SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE PERMIT NO. 36-05075-P
DATE ISSUED:August 31, 2018

PERMITTEE: S D W B L L C
SD WILDBLUE L L C
PULTE HOME COMPANY L L C
ALICO EAST FUND L L C
LENNAR HOMES L L C

(See attached for Permittee addresses)

PROJECT DESCRIPTION: This Environmental Resource Permit Modification authorizes Construction and Operation of a stormwater management (SWM) system serving 693.95 acres of residential and commercial development for a project known as WildBlue. This modification also authorizes conceptual approval of 25.26 acres of residential and commercial development.

PROJECT LOCATION: LEE COUNTY, SEC 17,19 TWP 46S RGE 26E

PERMIT DURATION: See Special Condition No:1.

This is to notify you of the District's agency action for Permit Application No. 180713-10, dated July 13, 2018. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statues (F.S).

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

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 18 General Conditions (See Pages : 2 - 4 of 7),
3. the attached 22 Special Conditions (See Pages : 5 - 7 of 7) and
4. the attached 4 Exhibit(s)

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

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the attached distribution list) this 31st day of August, 2018, in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (my.sfwmd.gov/ePermitting).

BY:_____
Melissa M. Roberts, P.E.
Regulatory Administrator
Fort Myers Service Center

PERMITTEE ADDRESSES :

Lennar Homes L L C
10481 Six Mile Cypress
Fort Myers FL 33966

Alico East Fund L L C
12800 University Drive Suite 275
Fort Myers FL 33907

Pulte Home Company L L C
24311 Walden Center Drive Suite 300
Bonita Springs FL 34134

Sd Wildblue L L C
2639 Professional Circle Suite 101
Naples FL 34119

S D W B L L C
2639 Professional Circle Suite 101
Naples FL 34119

NOTICE OF RIGHTS

As required by Sections 120.569 and 120.60(3), Fla. Stat., the 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 of the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

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

If the District takes final agency action which materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional Rule 28-106.111, Fla. Admin. Code, point of entry.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Fla. Stat., shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

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

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk of the SFWMD. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at SFWMD headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the SFWMD's security desk does not constitute filing. It will be necessary to request that the SFWMD's security officer contact the Office of the District Clerk. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document. A party who files a document by e-mail shall (1) represent that the original physically signed document will be retained by that party for the duration of the proceeding and of any subsequent appeal or subsequent proceeding in that cause and that the party shall produce it upon the request of other parties; and (2) 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.

INITIATION OF AN ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Fla. Stat., and Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

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

MEDIATION

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

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Fla. Stat., and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal with the Office of the District Clerk of the SFWMD in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the clerk of the appropriate district court of appeal.

GENERAL CONDITIONS

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (November 16, 2016), (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
2. For all other activities - "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].
3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:
1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which

GENERAL CONDITIONS

the activity is located.
2. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in chapter 62-330, F.A.C.;
2. Convey to the permittee or create in the permittee any interest in real property;
3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:
1. Immediately if any previously submitted information is discovered to be inaccurate; and
2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S. For project

GENERAL CONDITIONS

activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

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 rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

SPECIAL CONDITIONS

1. The conceptual phase of this permit shall expire on August 31, 2038.
The construction phase of this permit shall expire on August 31, 2023.

2. Operation and maintenance of the stormwater management system shall be the responsibility of WILDBLUE MASTER PROPERTY OWNERS ASSOCIATION, INC. Within one year of permit issuance or concurrent with the engineering certification of construction completion, whichever comes first, the permittee shall submit a copy of the recorded deed restrictions (or declaration of condominium, if applicable), a copy of the filed articles of incorporation, and a copy of the certificate of incorporation for the association.

   Operation and maintenance of the on-site preserve/mitigation areas A - H shall be the responsibility of Lennar Homes, LLC. Agreements between the permittees outlines that Lennar Homes, LLC will conduct the mitigation activities prior to, or concurrent with, any construction activities in the associated development basins. These agreements can be found in the ePermitting file. Please note that Stock Development (a.k.a. SD Wildblue, LLC and SDWB, LLC) owns a portion of mitigation area E, but Lennar Homes, LLC has agreed to conduct the operation and maintenance of this area as well.

3. Discharge Facilities: refer to pages 35 and 36 of 39 of Exhibit 2.0.

4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.

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

6. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Compliance (ERC) staff, and any other local government entities as necessary.

   The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties.

   To schedule a pre-construction meeting, please contact ERC staff from the Fort Myers Service Center at (239) 338-2929 or via e-mail at: pre-con@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

7. Minimum building floor elevation: refer to page 8 of 39 of Exhibit 2.0.

8. Minimum road crown elevation: refer to page 8 of 39 of Exhibit 2.0.

9. Minimum parking lot elevation: refer to page 8 of 39 of Exhibit 2.0.

10. A modification to Water Use Permit No. 36-05078-W must be submitted to reflect the irrgated acreages within each owner's project area prior to any irrigation withdrawals, unless the work is exempt pursuant to Chapter 40E-2.051 F.A.C.

11. A modification to Water Use Permit No. 36-08429-W must be submitted to reflect the dewatering plan for each owner's project area prior to any dewatering activities.

SPECIAL CONDITIONS

12. Prior to the commencement of construction of each development phase, and in conformance with the work schedule in Exhibit 3.0, whichever occurs first, the permittee shall provide an original bond for each of the seven mitigation phases in the following amounts (each financial assurance mechanism is for 110% of the estimated cost within each phase) to ensure the permittee's financial ability and commitment to complete the proposed mitigation, monitoring and maintenance plan as shown on Exhibit Nos. 3.2 and 3.3 of Application No. 140516-10.

    Phase AB: $331,629.10
    Phase CD: $619,821.40
    Phase E: $1,345,328.60
    Phase F: $2,112,162.25

    The financial assurance shall be in effect for the entire period of the mitigation and monitoring program. Notification to the District by the financial institution or surety that the financial assurance will not be renewed or is no longer in effect shall constitute non-compliance with the permit.

13. Any docking facility proposed in the future shall require approval by the District through a modification to the existing Environmental Resource Permit. The permittee is also advised to notify potential unit owners that purchase of a unit does not imply that any on-site docking facilities will be available in the future.

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

15. Prior to the commencement of construction, the perimeter of protected on-site wetland preservation areas shall be staked/roped/fenced to prevent encroachment into the protected areas. Using Global Positioning System (GPS) technology, the perimeter of the preserve area(s) shall be identified for future reference. The data shall be differentially corrected and accurate to less than a meter (+/- one meter or better). Electronic copies of the GPS data shall be provided to the District's Environmental Resource Compliance staff. The permittee shall notify the District's Environmental Resource Compliance staff in writing upon completion of staking/roping/fencing and schedule an inspection of this work. The staking/roping/fencing shall be subject to District staff approval. The permittee shall modify the staking/roping/fencing if District staff determines that it is insufficient or is not in conformance with the intent of this permit. The staking/roping/fencing shall remain in place until all adjacent construction activities are complete.

16. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species. The proposed wildlife crossings and wildlife fencing shall be constructed as outlined in Exhibit 2.0.

17. The exhibits and special conditions in this permit apply only to this application. They do not supersede or delete any requirements for other applications covered in Permit No. 36-05075-P unless otherwise specified herein.

18. The permittee shall utilize the criteria contained in the Construction Stormwater Pollution Prevention Plan (Exhibit No. 2.1) and on the applicable approved construction drawings for the duration of the project's construction activities.

19. The Urban Stormwater Management Plan shall be implemented in accordance with Exhibit No. 2.2.

SPECIAL CONDITIONS

20. The following are exhibits to this permit. Exhibits noted as incorporated by reference are available on the District's ePermitting website (http://my.sfwmd.gov/ePermitting) under this application number.

Exhibit No. 1.0 Location Map
Exhibit No. 2.0 Plans
Exhibit No. 2.1 Construction Stormwater Pollution Prevention Plan
Exhibit No. 2.2 Urban Stormwater Management Program
Exhibit No. 3.0 Work Schedule
Exhibit No. 4.0 Ownership Maps

21. Activities associated with the implementation of the mitigation, monitoring and maintenance plan(s) shall be completed in accordance with the work schedule attached as Exhibit No. 3.0. Any deviation from these time frames must be coordinated with the District's Environmental Resource Compliance staff, and may require a minor modification to this permit. Such requests must be made in writing and shall include (1) reason for the change, (2) proposed start/finish and/or completion dates; and (3) progress report on the status of the project development or mitigation effort.

22. A mitigation, monitoring, and maintenance program shall be implemented in accordance with Exhibit Nos. 3.2 and 3.3 of Application No. 140516-10. The monitoring program shall extend for a period of 5 years with annual reports submitted to District staff. At the end of the first monitoring period the mitigation area shall contain an 80% survival of planted vegetation. The 80% survival rate shall be maintained throughout the remainder of the monitoring program, with replanting as necessary. If native wetland, transitional, and upland species do not achieve an 80% coverage within the initial two years of the monitoring program, native species shall be planted in accordance with the maintenance program. At the end of the 5 year monitoring program the entire mitigation area shall contain an 80% survival of planted vegetation and an 80% coverage of desirable obligate and facultative wetland species.

Last Date For Agency Action: October 20, 2018

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Wildblue

Permit No.: 36-05075-P

Application No.: 180713-10

Application Type: Environmental Resource (Construction/Operation Modification)

Location: Lee County, S17,19/T46S/R26E

Permittee : Lennar Homes L L C
Alico East Fund L L C
Pulte Home Company L L C
Sd Wildblue L L C
S D W B L L C

Operating Entity : Wildblue Master Property Owners Association, Inc.

Project Area: 719.21 acres

Permit Area: 2,960.41 acres

Project Land Use: Residential

Drainage Basin: ESTERO BAY **Sub Basin:** ESTERO RIVER

Receiving Body: ONSITE WETLANDS **Class:** CLASS III

Special Drainage District: NA

Mitigation Previously Permitted: Yes

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT SUMMARY:

This Environmental Resource Permit Modification authorizes Construction and Operation of a stormwater management (SWM) system serving 693.95 acres of residential and commercial development for a project known as WildBlue. This modification also authorizes conceptual approval of 25.26 acres of residential and commercial development.

The proposed development consists of single-family residential lots, amenity tracts, a small commercial outparcel, and associated supporting infrastructure. This authorization modifies the site layout of the previously approved residential tracts, including road and building pad locations and stormwater management lakes under Permit No. 36-05075-P / Application No. 180116-19. The most significant modification is the re-inclusion of outfalls from Basins B, D, E and F to WildBlue Lake North. In addition, the commercial outparcel with Basin H, which was previously permitted for conceptual approval, is now being requested for construction approval. No changes to Basins C, I or J are proposed as part of this application. Site development plans are attached as Exhibit No. 2.0.

The applicant also seeks the conceptual approval of docking facilities with a maximum of 150 slips. The docking facility/amenity center area will also contain a fuel storage and pump facility. Prior to construction of any future docking facilities or boat ramps, a permit modification will be required to show construction level detail of the facilties and the proposed Best Management Practices (BMPs) to be implemented as a part of the construction.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The site is located approximately two miles east of Interstate 75, between Corkscrew Road and Alico Road, in Lee County. A location map is attached as Exhibit 1.0.

Agricultural production on the site began in the 1950's and continued into 2013. Aggregate mining operations began in the 1980's and continued until the late 2000's. There are permitted water management facilities within the project area. The project area was previously permitted for construction under Application No. 031031-18, and was formerly known as the Ginn Property. The Ginn project included 4,354.5 acres of residential and golf course development along with wetland mitigation areas. The proposed project lies within the boundary of the previously permitted Ginn Property, and the permit area now consists of approximately 2,960 acres. Portions of the originally permitted area have been removed from the project (specifically the area north of Alico Road, and the northwest and southwest quadrants of the project) under Permit No. 36-05075-P / Application No. 140516-10. In addition, approximately 705.87 acres of the overall permit area have been modified and transferred to a different owner as part of the VistaBlue project (Basins I and J), under Application No. 180308-2.

Permit No. 36-05075-P / Application No. 140516-10 authorized construction of approximately 1,000 single-family residential units around the large existing lakes as well as a small commercial outparcel adjacent to Corkscrew Road. Following permit issuance, this application was petitioned by third parties with the Petition being heard before an Administrative Law Judge. During the Hearing, the petition was voluntarily dismissed and the Final Order to issue the Permit was made. However, as a result of the Hearing process, a number of changes to the design calculations and stormwater management plans supporting the permit were made. These changes were incorporated into the permit file as part of the most recent permit modification under Application No. 161003-5.

As a result of the aggregate mining activities, the project area contains two large lakes, averaging approximately 40 feet in depth. For information on the wetlands and other surface waters within the project, please refer to the Wetlands and Other Surface Waters section of this staff report.

LAND USE:

Refer to Page 8 of 39 of Exhibit 2.0 for a land use summary table.

WATER QUANTITY :

Discharge Rate :

As shown in the discharge summary table on Page 8 of 39 of Exhibit 2.0, the project discharge is within the allowable limit for the area.

Discharge Storm Frequency : 25 YEAR-3 DAY Design Rainfall : 10.8 inches

Finished Floors :

As shown in the water management summary table on Page 8 of 39 of Exhibit 2.0, minimum finished floor elevations have been set at or above the calculated design storm flood elevation.

Building Storm Frequency : 100 YEAR-3 DAY Design Rainfall : 13.5 inches

Road Design :

As shown in the water management summary table on Page 8 of 39 of Exhibit 2.0, minimum road center line elevations have been set at or above the calculated design storm flood elevation.

Road Storm Frequency : 5 YEAR-1 DAY Design Rainfall: 5.5 inches

WATER QUALITY :

Water quality treatment is provided in the combination of wet detention lakes and dry detention areas. As shown in the water quality summary table on Page 8 of 39 of Exhibit 2.0, the project provides the required treatment volume based on one inch over the controlled basin areas.

Pursuant to Appendix E of Environmental Resource Permit Applicant's Handbook Volume II, the provided water quality treatment includes an additional 50% treatment volume above the requirements in Section 4.2 of Volume II as reasonable assurance that the project will not have an adverse impact on the downstream waterbody.

In addition to the required water quality treatment volume, the applicant provided site specific pollutant loading calculations demonstrating that the SWM system reduces the post development loading of pollutants (specifically nutrients) to levels less than the loadings generated under the pre-development condition. The pollutant loading calculations are based upon the removal characteristics associated with the system.

The project also includes implementation of a Construction Stormwater Pollution Prevention Plan (Exhibit No. 2.1) and an Urban Stormwater Management Program (Exhibit No. 2.2) as additional reasonable assurance of compliance with water quality criteria during construction and operation.

WETLANDS:

Wetlands And Other Surface Waters:

Pursuant to Application No. 140516-10, the project resulted in 210.92 acres of direct and 3.20 acres of secondary on-site wetland impacts, 0.18 acres of direct off-site wetland impacts associated with right-of-way improvements along Alico Road, and 24.11 acres of OSW impacts. To offset the wetland impacts, the mitigation activities for the project included the preservation and enhancement of 734.10 acres of on-site wetlands and 419.78 acres of on-site uplands, enhancement of 10.59 acres of flow-way, creation of 93.69 acres of herbaceous wetlands, restoration of 5.84 acres of wetlands (through the backfilling and restoration of ditches) and 58.64 acres of uplands, and preservation of 887.41 acres of other surface waters (OSW). The mitigation activities will be conducted in seven phases (Mitigation Areas AB, CD, E, F, GH, I, and J) that correspond to the project's seven stormwater management drainage basins (Basins A - J). In addition, no mitigation was given for 64.50 acres of wetlands and 6.0 acres of uplands previously used as mitigation to offset impacts associated with previous impacts, as well as the 22.25 acres associated with the wetlands within the Florida Power and Light (FPL) easement. The 64.50 acres of wetlands and 6.0 acres of uplands have been placed under conservation easement; however, the 22.25 acres of FPL easement wetlands were not placed under conservation easement.

The project's conservation areas (A-J) total 1,328.64 acres. This acreage includes three areas that were previously permitted as mitigation for other projects (70.50 acres within this project area), as well as 3.11 acres of wetland restoration related to mitigation for mining activities authorized by the U.S. Army Corps of Engineers (Corps). These areas were not included in the mitigation calculations, but were included in the overall conservation easement area. The conservation areas have been placed under passive recreational conservation easement granted to the SFWMD with third party enforcement rights granted to

the Corps, the U.S. Fish and Wildlife Service (USFWS), and Lee County Board of County Commissioners. Please see Application No. 140516-10 for complete details.

The permit boundary now includes five owners, and Lennar Homes, LLC is the entity responsible for conducting the mitigation activities for mitigation areas A-H. Please see Special Condition 2.

Pursuant to Application No. 180308-2, Permit No. 36-05075-P-02, Mitigation Areas I and J were transferred to CalAtlantic Group, and are no longer within the permit area. These two mitigation areas will be tracked separately under Application No. 180308-2.

The hydrology of the on-site preserve areas shall be maintained by their inclusion as an outfall of the stormwater management system. Please see the plans attached as Exhibit 2.0 for complete details.

The development and preserve interfaces remain consistent with what was previously permitted, and therefore there are no additional direct or secondary wetland or OSW impacts associated with the proposed project.

Fish And Wildlife Issues:

Pursuant to Application No. 140516-10, the wetlands and surface waters to be impacted provide habitat for wetland-dependent species including, but not limited to: American alligators, wood storks and other wading birds, Big Cypress fox squirrels, Florida black bear, and Florida panther. No aquatic or wetland-dependent listed species or species having special protection were observed to be using the uplands within the project for nesting or denning. The proposed mitigation will provide or improve habitat for wetland- dependent/ aquatic species. The applicant has coordinated with the Florida Fish and Wildlife Conservation Commission on the site design of this project, to minimize any potential impacts to wildlife. Three 8' X 10' box culvert wildlife crossings will be installed at roadway crossings of the on-site flow-ways to maintain the connectivity of the preserve areas as a wildlife corridor. The project's design also includes a perimeter lake buffer between the majority of the residential development and the preserve areas. Where a lake buffer was not feasible adjacent to preserve areas, an eight-foot high wildlife fence will be installed. The applicant has also incorporated measures in the homeowner association documents to minimize potential human-wildlife conflict. Please see the Protected Species Management and Human-Wildlife Coexistence Plan attached as Exhibit 3.5 within Application No. 140516-10. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

LEGAL ISSUES:

The project area is currently owned by five entities; Lennar Homes, LLC, Alico East Fund, LLC, SDWB, LLC, Pulte Home Company, LLC, and SD Wildblue, LLC. Please see Exhibit 4.0 for ownership maps. Please note that SDWB, LLC and SD Wildblue, LLC are labeled under the Stock Development map.

Agreements between the permittees outlines that Lennar Homes, LLC will conduct the mitigation activities prior to, or concurrent with, any construction activities in the associated development basins. These agreements can be found in the ePermitting file. Please see Special Condition 2.

Pursuant to Application No. 140516-10, the applicants are proposing to phase construction and associated mitigation. Financial assurances shall be required for each individual phase prior to the beginning of construction of said phase. See Special Condition 12.

CERTIFICATION, OPERATION, AND MAINTENANCE:

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term

maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1-12.3 of the Applicant's Handbook Volume I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4 of the Applicant's Handbook Volume I for Minimum Operation and Maintenance Standards.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that groundwater wells will be used as a source for irrigation water for the project. Water Use Permit No. 36-05078-W has been previously approved for the project. However, due to the changes in ownership of portions of the original permit area, a modification to Water Use Permit No. 36-05078-W must be submitted to reflect the irrgated acreages within each owner's project area prior to any irrigation withdrawals. Please see Special Condition 10.

The applicant has indicated that dewatering is required for construction of this project. Dewatering Permit No. 36-08429-W has been previously approved for the project. However, due to the changes in ownership of portions of the original permit area, a modification to Water Use Permit No. 36-08429-W must be submitted to reflect the dewatering plan for each owner's project area prior to any dewatering activities. Please see Special Condition 12.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation. Please see Special Condition 11.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

Lee County Utilities.

Waste Water System/Supplier:

Lee County Utilities.

Right-Of-Way Permit Status:

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

Historical/Archeological Resources:

Pursuant to Application No. 180116-19, the District has received correspondence dated January 30, 2018 from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded on the site; therefore the project is unlikely to have an effect upon any such resources. This permit does not release the permittee from complying with any other agencies' requirements in the event that historical and/or archaeological resources are found on the site.

DEO/CZM Consistency Review:

Issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

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

Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

DIVISION APPROVAL:

NATURAL RESOURCE MANAGEMENT:

Laura Layman

DATE: 8/31/18

Laura Layman

SURFACE WATER MANAGEMENT:

DATE: 8/31/18

Brian Rose, P.E.



Exhibit No: 1	Exhibit Created On: 2018-01-17	LEE COUNTY, FL

REGULATION DIVISION

Project Name: WILDBLUE

Application

Permit No: 36-05075-P

Application Number: 180713-10

0 17,000 34,000 Feet

N

sfwmd.gov

Created by Regulation GIS Section

South Florida Water Management District

Exhibit 1.0
Application No. 180713-10
Page 1 of 1

ENVIRONMENTAL RESOURCE PERMIT PLANS

FOR

WILDBLUE

MAJOR MODIFICATION TO ERP #36-05075-P

PART OF SECTION 7,8,17-20, TOWNSHIP 46 SOUTH, RANGE 26 EAST
FORT MYERS, LEE COUNTY, FLORIDA

PROJECT DATA

SITE ADDRESS
13500 ALICO ROAD
FT. MYERS, FLORIDA 33913

ZONING
MPD (RESOLUTION Z-15-021)

FLOOD ZONE
ACCORDING TO FIRM 12071C0625 EFFECTIVE DATE AUGUST 28, 2008, THE SUBJECT PARCEL IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA (PANEL NOT PRINTED)

PROJECT DATUM
STATE PLANE FLORIDA WEST ZONE NAD 1983 (NSRS2007)
NORTH AMERICAN VERTICAL DATUM (NAVD) 1988

RECORD PLAT
PLT2017-00019
INSTRUMENT NO.: 2017000216031

STRAP NUMBERS

08-46-26-L2-050C2.00CE	17-46-26-L1-050F1.0000
17-46-26-L3-050C3.00CE	17-46-26-L4-050C5.00CE
18-46-26-L3-050C1.00CE	19-46-26-L2-050F2.0000
20-46-26-L2-050C7.00CE	20-46-26-L2-050C8.00CE
20-46-26-L2-050C9.00CE	20-46-26-L2-050F3.0000
20-46-26-L3-05C10.00CE	20-46-26-L4-050C6.00CE

PERMIT REQUIREMENTS

AGENCY	STATUS	NOTES
S. FLORIDA WATER MANAGEMENT DISTRICT	APPROVED	36-05075-P
LEE COUNTY DEVELOPMENT ORDER	APPROVED	-
FLORIDA DEPARTMENT OF HEALTH	PENDING	-
FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION	PENDING	-
F.D.O.T. CONNECTION PERMIT	N/A	-
F.D.O.T. DRAINAGE CONNECTION PERMIT	N/A	-
F.D.O.T. UTILITY PERMIT	N/A	-
ARMY CORPS OF ENGINEERS	APPROVED	SAJ-2003-10995
F.D.E.P. NOTICE OF INTENT	APPROVED	-

NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE A COPY OF ALL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY

DESIGN TEAM

PROJECT ENGINEER
TIMOTHY B. GAVIN, P.E.

PROJECT MANAGEMENT
CHRIS VAN BUSKIRK

DESIGN ENGINEER
TIMOTHY B. GAVIN, P.E.

PROJECT SURVEYOR
SCOTT A. WHEELER, PSM

LEAD DESIGN TECHNICIAN
AMBER GAVIN, E.I.
GUY SAPEN

SITE PLANNING
JENNIFER SAPEN, AICP

DESIGN STAFF
-

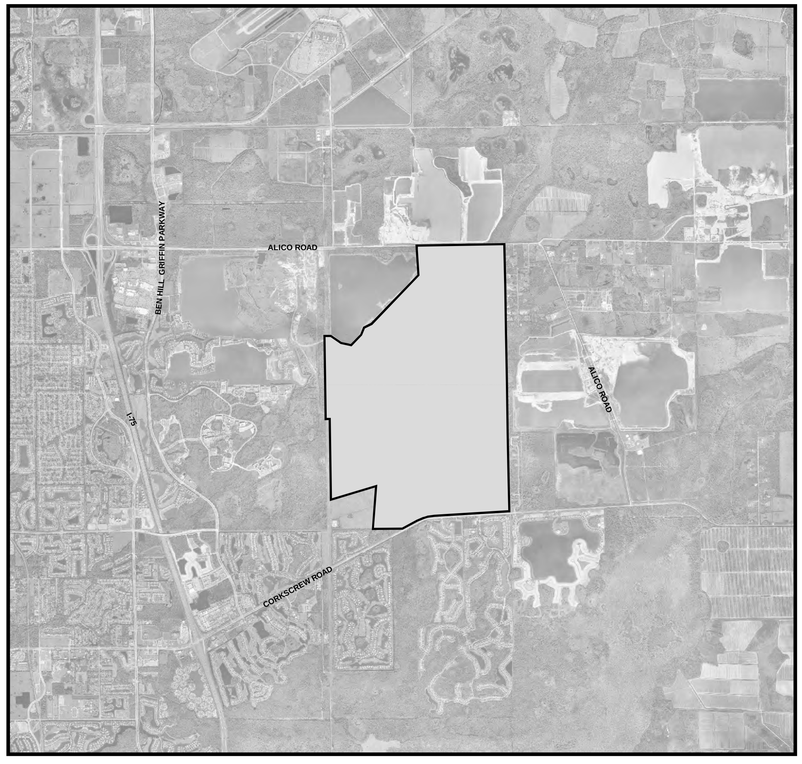
LAND PLANNING
JENNIFER SAPEN, AICP

QUALITY CONTROL
CHRIS VAN BUSKIRK

RECORD DRAWINGS

THESE PLANS MAY HAVE BEEN MODIFIED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ALL DIMENSIONS ARE IN FEET.



PROJECT LOCATION

N
W E
S

LOCATION MAP
0 2000 4000 8000
SCALE IN FEET

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.sunshine811.com

INDEX OF DRAWINGS

SHEET	DESCRIPTION	XREF	DRAWING NAME
1.0	COVER SHEET AND LOCATION MAP	B	23473E01.DWG
2.0	STANDARD NOTES, LEGEND, AND ABBREVIATIONS	-	23473E02.DWG
3.0	AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN	B	23473E06.DWG
4.0-4.1	MASTER SITE AND PHASING PLANS	A	23473E10.DWG
5.0-5.1	MASTER DRAINAGE PLAN	A	23473E11.DWG
6.0	GENERAL NOTES AND TABLES	-	23473E12.DWG
7.0-7.16	DETAILED PAVING, GRADING, AND DRAINAGE PLANS	A	23473E15.DWG
7.17	OFFSITE TURN-LANE IMPROVEMENT PLANS	A	23473E15.DWG
7.18	DETAILED COMMERCIAL DRAINAGE PLANS	A	23473E15.DWG
8.0-8.6	TYPICAL SECTIONS AND DRAINAGE DETAILS	-	23473E18.DWG
9.0-9.1	CONTROL STRUCTURE DETAILS	-	23473E42.DWG
10.0	EROSION CONTROL DETAILS	-	23473E50.DWG
11.0- 11.1	STORMWATER POLLUTION PREVENTION PLAN	A	23473E52.DWG
12.0	DOCK & BOAT RAMP DETAILS	A	23473E99.DWG

CROSS-REFERENCED DRAWINGS:

XREF	DESCRIPTION	DRAWING NAME
A	BASE LINEWORK PLAN	23473E00.DWG
B	AERIAL PHOTOGRAPH	IMAGE_1.JPG

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

Barraco and Associates, Inc.
CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE DESIGN
www.barraco.net
2271 McGREGOR BLVD., SUITE 100
POST OFFICE DRAWER 2800
FORT MYERS, FLORIDA 33902-2800
PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

DRAWING NOT VALID WITHOUT SEAL, SIGNATURE AND DATE
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FILE NAME	23473E01.DWG
LOCATION	J:\23473\DWG\ERP\
PLOT DATE	TUE. 8-21-2018 - 11:16 AM
PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

MASTER = BAI-COVER-1.DWG

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

COVER SHEET
AND
LOCATION MAP

PROJECT / FILE NO.	SHEET NUMBER
23473	1.0

STANDARD ABBREVIATIONS

NOTE: SEE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 001 FOR ADDITIONAL ABBREVIATIONS NOT LISTED BELOW.

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	CULV.	CULVERT	FIN.	FINISH	M.H.W.	MEAN HIGH WATER	REL.	RELOCATED
ABD.	ABANDONED	C.Y.	CUBIC YARD	FL.	FLORIDA	MI.	MILE	REM.	REMOVED
AC.	ACRE	CYL.	CYLINDRICAL	FLEX.	FLEXIBLE	MIN.	MINIMUM	REQ.	REQUIRED
A.D.A.	AMERICANS WITH DISABILITIES ACT	D.	DEGREE OF CURVATURE	F.M.	FORCEMAIN	MISC.	MISCELLANEOUS	RES.	RESIDENCE
ADJ.	ADJUST	DA.	DAY(S)	F.O.C.	FACE OF CURB	M.L.W.	MEAN LOW WATER	R.M.	REFERENCE MONUMENT
A.D.T.	AVERAGE DAILY TRAFFIC	(D)	DEED	F.P.S.	FEET PER SECOND	MM.	MILLIMETER	R.P.M.	RAISED REFLECTIVE PAVEMENT MARKERS
A.E.	ACCESS EASEMENT	D.A.	DRAINAGE AREA	FRAC.	FRACTION	MOD.	MODIFY OR MODIFIED		
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	D.B.	DEED BOOK	FREQ.	FREQUENCY	MON.	MONUMENT	R.P.B.D.	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
AGG.	AGGREGATE	D.B.I.	DITCH BOTTOM INLET	FT.	FOOT OR FEET	M.O.T.	MAINTENANCE OF TRAFFIC	R.R.	RAILROAD
A.I.C.P.	AMERICAN INSTITUTE OF CERTIFIED PLANNERS	DBL.	DOUBLE	FURN.	FURNISH	M.P.H.	MILES PER HOUR	RT.	RIGHT
ALT.	ALTERNATE	D.C.S.	DEGREE OF CURVATURE (SPIRAL)	G.	GRAM	M.S.L.	MEAN SEA LEVEL	R/W	RIGHT OF WAY
ALUM.	ALUMINUM	D.D.C.V.	DOUBLE DETECTOR CHECK VALVE	GAL.	GALLON	M.U.T.C.A.	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	S.	SOUTH
A.M.	12:00 MIDNIGHT UNTIL 11:59 NOON	D.E.	DRAINAGE EASEMENT	GALV.	GALVANIZED			SAN.	SANITARY
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE	DECEL.	DECELERATION	GA.	GAUGE OR GAGE	N.	NORTH	SCH.	SCHEDULE
APPL.	APPLICATION	DEMOBL.	DEMOBILIZATION	GAR.	GARAGE	N/A	NOT APPLICABLE	SE.	SOUTHEAST
ASPH.	ASPHALT	DEN.	DENSITY	GOVT.	GOVERNMENT	NE.	NORTHEAST	SEC.	SECTION
ASSY.	ASSEMBLY	DEPT.	DEPARTMENT	GM.	GROSS MILE	NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929	SED.	SEDIMENT
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	DET.	DETOUR	GR.	GUARDRAIL	NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988	SG.	SPECIFIC GRAVITY
AUX.	AUXILIARY	D.H.W.	DESIGN HIGH WATER	GRND.	GROUND	N.G.S.	NATIONAL GEODETIC SURVEY	SH.	SHEET
AVE.	AVENUE	DIA.	DIAMETER	GV.	GATE VALVE	N.G.W.	NORMAL HIGH WATER	SHLDR.	SHOULDER
AVG.	AVERAGE	D.I.P.	DUCTILE IRON PIPE	H.	HEIGHT	NM.	NET MILE	S.H.W.T.	SEASONAL HIGH WATER TABLE
B.E.	BURIED ELECTRIC	DIR.	DIRECTION	H.D.	HIGH DENSITY	N.T.S.	NOT TO SCALE	SPEC.	SPECIFICATION
B/L.	BASE LINE	DIST.	DISTANCE	HDWL.	HEADWALL	NW.	NORTH WEST	S.F.	SQUARE FOOT
BLVD.	BOULEVARD	D.O.T.	DEPARTMENT OF TRANSPORTATION	HNDRL.	HANDRAIL	O.D.	OUTSIDE DIAMETER	S.R.	STATE ROAD
B.M.	BENCHMARK	DR.	DRIVE	HORIZ.	HORIZONTAL	O.E.	OVERHEAD ELECTRIC	ST.	STREET
B.O.C.	BACK OF CURB	DRWY.	DRIVEWAY	H.P.	HIGH PRESSURE OR HORSE POWER	OPT.	OPTIONAL	STA.	STATION
BOT.	BOTTOM	D.S.	DESIGN SPEED	H.W.	HIGH WATER	O.R.	OFFICIAL RECORD BOOK	STAB.	STABILITY OR STABILIZATION
B.P.	BORROW PIT	D.S.W.T.	DRY SEASON WATER TABLE	HWY.	HIGHWAY	OZ.	OUNCE	STD.	STANDARD
BR.	BRIDGE	DWG.	DRAWING	HYD.	HYDRANT	(P)	PLAT	STR.	STRUCTURE
BRG.	BEARING	E.	EAST	I.	EXTERNAL ANGLE (DELTA)	PAVT.	PAVEMENT	S.Y.	SQUARE YARD
B.T.	BURIED TELEPHONE	E.L.	EACH	I.D.	INSIDE DIAMETER	P.C.	POINT OF CURVATURE	SW.	SOUTHWEST
BTWN.	BETWEEN	E.	RATE OF SUPER ELEVATION	I.E.	INVERT ELEVATION	P.E.	PROFESSIONAL ENGINEER	S/W	SIDEWALK
B/W	BARBED WIRE	ED.	EACH DAY	IN.	INCH	PED.	PEDESTRIAN OR PEDESTAL	T.	THICKNESS
CALC.	CALCULATED	E.I.	ENGINEERING INTERN	INC.	INCORPORATED	P.G.	PAGE	TAN.	TANGENT
(C)	CALCULATED	EL.or ELEV.	ELEVATION	INCL.	INCLUDED	P.G.L.	PROFILE GRADE LINE	TWP.	TOWNSHIP
CAP.	CAPACITY	ELEC.	ELECTRIC	I.P.	IRON PIPE	P.I.E.	PRIVATE IRRIGATION EASEMENT	T.B.M.	TEMPORARY BENCH MARK
CATV.	CABLE TELEVISION	ELIP.	ELLIPTICAL	I.R.	IRON ROD	P.I.V.	POST INDICATOR VALVE	T.B.D.	TO BE DETERMINED
C.B.	CATCH BASIN	EMBK.	EMBANKMENT	IRR.	IRRIGATION	PH	MEASURE OF ACIDITY OR ALKALINITY	T.B.R.	TO BE REMOVED
CBC.	CONCRETE BOX CULVERT	ENCL.	ENCLOSURE	INSTL.	INSTALL OR INSTALLATION			TEL.	TELEPHONE
CBS.	CONCRETE BOX STRUCTURE	E.O.P.	EDGE OF PAVEMENT	INST. NO.	INSTRUMENT NUMBER	P.I.	POINT OF INTERSECTION	TEMP.	TEMPORARY
C/C	CENTER TO CENTER	E.O.W.	EDGE OF WATER	INT.	INTERSECTION	PK.	PARKER-KALON	TN.	TON
CCMB.	COUNTY COMMISSIONERS MINUTES BOOK	EQ.	EQUATION OR EQUAL	INV.	INVERT	PROP.	PROPERTY	T.U.E.	TECHNOLOGY UTILITY ESMT.
CEM.	CEMENT	EQUIP.	EQUIPMENT	J.B.	JUNCTION BOX	P.U.E.	PUBLIC UTILITY EASEMENT	TYP.	TYPICAL
C.F.	CUBIC FOOT	E.R.C.P.	ELLIPTICAL REINFORCED CONCRETE PIPE	JCT.	JUNCTION	P.S.I.	POUNDS PER SQUARE INCH	UG.	UNDERGROUND
C.I.	CAST IRON	ESMT.	EASEMENT	JT.	JOINT	P.S.M.	PROFESSIONAL SURVEYOR AND MAPPER	U.E.	UTILITY EASEMENT
C.I.P.	CAST IRON PIPE	ETC.	ET CETERA (AND SO FORTH)	K.	RATE OF VERTICAL CURVATURE	P.V.C.	POLYVINYL CHLORIDE PIPE	USC&GS	UNITED STATES COAST AND GEODETIC SURVEY
C/L	CENTER LINE	E.W.	ENDWALL	KM.	KILOMETER	PVI.	POINT OF VERTICAL INTERSECTION		
CONC.	CONCRETE	EXCAV.	EXCAVATION	KV.	KILOVOLT	Q.	PEAK DISCHARGE OR FLOW VOLUME (CFS)	USGS	UNITED STATES GEOLOGICAL SURVEY
C.M.	CONCRETE MONUMENT	EX.	EXISTING	KVA.	KILOVOLT AMPERES	QTY.	QUANTITY	V.	VOLUME
C.M.P.	CORRUGATED METAL PIPE	EXP.	EXPANSION	L.	LENGTH, LENGTH OF CURVE, LITRE	R. or RAD.	RADIUS	VAR.	VARIABLE
CO.	COUNTY OR COMPANY	EXT.	EXTENSION	L.A.	LIMITED ACCESS	RD.	ROAD	V.C.	VERTICAL CURVE
C/O	CLEANOUT	F.	FILL	LAT.	LATERAL OR LATITUDE	RNG.	RANGE	VEH.	VEHICLE
COL.	COLUMN	F. TO F.	FACE TO FACE	L.C.R.	LEE COUNTY RECORDS	R.C.P.	REINFORCED CONCRETE PIPE	V.F.	VERTICAL FOOT
COM.	COMMERCIAL	FAC.	FLORIDA ADMINISTRATIVE CODE	L.C.U.	LEE COUNTY UTILITIES	RNG.	RANGE	VERT.	VERTICAL
CONST.	CONSTRUCTION	F.A.C.B.C.	FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION	L.C.U.E.	LEE COUNTY UTILITIES EASEMENT	REC.	RECORD	VOL.	VOLUME
CONTR.	CONTRACTOR	F.B.C.	FLORIDA BUILDING CODE	L=	ARC LENGTH	RECT.	RECTANGULAR	W.	WEST
COORD.	COORDINATE	FD.	FOUND	LF.	LINEAR FOOT	REINF.	REINFORCED OR REINFORCING	WIT.	WITNESS
COR.	CORNER	F.D.C.	FIRE DEPARTMENT CONNECTION	L.M.E.	LAKE MAINTENANCE EASEMENT			W.M.	WATERMAIN
C.P.	CONTROL POINT	FDN.	FOUNDATION	LOC.	LOCATION			X.	COORDINATE DISTANCE(EAST-WEST)
C.R.	CONTROL RADIUS	F.D.O.T.	FLORIDA DEPARTMENT OF TRANSPORTATION	L.S.	LUMP SUM			XING.	CROSSING
C.S.	CONTROL STRUCTURE	FED.	FEDERAL	LT.	LEFT			Y.	COORDINATE DISTANCE (NORTH-SOUTH)
CTR.	CENTER	FERT.	FERTILIZER	M.	MASS			YR.	YEAR
C.U.E.	COUNTY UTILITY EASEMENT	F.E.S.	FLARED END SECTION	(M)	MEASURED				
		F.F.E.	FINISHED FLOOR ELEVATION	MAINT.	MAINTENANCE				
		FH.	FIRE HYDRANT	MAX.	MAXIMUM				
		FHWA.	FEDERAL HIGHWAY ADMINISTRATION	MED.	MEDIAN				
				M.E.S.	MITERED END SECTION				
				MG	MILLION GALLONS				
				M.H.	MANHOLE				

GENERAL NOTES

NOTE: SEE ADDITIONAL NOTES ON SITE DEVELOPMENT PLANS AND DETAIL SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON SITE DEVELOPMENT PLANS.

1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, F.D.O.T. DESIGN STANDARDS AND APPLICABLE DESIGN STANDARDS MODIFICATIONS FOUND AT http://www.dot.state.fl.us/rddesign AND ALL LOCAL CODES.
2. ALL APPROVALS REQUIRED IN CONJUNCTION WITH THESE NOTES MUST BE OBTAINED IN WRITING BY THE CONTRACTOR. ANY DEVIATIONS FROM THE PLANS AND / OR SPECIFICATIONS MUST BE APPROVED IN ADVANCE BY THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCY.
3. CONTRACTOR SHALL ENSURE THAT ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION, THAT COPIES OF ALL PERMITS ARE RETAINED ON SITE AT ALL TIMES AND SHALL ADHERE TO ALL PERMIT CONDITIONS. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE ENGINEER'S OFFICE TO SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS REQUIRED FOR WORK WITHIN F.D.O.T. RIGHT-OF-WAY.
4. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (F.A.C.B.C.). MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND CROSSWALKS.
5. SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY. ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX 304 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO CURB CUTS SHALL DEVIATE FROM STANDARD DETAIL BY NOT EXCEEDING 12:1 SLOPES.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED BY THE RESPECTIVE PERMIT.
7. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES A MINIMUM OF 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL DETERMINE IF UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS EXIST. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION AND OTHER IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT SIZES, ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND IF IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED BY THE CONTRACTOR.
9. EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE, AND SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL OBTAIN ANY CLEARING, VEGETATION REMOVAL OR RIGHT-OF-WAY PERMITS REQUIRED FOR THIS PROJECT. ALL DEBRIS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. CONTRACTOR SHALL ASSURE THAT ALL TRAFFIC CONTROL DEVICES MEET ACCEPTABLE STANDARDS AS OUTLINED IN THE LATEST EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA's) "QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES", AND SHALL IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED OR DIRTY DEVICES. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ANY IMPACTS TO TRAFFIC FLOW SHALL BE COORDINATED WITH AND APPROVED BY THE APPROPRIATE LOCAL AGENCY.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE.
13. THE LOCATIONS OF PROPOSED DRAINAGE STRUCTURES AND UTILITY LINES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED IN ADVANCE BY THE ENGINEER. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN, WITHIN THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY OWNER.
14. INSTALLATION OF SUBSURFACE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATER, SEWER AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE.
15. SUBGRADE AND LIMEROCK BASE COURSES TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO T-180 TESTING. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMEROCK PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING.
16. SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY. ALL UNPAVED AREAS SHALL BE GRADED TO DRAIN TO THE DRAINAGE SYSTEM TO PREVENT STANDING WATER. YARD DRAINS MAY BE ADDED IN GREEN AREAS AS NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER, AND SHALL HAVE PEDESTRIAN-SAFE GRATES MEETING THE REQUIREMENTS OF H-20 LOADING.
17. BERM ELEVATIONS SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR MAY EXCEED THE MINIMUM BERM ELEVATION BY UP TO 0.5 FEET PROVIDED ALL SLOPE CRITERIA IS MET. ANY CONSTRUCTION OF BERMS IN EXCESS OF THAT LIMIT MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN ONE WEEK OF COMPLETION OF DRAINAGE CONTROL STRUCTURES SO THAT ELEVATIONS MAY BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION.
19. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE.
20. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE IN REGARDS TO THE LOCATION, SIZE AND QUANTITY OF ALL CONDUITS FOR UTILITIES, IRRIGATION, LIGHTING AND OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION OF THE ROADWAY SUBGRADE. CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 30" COVER, EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END, AND ENDS SHALL BE SEALED AND DENOTED WITH MARKING TAPE
21. CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICAL MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH ELEVATIONS. THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR.
22. SOD A 12" STRIP ADJACENT TO ALL PAVEMENT PER F.D.O.T. REQUIREMENTS. SOD ALL UNPAVED DISTURBED AREAS WITHIN F.D.O.T. RIGHT OF WAY. ALL OTHER UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED AND MULCHED UNLESS NOTED OTHERWISE.
23. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
24. THE PROPERTY OWNER OR DESIGNATED AUTHORITY IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS SHOWN IN THESE DRAWINGS AND AS REQUIRED BY LOCAL, STATE AND FEDERAL PERMITS. IT IS FURTHER RECOMMENDED THAT THE SURFACE WATER MANAGEMENT SYSTEM BE INSPECTED SEMI-ANNUALLY.
25. CONTRACTOR SHALL VERIFY DESIGN DETAILS WITH ENGINEER PRIOR TO ORDERING STRUCTURES. STRUCTURE TYPES LABELED ON THE PLANS FOR ITEMS SUCH AS JUNCTION BOXES AND INLETS MAY ONLY BE A REFERENCE TO THE TOP OF THE STRUCTURE. CERTAIN STRUCTURE TYPES REQUIRE A LARGER BOTTOM TO ACCOMMODATE LARGER PIPE SIZES AND/OR PIPE ANGLES. THE APPROPRIATE SIZE AND SHAPE OF THE BOTTOM OF THE STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR WITH CONSIDERATION GIVEN TO ADJACENT EXISTING OR PROPOSED UTILITIES. THE COST FOR THE ENTIRE STRUCTURE IS INCLUDED IN THE UNIT PRICE FOR THE PRIMARY STRUCTURE.
26. STORM DRAIN PIPE LENGTHS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM INSIDE FACE OF STRUCTURE. SANITARY SEWER PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM THE CENTER OF STRUCTURE.
27. CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION BETWEEN UTILITIES AS SHOWN ON "UTILITY LOCATION DETAIL" AND IN ACCORDANCE WITH APPLICABLE LOCAL UTILITY SERVICE PROVIDER REQUIREMENTS.
28. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE / NSF INTERNATIONAL STANDARD 61. ALL COMPONENTS, INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL A.W.W.A. APPLICABLE STANDARDS.
29. CONTRACTOR TO COORDINATE WITH ALL OTHER CONTRACTORS WORKING ON THE PROJECT SITE, THE OWNERS' REPRESENTATIVE AND WITH ELECTRIC, TELEPHONE AND CABLE COMPANIES TO ASSURE THAT NO SANITARY SEWER, WATERLINE OR IRRIGATION SERVICES ARE INSTALLED UNDER PROPOSED TRANSFORMERS.
30. DEFLECTION TESTING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS FOR GRAVITY SEWER MAY NOT BE UNDERTAKEN UNTIL 30 DAYS AFTER FINAL BACKFILLING OF THE TRENCH IS COMPLETE. SEWER DEFLECTION MAY NOT EXCEED THE MAXIMUM PROVIDED IN THE TECHNICAL SPECIFICATIONS OR 5%, WHICHEVER IS LESS.
31. ALL GRAVITY SEWER MAINS SHALL BE TESTED WITH A MANDREL WITH A DIAMETER OF NOT LESS THAN 95% OF THE INSIDE PIPE DIAMETER. MANDREL TESTS MUST BE PERFORMED WITHOUT USE OF MECHANICAL PULLING DEVICES.
32. NO VEGETATION OR OTHER OBSTRUCTIONS SHALL BE PLACED SO AS TO BLOCK ACCESS OR LINE OF SIGHT TO FIRE HYDRANTS, F.D.C, P.I.V, ETC. IN ACCORDANCE WITH LOCAL FIRE JURISDICTION AND / OR AS SHOWN IN DETAILS.
33. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA FIRE CODE. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NFPA 24. CONTRACTOR TO VERIFY FIRE LINE SIZE WITH BUILDING PLANS PRIOR TO CONST.

SYMBOL LEGEND

NOTE: THE SYMBOLS REPRESENTED BELOW ARE STANDARDS UTILIZED BY THIS FIRM AND NOT ALL ARE REQUIRED FOR THE SUBJECT PROJECT.

DRAINAGE

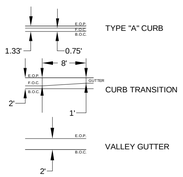
- VALLEY GUTTER INLET
- DITCH BOTTOM INLET
- DRAINAGE JUNCTION BOX
- MITERED END SECTION
- CONTROL STRUCTURE
- HEADWALL
- FLARED END SECTION
- TYPE 5 INLET (LEFT)
- TYPE 5 INLET (RIGHT)
- TYPE 6 INLET
- TYPE 9 INLET
- TYPE 10 INLET
- YARD DRAIN
- FLOW ARROW

UTILITIES

- 11.25° BEND
- 22.5° BEND
- 45° BEND
- 90° BEND
- TEE
- REDUCER
- AIR RELEASE VALVE
- WYE
- CROSS
- CAP OR PLUG
- BACTERIOLOGICAL SAMPLE POINT
- PERMANENT BLOW OFF ASSEMBLY
- TEMPORARY BLOW OFF ASSEMBLY
- 45° VERTICAL DEFLECTION
- GATE VALVE
- PLUG VALVE
- SANITARY SEWER MANHOLE
- SINGLE SANITARY SEWER SERVICE
- DOUBLE SANITARY SEWER SERVICE
- CLEANOUT
- PUMP STATION
- SINGLE IRRIGATION SERVICE
- DOUBLE IRRIGATION SERVICE
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT ASSEMBLY (PLAN VIEW)
- FIRE HYDRANT ASSEMBLY (PROFILE VIEW)
- GATE VALVE (PROFILE VIEW)

STANDARD CURB TYPES

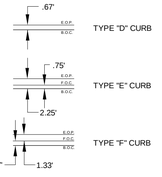
SEE F.D.O.T. INDEX 300 FOR ADDITIONAL DETAILS



TYPE "A" CURB

CURB TRANSITION

VALLEY GUTTER



TYPE "D" CURB

TYPE "E" CURB

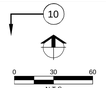
TYPE "F" CURB

SIGNAGE AND MARKINGS

- SIGN (PLAN VIEW)
- CONSERVATION SIGN LOCATION NOTE: FINAL LOCATIONS TO BE FIELD LOCATED AFTER CONSTRUCTION WITH WATER MANAGEMENT DISTRICT STAFF.
- HANDICAP SYMBOL
- M MODEL HOMES, MODEL UNITS, MODEL DISPLAY CENTERS.
- "NO MOWING/HERBICIDING" SIGN ALONG LAKE SHORELINE
- LEFT ONLY
- RIGHT ONLY
- LEFT OR RIGHT
- STRAIGHT OR RIGHT
- STRAIGHT OR LEFT
- STRAIGHT, LEFT OR RIGHT
- STRAIGHT

IDENTIFICATION

- 69 LOT NUMBER
- B9 BUILDING ID NUMBER
- D1-1 STORM STRUCTURE I.D.
- XXX SANITARY STRUCTURE I.D.
- FH FIRE HYDRANT LABEL
- SOIL BORING LOCATION



SECTION LABEL

NORTH ARROW

BAR SCALE

EROSION CONTROL

NOTE: SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.

- INLET PROTECTION
- DOUBLE ROW SILT FENCE
- SINGLE ROW SILT FENCE
- FLOATING TURBIDITY BARRIER

SURVEYING

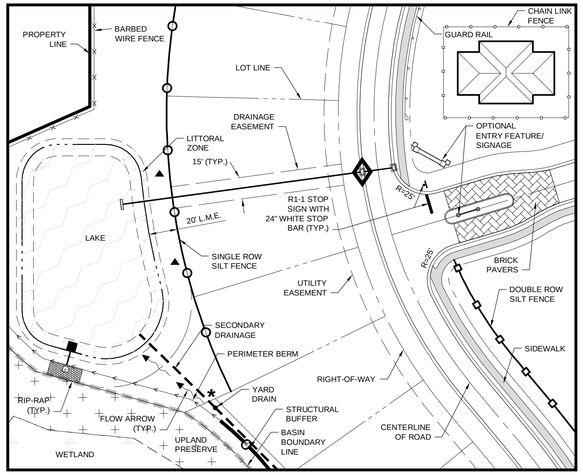
- FOUND NAIL AS NOTED
- SET 1/2" IRON ROD WITH CAP STAMPED LB6940
- SET 4"x4" CONC. MONUMENT STAMPED LB6940
- SET P.K. NAIL WITH DISC STAMPED LB6940
- FOUND CONC. MONUMENT AS NOTED
- FOUND IRON PIPE OR IRON ROD AS NOTED
- DRAINAGE INLET
- DRAINAGE MANHOLE
- MITERED END SECTION
- LIGHT POLE
- CONCRETE POWER POLE
- WOOD POWER POLE
- GUY ANCHOR
- GAS LINE MARKER
- TELEPHONE RISER
- WATER BOX
- ELECTRIC BOX
- SIGN
- FIRE HYDRANT
- WOV WATER VALVE
- SANITARY MANHOLE
- SANITARY CLEAN OUT
- SCO
- FCM SANITARY SEWER VALVE
- BENCH MARK

QUANTITIES AND PAYMENT

CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS. ITEMS NOT SPECIFICALLY REFERENCED IN THE SPECIFICATIONS OR BID TABULATION SHALL BE PAID FOR PER THE LATEST VERSIONS OF THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX AND F.D.O.T. STANDARD SPECIFICATION SECTION.

LINETYPE AND HATCHING LEGEND

NOTE: THE DRAWING BELOW IS PROVIDED AS ONLY AN EXAMPLE OF STANDARD LINETYPES AND HATCHING UTILIZED BY THIS FIRM AND IS NOT REPRESENTATIVE OF THE SUBJECT PROJECT.



STANDARD STREET SIGNS

THE SIGN LEGEND BELOW IS PROVIDED AS A GRAPHICAL REFERENCE TO ONE OR MORE OF THE SIGNS REQUIRED FOR THIS PROJECT. THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHOULD BE REFERENCED FOR SPECIFIC DETAILS AND LOCATION REQUIREMENTS.

- R1-1 STOP SIGN - ALL STOP SIGNS SHALL INCLUDE A 24" WIDE PAINTED STOP BAR OR CONTRASTING COLOR OF BRICK PAVERS
- R1-2 YIELD SIGN
- R5-1 DO NOT ENTER SIGN
- FTP-20-04 HANDICAP PARKING SIGN
- FTP-22-04 SPEED LIMIT SIGN
- R2-1 KEEP RIGHT SIGN
- R4-7 PRESERVE SIGN
- W1-6L LARGE LEFT ARROW (ONE DIRECTION) SIGN
- W1-6R LARGE RIGHT ARROW (ONE DIRECTION) SIGN
- W1-7 TWO-DIRECTION LARGE ARROW SIGN
- W11-2 PEDESTRIAN CROSSING SIGN
- W16-7pL DIAGONAL ARROW PLAQUE
- W16-7pR
- W14-2 NO OUTLET SIGN
- R6-3 DIVIDED HIGHWAY SIGN
- OM4-1 END OF ROADWAY MARKERS
- R3-7L LEFT LANE MUST TURN LEFT SIGN
- R3-7R RIGHT LANE MUST TURN RIGHT SIGN
- R6-1L ONE WAY LEFT SIGN
- R6-1R ONE WAY RIGHT SIGN
- R3-5L L



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PHONE (239) 461-3170
FAX (239) 461-3169

FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

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PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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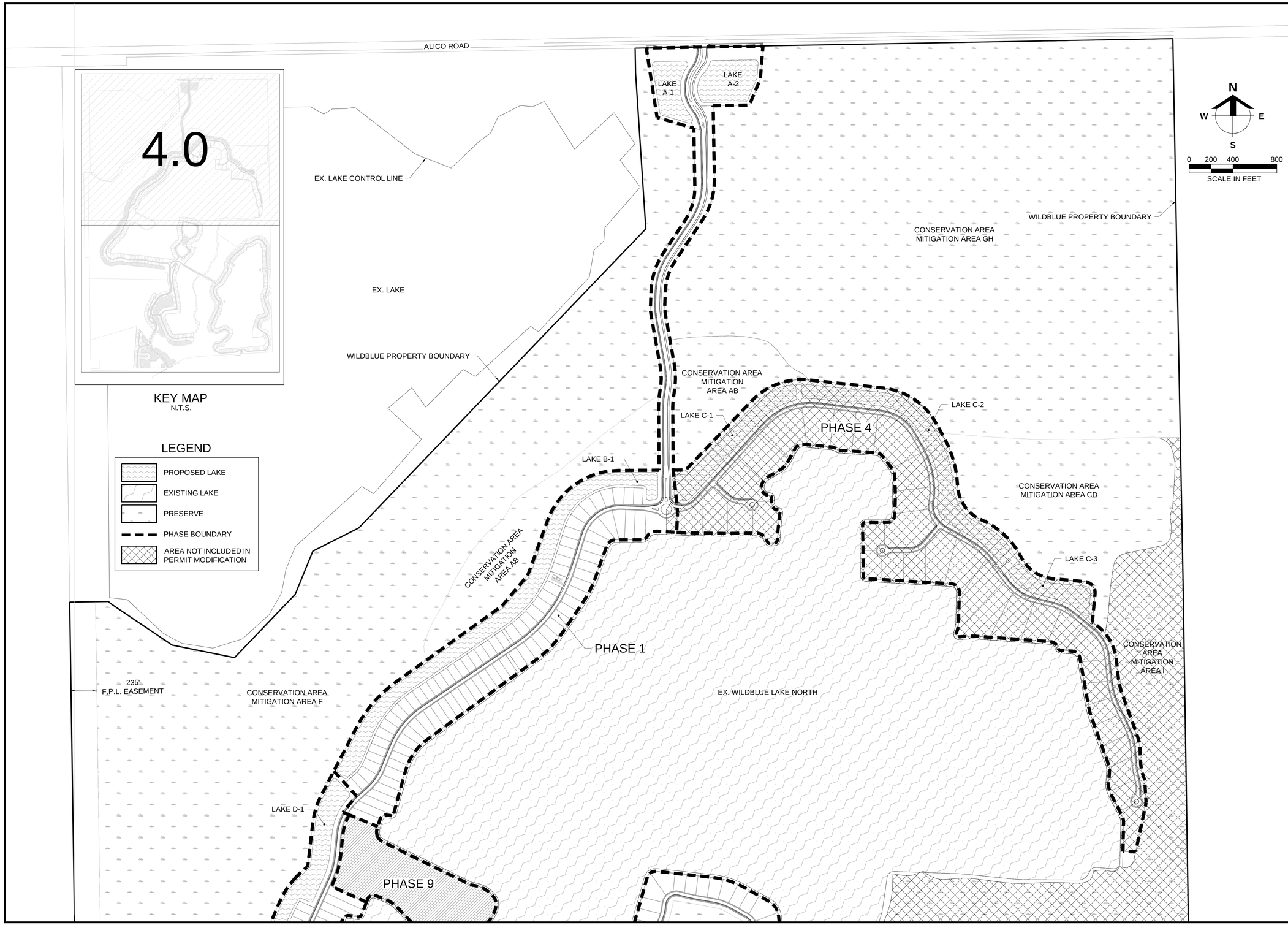
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN

PROJECT / FILE NO.	SHEET NUMBER
23473	3.0



4.0

KEY MAP
N.T.S.

LEGEND

- PROPOSED LAKE
- EXISTING LAKE
- PRESERVE
- PHASE BOUNDARY
- AREA NOT INCLUDED IN PERMIT MODIFICATION

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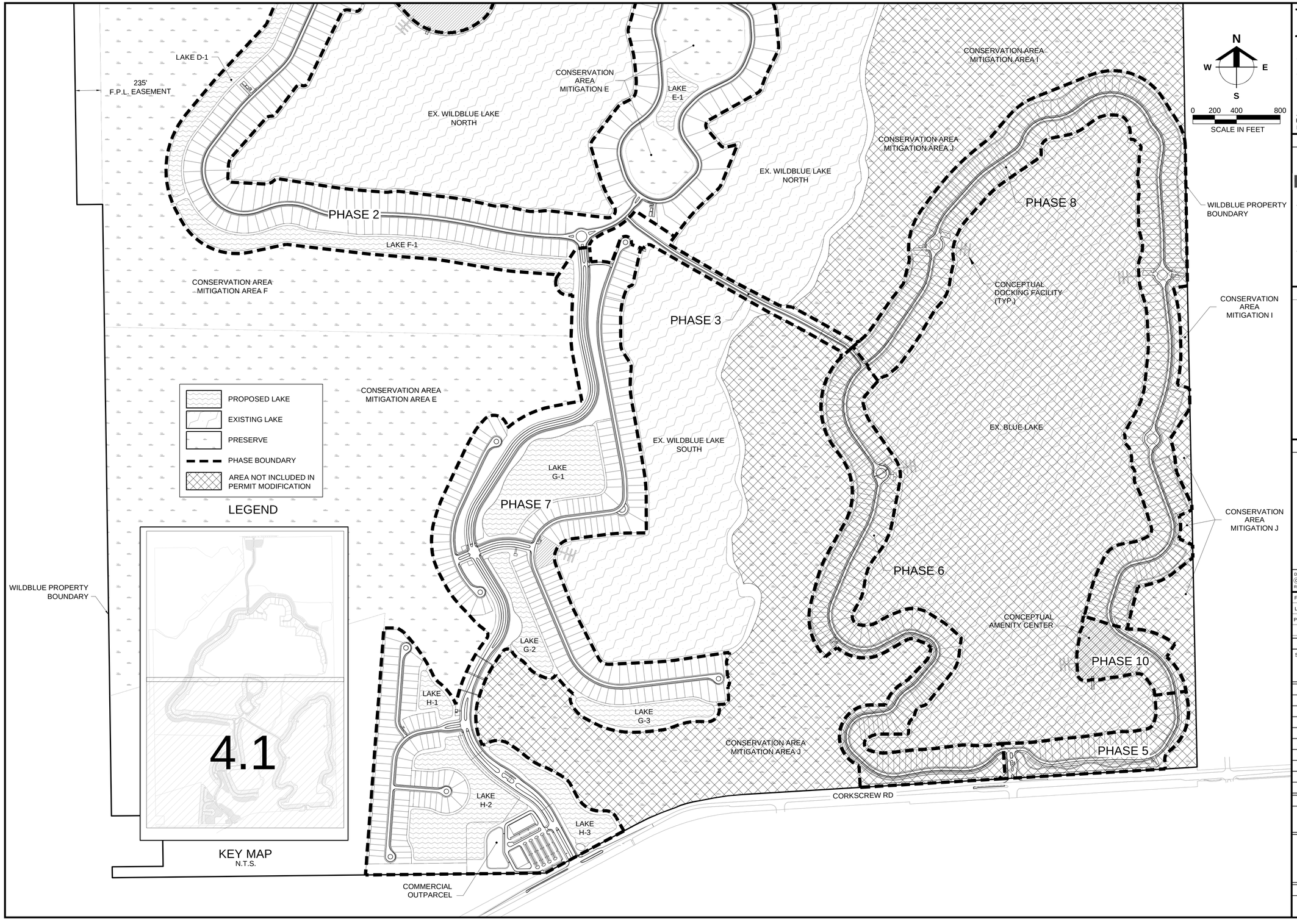
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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MASTER SITE AND PHASING PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	4.0



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PREPARED FOR

LENNAR

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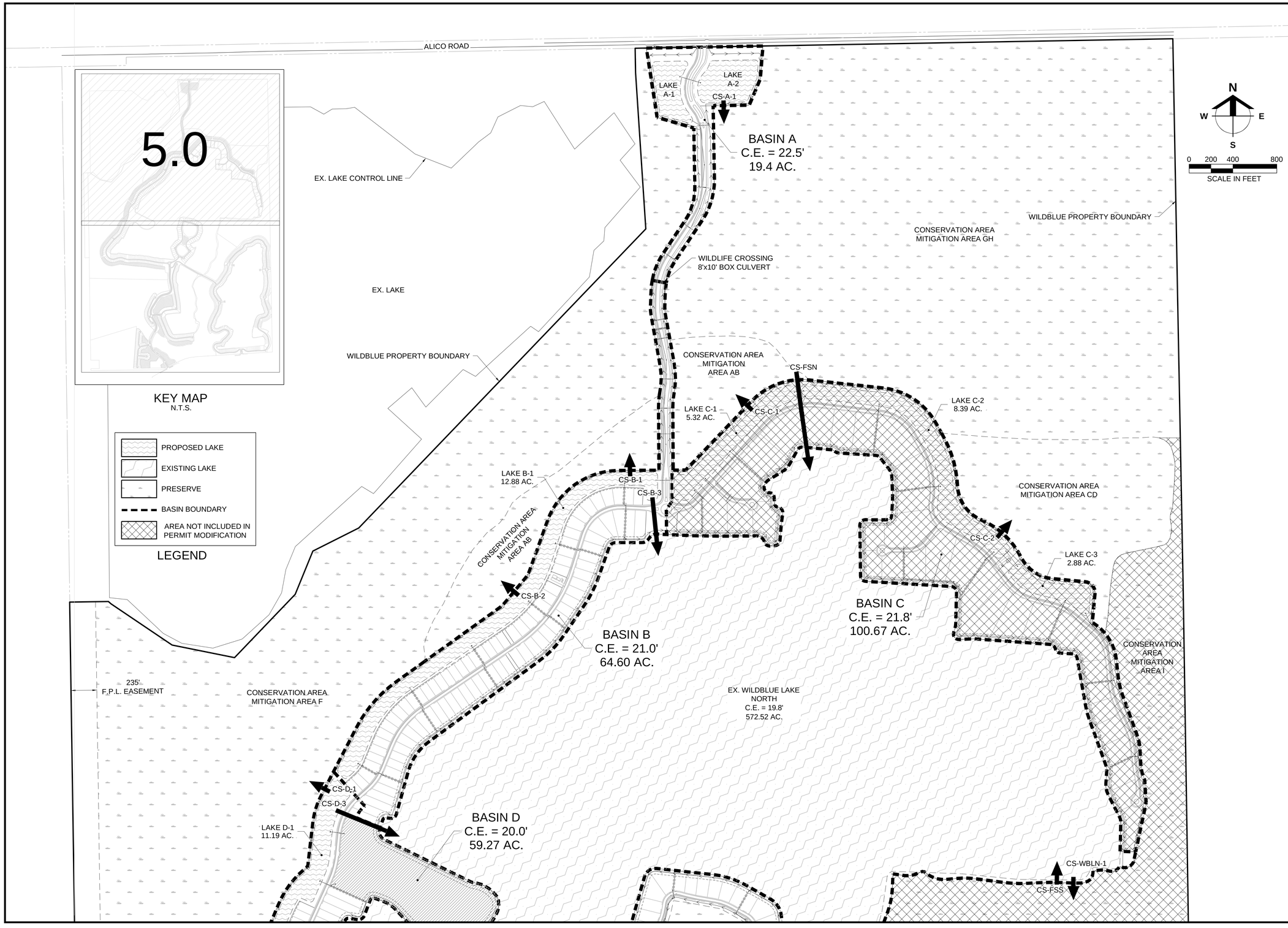
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

MASTER SITE AND PHASING PLANS

PROJECT / FILE NO.	SHEET NUMBER
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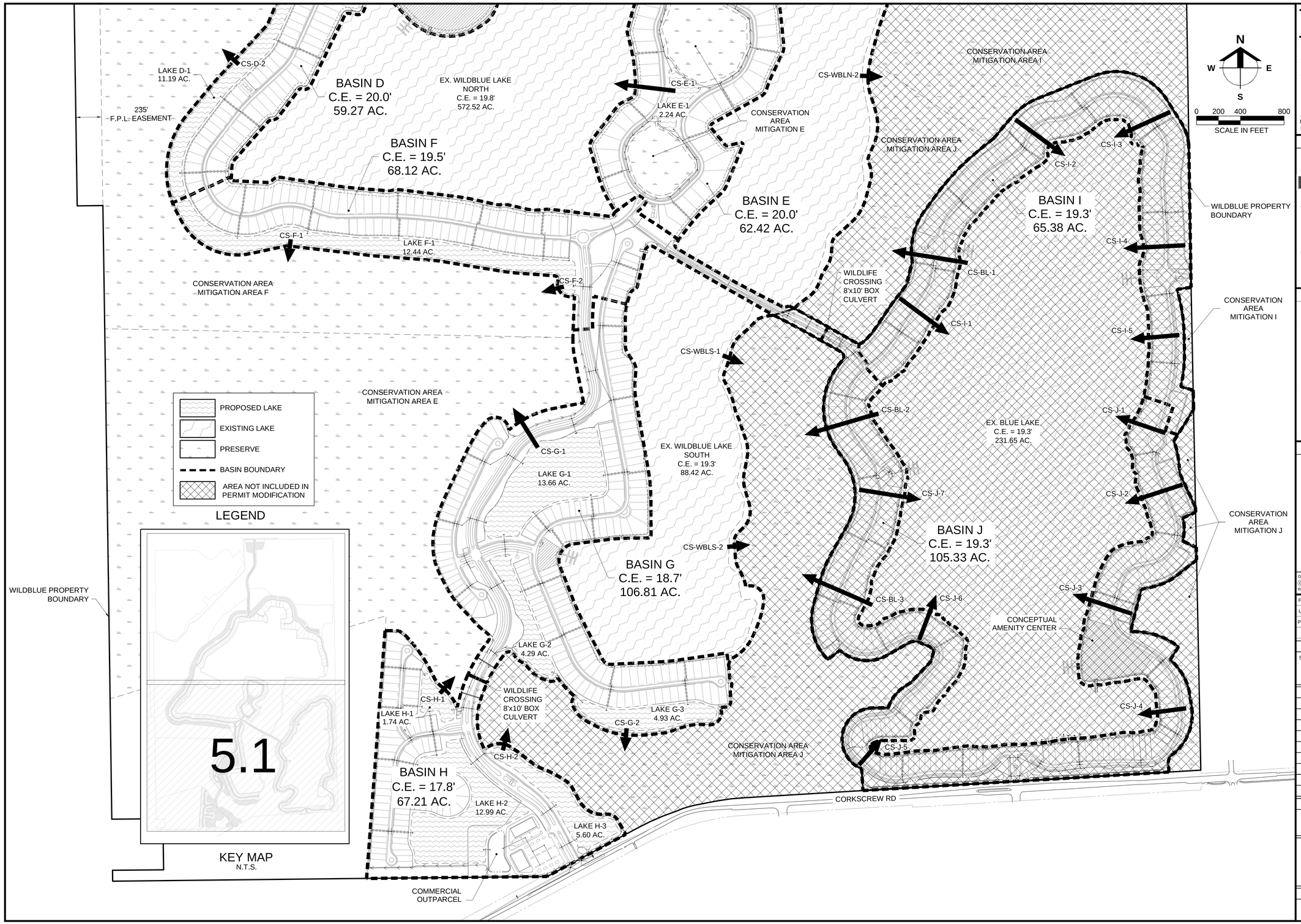
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

MASTER DRAINAGE PLAN A

PROJECT / FILE NO.	SHEET NUMBER
23473	5.0



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PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

MASTER DRAINAGE PLAN B

PROJECT / FILE NO.	SHEET NUMBER
23473	5.1

LAND USE SUMMARY

CONSTRUCTION & OPERATION

LAND USE	BASIN A (ACRES)	BASIN B (ACRES)	BASIN C (ACRES)	BASIN D (ACRES)	BASIN E (ACRES)	BASIN F (ACRES)	BASIN G (ACRES)	BASIN H (ACRES)	BASIN I (ACRES)	BASIN J (ACRES)	TOTAL (ACRES)
RESIDENTIAL TRACTS											
PAVEMENT	2.38	6.41	9.90	3.21	5.05	7.45	13.26	7.36	8.74	14.75	**78.51**
ROOF	0.00	14.21	20.69	7.55	10.97	12.74	21.05	9.07	21.34	24.90	**142.52**
OPEN SPACE	9.75	31.10	53.50	18.85	27.34	35.49	48.63	22.17	29.23	53.33	**329.39**
LAKE	7.27	12.88	16.58	11.19	2.24	12.44	22.88	20.33	0.00	0.00	**105.81**
DRY DETENTION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	6.07	6.55	**13.82**
PRESERVE AREA	0.00	0.00	0.00	0.00	16.82	0.00	0.00	0.00	0.00	0.00	**16.82**
TOTAL	19.40	64.60	100.67	40.80	62.42	68.12	105.82	60.13	65.38	99.53	**686.87**
COMMERCIAL TRACTS											
PAVEMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34	0.00	0.00	**3.34**
ROOF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	**0.92**
OPEN SPACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	**2.82**
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.08	0.00	0.00	**7.08**
TOTAL (C&O)	**19.40**	**64.60**	**100.67**	**40.80**	**62.42**	**68.12**	**105.82**	**67.21**	**65.38**	**99.53**	**693.95**

FUTURE DEVELOPMENT (CONCEPTUAL)

LAND USE	BASIN A (ACRES)	BASIN B (ACRES)	BASIN C (ACRES)	BASIN D (ACRES)	BASIN E(ACRES)	BASIN F (ACRES)	BASIN G (ACRES)	BASIN H (ACRES)	BASIN I (ACRES)	BASIN J (ACRES)	TOTAL (ACRES)
AMENITY TRACTS											
PAVEMENT (35%)	0.00	0.00	0.00	6.46	0.00	0.00	0.35	0.00	0.00	2.03	**8.84**
ROOF (10%)	0.00	0.00	0.00	1.85	0.00	0.00	0.10	0.00	0.00	0.58	**2.53**
OPEN SPACE (55%)	0.00	0.00	0.00	10.16	0.00	0.00	0.54	0.00	0.00	3.19	**13.89**
TOTAL	0.00	0.00	0.00	18.47	0.00	0.00	0.99	0.00	0.00	5.80	**25.26**
TOTAL (CONCEPTUAL)	**0.00**	**0.00**	**0.00**	**18.47**	**0.00**	**0.00**	**0.99**	**0.00**	**0.00**	**5.80**	**25.26**

TOTAL (PROJECT)	**19.40**	**64.60**	**100.67**	**59.27**	**62.42**	**68.12**	**106.81**	**67.21**	**65.38**	**105.33**	**719.21**

PRESERVE/UNDISTURBED AREAS (OUTSIDE WMS)	
WILDBLUE LAKE NORTH	572.52
WILDBLUE LAKE SOUTH	88.42
BLUE LAKE	231.65
FPL ESMNT & OPEN SPACE	36.15
CONSERVATION EASEMENT	1312.46
TOTAL	2241.20

TOTAL (PERMIT)	2960.41

HATCHED AREAS INDICATE BASINS WHICH ARE NOT PROPOSED TO BE MODIFIED AS PART OF THIS APPLICATION.

NOTES:

1. IN ACCORDANCE WITH THE SFWMD BASIS OF REVIEW, AT THE TIME OF PERMIT MODIFICATION REQUESTING CONSTRUCTION AND OPERATION APPROVAL, ALL COMMERCIAL AND/OR INDUSTRIAL USES WILL BE REQUIRED TO PROVIDE 0.5 INCHES OF DRY-PRETREATMENT PRIOR TO THEIR OUTFALL TO THE MASTER SURFACE WATER MANAGEMENT SYSTEM.

2. THE TOTAL (PERMIT) AREA ALL LANDS COVERED BY THIS ENVIRONMENTAL RESOURCE PERMIT AS DESCRIBED BY THE PROJECT BOUNDARY SURVEY AND DOES NOT INCLUDE OFFSITE PAVEMENT AREAS.
3. BASINS A AND H PROVIDE MITIGATING WATER QUALITY TREATMENT FOR PROPOSED OFF-SITE PAVEMENT IMPROVEMENTS TOTALING 0.61 ACRES AND 1.00 ACRES, RESPECTIVELY.

REQUIRED WATER QUALITY SUMMARY

BASIN NAME	BASIN AREA (ACRES)	WATER QUALITY REQUIRED (AC-FT)
BASIN A	19.4	2.62
BASIN B	64.6	8.02
BASIN C	100.67	12.58
BASIN D	59.27	7.59
BASIN E	62.42	5.68
BASIN F	68.12	8.41
BASIN G	106.81	13.35
BASIN H	67.21	8.71
WILDBLUE LAKE NORTH	579.16	-
WILDBLUE LAKE SOUTH	92.87	-
BLUE LAKE	402.36	50.37
TOTAL WATER QUALITY REQUIRED =		**117.33 AC-FT**

NOTES:

1. WATER QUALITY REQUIREMENTS FOR BASINS I AND J INCLUDED WITHIN BLUE LAKE AREA.
2. WATER QUALITY NOT REQUIRED FOR EXISTING LAKE AND BANK AREAS OF WILDBLUE LAKES NORTH AND SOUTH.
3. BASINS A, H, AND BLUE LAKE INCLUDED COMPENSATORY WATER QUALITY REQUIREMENTS FOR OFF-SITE PAVEMENT. (SEE COMPENSATORY WATER QUALITY SUMMARY)

COMPENSATORY WATER QUALITY SUMMARY

BASIN NAME	OFF-SITE PAVEMENT	COMPENSATORY WQ REQUIRED (AC-FT)
BASIN A	0.61	0.13
BASIN H	1.00	0.21
BLUE LAKE	0.23	0.05
TOTAL WATER QUALITY REQUIRED =		**0.38 AC-FT**

PEAK ALLOWABLE DISCHARGE SUMMARY

BASIN NAME	BASIN AREA (ACRES)	ALLOWABLE DISCHARGE RATE (CFS/ACRE)	TOTAL ALLOWABLE DISCHARGE (CFS)
BASIN A	19.4	0.066	1.27
BASIN B	64.6	0.066	4.24
BASIN C	100.67	0.066	6.61
BASIN D	59.27	0.066	3.89
BASIN E	62.42	0.066	4.10
BASIN F	68.12	0.066	4.47
BASIN G	106.81	0.066	7.01
BASIN H	67.21	0.066	4.41
BASIN I	65.38	0.066	4.29
BASIN J	105.33	0.066	6.91
WILDBLUE LAKE NORTH	579.16	0.066	38.01
WILDBLUE LAKE SOUTH	92.87	0.066	6.09
BLUE LAKE	231.65	0.066	15.20
		TOTAL PEAK ALLOWABLE DISCHARGE =	**106.50 CFS**

PROVIDED WATER QUALITY SUMMARY

BASIN NAME	WATER QUALITY PROVIDED (AC-FT)
BASIN A	2.88
BASIN B	9.35
BASIN C	13.61
BASIN D	8.23
BASIN E	5.70
BASIN F	9.01
BASIN G	13.89
BASIN H	10.27
BLUE LAKE	68.15
TOTAL WATER QUALITY PROVIDED =	**141.09 AC-FT**

PEAK MODELED DISCHARGE SUMMARY

CONTROL STRUCTURE	PEAK DISCHARGE (CFS)
CS-A-1	1.33
CS-B-1 & CS-B-2	4.24
CS-C-1 & CS-C-2	6.47
CS-D-1 & CS-D-2	3.82
CS-F-1- & CS-F-2	4.38
CS-G-1 & CS-G-2	6.98
CS-H-1 & CS-H-2	4.42
CS-WBLN-1 & CS-WBLN-2	41.89
CS-WBLS-1 & CS-WBLS-2	6.04
CS-BL-1, CS-BL-2, & CS-BL-3	26.66
TOTAL PEAK DISCHARGE =	**106.23 CFS**

WATER MANAGEMENT SUMMARY

WATER MANAGEMENT CRITERIA	BASIN A	BASIN B	BASIN C	BASIN D	BASIN E	BASIN F	BASIN G	BASIN H	BASIN I	BASIN J	WILDBLUE LAKE NORTH	WILDBLUE LAKE SOUTH	BLUE LAKE
5-YR, 1-DAY RAINFALL DEPTH	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in	5.5 in
25-YR, 3-DAY RAINFALL DEPTH	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in	10.8 in
100-YR, 3-DAY RAINFALL DEPTH	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in	13.5 in
CONTROL ELEVATION	**22.50' NAVD**	**21.00' NAVD**	**21.80' NAVD**	**20.00' NAVD**	**20.00' NAVD**	**19.50' NAVD**	**18.70' NAVD**	**17.80' NAVD**	**19.30' NAVD**	**19.30' NAVD**	**19.80' NAVD**	**19.30' NAVD**	**19.30' NAVD**
PEAK 5-YR, 1-DAY STORM STAGE	23.10' NAVD	21.84' NAVD	23.02' NAVD	20.86' NAVD	20.61' NAVD	20.35' NAVD	19.76' NAVD	18.69' NAVD	20.98' NAVD	21.26' NAVD	20.24' NAVD	19.74' NAVD	19.84' NAVD
PEAK 25-YR, 3-DAY STORM STAGE	24.66' NAVD	22.91' NAVD	25.36' NAVD	21.97' NAVD	22.06' NAVD	21.88' NAVD	22.04' NAVD	20.64' NAVD	21.28' NAVD	21.51' NAVD	21.16' NAVD	20.36' NAVD	20.98' NAVD
PEAK 100-YR, 3-DAY (zero-discharge) STAGE	24.75' NAVD	24.33' NAVD	25.41' NAVD	23.21' NAVD	22.92' NAVD	22.93' NAVD	22.12' NAVD	20.64' NAVD	23.56' NAVD	23.52' NAVD	20.93' NAVD	20.45' NAVD	21.02' NAVD
MINIMUM CALCULATED PAVEMENT ELEVATION	24.5' NAVD	23.0' NAVD	23.8' NAVD	22.0' NAVD	22.0' NAVD	21.5' NAVD	20.7' NAVD	19.8' NAVD	21.3' NAVD	21.3' NAVD	-	-	-
MINIMUM PROPOSED PAVEMENT ELEVATION	**25.0' NAVD**	**23.5' NAVD**	**24.3' NAVD**	**22.5' NAVD**	**22.5' NAVD**	**22.0' NAVD**	**21.2' NAVD**	**20.3' NAVD**	**21.8' NAVD**	**21.8' NAVD**	**-**	**-**	**-**
MINIMUM CALCULATED PERIMETER BERM ELEVATION	24.7' NAVD	23.0' NAVD	25.4' NAVD	22.0' NAVD	22.1' NAVD	21.9' NAVD	22.1' NAVD	20.7' NAVD	21.3' NAVD	21.6' NAVD	21.2' NAVD	20.4' NAVD	21.0' NAVD
MINIMUM PROPOSED PERIMETER BERM ELEVATION	**24.8' NAVD**	**23.0' NAVD**	**25.5' NAVD**	**22.0' NAVD**	**22.1' NAVD**	**21.9' NAVD**	**22.1' NAVD**	**20.8' NAVD**	**21.3' NAVD**	**21.6' NAVD**	**21.2' NAVD**	**20.5' NAVD**	**22.0' NAVD**
MINIMUM CALCULATED FINISHED FLOOR ELEVATION	24.8' NAVD	24.4' NAVD	25.5' NAVD	23.3' NAVD	23.0' NAVD	23.0' NAVD	22.2' NAVD	20.7' NAVD	23.6' NAVD	23.6' NAVD	-	-	-
MINIMUM PROPOSED FINISHED FLOOR ELEVATION	**26.5' NAVD**	**25.0' NAVD**	**25.8' NAVD**	**24.0' NAVD**	**24.0' NAVD**	**23.5' NAVD**	**22.7' NAVD**	**21.8' NAVD**	**23.3' NAVD**	**23.3' NAVD**	**-**	**-**	**-**
Last Updated 6/28/2018													

GENERAL DRAINAGE NOTES:

1. THE LENGTH OF STORM DRAIN PIPES SHOWN ON PLANS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM THE INSIDE FACE OF STRUCTURE.
2. LOCATIONS OF DRAINAGE STRUCTURES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES, ETC. AS REQUIRED TO MATCH PROPOSED GRADES.
4. ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE. WATERING WILL BE REQUIRED TO OBTAIN STABILIZATION / GROWTH AND TO PROVIDE DUST CONTROL.
5. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
6. SWALE PROFILES SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY.
7. SOD A 24" STRIP BEHIND ALL CONCRETE CURB AND VALLEY GUTTER AND AT EDGE OF PAVEMENT. REMAINING AREAS WITHIN THE DISTURBED AREA SHALL BE SEEDED, FERTILIZED AND MULCHED.
8. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
9. THE TOP OF ALL ENDWALLS SHALL BE NO HIGHER THAN 30" BELOW THE LAKE CONTROL ELEVATION. THE CONTRACTOR SHALL REVIEW PROPOSED STRUCTURE LOCATIONS WITH THE ENGINEER AFTER STAKEOUT AND BEFORE COMMENCING CONSTRUCTION. ALL DRAINAGE STRUCTURES TO BE LOCATED ON THE LAKE BANK SHALL BE FIELD ADJUSTED SO AS TO INSET THE STRUCTURE, TO THE GREATEST EXTENT POSSIBLE, IN THE LAKE BANK.
10. YARD DRAINS SHALL BE ADDED IN GREEN AND OPEN SPACE AREAS AS NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER.
11. ALL REAR YARD DRAINAGE TO BE CONSIDERED SECONDARY DRAINAGE, UNLESS OTHERWISE INSTRUCTED BY OWNER.
12. MASTER PROPERTY OWNER'S ASSOCIATION SHALL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF STORM WATER MANAGEMENT SYSTEM.

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WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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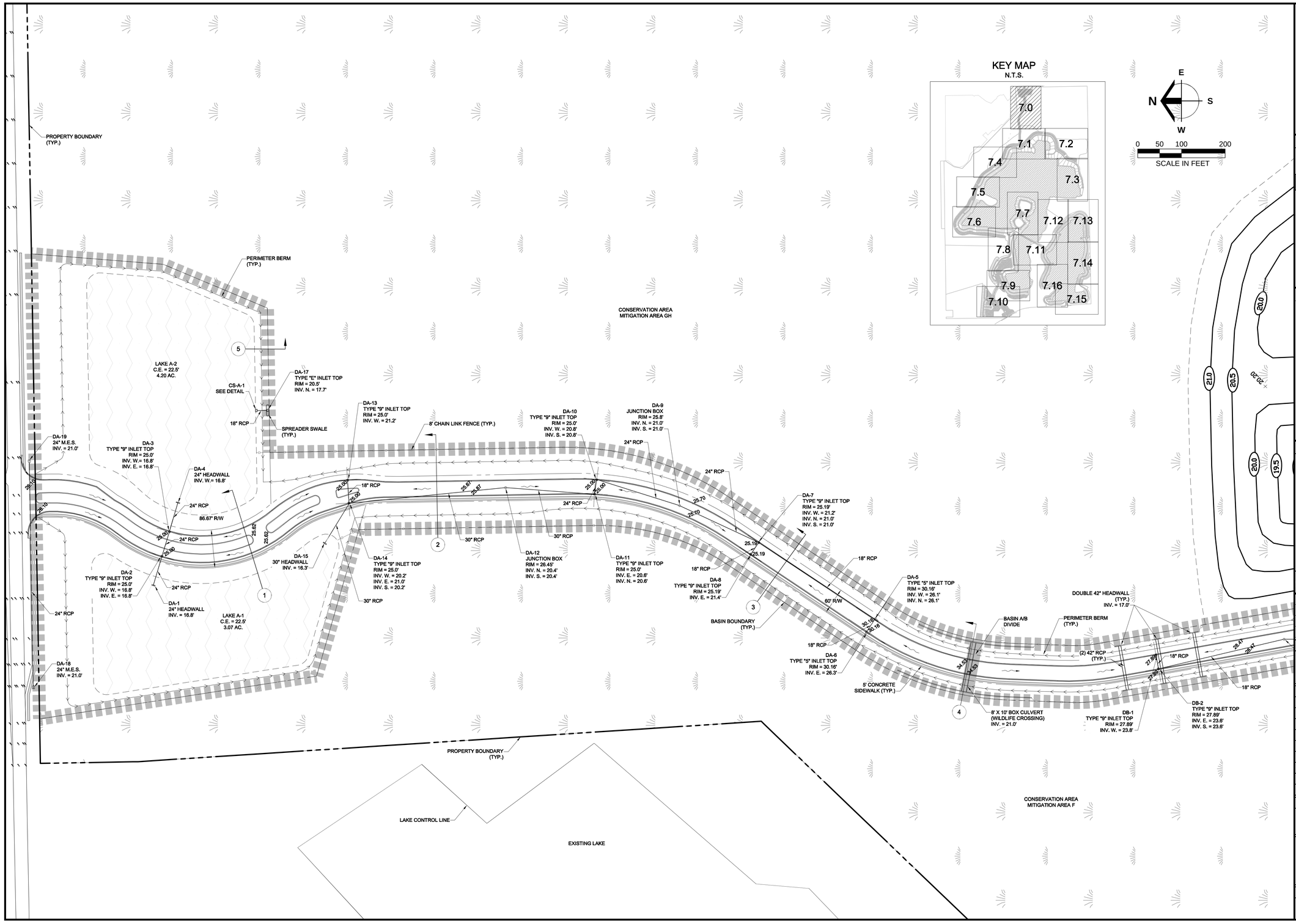
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

GENERAL NOTES AND TABLES

PROJECT / FILE NO.	SHEET NUMBER
23473	6.0



KEY MAP
N.T.S.

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PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.0

KEY MAP
N.T.S.

7.0 7.1 7.2 7.4 7.3 7.5 7.7 7.12 7.13 7.6 7.8 7.11 7.14 7.9 7.16 7.10 7.15

CONSERVATION AREA MITIGATION AREA F

MITIGATION AREA GH WETLAND CREATION AREA

MITIGATION AREA AB WETLAND CREATION AREA

DB-3 JUNCTION BOX RIM = 27.88' INV. N. = 23.4' INV. S. = 23.4'

DB-4 TYPE "S" INLET TOP RIM = 25.91' INV. W. = 22.1'

DB-5 TYPE "S" INLET TOP RIM = 25.91' INV. N. = 22.1' INV. E. = 22.0' INV. S. = 21.6'

DB-6 TYPE "S" INLET TOP RIM = 23.5' INV. W. = 19.7'

DB-7 TYPE "S" INLET TOP RIM = 23.5' INV. N. = 19.2' INV. E. = 19.5' INV. S. = 18.7'

DB-8 JUNCTION BOX RIM = 24.67' INV. N. = 18.5' INV. S. = 18.5'

DB-9 TYPE "S" INLET TOP RIM = 23.5' INV. W. = 18.5'

DB-10 TYPE "S" INLET TOP RIM = 23.5' INV. N. = 18.3' INV. E. = 18.3' INV. W. = 15.7'

DB-11 36" HEADWALL INV. = 14.8'

DB-13 TYPE "E" INLET TOP RIM = 20.0' INV. S. = 17.0'

DB-14 TYPE "H" INLET TOP RIM = 21.0' INV. E. = 15.0'

DB-14 TYPE "H" INLET TOP RIM = 21.0' INV. E. = 15.0'

DB-16 TYPE "C" INLET TOP RIM = 22.5' INV. N. = 19.2'

DB-17 VALLEY GUTTER INLET RIM = 23.5' INV. N. = 16.7' INV. S. = 16.7'

DB-18 VALLEY GUTTER INLET RIM = 23.5' INV. N. = 15.7' INV. S. = 16.7'

DB-18A JUNCTION BOX RIM = 23.7' INV. N. = 15.7' INV. S. = 15.7'

DB-19 30" HEADWALL INV. = 15.3'

DB-20 TYPE "C" INLET TOP RIM = 22.5' INV. W. = 19.5'

DB-21 VALLEY GUTTER INLET RIM = 23.5' INV. W. = 16.7' INV. E. = 16.7'

DB-22 VALLEY GUTTER INLET RIM = 23.5' INV. W. = 16.5' INV. E. = 16.5'

DB-23 30" HEADWALL INV. = 15.3'

DB-42 42" HEADWALL INV. = 14.8'

DC-1 TYPE "C" INLET TOP RIM = 23.3' INV. N. = 20.0'

DC-2 VALLEY GUTTER INLET RIM = 24.3' INV. N. = 17.5' INV. S. = 17.5'

DC-3 VALLEY GUTTER INLET RIM = 24.3' INV. S. = 17.3' INV. N. = 17.3'

DC-4 30" HEADWALL INV. = 16.1'

DC-5 VALLEY GUTTER INLET RIM = 24.3' INV. W. = 18.0'

DC-6 VALLEY GUTTER INLET RIM = 24.3' INV. E. = 18.0' INV. N. = 18.0'

DC-7 24" HEADWALL INV. = 16.6'

DC-8 TYPE "C" INLET TOP RIM = 23.3' INV. N. = 20.0'

DC-9 VALLEY GUTTER INLET RIM = 24.3' INV. N. = 17.5' INV. S. = 17.5'

DC-10 VALLEY GUTTER INLET RIM = 24.3' INV. S. = 17.3' INV. N. = 17.3'

DC-11 30" HEADWALL INV. = 16.1'

DC-12 TYPE "C" INLET TOP RIM = 23.3' INV. N. = 20.0'

DC-13 VALLEY GUTTER INLET RIM = 24.3' INV. N. = 17.5' INV. S. = 17.5'

DC-14 VALLEY GUTTER INLET RIM = 24.3' INV. N. = 17.3' INV. S. = 17.3'

DC-15 30" HEADWALL INV. = 16.1'

DC-50 24" HEADWALL INV. = 16.6'

DC-51 24" HEADWALL INV. = 16.6'

D-1 36" HEADWALL INV. = 14.0'

LAKE B-1 C.E. = 21.0' 12.88 AC.

LAKE C-1 C.E. = 21.8' 5.32 AC.

LAKE C-2 C.E. = 21.8' 8.39 AC.

EX. WILDBLUE LAKE NORTH C.E. = 19.8'

CS-8-1 SEE DETAIL

CS-8-3 SEE DETAIL

CS-C-1 SEE DETAIL

CS-FSN SEE DETAIL

SPREADER SWALE (TYP.)

PERIMETER BERM (TYP.)

BASIN BOUNDARY (TYP.)

BASIN B/C DIVIDE

LOT LINE (TYP.)

REAR YARD BERM (TYP.)

YEAR YARD DRAINAGE (TYP.)

REAR LOT LINE / LAKE TRACT BOUNDARY (TYP.)

APPROX. EXIST. LAKE CONTROL LINE

60' R/W

47' R/W

8' CHAIN LINK FENCE (TYP.)

N W E S

0 50 100 200
SCALE IN FEET

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FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT BY	TIM GAVIN

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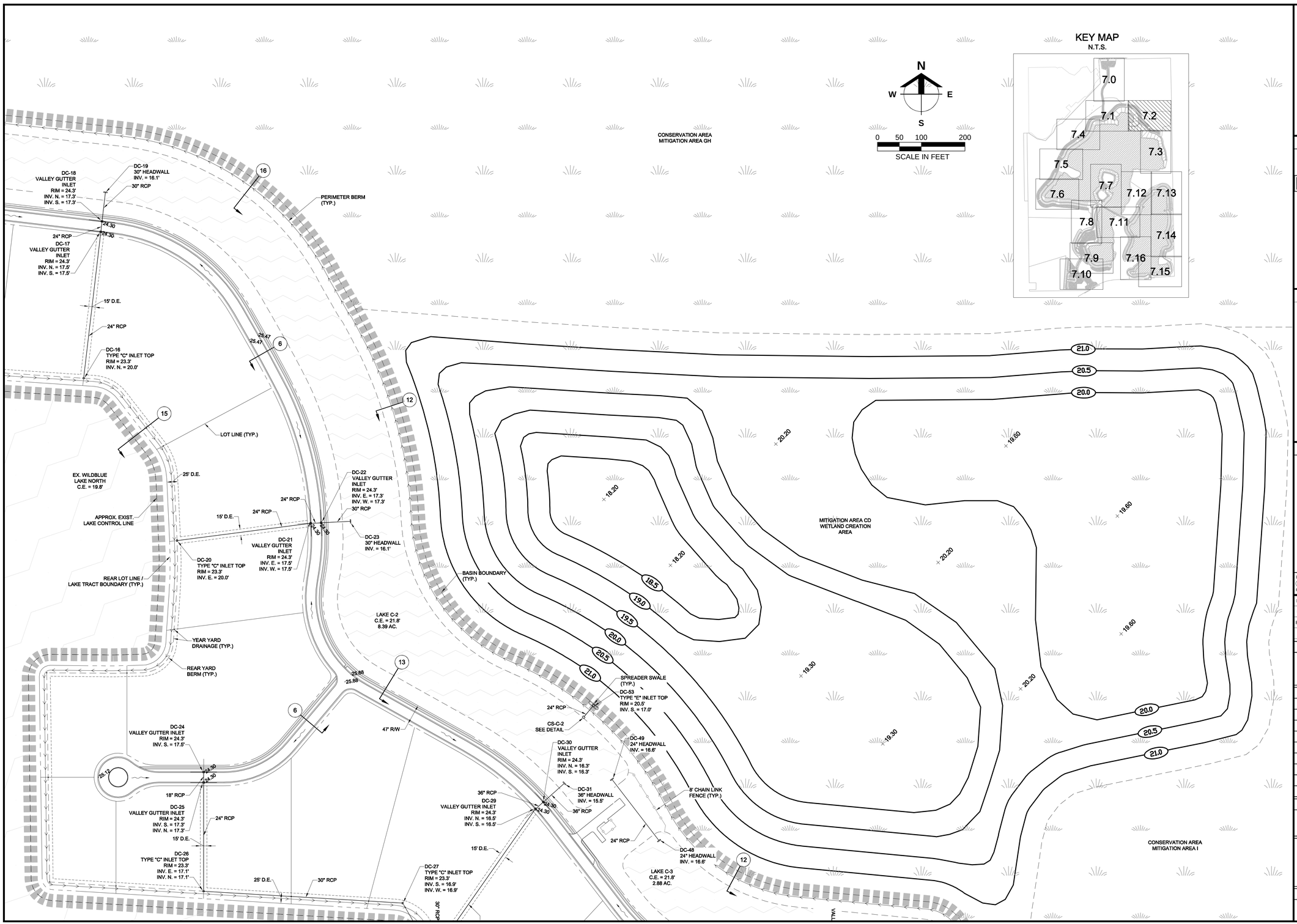
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.1



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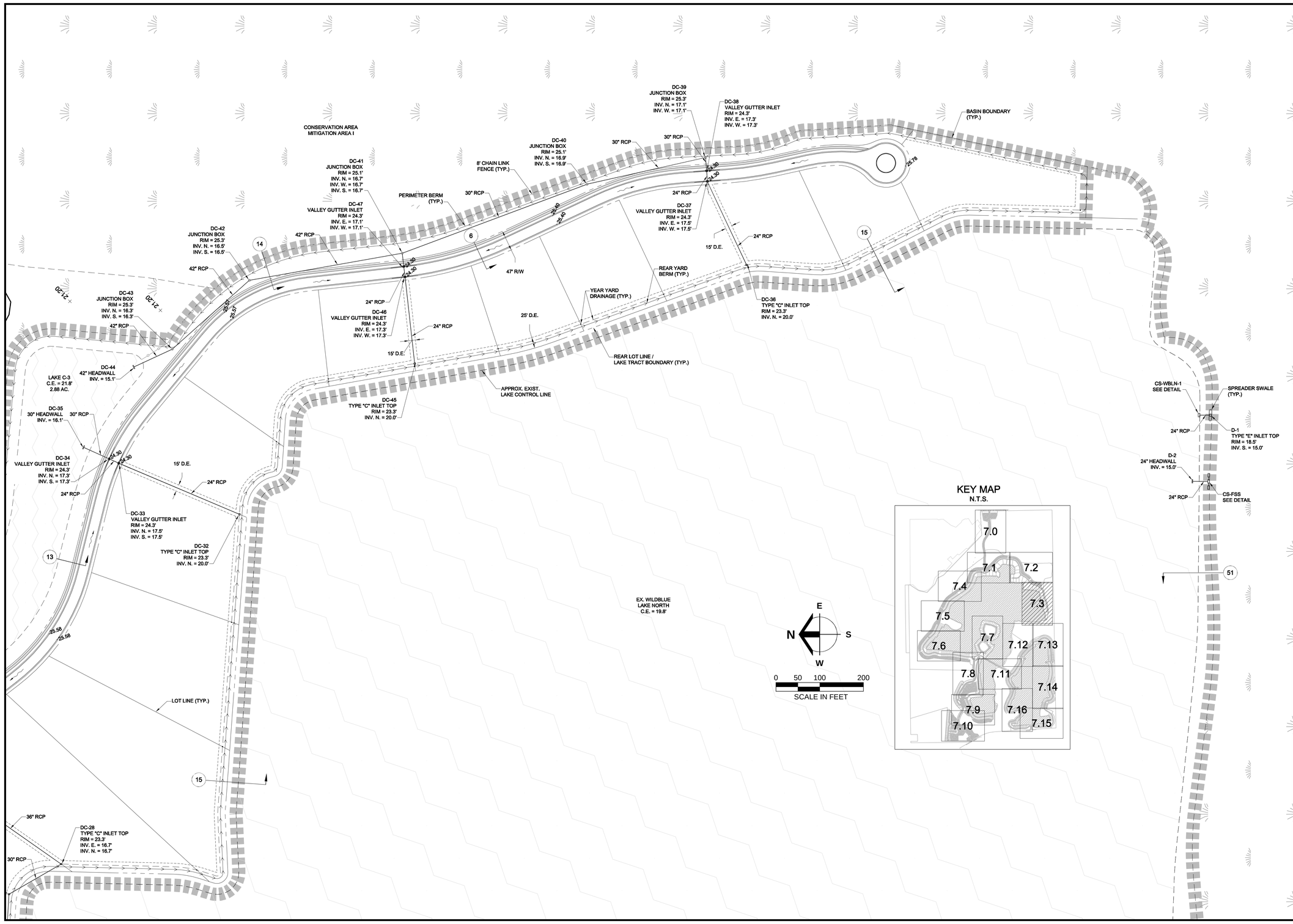
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.2



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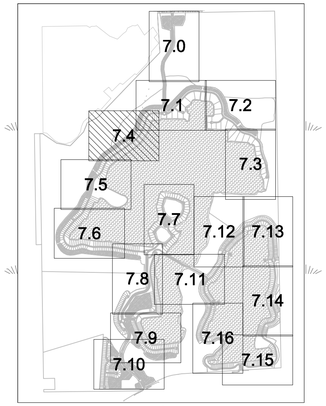
PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.3

KEY MAP
N.T.S.



N
W E
S

0 50 100 200
SCALE IN FEET

CONSERVATION AREA
MITIGATION AREA F

MITIGATION AREA AB
WETLAND CREATION
AREA

LAKE B-1
C.E. = 21.0'
12.88 AC.

BASIN BOUNDARY
(TYP.)

PERIMETER BERM
(TYP.)

SPREADER SWALE
(TYP.)

LOT LINE
(TYP.)

REAR LOT LINE /
LAKE TRACT BOUNDARY (TYP.)

APPROX. EXIST.
LAKE CONTROL LINE

EX. WILDBLUE
LAKE NORTH
C.E. = 19.8'

REAR YARD
BERM (TYP.)

YEAR YARD
DRAINAGE (TYP.)

47' R/W

DB-18A
JUNCTION BOX
RIM = 23.7'
INV. N. = 15.7'
INV. S. = 15.7'

DB-18
VALLEY GUTTER INLET
RIM = 23.5'
INV. N. = 15.7'
INV. S. = 16.7'

DB-17
VALLEY GUTTER INLET
RIM = 23.5'
INV. N. = 16.7'
INV. S. = 16.7'

DB-16
TYPE "C" INLET TOP
RIM = 22.5'
INV. N. = 19.2'

DB-23
30" HEADWALL
INV. = 15.3'

DB-22
VALLEY GUTTER INLET
RIM = 23.5'
INV. W. = 16.5'
INV. E. = 16.5'

DB-21
VALLEY GUTTER INLET
RIM = 23.5'
INV. W. = 16.7'
INV. E. = 16.7'

DB-20
TYPE "C" INLET TOP
RIM = 22.5'
INV. W. = 19.5'

DB-45
TYPE "E" INLET TOP
RIM = 20.0'
INV. S. = 17.0'

DB-27
30" HEADWALL
INV. = 15.3'

DB-26
VALLEY GUTTER INLET
RIM = 23.5'
INV. NW. = 16.5'
INV. SE. = 16.5'

DB-25
VALLEY GUTTER
INLET
RIM = 23.5'
INV. NW. = 16.7'
INV. SE. = 16.7'

DB-24
TYPE "C" INLET TOP
RIM = 22.5'
INV. NW. = 19.5'

DB-31
30" HEADWALL
INV. = 15.3'

DB-30
VALLEY GUTTER INLET
RIM = 23.5'
INV. NW. = 16.5'
INV. SE. = 16.5'

DB-29
VALLEY GUTTER INLET
RIM = 23.5'
INV. NW. = 16.7'
INV. SE. = 16.7'

DB-36
30" HEADWALL
INV. = 15.3'

DB-34
VALLEY GUTTER INLET
RIM = 23.5'
INV. NW. = 16.5'
INV. SE. = 16.5'

DB-33
VALLEY GUTTER INLET
RIM = 23.5'
INV. NW. = 16.7'
INV. SE. = 16.7'

DB-28
TYPE "C" INLET TOP
RIM = 22.5'
INV. NW. = 19.5'

30" RCP
24" RCP
15' D.E.
29' D.E.
CS-B-2
SEE DETAIL
23.50
24.46
24.51
24.52

+ 19.20
+ 19.80
+ 18.70

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PROJECT DESCRIPTION

WildBlue

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PLAN REVISIONS

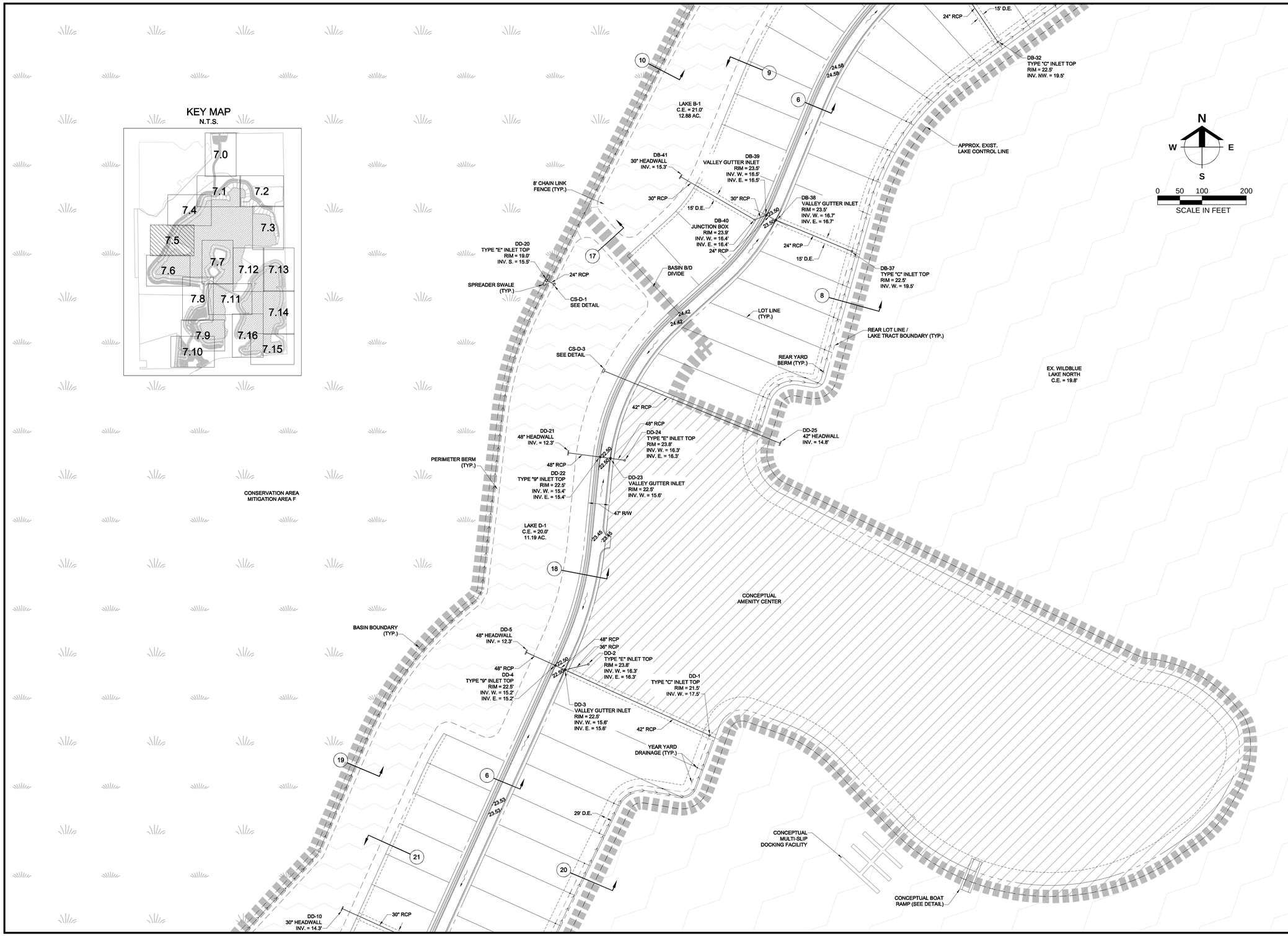
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PROJECT / FILE NO.	SHEET NUMBER
23473	7.4

KEY MAP
N.T.S.



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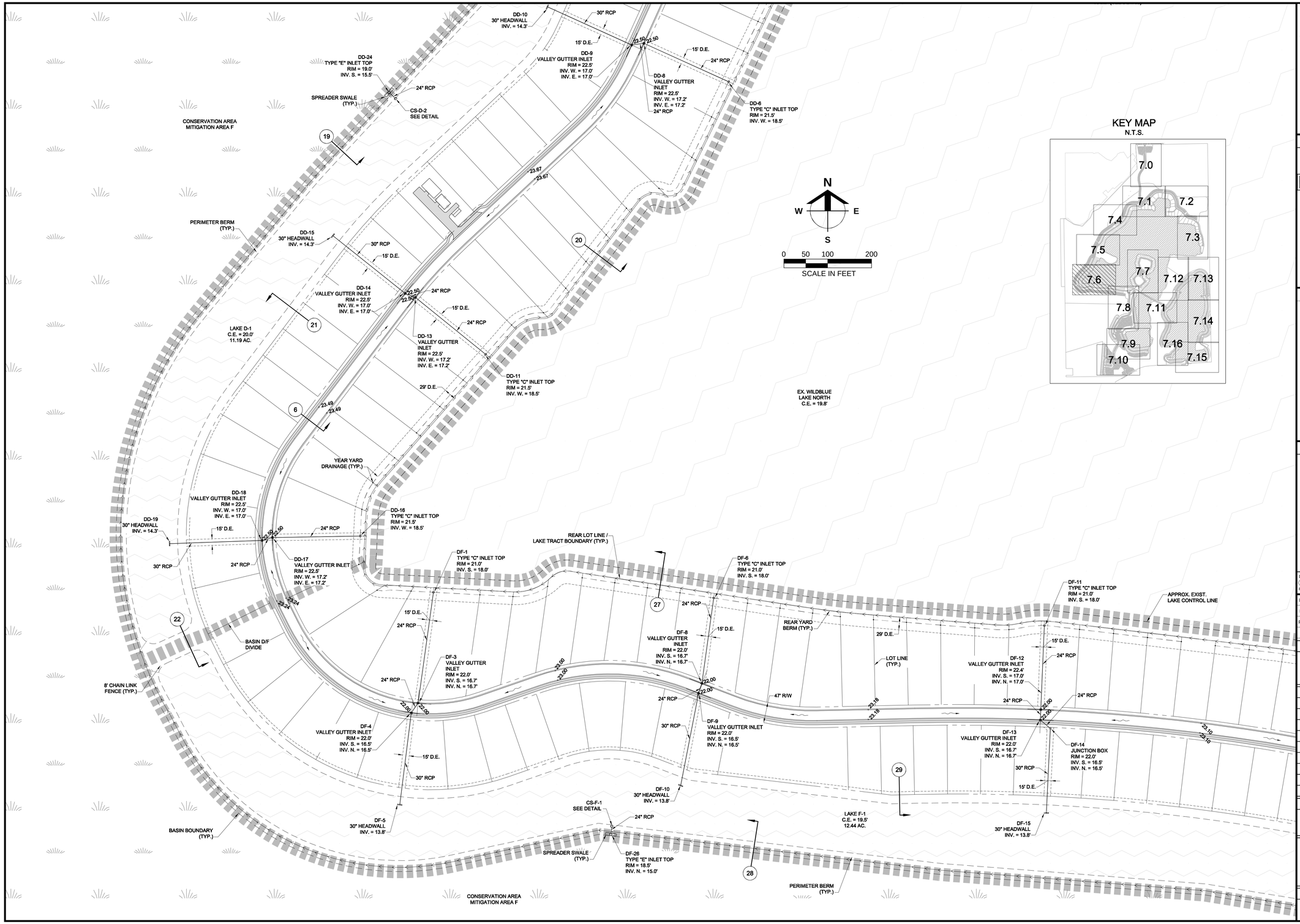
PLAN REVISIONS

PLAN STATUS

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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.5



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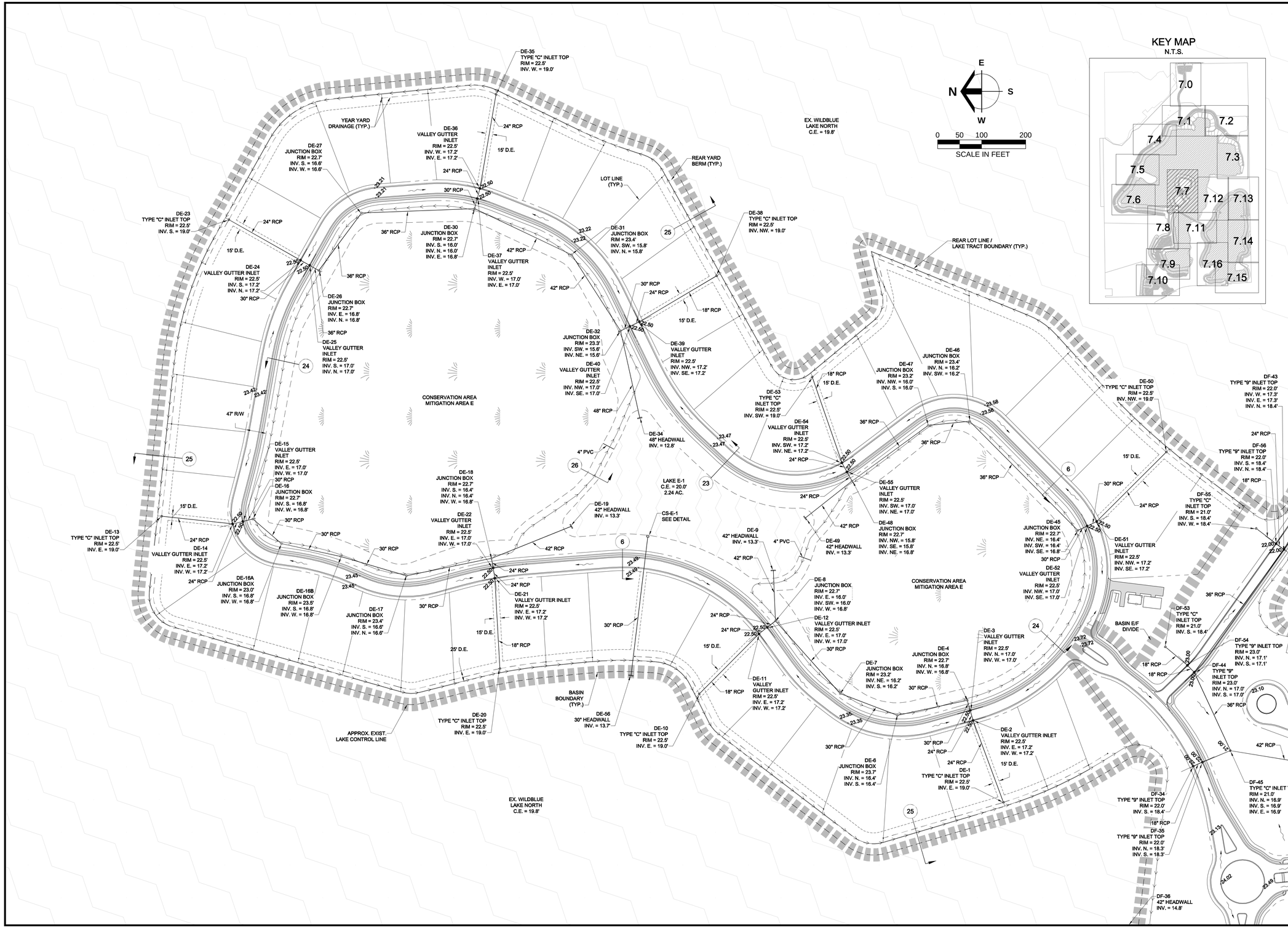
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.6



KEY MAP
N.T.S.

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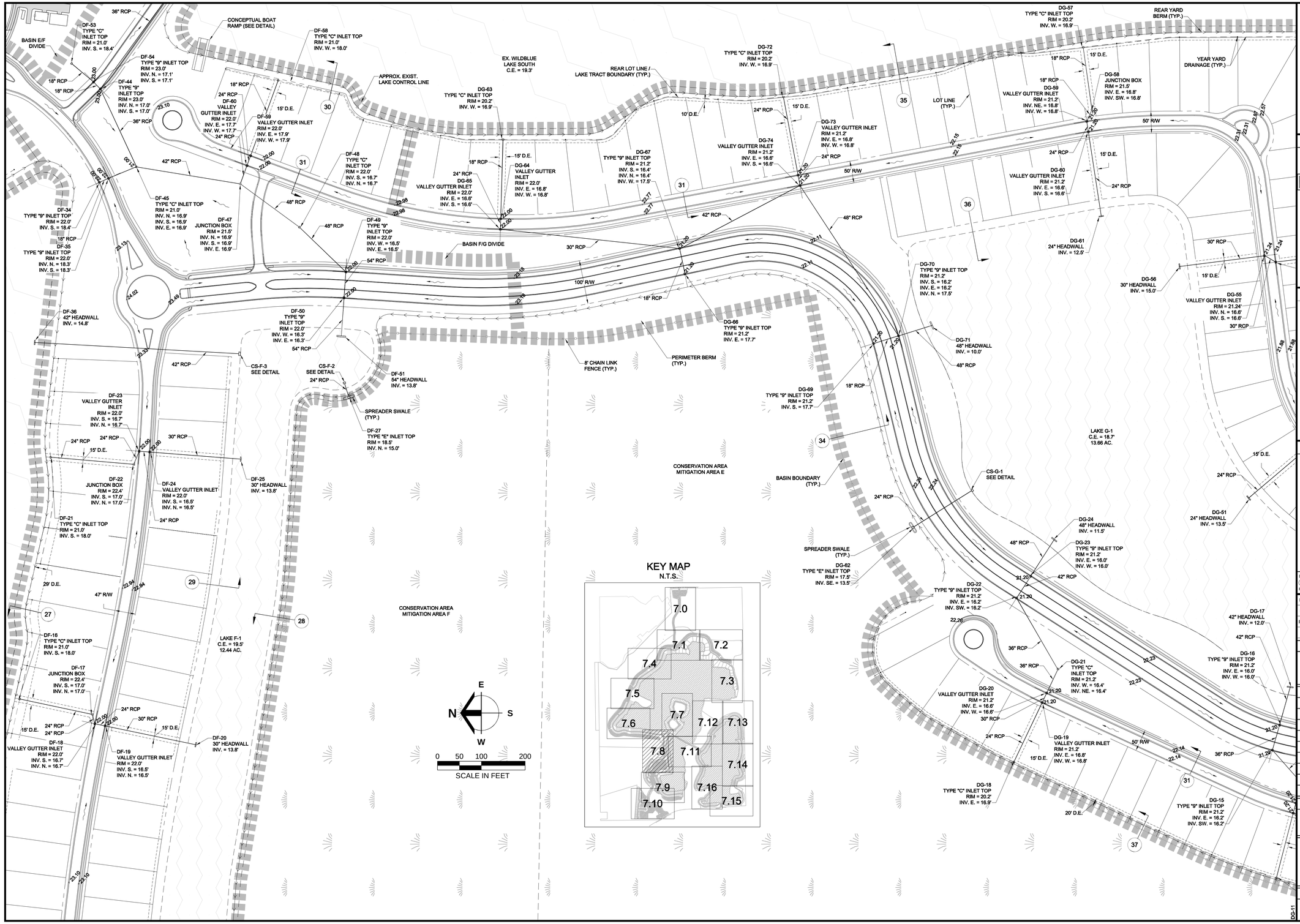
PLAN REVISIONS

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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.7



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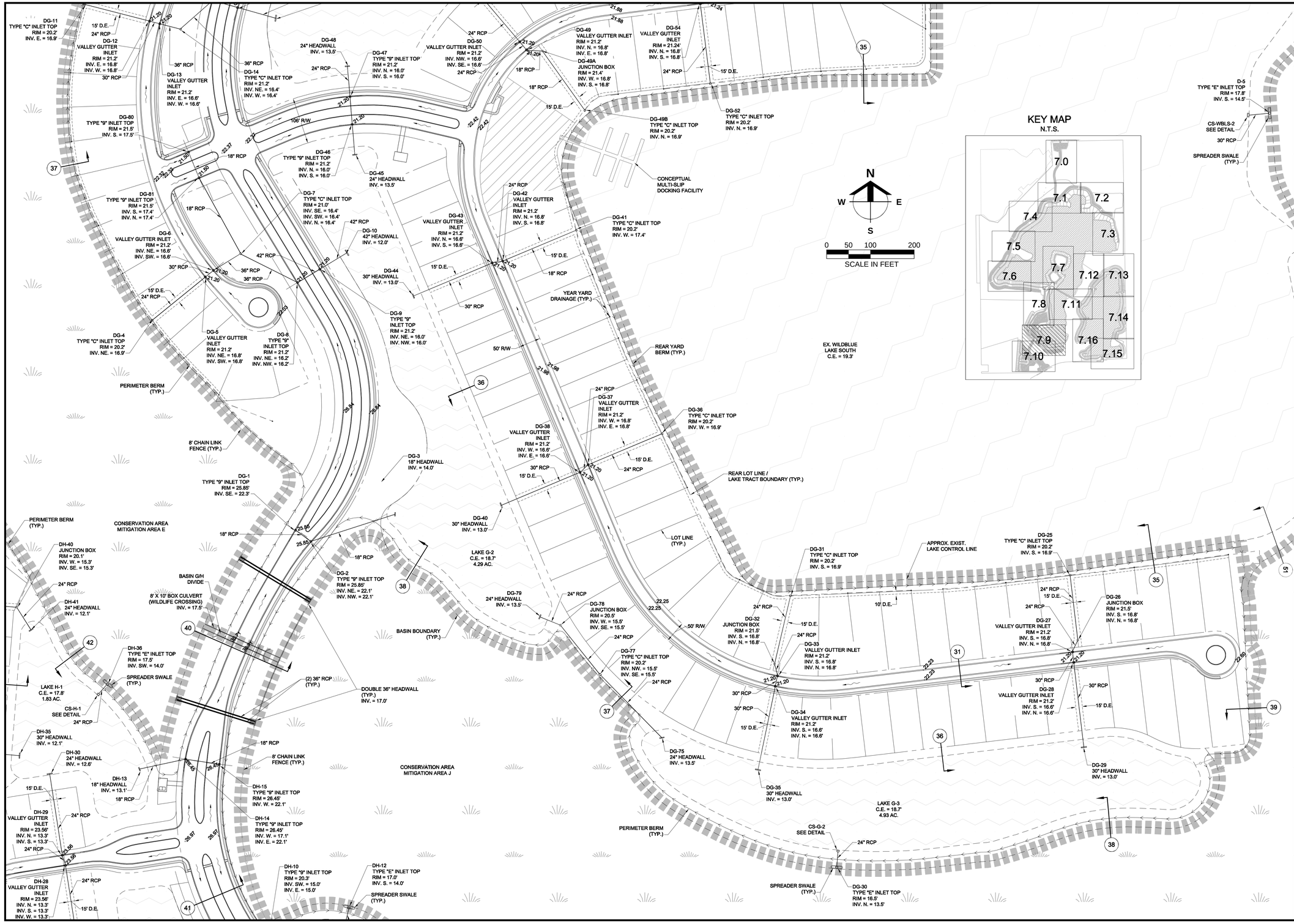
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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

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23473	7.8

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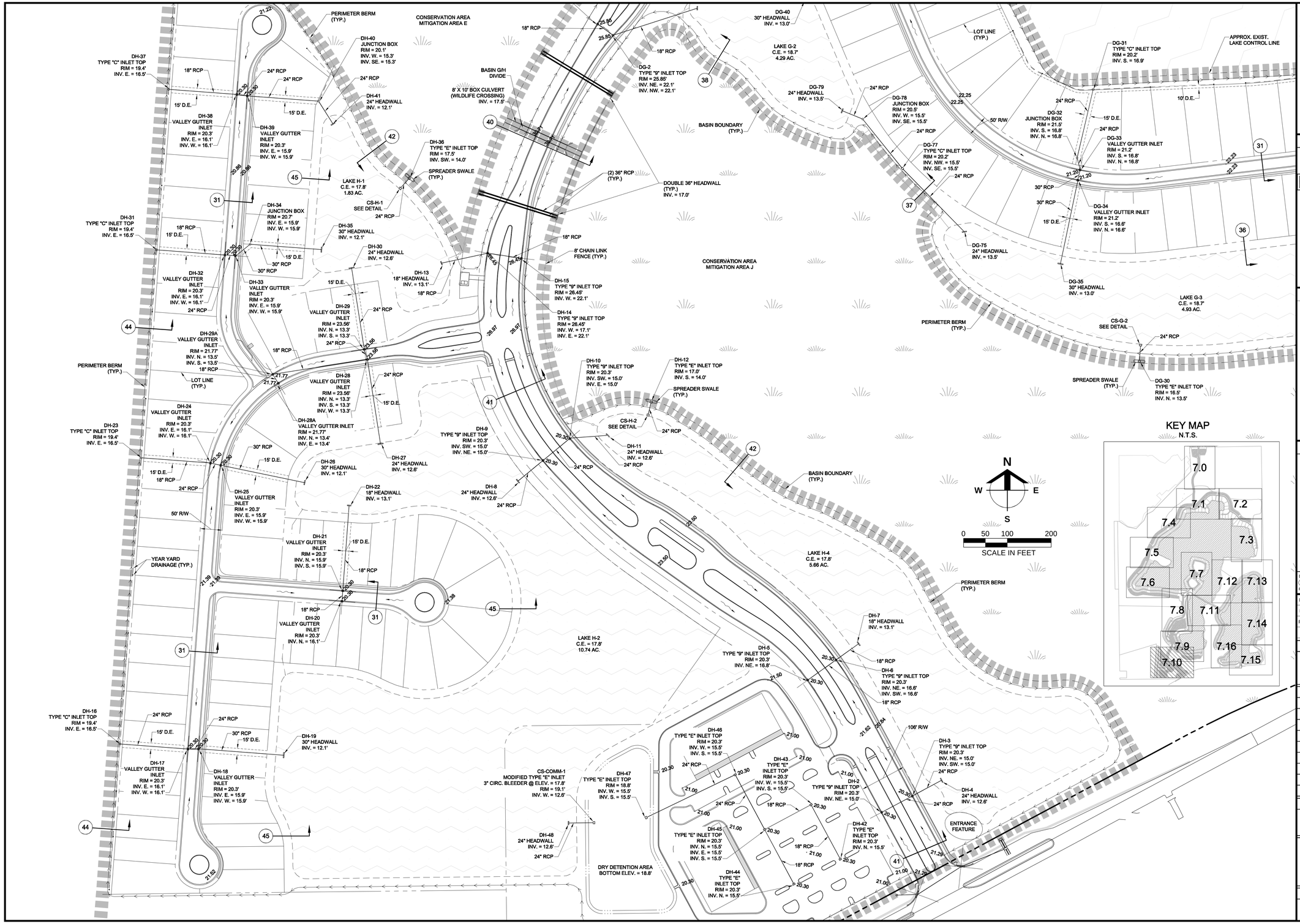
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PROJECT / FILE NO.	SHEET NUMBER
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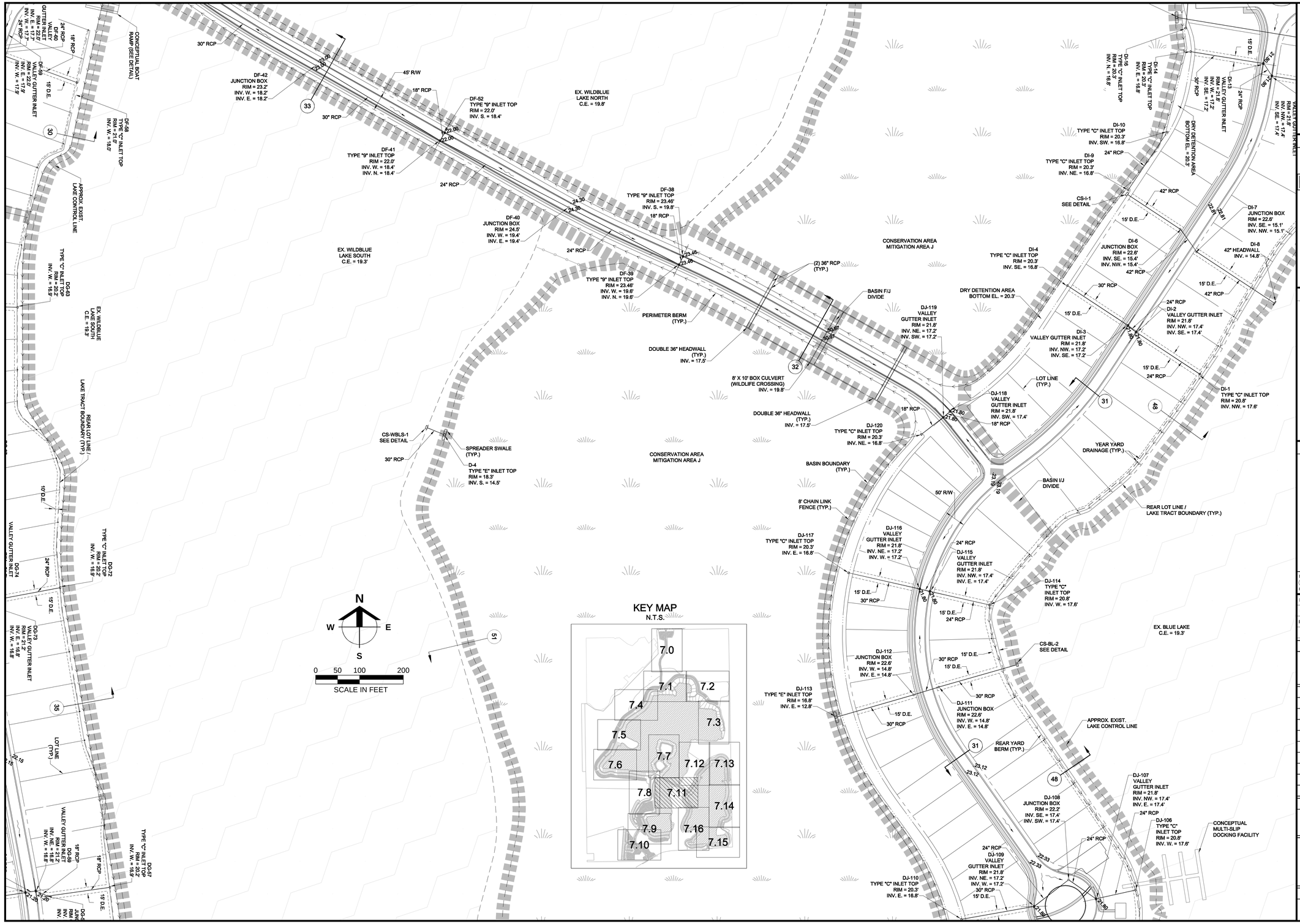
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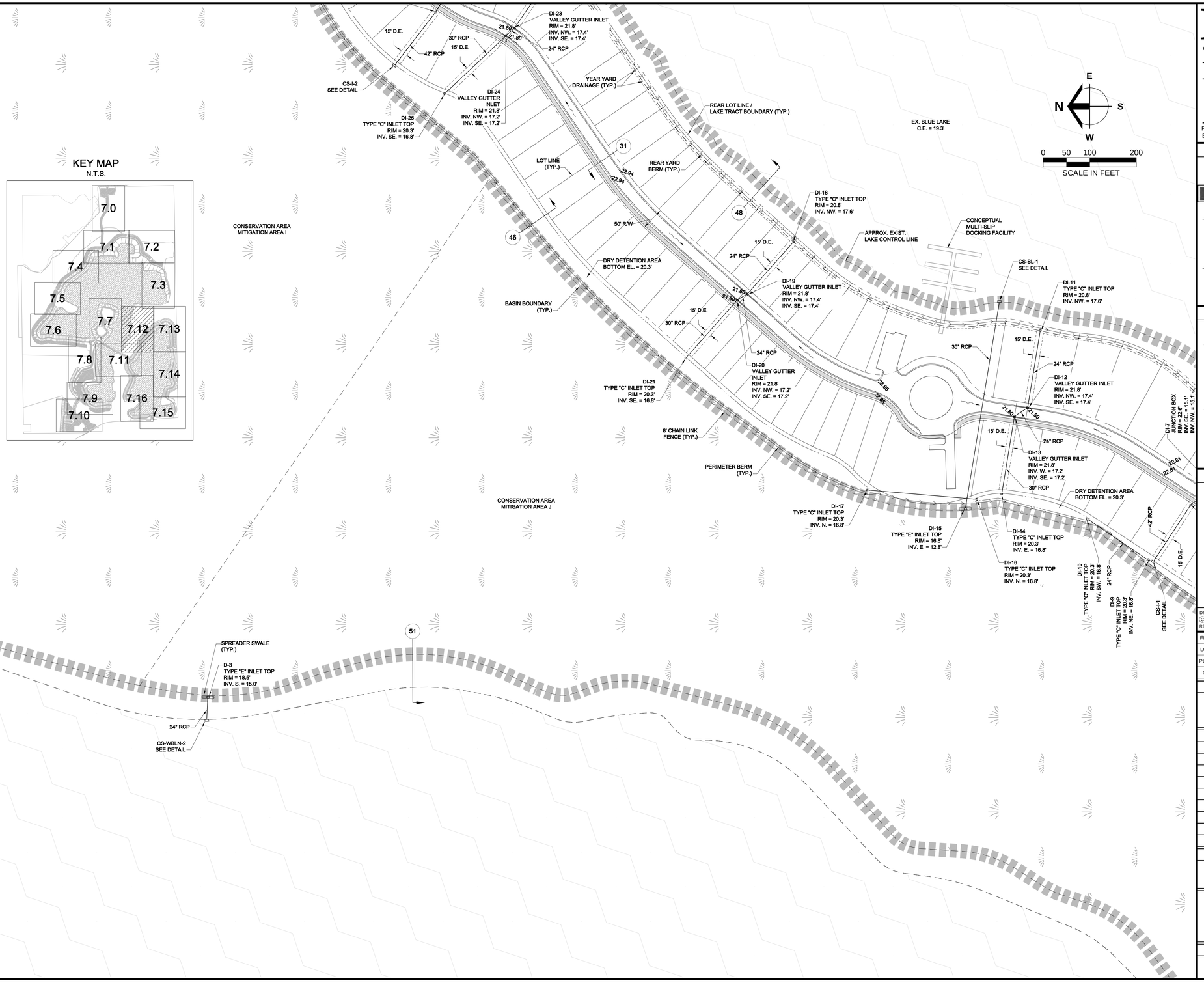
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FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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LOCATION	J:\23473\DWG\ERP\
PLOT DATE	TUE, 8-21-2018 - 10:52 AM
PLOT BY	TIM GAVIN

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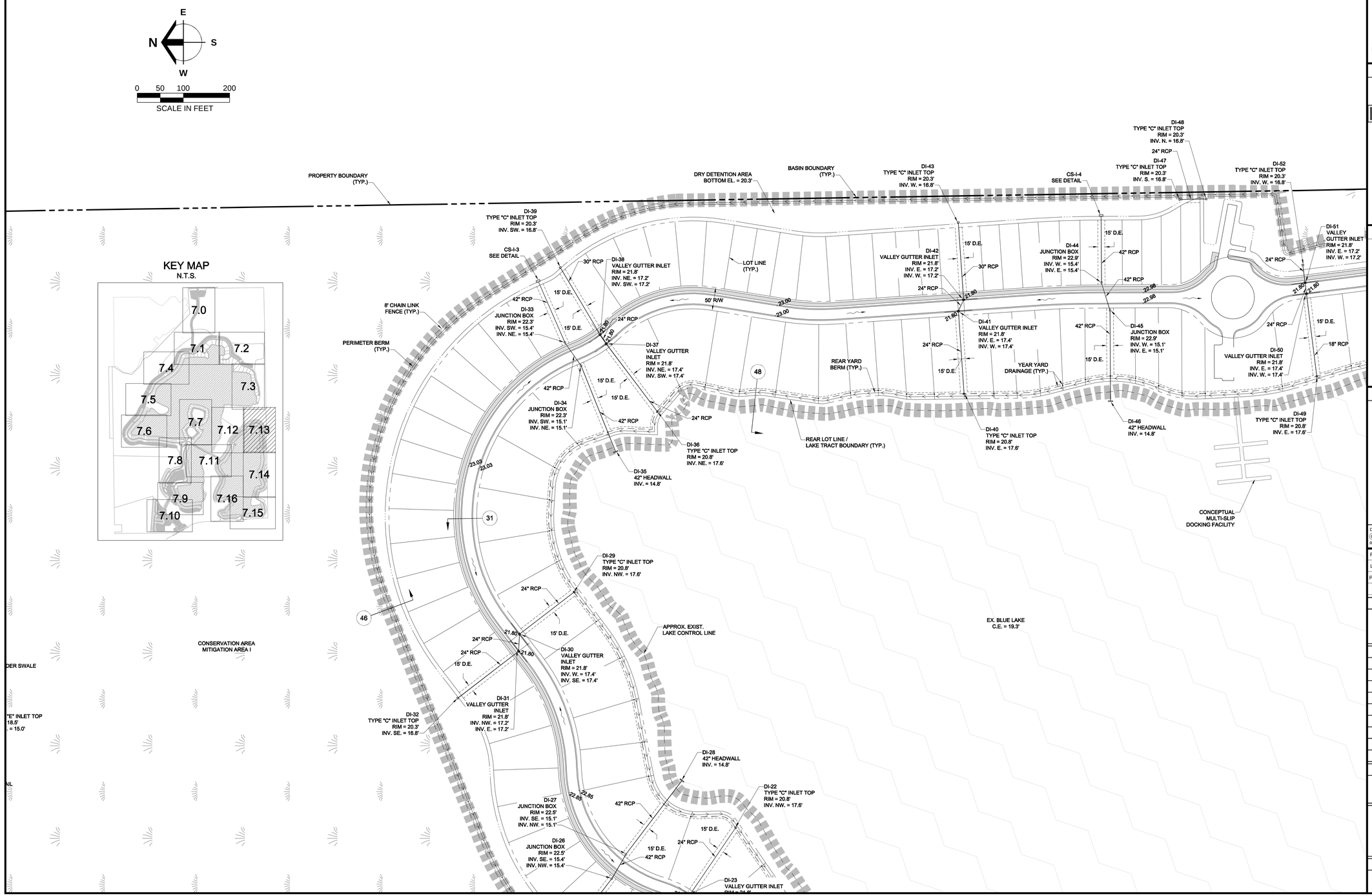
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.12



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PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

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ENGINEER OF RECORD

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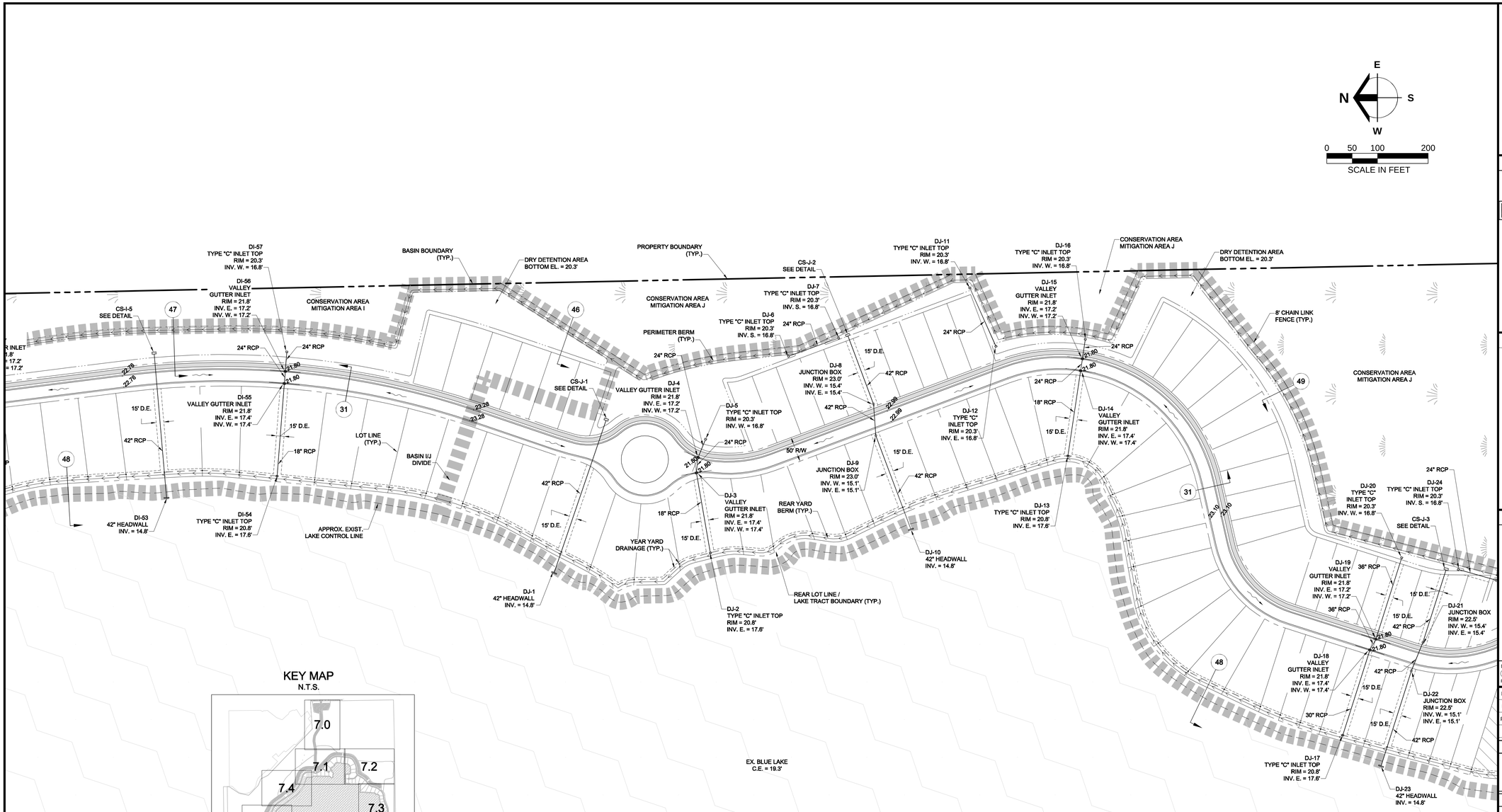
PLAN REVISIONS

PLAN STATUS

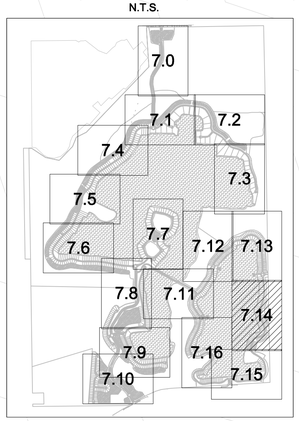
APPROVAL SUBMITTALS PLANS
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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.13



KEY MAP
N.T.S.



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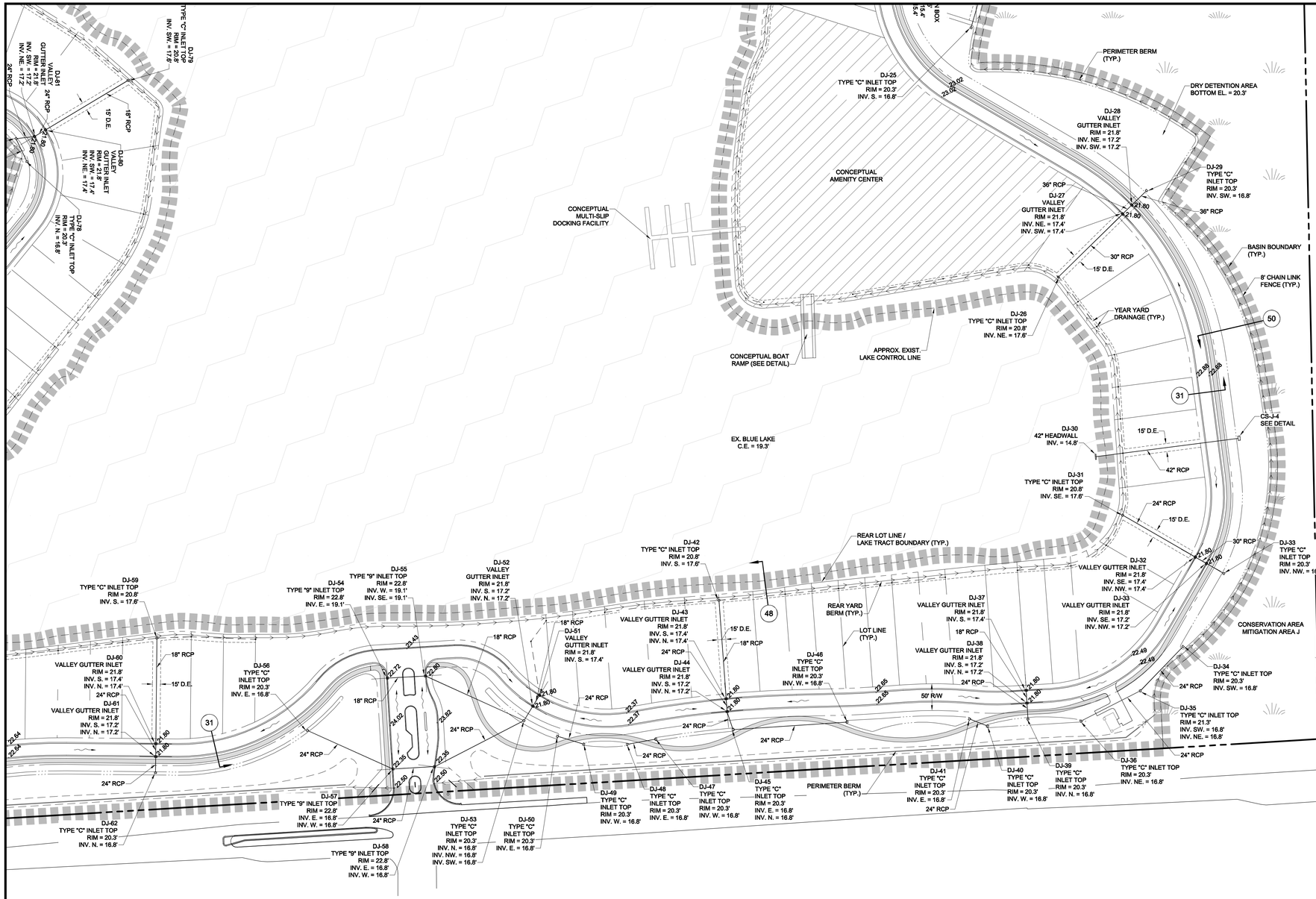
PLAN REVISIONS

PLAN STATUS

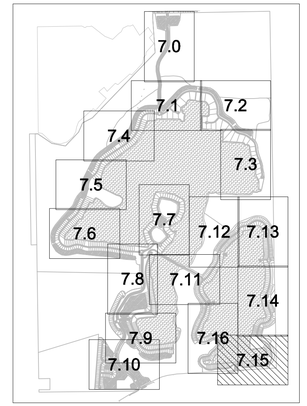
APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.14



KEY MAP
N.T.S.



N
W E
S

0 50 100 200
SCALE IN FEET

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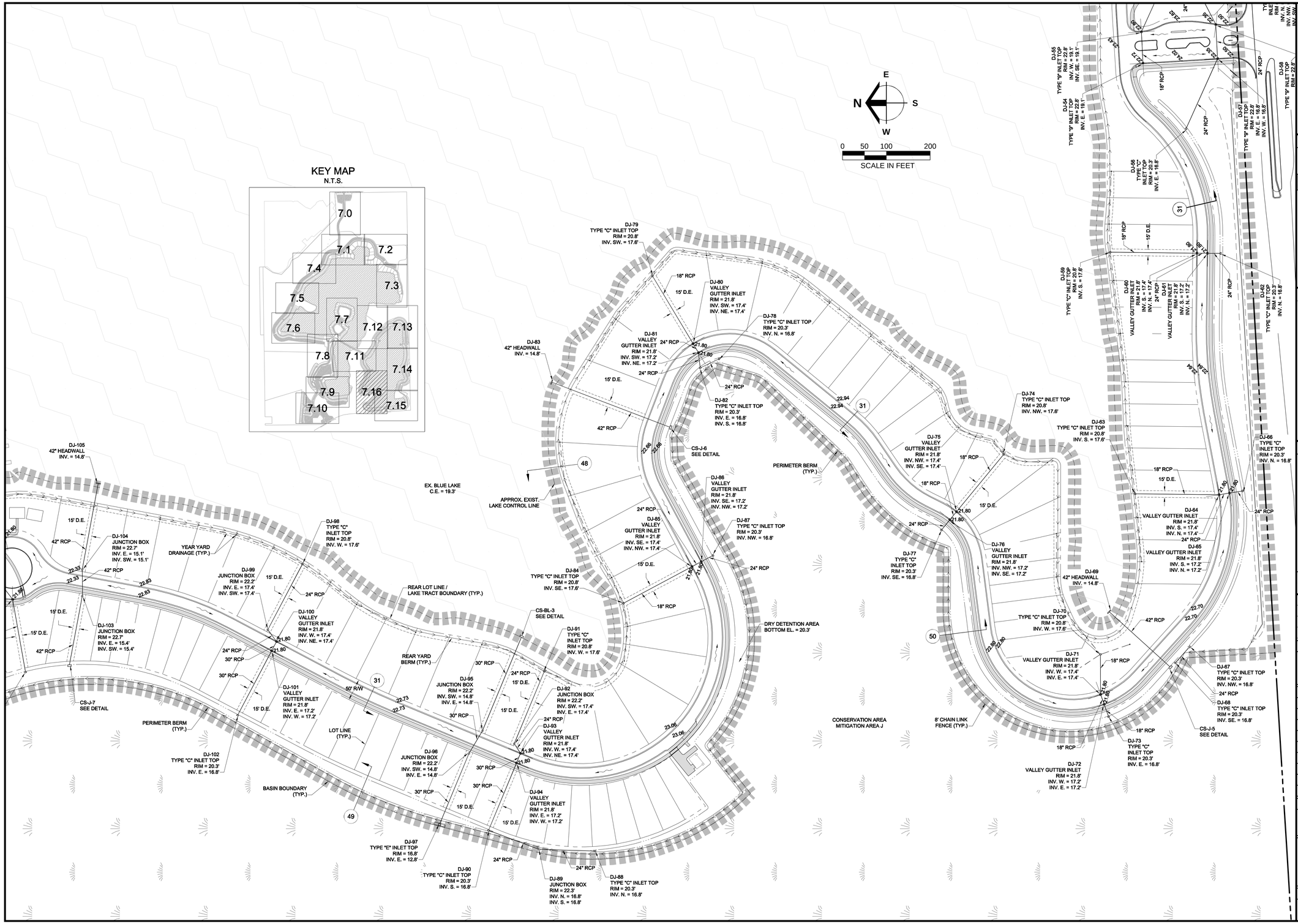
PLAN STATUS

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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
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KEY MAP
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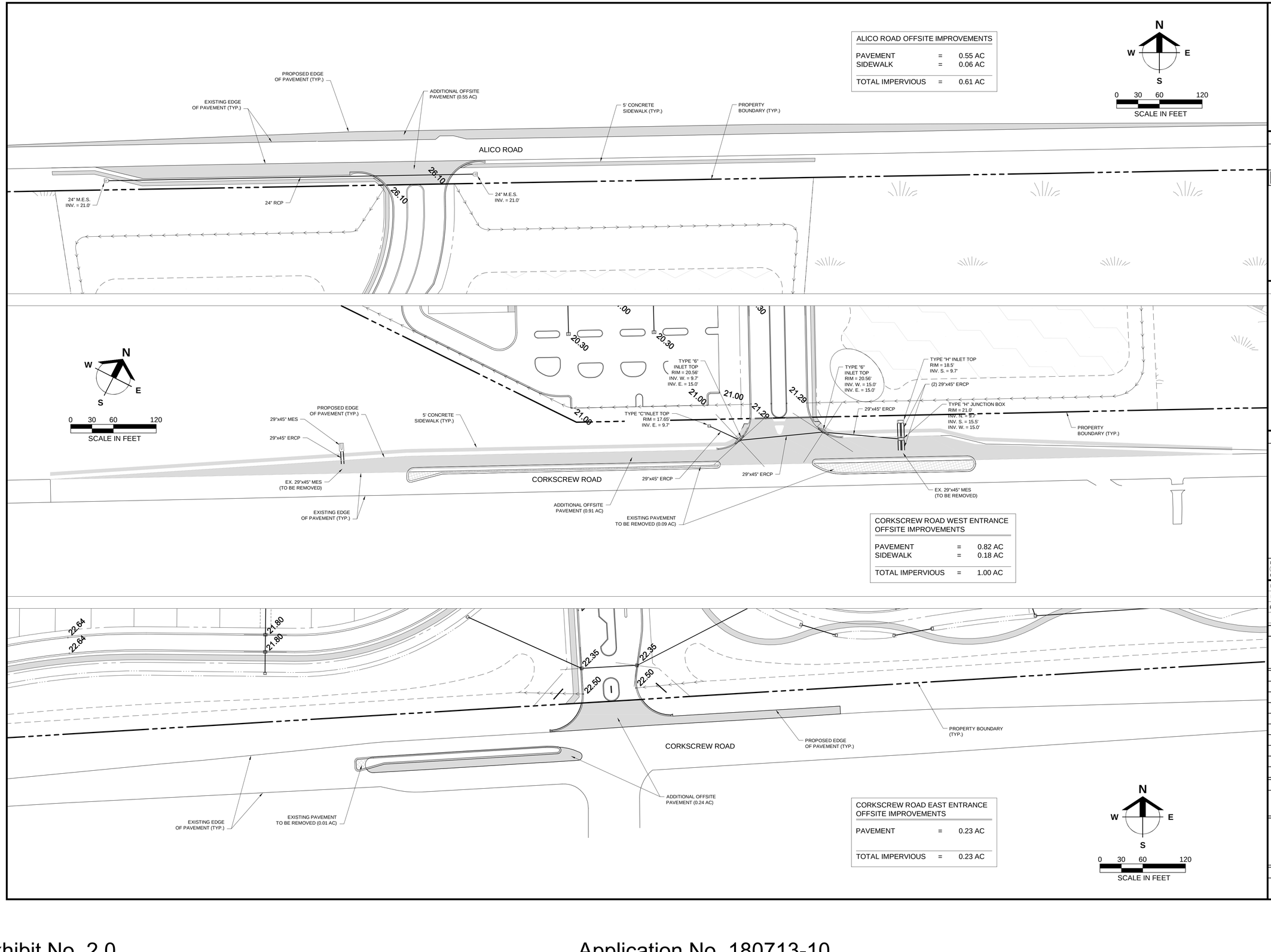
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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DETAILED PAVING, GRADING, AND DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.16



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OFFSITE TURN-LANE IMPROVEMENT PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	7.17

COMMERCIAL OUTPARCEL - DRY DETENTION STAGE-STORAGE

STAGE	DETENTION AREA	INCREMENTAL STORAGE VOLUME	CUMULATIVE STORAGE VOLUME
17.80' NAVD	0 s.f.	0.00 ac-ft	0.00 ac-ft
18.30' NAVD	0 s.f.	0.00 ac-ft	0.00 ac-ft
18.80' NAVD	52272 s.f.	0.00 ac-ft	0.00 ac-ft
19.30' NAVD	53759 s.f.	0.61 ac-ft	0.61 ac-ft
19.80' NAVD	55246 s.f.	0.63 ac-ft	1.23 ac-ft
20.30' NAVD	55246 s.f.	0.63 ac-ft	1.87 ac-ft
20.80' NAVD	55246 s.f.	0.63 ac-ft	2.50 ac-ft
21.30' NAVD	55246 s.f.	0.63 ac-ft	3.14 ac-ft

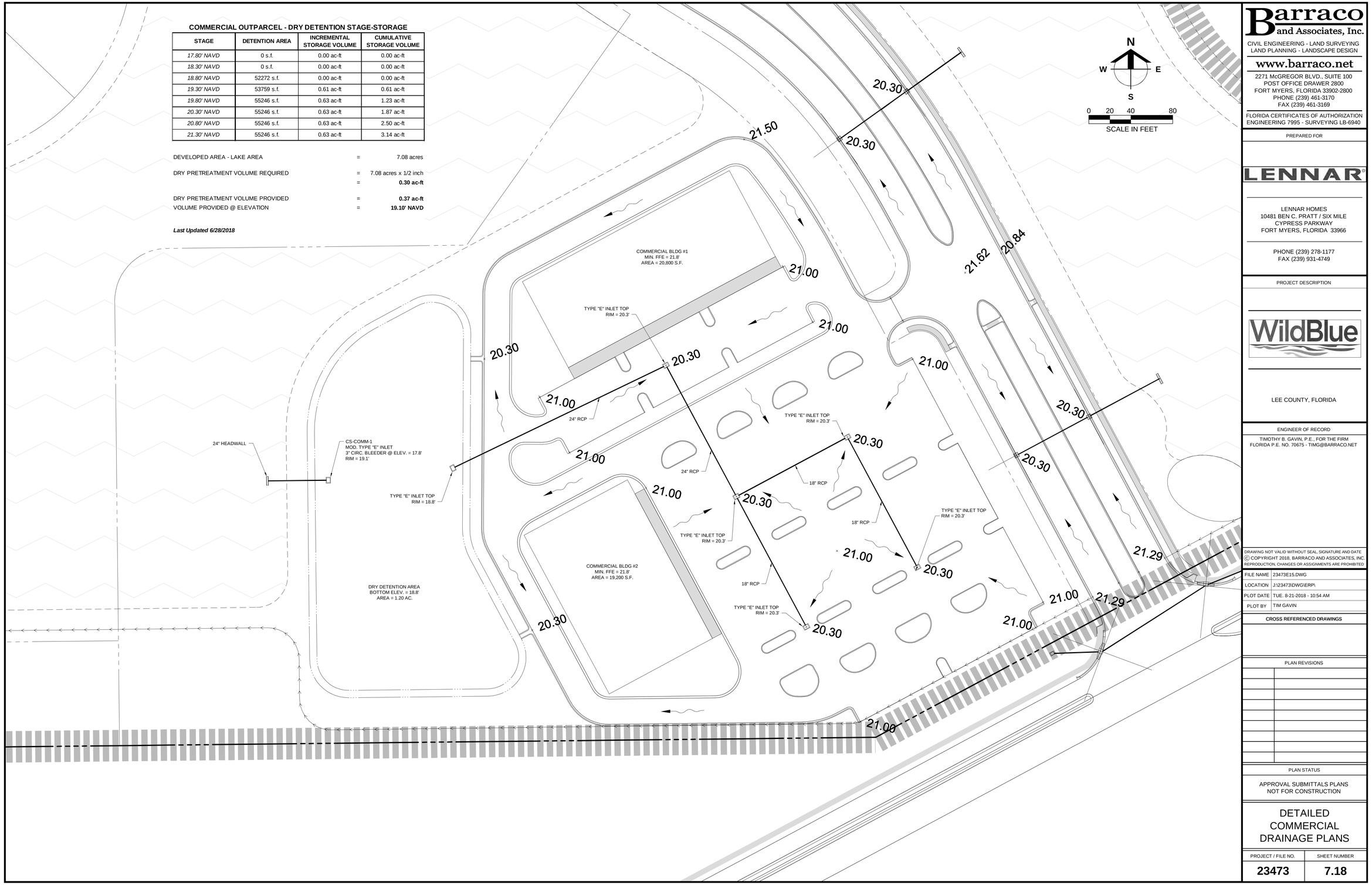
DEVELOPED AREA - LAKE AREA = 7.08 acres

DRY PRETREATMENT VOLUME REQUIRED = 7.08 acres x 1/2 inch
= **0.30 ac-ft**

DRY PRETREATMENT VOLUME PROVIDED = **0.37 ac-ft**

VOLUME PROVIDED @ ELEVATION = **19.10' NAVD**

Last Updated 6/28/2018



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PROJECT DESCRIPTION

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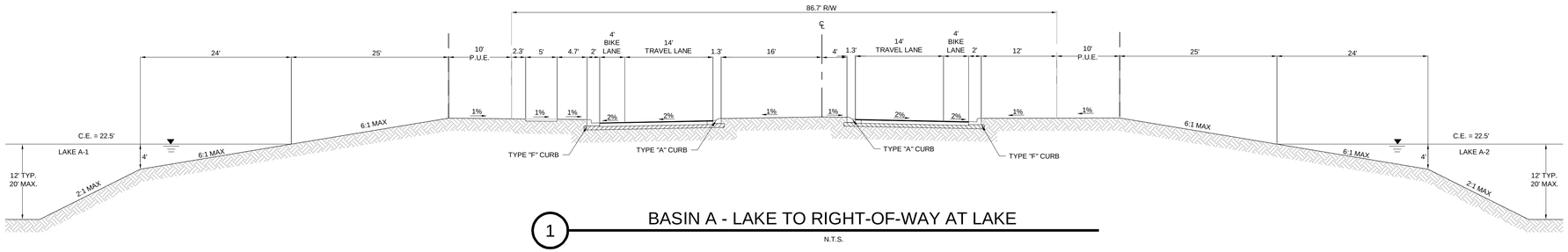
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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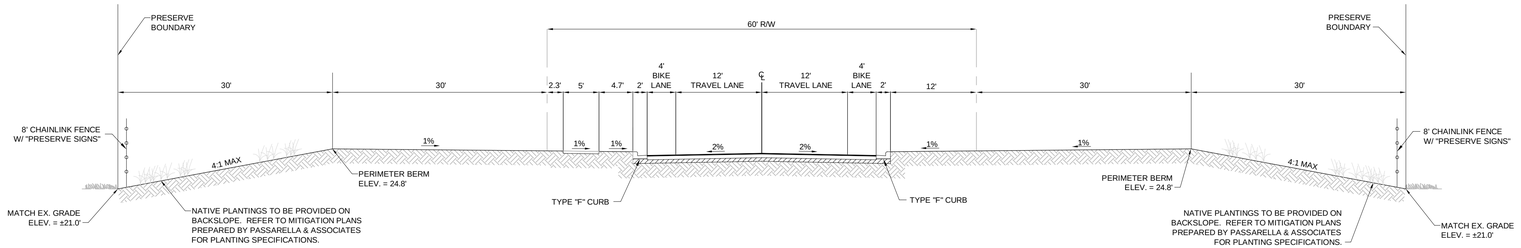
DETAILED COMMERCIAL DRAINAGE PLANS

PROJECT / FILE NO.	SHEET NUMBER
23473	**7.18**



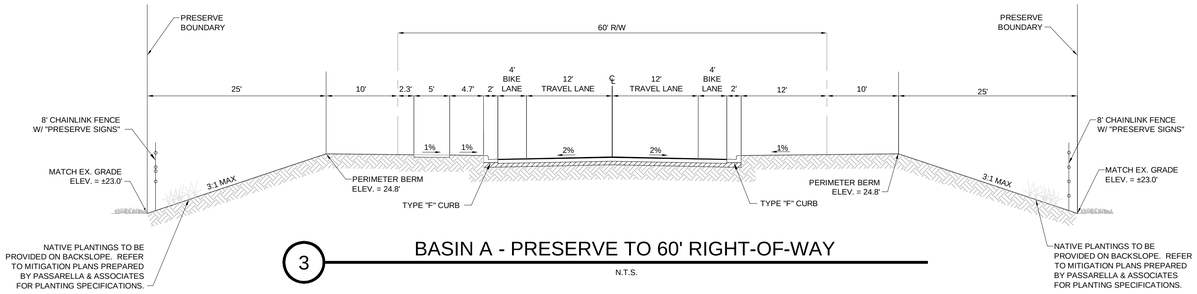
1 BASIN A - LAKE TO RIGHT-OF-WAY AT LAKE

N.T.S.



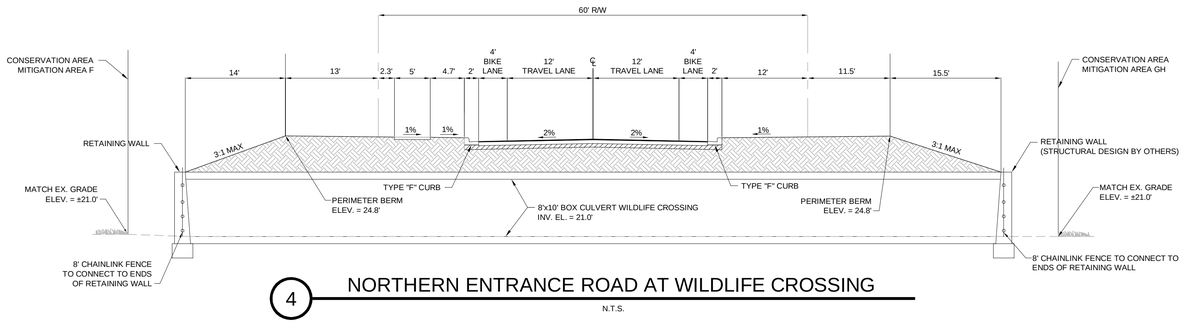
2 BASIN A - PRESERVE TO 60' RIGHT-OF-WAY

N.T.S.



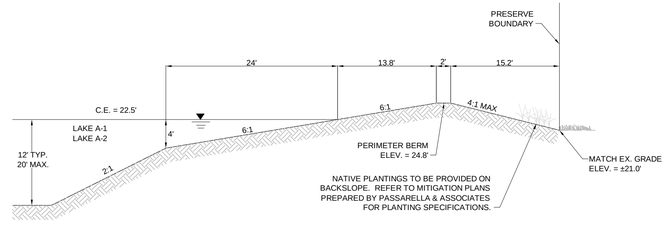
3 BASIN A - PRESERVE TO 60' RIGHT-OF-WAY

N.T.S.



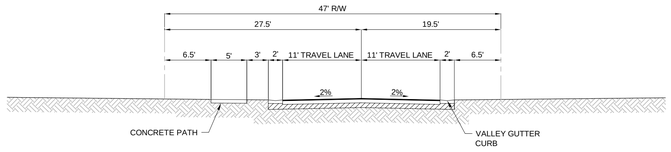
4 NORTHERN ENTRANCE ROAD AT WILDLIFE CROSSING

N.T.S.



5 BASIN A - LAKE TO PRESERVE

N.T.S.



6 TYPICAL 47' RIGHT-OF-WAY

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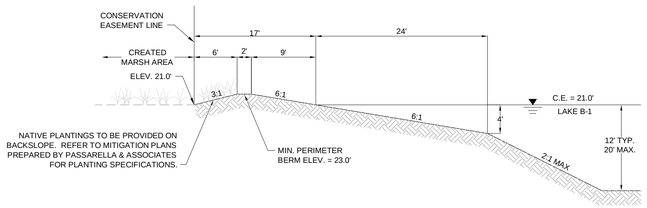
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

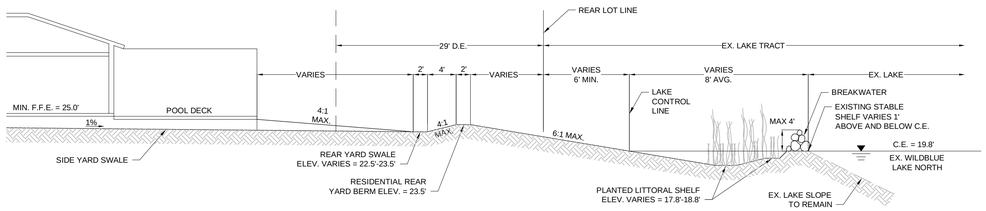
TYPICAL SECTIONS

PROJECT / FILE NO.	SHEET NUMBER
23473	8.0



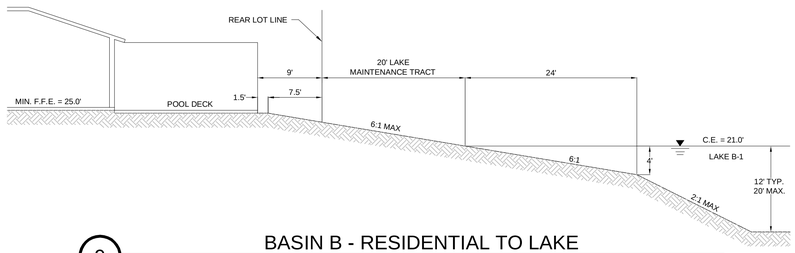
7 BASIN B - CREATED MARSH TO LAKE

N.T.S.



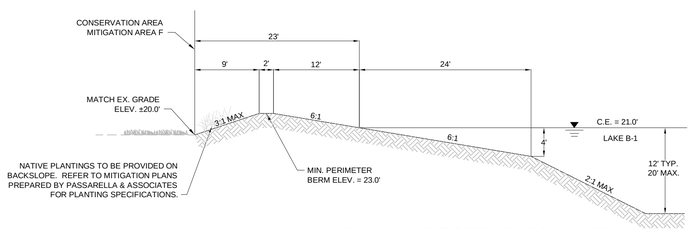
8 BASIN B - RESIDENTIAL TO EXISTING LAKE

N.T.S.



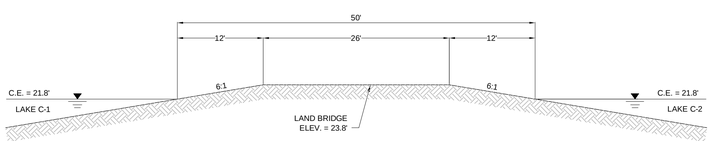
9 BASIN B - RESIDENTIAL TO LAKE

N.T.S.



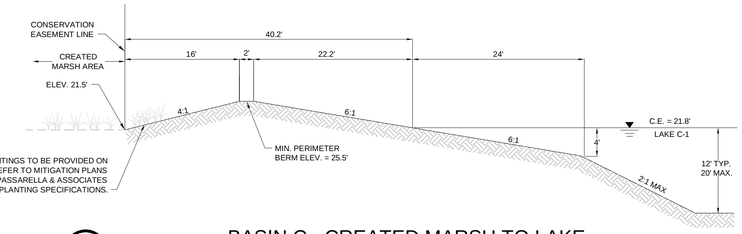
10 BASIN B - PRESERVE TO LAKE

N.T.S.



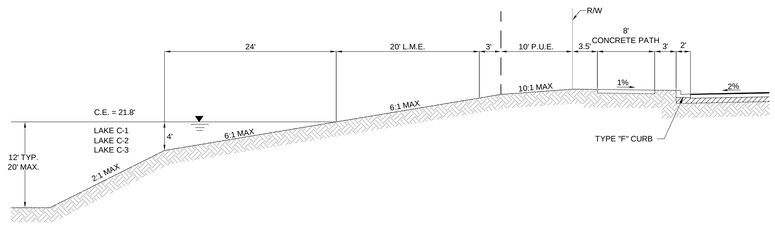
11 BASIN C - LAKE LAND BRIDGE

N.T.S.



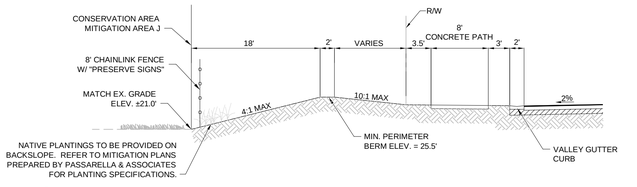
12 BASIN C - CREATED MARSH TO LAKE

N.T.S.



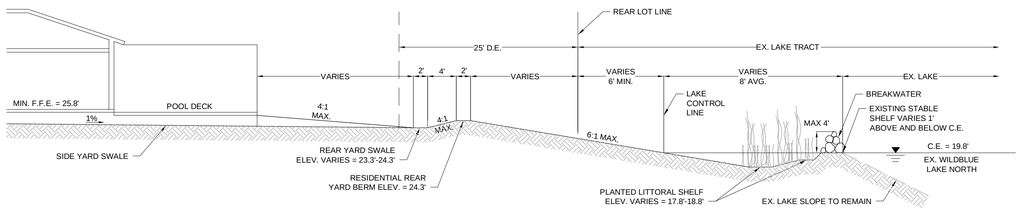
13 BASIN C - LAKE TO RIGHT-OF-WAY

N.T.S.



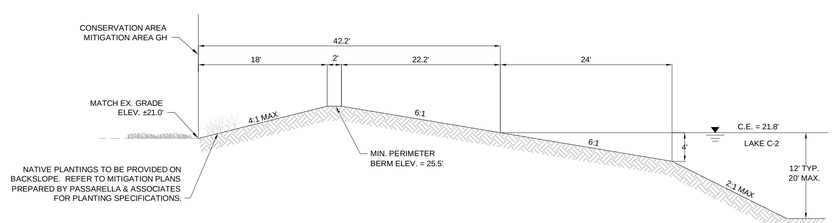
14 BASIN C - PRESERVE TO 47' RIGHT-OF-WAY

N.T.S.



15 BASIN C - RESIDENTIAL TO EXISTING LAKE

N.T.S.



16 BASIN C - PRESERVE TO LAKE

N.T.S.

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PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

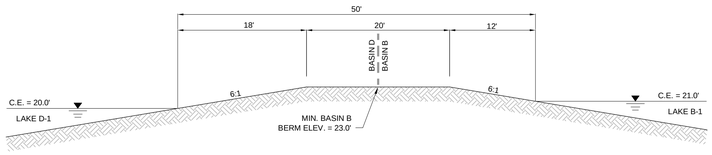
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

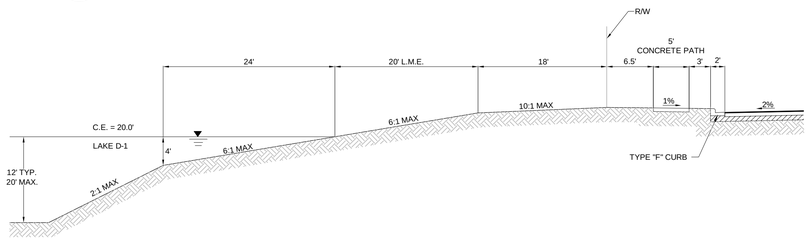
TYPICAL SECTIONS

PROJECT / FILE NO.	SHEET NUMBER
23473	8.1



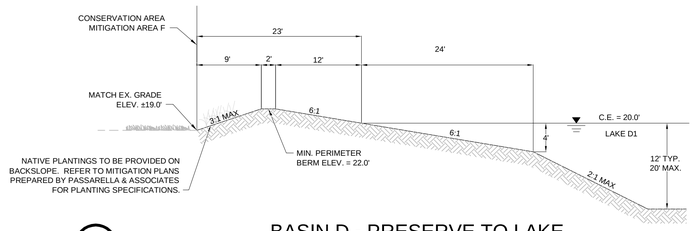
17 BASIN D LAKE TO BASIN B LAKE

N.T.S.



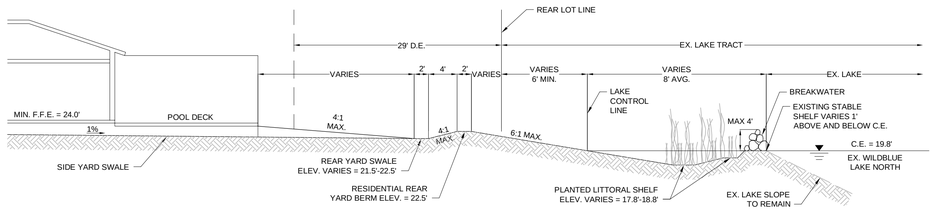
18 BASIN D - LAKE TO RIGHT-OF-WAY

N.T.S.



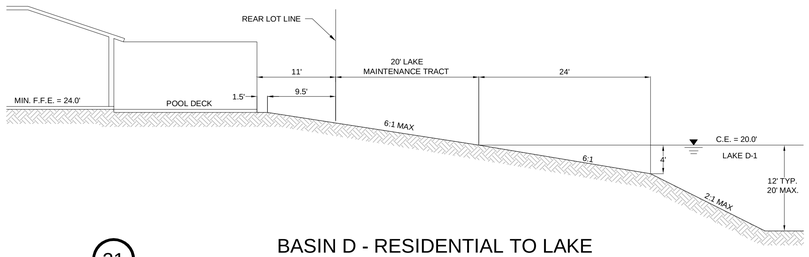
19 BASIN D - PRESERVE TO LAKE

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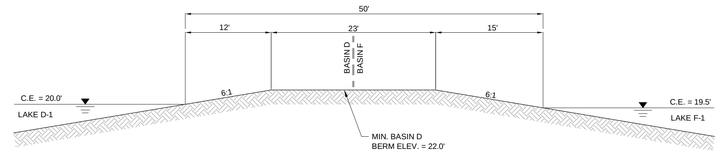
20 BASIN D - RESIDENTIAL TO EXISTING LAKE

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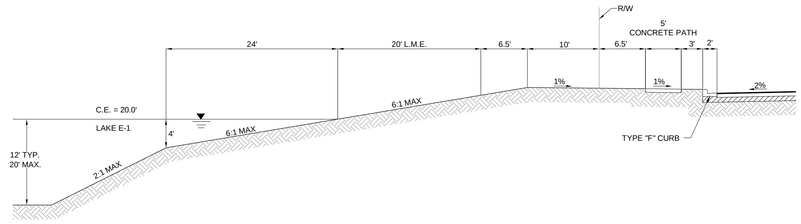
21 BASIN D - RESIDENTIAL TO LAKE

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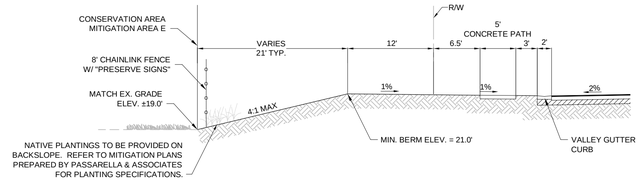
22 BASIN D LAKE TO BASIN F LAKE

N.T.S.



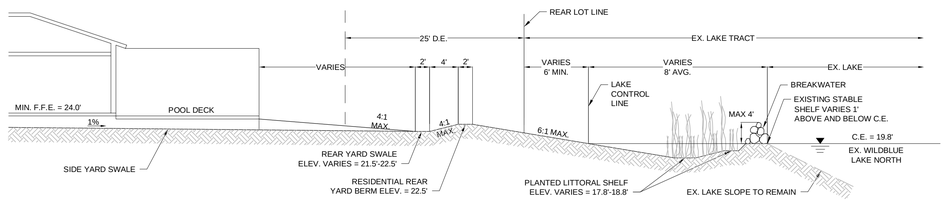
23 BASIN E - LAKE TO RIGHT-OF-WAY

N.T.S.



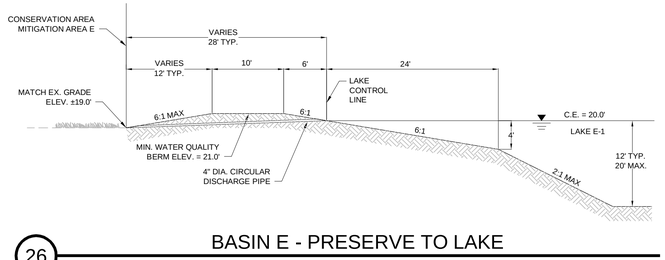
24 BASIN E - PRESERVE TO 47' RIGHT-OF-WAY

N.T.S.



25 BASIN E - RESIDENTIAL TO EXISTING LAKE

N.T.S.



26 BASIN E - PRESERVE TO LAKE

N.T.S.

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PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME	23473E18.DWG
LOCATION	J:\23473\DWG\ERP\
PLOT DATE	TUE. 8-21-2018 - 10:55 AM
PLOT BY	TIM GAVIN

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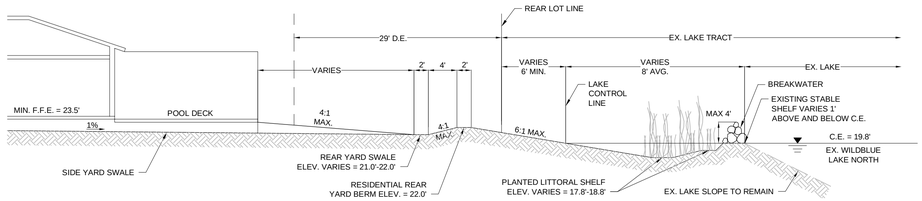
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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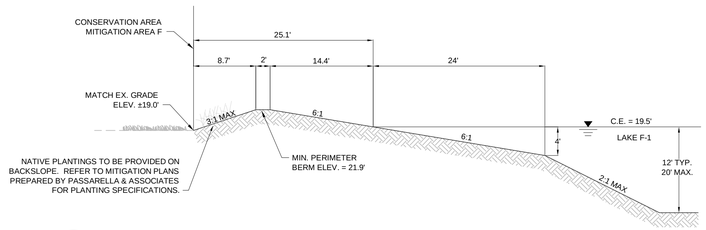
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PROJECT / FILE NO.	SHEET NUMBER
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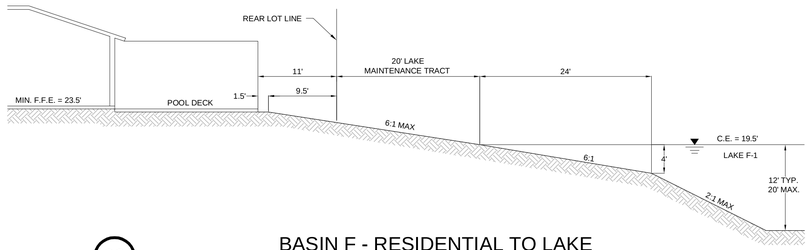
27 BASIN F - RESIDENTIAL TO EXISTING NORTH LAKE

N.T.S.



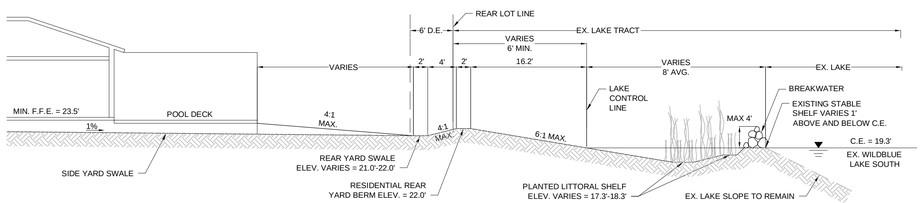
28 BASIN F - PRESERVE TO LAKE

N.T.S.



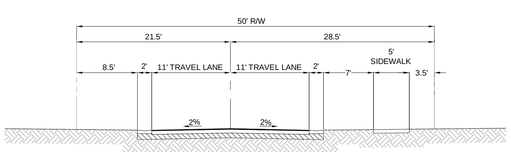
29 BASIN F - RESIDENTIAL TO LAKE

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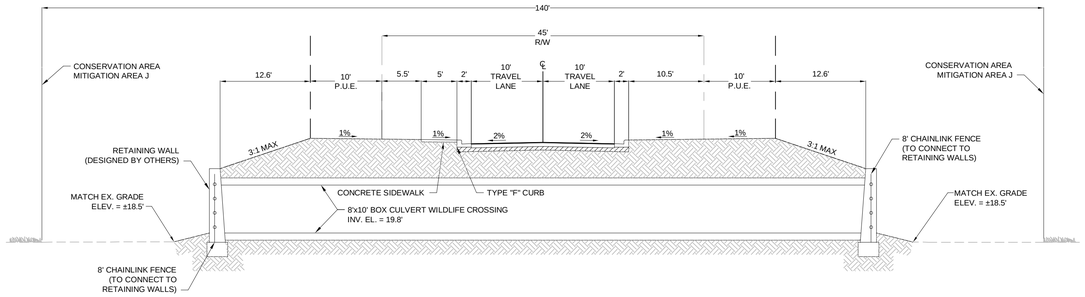
30 BASIN F - RESIDENTIAL TO EXISTING SOUTH LAKE

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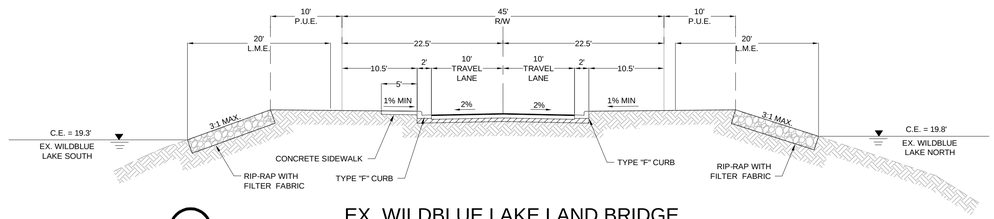
31 TYPICAL 50' RIGHT-OF-WAY

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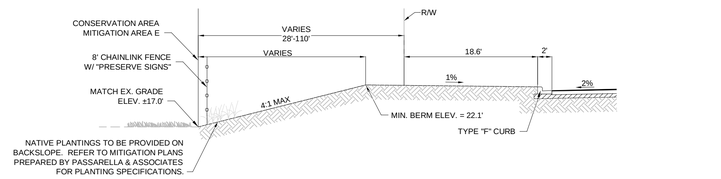
32 TYPICAL 45' RIGHT-OF-WAY AT WILDLIFE CROSSING

N.T.S.



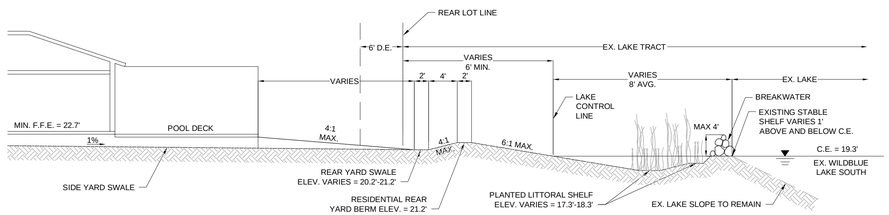
33 EX. WILDBLUE LAKE LAND BRIDGE

N.T.S.



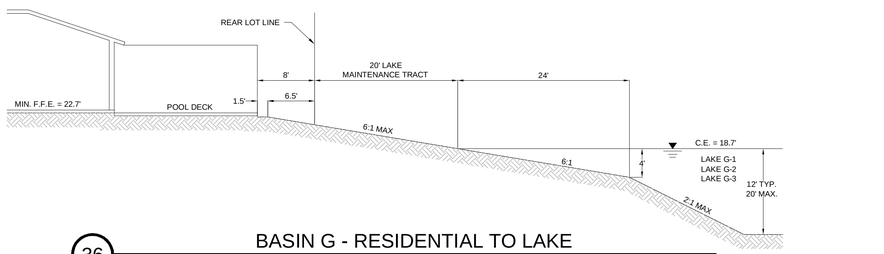
34 BASIN G - PRESERVE TO 100' RIGHT-OF-WAY

N.T.S.



35 BASIN G - RESIDENTIAL TO EXISTING SOUTH LAKE

N.T.S.



36 BASIN G - RESIDENTIAL TO LAKE

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PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

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FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT BY	TIM GAVIN

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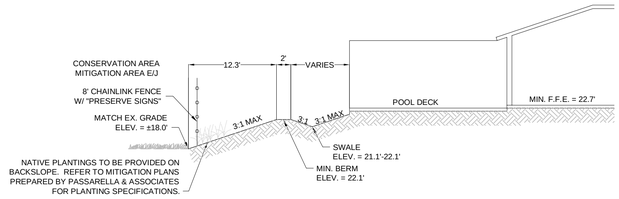
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

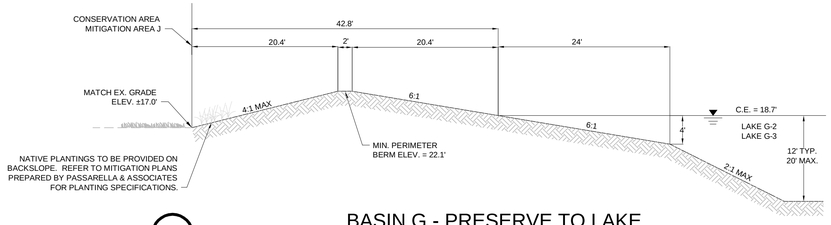
TYPICAL SECTIONS

PROJECT / FILE NO.	SHEET NUMBER
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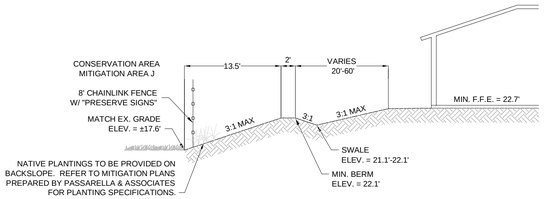
37 BASIN G - PRESERVE TO RESIDENTIAL

N.T.S.



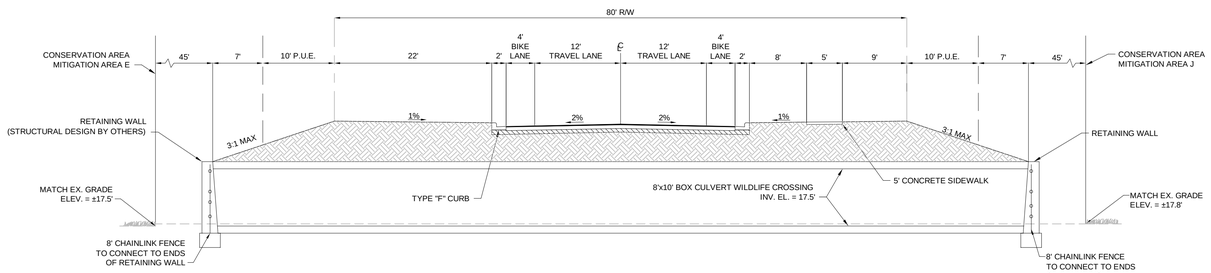
38 BASIN G - PRESERVE TO LAKE

N.T.S.



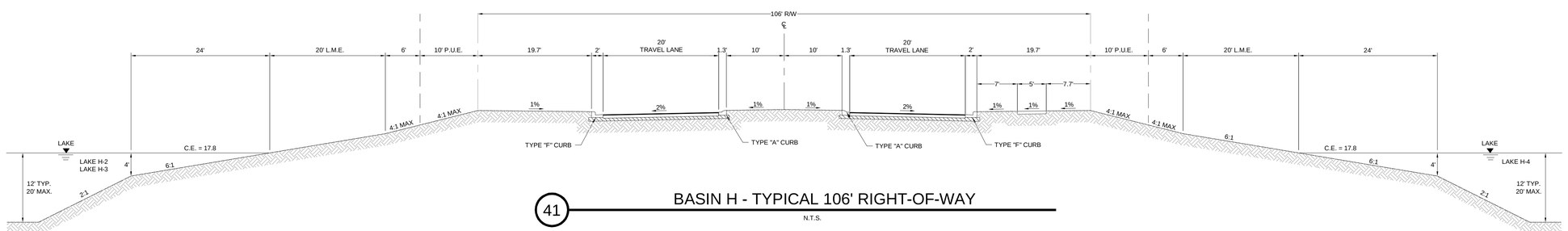
39 BASIN G - PRESERVE TO RESIDENTIAL SIDE LOT

N.T.S.



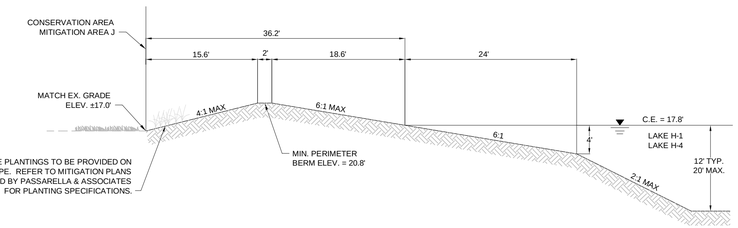
40 SOUTHERN ENTRANCE ROAD AT WILDLIFE CROSSING

N.T.S.



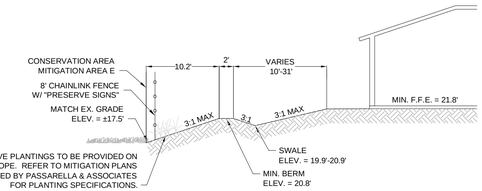
41 BASIN H - TYPICAL 106' RIGHT-OF-WAY

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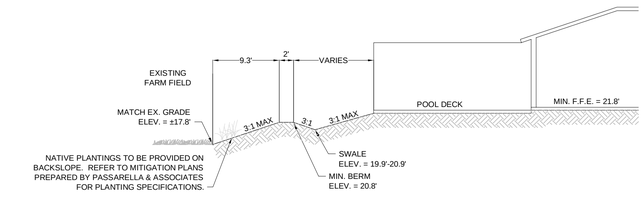
42 BASIN H - PRESERVE TO LAKE

N.T.S.



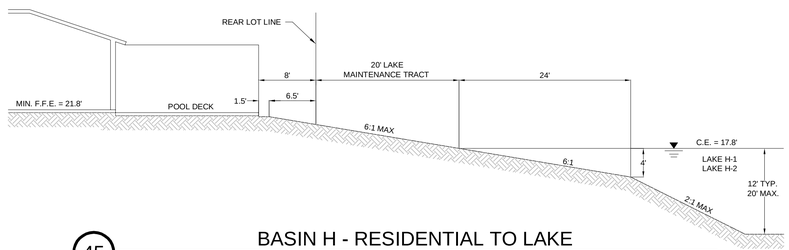
43 BASIN H - PRESERVE TO RESIDENTIAL SIDE LOT

N.T.S.



44 BASIN H - PROPERTY LINE TO RESIDENTIAL

N.T.S.



45 BASIN H - RESIDENTIAL TO LAKE

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PREPARED FOR

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ENGINEER OF RECORD

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PLOT BY	TIM GAVIN

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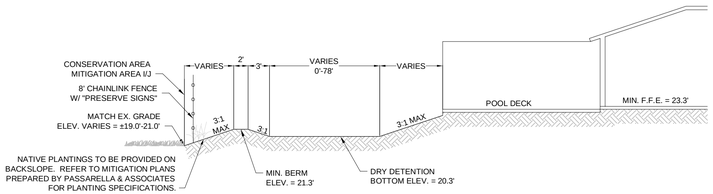
PLAN REVISIONS

PLAN STATUS

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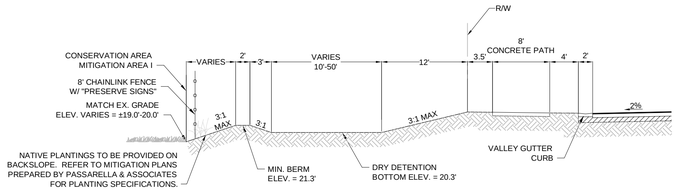
TYPICAL SECTIONS

PROJECT / FILE NO.	SHEET NUMBER
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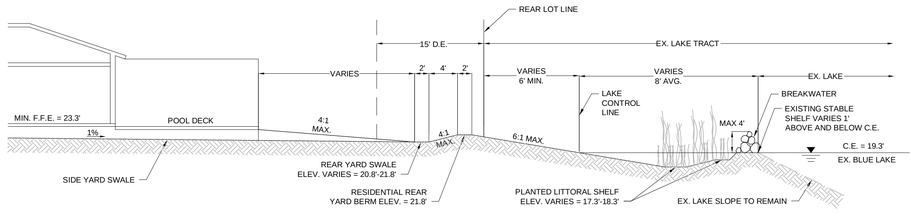
46 BASIN I - PRESERVE TO DRY DETENTION TO RESIDENTIAL

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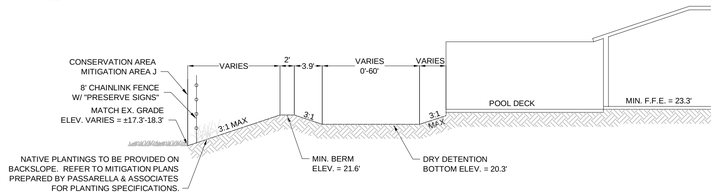
47 BASIN I - PRESERVE TO DRY DETENTION TO RIGHT-OF-WAY

N.T.S.



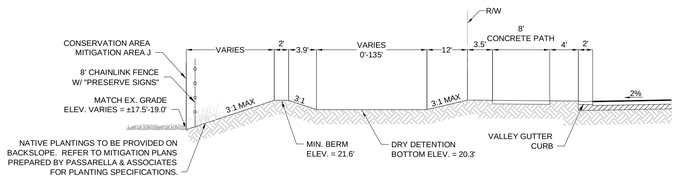
48 BASIN I/J - RESIDENTIAL TO EXISTING BLUE LAKE

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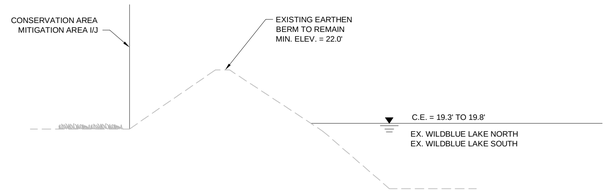
49 BASIN J - PRESERVE TO DRY DETENTION TO RESIDENTIAL

N.T.S.



50 BASIN J - PRESERVE TO DRY DETENTION TO RIGHT-OF-WAY

N.T.S.



51 PRESERVE TO EXISTING LAKE

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ENGINEER OF RECORD

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CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

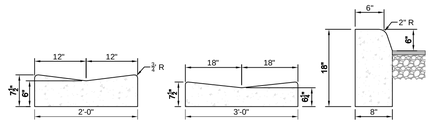
APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

TYPICAL SECTIONS

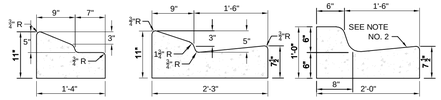
PROJECT / FILE NO.	SHEET NUMBER
23473	8.5

NOTES

1. SEE F.D.O.T. DESIGN STANDARDS INDEX 300 FOR ADDITIONAL DETAILS.
2. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.
3. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI. WITHIN 28 DAYS UNLESS NOTED OTHERWISE.



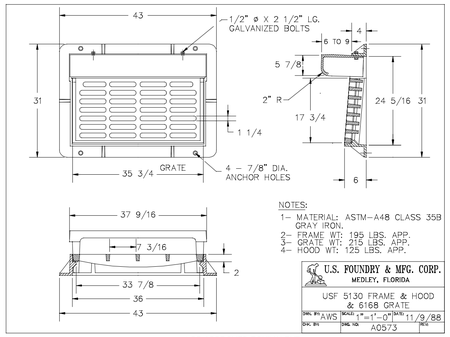
2' VALLEY GUTTER | 3' VALLEY GUTTER | TYPE "D" CURB



TYPE "A" CURB | TYPE "E" CURB | TYPE "F" CURB

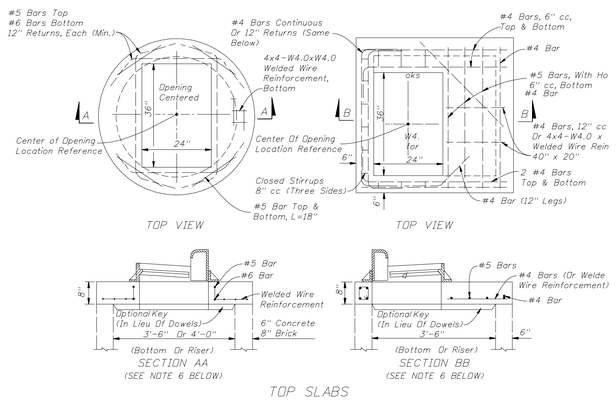
CONCRETE CURB

N.T.S.



* OR APPROVED EQUIVALENT

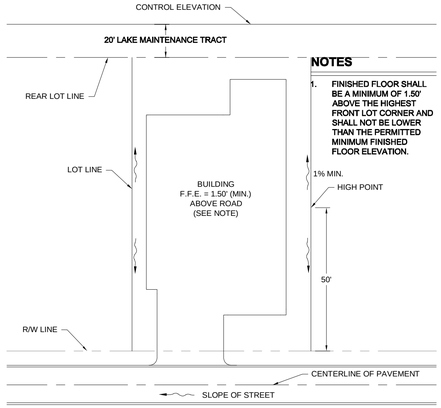
N.T.S.



NOTE: FOR MORE INFORMATION SEE FDOT INDEX #214

TYPE 9 CURB INLET

N.T.S.

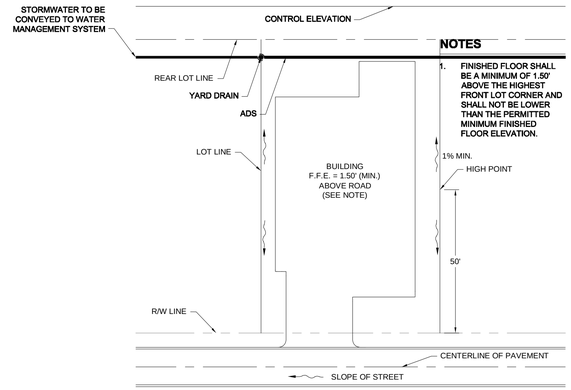


NOTES

1. **FINISHED FLOOR SHALL BE A MINIMUM OF 1.50' ABOVE THE HIGHEST FRONT LOT CORNER AND SHALL NOT BE LOWER THAN THE PERMITTED MINIMUM FINISHED FLOOR ELEVATION.**

TYPICAL LOT GRADING PLAN (WATER MANAGEMENT LAKE)

N.T.S.



NOTES

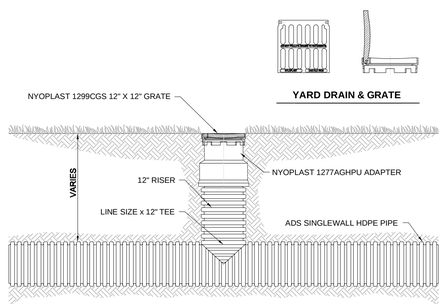
1. **FINISHED FLOOR SHALL BE A MINIMUM OF 1.50' ABOVE THE HIGHEST FRONT LOT CORNER AND SHALL NOT BE LOWER THAN THE PERMITTED MINIMUM FINISHED FLOOR ELEVATION.**

TYPICAL LOT GRADING PLAN (RECREATIONAL LAKE)

N.T.S.

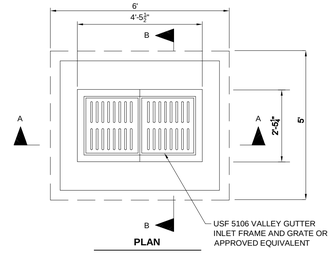
NOTES

1. SEE DETAILED SITE PLANS FOR DRAINAGE PIPE SIZES AND INVERTS.
2. ALTERNATE PIPE MATERIALS MAY BE SUBMITTED TO ENGINEER FOR CONSIDERATION.
3. INSTALL PIPE AND YARD DRAIN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. CONTRACTOR MAY UTILIZE LARGER PIPE SIZES THAN THOSE SHOWN ON PLANS AT NO ADDITIONAL COMPENSATION.



RESIDENTIAL YARD DRAIN

N.T.S.

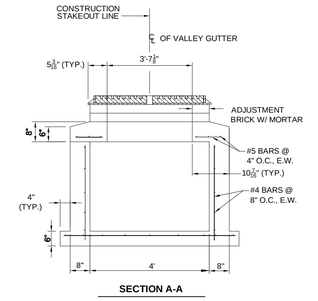


PLAN

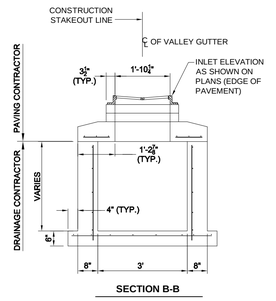
NOTES

1. ALL REINFORCED STEEL SHALL HAVE MINIMUM TWO INCHES OF COVER.
2. ALL CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 3,000 PSI. AT 28 DAYS.
3. CONTRACTOR TO PROVIDE AND INSTALL A NON-WOVEN FILTER FABRIC OVER INLET GRATE DURING CONSTRUCTION.

INLET TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT F.D.O.T. STANDARD INDEX 200 AND 201.



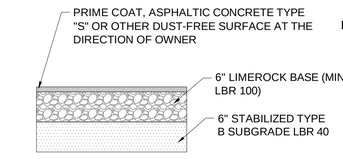
SECTION A-A



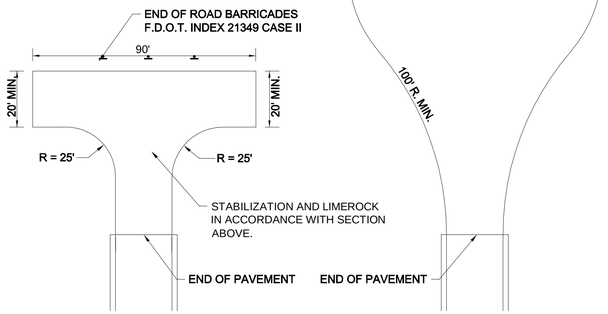
SECTION B-B

VALLEY GUTTER INLET

N.T.S.



STABILIZATION SECTION



TEMPORARY TURN AROUND

N.T.S.

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10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

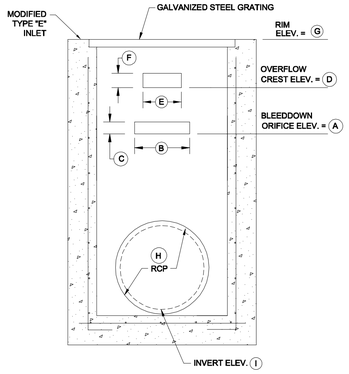
PLAN REVISIONS

PLAN STATUS

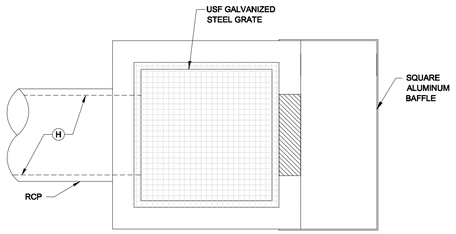
APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

TYPICAL DRAINAGE DETAILS

PROJECT / FILE NO.	SHEET NUMBER
23473	8.6



SECTION



PLAN

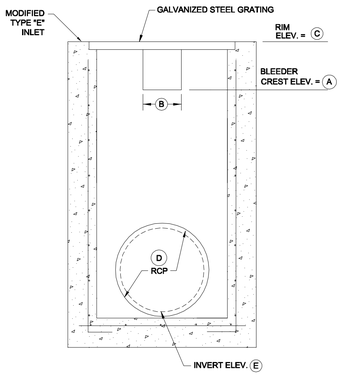
CONTROL STRUCTURE PARAMETERS	
A	INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)
B	WIDTH OF BLEEDDOWN ORIFICE (INCHES)
C	HEIGHT OF BLEEDDOWN ORIFICE (INCHES)
D	OVERFLOW CREST ELEVATION (FT-NAVD)
E	WIDTH OF OVERFLOW ORIFICE (INCHES)
F	HEIGHT OF OVERFLOW ORIFICE (INCHES)
G	RIM ELEVATION OF STRUCTURE (FT-NAVD)
H	PIPE DIAMETER (INCHES)
I	INVERT OF PIPE AT STRUCTURE (FT-NAVD)

CONTROL STRUCTURE SCHEDULE:

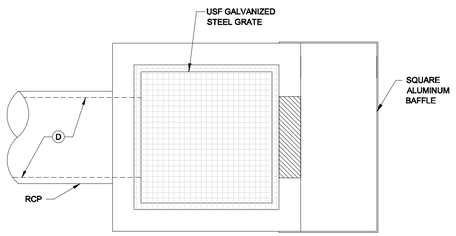
	A	B	C	D	E	F	G	H	I
CS-A-1	22.5'	11.0"	2.0"	22.9'	2.0"	3.0"	24.8'	18"	17.3'
CS-B-1 & CS-B-2	21.0'	9.0"	3.0"	21.7'	8.0"	3.0"	23.0'	24"	16.5'
CS-C-1 & CS-C-2	21.8'	13.0"	3.0"	22.6'	8.0"	2.0"	25.5'	24"	17.3'
CS-D-1 & CS-D-2	20.0'	12.0"	2.0"	20.7'	10.5"	2.0"	22.0'	24"	15.0'
CS-F-1 & CS-F-2	19.5'	10.0"	3.0"	20.2'	7.5"	2.0"	21.9'	24"	15.0'
CS-G-1 & CS-G-2	18.7'	17.0"	3.0"	19.3'	4.0"	2.0"	22.1'	24"	15.2'
CS-H-1 & CS-H-2	17.8'	12.0"	3.0"	18.3'	3.5"	2.0"	20.8'	24"	14.3'

CONTROL STRUCTURES: GROUP 1

CS-A-1, CS-B-1&2, CS-C-1&2, CS-D-1&2, CS-F-1&2, CS-G-1&2, CS-H-1&2



SECTION



PLAN

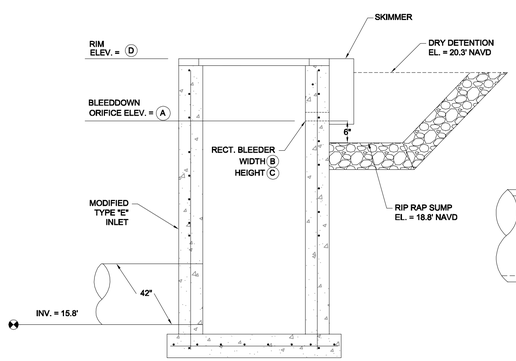
CONTROL STRUCTURE PARAMETERS	
A	INVERT OF BLEEDDOWN WEIR (FT-NAVD)
B	WIDTH OF BLEEDDOWN WEIR (INCHES)
C	RIM ELEVATION OF STRUCTURE (FT-NAVD)
D	PIPE DIAMETER (INCHES)
E	INVERT OF PIPE AT STRUCTURE (FT-NAVD)

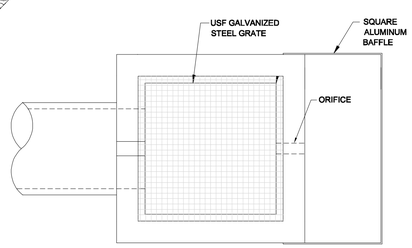
CONTROL STRUCTURE SCHEDULE:

	A	B	C	D	E
CS-E-1	20.0'	30.0"	20.3'	30"	14.4'

CONTROL STRUCTURES: GROUP 2

CS-E-1





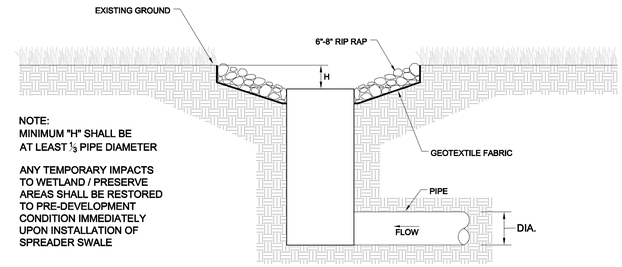
CONTROL STRUCTURE PARAMETERS	
A	INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)
B	WIDTH OF BLEEDDOWN ORIFICE (INCHES)
C	HEIGHT OF BLEEDDOWN ORIFICE (INCHES)
D	RIM ELEVATION OF STRUCTURE (FT-NAVD)

CONTROL STRUCTURE SCHEDULE:

	A	B	C	D
CS-I-1 TO CS-I-5	19.3'	3.5"	2.0"	20.8'
CS-J-1 TO CS-I-7	19.3'	3.0"	2.5"	21.0'

CONTROL STRUCTURES: GROUP 3

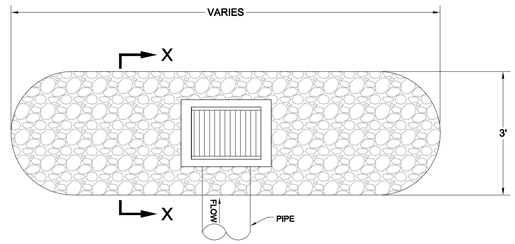
CS-I-1 TO 5 AND CS-J-1 TO 7



NOTE:
MINIMUM "H" SHALL BE AT LEAST $\frac{1}{3}$ PIPE DIAMETER

ANY TEMPORARY IMPACTS TO WETLAND / PRESERVE AREAS SHALL BE RESTORED TO PRE-DEVELOPMENT CONDITION IMMEDIATELY UPON INSTALLATION OF SPREADER SWALE

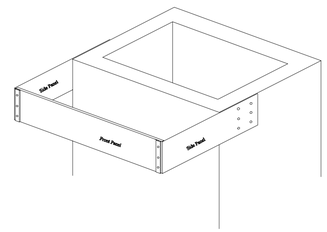
SECTION X-X



SPREADER SWALE

N.T.S.

SKIMMER FOR OUTLET CONTROL STRUCTURES



PICTORIAL VIEW

GENERAL SKIMMER NOTES
(REFER TO FDOT INDEX 240 FOR FURTHER DETAILS)

1. THIS SKIMMER IS INTENDED FOR USE ON TYPE C, D, OR E DITCH BOTTOM INLETS THAT ARE USED AS OUTLET CONTROL STRUCTURES OF STORMWATER MANAGEMENT FACILITIES.
2. THE SIDE PANELS ARE DIMENSIONALLY SYMMETRIC, THEREFORE THEY MAY BE USED ON EITHER SIDE OF THE STRUCTURE.
3. TWO (2) SKIMMERS MAY BE CONSTRUCTED ON ONE STRUCTURE PROVIDED THEY ARE ON OPPOSITE ENDS.
4. THE WIDTH OF THE FRONT PANEL (DIMENSION W) SHALL BE THE SAME AS THE OUTSIDE DIMENSION ACROSS THE FRONT OF THE STRUCTURE.
5. THE FRONT PANEL, SIDE PANELS, AND FLAT BARS ARE TO BE HOT DIP GALVANIZE AFTER FABRICATION.
6. THE LOCATION OF THE REINFORCING STEEL IN THESE STRUCTURES MUST CONFORM TO THE APPLICABLE STANDARDS TO AVOID CONFLICT WITH THE EXPANSION ANCHORS USED TO ATTACH THE SKIMMER.
7. GRATES TO BE USED ON THE INLETS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
8. A SKIMMER CONSISTS OF TWO (2) SIDE PANELS, ONE FRONT PANEL, TWO (2) FLAT BARS, AND ACCESSORY HARDWARE. THE COST OF THE SKIMMERS IS TO BE INCLUDED IN THE COST OF THE INLET.

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PREPARED FOR

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10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
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PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT BY	TIM GAVIN

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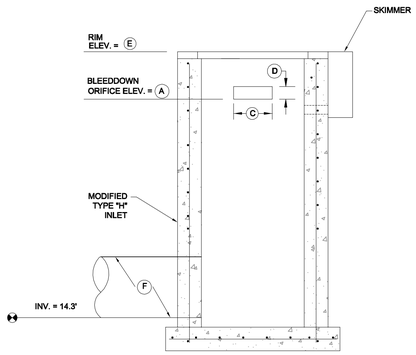
PLAN REVISIONS

PLAN STATUS

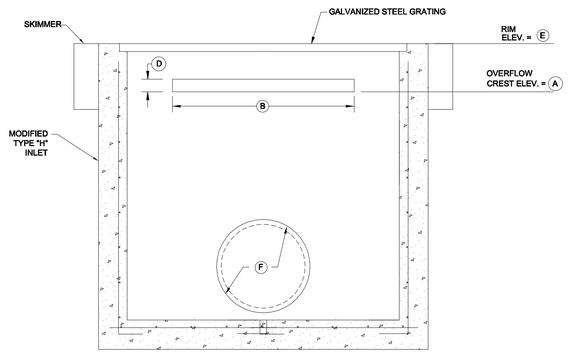
APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

CONTROL STRUCTURE DETAILS

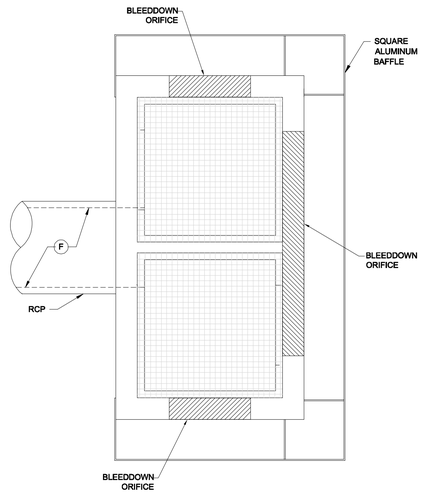
PROJECT / FILE NO.	SHEET NUMBER
23416	9.0



SIDE



SECTION



PLAN

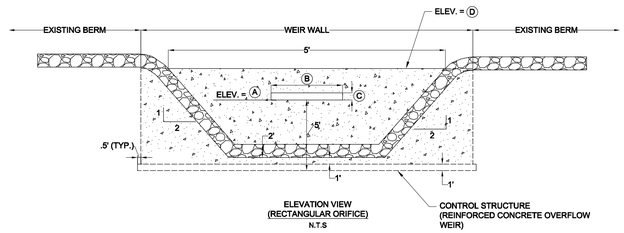
CONTROL STRUCTURES: GROUP 4

CS-B-3, CS-D-3, CS-F-3, CS-BL-1 TO 3, CS-FSN, & CS-FSS

CONTROL STRUCTURE PARAMETERS	
A	INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)
B	WIDTH OF FRONT BLEEDDOWN ORIFICE (INCHES)
C	WIDTH OF SIDE BLEEDDOWN ORIFICES (INCHES)
D	HEIGHT OF BLEEDDOWN ORIFICES (INCHES)
E	RIM ELEVATION OF STRUCTURE (FT-NAVD)
F	PIPE DIAMETER (INCHES)
G	INVERT OF PIPE AT STRUCTURE (FT-NAVD)

CONTROL STRUCTURE SCHEDULE:

	A	B	C	D	E	F	G
CS-B-3	-	-	-	-	21.7'	42"	16.0'
CS-D-3	-	-	-	-	20.7'	42"	15.0'
CS-F-3	-	-	-	-	20.2'	42"	14.5'
CS-BL-1 TO CS-BL-3	19.3'	25.2"	18"	3.6"	22.0'	30"	14.3'
CS-FSN	-	-	-	-	22.5'	36"	14.3'
CS-FSS	-	-	-	-	20.6'	24"	15.3'



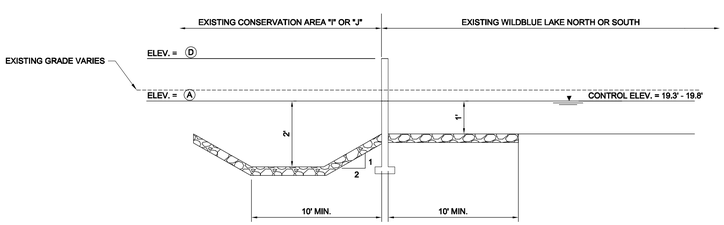
ELEVATION VIEW
(RECTANGULAR ORIFICE)
N.T.S

CONTROL STRUCTURE
(REINFORCED CONCRETE OVERFLOW
WEIR)

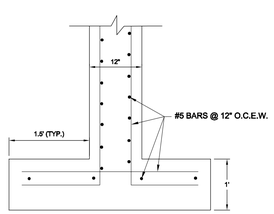
CONTROL STRUCTURE PARAMETERS	
A	INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)
B	WIDTH OF RECTANGULAR NOTCH/ DIAMETER OF CIRCULAR BLEEDER (INCHES)
C	HEIGHT OF RECTANGULAR NOTCH/ DIAMETER OF CIRCULAR BLEEDER (INCHES)
D	TOP OF WEIR WALL ELEVATION (FT-NAVD)

WEIR WALL
CONTROL STRUCTURE SCHEDULE:

	A	B	C	D
CS-WBLN-1 & 2	19.8'	144"	4"	21.2'
CS-WBLS-1 & 2	19.3'	22"	4"	20.5'

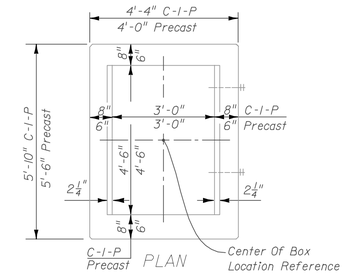


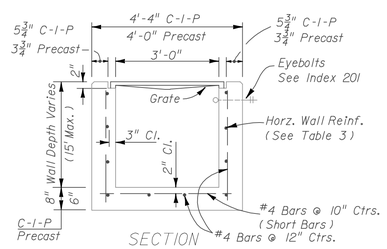
PROFILE VIEW
WEIR WALL CONTROL STRUCTURE
N.T.S.



REINFORCING STEEL DETAIL
N.T.S.

NOTES:
1. ALL REINFORCING STEEL AS SHOWN SHALL HAVE 2" MIN COVER
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS





FDOT TYPE 'E' INLET

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ENGINEER OF RECORD

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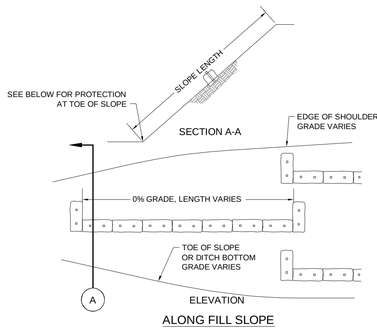
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

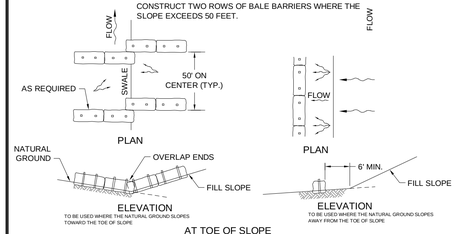
CONTROL
STRUCTURE
DETAILS

PROJECT / FILE NO.	SHEET NUMBER
23416	9.1

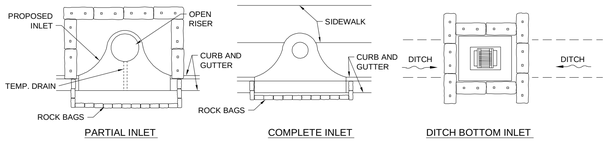


ALONG FILL SLOPE

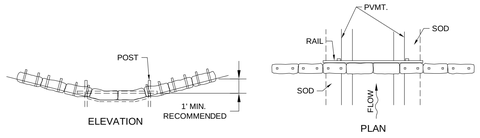
NOTE:
WHERE THE SLOPE LENGTH EXCEEDS 25 FEET, CONSTRUCT ONE ROW OF BALE BARRIERS AT 0% LONGITUDINAL GRADE MIDWAY UP THE SLOPE. CONSTRUCT TWO ROWS OF BALE BARRIERS WHERE THE SLOPE EXCEEDS 50 FEET.



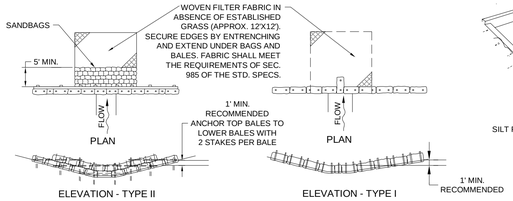
BARRIERS FOR FILL SLOPES



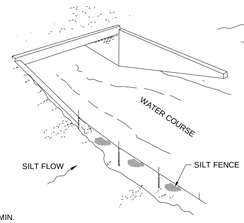
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



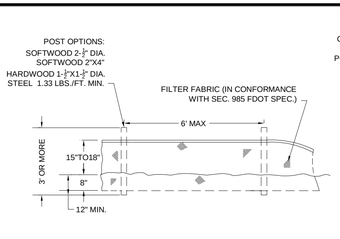
SYNTHETIC BALES OR BALE TYPE BARRIERS FOR PAVED DITCHES



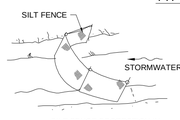
SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES



SILT FENCE APPLICATIONS

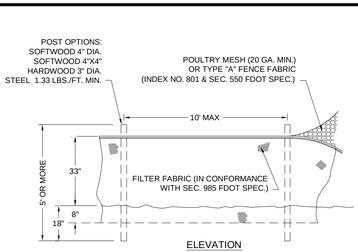


TYPE III SILT FENCE

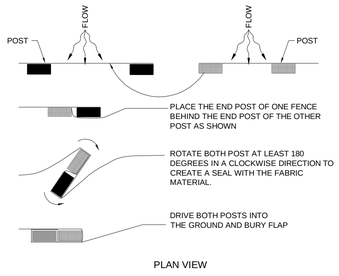


SILT FENCE PROTECTION IN DITCHES WITH INTERMITTENT FLOW

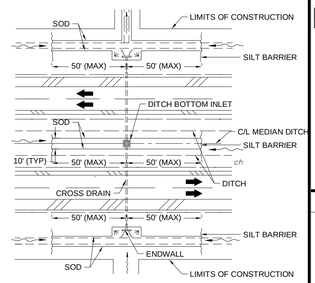




TYPE IV SILT FENCE



JOINING TWO SILT FENCES

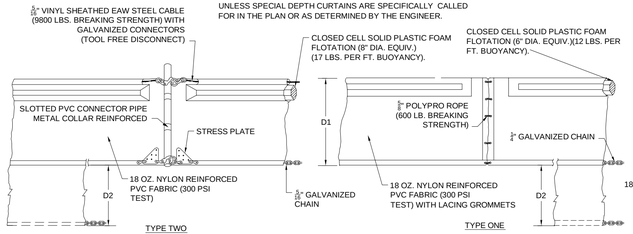


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS

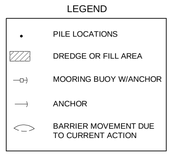
NOTE: NOT ALL NOTES, DETAILS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT

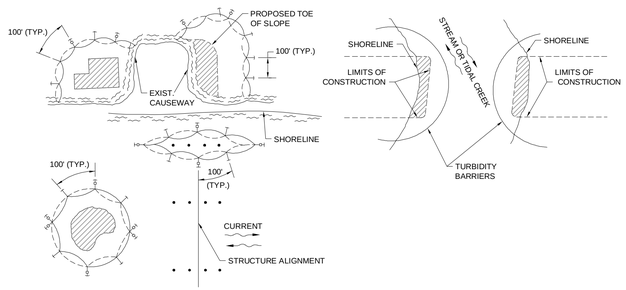
D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS GREATER THAN 5') CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS ARE SPECIFICALLY CALLED FOR IN THE PLAN OR AS DETERMINED BY THE ENGINEER.



NOTICE:
COMPONENTS OF TYPE ONE AND TWO MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT OF THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ONE AND TWO SHALL BE AS APPROVED BY THE ENGINEER.

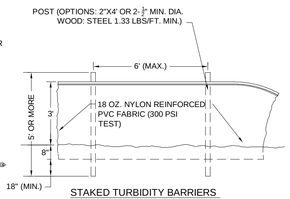
FLOATING TURBIDITY BARRIERS



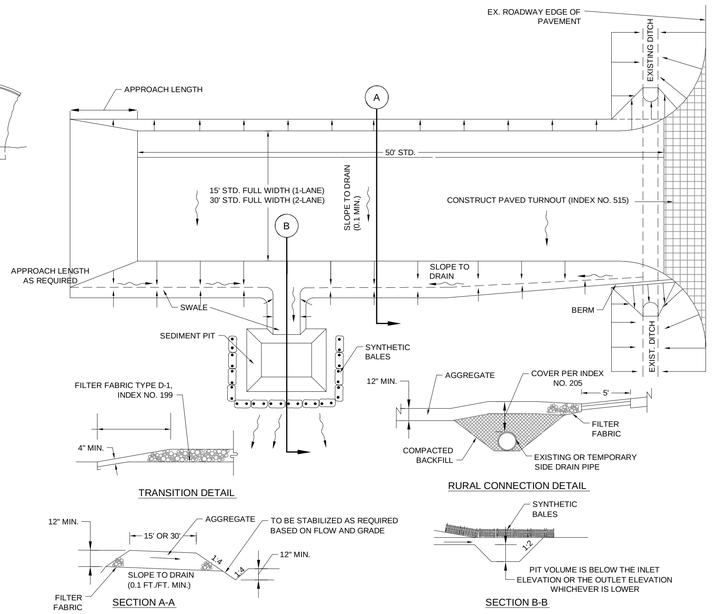


TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS



STAKED TURBIDITY BARRIERS



SOIL TRACKING PREVENTION DEVICE - TYPE "A"

EROSION CONTROL NOTES:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
2. THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTORS MEANS, METHODS AND TECHNIQUE OF CONSTRUCTION. IT IS RECOMMENDED THAT THE CONTRACTOR COMPLY WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS SECTION 104 (PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION) AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (THE "E&SC MANUAL").
3. THE DETAILS ON THIS SHEET REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. THEY MAY NOT SATISFY ALL REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND / OR SPECIFIC PERMIT CONDITIONS AND ALL MAY NOT APPLY TO THIS PROJECT.
4. THE CONTRACTOR AND/OR OWNER SHALL VERIFY THAT THE RESPONSIBLE ENTITY HAS OBTAINED A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) / F.D.E.P. AND LOCAL REGULATORY AGENCY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CREATE, IMPLEMENT AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN AS REQUIRED BY THE N.P.D.E.S. GENERAL PERMIT.
5. AREAS LOCATED ADJACENT TO WETLAND / UPLAND PRESERVE AREAS SHALL BE STABILIZED WITH SOD (OR AS CALLED FOR ON DETAILED PLANS) IMMEDIATELY UPON ACHIEVING FINAL GRADE.
6. EROSION CONTROL DEVICES WILL BE INSTALLED ALONG THE BOUNDARY OF THE CONSERVATION AREAS, PRESERVES AND/OR WETLAND AREAS PRIOR TO CONSTRUCTION. THESE DEVICES SHALL BE SILT SCREENS AND, IF NECESSARY, SYNTHETIC BALES. THESE DEVICES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE ADJACENT CONSTRUCTION ZONES ARE ESTABLISHED.
7. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL METHODS UPON COMPLETION OF SOIL STABILIZATION FOR THE PROJECT. AT THAT TIME THE RESPONSIBLE ENTITY SHALL FILE AN N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN NOTICE OF TERMINATION WITH THE F.D.E.P.
8. DURING CONSTRUCTION, INLET OPENINGS, WHERE APPROPRIATE, SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM FALLING INTO THE INLET.
9. CONTRACTOR SHALL UTILIZE APPROPRIATE METHODS TO CONTROL WIND EROSION AND DUST. ALL AREAS SHALL BE STABILIZED AS NECESSARY TO CONTROL EROSION WITHIN 7 DAYS OF FINAL GRADING.
10. FOR ADDITIONAL EROSION CONTROL DETAILS NOT SHOWN ON THIS PLAN, SEE F.D.O.T. ROADWAY STANDARDS INDEX DRAWINGS.

CONTRACTOR RESPONSIBILITIES:

1. PREPARE AND SIGN A NOTICE OF INTENT FORM (N.O.I.) AND SUBMIT TO THE REGULATORY AGENCY ALONG WITH ANY REQUIRED FEES AND ATTACHMENTS, OR ASSURE THAT AN N.O.I. HAS BEEN FILED AS REQUIRED.
2. IMPLEMENT THE STABILIZATION, EROSION CONTROL AND OTHER REQUIREMENTS OF THE S.W.P.P.P / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
3. PROVIDE QUALIFIED INSPECTORS, AND DOCUMENTATION OF QUALIFICATIONS, FOR THE CONTROLS IMPLEMENTED AT THE JOB SITE.
4. CONDUCT ALL NECESSARY INSPECTIONS AT THE REQUIRED INTERVALS AND PREPARE AND RETAIN WRITTEN DOCUMENTATION OF THOSE INSPECTIONS AND ALL OTHER WRITTEN DOCUMENTATION REQUIRED BY THE GENERAL PERMIT.
5. KEEP A COPY OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, ALL N.O.I.'S, PERMIT CERTIFICATES; PERMIT LANGUAGE; SPILL PREVENTION, COUNTERMEASURES, AND CLEANUP ("S.P.C.C.") PLAN; INSPECTION RECORDS; AND OTHER REQUIRED RECORDS ON THE JOB SITE AND POST IN A PROMINENT PLACE NEAR THE JOB SITE ENTRANCE THOSE DOCUMENTS REQUIRED TO BE POSTED UNDER THE TERMS OF THE GENERAL PERMIT.
6. CONTRACTOR SHALL PROVIDE MONTHLY TRAINING SESSIONS FOR ALL ENTITIES AND SUBCONTRACTORS INVOLVED WITH INSTALLING, APPLYING, PERFORMING, MAINTAINING AND INSPECTION OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
7. UPDATE AND MAKE CHANGES TO THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND SUPPORTING DOCUMENTS (SUCH AS THE B.M.P.'S AND / OR S.P.C.C.) AS NEEDED AND WITH THE APPROVAL OF THE OPERATOR AND THE OPERATOR'S ENGINEER.
8. PREPARE AND SIGN A NOTICE OF TERMINATION (N.O.T.) FORM WHEN SITE WORK CONSTRUCTION IS COMPLETED AND STABILIZATION IS ACHIEVED. TRANSFER THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN DOCUMENTS, ALONG WITH ALL N.O.I.'S, PERMIT CERTIFICATES, N.O.T.'S, AND WRITTEN RECORDS REQUIRED BY THE GENERAL PERMIT TO THE OPERATOR FOR ARCHIVING IN BOTH PAPER AND OPTICALLY-SCANNED FORMAT ON A CD.

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ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT BY	TIM GAVIN

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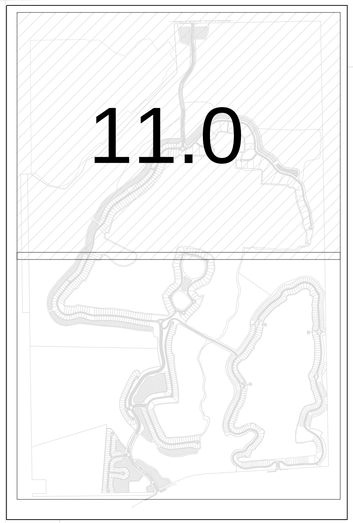
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS NOT FOR CONSTRUCTION

EROSION CONTROL DETAILS

PROJECT / FILE NO.	SHEET NUMBER
23416	10.0



KEY MAP
N.T.S.

ALICO ROAD

EX. LAKE CONTROL LINE

EX. LAKE

WILDBLUE PROPERTY BOUNDARY

LAKE A-1

LAKE A-2

CONSERVATION AREA MITIGATION AREA GH

CONSERVATION AREA MITIGATION AREA AB

LAKE C-1

LAKE C-2

LAKE B-1

CONSERVATION AREA MITIGATION AREA CD

LAKE C-3

CONSERVATION AREA MITIGATION AREA AB

CONSERVATION AREA MITIGATION AREA I

CONSERVATION AREA MITIGATION AREA F

EX. WILDBLUE LAKE NORTH

LAKE D-1

WILDBLUE PROPERTY BOUNDARY

N

W E

S

0 200 400 800

SCALE IN FEET

LEGEND

- PROPOSED INLET PROTECTION
- SINGLE ROW SILT FENCE
- DOUBLE ROW SILT FENCE

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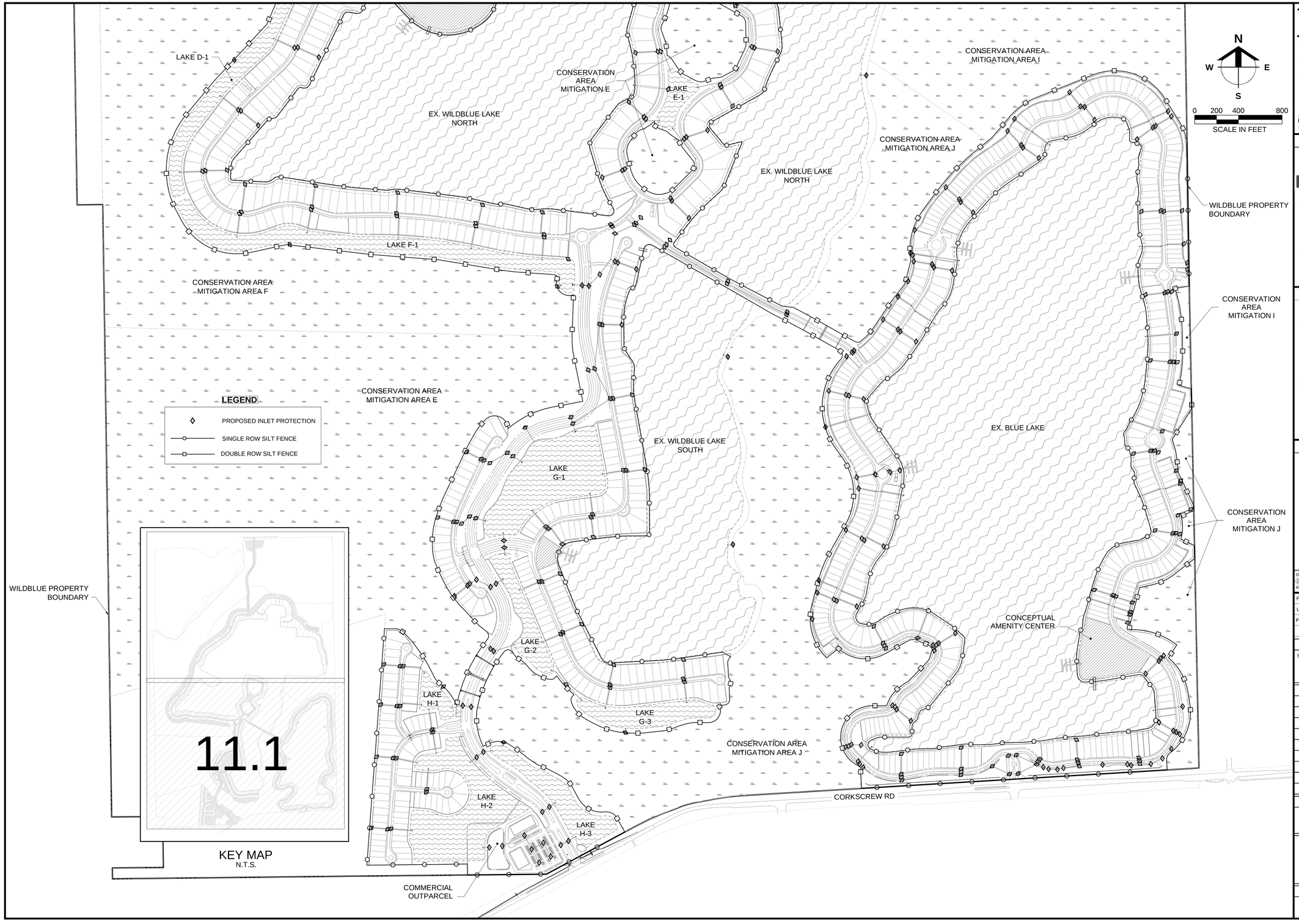
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

STORMWATER POLLUTION PREVENTION PLAN

PROJECT / FILE NO.	SHEET NUMBER
23473	11.0



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PROJECT DESCRIPTION

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LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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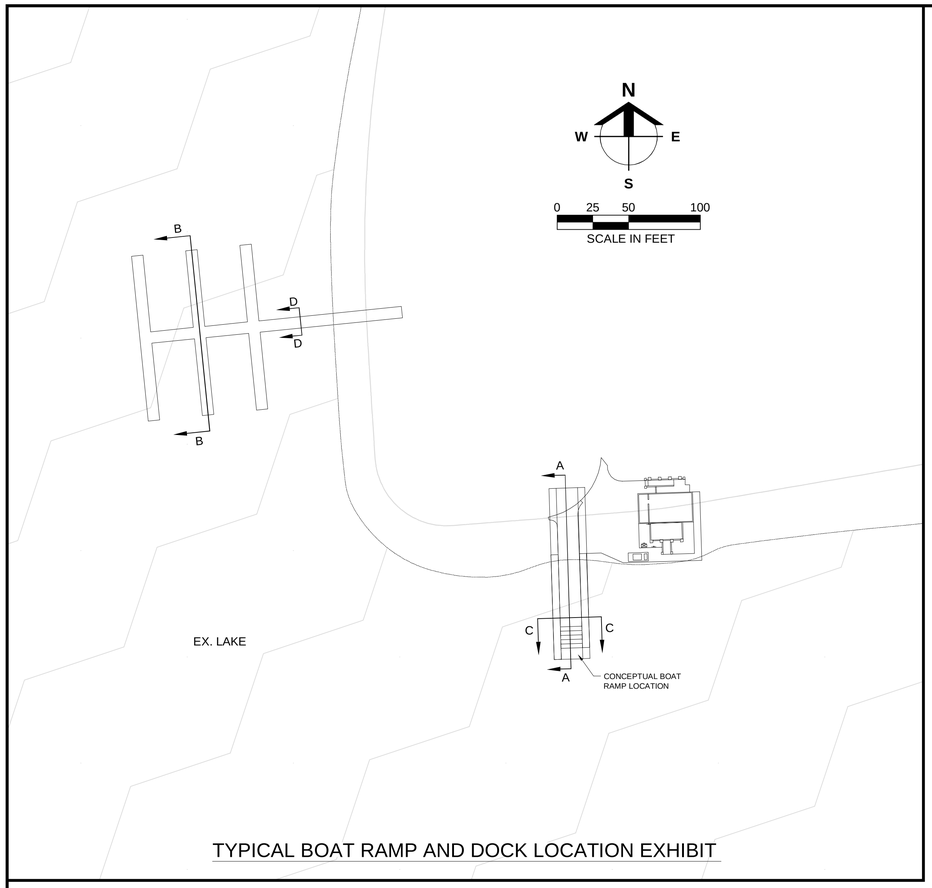
PLAN REVISIONS

PLAN STATUS

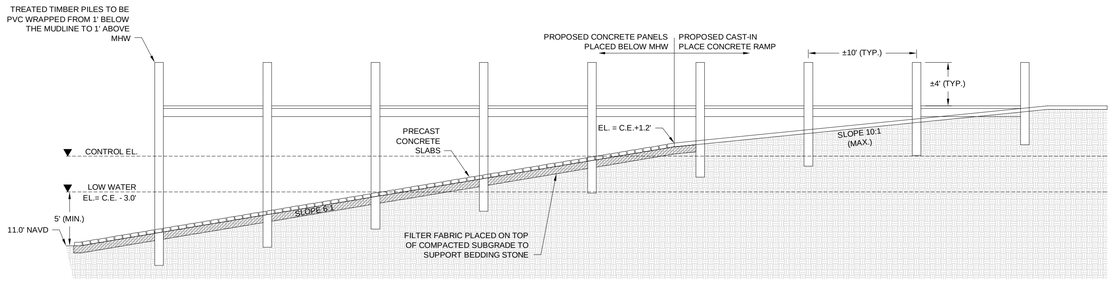
APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

STORMWATER POLLUTION PREVENTION PLAN

PROJECT / FILE NO.	SHEET NUMBER
23473	11.1

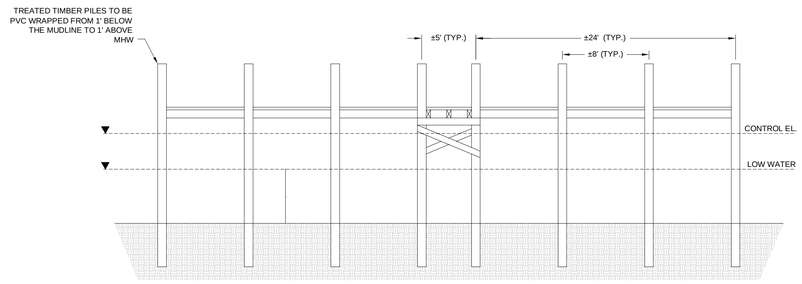


TYPICAL BOAT RAMP AND DOCK LOCATION EXHIBIT



TYPICAL BOAT RAMP A-A

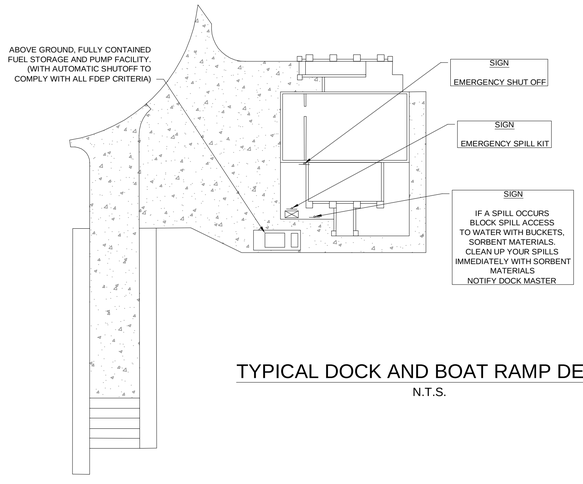
N.T.S.



TYPICAL FINGER DOCK B-B

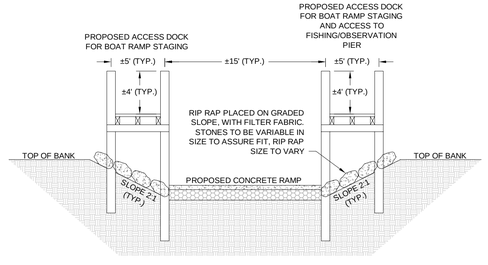
N.T.S.

NOTE: SEE MASTER SITE PLAN
FOR ALL CONCEPTUAL LOCATION



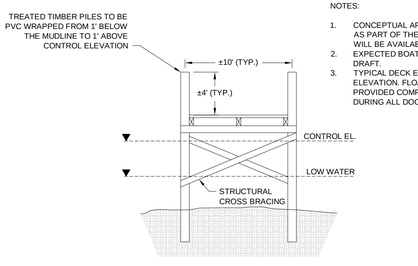
TYPICAL DOCK AND BOAT RAMP DETAIL

N.T.S.



TYPICAL BOAT RAMP C-C

N.T.S.



TYPICAL FINGER DOCK D-D

N.T.S.

NOTES:

1. CONCEPTUAL APPROVAL OF 150 COMMON DOCK SLIPS AS PART OF THE ONSITE AMENITY AREAS. THESE DOCKS WILL BE AVAILABLE FOR USE OF RESIDENTS.
2. EXPECTED BOATS ARE UNDER 25' IN LENGTH WITH 3' DRAFT.
3. TYPICAL DECK ELEVATION WILL BE 3' ABOVE CONTROL ELEVATION. FLOATING TURBIDITY CURTAIN SHALL BE PROVIDED COMPLETELY SURROUNDING WORK AREA DURING ALL DOCK CONSTRUCTION.

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PROJECT DESCRIPTION

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ENGINEER OF RECORD

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PLOT BY	TIM GAVIN

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SURVEY = 23372S00.DWG

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

CONCEPTUAL DOCK AND BOAT RAMP DETAILS

PROJECT / FILE NO.	SHEET NUMBER
23473	**12.0**

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN TEMPLATE

The following template may be used as a general guide for development of a Stormwater Pollution Prevention Plan (SWPPP) for construction activities. This template may not contain all applicable requirements for all construction sites. Please refer to the Department's Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Document 62-621.300(4)(a) to verify that you are meeting all permit requirements. Part V of the above referenced generic permit specifically lists requirements of the Stormwater Pollution Prevention Plan.

- The SWPPP shall be completed prior to the submittal of the Notice of Intent (NOI) to be covered under the Department's Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

- The SWPPP shall be amended whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for discharge of pollutants to surface waters of the state or a Municipal Separate Storm Sewer System (MS4). The SWPPP also shall be amended if it proves to be ineffective in significantly reducing pollutants from sources identified in Part V.D.1. of the permit. The SWPPP also shall be amended to indicate any new contractor and/or subcontractor that will implement any measure of the SWPPP. All amendments shall be signed, dated, and kept as attachments to the original SWPPP.

Stormwater Pollution Prevention Plan

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

_____ _____

Name (Operator and/or Responsible Authority) Date

Project Name and location information:	WildBlue Lat. 26 °28′ 14.90 ″ N Long. 81 °44 ′ 18.37″ W T 46 S, R 26 E, Sec. 7, 8, 18, 19, 20

A site map must be developed and must contain, at a minimum, the following information:

1. Drainage patterns,
2. Approximate slopes after major grading activities,
3. Areas of soil disturbance,
4. Outline all areas that are not to be disturbed,
5. Location of all major structural and non-structural controls,
6. The location of expected stabilization practices,
7. Wetlands and surface waters, and
8. Locations where stormwater may discharge to a surface water or MS4.

Site Description

Describe the nature of the construction activity:	Soil disturbing activities will include: Clearing and grubbing (Including exotic removal), mass earthwork (stockpile embankment), wetland & indigenous species plantings, removal of existing haul trails, installation of drainage culverts, sodding, seeding and mulching.
Describe the intended sequence of major soil disturbing activities:	The order of activities will be as follows: 1. Installation of erosion controls. 2. Clearing and grubbing (Including exotic removal) 3. Mass earthwork (stockpile embankment). 4. Removal of existing haul trails. 5. Installation of drainage culverts. 6. Wetland & Indigenous plantings 7. Stabilize areas within 7 days of last construction activity in that area. 8. Complete grading and install permanent seeding/sodding. 9. When all construction activity is complete and the site is stabilized, remove all temporary earthen berms, synthetic bale barriers and filter fences; re-seed any areas disturbed by their removal.
Total area of the site:	2,960.41 Acres
Total area of the site to be disturbed:	1,026.98+/- Acres
Existing data describing the soil or quality of any stormwater discharge from the site:	
Estimate the drainage area size for each discharge point:	See attached spreadsheet.
Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	See attached spreadsheet. Estero River
Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity	

identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the Florida Development Manual: A Guide to Sound Land and Water Management (DEP, 1988) and any subsequent amendments.
Silt Fence / Synthetic Bale Barrier - will be constructed along those areas of the disturbed area.
Temporary Stabilization: Disturbed portions of the site where construction activity will temporarily cease will be stabilized with temporary seed and mulch no later than 7 days from the last construction activity in that area. The seed shall be Bahia, millet, rye, or other fast-growing grasses. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place. Areas of the site which will be paved will be temporarily stabilized by applying limerock until pavement can be applied.
Permanent Stabilization: Disturbed portions of the site, where construction activities permanently cease, shall be stabilized with sod, seed and mulch, landscaping, and/or other equivalent stabilization measures (e.g., rip-rap, geotextiles) no later than 7 days after the date of the last construction activity. The sod shall typically be Bahia sod. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place.
Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.
Prior to significant clearing of the site, a temporary berm shall be constructed around the perimeter of the disturbed site. During clearing operations, the site itself shall act as the temporary sediment basin.

Describe in detail controls for the following potential pollutants

Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	Waste Materials: All waste materials will be collected and stored in a trash dumpster which will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in this dumpster. The dumpster will be emptied as required due to use and/or State

	and local regulations, with the trash disposed of at the appropriate landfill operation. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the construction office trailer. Hazardous Waste: All hazardous waste materials will be disposed of in the manner specified by local or State regulation or by the manufacturer. Site personnel will be instructed in these practices. Sanitary Waste: All sanitary waste will be collected from the portable units by a local, licensed, sanitary waste management contractor, as required by local or State regulation.
Offsite vehicle tracking from construction entrances/exits:	A stabilized construction entrance may be provided to help reduce vehicle tracking of sediments. Existing paved streets adjacent to the project will be swept as needed to remove any excess muck, dirt, or rock tracked from the site. Dump trucks hauling material from the site will be covered in tarpaulin.
The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Fertilizers will be applied by certified and licensed personnel only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
The storage, application, generation and migration of all toxic substances:	The following good housekeeping practices will be followed onsite during the construction project: • An effort will be made to store only enough product required to do the job.

	• All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure. • Products will be kept in their original containers with the original manufacturer's label. • Substances will not be mixed with one another unless recommended by the manufacturer. • Whenever possible, all of a product will be used up before disposing of the container. • Manufacturers' recommendations for proper use and disposal will be followed. The site superintendent will inspect to ensure proper use and disposal of materials onsite.
Other:	

Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.
These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls. • All control measures will be inspected at least once each week and following any storm event of 0.50 inches or greater. • All measures will be maintained in good working order; if a repair is necessary, it shall be corrected as soon as possible, but in no case later than 7 days after the inspection.

- Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and that the fence posts are firmly in the ground.
- Temporary seeding and permanent sodding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached.
- The Owner will appoint one individual who will be responsible for inspections, maintenance and repair activities, and for completing the inspection and maintenance reports.

Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

Inspections: Describe the inspection and inspection documentation procedures, as required by Part V.D.4. of the permit. Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater (see attached form).
Please see above.

Identify and describe all sources of non-stormwater discharges as allowed in Part IV.A.3. of the permit. Flows from fire fighting activities do not have to be listed or described.
N/A

This SWPPP must clearly identify, for each measure identified within the SWPPP, the contractor(s) or subcontractor(s) that will implement each measure. All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

Name	**Title**	**Company Name, Address**	**Date**

		and Phone Number	

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: WildBlue FDEP NPDES Stormwater Identification Number: FLR___

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective Action / Other Remarks

Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement

C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

_____ _____ _____

Name Qualification Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

* * * * * *

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

_____ _____

Name (Responsible Authority) Date

Discharge Area	
CS-A-1	19.4
CS-B-1 & 2	64.16
CS-C-1 & 2	100.67
CS-D-1 &2	60.68
CS-F-1 & 2	129.58
CS-G-1 & 2	106.81
CS-H-1 & 2	67.21
CS-WBLN-1 & 2	549.16
CS-WBLS-1 & 2	92.87
CS-BL-1, 2, & 3	231.65

Lat/Longs		
CS-A-1	26° 29' 31" N	81° 44' 16"W
CS-B-1	26° 28' 56" N	81° 44' 27" W
CS-B-2	26° 28' 46" N	81° 44' 37" W
CS-C-1	26° 29' 3" N	81° 44' 13" W
CS-C-2	26° 28' 52" N	81° 43' 49" W
CS-D-1	26° 28' 28" N	81° 44' 54" W
CS-D-2	26° 28' 15" N	81° 45' 5" W
CS-F-1	26° 27' 54" N	81° 45' 0" W
CS-F-2	26° 27' 53" N	81° 44' 37" W
CS-G-1	26° 27' 41" N	81° 44' 38" W
CS-G-2	26° 27' 12" N	81° 44' 23" W
CS-H-1	26° 27' 16" N	81° 44' 41" W
CS-H-2	26° 27' 12" N	81° 44' 34" W
CS-WBLN-1	26° 28' 19" N	81° 43' 42" W
CS-WBLN-2	26° 28' 10" N	81° 44' 2" W
CS-WBLS-1	26° 27' 45" N	81° 44' 15" W
CS-WBLS-2	26° 27' 29" N	81° 44' 15" W
CS-BL-1	26° 27' 55" N	81° 43' 57" W
CS-BL-2	26° 27' 38" N	81° 44' 6" W
CS-BL-3	26° 27' 27" N	81° 44' 6" W

URBAN STORMWATER MANAGEMENT PROGRAM

1.0 Introduction

This document provides details of the Urban Stormwater Management Program for **WildBlue** (Project Name) in **Estero, FL 33928** (location). This Plan discusses non-structural controls, intended to improve the quality of stormwater runoff by reducing the generation and accumulation of potential stormwater runoff contaminants at or near the respective sources for each constituent, along with significant structural components of the primary stormwater treatment system. Although many of the methodologies and procedures outlined in this document are general Best Management Practices (BMP's) which can be useful in attenuating pollutants in many types of urbanized settings, the implementation of these practices has been optimized, to the maximum extent possible, to reflect the unique character of the project and the surrounding hydrologic features.

Pollution prevention guidelines are provided for the areas of (1) nutrient and pesticide management; (2) street sweeping; (3) solid waste management; (4) operation and maintenance of the stormwater management and treatment system; (5) routine water quality testing; and (6) construction activities. A discussion of each of these activities is given in the following sections.

2.0 Nutrient and Pesticide Management

Nutrient and pesticide management consists of a series of practices designed to manage the use of fertilizers and pesticides so as to minimize loss of these compounds into stormwater runoff and the resulting water quality impacts on adjacent waterbodies. Implementation of a management plan will also maximize the effectiveness of the nutrients and pesticides that are applied.

Each homeowner must commit themselves to the practice of responsible and careful landscape design and maintenance of each lot to prevent contamination of surface waters. The guidelines included in this section are intended to help homeowners make educated environmental choices regarding the maintenance of individual yards within the community. These maintenance and management guidelines are meant to promote an attractive neighborhood that preserves the health of adjacent waterways and environmental features.

2.1 General Requirements

A landscape plan must be developed for each residence. The plan must be comprehensive in nature and follow the landscape design guidelines established by the Homeowners Association and must promote revegetation of each lot as quickly as possible.

Commercial applicators of chemical lawn products must register with the Homeowners Association annually and provide a copy of their current occupational license, proof of business liability insurance, and proof of compliance with applicable education and licensing requirements. Individual employees working under the direction of a licensed commercial applicator are exempt from the educational requirements.

Only registered commercial applicators and individual lot owners are permitted to apply chemicals within the property on a private lot. All chemical products must be used in accordance with the manufacturer's recommendations. The application of any chemical product within five (5) feet of any surface water including but not limited to ponds, lakes, drainage ditches or canals, is prohibited. The use of any chemical product in a manner that will allow airborne or waterborne entry of such products into surface water is prohibited. This rule shall not apply to the use of chemical agents, by certified lake management specialists, for the control of algae and vegetation within the stormwater lakes or ponds.

2.2 Nutrient Management Program

Management and application of nutrients and fertilizers in the Project will adhere to the following guidelines:

A. All fertilizers shall be stored in a dry storage area protected from rainfall and ponding.

B. No fertilizer containing in excess of 2% phosphate/phosphorus (P_2O_5) per guaranteed analysis label (as defined by Chapter 576, Florida Statutes) shall be applied to turf grass unless justified by a soil test.

C. Fertilizer containing in excess of 2% phosphate/phosphorus (P_2O_5) per guaranteed analysis label shall not be applied within 5 feet of the edge of water or within 5 feet of a drainage facility.

D. All fertilizer shall be applied such that spreading of fertilizer on all impervious surfaces is minimized.

E. Liquid fertilizers containing in excess of 2% phosphate/phosphorus (P_2O_5) per guaranteed analysis label shall not be applied thorough an irrigation system within 10 feet of the edge of water or within 10 feet of a drainage facility.

F. Liquid fertilizers containing in excess of 2% phosphate/phosphorus (P_2O_5) per guaranteed analysis label shall not be applied through high or medium mist application or directed spray application within 10 feet of the edge of water or within 10 feet of a drainage facility.

2.3 Pest Management Program

Proper maintenance of plants and turf areas will minimize the ability of pests to successfully attack landscaping. Several general guidelines follow:

A. Apply fertilizer and water only when needed and in moderate amounts. Excessive amounts of either can cause rapid growth that is attractive to insects and disease.

B. Mow St. Augustine grass to a height of 3-4 inches. If cut shorter, the plants may become stressed and more vulnerable to pest infestation. Each mowing should remove no more than one-third of the leaf blade, and those cuttings should remain on the lawn to decompose.

C. It is recommended that pesticides, fungicides, and herbicides be used only in response to a specific problem and in the manner and amount recommended by the manufacturer to address the specific problem. Broad application of pesticides, fungicides and herbicides as a preventative measure is strongly discouraged.

The use of pesticides, fungicides, or herbicides is limited to products that meet the following criteria:

A. Must be consistent with the USDA-NRCS Soil Rating for Selecting Pesticides

B. Must have the minimum potential for leaching into groundwater or loss from runoff

C. Products must be EPA-approved

D. The half-life of products used shall not exceed seventy (70) days

3.0 Street Sweeping

This practice involves sweeping and vacuuming the primary streets to remove dry weather accumulation of pollutants, especially particulate matter, before wash-off of these pollutants can occur during a storm event. This practice reduces the potential for pollution impacts on receiving waterbodies by removing particulate matter and associated chemical constituents. Although street cleaning operations are frequently conducted primarily for aesthetic purposes, the primary objective of the street sweeping program for the project is to improve the quality of stormwater runoff generated from impervious traffic areas. Street sweeping activities can be particularly effective during periods of high leaf fall by removing solid leaf material and the associated nutrient loadings from roadside areas where they could easily become transported within stormwater flow.

Street sweeping operations will be performed in the project at a minimum frequency of one event every other month. A licensed vendor using a vacuum-type sweeping device will perform all street sweeping activities. Sweeping activities during each event will include all primary street surfaces. Disposal of the collected solid residual will be the responsibility of the street sweeping vendor.

4.0 Solid Waste Management

In general, solid waste management involves issues related to the management and handling of urban refuse, litter and leaves that will minimize the impact of these constituents as water pollutants.

Maintenance of adequate sanitary facilities for temporarily storing refuse on private premises prior to collection is considered the responsibility of the individual homeowner. Local requirements for refuse collection will be brought to the attention of every homeowner at closing for the sale of the property. Information will be distributed as necessary stating specifications for containers, separation of waste by type, where to place containers prior to collection, and established collection schedules.

Fallen tree leaves and other vegetation, along with grass clippings, may become direct water pollutants when they are allowed to accumulate in swales and street gutters. All homeowners will receive periodic educational materials that address proper disposal of leaves and other vegetation to minimize water quality impacts.

5.0 Stormwater Management and Treatment System

The stormwater management system for the project is designed to maximize the attenuation of stormwater generated pollutants prior to discharge to the off-site wetland systems. Operational details and maintenance requirements of the various system components are given in the following sections.

5.1 Wet Detention Lakes and Lake Interconnect Pipes

The basic element of the stormwater management system consists of a series of interconnected wet detention ponds that provide stormwater treatment through a variety of physical, biological, and chemical processes. A wet detention pond acts similar to a natural lake by temporarily detaining stormwater runoff, allowing opportunities for treatment processes to occur, prior to slow controlled discharge of the treated water through the outfall structure. Pollutant removal processes in wet detention systems occur during the quiescent period between storm events. Significant removal processes include gravity settling of particulate matter; biological uptake of nutrients and other ions by aquatic plants, algae and microorganisms; along with natural chemical flocculation and complexation processes. In addition, each pond will be equipped with an Aeration System to help increase the biological function of the stormwater management system.

Maintenance of the wet detention ponds will consist of an annual inspection. During each annual inspection, the following items will be reviewed and corrected as necessary:

A. Inspect the outfall structure and orifices to ensure free-flowing conditions and overall engineering stability of the outfall system.

B. Review the banks of the lakes and canals to ensure proper side slope stabilization and inspect for signs of excessive seepage that may indicate areas of excessive groundwater flow and possible subsurface channeling.

C. Physically evaluate each of the lakes and canals for evidence of excessive sediment accumulation or erosion.

D. Inspect the planted aquatic vegetation in the littoral zone to ensure that the desired vegetation species, percent coverage, and density are maintained.

E. Visually Inspect Lake Aeration systems to insure that the blowers are functioning properly, the supply tubing remains submerged with no leaks, and the diffusers are producing uniform bubbles.

At the completion of the inspections, a written inspection report will be prepared, listing any deficiencies that need to be addressed or corrected by the Homeowners Association.

5.2 Stormwater Inlets, Pipes and Culverts

The grates should be unobstructed and the bottom, inside the inlet, should be clean. Check for any accumulation of sediment, trash such as garbage bags, or debris in the culverts connecting these inlets. Flushing out with a high-pressure hose may clean some sediment. Any noted blockage (due to a possible obstruction, or broken pipe, etc.) should prompt further investigation. Crushed or corroded culverts should be replaced with new ones of the same size.

5.3 Swales and Grassed Water Storage Areas

These provide for conveyance and/or above-ground (or surface) storage of stormwater. With age, these areas usually fill in with vegetation and sediment. Swales may need to be regraded and/or re-vegetated. It is a good idea to compare the existing slope and dimensions of the swale with the permitted design plans prior to the removal of excess sediment or regrading. Areas that show erosion should be stabilized with appropriate material such as sod, planting, rock, sand bags, or other synthetic geotextile material.

Regular mowing of grass swales is essential. These areas also improve water quality by catching sediment and assimilating nutrients, and recharge the underground water table. Remove any undesirable exotic vegetation. Culverts underneath driveways should be checked for blockage, and, if necessary, flushed with a high-pressure hose. After a storm, swales may remain wet for an extended period of time. This is normal and the water will recede gradually.

5.4 Ditches or Canals

Fill material, yard waste, clippings and vegetation, sediment, trash, appliances, garbage bags, shopping carts, tires, cars, etc. should be completely removed. Also check to make sure there are no dead trees or any type of obstructions which could block the drainage flow way.

Maintenance cleaning/excavation must be limited to the same depth, width and side slope as approved in the current permit. Making a ditch deeper or wider may trigger a need for a permit modification. Provisions must also be made to prevent any downstream silting or turbidity *(Contact the SFWMD Resource Compliance staff if you are unsure or need*

clarification.) Be sure to dispose of all removed material properly so it won't affect any other water storage or conveyance system, environmental area, or another owner's property.

5.5 Outfall Structure (also called the Discharged Control Structure or Weir)

The outfall structure should be routinely inspected to determine if any obstructions are present or repairs are needed. Trash or vegetation impeding water flow through the structure should be removed. The structure should have a "baffle" or trash collector to prevent flow blockage and also hold back any floating oils from moving downstream. Elevations and dimensions should be verified annually with all current permit information. Periodic inspections should then be regularly conducted to make sure these structures maintain the proper water levels and the ability to discharge.

5.6 Earthen Embankments (Dikes and Berms)

Check for proper elevations, width and stabilization. Worn down berms - especially if used by all-terrain vehicles or equestrian traffic - and rainfall - created washouts should be immediately repaired, compacted and re-vegetated.

6.0 Construction Activities

A Stormwater Pollution Prevention Plan (SWPPP) has been prepared for construction activities to minimize activities contamination that may be caused by erosion and sedimentation during the construction process. The plan includes provisions related to soil stabilization, structural erosion controls, waste collection disposal, offsite vehicle tracking, spill prevention and maintenance and inspection procedures. A copy of the SWPPP is attached hereto and made a part of hereof.

South Florida Water Management District

Work Schedule Requirements

Application No : 180713-10

Mitigation Plan ID: WILDBLUE

Activity	Due Date
EXOTIC VEGETATION REMOVAL (PHASE GH)	30-SEP-18
EXOTIC VEGETATION REMOVAL (PHASE AB)	31-OCT-18
EXOTIC VEGETATION REMOVAL (PHASE CD)	31-OCT-18
SUBMIT TIME ZERO MONITORING REPORT (PHASE GH)	30-NOV-18
SUBMIT ORIGINAL FINANCIAL ASSURANCE DOCUMENTATION (PHASE F)	31-DEC-18
SUBMIT ORIGINAL FINANCIAL ASSURANCE DOCUMENTATION (PHASE CD)	28-FEB-19
EXOTIC VEGETATION REMOVAL (PHASE F)	30-SEP-19
SUBMIT FIRST MONITORING REPORT (PHASE GH)	30-NOV-19
SUBMIT TIME ZERO MONITORING REPORT (PHASE F)	30-NOV-19
SUBMIT TIME ZERO MONITORING REPORT (PHASE AB)	31-DEC-19
SUBMIT TIME ZERO MONITORING REPORT (PHASE CD)	31-DEC-19
SUBMIT ORIGINAL FINANCIAL ASSURANCE DOCUMENTATION (PHASE E)	31-DEC-19
SUBMIT ORIGINAL FINANCIAL ASSURANCE DOCUMENTATION (PHASE AB)	28-FEB-20
EXOTIC VEGETATION REMOVAL (PHASE E)	30-SEP-20
SUBMIT FIRST MONITORING REPORT (PHASE F)	30-NOV-20
SUBMIT SECOND MONITORING REPORT (PHASE GH)	30-NOV-20
SUBMIT FIRST MONITORING REPORT (PHASE AB)	31-DEC-20
SUBMIT FIRST MONITORING REPORT (PHASE CD)	31-DEC-20
SUBMIT THIRD MONITORING REPORT (PHASE GH)	30-NOV-21
SUBMIT TIME ZERO MONITORING REPORT (PHASE E)	30-NOV-21
SUBMIT SECOND MONITORING REPORT (PHASE F)	30-NOV-21
SUBMIT SECOND MONITORING REPORT (PHASE AB)	31-DEC-21
SUBMIT SECOND MONITORING REPORT (PHASE CD)	31-DEC-21
SUBMIT FIRST MONITORING REPORT (PHASE E)	30-NOV-22
SUBMIT THIRD MONITORING REPORT (PHASE F)	30-NOV-22
SUBMIT FOURTH MONITORING REPORT (PHASE GH)	30-NOV-22
SUBMIT THIRD MONITORING REPORT (PHASE AB)	31-DEC-22
SUBMIT THIRD MONITORING REPORT (PHASE CD)	31-DEC-22
SUBMIT SECOND MONITORING REPORT (PHASE E)	30-NOV-23
SUBMIT FIFTH MONITORING REPORT (PHASE GH)	30-NOV-23
SUBMIT FOURTH MONITORING REPORT (PHASE F)	30-NOV-23
SUBMIT FOURTH MONITORING REPORT (PHASE CD)	31-DEC-23
SUBMIT FOURTH MONITORING REPORT (PHASE AB)	31-DEC-23

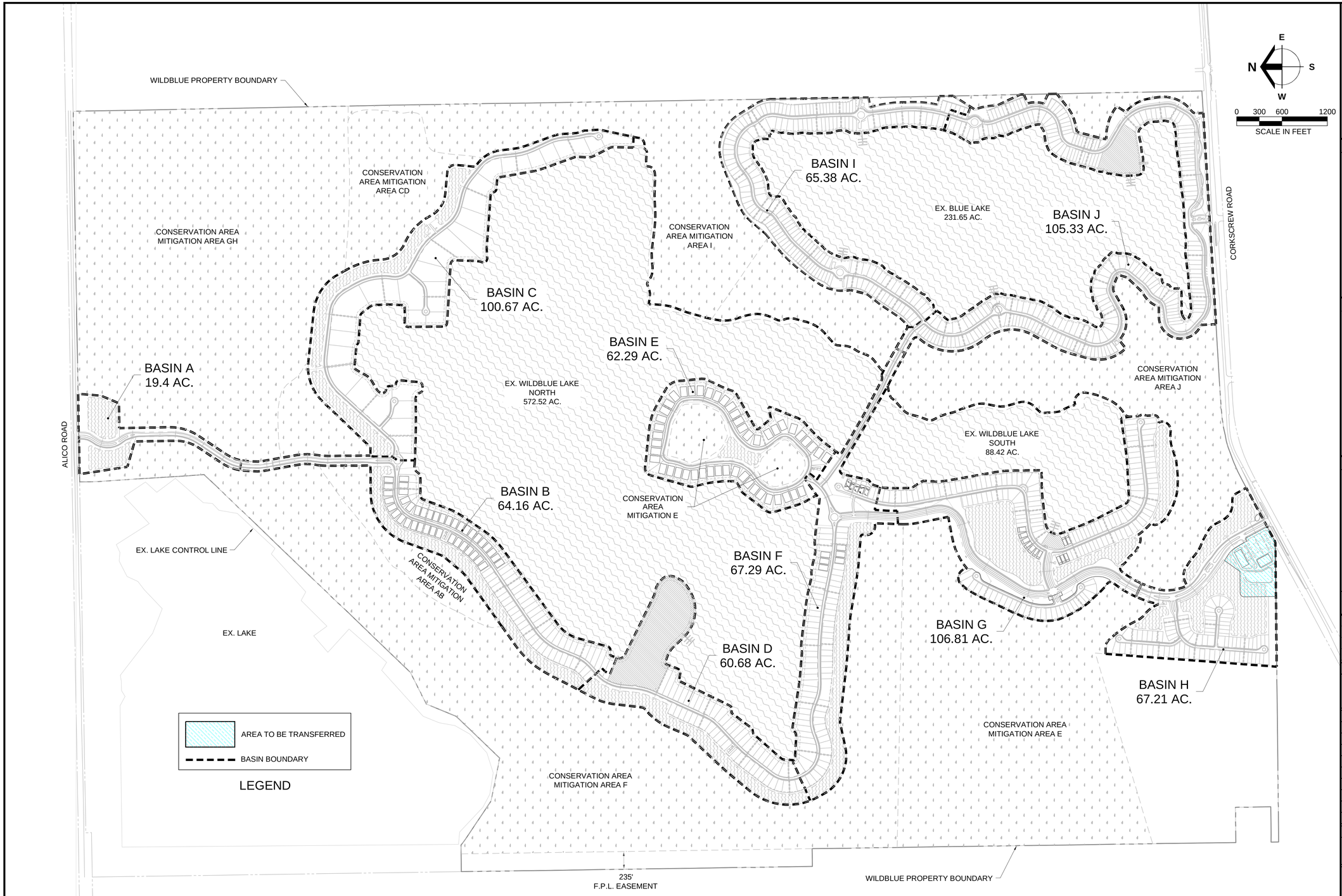
South Florida Water Management District

Work Schedule Requirements

Application No : 180713-10

WILDBLUE

Activity	Due Date
SUBMIT FIFTH MONITORING REPORT (PHASE F)	30-NOV-24
SUBMIT THIRD MONITORING REPORT (PHASE E)	30-NOV-24
SUBMIT FIFTH MONITORING REPORT (PHASE AB)	31-DEC-24
SUBMIT FIFTH MONITORING REPORT (PHASE CD)	31-DEC-24
SUBMIT FOURTH MONITORING REPORT (PHASE E)	30-NOV-25
SUBMIT FIFTH MONITORING REPORT (PHASE E)	30-NOV-26



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ENGINEERING 7995 - SURVEYING LB-6940

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ALICO EAST FUND, L.L.C.

12800 UNIVERSITY DRIVE
SUITE 275
FORT MYERS, FLORIDA 33907

PHONE (239) 590-9066
FAX (239) 590-9065

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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FILE NAME	23473-TRANSFER EXHIBIT-AEF.DWG
LOCATION	J:\23473\DWG\ERP\EXHIBITS\
PLOT DATE	TUE. 8-21-2018 - 8:30 AM
PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

SURVEY = 23372S00.DWG

PLAN REVISIONS

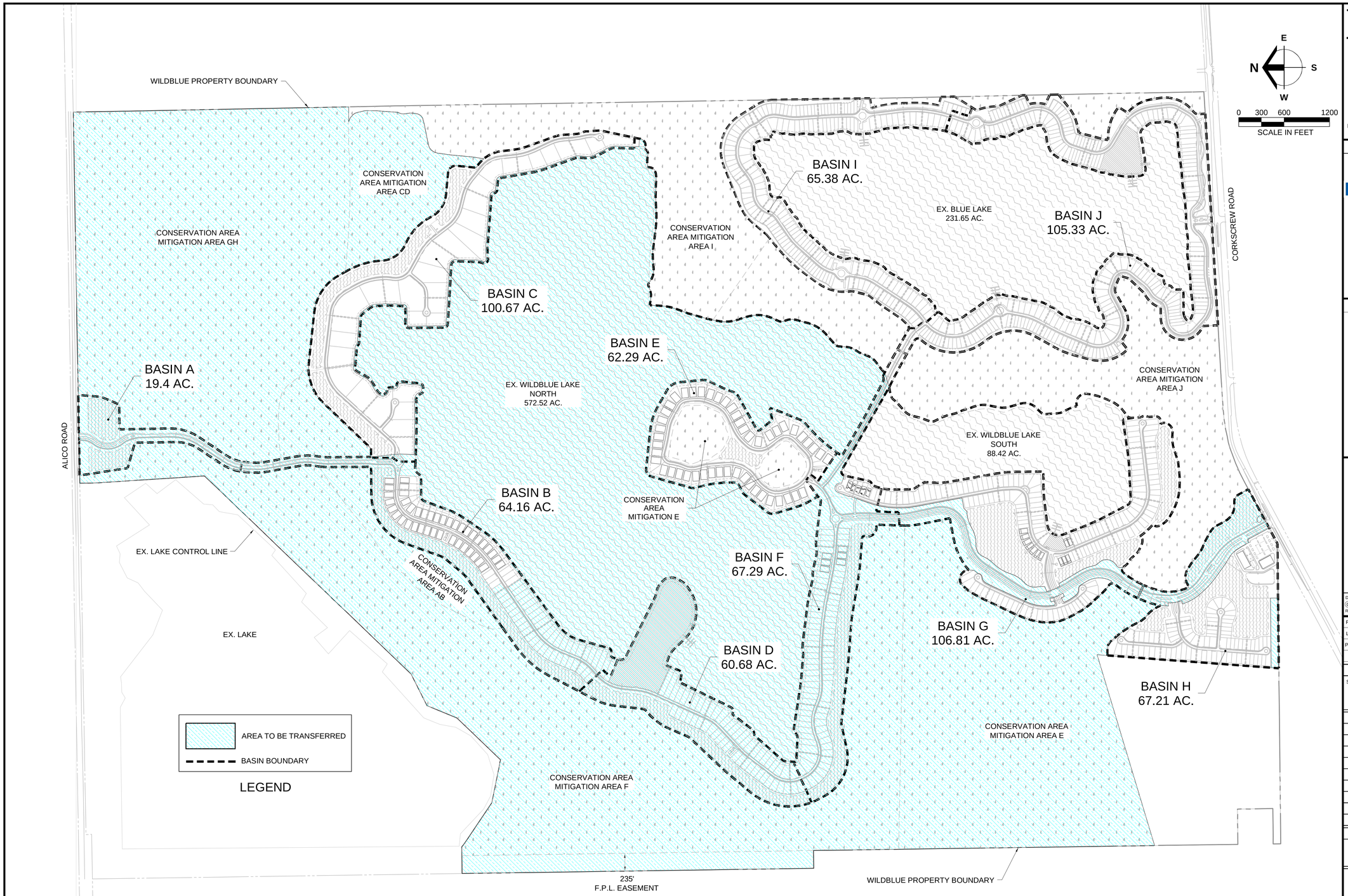
PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

OWNERSHIP TRANSFER EXHIBIT - AEF

PROJECT / FILE NO.	SHEET NUMBER
23473	EX

Exhibit 4.0
Application No. 180713-10



Barraco and Associates, Inc.
CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE DESIGN
www.barraco.net
2271 McGREGOR BLVD., SUITE 100
POST OFFICE DRAWER 2800
FORT MYERS, FLORIDA 33902-2800
PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

LENNAR

LENNAR HOMES
10481 BEN C. PRATT / SIX MILE
CYPRESS PARKWAY
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

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FILE NAME	23473-TRANSFER EXHIBIT-LENNAR.DWG
LOCATION	J:\23473\DWG\ERP\EXHIBITS\
PLOT DATE	TUE. 8-21-2018 - 8:43 AM
PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

SURVEY = 23372S00.DWG

PLAN REVISIONS

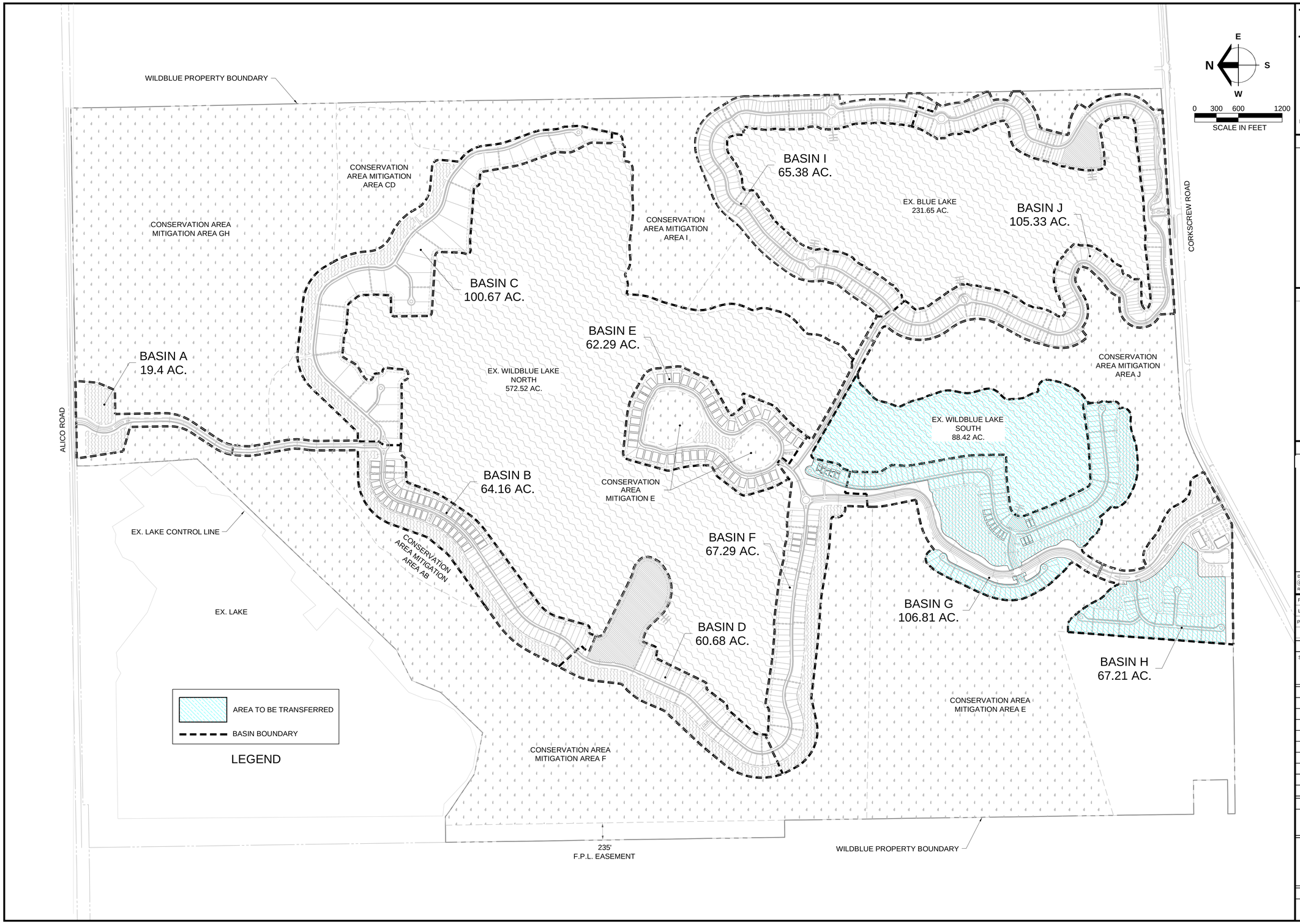
PLAN STATUS

APPROVAL SUBMITTALS PLANS
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OWNERSHIP TRANSFER EXHIBIT - LENNAR

PROJECT / FILE NO.	SHEET NUMBER
23473	EX

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Application No. 180713-10



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ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

PULTE HOME CORPORATION
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SUITE 300
BONITA SPRINGS, FLORIDA 34134
PHONE (239) 498-7711
FAX (239) 498-7707
WWW.PULTEHOMES.COM

PROJECT DESCRIPTION

WILDBLUE

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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FILE NAME	23473-TRANSFER EXHIBIT-PULTE.DWG
LOCATION	J:\23473\DWG\ERP\EXHIBITS\
PLOT DATE	TUE. 8-21-2018 - 8:47 AM
PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

SURVEY = 23372S00.DWG

PLAN REVISIONS

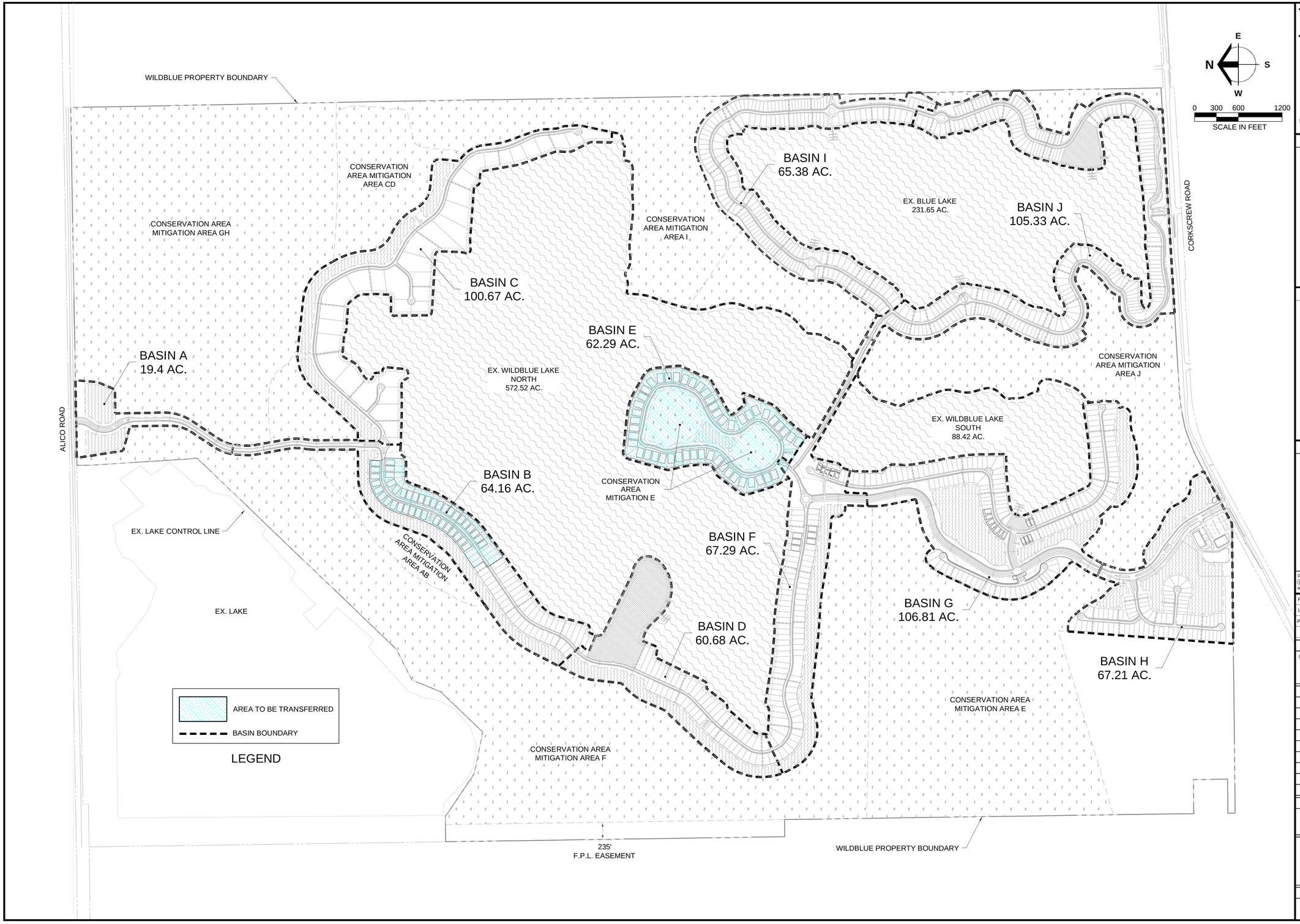
PLAN STATUS

APPROVAL SUBMITTALS PLANS
NOT FOR CONSTRUCTION

OWNERSHIP TRANSFER EXHIBIT - PULTE

PROJECT / FILE NO.	SHEET NUMBER
23473	EX

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PREPARED FOR

STOCK DEVELOPMENT

2647 PROFESSIONAL CIRCLE
SUITE 1201
NAPLES, FL 34119

PHONE (239) 592-7344
FAX (239) 592-7541

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

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FILE NAME	23473-TRANSFER EXHIBIT-STOCK.DWG
LOCATION	J:\23473\DWG\ERP\EXHIBITS\
PLOT DATE	TUE. 8-21-2018 - 8:25 AM
PLOT BY	TIM GAVIN

CROSS REFERENCED DRAWINGS

SURVEY = 23372S00.DWG

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS
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OWNERSHIP TRANSFER EXHIBIT - STOCK

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X Engr Consultant - Barraco And Associates Inc

GOVERNMENT AGENCIES

X Div of Recreation and Park - District 4 - Chris Becker, FDEP
X US Army Corps of Engineers Permit Section

OTHER INTERESTED PARTIES

X Audubon of Florida - Charles Lee