SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 47-00652-P
DATE ISSUED:May 6, 2008

Form #0941
08/95

PERMITTEE: OKEECHOBEE COUNTY
304 N W 2ND AVENUE ROOM 109
OKEECHOBEE, FL 34792

PROJECT DESCRIPTION: Construction and operation of an 8.25-acre surface water management system to serve a 150 acre project known as Douglas Park Drainage Improvements, Phase 2.

PROJECT LOCATION: OKEECHOBEE COUNTY, SEC 15 TWP 37S RGE 35E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 080314-2, dated March 14, 2008. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 15 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 6th day of May, 2008, in accordance with Section 120.60(3), Florida Statutes.

BY: _____
Gary J. Ritter
Interim Service Center Director
Okeechobee Service Center

Certified mail number 7155 5474 4100 4816 6950

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373. F.S.

2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.

6. Within 30 days after completion of construction of the permitted activity, the permitee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit

GENERAL CONDITIONS

Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..

12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.

14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit

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application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.

19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on May 6, 2013.

2. Operation of the surface water management system shall be the responsibility of the permittee.

3. Discharge Facilities:

   1-8.46" W X 24" H X 20 deg. V-NOTCH with invert at elev. 19.5' NGVD 29.
   1-3' W X 4.5' L drop inlet with crest at elev. 23.6' NGVD 29.
   Receiving body : NE 5th Street Ditch
   Control elev : 19.5 feet NGVD 29.

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.

5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.

6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.

7. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.

8. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

9. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.

10. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

11. The permittee acknowledges, that pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.

12. The District reserves the right to require remedial measures to be taken by the permittee if monitoring or other information demonstrates that adverse impacts to onsite or offsite wetlands, upland conservation areas or buffers, or other surface waters have occurred due to project related activities.

13. Silt fencing shall be installed at the limits of construction to protect from silt and sediment deposition during the construction of the project. A floating turbidity barrier shall be installed during the construction of the final discharge structure into the adjacent canal/water body. The silt fencing and the turbidity barrier shall be installed in accordance with "Florida Land Development Manual" Chapter 6 "Stormwater and Erosion and Sediment Control Best Management Practices for Developing Areas" and Exhibit No. 2. The sediment controls shall be installed prior to the commencement of any clearing or construction and the installation must be inspected by the District's Environmental Resource Compliance staff. The silt fencing

SPECIAL CONDITIONS

and turbidity barriers shall remain in place and be maintained in good functional condition until all adjacent construction activities have been completed and all fill slopes have been stabilized. Upon completion of the project and the stabilization of the fill, the permittee shall contact the District's Environmental Resource Compliance staff to inspect the site and approve the removal of the silt fencing and turbidity barriers.

14. The authorization for construction of the surface water management system is issued pursuant to the water quality net improvement provisions referenced in Rule Section 40E-4.303(1), Florida Administrative Code; therefore, the state water quality certification is waived.

15. The exhibits and special conditions in this permit apply only to this application. They do not supersede or delete any requirements for other applications covered in Permit No.47-00652-P unless otherwise specified herein.

40E-4.321 Duration of Permits.

(1) Unless revoked or otherwise modified the duration of an environmental resource permit issued under this chapter or Chapter 40E-40, F.A.C., is as follows:

(a) For a conceptual approval, two years from the date of issuance or the date specified as a condition of the permit, unless within that period an application for an individual or standard general permit is filed for any portion of the project. If an application for an environmental resource permit is filed, then the conceptual approval remains valid until final action is taken on the environmental resource permit application. If the application is granted, then the conceptual approval is valid for an additional two years from the date of issuance of the permit. Conceptual approvals which have no individual or standard general environmental resource permit applications filed for a period of two years shall expire automatically at the end of the two year period.

(b) For a conceptual approval filed concurrently with a development of regional impact (DRI) application for development approval (ADA) and a local government comprehensive plan amendment, the duration of the conceptual approval shall be two years from whichever one of the following occurs at the latest date:

1. The effective date of the local government's comprehensive plan amendment,

2. The effective date of the local government development order,

3. The date on which the District issues the conceptual approval, or 4. The date on which the District issues a final order pertaining to the resolution of any Section 120.57, F.S., administrative proceeding or other legal appeals.

(c) For an individual or standard general environmental resource permit, the construction phase authorizing construction, removal, alteration or abandonment of a sys-tem shall expire five years from the date of issuance or such amount of time as made a condition of the permit.

(d) For an individual or standard general environmental resource permit, the operational phase of the permit is perpetual for operation and maintenance.

(e) For a noticed general permit issued pursuant to Chapter 40E-400, F.A.C., five years from the date the notice of intent to use the permit is provided to the District.

(2)(a) Unless prescribed by special permit condition, permits expire automatically according to the timeframes indicated in this rule. If application for extension is made by electronic mail at the District's e-Permitting website or in writing pursuant to subsection (3), the permit shall remain in full force and effect until:

1. The Governing Board takes action on an application for extension of an individual permit, or

2. Staff takes action on an application for extension of a standard general permit.

(b) Installation of the project outfall structure shall not constitute a vesting of the permit.

(3) The permit extension shall be issued provided that a permittee files a written request with the District showing good cause prior to the expiration of the permit. For the purpose of this rule, good cause shall mean a set of extenuating circumstances outside of the control of the permittee. Requests for extensions, which shall include documentation of the extenuating circumstances and how they have delayed this project, will not be accepted more than 180 days prior to the expiration date.

(4) Substantial modifications to Conceptual Approvals will extend the duration of the Conceptual Approval for two years from the date of issuance of the modification. For the purposes of this section, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantially different water resource or environ-mental impacts which require a detailed review.

(5) Substantial modifications to individual or standard general environmental resource permits issued pursuant to a permit application extend the duration of the permit for three years from the date of issuance of the modification. Individual or standard general environmental resource permit modifications do not extend the duration of a conceptual approval.

(6) Permit modifications issued pursuant to paragraph 40E-4.331(2)(b), F.A.C.(letter modifications) do not extend the duration of the permit.

(7) Failure to complete construction or alteration of the surface water management system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization in order to continue construction unless a permit extension is granted.

Specific Authority 373.044, 373.113, 668.003, 668.004, 668.50 FS. Law Implemented373.413, 373.416, 373.419, 373.426, 668.003, 668.004, 668.50 FS. History-New 9-3-81,Amended 1-31-82, 12-1-82, Formerly 16K-4.07(4), Amended 7-1-86, 4-20-94, 10-3-95,5-28-00, 10-1-06.

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does <u>not</u> constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office.** An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing
Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose to the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District's Governing Board takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation
The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW
Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

Last Date For Agency Action: 13-MAY-2008

GENERAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Douglas Park Drainage Improvements, Phase 2

Permit No.: 47-00652-P

Application No.: 080314-2

Application Type: Environmental Resource (General Permit Modification)

Location: Okeechobee County, S15/T37S/R35E

Permittee : Okeechobee County

Operating Entity : Okeechobee County

Project Area: 8.25 acres

Project Land Use: Government

Drainage Basin: S-133

Receiving Body: Taylor Creek **Class:** CLASS III

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT PURPOSE:

This application is a request for a modification of an Environmental Resource Permit to authorize construction and operation of an 8.25-acre surface water management system to serve an existing 150-acre subdivision known as Douglas Park Drainage Improvements, Phase 2. Staff recommends approval with conditions.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The site is located in unincorporated Okeechobee County within an existing subdivision known as Douglas Park. The subdivision is a mix of commercial and residential uses and is located north of State Road 70, 0.3 miles east of Taylor Creek. The CSX railroad runs diagonally through the area. There are no wetlands or other surface waters located within or affected by the proposed project.

PROJECT BACKGROUND:

On January 6, 2005, the District authorized construction and operation of improvements to an existing surface water system and operation of the remaining surface water management system. Phase 1 authorized the installation of three 8-foot diameter vortex water quality devices in Basin 2. The structures were designed as "off line" devices with bypass weirs to pass heavier rainfall events. Special Condition 13 of the permit for Phase 1 (Application 040604-15) required the applicant to submit for a permit modification identifying how and where the required water quality treatment for Basin 3 would be provided.

Basin 1 is the Okeechobee Commerce Park (47-00638-P).
Basin 2 is the area bordered by the CSX Railroad, NE 13th Avenue, NE Alberta, and NE 17th Street.
Basin 3 is the area bordered by State Road 70, NE 13th Avenue, the CSX Railroad, and NE 17th Street.
Basin 4 included the area south of the CSX Railroad between Taylor Creek and NE 13th Street.

PROPOSED PROJECT:

This application is a request to modify the previously permitted stormwater management system to include a 2.39-acre dry detention pond within Basin 3 and connect the previously permitted stormwater collection systems on NE 2nd to the new pond as well as constructing a new stormwater collection system on NE 5th Street. In Basin 2, portions of existing ditches along NE 9th and NE 13th Streets will replaced with pipes and swales.

Details of the improvements within the right-of-ways are summarized below.

Within the NE 2nd Street right-of-way, the existing catch basins between NE 14th Avenue and NE 19th Terrace will be connected by culverts to increase the effectiveness of the stormwater conveyance system. The existing swales between NE 15th and NE 16th Avenue will be regraded to a uniform, maintainable cross-section. The NE 2nd Street system will be connected to the NE 14th Avenue system, which will discharge into the proposed dry detention pond via a bubble up structure.

Within the NE 5th Street right-of-way, a new stormwater collection system will be installed consisting of a series of catch basin interconnected by pipes. This system will connect to the proposed dry detention system via a bubble-up structure.

Within the NE 9th Street right-of-way, the existing catch basins, which were permitted with Phase 1, will be connected with pipe. The existing deep ditches will be regraded to a uniform, maintainable cross-section.

Within the NE 13th Street right-of-way, the existing catch basins, which were permitted with Phase 1, will be connected with pipe.

All improvements within this phase of construction will be constructed as funding allows.

WATER QUANTITY :

Discharge Rate :

No adverse discharge impacts are anticipated as a result of the proposed project. The project falls within the S-133 Basin which has an allowable discharge rate of 15.6 cubic feet per second per square mile (csm).

Discharge Storm Frequency : 25 YEAR-3 DAY Design Rainfall : 9 inches

Basin	Allow Disch (cfs)	Method Of Determination	Peak Disch (cfs)	Peak Stage (ft, NGVD 29)
Basin 2 (North)	51.5	Previously Permitted	45.2	23.4
Basin 3 (South)	18.16	Previously Permitted	17.45	25.6

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
Basin 2 (North)	76.50	19.5		Previously Permitted
Basin 3 (South)	73.50	19.5		Previously Permitted

Receiving Body :

Basin	Str.#	Receiving Body
Basin 2 (North)	CS-6	NE 5th Street Ditch

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NGVD 29)

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
Basin 2 (North)	CS-6	1	V-Notch	8.46"	24"			20 deg.	19.5

Inlets:

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
Basin 2 (North)	CS-6	1	Fdot Mod E Drop Inlet	3'	4.5'		23.6

WATER QUALITY :

No adverse water quality impacts are anticipated as a result of the proposed project. As required by the original permit, water quality treatment will be provided for the first inch of runoff. This application will provide an additional 6.4 ac-ft of water quality treatment in Basin 3. The storm water management system also flows through dry swales along roadways prior to discharge off-site, which provides additional water quality treatment prior to discharge. A minor amount of the existing storage volume will be lost due to the regrading of the existing swales and ditches.

Erosion and turbidity control measures will be installed prior to the commencement of construction as indicated in Special Condition 13 of this permit. Silt screens or other turbidity measures will be installed in all discharge ditches and around the limits of construction for the project.

Basin		Treatment Method	Vol Req.d (ac-ft)	Vol Prov'd
Basin 3 (South)	Treatment	Dry Detention	6.1	6.4

WETLANDS:

Wetland Description:

There are no State jurisdicational wetlands within the project area. One cypress-dominated wetland is located off-site to the south of the proposed dry detention area and existing drainage ditches border the detention area's west and south sides.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that irrigation is not required for this project. The applicant has indicated that dewatering is not required for construction of this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation, unless the work qualifies for a No-Notice Short-Term Dewatering permit pursuant to Chapter 40E-20.302(3) or is exempt pursuant to Section 40E-2.051, FAC.

CERP:

As part of the review of the original permit, Environmental Resource Regulation staff coordinated review of this project with the Lake Okeechobee Watershed Region Project Manager, who determined that the project was not incompatible with future restoration goals for this CERP project as currently envisioned.

Potable Water Supplier:

Not applicable.

Waste Water System/Supplier:

Not applicable.

Right-Of-Way Permit Status:

A Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Water Preserve Area:

This project is located within the Lake Okeechobee Watershed

Historical/Archeological Resources:

No information has been received that indicates the presence of archaeological or historical resources or that the proposed activities could cause adverse impacts to archaeological or historical resources.

DCA/CZM Consistency Review:

The District has not received a finding of inconsistency from the Florida Department of Environmental Protection or other commenting agencies regarding the provisions of the federal Coastal Zone Management Plan.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

NATURAL RESOURCE MANAGEMENT:

Stephanie E Raymond

for Melinda Parrott

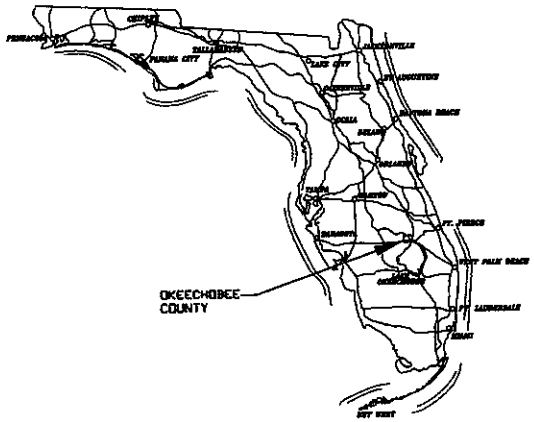
DATE: 5/5/08

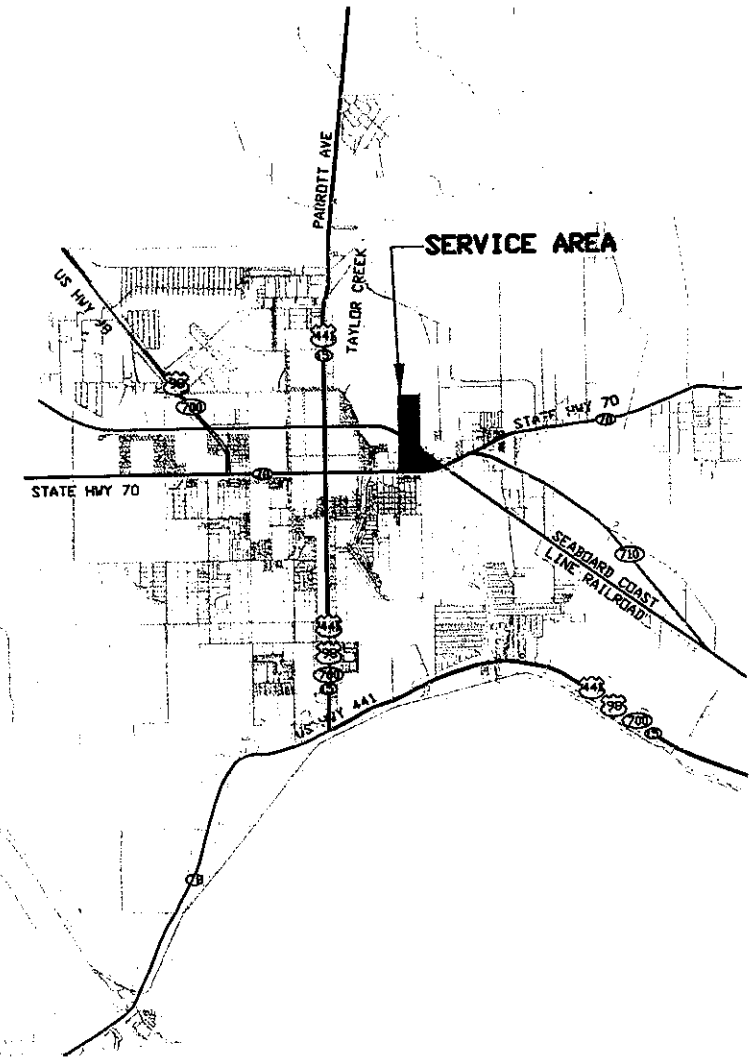
SURFACE WATER MANAGEMENT:

Kelly Cranford, P.E.

DATE: 5/2/08

EXHIBIT A
LOCATION MAP





SCALE: N.T.S.

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 West McNab Road - Pompano Beach
Florida 33069 (954) 782-8222
FAX: (954) 786-8927 E-Mail:casassoc@craigasmith.com

EXHIBIT 1
APPLICATION 080314-2
Page 1 of 1

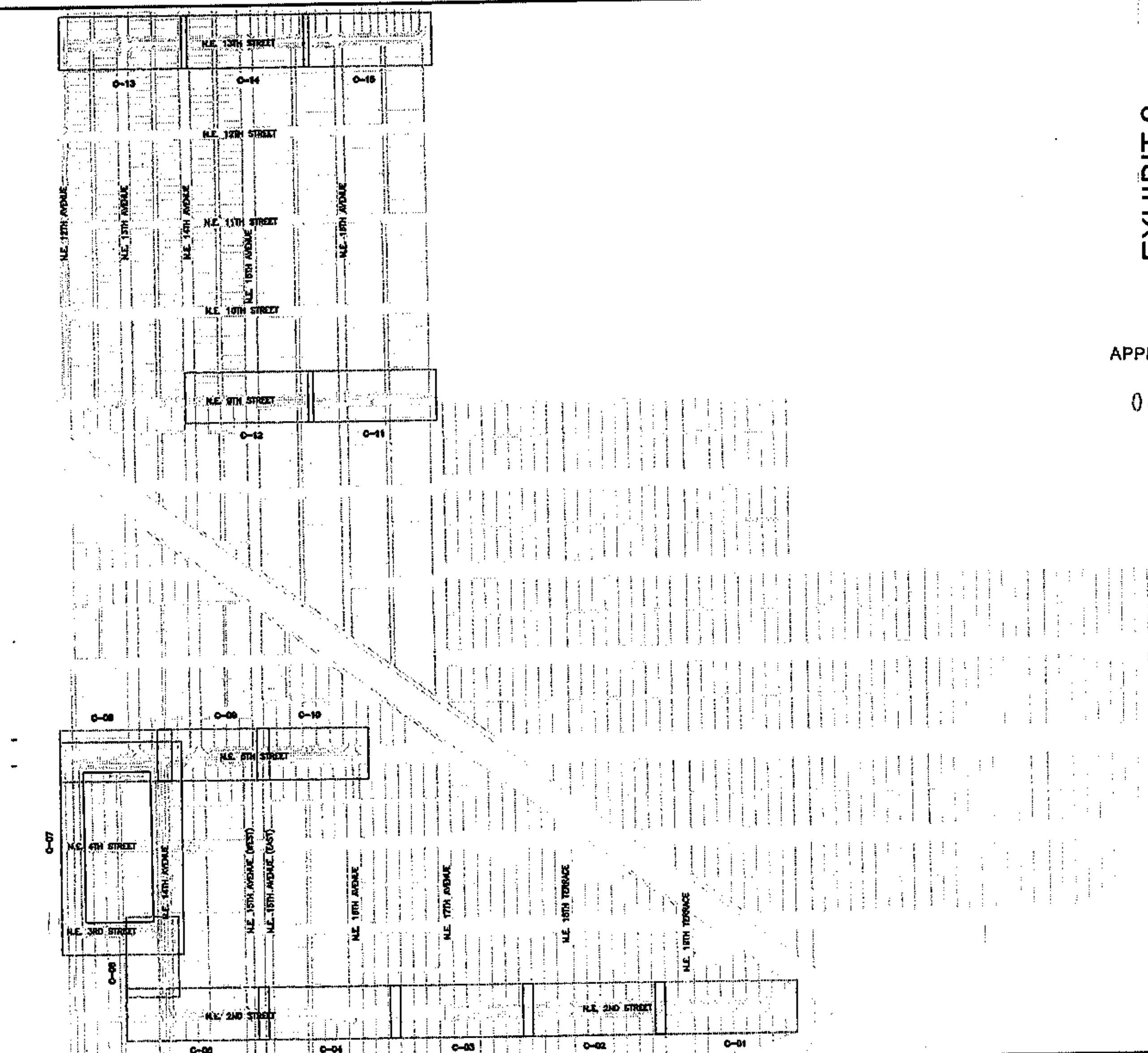


EXHIBIT 2
APPLICATION 080314-2
Page 1 of 18

GRAPHIC SCALE
1" = 200'-0"
* NOTE: DRAWING SCALES ARE DOUBLED FOR 11 X 17 SHEET SIZES

APPLICATION NUMBER
080314- 2
OKS

ADDITIONAL INFO.
MAR 19 2008
OKS

NO.	DATE	REVISION	BY

Date: 01/02/08
Designed: AC
Drawn: MH
Checked: OAR

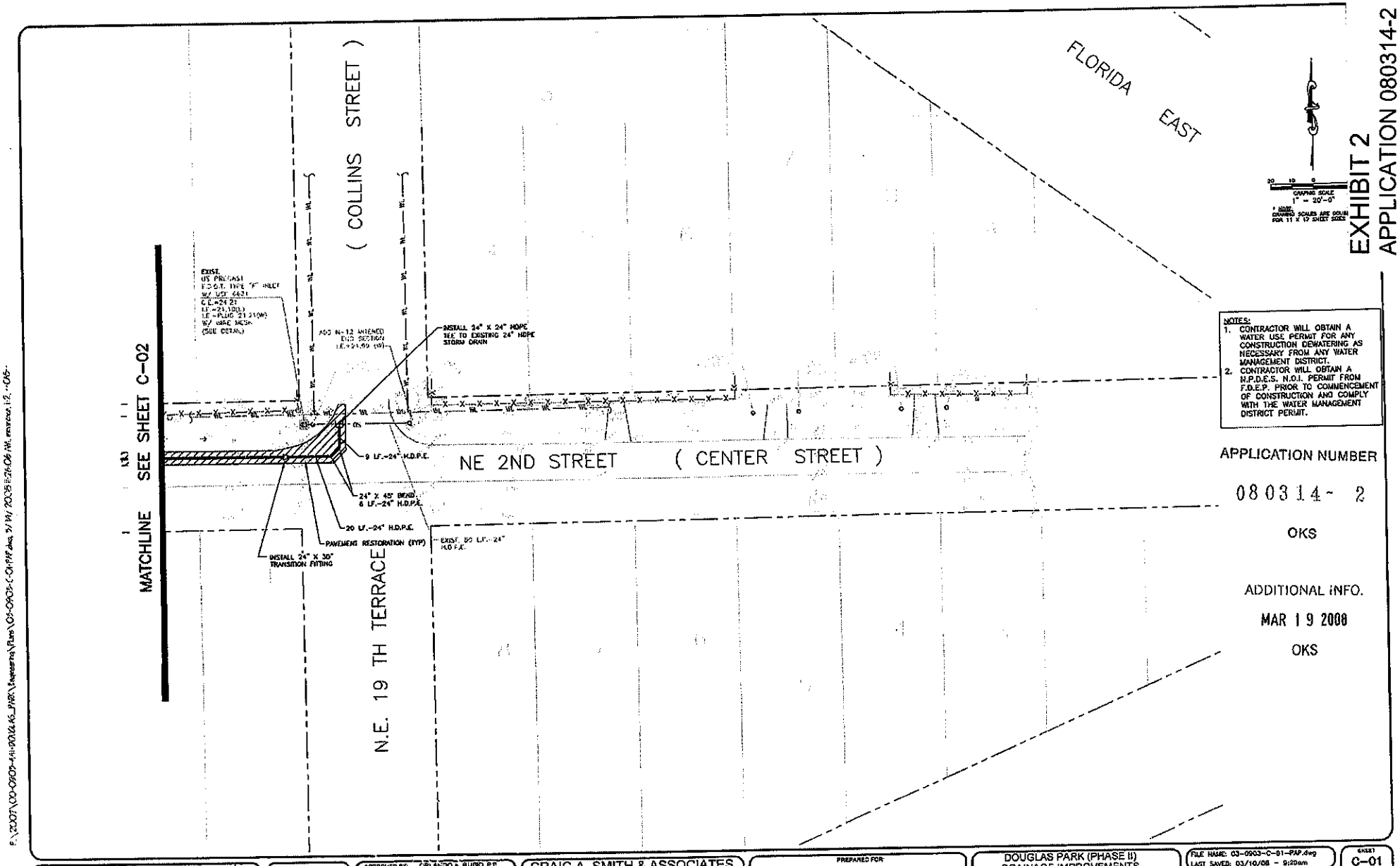
APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST McNAB ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-8222
CERTIFICATE NO. LB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
KEY SHEET

FILE NAME: 02-LAND-C-02-KEY.dwg
LAST SAVED: 03/10/08 - 9:28am
SCALE: AS SHOWN
PROJECT: 00-0903
SHEET: G-02 OF 18 Total Sheets



NO	DATE	REVISION	BY

Date: 01/02/03
Designed: AC
Drawn: MM
Checked: OAR

APPROVED BY: ORLANDO A. RUDIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST MCNAB ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-0222
CERTIFICATE NO. LB 3110

PREPARED FOR
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 2ND STREET

FILE NAME: 03-0903-C-01-PAP.dwg
LAST SAVED: 03/10/08 - 9:20am
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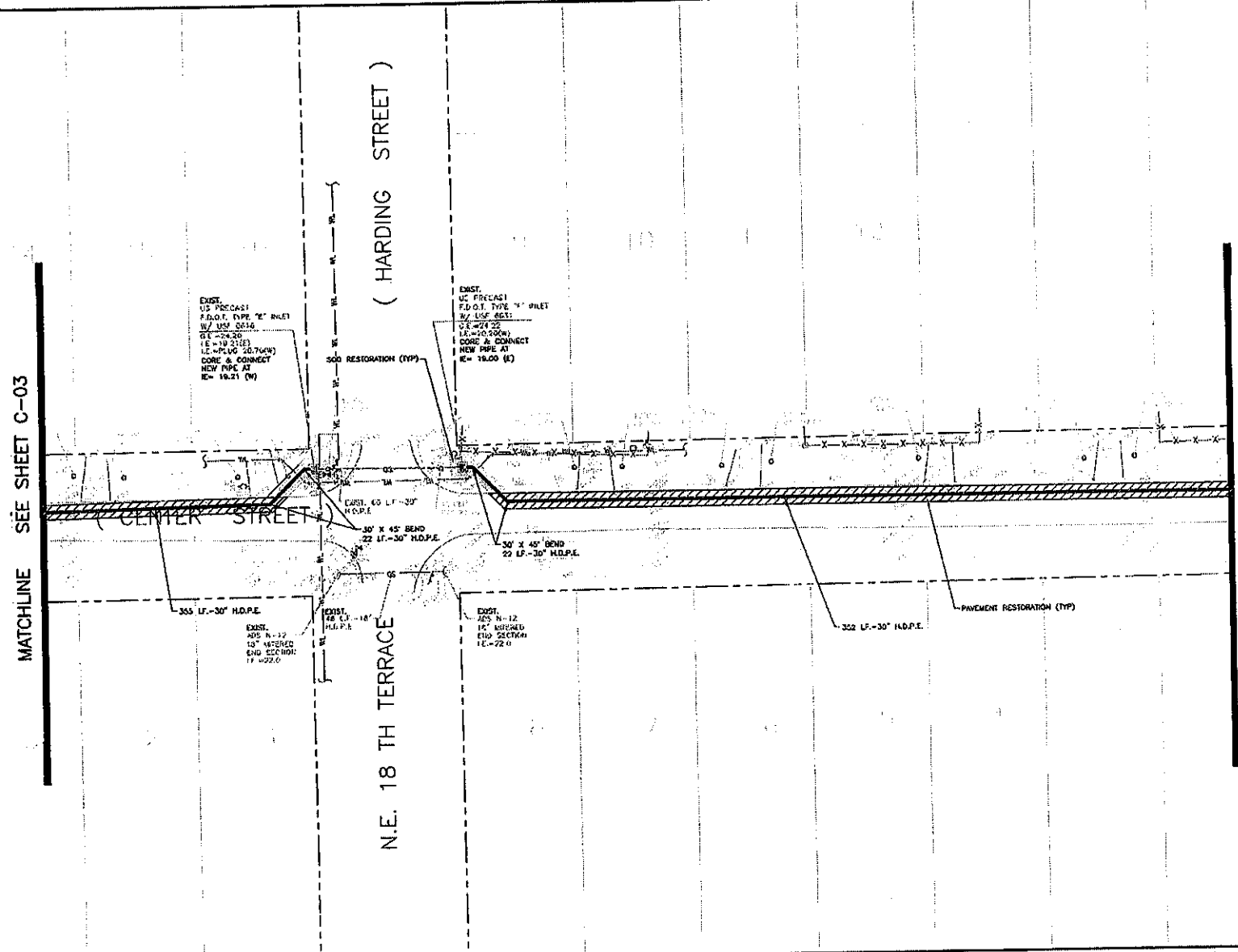
SHEET C-01 OF 18 Total Sheets

EXHIBIT 2
APPLICATION 080314-2
Page 2 of 18



NOTES:
1. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT.
2. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE WATER MANAGEMENT DISTRICT PERMIT.

APPLICATION NUMBER

080314- 2

OKS

ADDITIONAL INFO.

MAR 19 2008

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EXHIBIT 2
APPLICATION 080314-2
Page 3 of 18

NO	DATE	REVISION	BY

Date: 01/02/03
Designed: AC
Drawn: MH
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 49265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST HILLSBORO BOULEVARD
POMPANO BEACH, FLORIDA 33069
(954) 782-1222
CERTIFICATE NO. LB 2190

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 2ND STREET

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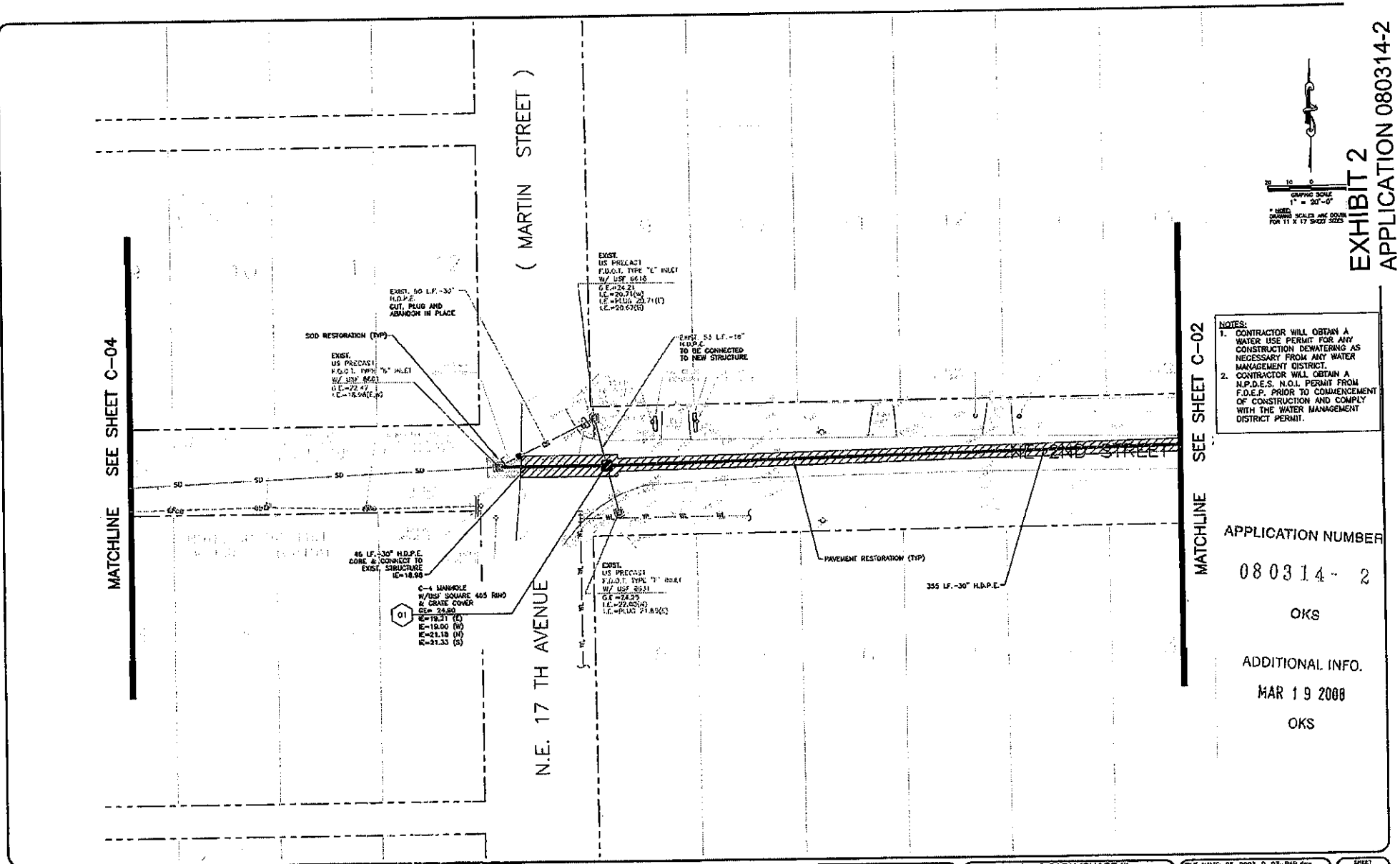
SHEET C-02 OF 18



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APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST HIGHWAY 80W
POMPANO BEACH, FLORIDA 33069
(954) 782-0222
CERTIFICATE NO. LB 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 2ND STREET

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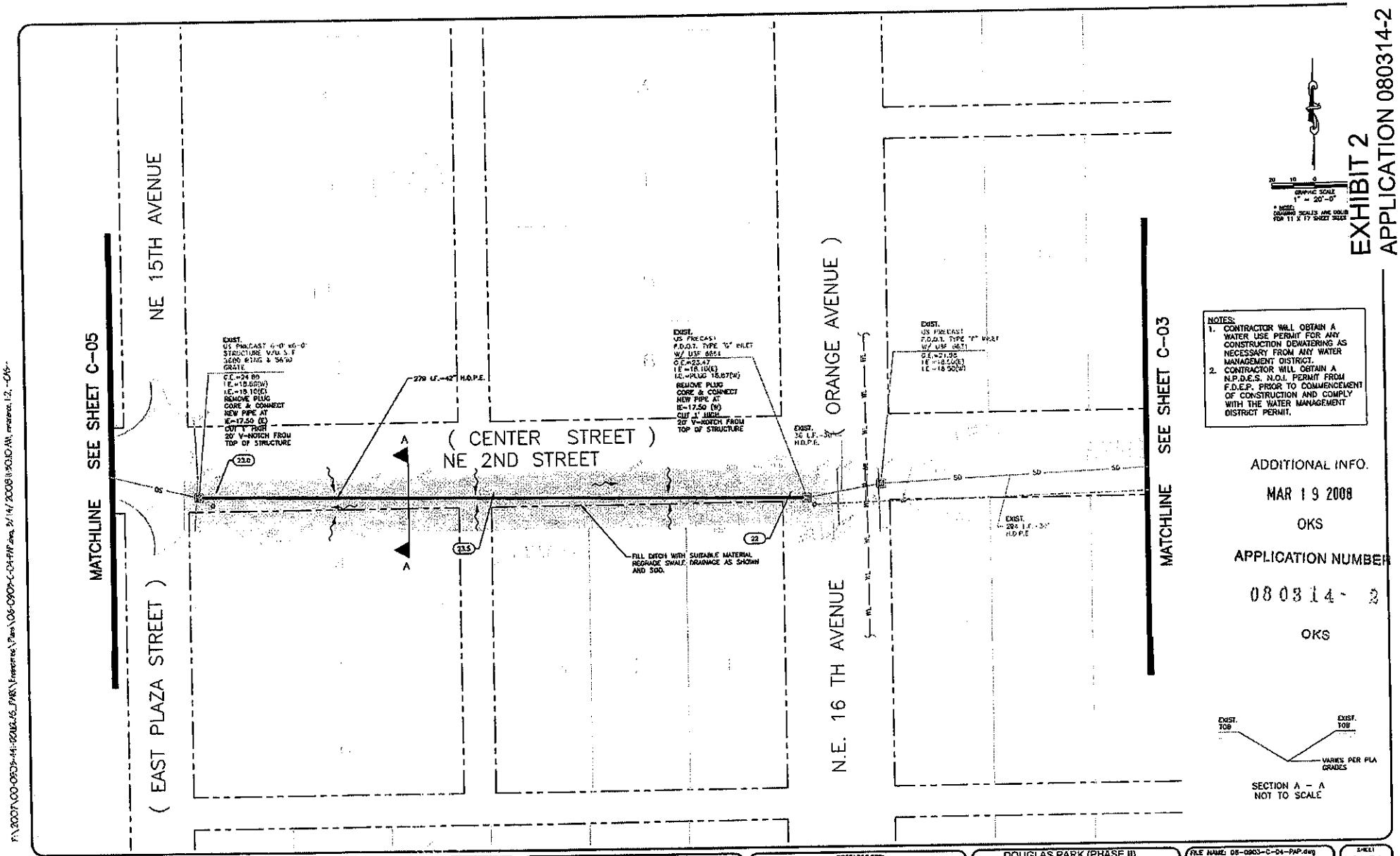

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ADDITIONAL INFO.
MAR 19 2008
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APPLICATION NUMBER
080314-2
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EXHIBIT 2
APPLICATION 080314-2
Page 5 of 18

NO	DATE	REVISION	BY

Date: 01/2008
Designed: AC
Drawn: MM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST MAIN ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-0222
CERTIFICATE NO. EB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 2ND STREET

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PROJECT: 00-0903

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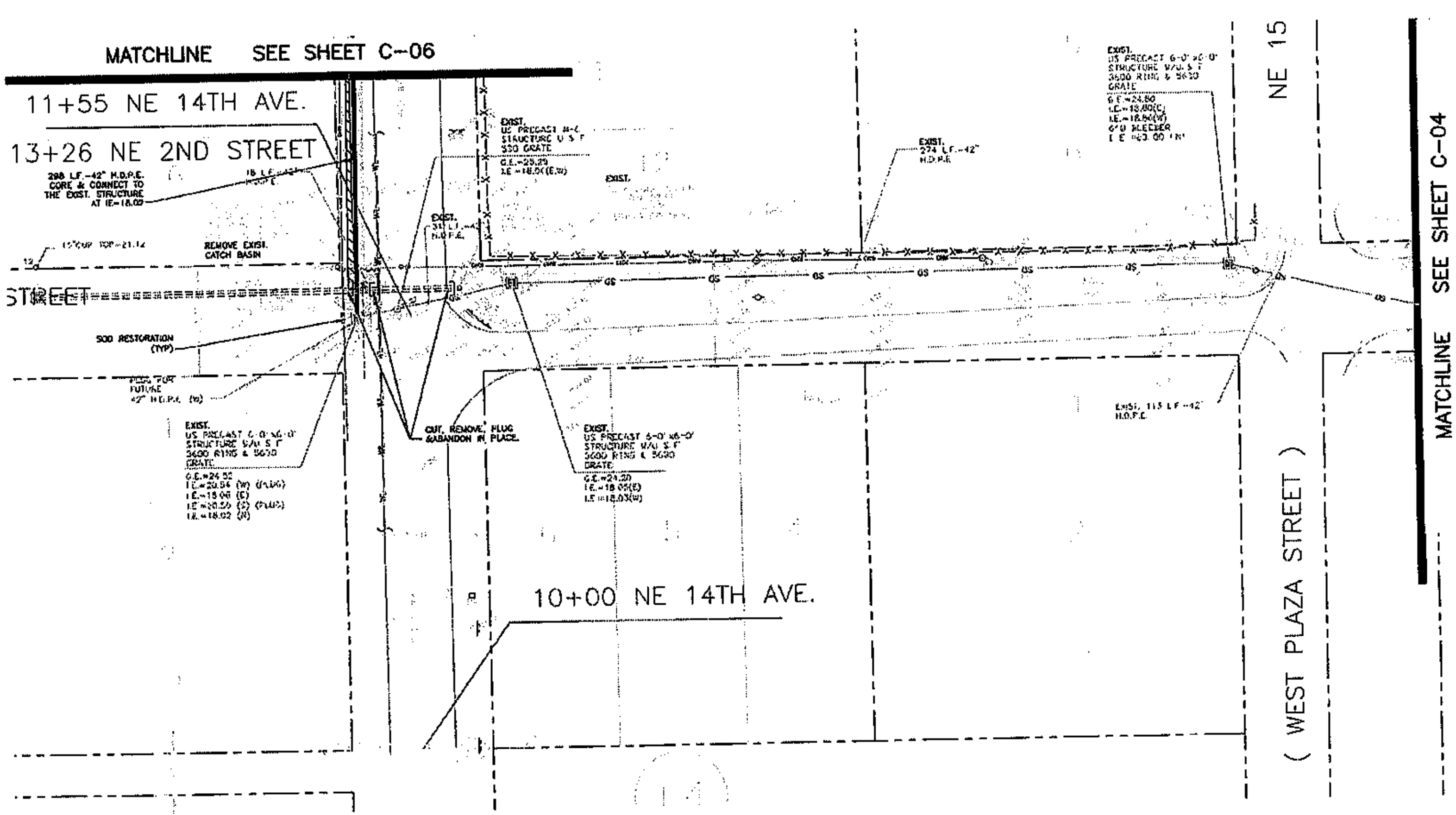

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EXHIBIT 2
APPLICATION 080314-2
Page 6 of 18

NO.	DATE	REVISION	BY

Date: 01/02/08
Designed: AG
Drawn: MM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
FLORIDA PROFESSIONAL ENGINEER NO. 46285

CRAIG A. SMITH & ASSOCIATES
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1000 WEST McNAB ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-8222
CERTIFICATE NO. LB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 2ND STREET

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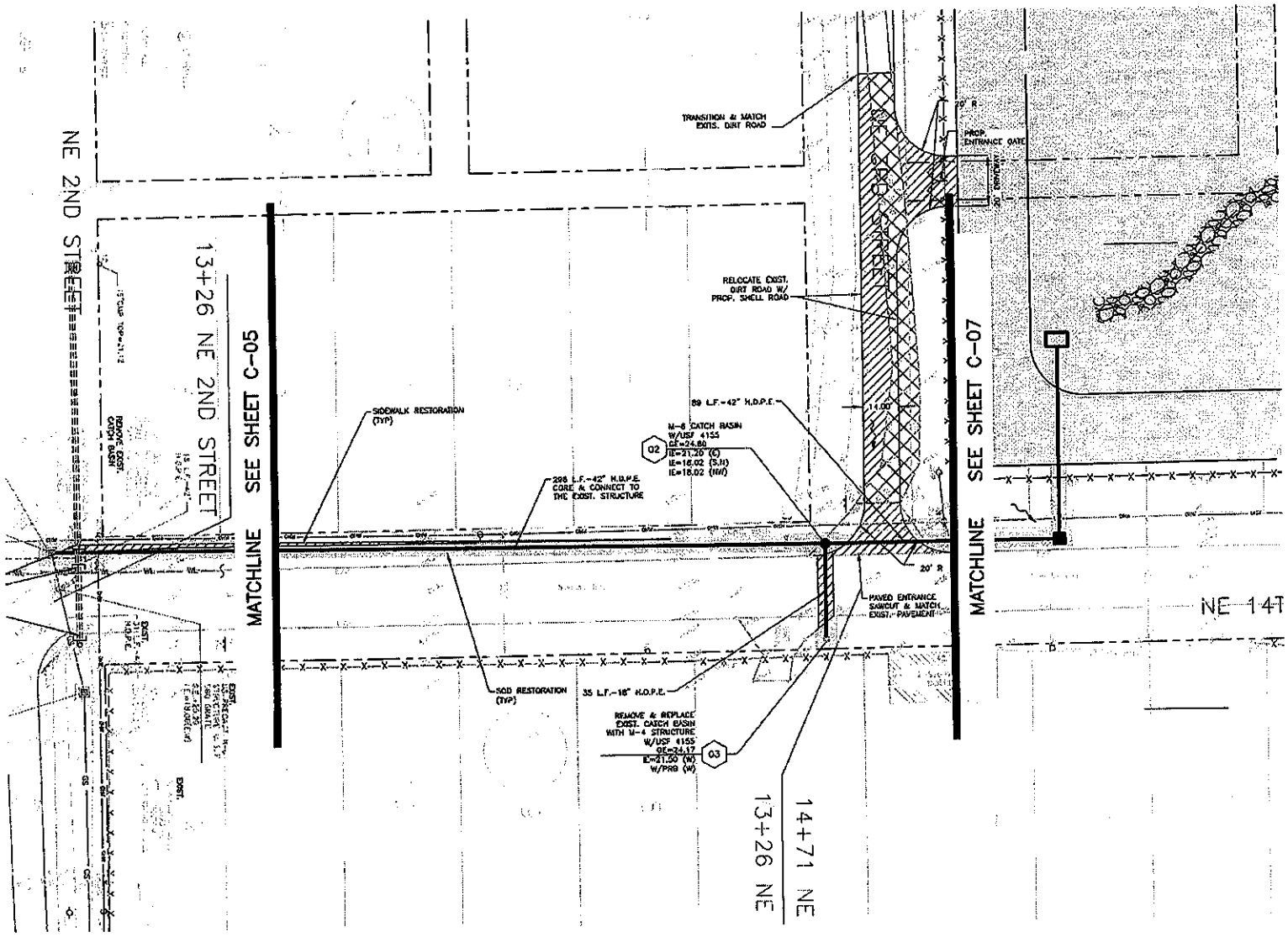

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ADDITIONAL INFO.

MAR 19 2008

OKS

APPLICATION NUMBER

080314- 2

OKS

NO	DATE	REVISION	BY

Date: 3/10/08
Designed: AG
Drawn: MM
Checked: OAR

APPROVED BY: OKLAHOMA A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 46285

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST McNAB ROAD
POMPANO BEACH, FLORIDA 33064
(954) 782-8222
CERTIFICATE NO. EB 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 14TH AVENUE

FILE NAME: 08-0903-C-06-PAP.dwg
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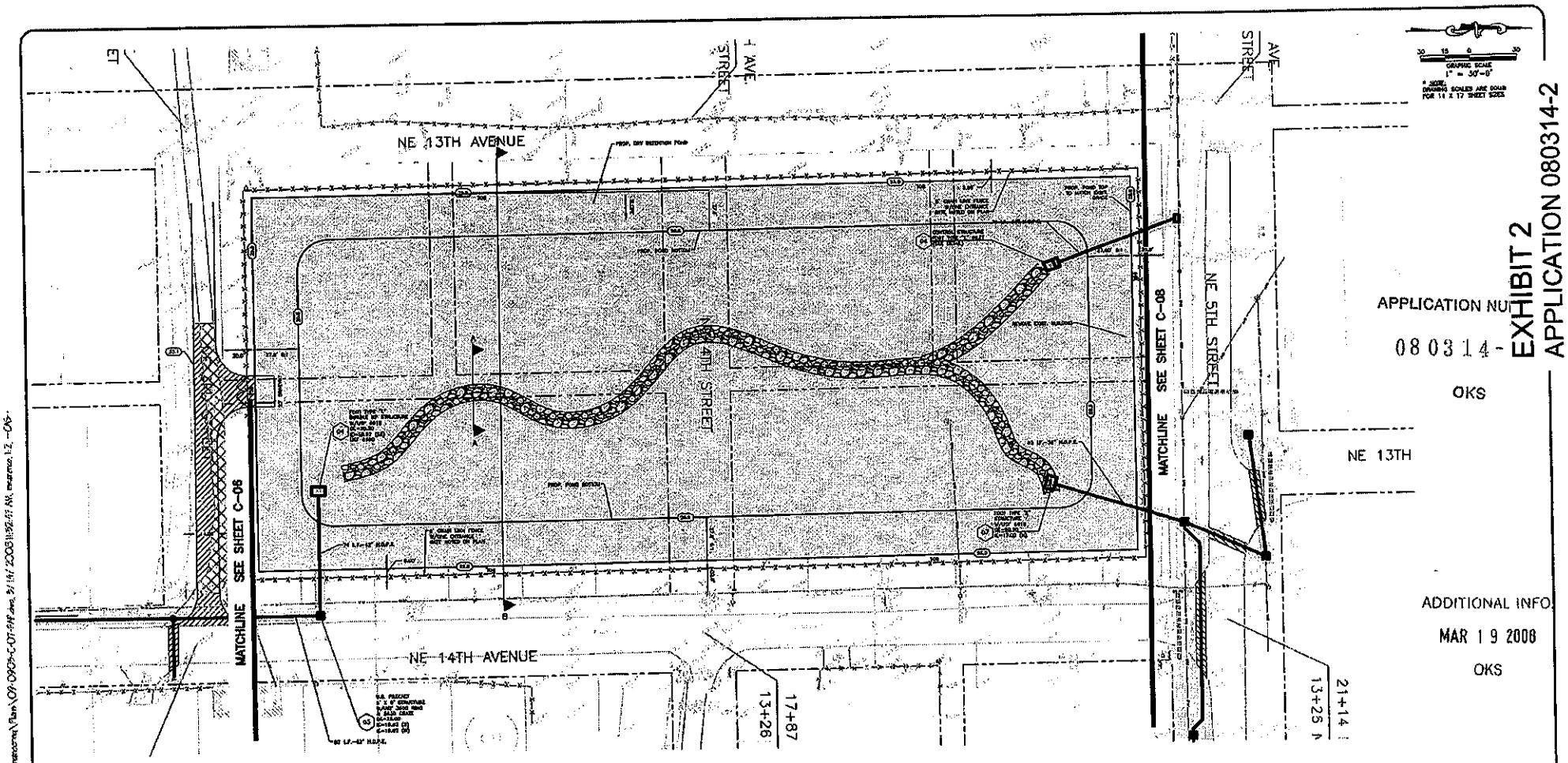

APPLICATION NU
080314-
OKS

ADDITIONAL INFO
MAR 19 2008
OKS

EXHIBIT 2
APPLICATION 080314-2
Page 8 of 18

NOTES:
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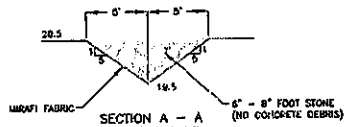
KEY DITCH



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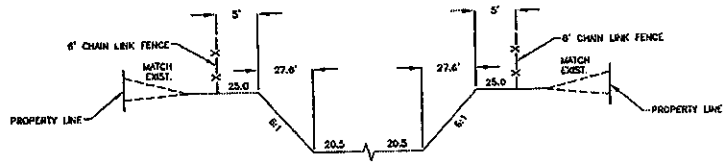

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NO.	DATE	REVISION	BY

Date: 9/10/08
Designed: AG
Drawn: NH
Checked: CAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/10/08
FLORIDA PROFESSIONAL ENGINEER NO. 48295

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST HOWARD ROAD
POMPANO BEACH, FLORIDA 33064
(954) 782-0222
CERTIFICATE NO. LB 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 14TH AVENUE

FILE NAME: 08-0903-C-07-PAP.dwg
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Total Sheets

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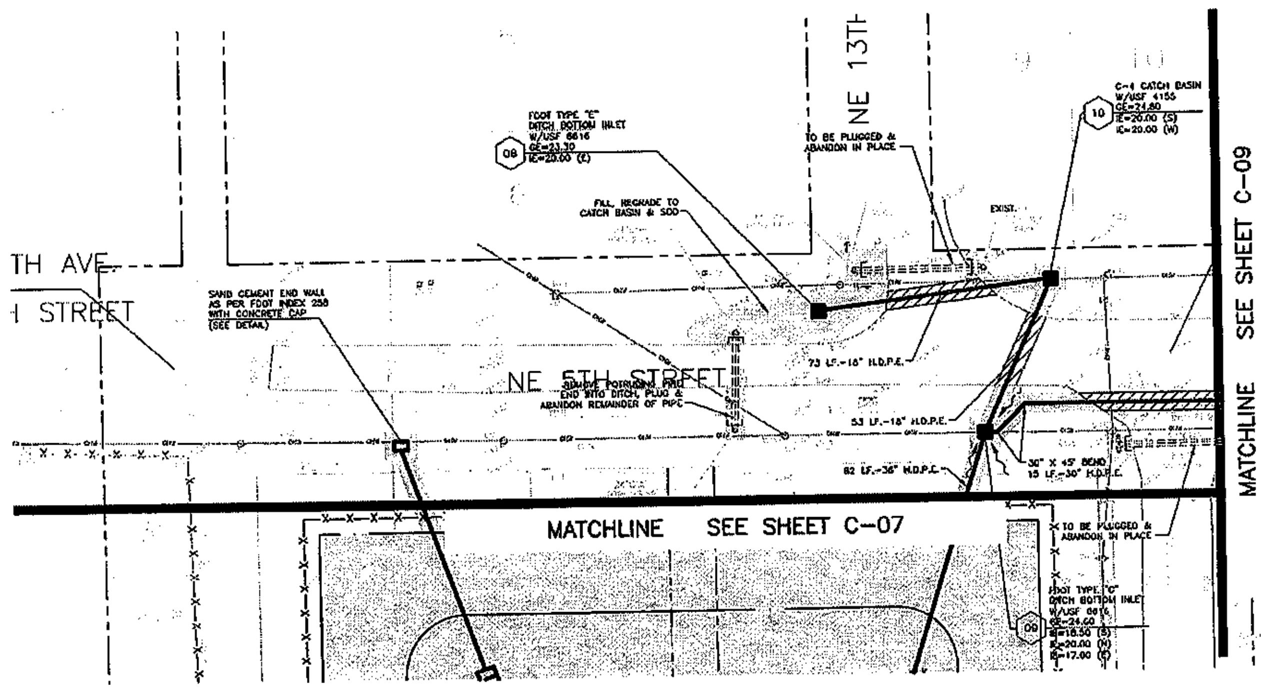

GRAPHIC SCALE 1" = 20'-0"

NOTES:

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APPLICATION NUMBER
080314-2
OKS

ADDITIONAL INFO
MAR 19 2008
OKS

NO.	DATE	REVISION	BY

Date: 01/02/08
Designed: AC
Drawn: [illegible]
Checked: CAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/19/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST McNAB ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-8222
CERTIFICATE NO. LB. 3510

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 5TH STREET

FILE NAME: 10-0903-C-08-PAP.dwg
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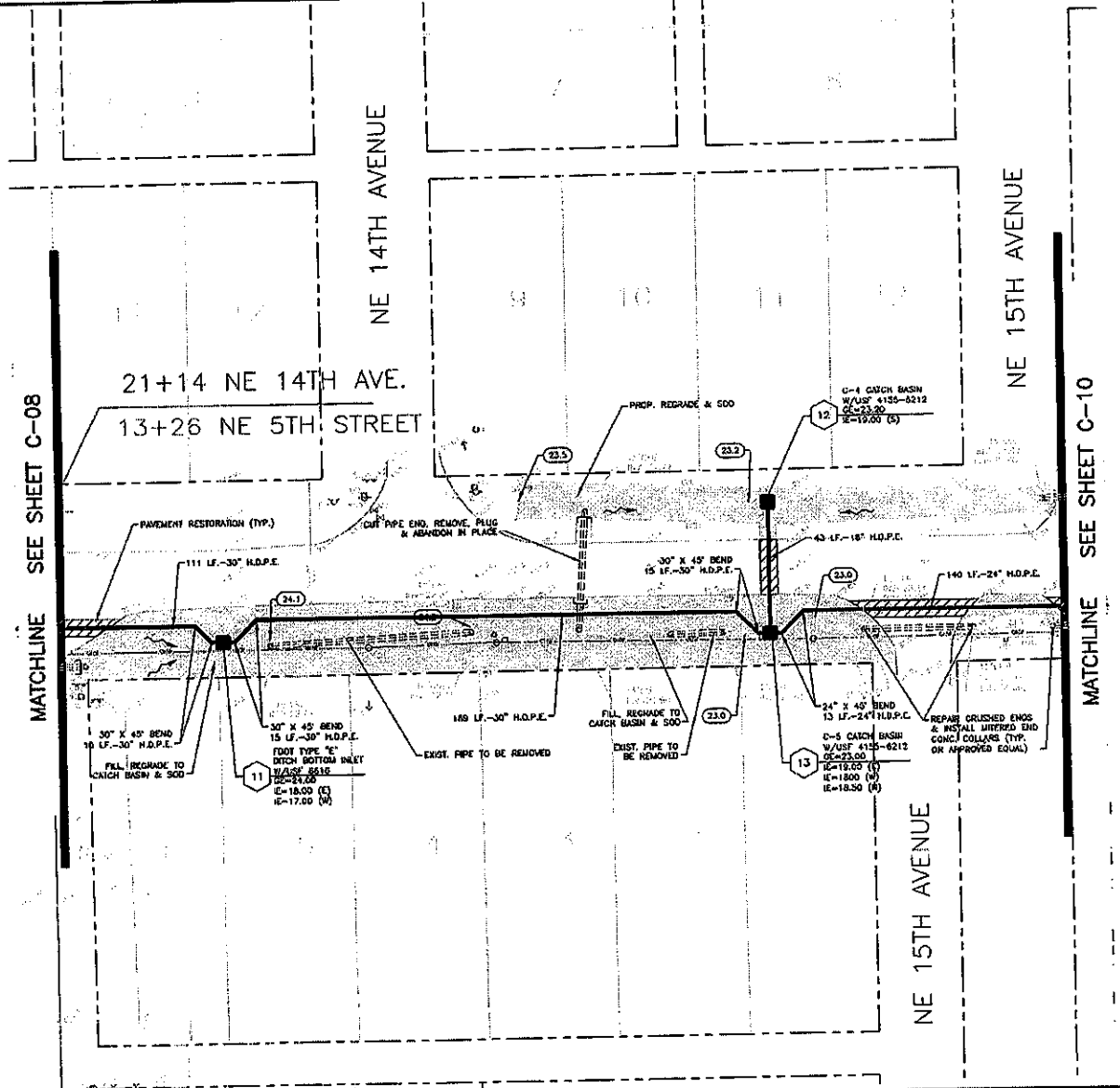

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ADDITIONAL INFO.
MAR 19 2008
OKS
APPLICATION NUMBER
080314- 2
OKS

EXHIBIT 2
APPLICATION 080314-2
Page 10 of 18

NO.	DATE	REVISION	BY

Date: 01/02/08
Designed: AC
Drawn: MM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST AMME ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-0220
CERTIFICATE NO. LB 3110

PREPARED FOR
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 5TH STREET

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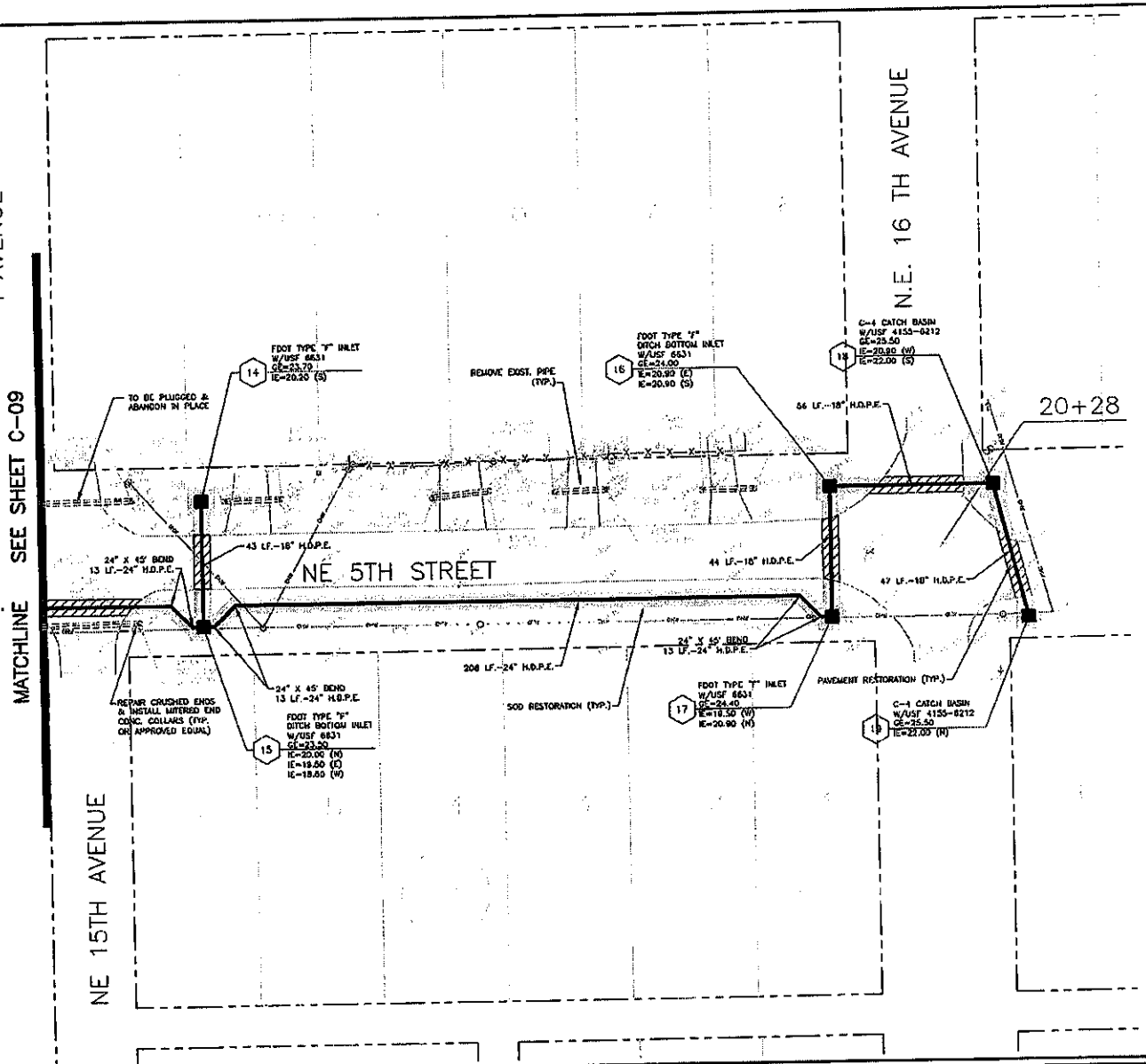

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APPLICATION NUMBER
080314- 2
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EXHIBIT 2
APPLICATION 080314-2
Page 11 of 18

NO.	DATE	REVISION	BY

Date: 01/02/08
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Checked: OAR

APPROVED: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO 46285

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST ATLANTIC ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-0223
CERTIFICATE NO. LB 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 5TH STREET

FILE NAME: 12-0903-C-10-PAP.dwg
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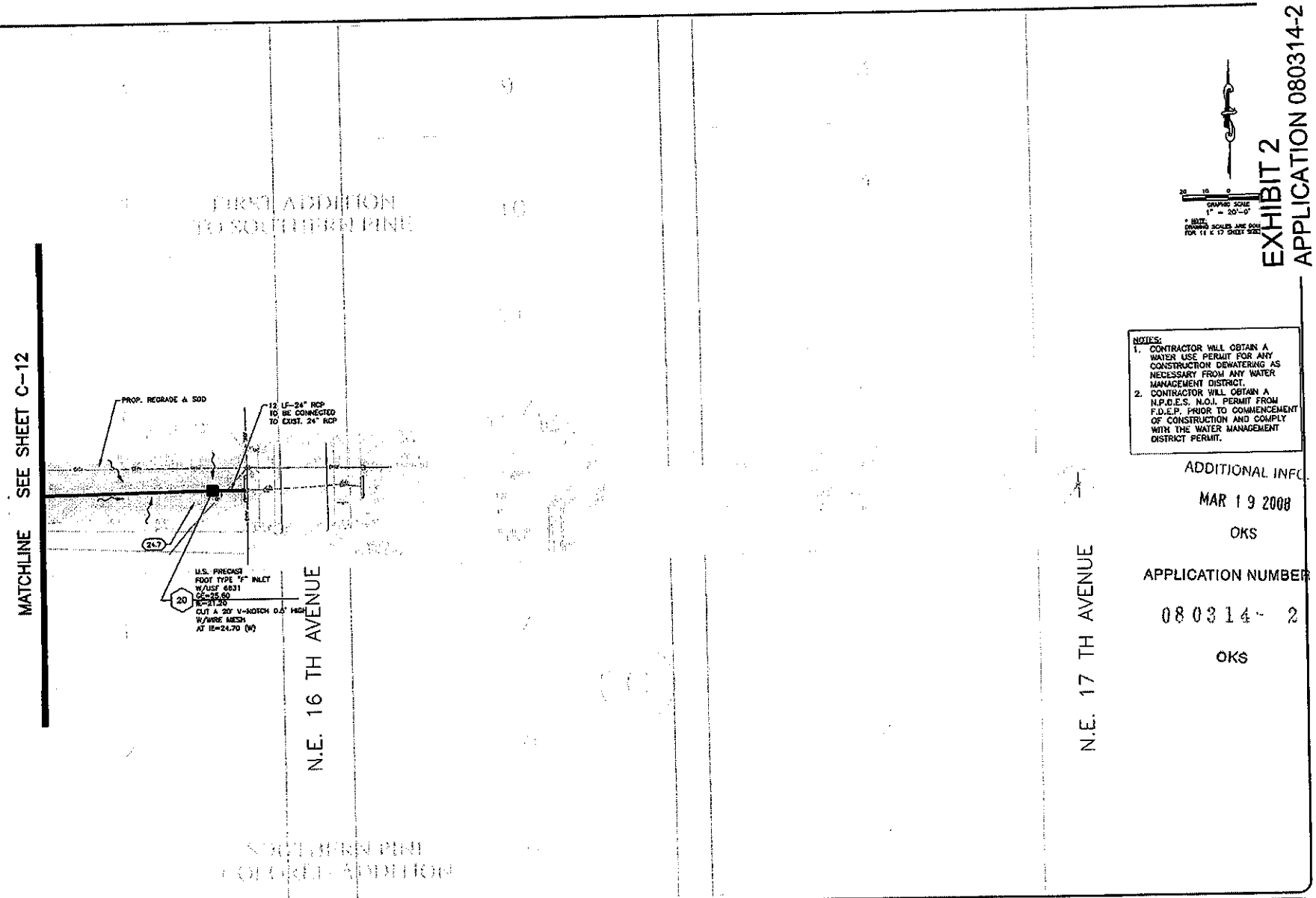

EXHIBIT 2
APPLICATION 080314-2
Page 12 of 18

NO.	DATE	REVISION	BY

Date: 01/2008
Designed: AC
Drawn: MH
Checked: CAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 46265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1000 WEST HAMB ROAD
POMPANO BEACH, FLORIDA 33069
(954) 782-9222
CERTIFICATE NO. LB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 9TH STREET

FILE NAME: 13-0903-C-11-PAP.dwg
LAST SAVED: 03/10/08 - 9:43am

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SHEET C-11 OF 18 Total Sheets

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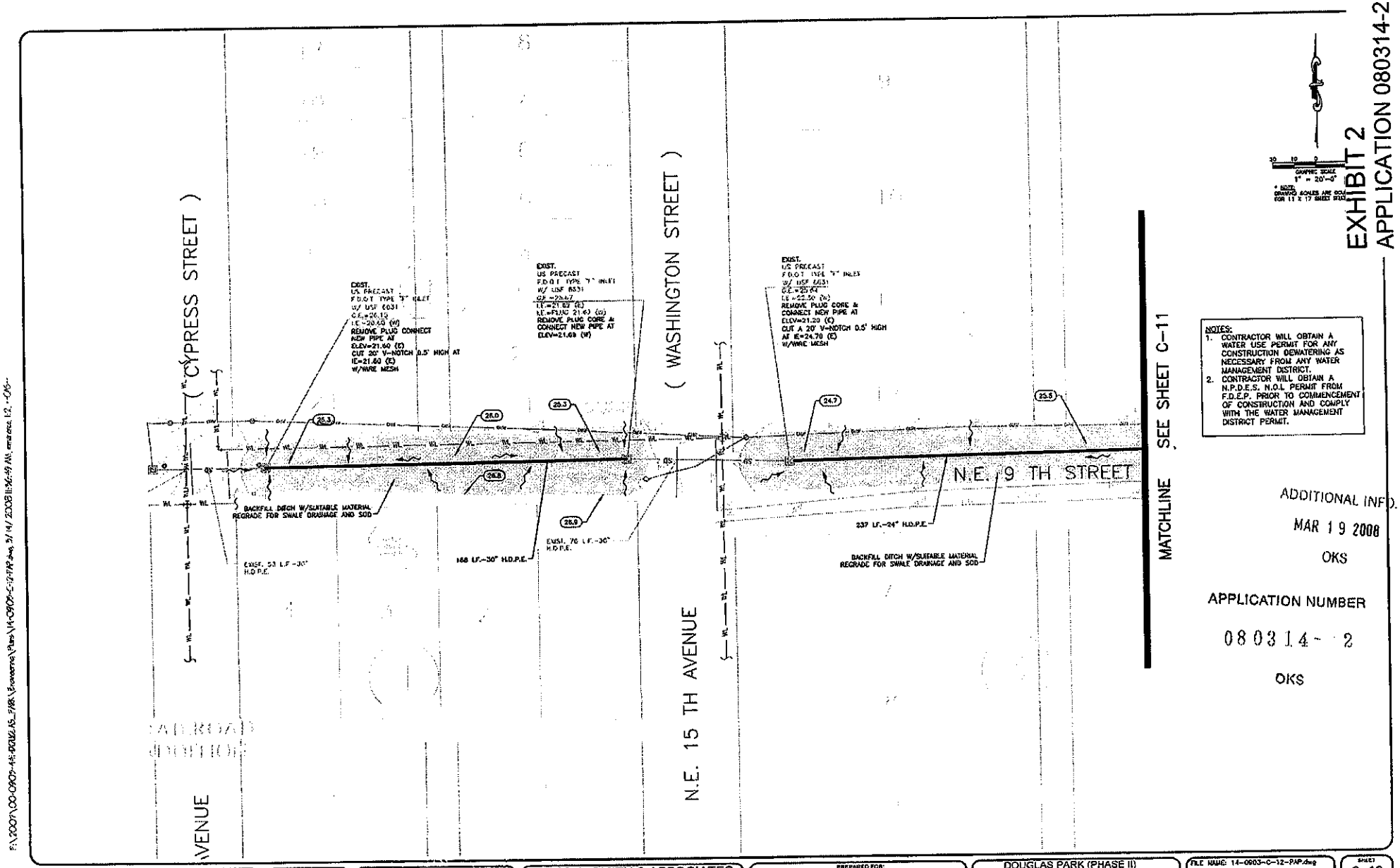

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APPROVED BY: ORLANDO A. RUENO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO 48265

CRAIG A. SMITH & ASSOCIATES
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CERTIFICATE NO. LB 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 9TH STREET

FILE NAME: 14-0903-C-12-PAP.dwg
LAST SAVED: 03/10/08 - 9:45am
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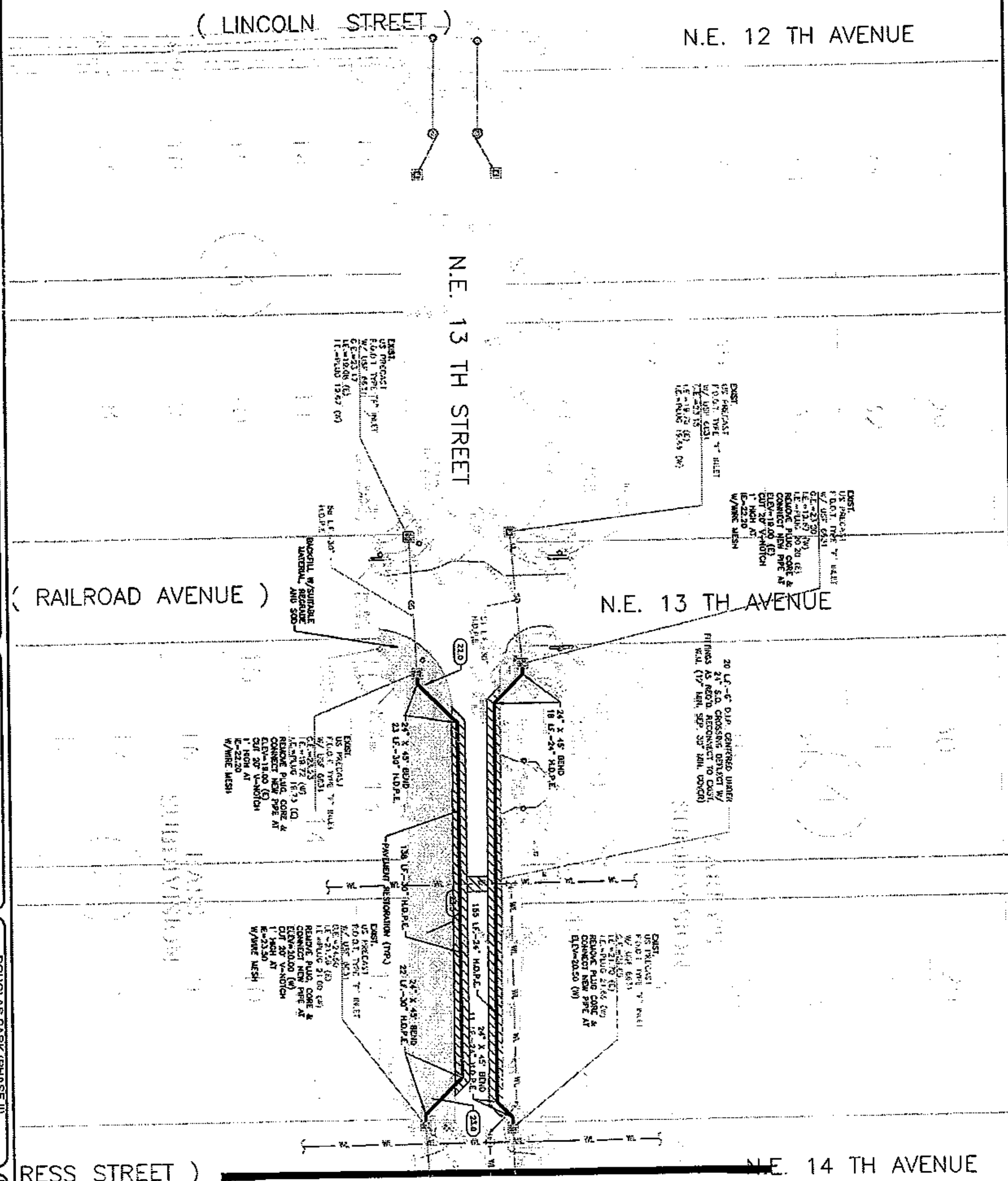
PROJECT: 00-0903
SHEET C-12 OF 18

P:\2007\00-0903-441-DOUGLAS_PARK\Engineering\Plans\15-0903-C-13-PAP.dwg 3/14/2008 ...



NOTES:
1. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT.
2. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE WATER MANAGEMENT DISTRICT PERMIT.

GRAPHIC SCALE 1" = 20'-0"

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CRAIG A. SMITH & ASSOCIATES
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OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 13TH STREET

FILE NAME: 15-0903-C-13-PAP.dwg
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SHEET C-13 of 18

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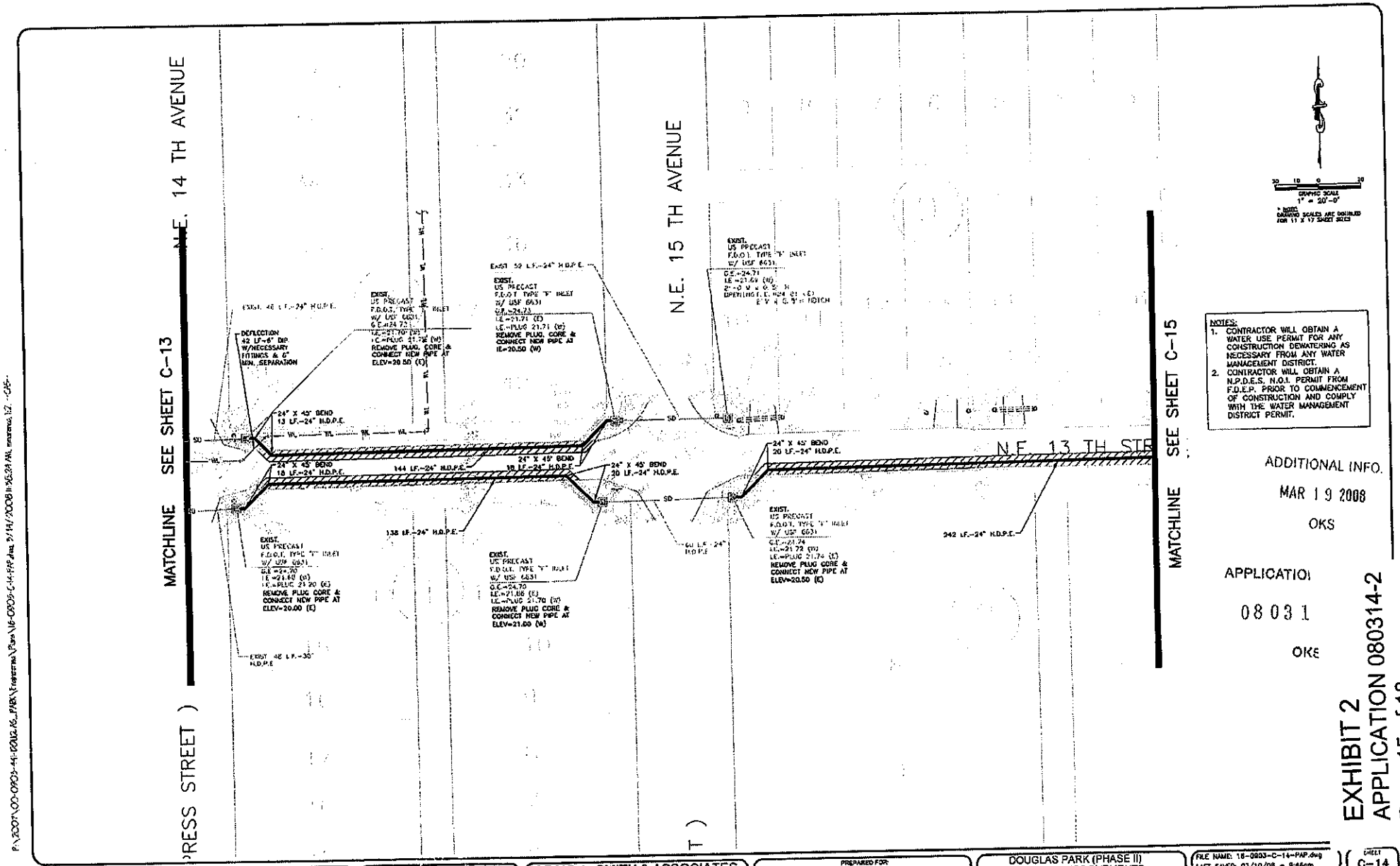
APPLICATION 080314-2
Page 14 of 18



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ADDITIONAL INFO.
MAR 19 2008
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APPLICATIO
08031
OKE

NO	DATE	REVISION	BY

Date 01/2008
Designed AC
Drawn MH
Checked GAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
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DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 13TH STREET

FILE NAME: 16-0903-C-14-PAP.dwg
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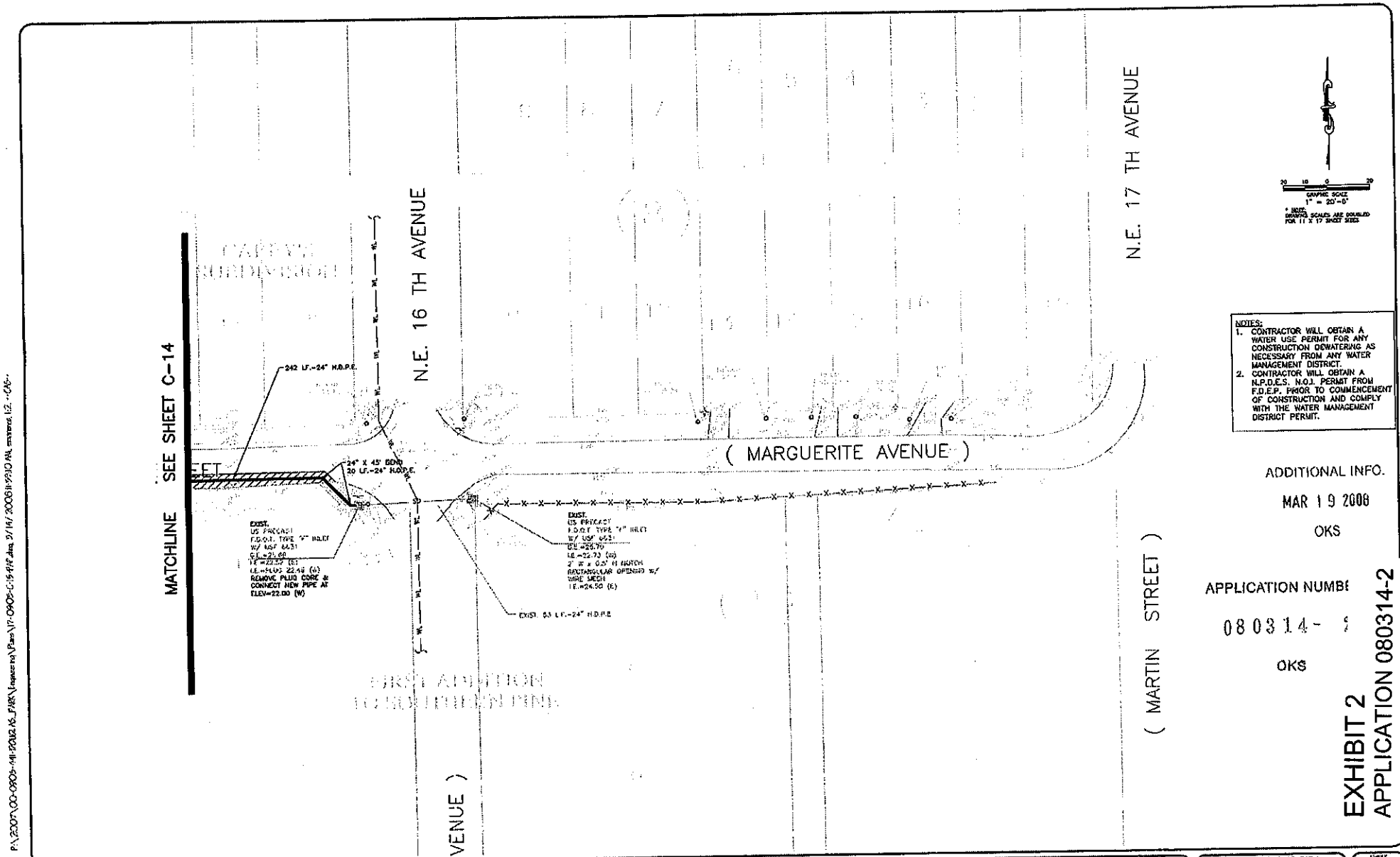
Page 15 of 18



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ADDITIONAL INFO.

MAR 19 2008

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APPLICATION NUMBE

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Page 16 of 18

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Drawn: NW
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APPROVED BY: ORLANDO A. RATTO, P.E.
DATE: 3/14/08
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OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
N.E. 13TH STREET

FILE NAME: 17-0903-C-15-PAP.dwg
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SCALE: AS SHOWN
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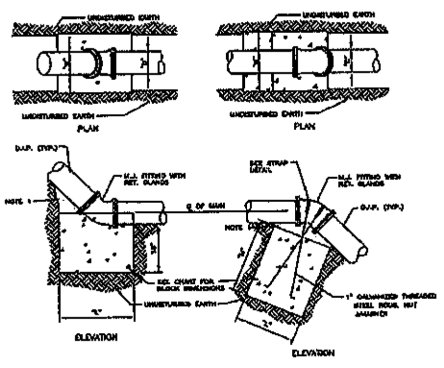
SCALE: N.T.S.



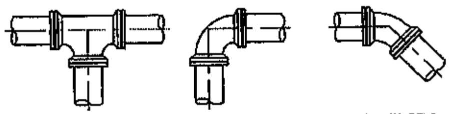
BLOCKING DETAIL FOR VERTICAL SAG
N.T.S.

BLOCKING DETAIL FOR VERTICAL CREST
N.T.S.

NOTES:
1. ANY VOID BETWEEN MAIN AND GRAVITY BLOCK TO BE FILLED WITH GROUT BY CONTRACTOR
2. FITTINGS SHALL BE WRAPPED WITH SUITABLE COVERING TO PREVENT ADHERENCE TO GRAVITY BLOCK
3. USE MEGALUGS ON ALL FITTINGS.

GRAVITY BLOCK DETAIL

SCALE: N.T.S.

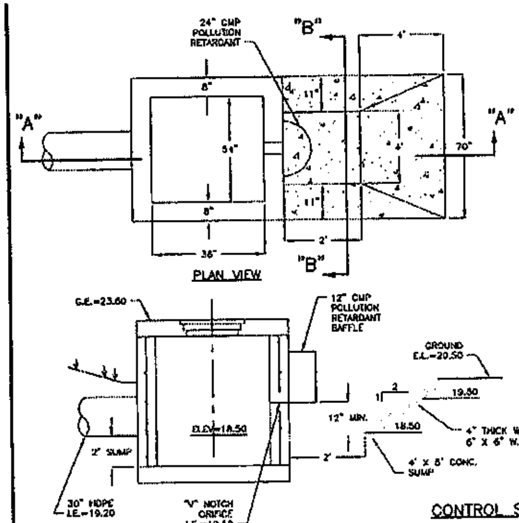


TEE & WYE | 90° BEND | 45° & 22 1/2° BEND

RESTRAINED PIPE LENGTH (LINEAL FEET)					
PIPE SIZE	TEE & WYE	90°BEND	45°BEND	22 1/2°BEND	11 1/4°BEND
6"	27	27	16	9	5
8"	34	34	20	11	6
10"	41	41	24	14	7
12"	48	48	28	16	8
14"	55	55	32	18	10
16"	62	62	35	20	11
18"	69	69	39	22	12
20"	75	75	42	24	13
24"	87	87	48	27	14
30"	104	104	57	31	17
36"	120	120	65	35	19
42"	134	134	72	39	21
48"	147	147	79	42	22
54"	160	160	85	45	24

NOTE:
THE FIGURES IN THIS TABLE ARE BASED ON 150 PSI TEST PRESSURE WITH 2.5 FEET OF COVER AND 2000 POUNDS PER SQUARE FOOT SOIL BEARING AGAINST UNDISTURBED TRENCH. A 20% SAFETY FACTOR HAS BEEN ADDED.

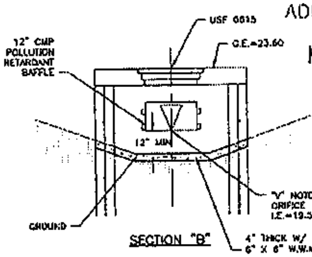
RESTRAINED JOINT DETAIL



SECTION "A"

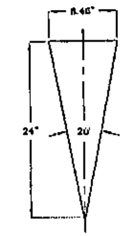
CONTROL STRUCTURE DETAIL

TYPE "E" INLET FDOT
W/6615 GRATE
SCALE: N.T.S.

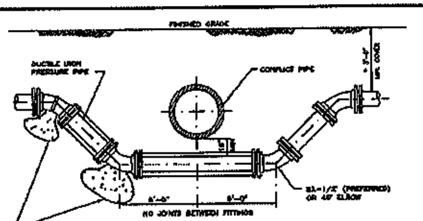


SECTION "B"

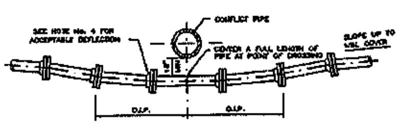
NOTES:
1. TOP OF "V" NOTCH ORIFICE TO BE BELOW TOP SLAB OF STRUCTURES.
2. ALL STRUCTURES LOCATED WITHIN SWALE AREA TO INCLUDE "V" NOTCH ORIFICE IN SIDE WALL.



ORIFICE BLEEDER



FITTING TYPE

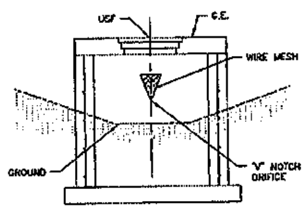


DEFLECTION TYPE

NOTES:
1. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN 30" COVER TO FINISHED GRADE.
2. FITTINGS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINTS (MEGALUG) AND GRAVITY BLOCKS.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. MECHANICALLY RESTRAIN ALL FITTINGS, AS PER MANUFACTURERS RECOMMENDATION.
* 36" MIN IN STATE ROAD R/W AND UNDER ASPHALT

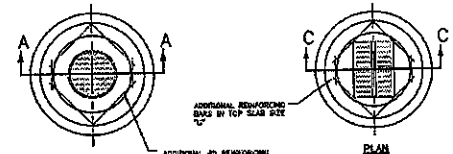
PRESSURE PIPE CONFLICT DETAIL

SCALE: N.T.S.



TYP CB W/ V-NOTCH

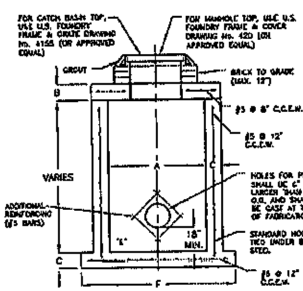
SCALE: N.T.S.



PLAN | PLAN

TYPE	"A"	"B"	"C"	"D"	"E"	"F"	"G"
C-4 / M-4	4'-0"	6"	6"	#4 @ 12" C.C.E.W.	#4 @ 12" C.C.E.W.	6'-4"DIA	#4 @ 6" C.C.E.W.
C-5 / M-5	5'-0"	6"	8"	#5 @ 12" C.C.E.W.	#5 @ 12" C.C.E.W.	7'-4"DIA	#5 @ 6" C.C.E.W.
C-6 / M-6	6'-0"	8"	10"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	8'-4"DIA	#5 @ 6" C.C.E.W.
C-7 / M-7	7'-0"	8"	10"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	9'-4"DIA	#5 @ 6" C.C.E.W.
C-8 / M-8	8'-0"	10"	10"	3-W.W.M.w/#4 @12" C.C. VERT.	#5 @ 6" [illegible]	[illegible]	#5 @ 6" C.C.E.W.
NOTE- C FOR SQUARE CATCH BASIN, M FOR ROUND MANHOLE							

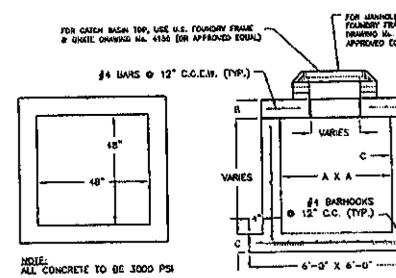
APPLICATION NUMBER
080314-2



SECTION A-A

M-5 PRECAST DRAINAGE MANHOLE / CATCH BASIN

SCALE: N.T.S.



NOTE:
ALL CONCRETE TO BE 3000 PSI

PRECAST C-4 CATCH BASIN/MANHOLE

SCALE: N.T.S.

NO.	DATE	REVISION	BY

Date: 01/02/08
Designed: AC
Drawn: MM
Checked: CAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE 3/14/08
FLORIDA PROFESSIONAL ENGINEER NO. 48285

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CERTIFICATE NO. LB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
STANDARD DRAINAGE DETAIL

FILE NAME: 18-0903-C-16-DTLS.dwg
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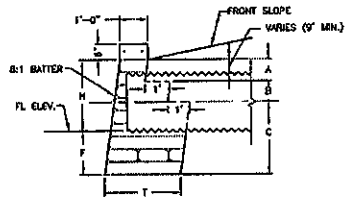
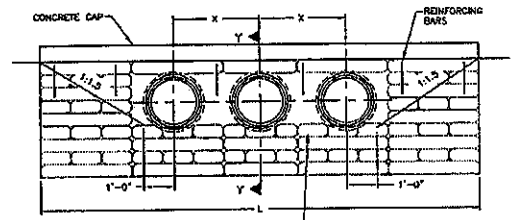
APPLICATION 080314-2
Page 17 of 18



HIGH DENSITY POLYETHYLENE

SECTION YY



FRONT ELEVATION

SHAPE SAND-CEMENT BAGS ON UPSTREAM END TO 45° BEVEL (3" AT TOP TO 6" ON LOWER SIDES) FOR CONCRETE AND METAL CULVERTS

NOTE:
1. FOR CONCRETE AND CORRUGATED METAL PIPES, CONCRETE PIPE SHOWN
2. THE TOP ROW OF RIPRAP BAGS SHALL BE SECURED BY PINNING, USING #4 REINFORCING BARS 18 INCHES IN LENGTH, AS FOLLOWS:
   2.1. THE END BAGS SHALL BE SECURED USING TWO BARS PER BAG, ONE VERTICAL AND ONE DIAGONAL AS SHOWN.
   2.2. THE NEXT TO LAST BAG ON EACH END SHALL BE SECURED WITH TWO BARS VERTICALLY.
   2.3. BAGS LOCAATED OVER THE PIPE SHALL BE SECURED BY A BASR WHICH IS DRIVEN DIAGONALLY EXCEPT THAT FOR CONCRETE PIPE TWO BARS SHALL BE USED FOR SINGLE GAVS ABOVE THE PIPE.
   2.4. INTERMEDIATE BAGS SHALL BE SECURED WITH A SINGLE BAR.

BARS SHALL BE DRIVEN TO ONE INCH BELOW THE SURFACE OF THE BAG. THE COST OF FURNISHING AND INSTALLING THE BARS SHALL BE INCLUDED IN THE COST OF THE RIPRAP.

TABLE OF DIMENSIONS AND QUANTITIES FOR ONE ENDWALL

SIZE OF PIPE	H	T	A	B	C	F	X	1 PIPE CULVERT			2 PIPE CULVERT			3 PIPE CULVERT			4 PIPE CULVERT		
								L	RIPRAP CY		L	RIPRAP CY		L	RIPRAP CY		L	RIPRAP CY	
									CP	CMP		CP	CMP		CP	CMP		CP	CMP
18"	2'-3"	1'-0"	4'-0"	0'-5"	0'-0"	1'-9"	2'-10"	8'-9"	1.2	1.2	11'-7"	1.5	1.8	14'-5"	1.8	1.9	17'-3"	2.1	2.3
24"	2'-8"	2'-0"	2'-0"	2'-6"	0'-0"	1'-9"	3'-5"	10'-3"	2.4	2.6	13'-8"	3.0	3.2	17'-1"	3.7	4.0	20'-6"	4.3	4.7
30"	3'-4"	2'-0"	2'-0"	3'-2"	0'-0"	1'-10"	4'-3"	12'-6"	3.3	3.4	16'-3"	4.2	4.5	20'-6"	5.1	5.5	24'-9"	6.0	6.5
36"	3'-10"	2'-0"	2'-0"	3'-8"	0'-0"	1'-10"	5'-1"	13'-6"	4.0	4.2	18'-7"	5.2	5.7	23'-8"	6.3	6.9	28'-9"	7.4	8.2
42"	4'-5"	2'-0"	2'-0"	2'-0"	2'-4"	1'-11"	6'-0"	15'-3"	6.4	6.7	21'-3"	8.3	8.9	27'-3"	10.2	11.2	33'-3"	12.3	13.4
48"	4'-11"	2'-0"	2'-0"	2'-0"	2'-10"	1'-11"	6'-9"	16'-9"	7.7	8.1	23'-6"	10.0	10.8	30'-3"	12.3	13.5	37'-0"	14.5	16.2
54"	5'-6"	2'-0"	2'-0"	2'-0"	3'-0"	2'-0"	7'-6"	18'-6"	9.5	10.1	26'-2"	12.4	13.5	33'-10"	15.3	17.0	41'-8"	18.2	20.4
60"	6'-0"	2'-0"	2'-0"	2'-0"	4'-0"	2'-0"	8'-6"	20'-0"	11.0	11.7	28'-8"	14.4	15.6	37'-0"	17.8	19.8	45'-0"	21.1	23.8
66"	6'-7"	2'-0"	2'-0"	2'-0"	4'-8"	2'-1"	9'-3"	21'-9"	13.2	14.1	31'-0"	17.2	18.9	40'-3"	21.2	23.7	49'-6"	25.1	28.5
72"	7'-1"	2'-0"	2'-0"	2'-0"	5'-2"	2'-1"	10'-0"	23'-3"	15.0	16.0	33'-3"	19.4	21.4	43'-3"	23.9	26.6	53'-3"	28.3	32.3
78"	7'-8"	2'-0"	2'-0"	2'-0"	5'-10"	2'-2"	10'-9"	25'-0"	17.5	18.7	35'-9"	22.6	25.0	46'-6"	27.6	31.3	57'-4"	32.9	37.6
84"	8'-2"	2'-0"	2'-0"	2'-0"	6'-4"	2'-2"	11'-6"	26'-6"	19.5	20.9	38'-2"	25.3	28.1	49'-10"	31.1	35.2	61'-6"	36.9	42.4

GENERAL NOTES:
1. STRAIGHT SAND-CEMENT ENDWALLS ARE INTENDED FOR USE OUTSIDE THE CLEAR ZONE.

STRAIGHT SAND-CEMENT ENDWALL DETAIL

SCALE: 1/2"=1'-0"

12" 0 1 3'

* NOTE: DRAWING SCALES ARE DOUBLED FOR 11 X 17 SHEET SIZES

EXHIBIT 2
APPLICATION 080314-2
Page 18 of 18

ADDITIONAL INFO.

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APPLICATION NUMBER

080314- 2

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19-0903-C-17-DTLS

NO.	DATE	REVISION	BY

Date: 01/02/08
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Checked: OAR

APPROVED BY: ORLANDO A. RUIZO, P.E.
DATE: 3/18/08
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CERTIFICATE NO. LB. 3110

PREPARED FOR:
OKEECHOBEE COUNTY

DOUGLAS PARK (PHASE II)
DRAINAGE IMPROVEMENTS
STANDARD DRAINAGE DETAIL

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PROJECT: 00-0903
SHEET C-17 OF 18

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Application No: 080314-2

Permit No: 47-00652-P

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