



Florida's Warmest Welcome

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**City of Pompano Beach, Purchasing Division  
1190 N.E. 3rd Avenue, Building C  
Pompano Beach, Florida, 33060**

May 28, 2013

**ADDENDUM #1, RFP H-37-13  
FIXED BASE OPERATIONS AT THE POMPANO BEACH AIRPARK PARCEL X**

To Whom It May Concern,

The deadline for receipt of sealed proposals has been extended to 2:00 p.m. (local), June 19, 2013, in the City's Purchasing Office, 1190 N.E. 3rd Avenue, Building C, Pompano Beach, Florida, 33060.

Please review the following questions and City responses regarding the above Request for Proposal solicitation.

1. Land Bank (Para. 2 in the Introduction)- The City needs to provide further detailed clarification as to the specific FAA policies or regulations on land banking as mentioned in the Introduction Section of the Request for Proposal.

Response: With respect to Question #1, the FAA has advised that the granting of privileges to aeronautical service providers that amounts to "land banking" may constitute the constructive grant of an exclusive right. FAA policy is contained in Order 5190.6B, *Airport Compliance Manual*, at Section 8.7(b), which provides as follows: "When the service provider has space in excess of its *reasonable* needs and the sponsor claims it is justified based on the service provider's *future* needs, the FAA may find the sponsor in violation of the exclusive rights prohibition if the service provider is banking land and/or facilities that it cannot put to gainful aeronautical use in a reasonable period of time and/or the vacant property controlled by the service provider denies a competitor from gaining entry onto the airport." Section 8.9(d) of the Order essentially restates this policy. Apart from FAA policy, the City is permitted as the Air Park owner and operator to establish the requirements of the public solicitation to ensure the use of Air Park property that best advances the interests of the City and Air Park users.

2. Environmental Materials- Need the City to provide any / all environmental studies, inspections, reports related to identifying any/all known environmental matters with the Parcel X.

Response: There are no environmental studies or reports that staff is aware of pertaining to this parcel. Proposer is responsible to conduct their own inspections and testing.

3. Site Inspection-How can Sheltair personnel and it's 3<sup>rd</sup> party engineers/contractors gain access to the Parcel X site to perform the necessary due diligence site evaluations and inspections.

Response: Interested parties must contact the City Attorney's office (telephone 954-786-4614) to complete a hold harmless waiver before accessing the site; access to the site is available during normal business hours from 8am to 5pm Monday – Friday.

4. Master Storm Water Drainage System: Can the City provide confirmation that the entire Parcel X drainage is now incorporated into the Air Park's Master Storm Water Management Program. If so, please provide the appropriate documentation and/or drawings, permits etc.

Response: A copy of the Storm Water Permit and associated documents is posted with this addendum.

5. Rental: For the purpose of this Parcel X RFP, please provide the Monthly Rent for the entire Parcel X? What is the Land Rent on a per. sq. ft. basis?

Response: Currently the lease rate for Parcel "X" is equal to the rental rates for the two existing FBO's, Sheltair Aviation and Aviation Center of Pompano. This is currently .15 cents per square foot. If proposer is willing to provide additional rental revenue that would be considered.

6. Fuel Flowage: For the purpose of this Parcel X RFP, what is the per. gallon Fuel Flowage Fee?

Response: The fuel flowage fee is the same as the flowage fee currently paid by the lone fuel provider on the field, Sheltair Aviation, .05 cents per gallon pumped. If the proposer wishes to increase the fuel flowage fee as part of the proposal that would be considered.

7. Lease Commencement: Will the City provide a Construction Period within the Lease before any Rent is due and payable to the City? There is an approximate 6 month period required to design the project and obtain the necessary permits to commence construction.

Response: Lease payments start from the date of execution of the agreement by the City Commission. Leaseholder for the parcel has two years to construct at least 50% of the required capital expenditure with the remaining 50% to be completed by the end of the second two years. The same provisions are detailed in the FBO Minimum Standards Resolution 82-76 which is an exhibit in the RFP.

8. Can the City provide an Exhibit that shows all the aeronautical runway and taxiway approaches, protection zones, building restriction lines, obstacle free areas and or safety and Part 77 surface areas in order for Sheltair to determine our site and building layout plans to ensure no conflicts exist.

Response: The proposer can find all of this information in the 2008 Airpark Master Plan Update that is available on the City web page at [mypompanobeach.org](http://mypompanobeach.org). Click on Department link, click on Public works, Click on Airpark and the entire document can be found there.

9. Will the City be providing the necessary fill material to provide the successful proposer a suitable site for development?

Response: Currently there is approximately 15,000 CY of fill material available located on airport property for proposer to use if needed. Proposer will have to provide their own equipment for moving fill to the site. The fill material will be available for use until December 31, 2014; after this date the City anticipates issuing a solicitation to sell the clean fill to the highest bidder.

10. Will the City be responsible for removing the various trees on Parcel X to provide the successful proposer a suitable site for development?

Response: No, propose/developer will be responsible for removing various trees to develop site. Any mitigation required due to removal of said trees will be the responsibility of the developer.

11. Can the City provide the As-built construction documents for the inner perimeter security roadway, the fire hydrant locations as well as the location and capacity of the water and sewer systems up to the boundary of Parcel X.

Response: As built drawings for drainage, sanitary sewer, and reuse water mains are posted with this Addendum.

12. The June 5<sup>th</sup> 2:00 pm deadline for submitting sealed proposals is a rather aggressive time line for a proposer to complete a thorough due diligence on the site and prepare a detailed Proposal Response. Would the City consider extending the Submittal Deadline for an additional 2 weeks?

Response: Via this Addendum, the deadline for submittals is extended to 2:00 p.m., June 19, 2013.

13. Does the City have a "cone of silence" for talking to staff, City Officials, City Elected Officials or anyone representing the City? If so, please provide the effective date and time.

Response: The City does not have a cone of silence Ordinance. Our solicitations instruct interested parties to submit their questions in writing to Purchasing. Answers are provided via an addendum. Departments are discouraged from conducting private discussions with potential proposers while the City is in the process of requesting proposals.

Proposers should acknowledge receipt of this Addendum in the area provided on the RFP Proposal Signature page.

Very truly yours,

Leeta Hardin  
General Services Director

Enclosures

cc: website  
file



April 25, 2012

City of Pompano Beach - Office of City Engineer  
Attention: Alessandra Delfico, P.E.  
1201 NE 5th Ave  
Pompano Beach, FL 33060

RE: Pompano Beach Airpark Master Drainage Plan  
City of Pompano Beach, S/T/R (36-48-42)

This is to notify you of the Environmental Protection and Growth Management Department's (EPGMD) action concerning your application received 01/28/2011. The application has been reviewed for compliance with the following requirements:

**ERP Review - GRANTED**

EPGMD has the authority to review the project for compliance with Rule 40E-1.603 and Chapter 40E-40 of the Florida Administrative Code pursuant to an agreement between EPGMD, DEP and the SFWMD. The agreement is outlined in a document entitled "DELEGATION AGREEMENT AMONG THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT, AND BROWARD COUNTY."

Based on the information submitted, Environmental Resource Standard General Permit No. 06-06469-P was issued on 04/25/2012.

**Broward County Surface Water Management Review - GRANTED**

EPGMD has reviewed the project for compliance with the Surface Water Management requirements of Chapter 27, Article V Sec. 27-191 through 27-202 of the Broward County Code.

Based on the information submitted, Surface Water Management License No. SWM2012-016-0 was issued on 04/25/2012. The above named licensee is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents and specifications, as submitted by licensee, and made a part hereof.

Please be advised that no Certificate of Occupancy can be issued on this project until released, in writing, by all EPGMD divisions as required. Such release will be pending approval of any engineering certifications required by specific condition No. 15.

The above referenced approvals will remain in effect subject to the following:

1. Not receiving a filed request for a Chapter 120, Florida Statutes administrative hearing;
2. the attached SFWMD General Conditions;
3. the attached SFWMD Special Conditions;
4. the attached Broward County General Conditions;
5. the attached Broward County Specific Conditions;
6. the attached 16 exhibits.

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 action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the attached "Notice of Rights", we will assume you concur with the action taken by EPGMD.

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 04/25/2012, in accordance with Section 120.60 (3), Florida Statutes.

By: *Elissa Taylor*  
for Elissa Taylor, P.E.  
Surface Water Management Program

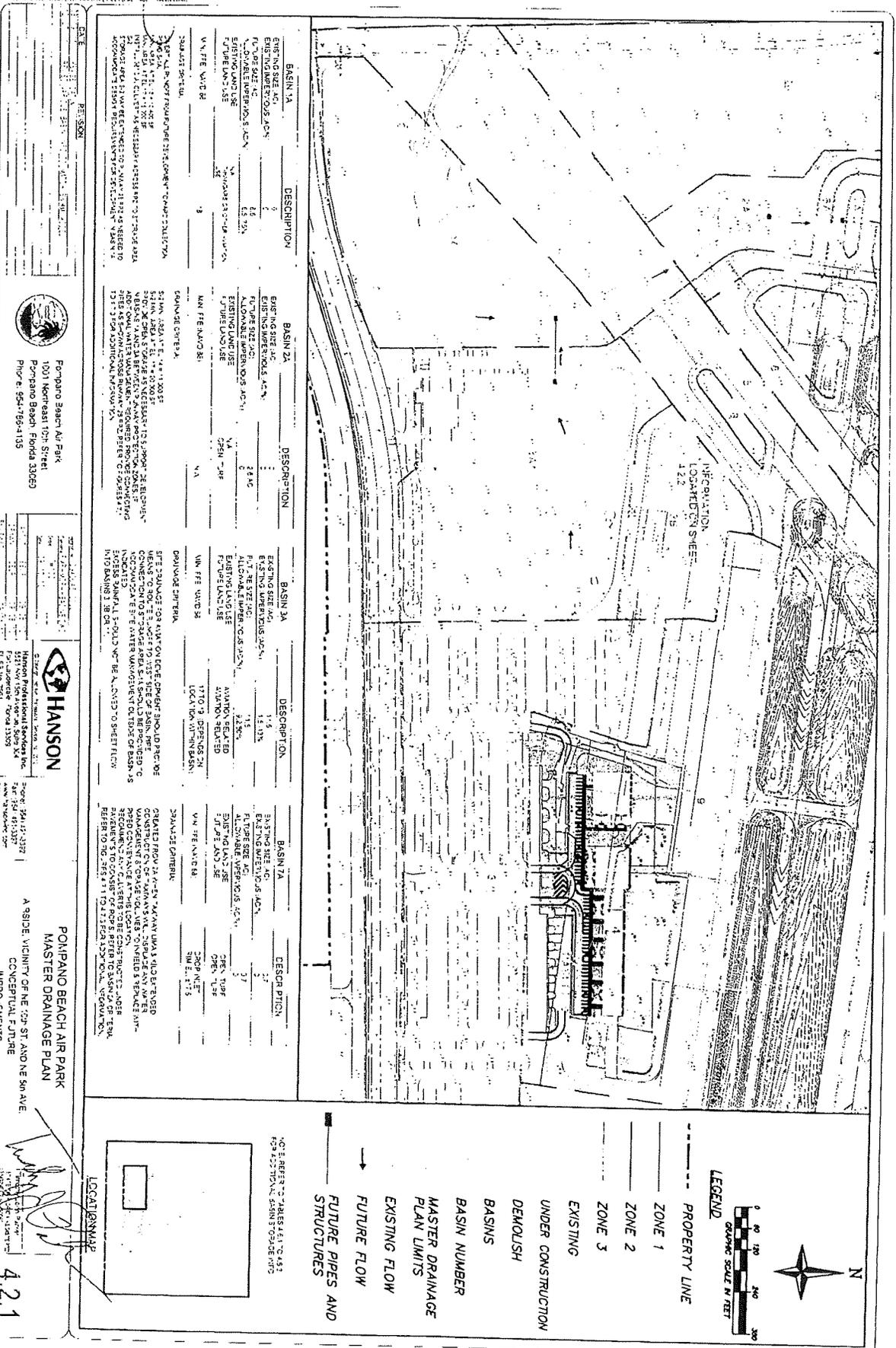
Enclosed are the following:

- executed staff report;
- set(s) of stamped and approved plans;
- application fee receipts;
- Notice of Rights; and
- Inspection Guidelines Brochure.

BROWARD COUNTY DEPARTMENT  
APPROPRIATE AGENCIES

DATE: 4.25.2012

BY: *Meredith* DATE: 4.25.2012



REVISION

NO.	DATE	DESCRIPTION
1	4/25/12	ISSUED FOR PERMITS
2	4/25/12	ISSUED FOR PERMITS
3	4/25/12	ISSUED FOR PERMITS
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5	4/25/12	ISSUED FOR PERMITS
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Pompano Beach Air Park  
1001 Northeast 10th Street  
Pompano Beach, Florida 33069  
Phone: 954-789-1133

DATE: 4/25/12  
TIME: 10:00 AM

**HANSON**  
Hanson Professional Services Inc.  
5521 NW 15th Ave, Suite 300  
Fort Lauderdale, FL 33309  
Tel: 954-581-3377  
Fax: 954-581-3377  
www.hansoninc.com

POMPAÑO BEACH AIR PARK  
MASTER DRAINAGE PLAN  
A 30' SIDE VICINITY OF NE 10th ST AND NE 50th AVE  
CONCEPTUAL FUTURE  
IMPROVEMENTS

DATE: 4.25.12  
TIME: 4:21

7



**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 latest date of the resolution of any Chapter 120.57, F.A.C., administrative proceeding or other legal appeals.
- (c) For an individual or standard general environmental resource permit, five years from the date of issuance or such amount of time as made a condition of the permit.
- (d) For a noticed general permit issued pursuant to chapter 40-E-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 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 reasonable expected to lead to substantially different water resource or environmental 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 subsection 40E-4.331 (2)(b), F.A.C. (Letter modifications) do not extend the duration of a 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.

## **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 Broward County Environmental Protection and Growth Management Department's (EPGMD, formerly known as Department of Planning and Environmental Protection or DPEP) action under the "Delegation Agreement Among the Florida Department of Environmental Protection, The South Florida Water Management District and Broward County" 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 an EPGMD decision which does or may determine their substantial interests shall file a petition for hearing with the EPGMD Environmental Compliance Administrator, within 21 days of receipt of written notice of the decision, unless the following shorter time period applies: 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 EPGMD has or intends to take final agency action, or publication of notice that the EPGMD has or intends to take final agency action. Any person who receives written notice of an EPGMD 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 EPGMD Enforcement Administration Section's Environmental Compliance Administrator. Filings with the Environmental Compliance Administrator may be made 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 Environmental Compliance Administrator, at the Broward County government offices in Plantation, Florida. Any document received by the EPGMD Enforcement Administration 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 Environmental Compliance Administrator, Enforcement Administration Section, 1 N University Drive, Suite 307, Plantation, FL 33324.
- Filings by hand-delivery must be delivered to the EPGMD Enforcement Administration Section. **Delivery of a petition to the Broward County security desk does not constitute filing. To ensure proper filing, it will be necessary to request the Broward County security officer to contact the Environmental Compliance Administrator's office.** An employee of the Environmental Compliance Administrator's office will receive and file the petition.
- Filings by facsimile must be transmitted to the EPGMD Enforcement Administration's Office at (954) 519-1493. 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 Environmental Compliance Administrator, as a result. The filing date for a document filed by facsimile shall be the date the Environmental Compliance Administrator, 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 EPGMD 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, EPGMD file number or any other EPGMD 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 EPGMD'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 EPGMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the EPGMD'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 EPGMD to take with respect to the EPGMD's proposed action.

A person may file a request for an extension of time for filing a petition. The EPGMD may, for good cause, grant the request. Requests for extension of time must be filed with the EPGMD 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 EPGMD and any other parties agree to or oppose 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 EPGMD 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 EPGMD 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 EPGMD action may seek judicial review of the EPGMD'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 Environmental Compliance Administrator within 30 days of rendering of the final EPGMD action.

## SFWMD 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 permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the supplied Environmental Resource Permit Construction Completion/Certification Form Number 0881. 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 is 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" drawing. 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, has 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 Applications within the South Florida Water Management District (August 1995) 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 40E1.6107, 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 (August 1995), prior to lot or unit sales or prior to the completion of the system, whichever occurs first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, where appropriate. For those systems which are proposed to be maintained by the 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. stated 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 sovereign 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(4), 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 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.

### **SFWMD Special Conditions**

1. 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.
2. Measures shall be taken during construction to insure that sedimentation and/or turbidity problems are not created in the receiving water.
3. 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.
4. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
5. The conditions outlined in the Broward County Specific Conditions section, except where language specifically relates to Broward County Code, are incorporated into these SFWMD Special Conditions.
6. Operation of the surface water management system shall be the responsibility of permittee.

## **Broward County General Conditions**

1. The terms, conditions, requirements, limitations and restrictions set forth herein are accepted by the licensee and must be completed by the licensee and are enforceable by the Environmental Protection and Growth Management Department (EPGMD) pursuant to Chapter 27 of the Broward County Code of Ordinances. The EPGMD will review this license periodically and may revoke or suspend the license, and initiate administrative and/or judicial action for any violation of the conditions by the licensee, its agents, employees, servants or representatives.
2. This license is valid only for the specific uses set forth in the license application and any deviation from the approved uses may constitute grounds for revocation, suspension, and/or enforcement action by the EPGMD.
3. In the event the licensee is temporarily unable to comply with any of the conditions of the license or with this chapter, the licensee shall notify the EPGMD within eight (8) hours or as stated in the specific section of this chapter. Within three (3) working days of the event, the licensee shall submit a written report to EPGMD that describes the incident, its cause, the measures being taken to correct the problem and prevent its reoccurrence, the owner's intention regarding the repair, replacement and reconstruction of destroyed facilities and a schedule of events leading toward operation with the license condition.
4. The issuance of this license does not convey any vested rights or exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations.
5. This license must be available for inspection on licensee's premises during the entire life of the license.
6. By accepting this license, the licensee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this licensed facility or activity, that are submitted to the EPGMD, may be used by the EPGMD as evidence in any enforcement proceeding arising under Chapter 27 of the Broward County Code of Ordinances, except where such use is prohibited by Section 403.111, Florida Statutes.
7. The licensee agrees to comply with Chapter 27 of the Broward County Code of Ordinances, and shall comply with all provisions of the most current version of this chapter, as amended.
8. Any new owner or operator of a licensed facility shall apply by letter for a transfer of license within thirty (30) days after sale or legal transfer. The transferor shall remain liable for performance in accordance with the license until the transferee applies for and is granted a transfer of license. The transferee shall be liable for any violation of Chapter 27 that results from the transferee's activities. The transferee shall comply with the transferor's original license conditions when the transferee has failed to obtain its own license.
9. The licensee, by acceptance of this license, specifically agrees to allow access and shall allow access to the licensed source, activity or facility at times by EPGMD personnel for the purposes of inspection and testing to determine compliance with this license and Chapter 27 of the Broward County Code of Ordinances.
10. This license does not constitute a waiver or approval of any other license, approval, or regulatory requirement by this or any other governmental agency that may be required.
11. Enforcement of the terms and provisions of this license shall be at the reasonable discretion of EPGMD, and any forbearance on behalf of EPGMD to exercise its rights hereunder in the event of any breach by the licensee, shall not be deemed or construed to be a waiver of EPGMD's rights hereunder.

## Broward County Specific Conditions

1. The licensee shall allow authorized personnel of the Development and Environmental Regulation Division (DER), municipality or local water control district to conduct such inspections at reasonable hours, as are necessary to determine compliance with the requirements of the license and the approved plans and specifications.
2. The responsible entity shall agree to maintain the operating efficiency of the water management works. Except in cases where the responsible entity is a governmental agency, the agreement shall further require that if the water management works is not adequately maintained, the County may undertake the required work and bill all associated costs to the responsible entity. If the payment for such obligations is not satisfied within 30 days, said obligation shall become a lien against the property associated with the water management works. Where ownership of the water management works is separate from property ownership, the DER shall require these agreements to be recorded.
3. The licensee shall prosecute the work authorized in a manner so as to minimize any adverse impact of the works on fish, wildlife, natural environmental values, and water quality. The licensee shall institute necessary measures during the construction period, including fill compaction of any fill material placed around newly installed structures, to reduce erosion, turbidity, nutrient loading and sedimentation in the receiving waters. Any erosion, shoaling or deleterious discharges due to permitted actions will be corrected promptly at no expense to the County.
4. The licensee shall comply with all applicable local land use and subdivision regulations and other local requirements. In addition, the licensee shall obtain all necessary Federal, State, local and special district authorizations prior to the start of any construction alteration of works authorized by this license.
5. Offsite discharges during construction and development shall be made only through the facilities authorized by this license. Water discharged from the project shall be through structures having a mechanism for regulating upstream water stages. Stages may be subject to operating schedules satisfactory to the appropriate regulatory agency.
6. The licensee shall hold and save the County harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance or use of any facility authorized by the license.
7. The license does not convey property rights nor any rights or privileges other than those specified therein.
8. No construction authorized by the license shall commence until a responsible entity acceptable to the DER has been established and has agreed to operate and maintain the efficiency of the system. The entity must be provided with sufficient ownership so that it has control over all water management facilities authorized therein. Upon receipt of written evidence of the satisfaction of this condition, the DER will issue authorization to commence the construction.
9. No beautification, or erection of any structure that will prohibit or limit access of maintenance equipment or vehicles in the right-of-way or easements will be allowed.
10. Any license which grants any entity the permission to place a structure on property which is owned by Broward County or upon which Broward County has an easement shall be construed to create a revocable license for that structure to remain on the property. Broward County may require removal of such a structure at no cost to the County.
11. The area under license will be maintained in a safe and operating condition at all times. Equipment will be promptly removed from the right-of-way or easement and the right-of-way or easement will be restored to its original or better condition within a reasonable time on termination of the authorized use.
12. The DER will be notified, as required in the license or as indicated on the approved plans, to coordinate and schedule inspections.
13. The operation or construction will be in accordance with the approved details and plans submitted with the application. Any modification must be submitted to the DER in writing and receive prior approval.
14. Monitoring may be required for sites with high pollutant generating potential, such as industrial sites, Class I and II solid waste disposal sites, and projects discharging to areas identified in Section 27-200 (b) (1) (o). Such monitoring will be under the cognizance of the DER.

15. Upon completion of the construction of a surface water management system or phase thereof licensed by the DER, it is a requirement of the issuance of the license, and hence transfer of operation and maintenance responsibility, that a Florida Registered Professional Engineer certify that the surface water management system was indeed constructed as licensed. Certified record drawings shall accompany the certification. Suggested wording for this is as follows:

I HEREBY CERTIFY TO THE CONSTRUCTION COMPLETION OF ALL THE COMPONENTS OF THE SURFACE WATER MANAGEMENT FACILITIES FOR THE ABOVE REFERENCES PROJECT AND THAT THEY HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE BROWARD COUNTY DER, AND HEREBY AFFIX MY SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
(SEAL)

16. Water management areas shall be legally reserved to the operation entity and for that purpose by dedication on the plat, deed restrictions, easements, etc., so that subsequent owners or others may not remove such areas from their intended use. Management areas, including maintenance easements, shall be connected to a public road or other location from which operation and maintenance access is legally and physically available.

17. The licensee shall notify the DER in writing within twenty-four (24) hours of the start, finish, suspension, and/or abandonment of any construction or alteration of works authorized by this license.

18. A prorated share of surface water management retention/detention areas, sufficient to provide the required flood protection and water quality treatment, must be provided prior to occupancy of any building or residence.

19. The operation license shall be valid for a specific period of time not to exceed five (5) years from the date the license is transferred to the operation phase. The operation license shall be renewed in accordance with Section 27 - 198 (d) (2) of the Article.

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

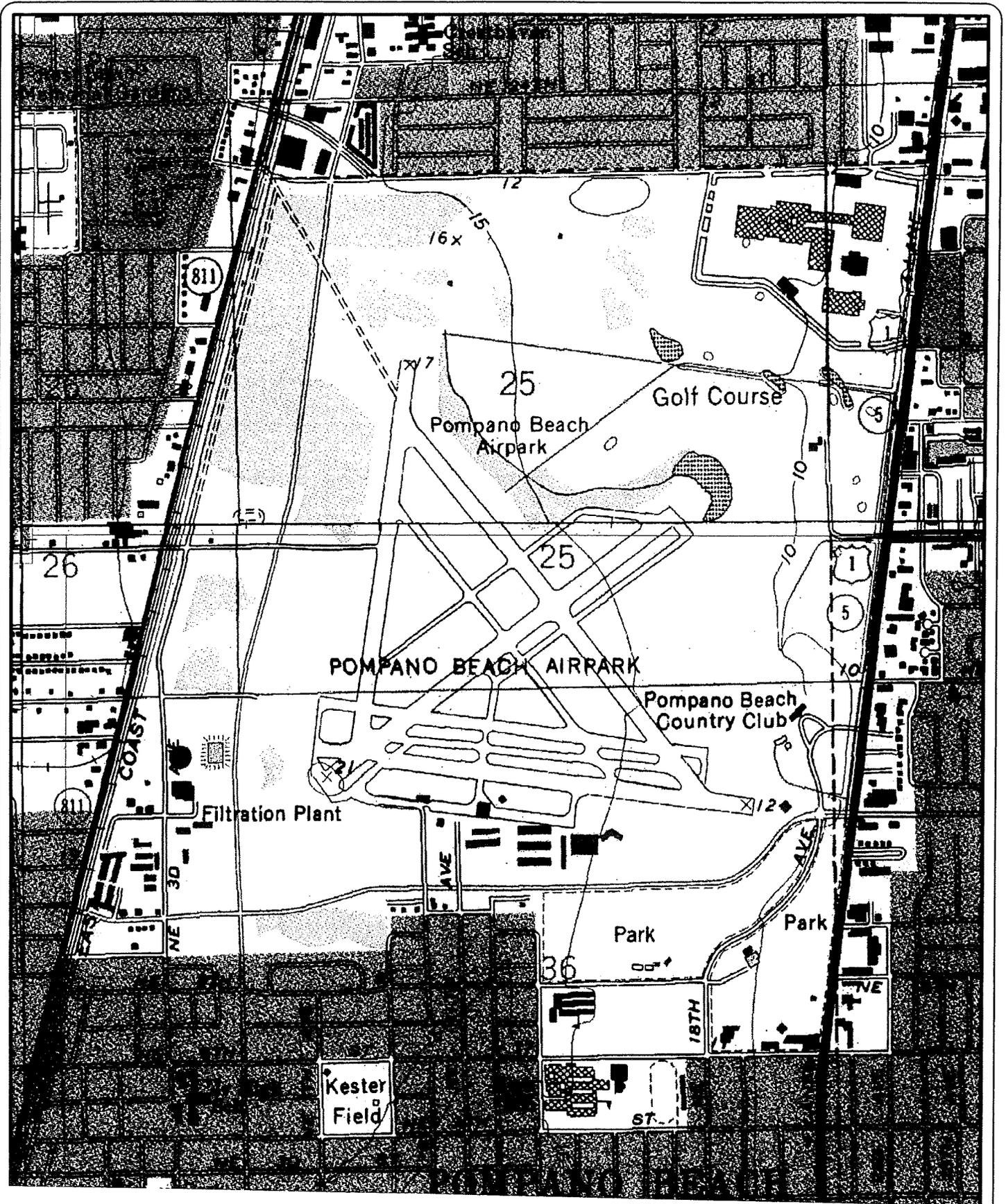
21. This permit does not constitute the approval required by Section 27-353(i), Broward County Code, to conduct dewatering operations at or within one-quarter mile radius of a contaminated site. Please contact the Pollution Prevention and Remediation Division at (954) 519-1260 for further information.

22. The licensee shall keep a log of the operation and maintenance schedule for all components of the surface water management system.

23. The surface water management system must be inspected by the Surface Water Management Section to verify compliance with Specific Condition No. 15 of the license. In accordance with the Broward County Natural Resource Protection Code, Article I, Sec. 27-66 (f), the County agency or municipal agency charged with issuing a certificate of occupancy (CO) shall not issue a CO until notified of the DER approval. Partial certifications will be handled in accordance with Specific Condition No. 18.

24. The licensee is advised that he/she is required to submit a Storm Water Notice of Intent (NOI) application at least 48 hours prior to the commencement of construction to the Florida Department of Environmental Protection, NPDES Stormwater Notices Center, MS #2510 at 2600 Blair Stone Road - Tallahassee, Florida 32399-2400.

25. Prior to the commencement of construction of a future phase(s), a license modification will be required.



## STAFF REPORT

**Project Name:** Pompano Beach Airpark Master Drainage Plan  
**Permit Number:** 06-06469-P                      **License Number:** SWM2012-016-0  
**Application Number:** 110128-8                      **Concurrent Application** L2011-011  
**Application Type:** New Environmental Resource  
**Location:** Broward County                      **Section-Township-Range:** 36-48-42  
**Permittee's Name:** City of Pompano Beach - Office of City Engineer

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**Project Area:** 604 acres                      **Drainage Area:** 604 acres  
**Project Land Use:** Institutional  
**Drainage Basin:** Coastal  
**Receiving Body:** On-site Retention

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### **Purpose:**

The conceptual approval of a surface water management system to serve the redevelopment of the existing 604 acre Pompano Beach Airpark facility.

### **Project Evaluation:**

#### **Project Site Description:**

The site is presently developed containing 119.8 acres of paved/impervious area and 8.2 acres of building area with no formal surface water management system for water quality treatment of storm runoff. The airpark is located north of NE 10th Street and west of Federal Highway, (US 1).

#### **Proposed Project Design:**

The conceptual approval of a surface water management system to serve an existing 604 acre municipal airpark. The system will consist of swales, inlets and culverts which will direct the storm runoff to a series of dry retention areas (DRAs) for water quality treatment and storm runoff attenuation.

The proposed system has been divided into basins as shown on Exhibit 15 (plan sheet 4.2.8). The basins are further broken down into subcatchments. The development parameters for each basin and subcatchment are shown in Exhibits 3 through 6 (Tables 4.6.1 through 4.6.3 of "Pompano Beach Airpark Master Drainage Plan, Phase I, dated March 5, 2012) and Exhibits 7 through 14 (plan sheets 4.2.1 through 4.2.7). Each individual phase of development must provide a prorata share of the master surface water management system, including an appropriate acreage of DRAs and the necessary system components. Prior to commencement of construction of future phases, a modification must be obtained which shows that the proposed project is in substantial compliance with the master conceptual permit criteria.

The final buildout of the airpark improvements will result in 4.3 acres of new building area for a total of 12.2 acres, 39.8 acres of additional paved/taxiway area for a total of 147.1 acres and the completed surface water management system as approved under this conceptual permit. The applicant's consultant has demonstrated through plans and calculations that no adverse water quality or water quantity impacts will occur as a result of the proposed project.

2A

**Water Quality Design:**

Water quality treatment will be provided in the proposed dry retention area system. Each development must provide its prorata share of dry retention areas as required by basin group and subcatchment.

**Environmental Summary:**

No wetland areas were identified within the project area and no wetland impacts are anticipated from the development of this parcel. Therefore, no wetland mitigation requirements have been included in the permit for this project.

The proposed activities have been evaluated for potential secondary and cumulative impacts and to determine if the project is contrary to the public interest. Based upon the proposed project design, DER has determined that the project will not cause adverse secondary or cumulative impacts to the water resources and is not contrary to the public interest.

2B

**Special Concerns:**

**Operating Entity:** City of Pompano Beach - Office of City Engineer  
Attention: Alessandra Delfico, P.E.  
1201 NE 5th Ave  
Pompano Beach, FL 33060

**Waste Water System/Supplier:** BCUD #4

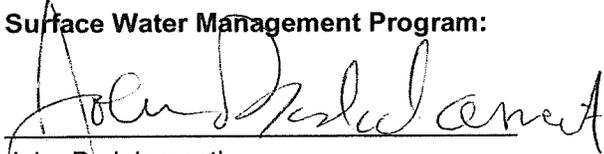
2c

**STAFF RECOMMENDATION:**

South Florida Water Management District and Broward County rules have been adhered to and a General Permit should be granted.

**SWM2012-016-0, STAFF REVIEW:**

**Surface Water Management Program:**

  
\_\_\_\_\_  
John Badalamenti

  
\_\_\_\_\_  
Elissa Taylor, P.E.

**Aquatic and Wetland Resources Program:**

  
\_\_\_\_\_  
Linda Sunderland, Manager

**TABLE 4.6.1**  
**FUTURE CONDITION SUBCATCHMENT**  
**SUMMARY BY BASIN GROUP**

**FOR**

**POMPANO BEACH AIRPARK**  
**MASTER DRAINAGE PLAN, PHASE I**

MAR 08 2012

Table 4.6.1 Future Condition Subcatchment  
Summary by Basin Group

Basin Group	Subcatch. Basin	Total Area (acres)	Maximum Impervious Area (acres)	Basin Low Point (ft 1988 NAVD)	Avg. Ground Surface Elev. (ft 1988 NAVD)	Typ. Pavement or Structure Elev. (ft 1988 NAVD)	Storage Vol Available (cf)	Storage Node Name
SW	1	7.3	0.2	14.5	17	18	258440	S-1
SW	2	12	0.7	14.5	16.5	18		S-1
SW	11	4.7	1.5	14.5	16.8	18		S-1
SW	16	8.5	2.1	14.5	19	19.5		S-1
SW	17	3.9	2.8	14.5	17.5	18		S-18
SW	18	16.1	1	14.5	17	18	83260	S-18
SW	19	2.4	1.7	14.5	18	18.5		S-18
1	1A	8.6	6.5	15	18	19	25400	S-1A
1	2A	2.6	0	14	18	18.5	47850	S-2
1	3A	11.5	9.2	8	18	18.5		S-1A
1	6A	1.1	0.5	14	18	18.5		S-2
1	20	4.3	2.5	11	15.5	16.5		S-21
1	21	10.2	0	11	14.8	16.5	1567880	S-21
1	22	4	2.5	11	15.4	16.5		S-23
1	23	7.8	0	11	14.8	16.5	1271669	S-23
1	40	3.9	2.3	11	14.4	16.5		S-41
1	41	5	0	11	13	16.5	628921	S-41
1	52	2.2	1.5	13.2	15	17.2		S-53
1	53	1	0	13.2	14	17.2	156662	S-53
1	57A	2.7	1.8	12.5	17	18		S-57
1	57	1.4	0	14.5	16.5	18	220994	S-57
1	62	0.9	0	11	16	16.5	1271669	S-23
1	63	2.1	1.5	11	17	17.5		S-23
1	72	5.9	4.3	10.5	15	16		S-41A
1	73	2.8	0	10.5	13	16	349843	S-41A
2	3	19.2	13.6	8	14	14.5		S-12S
2	9A	7.7	7.1	8	12.6	13.1		S-12S
2	10	6.6	2.4	8	15.5	16		S-12S
2	12	11.6	5.2	7.5	9	12.5	347650	S-12S
2	12A	3.6	0.2	7	9.5	11.5	150302	S-12
3	3B	3.5	1.1	11	16	16.5	133045	S-3B
3	4	2.6	2.2	9	13.8	15.5	21541	S-4
3	5	3.2	2.3	12.5	17	17.5		S-3B
3	6	3.8	2.9	13.5	18	18.5		S-7
3	7	1	0	13.5	17	17.5	44534	S-7
3	8	0.4	0	12.5	17	17.5	133045	S-3B
3	9	11	9.4	11	14	15.5		S-4
3	14	4	3.1	13.5	18	18.5		S-7

Table 4.6.1 Future Condition Subcatchment  
Summary by Basin Group

3	15	0.8	0	13.5	17	17.5	44534	S-7
3	28	8.5	6.3	9.9	14.5	15.4		S-29
3	29	3	0	9.9	12	15.4	655205	S-29
3	30	9	6.3	8	14.4	15.2		S-31
3	31	2	0	8	12.5	15.2	607391	S-31
3	32	1.5	1.3	9.5	10.5	12	23236	S-32
3	60	1.9	1.3	9.5	12	14.5		S-61
3	61	0.7	0	9.5	10	14.5	38436	S-61
3	74	0.2	0	10.5	12	13.5	103678	S-74
3	75	1.7	1.3	10.5	13	13.5		S-74
4	24	1.8	1.1	11	14.4	15.5		S-24
4	25	1.6	0	11	13.8	15.5	115000	S-24
4	26	3.9	3.1	11	14	15.5		S-37
4	27	0.7	0	11	13.8	15.5		S-37
4	34	1.6	1.2	11	13.5	15.5		S-37
4	35	0.3	0	11	13.5	15.5		S-37
4	36	1.5	0.8	11	13.5	15.5		S-37
4	37	1.6	0	11	13.5	15.5	228291	S-37
4	38	3.9	2.5	10	13.5	14.5		S-39
4	39	2.6	0	10	13	14.5	213750	S-39
4	42	5.1	3.7	11	13.5	15		S-43
4	43	6.8	0	11	13	15	397200	S-43
4	44	4.8	3.4	12.7	14.5	15.2		S-45
4	45	1.3	0	12.7	13.5	15.2	34985	S-45
4	54	0.23	0	11.5	14	15	51500	S-27
4	58	2.17	1.5	11.5	14	15		S-27
4	64	2.7	1.9	11	14	15.5		S-37
4	65	1.4	0	11	13	15.5	228291	S-37
4	66	4	3	10.5	14	15		S-39A
4	67	1.5	0	10.5	13	15	284229	S-39A
4	68	2.1	1.5	11	15	15.5		S-24
4	69	0.8	0	11	13	15.5	115000	S-24
NW	17A	4.8	3.8	12.5	17.5	18		S-50
NW	19A	5.4	4	12.5	16	18		S-50
NW	50	78.4	8.6	12.5	16.5	18	1461677	S-50
NW	51	8.2	0.4	12.5	16.8	18		S-50
NE	48	1.4	1	13.5	15.5	16.5	389510	S-48A
NE	48A	6	4.1	10.5	13.9	16	274590	S-48
NE	55	30	4.4	5.2	13.5	14	1714243	Pond
NE	56	35	0.7	10	15	15.5	1572160	S-48B
SE	13	9.6	0.9	5.4	9.3	9.8	102944	S-13
SE	33	0.6	0.3	5.4	10	10.5		S-13
SE	46	2.7	1.7	10	14	14.5	55000	S-46

Table 4.6.1 Future Condition Subcatchment  
Summary by Basin Group

SE	46A	2.4	1.4	10	14	14.5		S-46A
SE	47	49.9	0	10	11.5	13	248000	S-46A

**TABLE 4.6.2  
STORAGE AREA  
SUMMARY BY BASIN GROUP**

**FOR**

**POMPANO BEACH AIRPARK  
MASTER DRAINAGE PLAN, PHASE I**

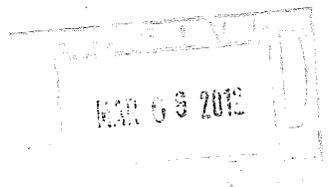


Table 4.6.2 Storage Area Summary  
by Basin Group

Basin Group	Subcatch. Basin	Storage Basin Invert (ft 1988 NAVD)	Top of Bank Elev. (ft 1988 NAVD)	Typ. Pavement or Structure Elev. (ft 1988 NAVD)	Storage Vol. Available (cf)	Storage Node Name	Invert Area (sf)	Top of Bank Area (sf)
SW	1	15	17	18	258440	S-1	9250	285119
SW	2			18		S-1		
SW	11			18		S-1		
SW	16			19.5		S-1		
SW	17			18		S-18		
SW	18	15	17	18	83260	S-18	18558	63883
SW	19			18.5		S-18		
1	3A			18.5		S-1A		
1	1A	15	17	19	25400	S-1A	10400	15000
1	2A	14	17	18.5	47850	S-2	11900	20000
1	6A			18.5		S-2		
1	7A			18		S-7		
1	14A			18		S-7		
1	15A	15	16	18	14000	S-7	8000	20000
1	57	12.5	15.5	18	334855	S-57	41601	181636
1	57A			18		S-57		
1	22			16.5		S-23		
1	23	11	15	16.5	1103718	S-23	34685	517174
1	62			16.5		S-23		
1	63			17.5		S-23		
1	20			16.5		S-21		
1	21	11	15	16.5	1277512	S-21	27936	610820
1	40			16.5		S-41		
1	41	11	14.5	16.5	495742	S-41	21921	261360
1	72			16		S-41A		
1	73	12	14.5	16	411810	S-41A	76800	252648
1	52			17.2		S-53		
1	53	14	16	17.2	154138	S-53	31159	122979
2	3			14.5		S-12S		
2	9A			13.1		S-12S		
2	10			16		S-12S		
2	12	7.5	11	12.5	507500	S-12S	125000	165000
2	12A	7	10	11.5	120421	S-12	15000	65281
3	3B	12.5	16	16.5	156625	S-3B	4000	85500
3	5			17.5		S-3B		
3	8			17.5		S-3B		
3	4	11	13	15.5	24749	S-4	370	24379
3	9			15.5		S-4		
3	6			18.5		S-6A		

Table 4.6.2 Storage Area Summary  
by Basin Group

3	7	14	17	17.5	75000	S-6A	20000	30000
3	14			18.5		S-6A		
3	15			17.5		S-6A		
3	30			15.2		S-31		
3	31	10	14	15.2	965170	S-31	3585	479000
3	28			15.4		S-29		
3	29	10	14	15.4	706168	S-29	3435	349649
3	74	11	12.5	13.5	92198	S-74	17931	105000
3	75			13.5		S-74		
3	32	10	11	12	20576	S-32	10641	30511
3	60			14.5		S-61		
3	61	11	13	14.5	68865	S-61	702	68163
4	26			15.5		S-37		
4	27			15.5		S-37		
4	34			15.5		S-37		
4	35			15.5		S-37		
4	36			15.5		S-37		
4	37	11	14	15.5	261360	S-37	60984	113256
4	64			15.5		S-37		
4	65			15.5		S-37		
4	38			14.5		S-39		
4	39	10	13	14.5	210000	S-39	50000	90000
4	54	11.5	13.5	15	53000	S-27	18000	35000
4	58			15		S-27		
4	66			15		S-39A		
4	67	10.5	13.5	15	284229	S-39A	65340	124146
4	24			15.5		S-24		
4	25	11	14	15.5	90000	S-24	10000	50000
4	68			15.5		S-24		
4	69			15.5		S-24		
4	42			15		S-43		
4	43	11	13	15	397600	S-43	180000	217600
4	44			15.2		S-45		
4	45	13	14	15.2	34210	S-45	5164	63256
NW	17A			18		S-50		
NW	19A			18		S-50		
NW	50	12.5	16.5	18	1860000	S-50	30000	900000
NW	51			18		S-50		
NE	48	13.5	15	16.5	415127	S-48A	195285	358218
NE	48A	12	14	16	270584	S-48	25584	245000

Table 4.6.2 Storage Area Summary  
by Basin Group

NE	56	10	15	15.5	1615000	S-48B	126000	520000
NE	55	6	13.5	14	2404804	Pond	191281	450000
SE	13	6	8	9.8	162098	S-13	5423	156675
SE	33			10.5		S-13		
SE	46	10	12	14.5	50000	S-46	10000	40000
SE	46A			14.5		S-46A		
SE	47	10	12	13	248000	S-46A	108000	140000

**TABLE 4.6.3  
EXISTING AND FUTURE  
BASIN INPUT SUMMARY**

**FOR**

**POMPANO BEACH AIRPARK  
MASTER DRAINAGE PLAN, PHASE I**

MAR 03 2012

Table 4.6.3 Existing and Future  
Basin Input Summary

Future Subcatch. Basin	Node/Outlet Name	Total Area (acres)	Design Impervious Area (ac/%)	Max. Travel Length (ft)	Basin Width (ft)	Existing Subcatch. Basin	Node/Outlet Name	Total Area (acres)	Design Impervious Area (ac/%)	Max. Travel Length (ft)	Basin Width (ft)
1	S-1	6.7	0.2/3%	978	325	1	S-1	14.8	0/0%	955	675
1A	S-1A	8.1	6/75%	N/A	350	Originally part of subcatchment 1					
2	S-1	12	0.7/6%	523	1000	2	S-1	17.5	0.17/1%	762	1000
2A	S-2	2.6	0/0%	226	500	Originally part of subcatchment 2					
3	S-12S	19.2	13.6/71%	N/A	470	3	S-12	19.2	13.6/71%	N/A	470
3A	S-1A	11.5	9.2/80%	834	580	3A	S-3A	11.5	1.5/13%	834	580
3B	S-3B	3.5	1.1/30%	610	250	3B	S-3B	3.5	0.63/18%	610	250
4	S-4	2.6	2.2/85%	N/A	406	4	S-4	2.6	0.7/3%	279	406
5	S-3B	3.2	2.3/72%	N/A	830	5	S-3B	3.2	2.3/72%	N/A	830
6	S-6A	3.8	2.7/74%	N/A	1150	6	S-7	3.8	2.7/74%	N/A	1150
6A	S-2	4.3	2.5/57%	N/A	3300	Originally part of subcatchment 2					
7	S-6A	0.7	0/0%	126	242	7	S-7	0.7	0/0%	126	242
7A	S-7	0.68	0.54/80%	N/A	500	Originally part of subcatchment 2					
8	S-3B	0.4	0/0%	290	60	8	S-3B	0.4	0/0%	290	60
9	S-4	11	10/85%	N/A	1750	9	S-4	11	9.4/85%	N/A	1750
9A	S-12S	7.7	7.1/92%	N/A	610	9A	S-12	7.7	7.1/92%	N/A	610
10	S-12S	6.6	2.4/36%	N/A	350	10	S-12	6.6	2.4/34%	821	350
11	S-1	4.7	1.5/31%	N/A	125	11	S-1	5.8	1.45/25%	2021	125
12	S-12S	11.6	5.2/45%	N/A	550	12	S-12	15.2	0.5/3%	1203	550
12A	S-12	3.6	0.2/5%	N/A	102	Originally part of subcatchment 12					
13	S-13	9.6	0.9/7%	1195	350	13	S-13	9.6	0.9/7%	1195	350
14	S-6A	2.97	2.29/77%	N/A	1400	14	S-7	2.8	2.1/75%	N/A	1150
14A	S-7	1.03	0.77/75%	N/A	600	Originally part of subcatchment 2					
15	S-6A	0.6	0/0%	231	113	15	S-7	0.6	0/0%	231	113
15A	S-7	0.3	0/0%	201	65	Originally part of subcatchment 2					
16	S-1	8.5	2.04/24%	N/A	250	16	S-1	8.5	2.04/24%	N/A	250
17	S-18	3.9	2.8/73%	N/A	1770	17	S-1	3.9	2.8/73%	N/A	1770
17A	S-50	4.8	3.8/76%	N/A	1950	17A	S-50	4.8	3.8/76%	N/A	1950
18	S-18	16.1	1/6%	N/A	1000	18	S-1	19.8	0.4/2%	862	1000
19	S-18	2.4	1.7/70%	N/A	1000	19	S-1	2.8	2.1/74%	N/A	1100
19A	S-50	5.4	4/74%	N/A	2500	19A	S-50	5.4	4/74%	N/A	2500

Table 4.6.3 Existing and Future  
Basin Input Summary

20	S-21	4.3	2.5/57%	N/A	3300	20	S-23	4.3	2.5/57%	N/A	3300
21	S-21	10.2	0/0%	701	634	21	S-23	10.2	0/0%	701	634
22	S-23	4	2.5/62%	N/A	2650	22	S-23	5.1	3.4/66%	N/A	3050
23	S-23	7.8	0/0%	803	423	23	S-23	9.7	0/0%	999	423
24	S-24	1.8	1.1/61%	N/A	1100	24	S-24	3.1	2.2/71%	N/A	1600
25	S-24	1.6	0/0%	164	426	25	S-24	3.2	0/0%	327	426
26	S-37	3.7	3/79%	N/A	2750	26	S-37	3.71	2.7/74%	N/A	1500
27	S-37	0.7	0/0%	203	150	27	S-37	0.89	0/0%	144	270
28	S-29	8.5	6.3/74%	N/A	4000	28	S-29	8.5	5.9/69%	N/A	4275
29	S-29	3	0/0%	1742	75	29	S-29	3	0/0%	1742	75
30	S-31	9	6.3/70%	N/A	5000	30	S-31	9	6.3/69%	N/A	5000
31	S-31	2	0/0%	1025	85	31	S-31	2.1	0/0%	1076	85
32	S-32	1.5	1.3/85%	N/A	134	32	S-32	1.5	1.3/81%	N/A	134
33	S-13	0.6	0.3/54%	N/A	375	33	S-13	0.6	0.3/54%	N/A	375
34	S-37	1.6	1.2/78%	N/A	530	34	S-37	1.4	1/71%	N/A	730
35	S-37	0.3	0/0%	131	100	35	S-37	0.5	0/0%	141	155
36	S-37	1.5	0.8/54%	N/A	1225	36	S-37	2.9	1.8/62%	N/A	2000
37	S-37	1.6	0/0%	279	250	37	S-37	4.3	0/0%	375	500
38	S-39	3.9	2.5/65%	N/A	3100	38	S-39	5.5	3.85/70%	N/A	3000
39	S-39	2.6	0/0%	249	455	39	S-39	8.4	0/0%	804	455
40	S-41	2.8	1.7/60%	N/A	2650	40	S-41	7.2	5.26/73%	N/A	3500
41	S-41	5	0/0%	551	395	41	S-41	10.4	0/0%	1147	395
42	S-43	5.1	3.7/72%	N/A	2550	42	S-43	5.1	3.7/72%	N/A	2550
43	S-43	6.8	0/0%	769	385	43	S-43	6.8	0/0%	769	385
44	S-45	4.8	3.4/70%	N/A	2550	44	S-45	4.8	3.4/70%	N/A	2550
45	S-45	1.3	0/0%	1068	53	45	S-45	1.3	0/0%	1068	53
46	S-46	2.7	1.7/64%	N/A	1600	46	S-46	3.39	2.5/75%	N/A	1510
46A	S-46A	2.4	1.4/57%	N/A	1490	46A	S-46A	2.4	1.4/57%	N/A	1490
47	S-46A	49	0/0%	1449	1500	47	S-46A	50.8	0/0%	1475	1500
48	S-48A	1.4	1/73%	102	600	48	S-48A	1.4	1/73%	102	600
48A	S-48	6	4.1/69%	N/A	3000	48A	S-48	6	4.1/69%	N/A	3000
50	S-50	78.4	8.6/11%	1708	2000	50	S-50	78.4	0.78/1%	1708	2000
51	S-50	8.2	0.4/5%	476	750	51	S-50	8.2	0/0%	476	750

Table 4.6.3 Existing and Future

Basin Input Summary

52	S-53	2.2	1.5/69%	N/A	1200	52	S-53	2.2	1.5/69%	N/A	1200
53	S-53	1	0/0%	415	105	53	S-53	1	0/0%	415	105
54	S-27	0.23	0/0%	134	75	Originally designated subcatchment 57					
55	Pond	30	4.4/14.6%	N/A	290	55	Pond	30	4.4/14.6%	N/A	290
56	S-488	35	0.7/2%	1455	1048	56	S-488	35	0.7/2%	1455	1048
57	S-57	1.4	0/0%	391	156	57	S-27	0.34	0/0%	148	100
57A	S-57	2.7	1.8/68%	N/A	1400	Originally part of subcatchment 18					
58	S-27	2.11	1.5/72%	N/A	600	58	S-27	2	1.3/67%	N/A	800
60	S-61	1.9	1.3/71%	N/A	875	Originally part of subcatchment 46, 47					
61	S-61	0.7	0/0%	277	110	Originally part of subcatchment 46, 47					
62	S-23	0.9	0/0%	302	130	Originally part of subcatchment 22, 23					
63	S-23	2.1	1.5/72%	N/A	960	Originally part of subcatchment 22, 23					
64	S-37	2.7	1.9/71%	N/A	1375	Originally part of subcatchment 36, 37					
65	S-37	1.4	0/0%	508	120	Originally part of subcatchment 36, 37					
66	S-39A	4	3/74%	N/A	1650	Originally part of subcatchment 38, 39					
67	S-39A	1.5	0/0%	297	220	Originally part of subcatchment 38, 39					
68	S-24	2.1	1.5/72%	N/A	940	Originally part of subcatchment 24, 25					
69	S-24	0.8	0/0%	240	145	Originally part of subcatchment 24, 25					
72	S-41A	4.9	2.6/73%	N/A	2900	Originally part of subcatchment 40, 41					
73	S-41A	2.8	0/0%	1109	110	Originally part of subcatchment 40, 41					
74	S-74	0.2	0/0%	50	174	Originally part of subcatchment 38, 39					
75	S-74	1.7	1.3/75%	N/A	950	Originally part of subcatchment 38, 39					

Note: Where Travel length is designated N/A, basin width is determined using length of pavement edge in basin; otherwise, width is area divided by travel length

# MODEL SCHEMATICS

FOR

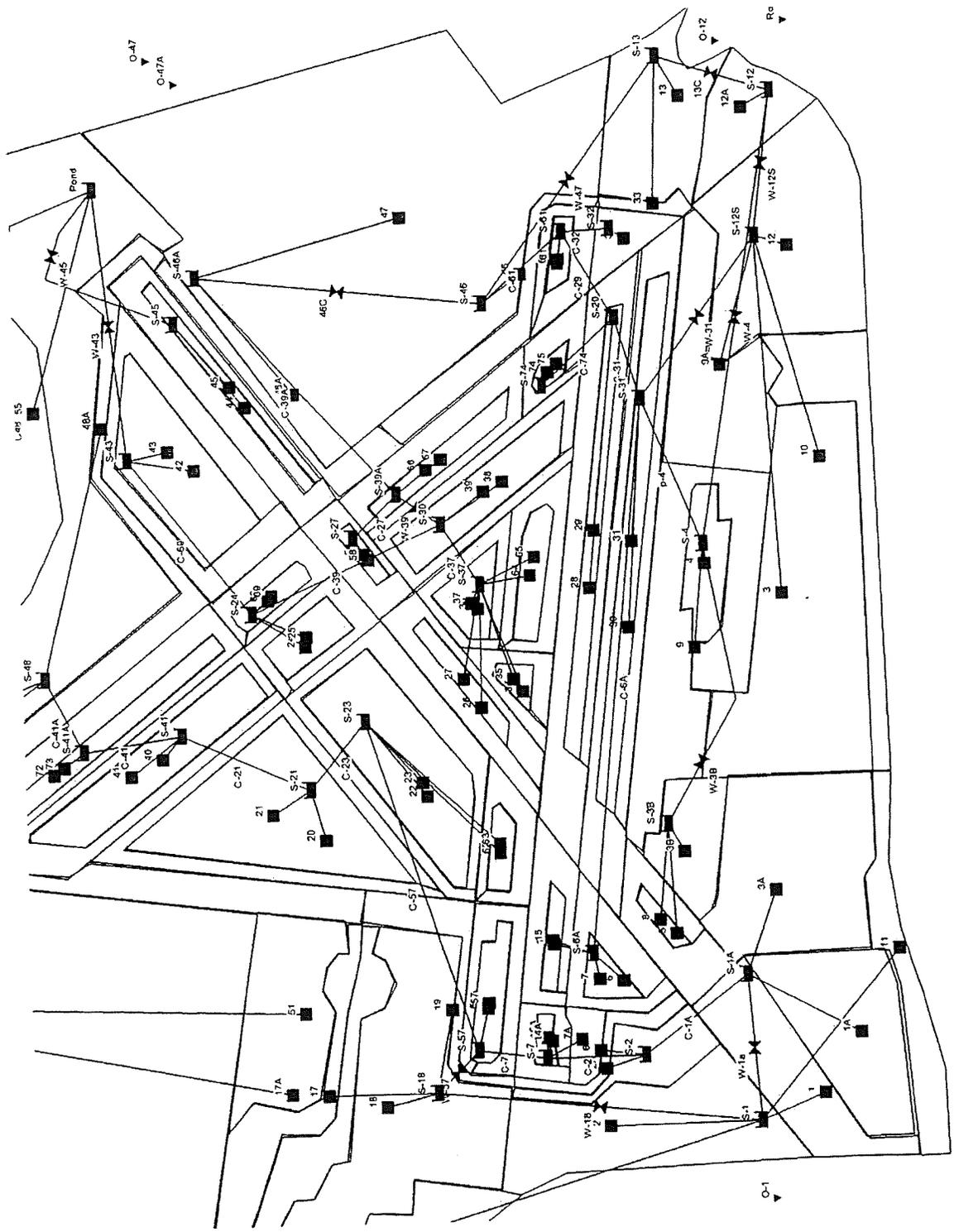
## POMPANO BEACH AIRPARK MASTER DRAINAGE PLAN, PHASE I

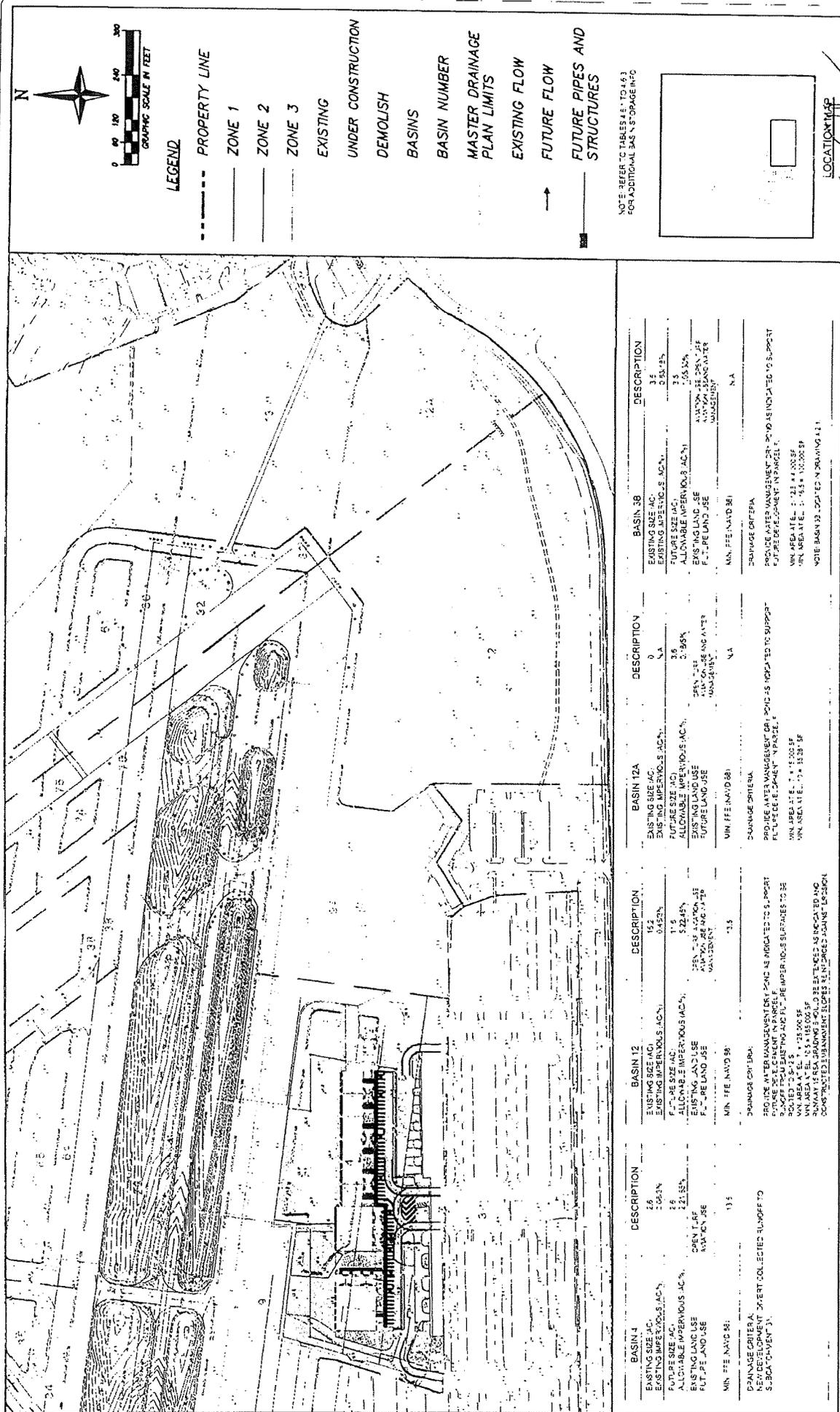
1. Existing Condition (on aerial)
2. Future Condition Results

NOV 03 2012

6

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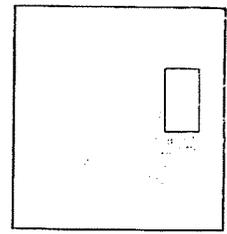




**LEGEND**

- PROPERTY LINE
- ZONE 1
- ZONE 2
- ZONE 3
- EXISTING
- UNDER CONSTRUCTION
- DEMOLISH
- BASINS
- BASIN NUMBER
- MASTER DRAINAGE PLAN LIMITS
- EXISTING FLOW
- FUTURE FLOW
- FUTURE PIPES AND STRUCTURES

NOTE: REFER TO TABLES A.1 TO A.3 FOR ADDITIONAL BASIN STORAGE INFO



LOCATION MAP

BASIN 1	BASIN 12	BASIN 12A	DESCRIPTION	BASIN 38	DESCRIPTION
<p>EXISTING SIZE (AC): 2.634</p> <p>EXISTING IMPERVIOUS (AC): 0.0634</p> <p>FUTURE SIZE (AC): 2.115</p> <p>ALLOWABLE IMPERVIOUS (AC): 1.7245</p> <p>EXISTING LAND USE: PARKING</p> <p>FUTURE LAND USE: PARKING</p> <p>MIN. FFE (NAVD 88): 13.5</p> <p>DRAINAGE CRITERIA: NEW DEVELOPMENT, 30-MIN. COLLECTED RUNOFF TO SUB-CATCHMENT 3.</p>	<p>EXISTING SIZE (AC): 132</p> <p>EXISTING IMPERVIOUS (AC): 0.4523</p> <p>FUTURE SIZE (AC): 11.9</p> <p>ALLOWABLE IMPERVIOUS (AC): 7.2145</p> <p>EXISTING LAND USE: PARKING</p> <p>FUTURE LAND USE: PARKING</p> <p>MIN. FFE (NAVD 88): 13.5</p> <p>DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT DRY POND AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN PARCEL 1.</p>	<p>EXISTING SIZE (AC): 0</p> <p>EXISTING IMPERVIOUS (AC): N/A</p> <p>FUTURE SIZE (AC): 3.6</p> <p>ALLOWABLE IMPERVIOUS (AC): 3.954</p> <p>EXISTING LAND USE: PARKING</p> <p>FUTURE LAND USE: PARKING</p> <p>MIN. FFE (NAVD 88): N/A</p> <p>DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT DRY POND AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN PARCEL 1.</p>	<p>EXISTING SIZE (AC): 31</p> <p>EXISTING IMPERVIOUS (AC): 0.5145</p> <p>FUTURE SIZE (AC): 3.5</p> <p>ALLOWABLE IMPERVIOUS (AC): 3.5</p> <p>EXISTING LAND USE: PARKING</p> <p>FUTURE LAND USE: PARKING</p> <p>MIN. FFE (NAVD 88): N/A</p> <p>DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT DRY POND AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN PARCEL 1.</p>	<p>EXISTING SIZE (AC): 31</p> <p>EXISTING IMPERVIOUS (AC): 0.5145</p> <p>FUTURE SIZE (AC): 3.5</p> <p>ALLOWABLE IMPERVIOUS (AC): 3.5</p> <p>EXISTING LAND USE: PARKING</p> <p>FUTURE LAND USE: PARKING</p> <p>MIN. FFE (NAVD 88): N/A</p> <p>DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT DRY POND AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN PARCEL 1.</p>	

**HANSON**

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FILED: 08/15/12

**POMPANO BEACH AIR PARK**

**MASTER DRAINAGE PLAN**

SEE AIRSIDE, VICINITY OF NE 10th STREET AND AIRFIELD IMPROVEMENTS

CONCEPTUAL FUTURE IMPROVEMENTS

DATE: 08/15/12

REVISION: 01



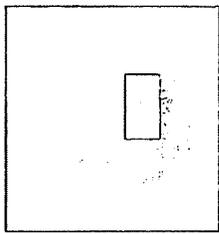




**LEGEND**

- PROPERTY LINE
- ZONE 1
- ZONE 2
- ZONE 3
- EXISTING
- UNDER CONSTRUCTION
- DEMOLISH
- BASINS
- BASIN NUMBER
- MASTER DRAINAGE PLAN LIMITS
- EXISTING FLOW
- FUTURE FLOW
- FUTURE PIPES AND STRUCTURES

NOTE: REFER TO TABLES A6, TO A8,3 FOR ADDITIONAL BASIN SIZING INFO



LOCATION MAP

4.2.4A

POMPANO BEACH AIR PARK  
MASTER DRAINAGE PLAN  
EAST OF RUNWAY 15-33 AND SOUTH OF TAXIWAY 'A'

CONCEPTUAL FUTURE IMPROVEMENTS

DATE: 11/12/12  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: AS SHOWN

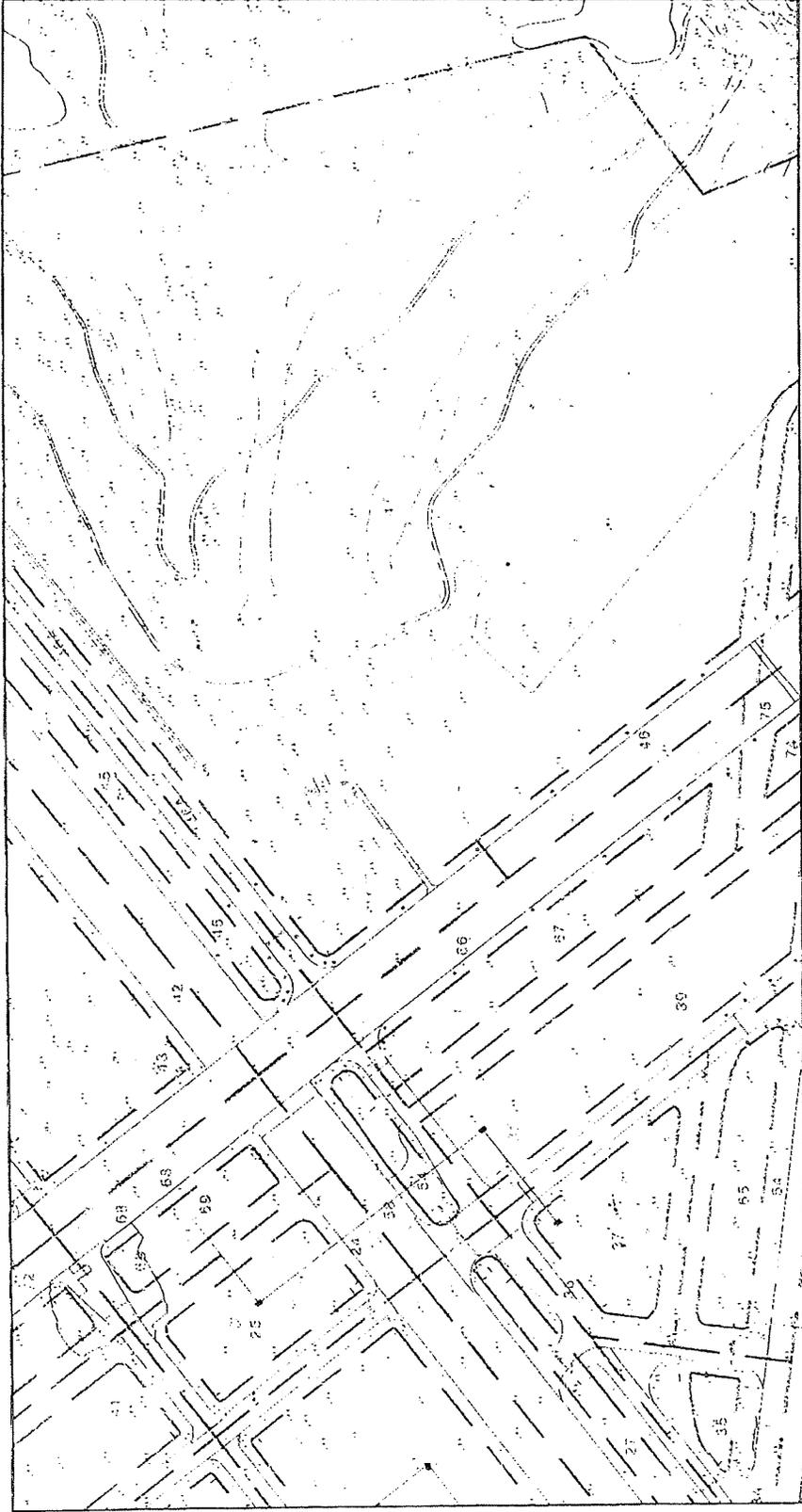
PROJECT NO: 12-001  
SHEET NO: 4 OF 4

Pompano Beach Air Park  
1001 Northeast 10th Street  
Pompano Beach, Florida 33060  
Phone: 954-786-4138



HANSON  
Professional Services Inc.  
1001 Northeast 10th Street  
Pompano Beach, Florida 33060  
Phone: 954-786-4138

DATE: 11/12/12  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: AS SHOWN



BASIN 64	BASIN 65	BASIN 66	BASIN 67	BASIN 68	BASIN 69	BASIN 70	BASIN 71	BASIN 72	BASIN 73	BASIN 74	BASIN 75
EXISTING SIZE AC: 0.34 FUTURE SIZE AC: 0.72 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: PAVED WATER MANAGEMENT FUTURE LAND USE: PAVED WATER MANAGEMENT MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 0.34 FUTURE SIZE AC: 0.72 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: PAVED WATER MANAGEMENT FUTURE LAND USE: PAVED WATER MANAGEMENT MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS	EXISTING SIZE AC: 1.39 FUTURE SIZE AC: 2.7 ALLOWABLE IMPERVIOUS AC (%): 15 EXISTING LAND USE: RUNWAY AND TAXIWAY FUTURE LAND USE: RUNWAY AND TAXIWAY MIN. FEE (NO. 0.88): PER AVIATION STANDARDS
<p><b>DESCRIPTION</b></p> <p>PROVIDE WATER MANAGEMENT AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN BASIN. MAX. AREA AT EL. 13.5 = 12,000 SF MAX. AREA AT EL. 13.3 = 12,000 SF MAX. AREA AT EL. 13.1 = 12,000 SF PROVIDE CONNECTION UNDER NEW TAXIWAY TO EXISTING DRAINAGE BASIN</p>											

**DESCRIPTION**

PROVIDE WATER MANAGEMENT AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN BASIN. MAX. AREA AT EL. 13.5 = 12,000 SF  
MAX. AREA AT EL. 13.3 = 12,000 SF  
MAX. AREA AT EL. 13.1 = 12,000 SF  
PROVIDE CONNECTION UNDER NEW TAXIWAY TO EXISTING DRAINAGE BASIN

**DESCRIPTION**

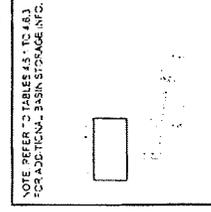
PROVIDE WATER MANAGEMENT AS INDICATED TO SUPPORT FUTURE DEVELOPMENT IN BASIN. MAX. AREA AT EL. 13.5 = 12,000 SF  
MAX. AREA AT EL. 13.3 = 12,000 SF  
MAX. AREA AT EL. 13.1 = 12,000 SF  
PROVIDE CONNECTION UNDER NEW TAXIWAY TO EXISTING DRAINAGE BASIN



GRAPHIC SCALE IN FEET  
0 60 120 240 300

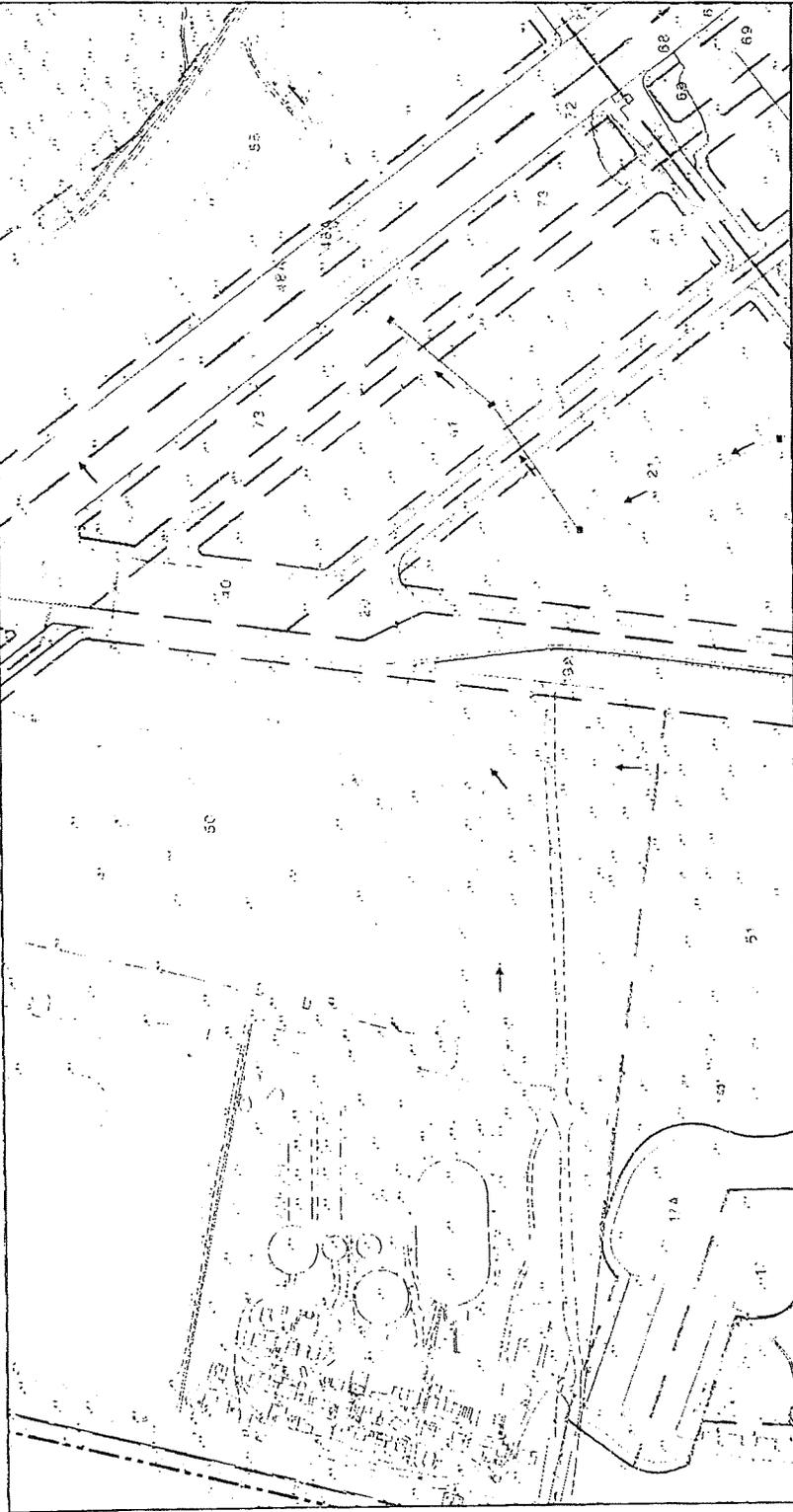
**LEGEND**

- PROPERTY LINE
- ZONE 1
- ZONE 2
- ZONE 3
- EXISTING
- UNDER CONSTRUCTION
- DEMOLISH
- BASINS
- BASIN NUMBER
- MASTER DRAINAGE PLAN LIMITS
- EXISTING FLOW
- FUTURE FLOW
- FUTURE PIPES AND STRUCTURES



NOTE REFER TO TABLES A3 - TO A6.3 FOR ADDITIONAL BASIN STORAGE INFO.

LOCATION NAME



BASIN 21	BASIN 51	BASIN 53	BASIN 55	BASIN 73	BASIN 75	BASIN 77	BASIN 79	BASIN 81	BASIN 83	BASIN 85	BASIN 87	BASIN 89	BASIN 91
EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS	EXISTING SIZE AC: 0.2 EXISTING IMPERVIOUS AC: 0.2 FUTURE SIZE AC: 0.2 ALLOWABLE IMPERVIOUS AC: 0.2 EXISTING LAND USE: OPEN SPACE FUTURE LAND USE: OPEN SPACE MIN. FE. NAV. 3:1 DRAINAGE CRITERIA: 5 YEARS

**POMPANO BEACH AIR PARK  
MASTER DRAINAGE PLAN**

VICINITY OF BLIMP PORT AND EQUESTRIAN FACILITY  
CONCEPTUAL FUTURE  
IMPROVEMENTS

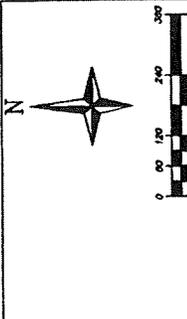
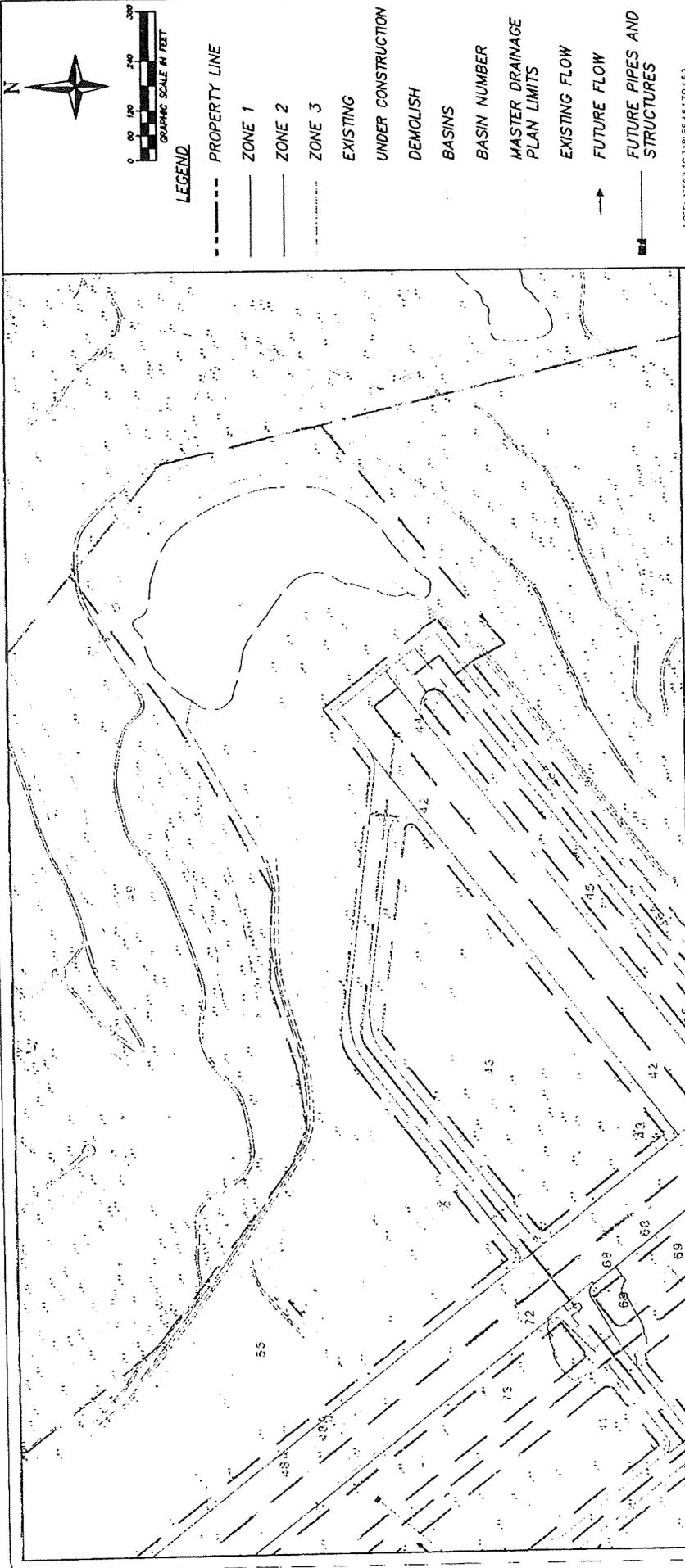
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REVISION: 1

**4.25**

12

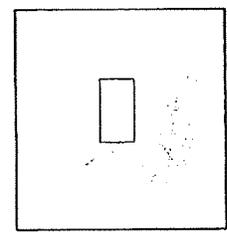
Hanson Professional Services Inc.  
5555 W. 15th Avenue, Suite 304  
Fort Lauderdale, Florida 33325  
Phone: 954-491-3322  
Fax: 954-491-3327  
www.hanson-c.com

Pompano Beach Air Park  
100' North-east 10th Street  
Pompano Beach, Florida 33060  
Phone: 954-756-4105



- LEGEND**
- PROPERTY LINE
  - ZONE 1
  - ZONE 2
  - ZONE 3
  - EXISTING
  - UNDER CONSTRUCTION
  - DEMOLISH
  - BASINS
  - BASIN NUMBER
  - MASTER DRAINAGE PLAN LIMITS
  - EXISTING FLOW
  - FUTURE FLOW
  - FUTURE PIPES AND STRUCTURES

NOTE: REFER TO TABLES 14.1 TO 14.63 FOR ADDITIONAL BASIN INFORMATION



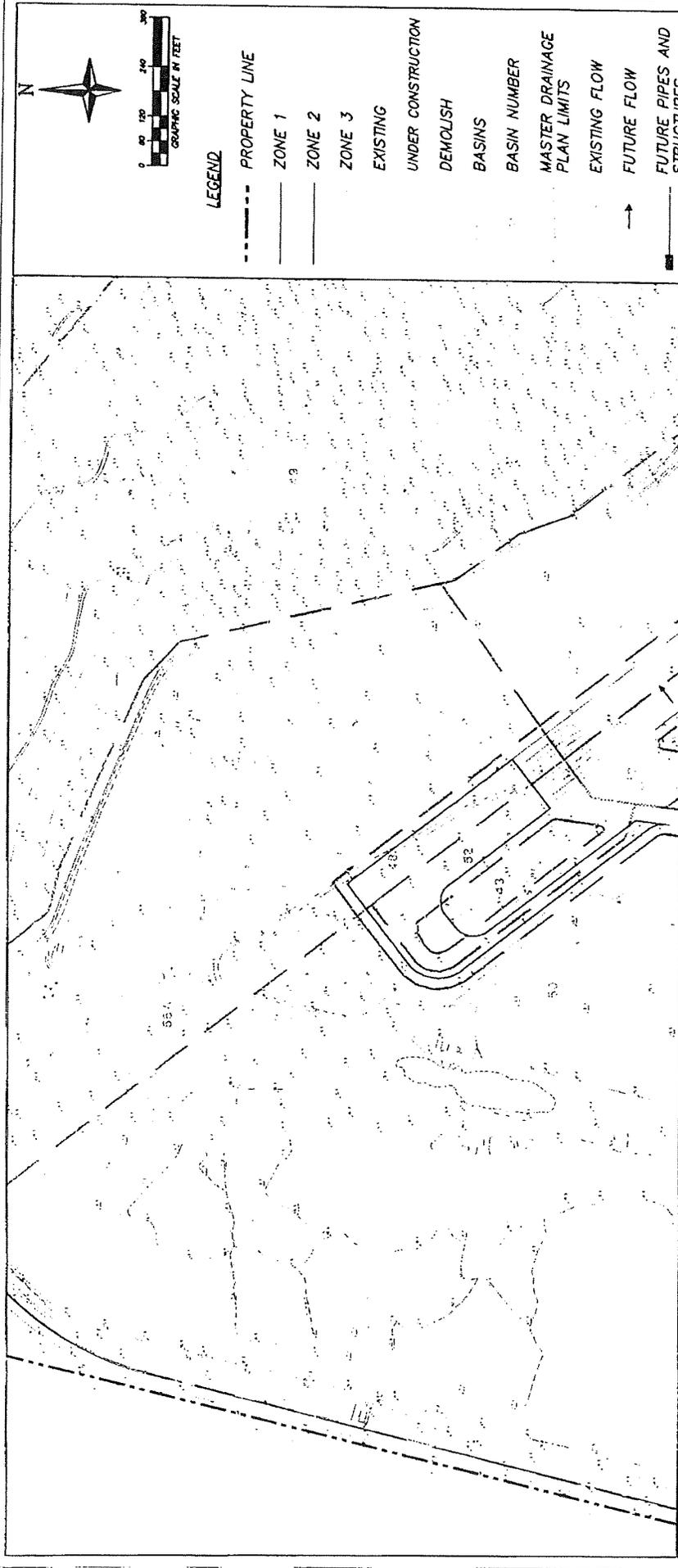
LOCATION MAP

BASIN 43	DESCRIPTION	BASIN 55	DESCRIPTION
EXISTING SIZE (AC): 0.3		EXISTING SIZE (AC): 11	
EXISTING IMPERVIOUS (AC FT): 0		EXISTING IMPERVIOUS (AC FT): 1,341,474	
FLUME SIZE (AC): 0.8		FLUME SIZE (AC): 10	
ALLOWABLE IMPERVIOUS (AC FT): 0		ALLOWABLE IMPERVIOUS (AC FT): 1,387,474	
EXISTING LAND USE: OPEN TURF AREA		EXISTING LAND USE: OPEN TURF FOREST	
FUTURE LAND USE: UNDEVELOPED		FUTURE LAND USE: OPEN TURF FOREST	
MIN. FFE (MGD/24H): N/A		MIN. FFE (MGD/24H): N/A	
DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT AS INDICATED TO SUPPORT FUTURE DEVELOPMENT. PROVIDE MINIMUM SURFACE ELEVATION OF 11.4 AT LOCATION A. CONSTRUCT NEW MSIF 42.8 AT LOCATION INDICATED IN PLAN EL4133.		DRAINAGE CRITERIA: PROVIDE WATER MANAGEMENT AS INDICATED AS NOTICED. PROVIDE MINIMUM SURFACE ELEVATION OF 11.4 AT LOCATION A. CONSTRUCT NEW MSIF 42.8 AT LOCATION INDICATED IN PLAN EL4133.	
AS OPTION DITCHES, AP MAY BE EXCAVATED AT ADDITIONAL 1' FOOT AT 0.5% SLOPE		LE30 WITH 1% TO 1% TO 1% SIDE SLOPES	

**HANSON**  
 Hanson Professional Services Inc.  
 5225 NW 15th Avenue, Suite 304  
 Fort Lauderdale, Florida 33309  
 Phone: 954-471-1332  
 Fax: 954-471-1330  
 Email: info@hansonps.com  
 CDP#04 98067008

**POMPANO BEACH AIR PARK  
 MASTER DRAINAGE PLAN**  
 VICINITY OF ROND AND END OF RUNWAY 24  
 CONCEPTUAL FUTURE  
 IMPROVEMENTS

**4.2.6**



DESCRIPTION	BASIN 50	DESCRIPTION
EXISTING SIZE AC:	73.4	EXISTING SIZE AC:
FUTURE SIZE AC:	2.13	FUTURE SIZE AC:
ALLOWABLE IMPERVIOUS AC:	73.4	ALLOWABLE IMPERVIOUS AC:
EXISTING LAND USE:	GREEN - FOREST	EXISTING LAND USE:
FUTURE LAND USE:	FOREST	FUTURE LAND USE:
MIN. FEET (AVOID)	15	MIN. FEET (AVOID):
CRANAGE CRITERIA:		CRANAGE CRITERIA:
PROVIDE DRY AND WATER MANAGEMENT AS INDICATED FOR PAVEMENT.		PROVIDE DRY AND WATER MANAGEMENT AS INDICATED FOR PAVEMENT.
MIN. ELEVATED AREA AT E. 10' x 10' x 20' SF		MIN. ELEVATED AREA AT E. 10' x 10' x 20' SF
MIN. ELEVATED AREA AT E. 14' x 14' x 20' SF		MIN. ELEVATED AREA AT E. 14' x 14' x 20' SF
MIN. ELEVATED AREA AT E. 14' x 14' x 20' SF		MIN. ELEVATED AREA AT E. 14' x 14' x 20' SF
AS SPECIAL CONC. SLAB MAY BE ELEVATED AN ADDITIONAL 1 FOOT AT 2% OF SURF.		AS SPECIAL CONC. SLAB MAY BE ELEVATED AN ADDITIONAL 1 FOOT AT 2% OF SURF.

**HAUSON**  
Hanson Professional Services Inc.  
855 NW 15th Avenue, Suite 104  
Fort Lauderdale, Florida 33305  
Phone: 954-431-3332  
Fax: 954-431-3337  
www.hanson-pro.com  
CFLS 1522-115

**POMPANO BEACH AIR PARK  
MASTER DRAINAGE PLAN**

EAD OF RUNWAY '5  
CONCEPTUAL FUTURE  
IMPROVEMENTS

**4.2.7**

14



**STAFF REPORT DISTRIBUTION LIST  
ADDRESSES**

**Owner:**

City of Pompano Beach - Office of City Engineer  
Attention: Alessandra Delfico, P.E.  
1201 NE 5th Ave  
Pompano Beach, FL 33060

**Applicant:**

City of Pompano Beach - Office of City Engineer  
Attention: Alessandra Delfico, P.E.  
1201 NE 5th Ave  
Pompano Beach, FL 33060

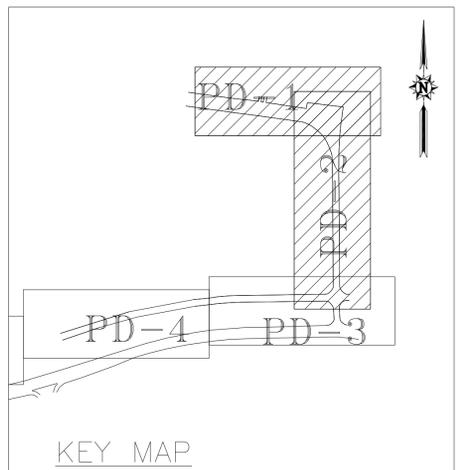
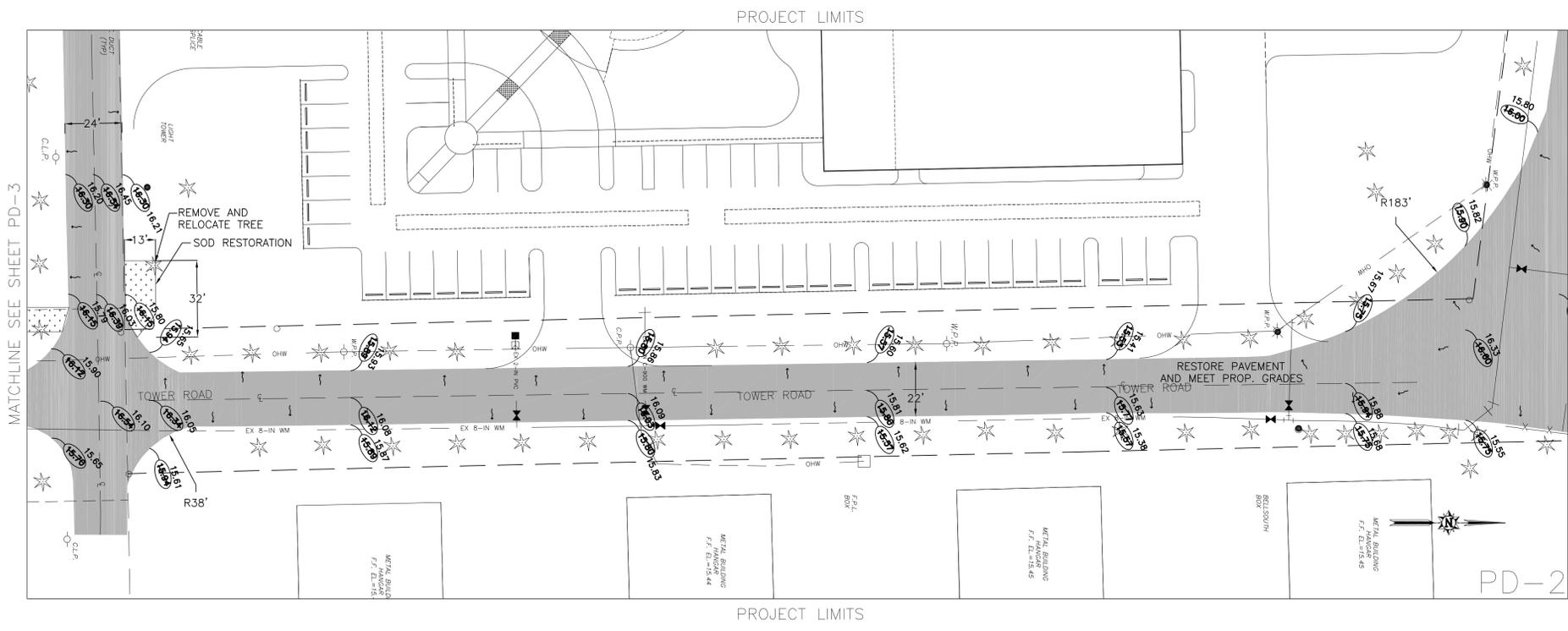
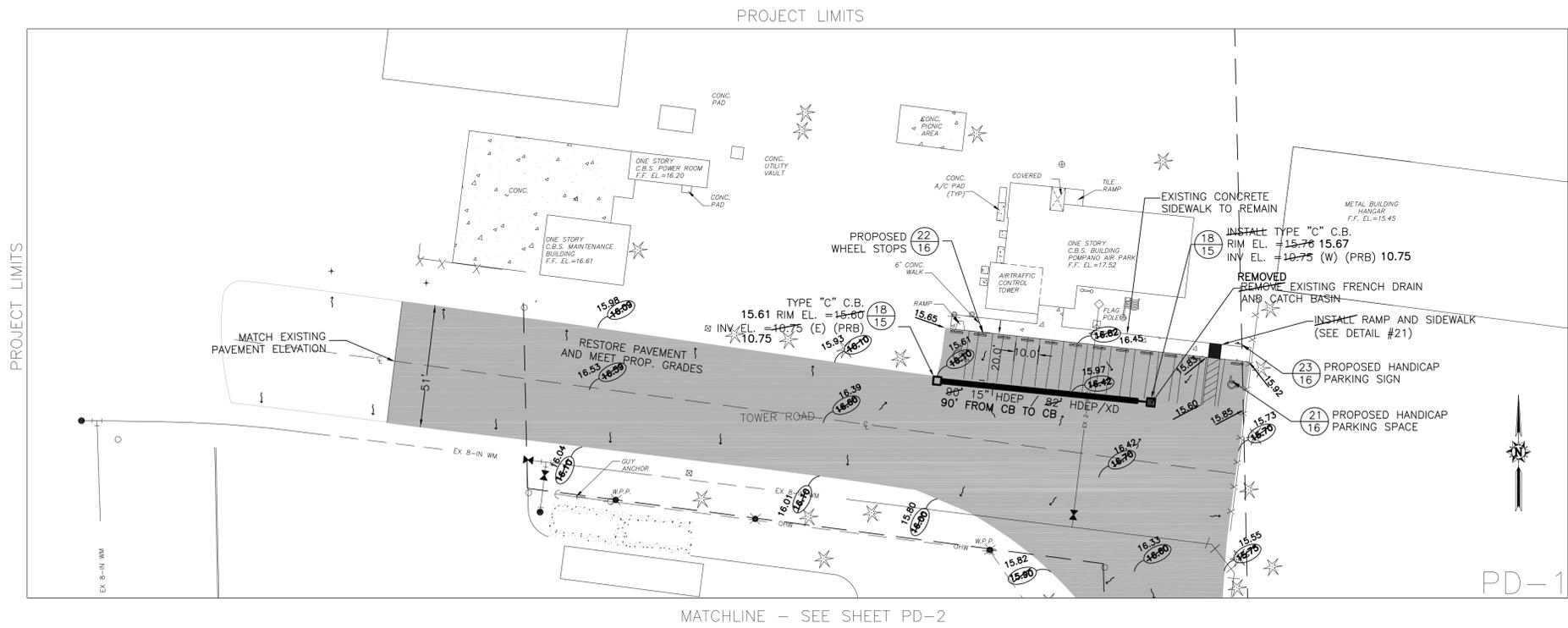
**Engineering  
Consultant:**

Hanson Professional Services, Inc.  
Attention: Timothy J. Parker  
5525 NW 15th Avenue, Suite 304  
Pompano Beach, FL 33309

**Other:**

City of Pompano Beach Building Official  
Army Corps of Engineers





- ROADWAY RESTORATION LIMITS
- EXISTING PAVEMENT TO REMAIN



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE. IF THIS BAR MEASURES 1/2" THEN THIS DRAWING IS AT HALF SIZE.



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S.  
REG. LAND SURVEYOR, #5005  
STATE OF FLORIDA, LB #3591

C&W #5726

CHEN AND ASSOCIATES  
CIVIL AND ENVIRONMENTAL ENGINEERS  
500 WEST CYPRESS CREEK ROAD - SUITE 410  
FORT LAUDERDALE, FLORIDA 33309  
PHONE: (954)730-0707 FAX: (954)730-2030  
STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DRAWING BY: JOEL BROWNSEY  
CHECKED BY: JASON MCCLAIR  
PRINT DATE: DECEMBER 2009

ENGINEER: JASON MCCLAIR, P.E.  
FLORIDA REGISTRATION: #56962  
DATE: 1



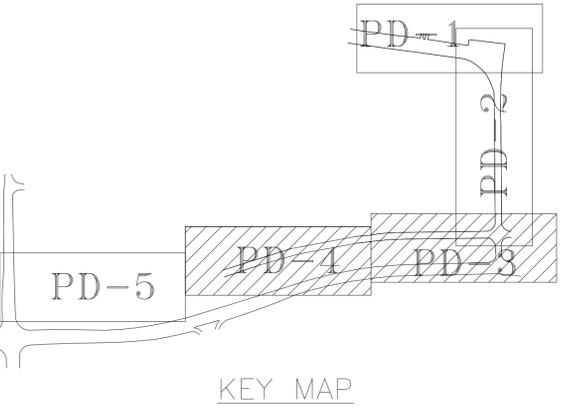
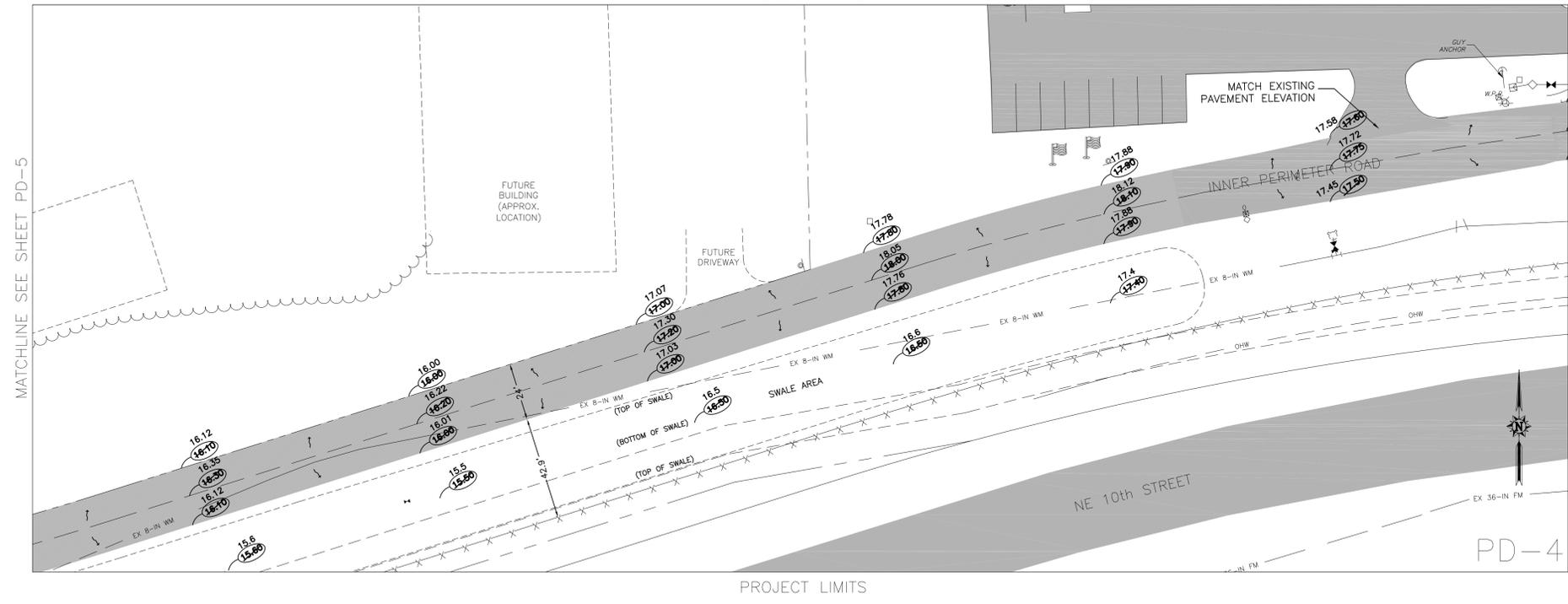
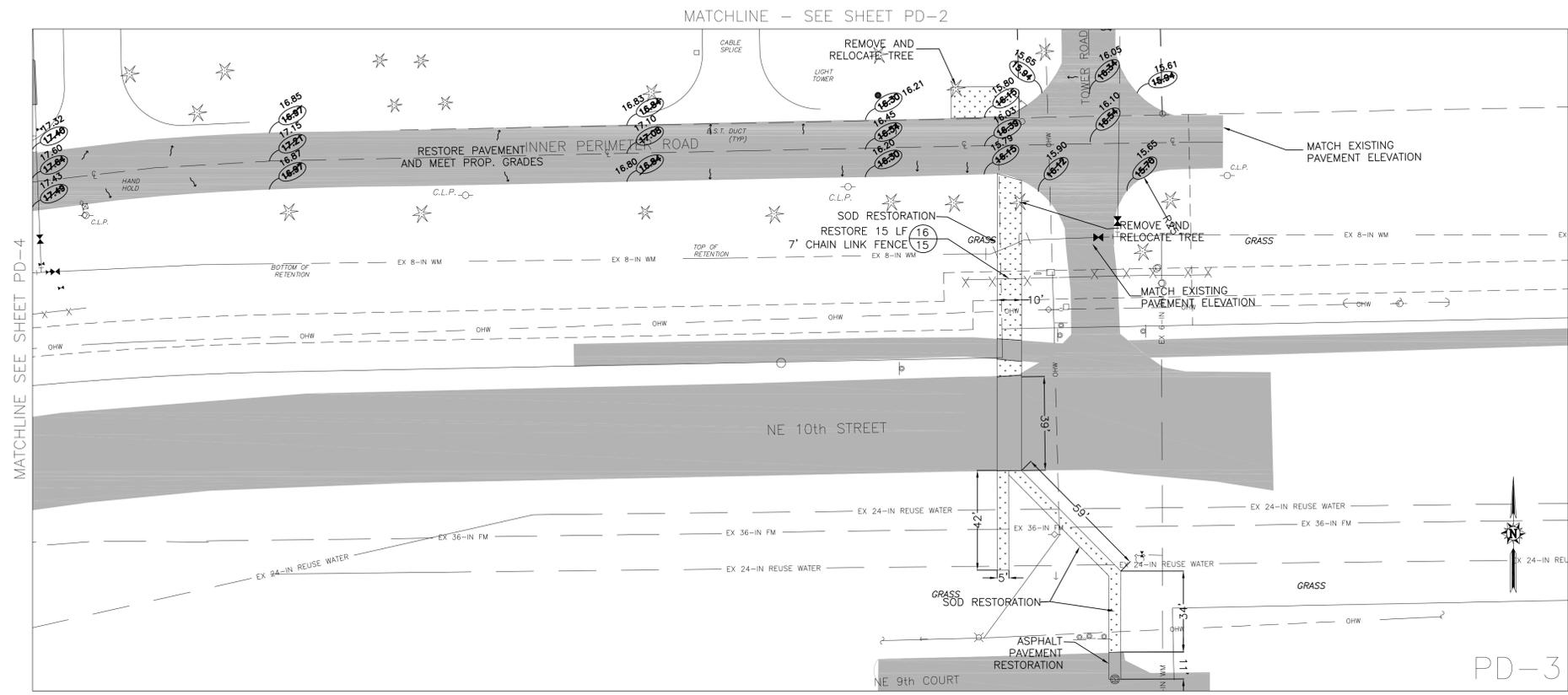
CITY OF POMPANO BEACH  
POMPANO AIRPARK UTILITY UPGRADES  
PAVING AND DRAINAGE  
SHEET PD-1 & PD-2

SHEET NO. 15

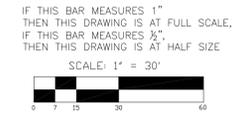
OF 19 SHEETS

POMPANO BEACH  
PROJECT # 07-940

RECORD ASBUILT DRAWING



ROADWAY RESTORATION LIMITS  
 EXISTING PAVEMENT TO REMAIN



CAULFIELD & WHEELER 2/11  
 DAVID P. LINDLEY, P.L.S.  
 REG. LAND SURVEYOR, #5005  
 STATE OF FLORIDA, LB #3591

**CHEN AND ASSOCIATES**  
 CIVIL AND ENVIRONMENTAL ENGINEERS  
 500 WEST CYPRESS CREEK ROAD - SUITE 410  
 FORT LAUDERDALE, FLORIDA 33309  
 PHONE: (954)730-0707 FAX: (954)730-2030  
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DRAWING BY: JOEL BROWNSEY  
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 PRINT DATE: DECEMBER 2009  
 ENGINEER: JASON MCCLAIR, P.E.  
 FLORIDA REGISTRATION: #56962  
 DATE:

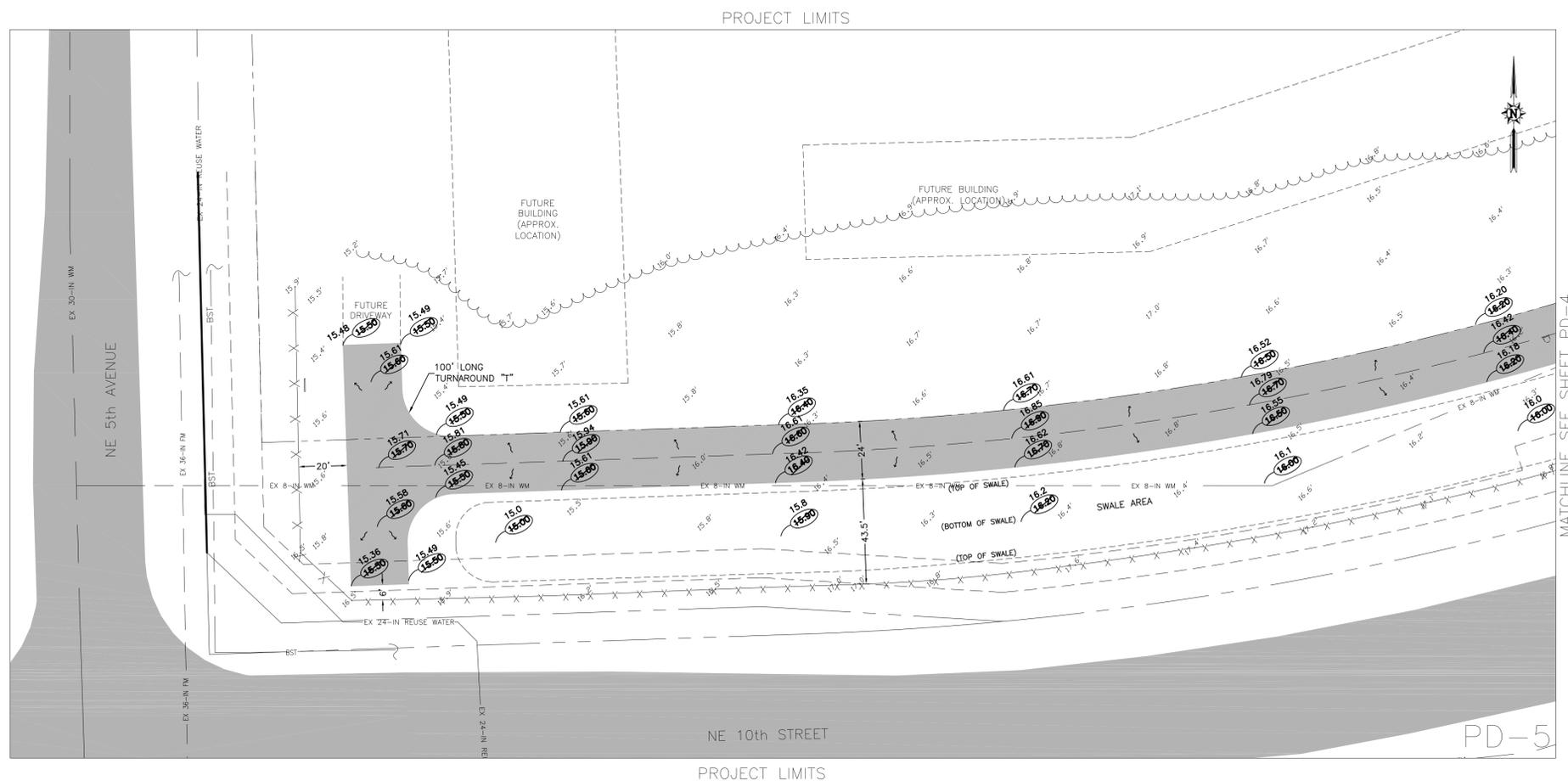


CITY OF POMPANO BEACH  
 POMPANO AIRPARK UTILITY UPGRADES  
 PAVING AND DRAINAGE  
 SHEET PD-3 & PD-4

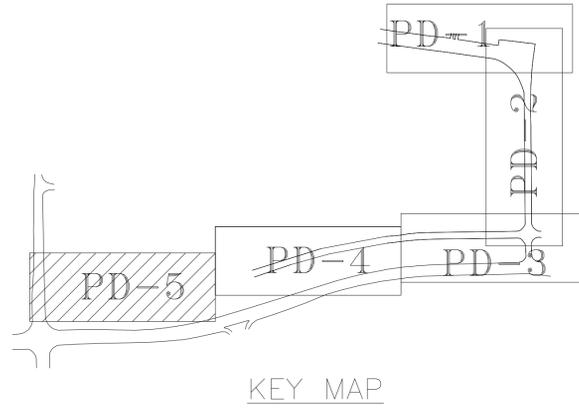
SHEET NO. 16  
 OF 19 SHEETS  
 POMPANO BEACH  
 PROJECT # 07-940

C&W #5726

RECORD ASBUILT DRAWING



 ROADWAY RESTORATION LIMITS  
 EXISTING PAVEMENT TO REMAIN



KEY MAP

DRAWING BY: JOEL BROWNSEY  
 CHECKED BY: JASON MCCLAIR  
 PRINT DATE: DECEMBER 2009

ENGINEER: JASON MCCLAIR, P.E.  
 FLORIDA REGISTRATION: #56962  
 DATE:



CITY OF POMPANO BEACH  
 POMPANO AIRPARK UTILITY UPGRADES

PAVING AND DRAINAGE  
 SHEET PD-5



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE.  
 IF THIS BAR MEASURES 1/2" THEN THIS DRAWING IS AT HALF SIZE.



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S.  
 REG. LAND SURVEYOR, #5005  
 STATE OF FLORIDA, LB #3591

C&W #5726

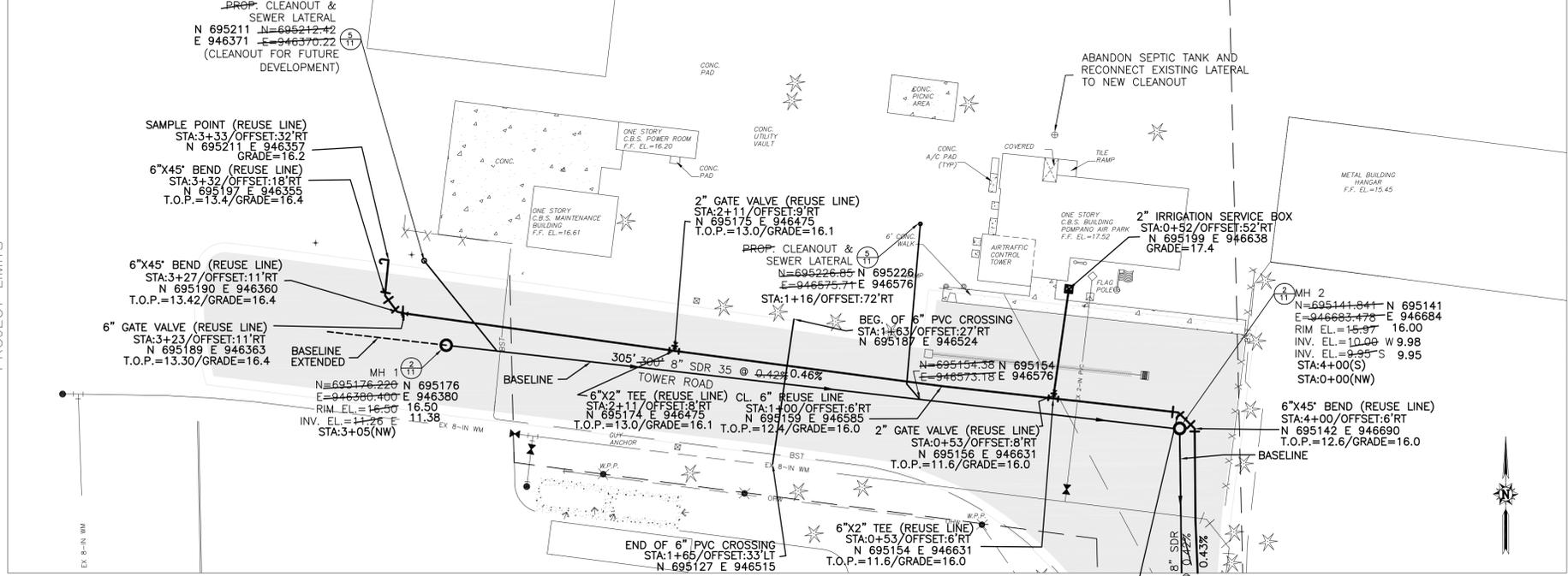
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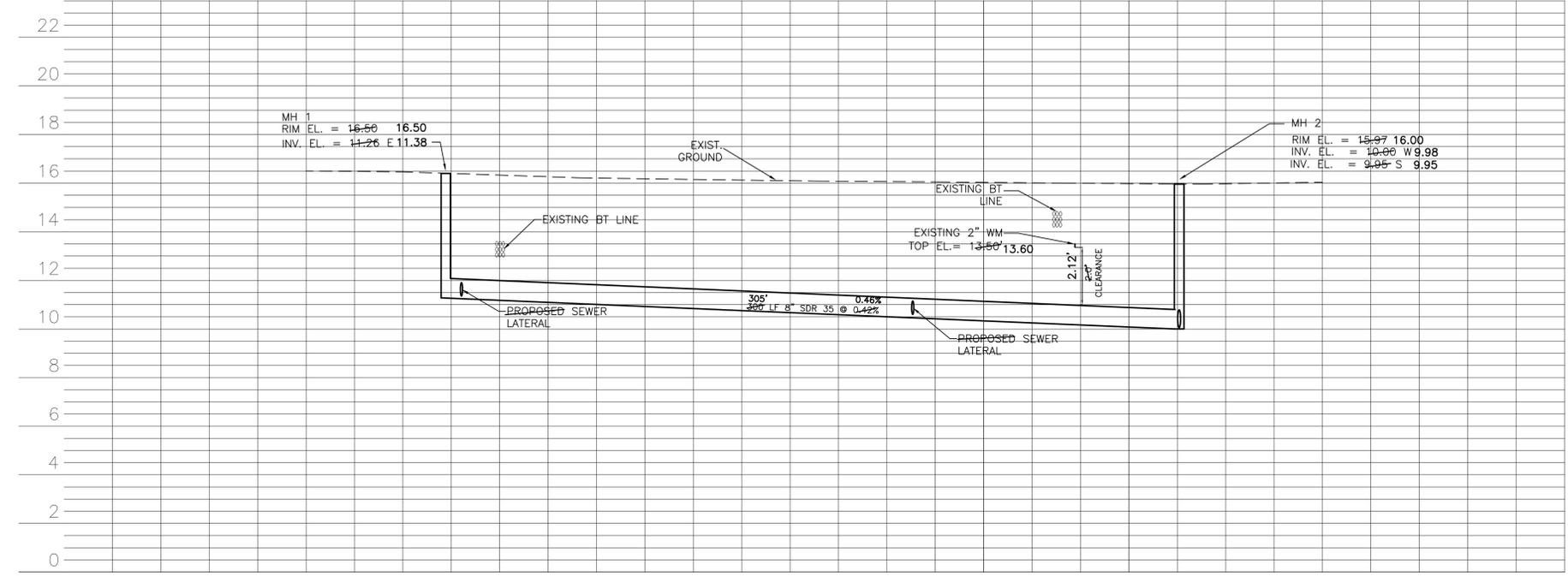
OF 19 SHEETS

POMPANO BEACH  
 PROJECT # 07-940

\*SEWPER COAT ALL MANHOLES (SEE DETAIL)



MATCHLINE - SEE SHEET SR-2



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S.  
REG. LAND SURVEYOR, #5005  
STATE OF FLORIDA, LB #3591

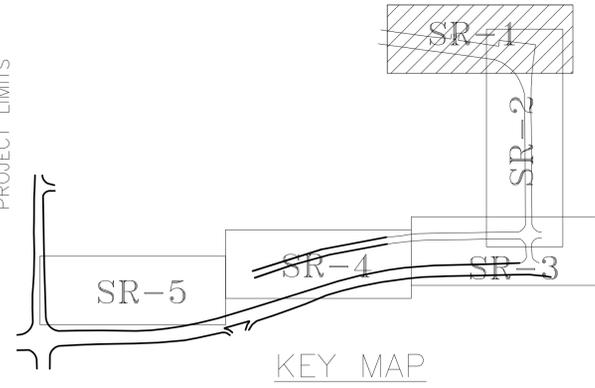
RECORD ASBUILT DRAWING

PROJECT LIMITS

PROJECT LIMITS



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE.  
IF THIS BAR MEASURES 1/2", THEN THIS DRAWING IS AT HALF SIZE.



CHEN AND ASSOCIATES  
CIVIL AND ENVIRONMENTAL ENGINEERS  
500 WEST CYPRESS CREEK ROAD - SUITE 410  
FORT LAUDERDALE, FLORIDA 33309  
PHONE: (954)730-0707 FAX: (954)730-2030  
STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

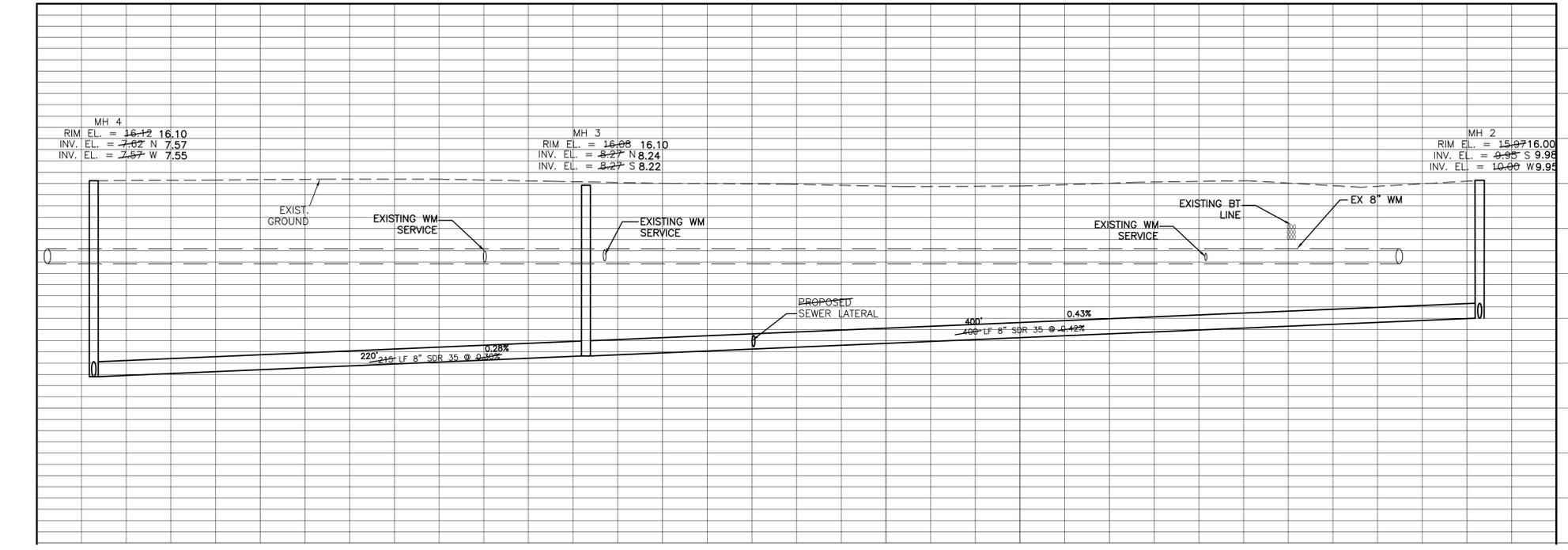
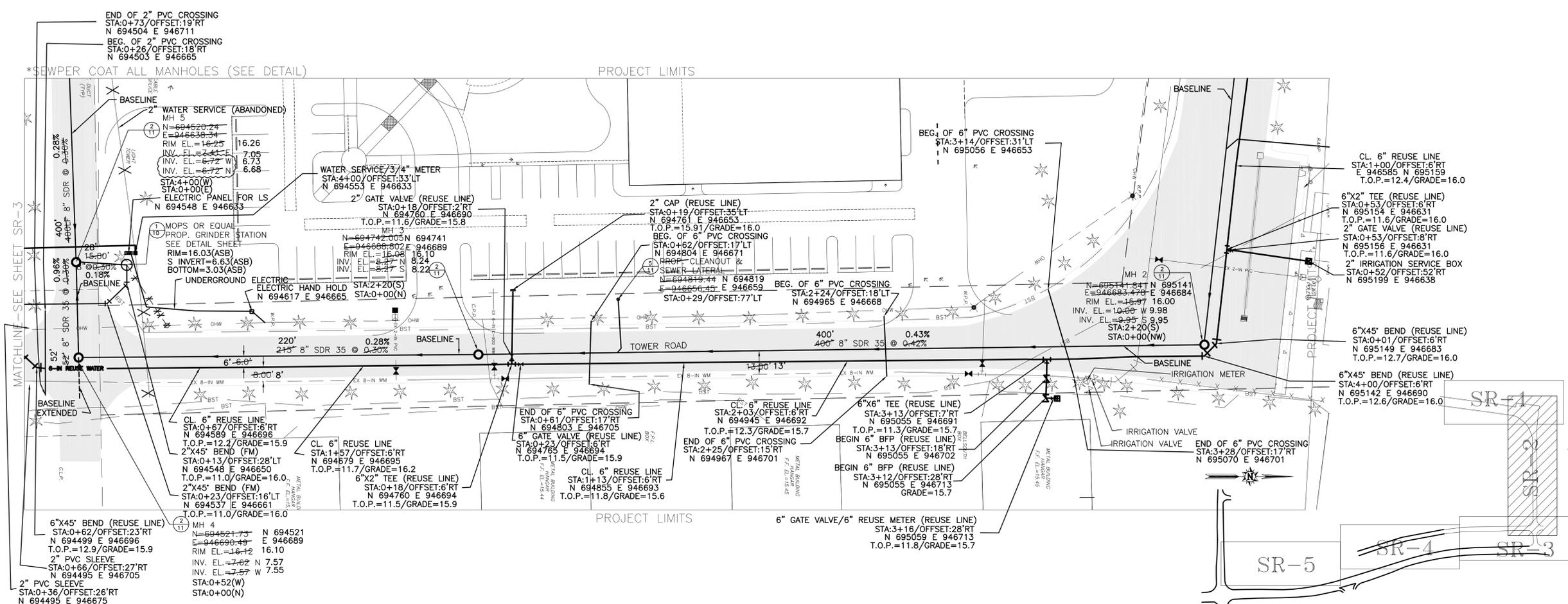
DRAWING BY: JOEL BROWNEY  
CHECKED BY: JASON MCCLAIR  
PRINT DATE: DECEMBER 2009  
ENGINEER: JASON MCCLAIR, P.E.  
FLORIDA REGISTRATION: #56962  
DATE: \_\_\_\_\_



CITY OF POMPANO BEACH  
POMPANO AIRPARK UTILITY UPGRADES  
PROPOSED SANITARY SEWER & REUSE WATER MAIN  
SHEET SR-1

SHEET NO. 7  
OF 19 SHEETS  
POMPANO BEACH  
PROJECT # 07-940

C&W #5726



22  
20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0

KEY MAP



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE, IF THIS BAR MEASURES 1/2", THEN THIS DRAWING IS AT HALF SIZE



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S.  
REG. LAND SURVEYOR, #5005  
STATE OF FLORIDA, LB #3591

C&W #5726

**CHEN AND ASSOCIATES**  
CIVIL AND ENVIRONMENTAL ENGINEERS  
500 WEST CYPRESS CREEK ROAD - SUITE 410  
FORT LAUDERDALE, FLORIDA 33309  
PHONE: (954)730-0700 FAX: (954)730-2030  
STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DRAWING BY: JOEL BROWNSEY  
CHECKED BY: JASON MCCLAIR  
PRINT DATE: DECEMBER 2009  
ENGINEER: JASON MCCLAIR, P.E.  
FLORIDA REGISTRATION: #56962  
DATE: 1

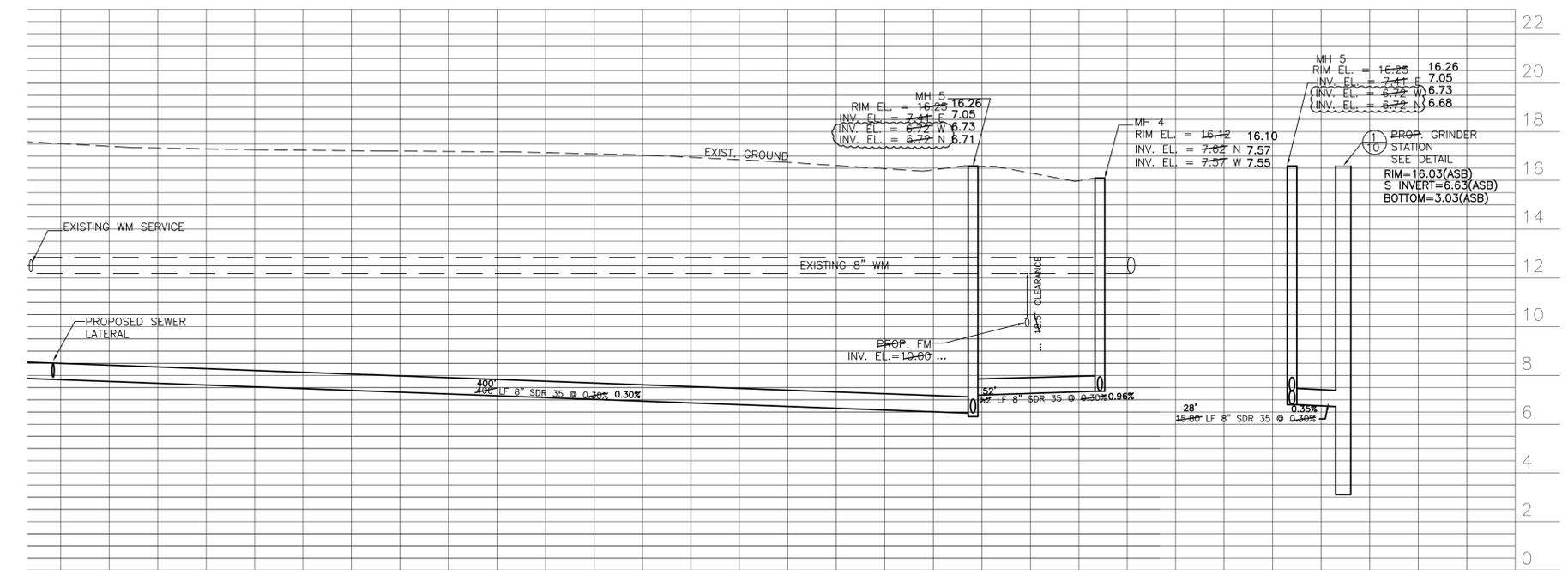
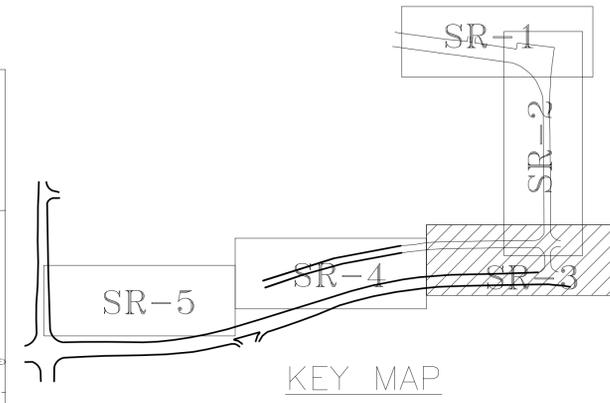
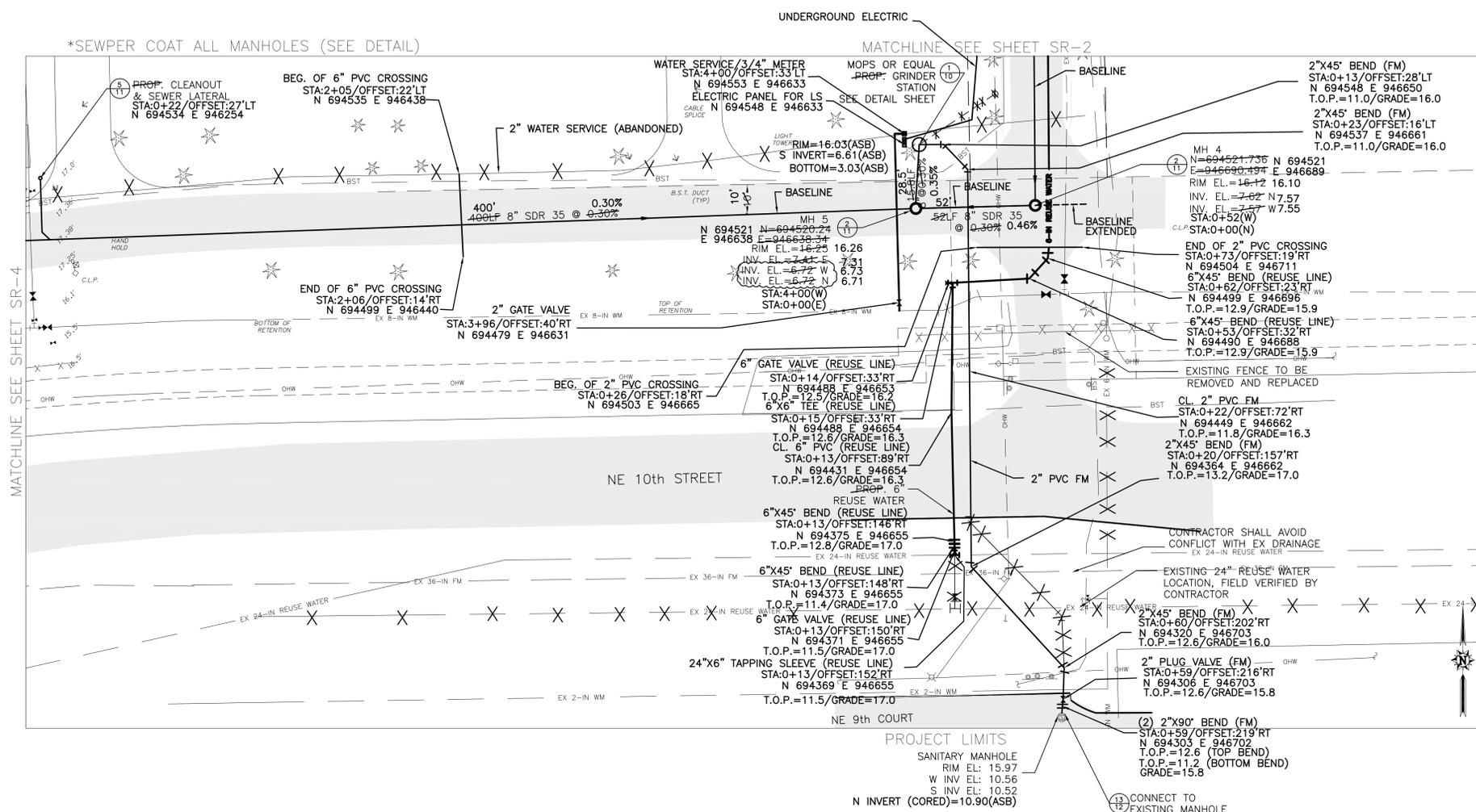


CITY OF POMPANO BEACH  
POMPANO AIRPARK UTILITY UPGRADES  
PROPOSED SANITARY SEWER & REUSE WATER MAIN  
SHEET SR-2

SHEET NO. 8  
OF 19 SHEETS

POMPANO BEACH  
PROJECT # 07-940

RECORD ASBUILT DRAWING



RECORD ASBUILT DRAWING



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE. IF THIS BAR MEASURES 1/2", THEN THIS DRAWING IS AT HALF SIZE



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S., REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

C&W #5726

CHEN AND ASSOCIATES  
 CIVIL AND ENVIRONMENTAL ENGINEERS  
 500 WEST CYPRESS CREEK ROAD - SUITE 410  
 FORT LAUDERDALE, FLORIDA 33309  
 PHONE: (954)730-0707 FAX: (954)730-2030  
 STATE OF FLORIDA ENGINEERING BUSINESS LICENSE NO. 4593

DRAWING BY: JOEL BROWNSEY  
 CHECKED BY: JASON MCCLAIR  
 PRINT DATE: DECEMBER, 2009

ENGINEER: JASON MCCLAIR, P.E.  
 FLORIDA REGISTRATION: #56962  
 DATE: .

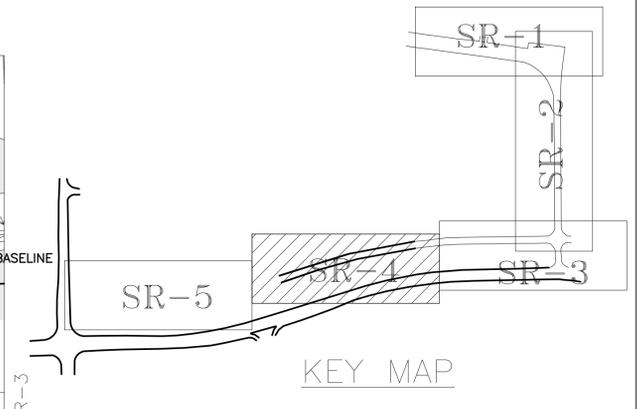
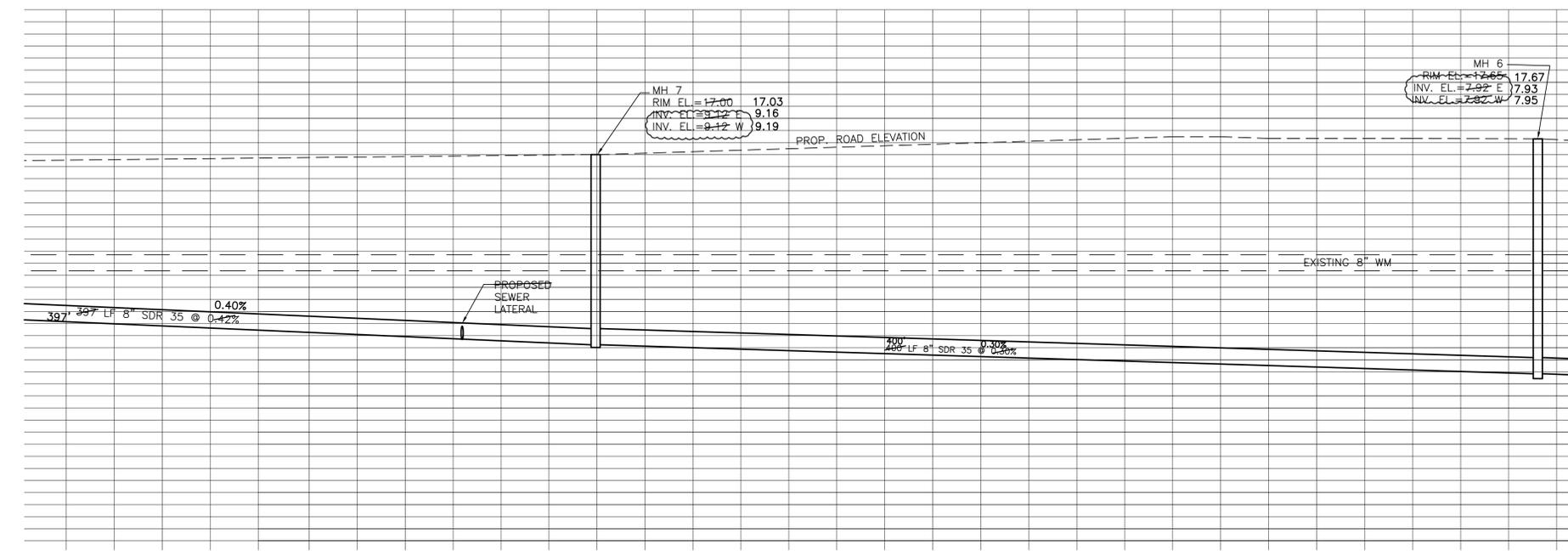
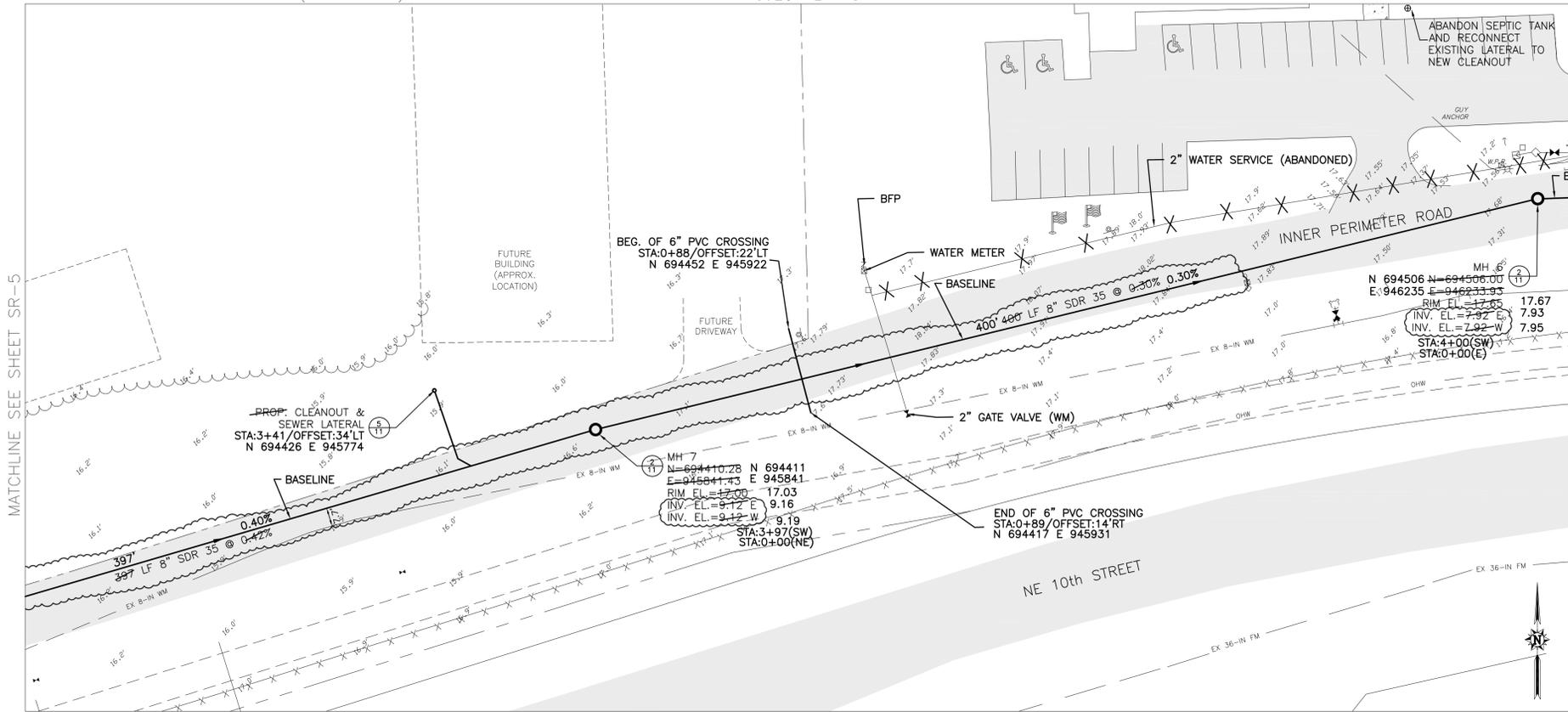


CITY OF POMPANO BEACH  
 POMPANO AIRPARK UTILITY UPGRADES  
 PROPOSED SANITARY SEWER & REUSE WATER MAIN  
 SHEET SR-3

SHEET NO. 9  
 OF 19 SHEETS  
 POMPANO BEACH  
 PROJECT # 07-940

\*SEWPER COAT ALL MANHOLES (SEE DETAIL)

PROJECT LIMITS



MATCHLINE SEE SHEET SR-5

MATCHLINE SEE SHEET SR-3

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 ENGINEER: JASON MCCLAIR, P.E.  
 FLORIDA REGISTRATION: #56962  
 DATE: \_\_\_\_\_



CITY OF POMPANO BEACH  
 POMPANO AIRPARK UTILITY UPGRADES  
 PROPOSED SANITARY SEWER & REUSE WATER MAIN  
 SHEET SR-4



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE.  
 IF THIS BAR MEASURES 1/2" THEN THIS DRAWING IS AT HALF SIZE.



CAULFIELD & WHEELER 2/11

DAVID P. LINDLEY, P.L.S.  
 REG. LAND SURVEYOR, #5005  
 STATE OF FLORIDA, LB #3591

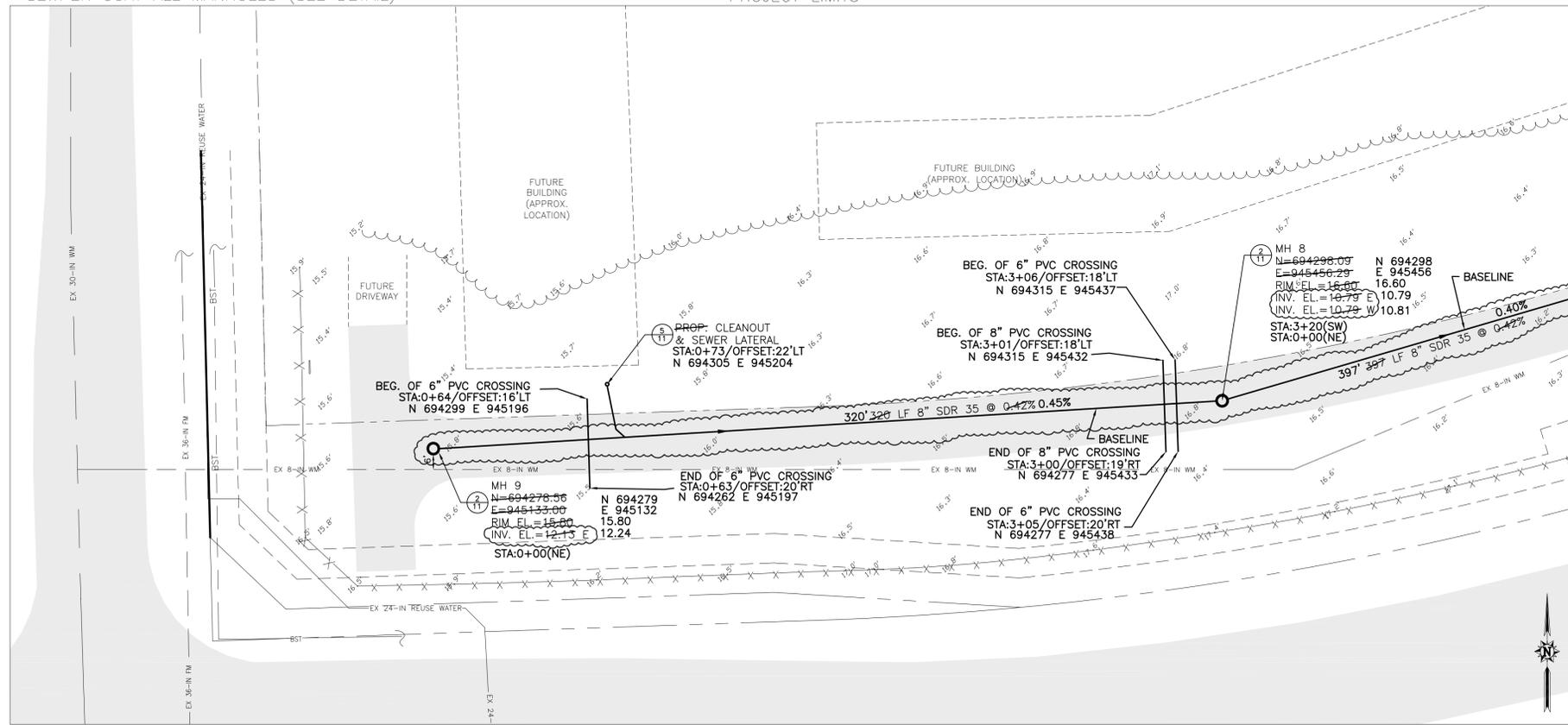
C&W #5726

**RECORD ASBUILT DRAWING**

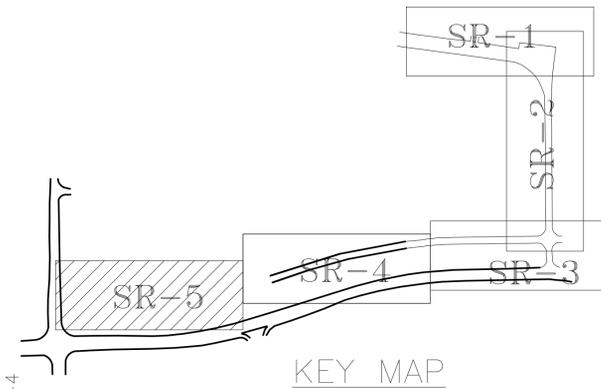
SHEET NO. 10  
 OF 19 SHEETS  
 POMPANO BEACH  
 PROJECT # 07-940

\*SEWER COAT ALL MANHOLES (SEE DETAIL)

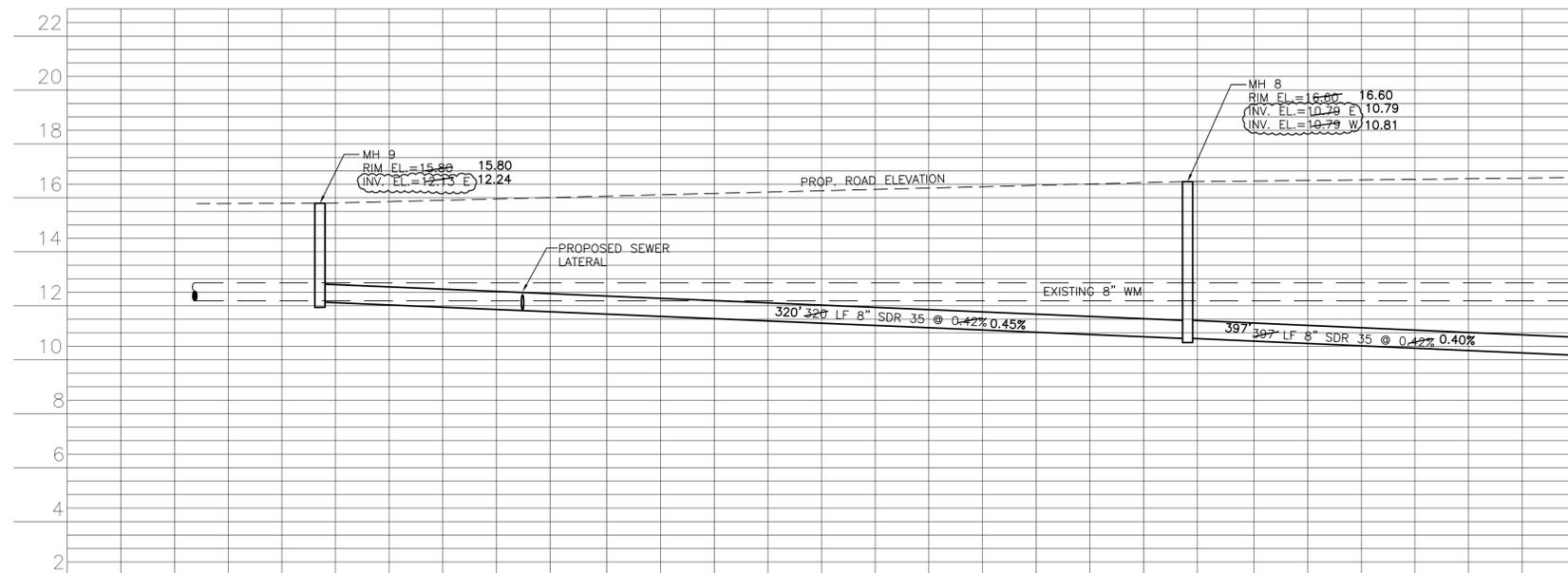
PROJECT LIMITS



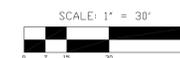
MATCHLINE SEE SHEET SR-4



PROJECT LIMITS



IF THIS BAR MEASURES 1" THEN THIS DRAWING IS AT FULL SCALE.  
IF THIS BAR MEASURES 1/2" THEN THIS DRAWING IS AT HALF SIZE.



CAULFIELD & WHEELER 2/11

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REG. LAND SURVEYOR, #5005  
STATE OF FLORIDA, LB #3591

C&W #5726

RECORD ASBUILT DRAWING

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CITY OF POMPANO BEACH  
POMPANO AIRPARK UTILITY UPGRADES

PROPOSED SANITARY SEWER & REUSE WATER MAIN  
SHEET SR-5

SHEET NO. 11  
OF 19 SHEETS  
POMPANO BEACH  
PROJECT # 07-940

