfall Duration (hours)	8.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 8 Hour

Initial ground water level (ft datum) 10.75 (default)

Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

Scenario 12 :: Pre 2 ty 24 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	83
Design Rainfall Depth (inches)	6.0
Design Rainfall Duration (hours)	24.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 24 Hour

Initial ground water level (ft datum) 10.75 (default)

No times after storm specified.

Scenario Input Data (cont'd.)

Scenario 13 :: Post 2 yr 24 hr

Hydrograph Type:	Inline SCS
Modflow Routing:	Routed with infiltration
Repetitions:	1

Basin Area (acres)	2.550
Time Of Concentration (minutes)	20.0
DCIA (%)	0.0
Curve Number	87
Design Rainfall Depth (inches)	6.0
Design Rainfall Duration (hours)	24.0
Shape Factor	UHG 256
Rainfall Distribution	FDOT 24 Hour

Initial ground water level (ft datum) 10.75 (default)

No times after storm specified.

Worst Case Scenarios

Selection Criteria: <default - All scenarios with valid results>

Maximum Stage = 13.04616 ft datum

For scenario 5 at Time = 1.466667 hours
Scenario Description: Post 25 yr 1 hr

Scenarios considered: 1 to 13

Minimum Stage = 10.75 ft datum

For scenario 1 at Time = 0 hours
Scenario Description: water quality 0.5" over site

For scenario 2 at Time = 0 hours
Scenario Description: Pre 25 yr 24 hr

For scenario 3 at Time = 0 hours
Scenario Description: Post 25 yr 24 hr

For scenario 4 at Time = 0 hours
Scenario Description: Pre 25 yr 1 hr

For scenario 5 at Time = 0 hours
Scenario Description: Post 25 yr 1 hr

For scenario 6 at Time = 0 hours
Scenario Description: Pre 25 yr 2 hr

For scenario 7 at Time = 0 hours
Scenario Description: Post 25yr 2 hr

For scenario 8 at Time = 0 hours
Scenario Description: Pre 25 yr 4 hr

For scenario 9 at Time = 0 hours
Scenario Description: Post 25 yr 4 hr

For scenario 10 at Time = 0 hours
Scenario Description: Pre 25 yr 8 hr

For scenario 11 at Time = 0 hours
Scenario Description: Post 25 yr 8 hr

For scenario 12 at Time = 0 hours
Scenario Description: Pre 2 ty 24 hr

For scenario 13 at Time = 0 hours
Scenario Description: Post 2 yr 24 hr

Scenarios considered: 1 to 13

Maximum Positive Inflow Rate = 772.515 ft^3/s

For scenario 1 at Time = 1.666667E-03 hours
Scenario Description: water quality 0.5" over site

Scenarios considered: 1 to 13

Maximum Positive Cumulative Inflow Volume = 82881.52 ft^3

For scenario 3 at Time = 25.95555 hours
Scenario Description: Post 25 yr 24 hr

Scenarios considered: 1 to 13

Worst Case Scenarios (cont'd.)

Maximum Positive Infiltration Rate = 5.194575 ft^3/s

For scenario 5 at Time = 2.4 hours
Scenario Description: Post 25 yr 1 hr

Scenarios considered: 1 to 13

Maximum Positive Cumulative Infiltration Volume = 44872.5 ft^3

For scenario 3 at Time = 98.04445 hours
Scenario Description: Post 25 yr 24 hr

Scenarios considered: 1 to 13

Maximum Positive Discharge Rate = 1.513442 ft^3/s

For scenario 5 at Time = 1.466667 hours
Scenario Description: Post 25 yr 1 hr

Scenarios considered: 1 to 13

Maximum Positive Cumulative Discharge Volume = 38009.02 ft^3

For scenario 3 at Time = 25.55556 hours
Scenario Description: Post 25 yr 24 hr

Scenarios considered: 1 to 13

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Summary of Results :: *Scenario 1 :: water quality 0.5" over site*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	0.002	12.36		
Inflow				
Rate - Maximum - Positive	0.002		772.5150	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	0.002			4635.1
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			4635.1
Infiltration				
Rate - Maximum - Positive	0.002		0.5258	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.400			3681.7
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			4635.1
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	36.000	Dry		4635.1
72 Hour Stage and Infiltration Volume	72.000	Dry		4635.1

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Summary of Results :: *Scenario 2 :: Pre 25 yr 24 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	13.156	13.01		
Inflow				
Rate - Maximum - Positive	12.044		2.3986	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.956			78155.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			78155.2
Infiltration				
Rate - Maximum - Positive	7.644		3.3042	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	86.044			44208.8
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			44208.8
Combined Discharge				
Rate - Maximum - Positive	13.156		1.2200	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.511			33946.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			33946.4
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	13.156		1.2200	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.511			33946.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			33946.4
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 3* :: *Post 25 yr 24 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	12.711	13.03		
Inflow				
Rate - Maximum - Positive	12.000		2.4915	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.956			82881.5
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			82881.5
Infiltration				
Rate - Maximum - Positive	7.022		3.4574	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	98.044			44872.5
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			44872.5
Combined Discharge				
Rate - Maximum - Positive	12.711		1.4074	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.556			38009.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			38009.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	12.711		1.4074	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.556			38009.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	122.044			38009.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 4 :: Pre 25 yr 1 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	1.556	12.96		
Inflow				
Rate - Maximum - Positive	0.800		6.5701	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.978			18765.8
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			18765.8
Infiltration				
Rate - Maximum - Positive	2.444		5.0360	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	15.022			15566.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			15566.0
Combined Discharge				
Rate - Maximum - Positive	1.556		0.9092	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.489			3199.8
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			3199.8
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	1.556		0.9092	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.489			3199.8
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			3199.8
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 5 :: Post 25 yr 1 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	1.467	13.05		
Inflow				
Rate - Maximum - Positive	0.800		7.5608	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.978			21865.8
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			21865.8
Infiltration				
Rate - Maximum - Positive	2.400		5.1946	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	15.022			16292.5
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			16292.5
Combined Discharge				
Rate - Maximum - Positive	1.467		1.5134	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.533			5573.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			5573.4
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	1.467		1.5134	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	2.533			5573.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	99.022			5573.4
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 6 :: Pre 25 yr 2 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	2.311	12.44		
Inflow				
Rate - Maximum - Positive	0.978		2.0243	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	3.956			9077.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			9077.0
Infiltration				
Rate - Maximum - Positive	3.244		3.7536	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	6.444			9077.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			9077.0
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

PONDS Version 3.2.0241
Retention Pond Recovery - Refined Method
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Summary of Results :: *Scenario 7 :: Post 25yr 2 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	2.311	12.59		
Inflow				
Rate - Maximum - Positive	0.978		2.5955	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	3.956			11362.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			11362.4
Infiltration				
Rate - Maximum - Positive	2.933		4.3526	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	10.044			11362.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			11362.4
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	100.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 8 :: Pre 25 yr 4 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	3.600	11.93		
Inflow				
Rate - Maximum - Positive	3.022		0.5587	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	5.956			3505.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			3505.2
Infiltration				
Rate - Maximum - Positive	3.600		0.3260	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	5.956			3505.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			3505.2
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 9* :: *Post 25 yr 4 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	3.644	12.06		
Inflow				
Rate - Maximum - Positive	2.622		0.7722	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	5.956			4953.1
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			4953.1
Infiltration				
Rate - Maximum - Positive	5.600		0.9689	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	5.956			4953.1
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			4953.1
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	102.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 10 :: Pre 25 yr 8 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	9.911	11.15		
Inflow				
Rate - Maximum - Positive	4.133		0.1513	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	9.956			1411.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			1411.4
Infiltration				
Rate - Maximum - Positive	4.133		0.1500	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	9.956			1411.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			1411.4
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 11 :: Post 25 yr 8 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	4.356	11.76		
Inflow				
Rate - Maximum - Positive	4.133		0.2826	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	9.956			2325.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			2325.2
Infiltration				
Rate - Maximum - Positive	4.356		0.2425	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	9.956			2325.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			2325.2
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			0.0
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	106.044			0.0
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 12 :: Pre 2 ty 24 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	21.378	12.77		
Inflow				
Rate - Maximum - Positive	12.044		1.1994	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.956			37859.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			37859.2
Infiltration				
Rate - Maximum - Positive	10.089		2.9198	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.044			30201.7
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			30201.7
Combined Discharge				
Rate - Maximum - Positive	21.378		0.0196	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	22.756			98.9
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			98.9
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	21.378		0.0196	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	22.756			98.9
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			98.9
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

Summary of Results :: *Scenario 13 :: Post 2 yr 24 hr*

	Time (hours)	Stage (ft datum)	Rate (ft^3/s)	Volume (ft^3)
Stage				
Minimum	0.000	10.75		
Maximum	19.333	12.81		
Inflow				
Rate - Maximum - Positive	12.044		1.3030	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	25.956			41799.7
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			41799.7
Infiltration				
Rate - Maximum - Positive	9.289		2.8862	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.044			31524.6
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			31524.6
Combined Discharge				
Rate - Maximum - Positive	19.333		0.1525	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	23.689			2264.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			2264.4
Discharge Structure 1 - simple weir				
Rate - Maximum - Positive	19.333		0.1525	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	23.689			2264.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	26.044			2264.4
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

SOUTHEASTERN
CONSULTING ENGINEERS, INC.

CASTAWAY CAMP GROUND PERMIT DRAWINGS

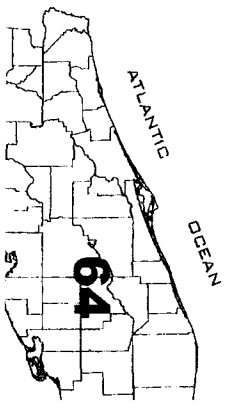
SECTION	30	TOWNSHIP	6S	RANGE	11W

C.R. 386

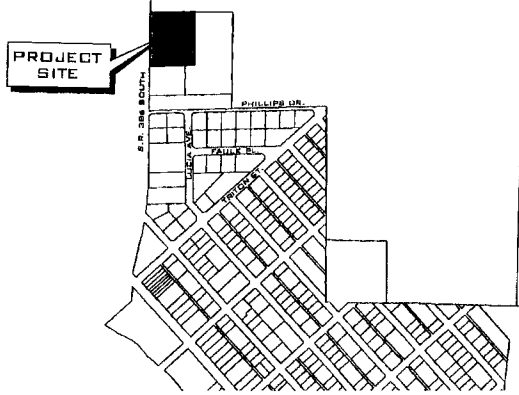
FOR

CINNAMON HILL LLC.

ICINITY



LOCATION MAP



SHEET I

SHEET	SHEET NAM
CVR	COVER SHEE
G1	GENERAL NO
C1	EXISTING CO
C2	DRAINAGE BA
C3	SITE PLAN
C4	GRADING PLA
C5	WASTEWATER
C6	WASTEWATER
C7	WATER SYSTE
C8	CONCEPTUAL

THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".

3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.

4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED AS NECESSARY.

6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.

8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.

9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.

10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.

11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.

12. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.

13. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF HAY BALES OR SODDING.

14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.

15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.

16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.

17. EXCESS DIRT SHALL BE REMOVED DAILY.

18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS.

19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.

20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.

SHALL BE NO SMALLER THAN SIX INCHES IN DIAMETER. AUXILIARY VALVES SHALL BE PROVIDED ON ALL HYDRANT LEADS.

4. SUFFICIENT VALVES SHALL BE PROVIDED IN NEW AND RELOCATED WATER MAINS SO THAT INCONVENIENCE AND SANITARY HAZARDS WILL BE MINIMIZED DURING REPAIRS. (VALVES SHALL BE PLACED IN NO MORE THAN 500-FOOT INTERVALS IN COMMERCIAL DISTRICTS AND AT NO MORE THAN ONE-BLOCK OR 800-FOOT INTERVALS IN OTHER DISTRICTS.)

5. IF THERE ARE ANY NEW OR RELOCATED WATER MAINS THAT CROSS UNDER ANY SURFACE WATER, A MINIMUM COVER OF TWO FEET SHALL BE PROVIDED OVER THE WATER MAIN PIPE AT EACH SURFACE WATER CROSSING, AND IF THE SURFACE WATER IS GREATER THAN 15 FEET IN WIDTH, THE FOLLOWING FEATURES SHALL BE PROVIDED: (A) FLEXIBLE WATER TIGHT JOINTS FOR THE WATER MAIN PIPE AT THE CROSSING, (B) EASILY ACCESSIBLE VALVES LOCATED IN A MANHOLE, AND (C) PERMANENT TAPS ON EACH SIDE OF THE VALVE WITHIN THE MANHOLE TO ALLOW FOR SAMPLING AND INSERTION OF A SMALL METER TO DETERMINE LEAKAGE.

6. PROPER BACKFLOW-PREVENTION ASSEMBLIES/DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH RULE 62-555.360, F.A.C., AND THE AWWA'S MANUAL M/4, RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL.

7. THIS PROJECT SHALL NOT INCLUDE ANY INTERCONNECTION BETWEEN PREVIOUSLY SEPARATE PUBLIC WATER SYSTEMS THAT HAVE SEPARATE WATER SUPPLY SOURCES. (A SPECIFIC CONSTRUCTION PERMIT IS REQUIRED FOR SUCH AN INTERCONNECTION.)

8. ALL NEW RELOCATED WATER LATERALS THAT CROSS ANY SANITARY SEWERS, STORM SEWERS, FORCE MAINS, OR RECLAIMED WATER LINES SHALL CROSS ABOVE SUCH PIPELINES.

9. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE POTABLE WATER MAIN EXTENSION AND THE SANITARY SEWER MAIN EXTENSIONS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. SUBMIT THE SURVEY TO THE ENGINEER ON REPRODUCIBLE 20LB. VELLUM AND IN DIGITAL AUTOCAD FORMAT.

10. COPPER TRACER WIRE SHALL BE PLACED ON ALL POTABLE WATER LINES AND WATER LATERALS. TRACER WIRE SHALL BE CONTINUOUS WITH NO INTERRUPTIONS.

11. LOCATOR BALLS SHALL BE PROVIDED AT END OF ALL WATER AND SANITARY SEWER LATERALS. THE LOCATOR BALLS SHALL BE SECURED TO THE LATERALS WITH A PLASTIC TIE STRAP.

12. WATER AND SANITARY SEWER LATERALS SHALL BE LEFT UNCOVERED UNTIL INSPECTED BY THE ENGINEER OR THE ENGINEER'S INSPECTOR.

13. CONTRACTOR SHALL PROVIDE TEMPORARY STAKES (2" BY 2" WOODEN STAKES) AT THE END OF EACH LATERAL. EACH STAKE SHALL INDICATE EITHER WATER OR SANITARY SEWER LATERAL. CONTRACTOR SHALL MAINTAIN THE STAKES UNTIL AN AS-BUILT SURVEY OF WATER AND SANITARY SEWER MAINS AND LATERALS ARE COMPLETE AND APPROVED BY THE ENGINEER.

14. MEGALUG MECHANICAL JOINT RESTRAINTS OR SERIES 1390 UNI-FLANGE BLOCK BUSTER RESTRAINT DEVICES SHALL BE USED WITH MANUFACTURER'S RECOMMENDATIONS. ALL RESTRAINED JOINTING MUST BE LEFT OPEN UNTIL VIEWED BY THE CITY INSPECTOR.

15. FOR SANITARY SEWER PERFORM HYDROSTATIC TEST. ALLOWABLE LEAKAGE IS A MAXIMUM OF 50 GAL. PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE, DURING A 24-HOUR PERIOD. OPTION: TEST DUCTILE-IRON PIPING ACCORDING TO AWWA C600, SECTION "HYDROSTATIC TESTING". USE TEST

COMPLIES WITH THE REQUIREMENTS OF ASTM D3034.

19. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.

20. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN RULE 62-555.335, F.A.C., OR OTHER APPLICABLE STANDARDS, REGULATIONS, OR REQUIREMENTS REFERENCED IN PARAGRAPH 62-555.320(3)(B), F.A.C.

21. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LED.

22. ALL WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B) 3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR WILL BE COLOR-CODED OR MARKED LIKE UNDERGROUND PIPE.)

23. SUFFICIENT VALVES SHALL BE PROVIDED ON NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT SO THAT INCONVENIENCE AND SANITARY HAZARDS WILL BE MINIMIZED DURING REPAIRS.

24. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL HAVE UNPLUGGED, UNDERGROUND DRAINS SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER; CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER; OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-10, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

25. NEW OR ALTERED CHAMBERS, PITS, OR MANHOLES THAT CONTAIN VALVES, BLOW-OFFS, METERS, OR OTHER SUCH WATER DISTRIBUTION SYSTEM APPURTENANCES AND THAT ARE INCLUDED IN THIS PROJECT WILL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER, AND BLOW-OFFS OR AIR RELIEF VALVES INSTALLED UNDER THIS PROJECT SHALL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER.

26. NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED PROCEDURES.

27. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE

AND LEAKAGE TEST
STANDARD C600 AS
62-555.330.

30. NEW OR ALTERED W
HYDRANT LEADS AN
THAT WILL BE UNDE
WATER SYSTEM AND
DIAMETER OF THREE
BE DISINFECTED AN
EVALUATED IN ACCO
62-555.340, F.A.C.

31. NEW OR ALTERED W
INCLUDED IN THIS F
INSTALLED IN AREA
AGGRESSIVE SOIL C
PROTECTED THROUG
CORROSION-RESIST
THROUGH ENCASEM
POLYETHYLENE, OR
CATHODIC PROTECT

32. NEW OR RELOCATED
INCLUDED IN THIS F
PROVIDE A HORIZON
THREE FEET BETWEE
MAIN AND THE OUTE
PROPOSED VACUUM
SEWER, STORMWATE
CONVEYING RECLAIM
PART III OF CHAPTER

33. NEW OR RELOCATED
INCLUDED IN THIS P
HORIZONTAL DISTAN
FEET IS PREFERRED
WATER MAIN AND TH
PROPOSED GRAVITY-
EXISTING OR PROPO
SEWER, WASTEWATE
CONVEYING RECLAIM
UNDER PART III OF C

34. THE HORIZONTAL SE
WATER MAINS AND E
MAY BE REDUCED TO
BOTTOM OF THE WAT
TWELVE INCHES ABO

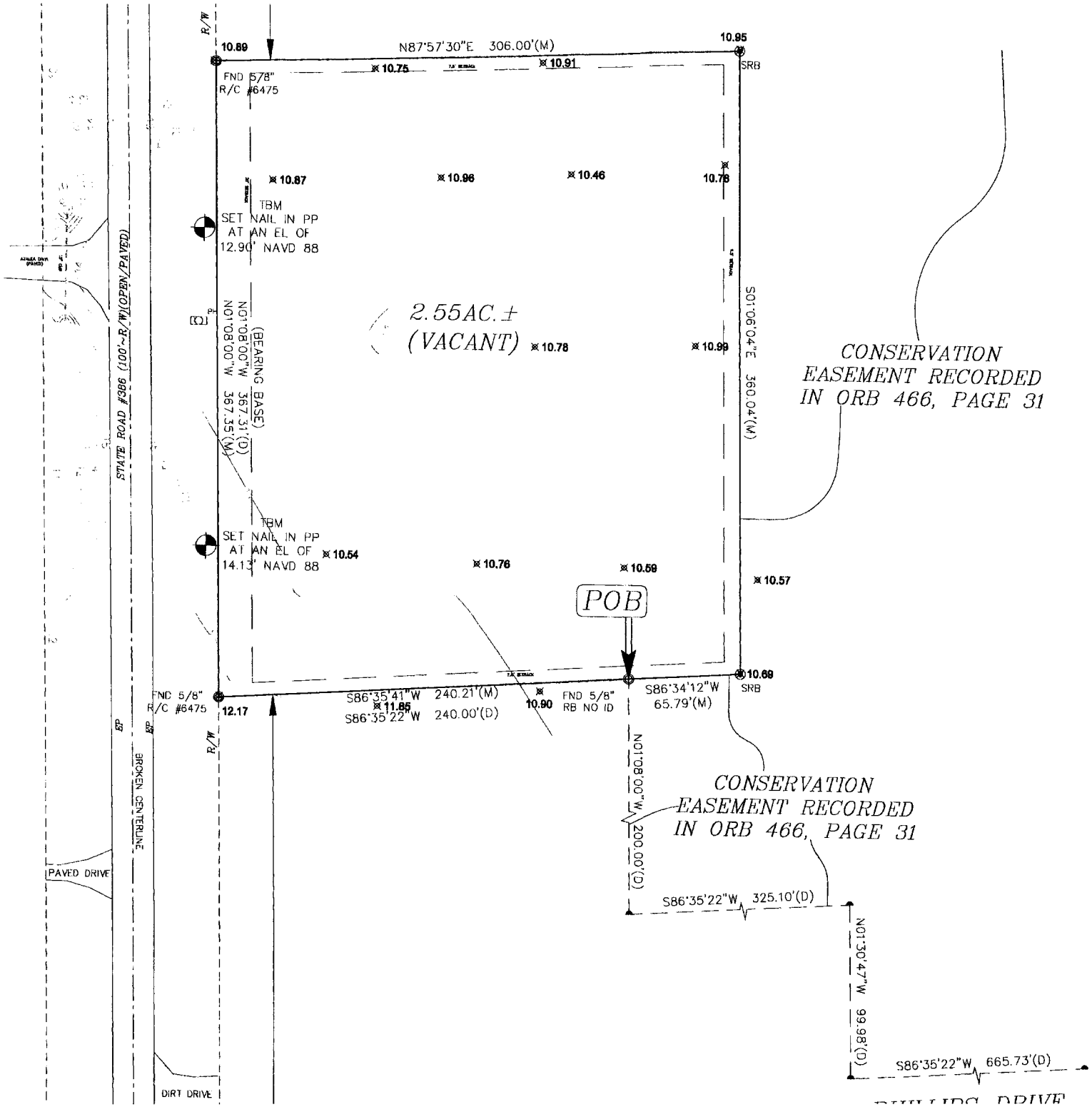
35. A HORIZONTAL DIS
BETWEEN THE OUTSI
ALL PARTS OF ANY E
"ON-SITE SEWAGE TR
SYSTEM."

36. NEW OR RELOCATED,
THAT ARE INCLUDED
WILL CROSS ANY EXI
OR VACUUM-TYPE SA
SEWER SHALL BE LA
WATER MAIN IS AT LE
OTHER PIPELINE. NE
UNDERGROUND WATE
IN THIS PROJECT AN
EXISTING OR PROPO
SEWER, WASTEWATE
OR PIPELINE CONVEY
BE LAID SO THE OUT
LEAST 12 INCHES AB

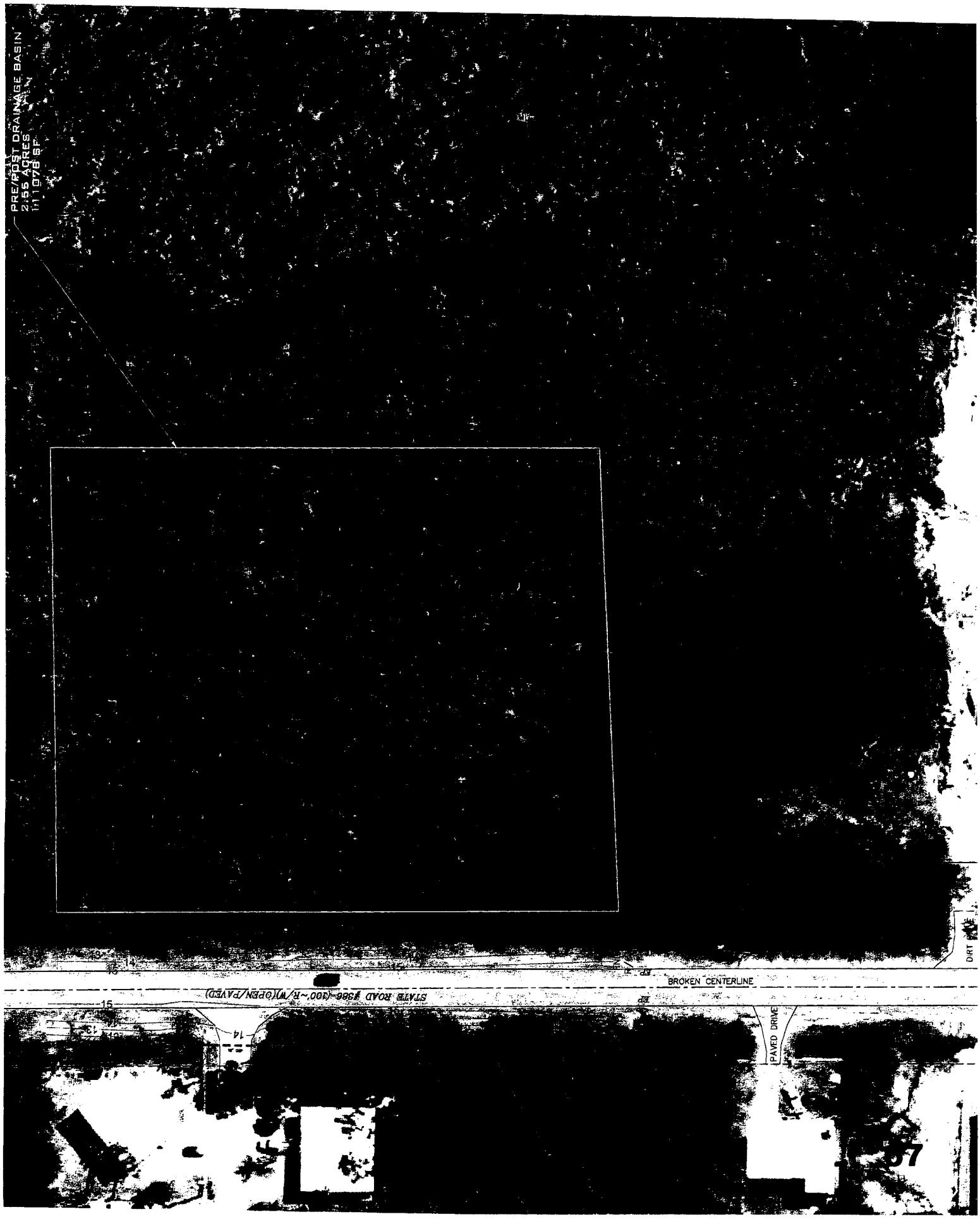
37. AT THE UTILITY CROS
SEPARATION DISTAN
WATER SERVICE PIPE
PROVIDED THE WATE
AT LEAST FIVE FEET
SEWER PIPE CENTERL
CROSSINGS PIPE MA
BUILDING CODE SECT

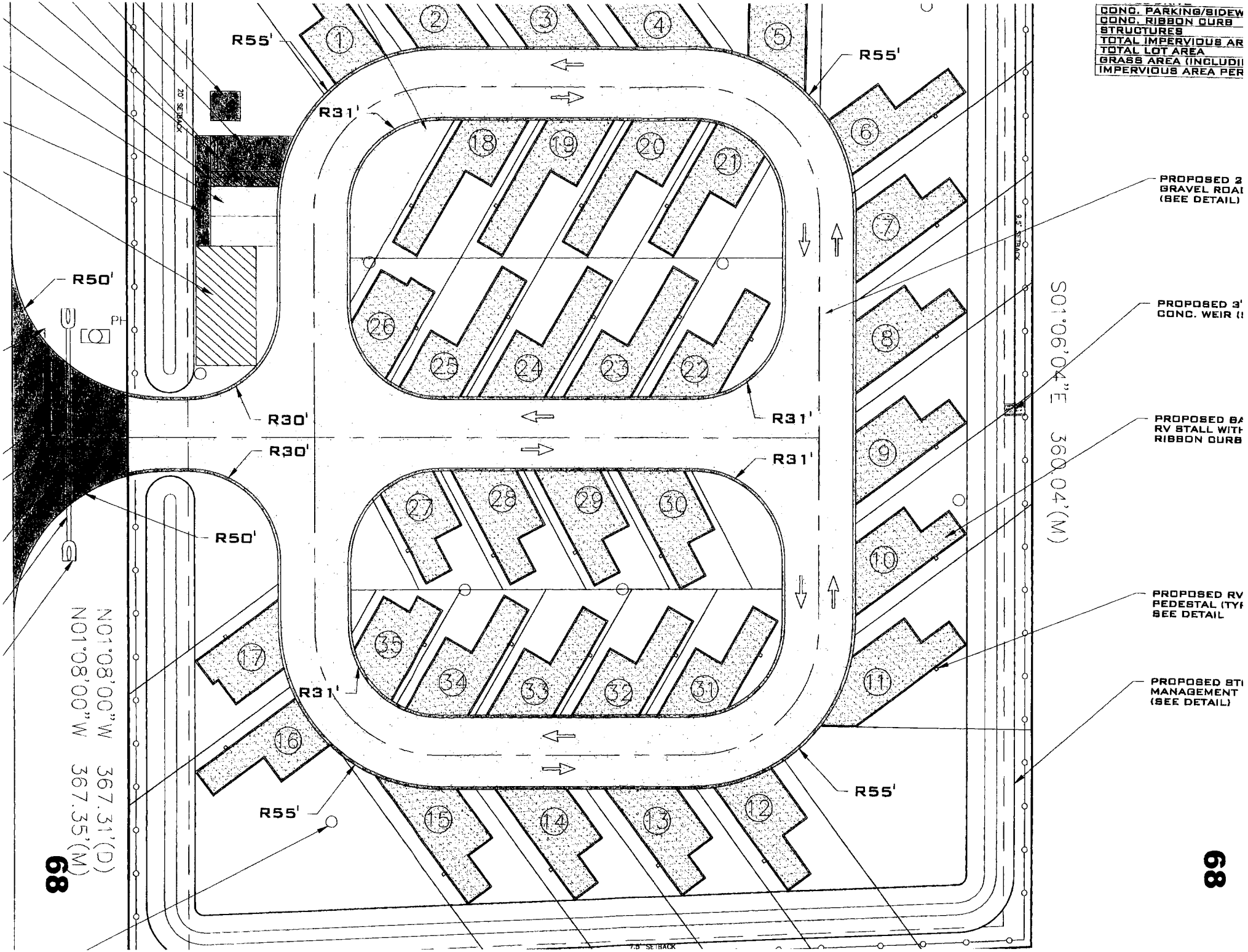
38. NEW OR ALTERED WA
INCLUDED IN THIS PR
ABOVE SURFACE WAT
SUPPORTED AND AND
DAMAGE AND FREEZI
REPAIR OR REPLACEM

39. NEW OR ALTERED WAT
INCLUDED IN THIS PR
UNDER SURFACE WAT
15 FEET IN WIDTH SH
RESTRAINED, WATERT
INCLUDE VALVES AT E
CROSSING SO THE UN
ISOLATED FOR TESTIN


N87°57'30"E 306.00'(M)
10.89
10.95
10.75
10.91
SRB
FND 5/8"
R/C #6475
10.87
10.96
10.46
10.78
TBM
SET NAIL IN PP
AT AN EL OF
12.90' NAVD 88
2.55AC.±
(VACANT)
10.78
10.99
S01°06'04"E 360.04'(M)
N01°08'00"W 367.31'(D)
N01°08'00"W 367.35'(M)
(BEARING BASE)
CONSERVATION
EASEMENT RECORDED
IN ORB 466, PAGE 31
TBM
SET NAIL IN PP
AT AN EL OF
14.13' NAVD 88
10.54
10.76
10.59
10.57
POB
10.69
SRB
FND 5/8"
R/C #6475
12.17
S86°35'41"W 240.21'(M)
11.85
S86°35'22"W 240.00'(D)
10.90
FND 5/8"
RB NO ID
S86°34'12"W
65.79'(M)
N01°08'00"W 200.00'(D)
CONSERVATION
EASEMENT RECORDED
IN ORB 466, PAGE 31
S86°35'22"W 325.10'(D)
N01°30'47"W 99.98'(D)
S86°35'22"W 665.73'(D)
STATE ROAD #386 (100'~R/W)(OPEN/PAVED)
BROKEN CENTERLINE
PAVED DRIVE
DIRT DRIVE
R/W
EP

66


PRE/POST DRAINAGE BASIN
2.55 ACRES
111,078 SF
DIRT
BROKEN CENTERLINE
STATE ROAD #366-(100'~R/W)(OPEN/PAVED)
PAVED DRIVE
15
14
13


CONC. PARKING/SIDEW
CONC. RIBBON CURB
STRUCTURES
TOTAL IMPERVIOUS AR
TOTAL LOT AREA
GRASS AREA (INCLUDI
IMPERVIOUS AREA PER
PROPOSED 2
GRAVEL ROA
(SEE DETAIL)
PROPOSED 3'
CONC. WEIR (
PROPOSED BA
RV STALL WITH
RIBBON CURB
PROPOSED RV
PEDESTAL (TYP
SEE DETAIL
PROPOSED STI
MANAGEMENT
(SEE DETAIL)
R55'
R31'
R50'
R30'
20' SETBACK
7.5' SETBACK
S01°06'04"E 360.04'(M)
N01°08'00"W 367.31'(D)
N01°08'00"W 367.35'(M)
PH
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
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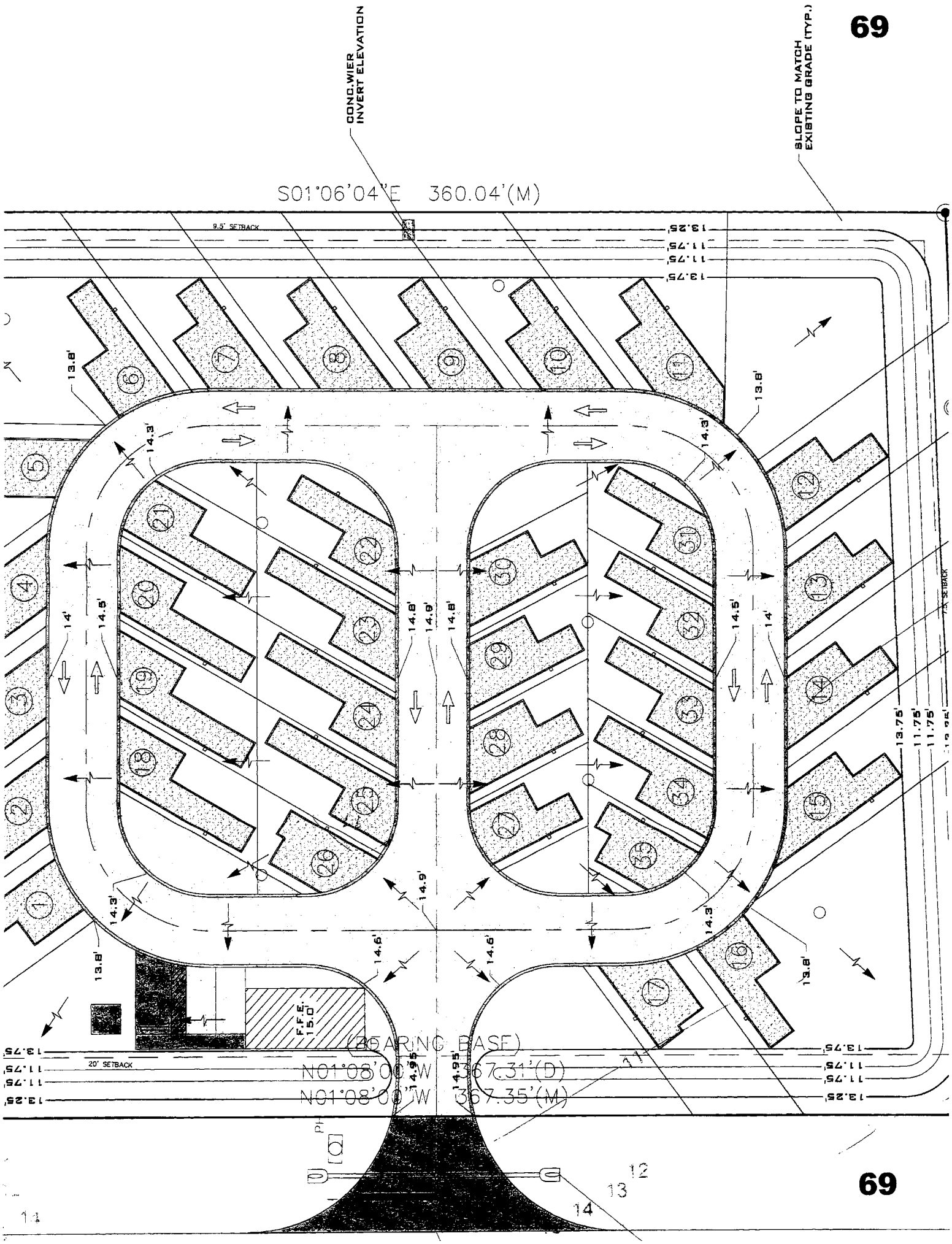
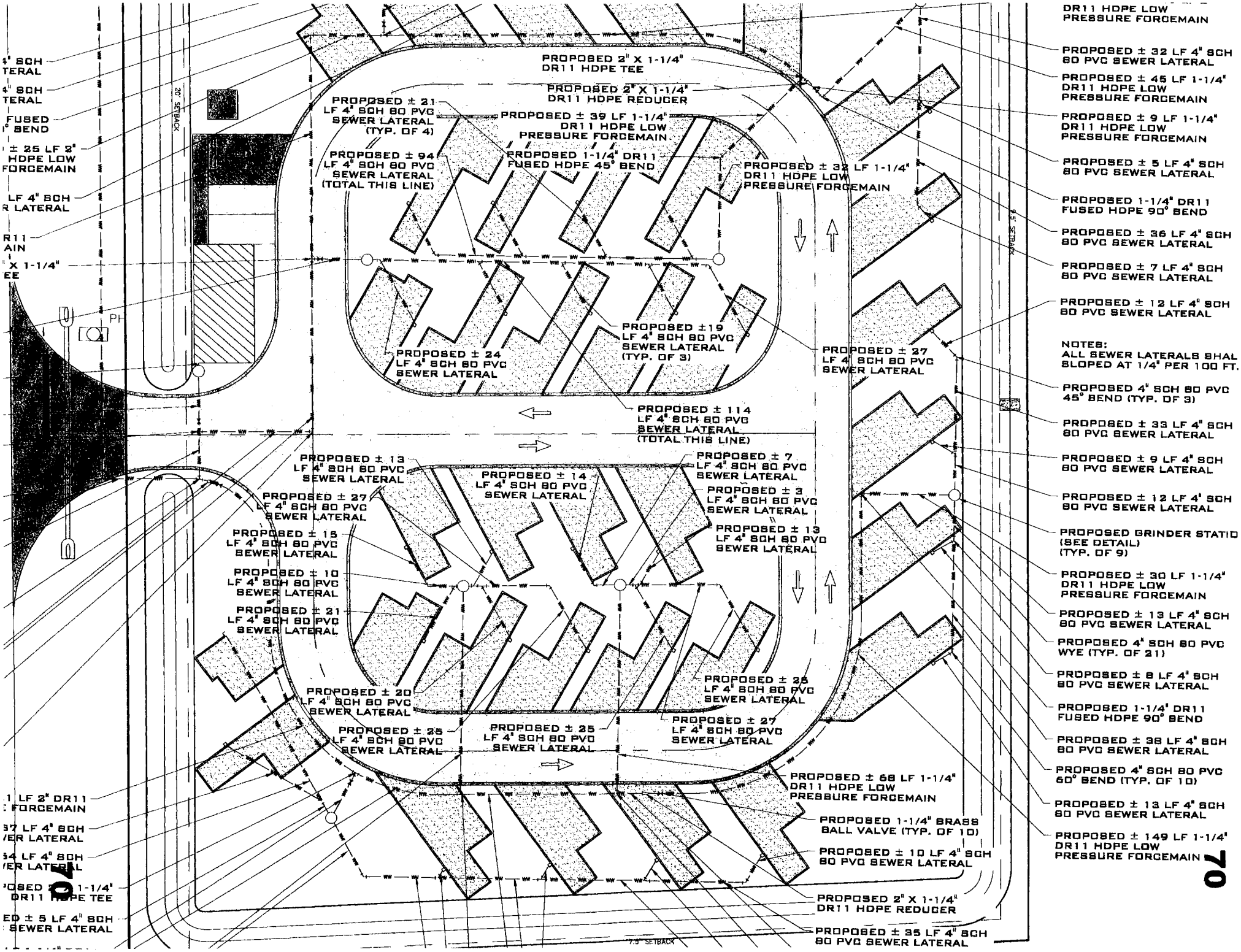
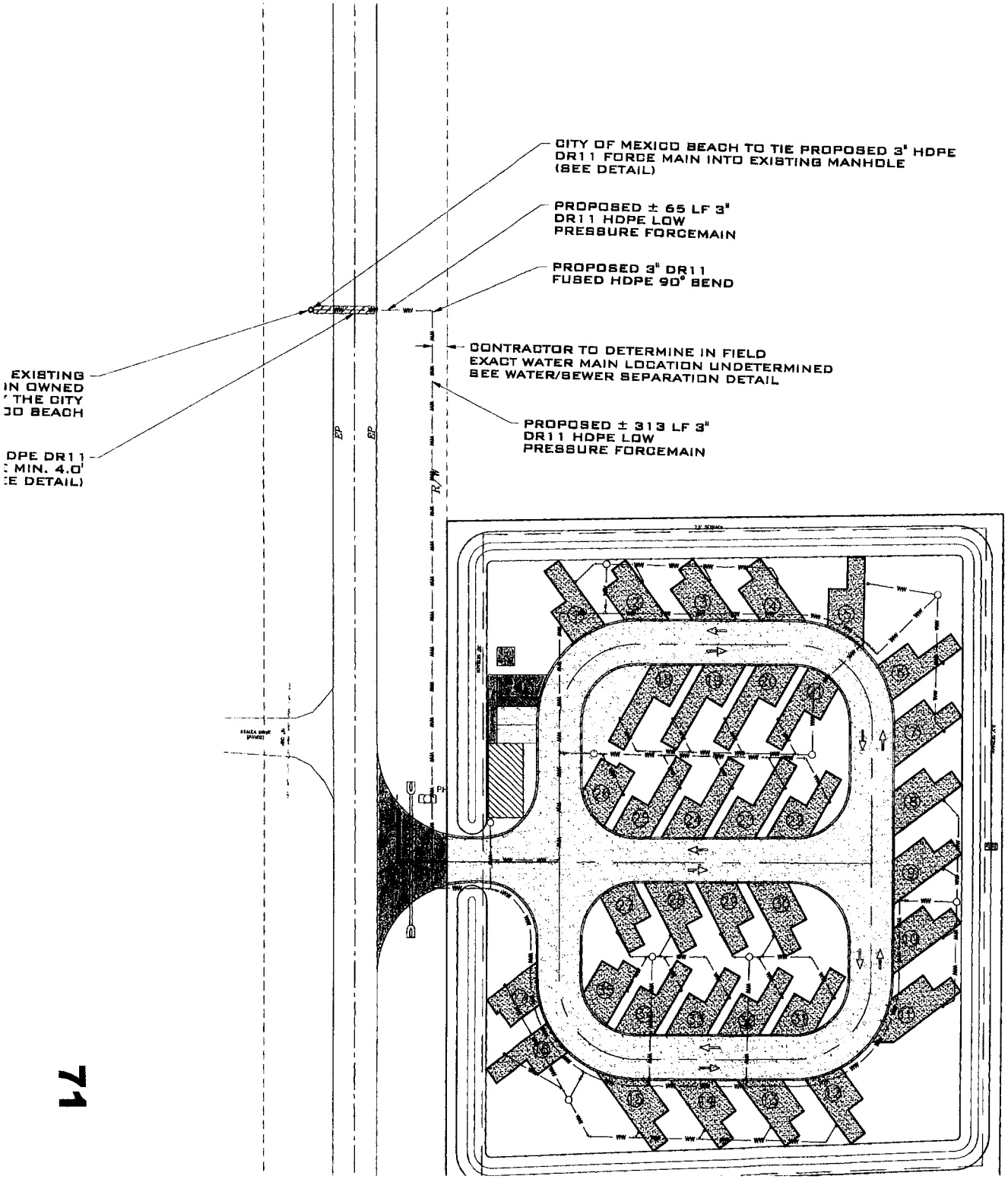
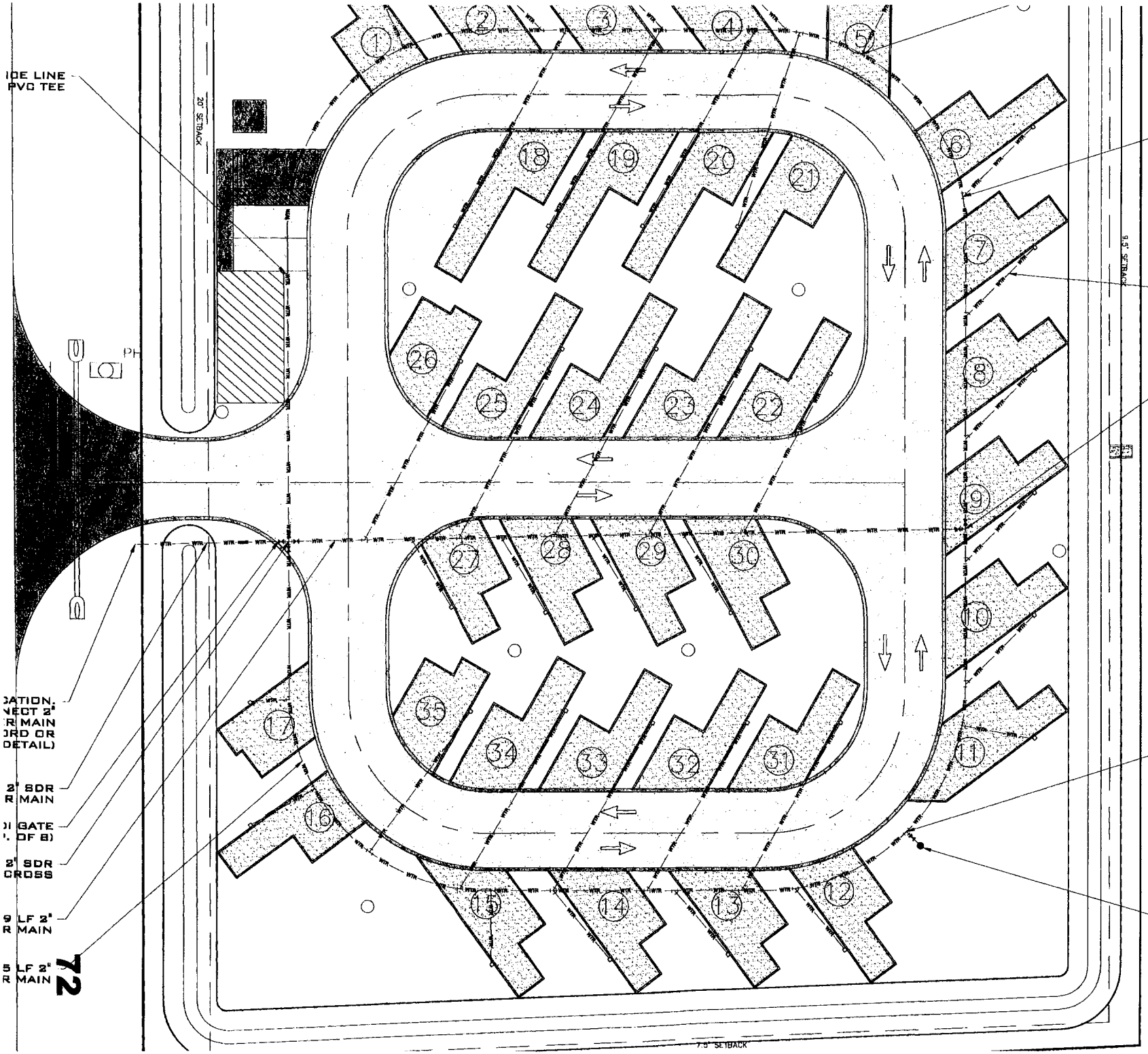

CONC.WIER
INVERT ELEVATION
SLOPE TO MATCH
EXISTING GRADE (TYP.)
S01°06'04"E 360.04'(M)
9.5' SETBACK
20' SETBACK
7.5' SETBACK
13.8'
14.3'
14'
14.5'
14.8'
14.9'
14.6'
13.75'
11.75'
13.25'
F.F.E.
15.0
(BEARING BASE)
N01°08'00"W 367.31'(D)
N01°08'00"W 367.35'(M)

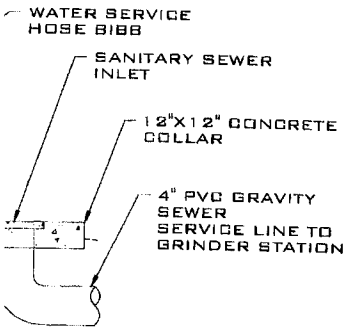

PROPOSED 2" X 1-1/4" DR11 HDPE TEE
PROPOSED 2" X 1-1/4" DR11 HDPE REDUCER
PROPOSED ± 21 LF 4" SCH 80 PVC SEWER LATERAL (TYP. OF 4)
PROPOSED ± 39 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ± 94 LF 4" SCH 80 PVC SEWER LATERAL (TOTAL THIS LINE)
PROPOSED 1-1/4" DR11 FUSED HDPE 45° BEND
PROPOSED ± 32 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ±19 LF 4" SCH 80 PVC SEWER LATERAL (TYP. OF 3)
PROPOSED ± 24 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 27 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 114 LF 4" SCH 80 PVC SEWER LATERAL (TOTAL THIS LINE)
PROPOSED ± 13 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 14 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 7 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 3 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 27 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 13 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 15 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 10 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 21 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 20 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 25 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 25 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 25 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 27 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 68 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED 1-1/4" BRASS BALL VALVE (TYP. OF 10)
PROPOSED ± 10 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED 2" X 1-1/4" DR11 HDPE REDUCER
PROPOSED ± 35 LF 4" SCH 80 PVC SEWER LATERAL
20' SETBACK
7.5' SETBACK
DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ± 32 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 45 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ± 9 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ± 5 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED 1-1/4" DR11 FUSED HDPE 90° BEND
PROPOSED ± 36 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 7 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 12 LF 4" SCH 80 PVC SEWER LATERAL
NOTES:
ALL SEWER LATERALS SHAL SLOPED AT 1/4" PER 100 FT.
PROPOSED 4" SCH 80 PVC 45° BEND (TYP. OF 3)
PROPOSED ± 33 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 9 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 12 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED GRINDER STATIO (SEE DETAIL) (TYP. OF 9)
PROPOSED ± 30 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED ± 13 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED 4" SCH 80 PVC WYE (TYP. OF 21)
PROPOSED ± 8 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED 1-1/4" DR11 FUSED HDPE 90° BEND
PROPOSED ± 38 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED 4" SCH 80 PVC 60° BEND (TYP. OF 10)
PROPOSED ± 13 LF 4" SCH 80 PVC SEWER LATERAL
PROPOSED ± 149 LF 1-1/4" DR11 HDPE LOW PRESSURE FORCEMAIN


CITY OF MEXICO BEACH TO TIE PROPOSED 3" HDPE DR11 FORCE MAIN INTO EXISTING MANHOLE (SEE DETAIL)
PROPOSED ± 65 LF 3" DR11 HDPE LOW PRESSURE FORCEMAIN
PROPOSED 3" DR11 FUSED HDPE 90° BEND
CONTRACTOR TO DETERMINE IN FIELD EXACT WATER MAIN LOCATION UNDETERMINED SEE WATER/SEWER SEPARATION DETAIL
PROPOSED ± 313 LF 3" DR11 HDPE LOW PRESSURE FORCEMAIN
EXISTING
IN OWNED
THE CITY
OD BEACH
DPE DR11
MIN. 4.0'
E DETAIL)
EP
EP
R/W

71

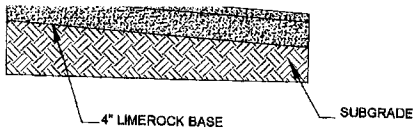

ICE LINE
PVC TEE
20' SETBACK
PH
PROPOSED 2" X 1/2" SDR
PVC 60° WYE (TYP. OF 26)
PROPOSED 1/2" RV LOT
WATER SERVICE LINE
VARYING LENGTHS
(TYP OF 35)
PROPOSED 2" SDR
32.5 PVC TEE
9.5' SETBACK
NOTES:
WTR = WATERMAIN
CATION.
NECT 2"
R MAIN
ORD OR
DETAIL)
2" SDR
R MAIN
GATE
. OF 8)
2" SDR
CROSS
9 LF 2"
R MAIN
5 LF 2"
R MAIN
PROPOSED 2" SDR
32.5 PVC TEE
PROPOSED FLUSHING
HYDRANT ASSEMBLY
(SEE DETAIL)
7.5' SETBACK

30AMP GRINDE
SEE ELECTRICA
SHEET C13 (TY
PROPOSED RV
(TYP OF 35) ELE
COORDINATE W
CONFLICTS WIT
LINES (SEE DET
9.5' SETBACK
7.5' SETBACK
20' SETBACK



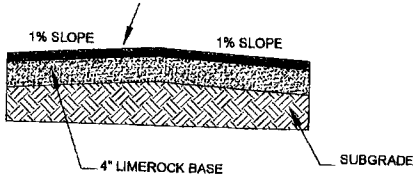
BE

AL DETAIL



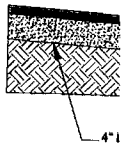
NOTES:
1. 12" COMPACTED SUBGRADE MIN L.B.R. 40. COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS ESTABLISHED BY ASTM T-99.
2. LIMEROCK BASE COURSE SHALL BE L.B.R. 100
3. A ½" BITUMINOUS EXPANSION JOINT SHALL BE CONSTRUCTED AT THE CONCRETE/ASPHALT CONNECTION LOCATION.
4. ⅛"-¼" CONTRACTION JOINTS SHALL BE PROVIDED EVERY 10'

2 / D1 CONCRETE DRIVEWAY DETAIL
N.T.S.



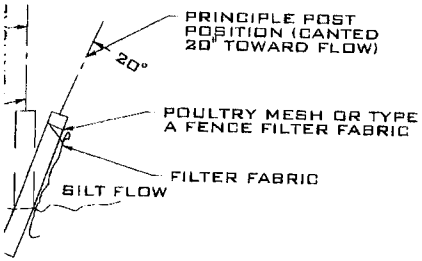
NOTES:
1. 12" COMPACTED SUBGRADE MIN L.B.R. 40. COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS ESTABLISHED BY ASTM T-99.
2. LIMEROCK BASE COURSE SHALL BE L.B.R. 100

3 / D1 GRAVEL ROADWAY DETAIL 1
N.T.S.



NOTES:
1. 12" COMPACTE
MAXIMUM DRY
2. LIMEROCK BAS

4 / D1 GRAVEL
N.T.S.



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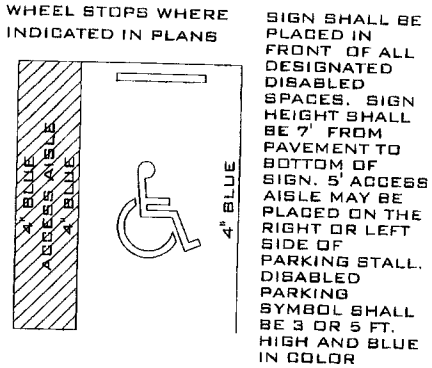
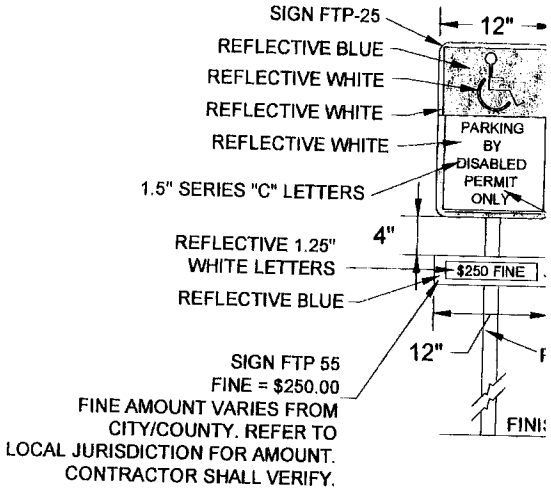


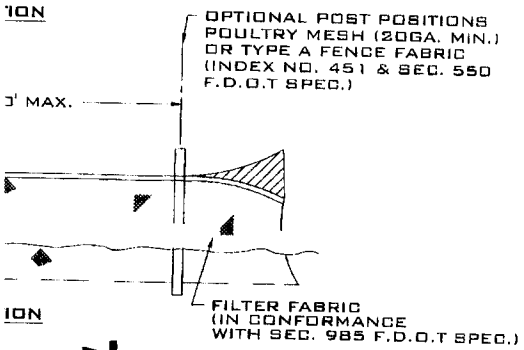
6 / D1 DISABLED PARKING STALL DETAIL
N.T.S.



SIGN NC

1. SIGN CONSTRUCT
AND PLACEMENT SH
WITH STATE AND LO

7 / D1 DISABLED PA
N.T.S.



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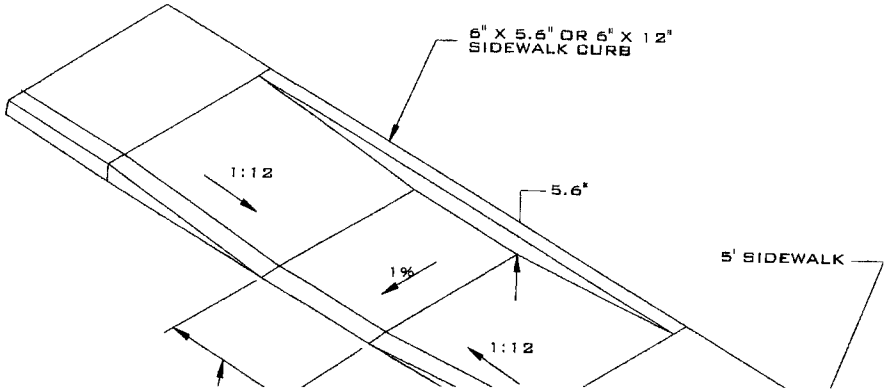
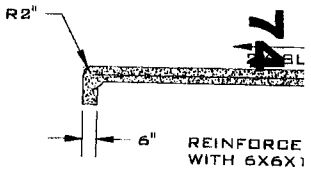
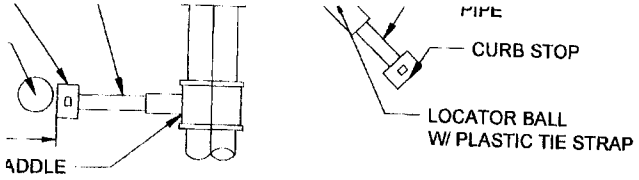
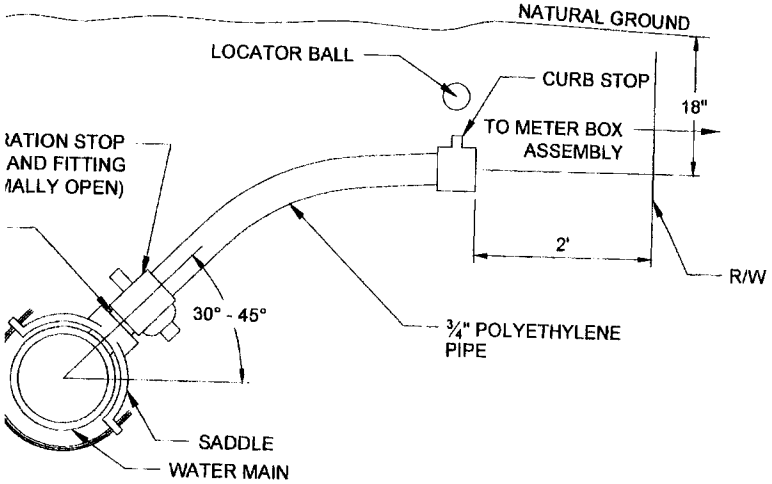
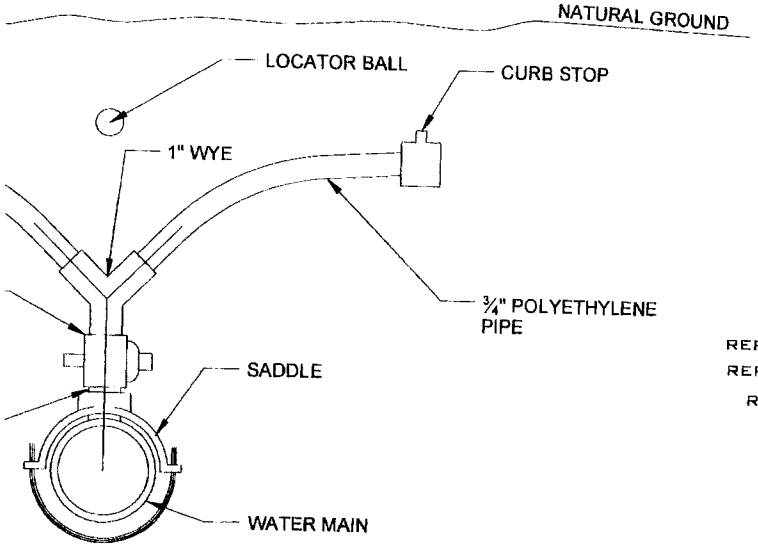
E IV SILT FENCE





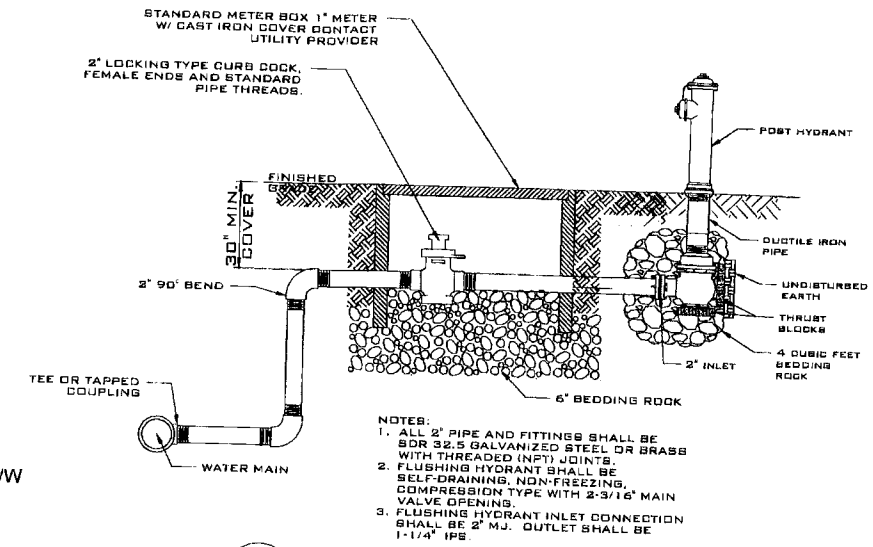






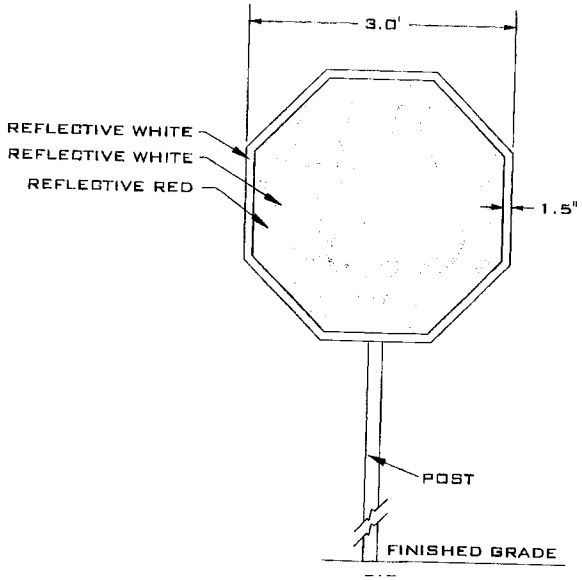
LL BE BRASS WITH COMPRESSION/ PACK JOINT TYPE

SHALL TERMINATE UNDER A DRIVEWAY.
IALL TERMINATE AT A CURB STOP WHICH SHALL BE
TELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY
2" x 18" STAKE WITH THE TOP PAINTED BLUE AND
UMBER OF THE LOT TO BE SERVED.
ALL PROVIDE LOCATOR BALLS W/ PLASTIC TIE STRAPS.
OULD BE SECURED TO LATERAL W/ TIE STRAP.



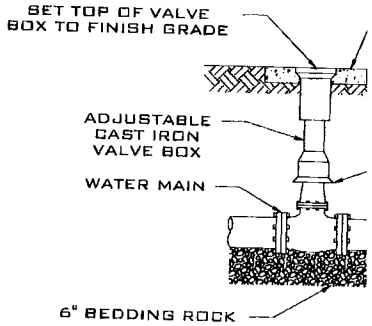
NOTES:
1. ALL 2" PIPE AND FITTINGS SHALL BE SDR 32.5 GALVANIZED STEEL OR BRASS WITH THREADED (NPT) JOINTS.
2. FLUSHING HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH 2-3/16" MAIN VALVE OPENING.
3. FLUSHING HYDRANT INLET CONNECTION SHALL BE 2" MJ. OUTLET SHALL BE 1-1/4" IPS.

2 / D2 FLUSHING HYDRANT DETAIL
N.T.S.



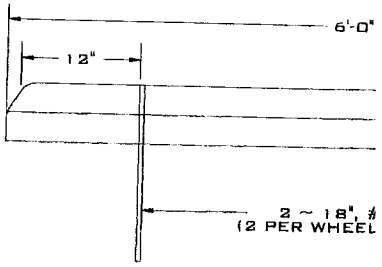
NOTES:
1. P.E. TUBING IS TO
HAND UP TO THE
SERVICE.
2. SERVICE LATERAL
PRIOR TO FINAL P

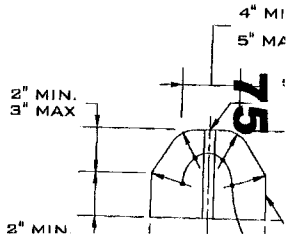
4 / D2 METER BOX
N.T.S.

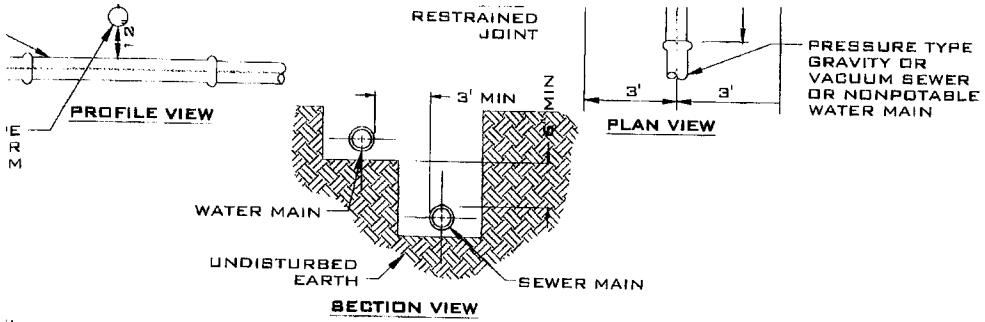


NOTES:
1. PVC EXTENSIONS SHALL N
INSTALLATION.
2. THE ACTUATING NUT FOR
EXTENDED TO COME UP TO
FINISHED GRADE.

5 / D2 VALVE AND E
N.T.S.

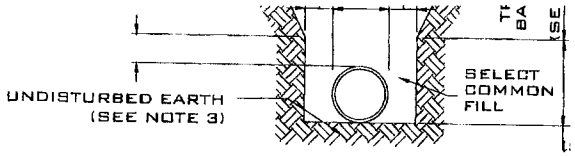






E MINIMUM HORIZONTAL DISTANCE BETWEEN THE OUTSIDE OF A WATER MAIN AND MAIN SHALL BE 6' WITH A PREFERRED 10' SEPARATION.
HERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT 6 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN.
ORIZONTAL SEPARATION SHALL BE NO LESS THAN 3'.
HEN A SEWER MAIN AND A WATER MAIN CROSS, THE WATERMAIN SHOULD BE A NIMUM OF 18" ABOVE OR BELOW THE SEWER.
R ALL PIPE CROSSINGS, THE PIPE JOINTS SHALL BE ARRANGED SO THAT ALL PIPE S ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN SIX FEET EN ANY TWO JOINTS.
THE HORIZONTAL OR VERTICAL CLEARANCE LISTED HEREIN CANNOT BE ACHIEVED WATERMAIN CAN BE ENCASED IN 4" OF CONCRETE.

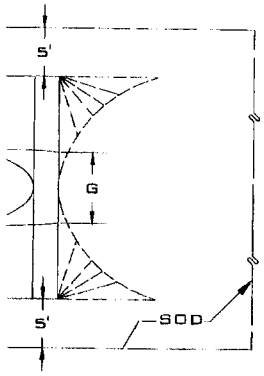
1 / D3 WATER/SEWER SEPARATION DETAILS
N.T.S.



NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COM OF THE MAXIMUM DENSITY AS PER AASHT
2. TRENCH BACKFILL: COMMON FILL COMPAC THE MAXIMUM DENSITY AS PER AASHTO T-
3. PIPE BEDDING UTILIZING SELECT COMMON ROCK WILL BE REQUIRED IFOVER-EXCAVATI
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THA MAX. FOR PIPE DIAMETER 24" AND LARGE
5. WATER SHALL NOT BE PERMITTED IN THE T CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FAC THE DIRECTION OF THE FLOW.
7. PROVIDE TRENCH SLOPING AND BRACING A SAFETY.
8. FINAL RESTORATION IN IMPROVED AREAS S COMPLIANCE WITH ALL APPLICABLE REG GOVERNING AGENCIES. SURFACE RESTO PAVED AREAS SHALL COMPLY WITH THE RE OF THE ROAD CONSTRUCTION SPECIFIC

2 / D3 TRENCH AND BACKFILL
N.T.S.

OR ROUND CORNERS



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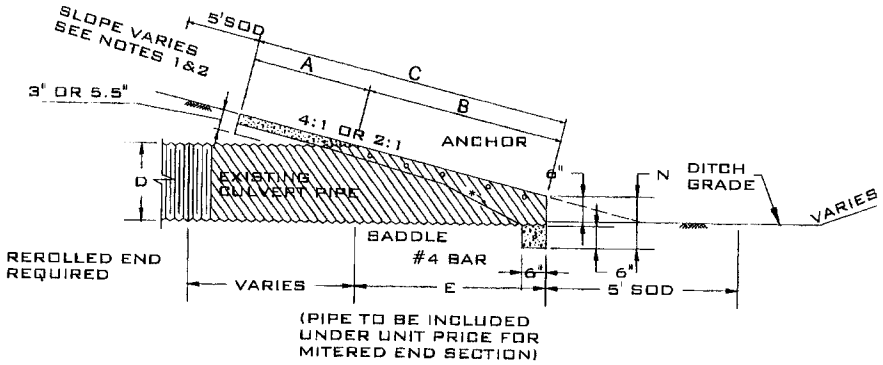
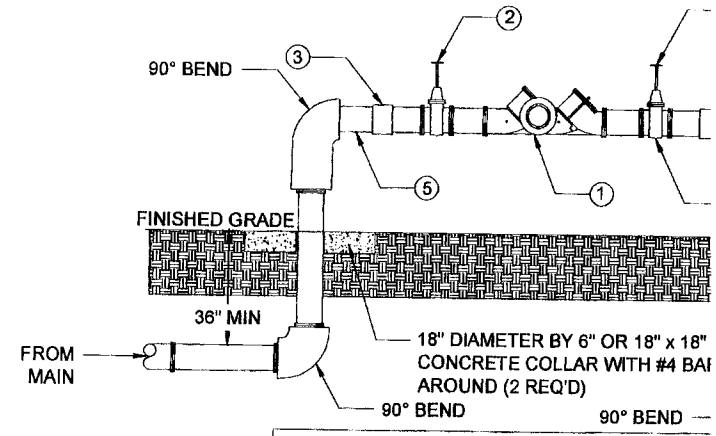


SECTION

*SLOPE:
4:1 MITER: TO | PIPE FOR PIPES 18" AND SMALLER. 2:1 FOR PIPES 24" AND LARGER.
2:1 MITER: TO | PIPE FOR PIPES 18" AND SMALLER. 1:1 FOR PIPES 24" AND LARGER.

DIMENSIONS AND QUANTITIES

F	76	M				N	5 1/2" CONCRETE SLAB (CY)				SODDING (SQ. YDS.)			
		SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE		SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE	SINGLE PIPE	DOUBLE PIPE	TRIPLE PIPE	QUAD. PIPE
4.0'	0.58'	3.75'	5.75'	7.75'	9.75'	1.04'	0.52	0.90	1.22	1.54	7	8	8	9
5.0'	0.81'	3.92'	6.08'	8.25'	10.41'	1.04'	0.49	0.99	1.34	1.70	7	8	9	10
7.0'	1.23'	4.33'	6.92'	9.50'	12.08'	1.04'	0.64	1.00	1.35	1.71	8	9	10	11



MATERIALS	
ITEM	DESCRIPTION
1	2" BACKFLOW PREVENTER
2	2" GATE VALVE
3	2" UNION
4	2" TEST COCKS
5	2" THREADED NIPPLE

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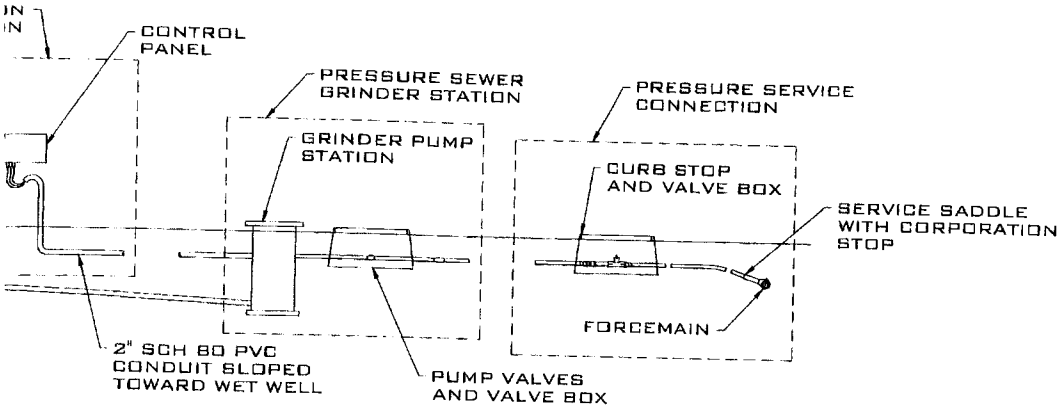
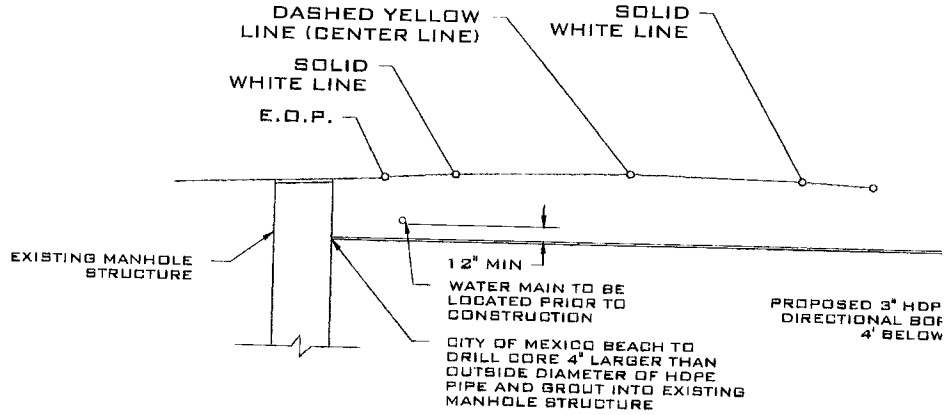
NOTES:
1. UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE M PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWA METER.
2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE FITTINGS, AND MOU



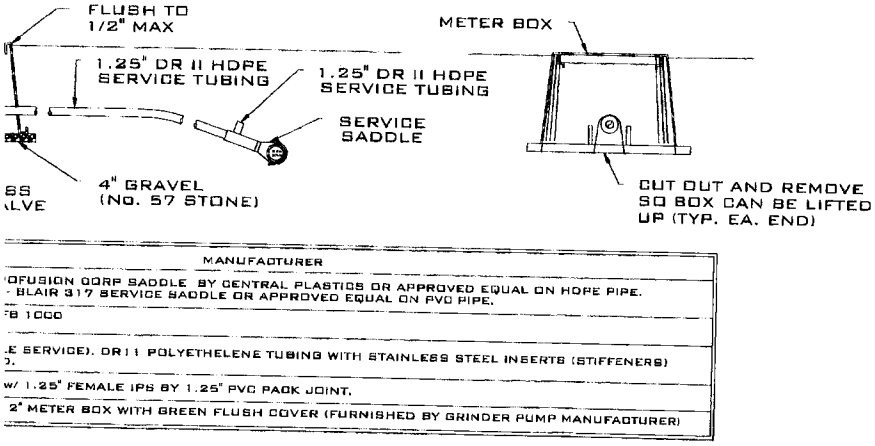
ICAL GRINDER STATION INSTALLATION

i.



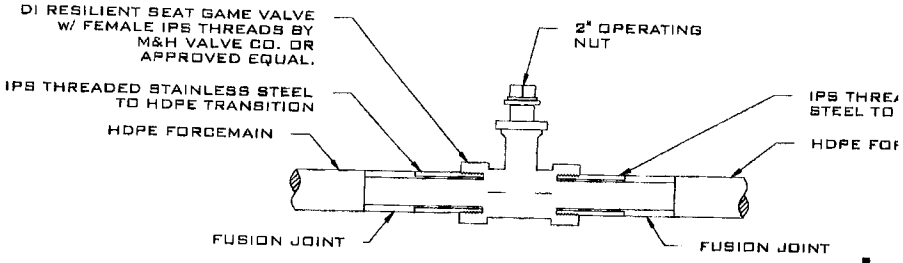
2 / D4 DIRECTIONAL BORE & MANHOLE CONNEC

N.T.S.



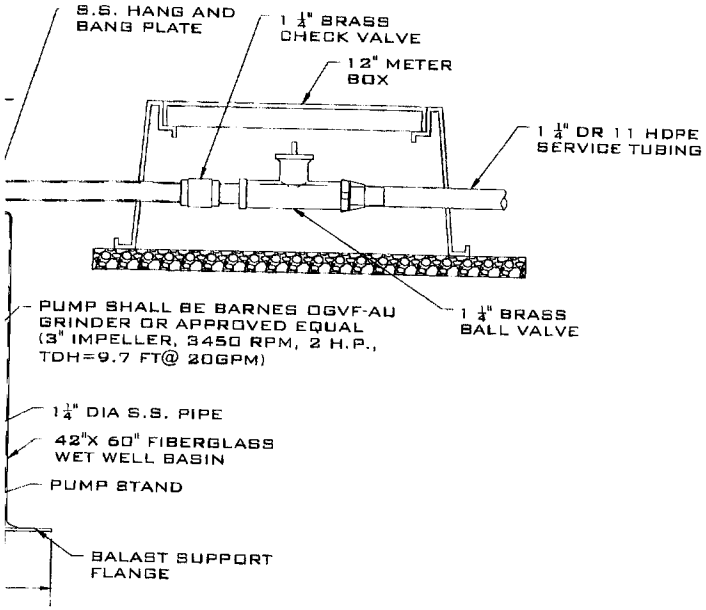
MANUFACTURER
OFUSION CORP SADDLE BY CENTRAL PLASTICS OR APPROVED EQUAL ON HDPE PIPE. - BLAIR 317 SERVICE SADDLE OR APPROVED EQUAL ON PVC PIPE.
B 1000
E SERVICE). DR11 POLYETHELENE TUBING WITH STAINLESS STEEL INSERTS (STIFFENERS)
w/ 1.25" FEMALE IPS BY 1.25" PVC PACK JOINT.
2" METER BOX WITH GREEN FLUSH COVER (FURNISHED BY GRINDER PUMP MANUFACTURER)

SURE SEWER SERVICE CONNECTION



4 / D4 2" & 3" GATE VALVE

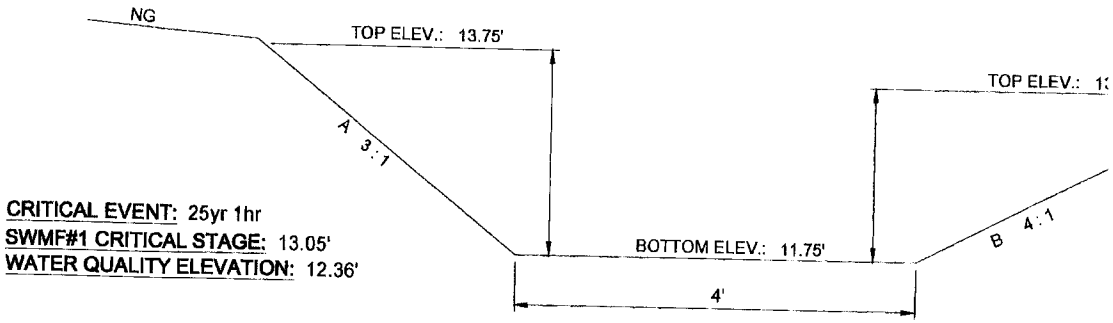
N.T.S.



CHEDULE 40 1 ¼" STAINLESS

BUILT TO THE LATEST

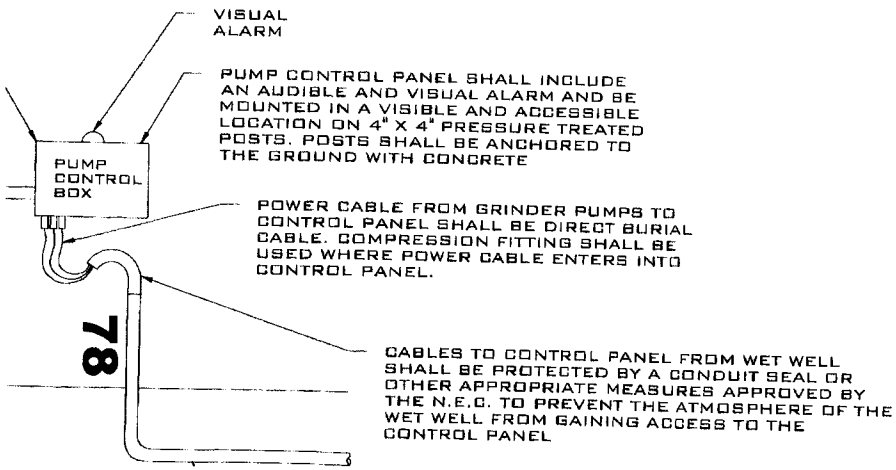
TE FROM THE WET WELL, WILL NOT BE ACCEPTED. TO ENSURE THAT THE

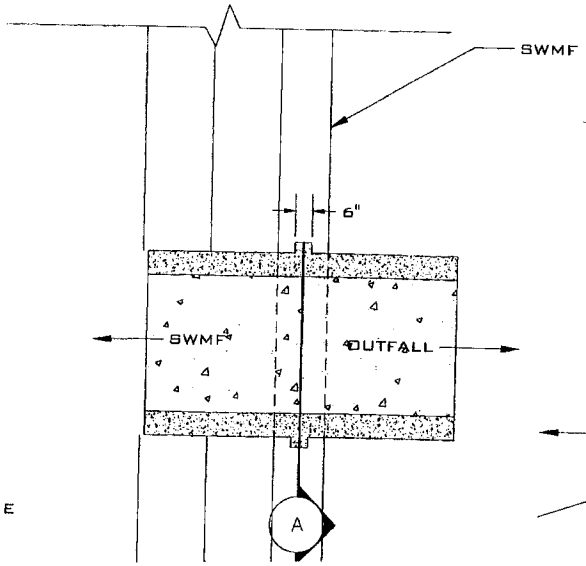


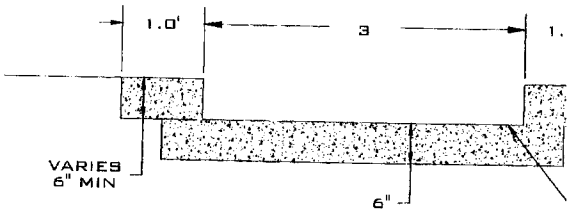
CRITICAL EVENT: 25yr 1hr
SWMF#1 CRITICAL STAGE: 13.05'
WATER QUALITY ELEVATION: 12.36'

2 / D5 **STORMWATER MANAGEMENT FACILITY SECTIC**
N.T.S.

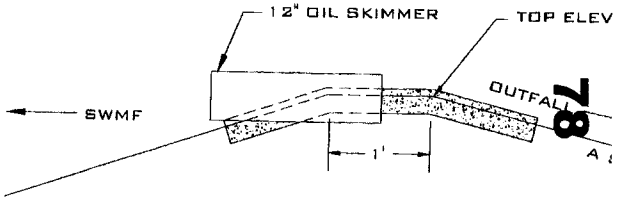
DER STATION







SECTION A



PROFILE

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FILED FOR RECORD
REBECCA L. NORRIS
CLERK OF CIRCUIT COURT
GULF COUNTY, FLORIDA
14 SEP -3 PM 12: 15

In re: Petition for approval of revised underground distribution tariffs, by Duke Energy Florida, Inc.	DOCKET NO. 140067-EI ORDER NO. PSC-14-0442-CO-EI ISSUED: August 25, 2014

CONSUMMATING ORDER

BY THE COMMISSION:

By Order No. PSC-14-0396-TRF-EI, issued July 31, 2014, this Commission proposed to take certain action, subject to a Petition for Formal Proceeding as provided in Rule 25-22.029, Florida Administrative Code. No response has been filed to the order, in regard to the above mentioned docket. It is, therefore,

ORDERED by the Florida Public Service Commission that Order No. PSC-14-0396-TRF-EI has become effective and final. It is further

ORDERED that this docket shall be closed.

By ORDER of the Florida Public Service Commission this 25th day of August, 2014.

/s/ Carlotta S. Stauffer
CARLOTTA S. STAUFFER
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399
(850) 413-6770
www.floridapsc.com

Copies furnished: A copy of this document is provided to the parties of record at the time of issuance and, if applicable, interested persons.

JSC

INFORMATION
DATE 9/9/14

NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any judicial review of Commission orders that is available pursuant to Section 120.68, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for judicial review will be granted or result in the relief sought.

Any party adversely affected by the Commission's final action in this matter may request judicial review by the Florida Supreme Court in the case of an electric, gas or telephone utility or the First District Court of Appeal in the case of a water and/or wastewater utility by filing a notice of appeal with the Office of Commission Clerk and filing a copy of the notice of appeal and the filing fee with the appropriate court. This filing must be completed within thirty (30) days after the issuance of this order, pursuant to Rule 9.110, Florida Rules of Appellate Procedure. The notice of appeal must be in the form specified in Rule 9.900(a), Florida Rules of Appellate Procedure.