

MEMORANDUM

Date: 10-14-2025

To: Honorable Board of County Commissioners

From: Eileen Mastney, Zoning Coordinator

(Exhibit 1 - Professional Qualifications)

Subject: FP-19-06-08 Biscayne Landing North Bond Release

Request:

Lennar Homes, LLC, is requesting a Bond Release of the approved surety provided under Letter of Credit No. FGAC-22413, issued by Fidelity Guaranty and Acceptance Corp., in the amount of \$128,936.50 for the completion of the remaining second lift of asphalt for the subdivision named, Biscayne Landing North.

The subdivision, consisting of 141 lots was granted Final Plat approval by the Board of County Commissioners on September 23, 2022. The site contains 70.91± acres and is located east of Biscayne Drive, north of El Jobean Road, west of the Flamingo Waterway, south of Crofton Springs Way, and in Commission District IV.

At the time of Final Plat application, the applicant was granted approval of a Developer's Agreement (See Attachment 1) and surety in the amount of \$1,725,648.47, to ensure the completion of the plat infrastructure. On May 15, 2024, the applicant requested a bond reduction and First Amendment to the Developer's Agreement, which was approved on September 10, 2024, and recorded on September 12, 2024, to reduce the amount of the Security from \$1,725,648.47 to \$128,936.50, which was in place at time of this bond release request.

The Project Engineer has submitted this request for a bond release (See Attachment 2) and letter of substantial completion (See Attachment 3), along with the FDEP potable water clearance (See Attachment 4), and FDEP wastewater clearance (See Attachment 5) as-built certification and request for conversion to operation phase (See Attachment 6) and record drawings (See Attachment 7). The Public Works Department has inspected the site, finding that the construction has been completed and is in substantial compliance with previously approved plans. The County Engineer agrees with the Bond Release (See Attachment 8).

If approved, Letter of Credit No. FGAC-22413, issued by Fidelity Guaranty and Acceptance Corp., will be released to the applicant.

Recommendation:

Community Development recommends approval of the requested Bond Release under Petition **FP-19-06-08**.

Exhibit 1 Professional Qualifications

Qualifications of Eileen Mastney

Eileen Mastney

Position: Zoning Coordinator

Time with Charlotte County: 3 months

Qualifications of Eileen Mastney Position: Zoning Coordinator Time with Charlotte County: 3 months. Position Summary & Experience:

I have worked as a Zoning Coordinator for Charlotte County Planning and Zoning Departments for 3months. My duties include administrative tasks, customer service, data entry, reviewing and processing projects, Vacations and Land Splits for compliance with Charlotte County Land Development regulations. Furthermore, I coordinate and compile the comments and conditions of the reviewing departments and agencies into the final recommendation to the Planning and Zoning Board and the Board of County Commissioners for the above applications. Exhibit 1

Attachment 1 Recorded First Amendment

Document prepared under the supervision of: Charlotte County Attorney 18500 Murdock Circle Port Charlotte, FL 33948 ROGER D. EATON, CHARLOTTE COUNTY CLERK OF CIRCUIT COURT # PAGE: 5

INSTR #: 3448795 Doc Type: AGR Recorded: 09/12/2024 at 11:37 AM Rec. Fee: RECORDING \$44.00

Charles Mann Pavese Law Firm 1833 Hendry Street Fort Myers, FL 33901

FIRST AMENDMENT TO DEVELOPMENT AGREEMENT

THIS FIRST AMENDMENT TO DEVELOPMENT AGREEMENT ("Amendment") is made this 10 day of September, 2024, by and between CHARLOTTE COUNTY, a political subdivision of the State of Florida, herein called "County", and LENNAR HOMES, LLC, a Florida limited liability company, with an address of 10481 Six Mile Cypress Parkway, Fort Myers, Florida 33966, herein called "Developer", and collectively referred to as "Parties."

WITNESSETH

WHEREAS, Developer previously subdivided certain property which includes the Property pursuant to that certain Plat of Biscayne Landing North, according to the plat thereof recorded in Plat Book 26, Pages 4A through 4I of the Public Records of Charlotte County, Florida, defined in the Development Agreement as the "Plat"; and

WHEREAS, in connection with the Plat, County and Developer entered into that certain Development Agreement recorded September 26, 2022 in Official Records Book 5052, Page 1765 of the Public Records of Charlotte County, Florida (the "Development Agreement"), pursuant to which Developer provided a letter of credit in an amount up to but not exceeding the aggregate amount of One Million Seven Hundred Twenty-Five Thousand Six Hundred Forty-Eight and 47/100 Dollars (\$1,725,648.47), defined in the Development Agreement as the "Security," to ensure completion of those subdivision improvements depicted on the Plans (the "Improvements"); and

WHEREAS, Developer asserts that construction of the Improvements has been substantially completed except for the second lift of asphalt; and

WHEREAS, the County has confirmed Developer's assertions regarding the status of the Improvements; and

WHEREAS, based on the above, Developer and County wish to amend the terms of the Development Agreement to reduce the amount of Security and extend the completion date of the Improvements, as further set forth herein; and

WHEREAS, the intent of the Development Agreement and this Amendment thereto is to provide the required financial assurances pursuant to the provisions of Section 3-7-65 of the Charlotte County Code of Laws and Ordinances, which is not intended to be construed as a development agreement under Chapter 163.3221, Florida Statutes.

NOW THEREFORE, in consideration of their respective undertakings hereunder, County and Developer agree as follows:

- 1. <u>Recitals</u>; <u>Definitions</u>. The foregoing recitals are true and correct and incorporated herein by this reference. Capitalized terms not defined herein shall have the meaning ascribed thereto in the Development Agreement.
- 2. Bond Requirement. Notwithstanding anything in the Development Agreement to the contrary, Developer shall provide a bond or letter of credit in the amount of One Hundred Twenty-Eight Thousand Nine Hundred Thirty-Six and 50/100 Dollars (\$128,936.50) to ensure completion of the Improvements. Said security shall remain in effect until final approval of the Improvements by the County. Upon certification by a licensed engineer that the Improvements have been completed in substantial compliance with the plans previously approved by the County, County shall release the Security and the Development Agreement shall terminate.
- 3. <u>Completion Date</u>. All Improvements as shown on the approved construction plans shall be completed per the approved construction plans to the reasonable satisfaction of the County engineer by December 31, 2024.
- 4. <u>Satisfactory Completion</u>. In the event that the Improvements are not satisfactorily completed within the specified time period in Section 3, or in the event that the County receives notification from the institution issuing the financial assurance that the Security will expire prior to the specified time period, it is expressly understood and acknowledged by the Parties that:
 - Notwithstanding any notice and cure requirement in the Development Agreement or this First Amendment, the County, may at its sole and absolute discretion, request and/or utilize the full amount of the bond.
 - In the event of litigation, no party, including, but not limited to, Developer, future lot owners, and successors and assigns, is entitled to an offset of damages in an amount equal to the posted Security funds.
 - iii. There are no intended third-party beneficiaries to the Agreement, and therefore, no third parties can or should rely on the Agreement and/or Security, including, but not limited to, future lot owners, and

successors and assigns.

- iv. Nothing herein shall be construed to create an obligation upon the County under Section 177.081, Florida Statutes, to voluntarily assume an obligation to perform any act of construction or maintenance under the Agreement and/or the Security.
- 5. Miscellaneous. This First Amendment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. It shall not be necessary for every party to sign each counterpart but only that each party shall sign at least one such counterpart. Except as modified hereby, the terms and conditions of the Development Agreement shall remain in full force and affect. In the event of a conflict between the terms and provisions of this First Amendment and the Development Agreement, the terms and provisions of this First Amendment shall control and be given effect.

[Signature pages to follow]

IN WITNESS WHEREOF, County and Developer have executed this First Amendment to Development Agreement on the date first above written.

CHARLOTTE COUNTY, a Political Subdivision of the State of Florida

ATTEST:

Roger D. Eaton, Clerk of the Circuit Court and Ex-officio Clerk of the Board of County Commissioners

By: Deputy Clark

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

Janette S. Knowlton, County Attorney

LR2024-0532

	LENNAR HOMES, LLC a Florida limited liability company 10481 Six Mile Cypress Pkwy. Fort Myers, Florida 33966				
- Stud	Ву. С. 200				
1 st Witness Signature	Authorized Signature Scott Edminos				
1st Witness Printed Name	Printed Name				
2nd Witness Signature	Vice President Title				
Jennifor M. Sheppund 2nd Witness Printed Name					
ACKNOWLEDGEMENT					
State of <u>FL</u> County of <u>tre</u>					
The foregoing instrument was acknowl presence or □ online notarization, this ☑ Scott Edwards, Vice President, who [☑ Is per as identification and die	sonally known to me or [] has produced				
My commission expires:	Nothing Public M. Sheprand				
(Notary Seal)	Printed name of Notary Public				
JENNIFER M. SHEPPARD MY COMMISSION # HH 154622 EXPIRES: November 16, 2025 Bonded Thru Natary Public Underwriters	Serial or commission number				

Attachment 2 Request for a Bond Release



Professional Engineers, Planners & Land Surveyors

October 13, 2025

Ms. Tara Prince Charlotte County Land Development 18400 Murdock Circle Port Charlotte, Florida 33948

RE: BISCAYNE LANDING NORTH

FP-19-06-08

BOND RELEASE REQUEST

Dear Ms. Prince,

On behalf of our client, Lennar Homes, LLC, please accept this letter as a formal request to release the current performance bond/letter of credit amounts for the above-referenced project based on the information enclosed.

The original bond/letter of credit amount was for \$1,725,648.47 and then a bond reduction was submitted in May 2024 to reduce the bond/letter of credit down to \$128,936.50

A site visit was conducted and the site was found to be constructed in substantial conformance to the approved plans.

Thank you for your consideration and should you have any questions or need additional information, please call.

Sincerely,

BANKS ENGINEERING

Clayton W. Rebol, P.E.

Vice President

Cc: file, Lennar Homes, LLC

S:\Jobs\42xx\4272\Documents\County\Bond Release\Biscayne Landing North\County_Bond Release Request Ltr.docx

Attachment 3 Letter of Substantial Completion



Professional Engineers, Planners & Land Surveyors

October 9, 2025

Charlotte County Community Development 18400 Murdock Circle Port Charlotte, Florida 33948

Reference: **BISCAYNE LANDING NORTH**

FP-19-06-08

LETTER OF SUBSTANTIAL COMPLETION

To Whom It May Concern:

I hereby certify that a visual site inspection was conducted on Wednesday, August 6, 2025, at the above-referenced site, and found the project to be constructed in substantial conformance with the approved construction plans.

Sincerely,

BANKS ENGINEERING

Clayton W. Rebol, P.E.

Vice President

Cc: File

Attachment 4 FDEP Potable Water Clearance



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis Governor

Jeanette Nuñez Lt. Governor

Shawn Hamilton Secretary

South District PO Box 2549 Fort Myers FL 33902-2549 SouthDistrict@FloridaDEP.gov

POTABLE WATER CLEARANCE - TOTAL

June 14, 2023

Lennar Homes, LLC Scott Edwards, Vice President 10481 Six Mile Cypress Parkway Fort Myers, FL 33966 scott.edwards@lennar.com

> Clearance Type: Total Charlotte County

Permit Number: 344279-066-DSGP PWS Name: Charlotte County Utilities

PWS ID: 5084100

Project Name: Biscayne Landing Phase II

Project Location: Section 10, Township 40S, Range 21E

Dear Scott Edwards:

This letter acknowledges receipt of the certification, dated May 18, 2023, for the subject water distribution system extension. The submitted information demonstrates the system extension has been constructed in accordance with the FDEP Permit Number above and related plans and materials and that satisfactory pressure and bacteriological tests were conducted in accordance with the AWWA standards. Based on the certification and satisfactory bacteriological results, the Department is clearing the system for service.

If you have any questions or comments regarding this total clearance, please contact Brian Eastham by telephone at (239) 344-5616 or by e-mail at Brian.Eastham@FloridaDEP.gov.

Sincerely,

Nolin Moon

Environmental Administrator

Florida Department of Environmental Protection

cc:

E. David Watson, P.E., Charlotte County Utilities, Utilities Director, <u>dave.watson@charlottecountyfl.gov</u> Clayton W. Rebol, P.E., Banks Engineering, <u>crebol@bankseng.com</u>

Attachment 5 Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System

From: no-reply@dep.state.fl.us

To: <u>Heather Polito</u>

Cc: SD_newapps@floridadep.gov; scott.edwards@lennar.com; dave.watson@charlottecountyfl.gov; dave.watson@charlottecountyfl.gov;

Clay Rebol; Heather Polito

Subject: Wastewater Notification Received - Facility ID: FL0040291

Date: Thursday, May 18, 2023 1:07:17 PM

Attachments: ATT00001.bin



FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 **Ron DeSantis**

Governor

Jeanette Nuñez

Lt. Governor

Shawn Hamilton

Secretary

Receipt for Notification Submission

May 18, 2023

Heather Polito

CHARLOTTE COUNTY UTILITIES - EASTPORT WWTP - FL0040291 3100 LOVELAND BLVD PORT CHARLOTTE, FL

This is to acknowledge that your Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System was received on **May 18, 2023**.

The form and supporting information fulfills the requirements to notify DEP the domestic wastewater collection/transmission system described below has been constructed in accordance with the associated DEP Permit Number and related plans and materials.

DEP may contact you for additional information. If you indicated substantial deviations and you do not hear from your district office, your project may be placed into service 10 days from the date of this letter. If you did NOT indicate substantial deviations and you do not hear from your district office, your project may be placed into service 3 days from the date of this letter.

This Clearance Notification Process does not relieve you from the responsibility of obtaining other permits or authorizations from other agencies (federal, state, city, etc.) that may be required for the project.

In support of your notification you provided the following information:

Construction Permit Number: 44274-475-DWC/CM
Project Name: Biscayne Landing Phase II

Project Location: 2039 Lorraine Drive, Port Charlotte, FL 33953

Permittee: Lennar Homes, LLC
Collection System Owner: Charlotte County Utilities

Treatment Facility: CHARLOTTE COUNTY UTILITIES - EASTPORT WWTP -

FL0040291

Clearance Type: Total Clearance

Submitter Indicated Substantial

Deviations?:

No

Substantial Deviations (when applicable):

Attachments:

File Description: FDEP Wastewater Cert

File Name: 4272 II FDEP Sewer Cert Sub 5-18-23.pdf

File Hash: 3d50e3bfb87ad45b02b125a232bf9cabc0e03be195765fc825b0c4e5a67bc818

All files related to your facility may be viewed at our Departmental Information Portal: https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FL0040291/facility!search Please allow up to three (3) business days for the above documents to appear.

Staff will notify you of any additional information that may be required to complete your notification.

The Office for your project is: South District

SD_newapps@floridadep.gov

Please contact this Office for any questions regarding your project.



Attachment 6 Request for Conversion to Operation Phase



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899 (352) 796-7211 or 1-800-423-1476 (FL only) WaterMatters.org

Bartow Office 170 Century Boulevard Bartow Florida 33830-77

Bartow, Florida 33830-7700 (863) 534-1448 or 1-800-492-7862 (FL only) Sarasota Office

78 Sarasota Center Boulevard Sarasota, Florida 34240-9770 (941) 377-3722 or 1-800-320-3503 (FL only) Tampa Office

7601 U.S. 301 North (Fort King Highway) Tampa, Florida 33637-6759 (813) 985-7481 or 1-800-836-0797 (FL only)

February 11, 2022

Biscayne Landing Homeowner's Association, Inc. Attn: Matthew Koratich 12734 Kenwood Lane, Suite 49 Fort Myers, FL 33907

Subject: Transfer to Operation Phase

Project Name: Biscayne Property
Permit No.: 43042512.001
Compliance No.: 419766
County: Charlotte
Sec/Twp/Rge: S10/T40S/R21E

Dear Mr. Koratich:

The request to transfer the subject permit to the operation phase has been approved. District staff have reviewed the submitted information and determined that the stormwater management system was in compliance at the time of our inspection. The District reserves the right to inspect the project in the future to ensure continued compliance with state law and District rules. The permit, approved drawings and other documents are available for viewing through the District's Application and Permit Search Tools at http://watermatters.org/wmiserp.

The subject permit contains a condition requiring periodic inspection and maintenance. The inspections are required every five (5) years. A record of each inspection (including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted) must be maintained, and must be made available to the District upon request. Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), Operation and Maintenance Inspection Certification available on the District's website, http://www.watermatters.org/permits/erp, describing the remedial actions taken to resolve the failure or deviation.

As outlined in Subsection 62-330.340, F.A.C., "A Permittee shall notify the Agency in writing within 30 days of a change in ownership or control of the entire real property, project, or activity covered by the permit. This notification can be submitted on Form 62-330.340(1) –Request To Transfer Permit available on the District's website, http://www.watermatters.org/permits/erp.

If you have questions, please contact Thomas Stevens, E.I. at the Bartow Service Office.

Sincerely,

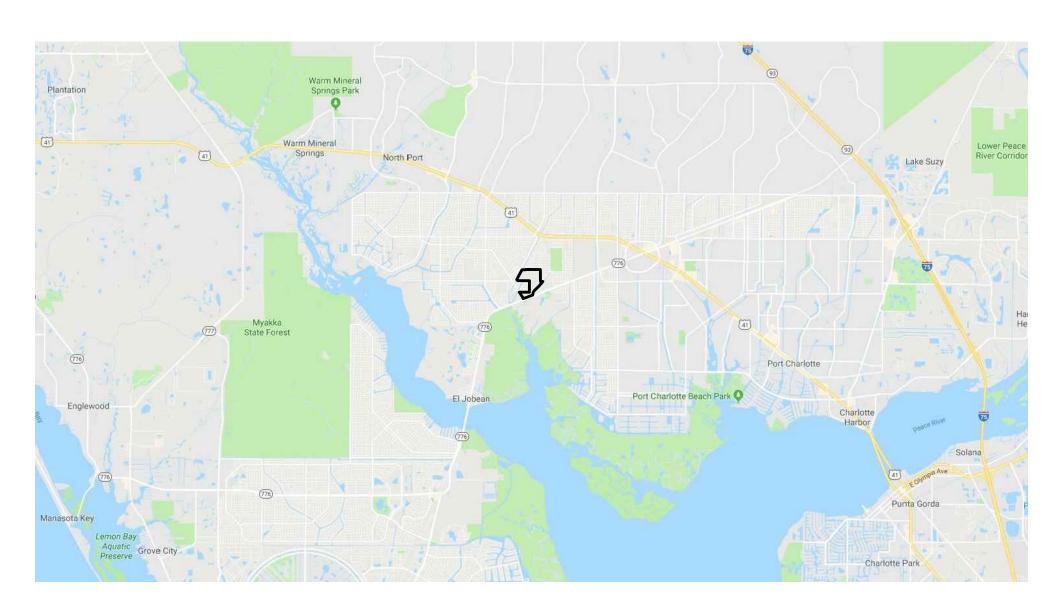
David Kramer, P.E. Bureau Chief Environmental Resource Permit Bureau Regulation Division

cc: Ryan W. Powers, P.E., Banks Engineering

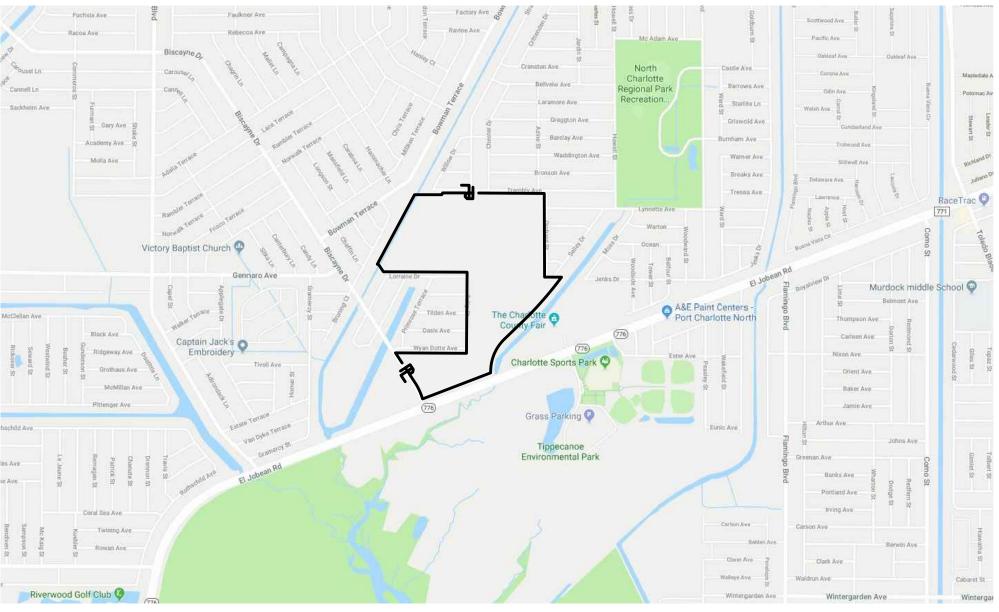
Attachment 7 As-Built Record Drawings

BISCAYNE LANDING

RECORD DRAWINGS



GENERAL LOCATION MAP



LOCATION MAP

SECTION 10, TOWNSHIP 40 SOUTH, RANGE 21 EAST CHARLOTTE COUNTY, FLORIDA

SITE INFORMATION

PROJECT AREA:

PARCEL STRAP NO.:

PARCEL ADDRESS:

CURRENT ZONING:
PROPOSED USE:

125.93 ACRES 402110477001 402115276001

2109 TULIP STREET PORT CHARLOTTE, FL 33953

PLANNED DEVELOPMENT (PD)

RESIDENTIAL SINGLE & MULTI-FAMILY

PREPARED FOR:

LENNAR HOMES, LLC 10481 SIX MILE CYPRESS PARKWAY FORT MYERS, FL 33966

PHONE: 239-931-4778

UTILITY SERVICE PROVIDERS

WATER: CHARLOTTE COUNTY UTILITIES

SEWER: CHARLOTTE COUNTY UTILITIES

ELECTRIC: FLORIDA POWER AND LIGHT

PHONE: CENTURYLINK

CABLE: COMCAST

FIRE PROTECTION:
CHARLOTTE COUNTY FIRE/EMS

SOLID WASTE DISPOSAL: WASTE MANAGEMENT

25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764-4300

25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764-4300

2245 MURPHY CT. NORTH PORT, FL 34289 PHONE: (800) 375-8490

4195 KINGS HIGHWAY

PORT CHARLOTTE, FL 33980 PHONE: (941) 637-5141 22266 EDGEWATER DRIVE PORT CHARLOTTE, FL 33980

PHONE: (941) 625-6000 26571 AIRPORT RD. PUNTA GORDA, FL 33982 PHONE: (941) 833-5600

25515 OLD LANDFILL ROAD PORT CHARLOTTE, FL 33980 PHONE: (941) 629-1106

PROJECT CONTACTS

CIVIL ENGINEER:

BANKS ENGINEERING RYAN W. POWERS, P.E. PROJECT MANAGER

I I PVEYOR.

SURVEYOR: BANKS ENGINEERING RICHARD M. RITZ, RLS

ENVIRONMENTAL:
IAN VINCENT & ASSOCIATES
IAN M. VINCENT

IAN M. VINCENT

LANDSCAPE ARCHITECT:
JOHN T. SWEN, P.A.

TRAFFIC ENGINEER:

JMB TRANSPORTATION ENGINEERING, INC.

JAMES M. BANKS, P.E.

4161 TAMIAMI TRAIL — BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625—1165

4161 TAMIAMI TRAIL — BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625—1165

4050 ROCK CREEK DRIVE PORT CHARLOTTE, FL 33948 PHONE: (941) 457-6272

P.O. BOX 494466 PORT CHARLOTTE, FL 33949 PHONE: (941) 626-7365

4711 7TH AVE SW NAPLES, FL 34119 PHONE: (239) 919–2767

Sheet List Table

Sheet Number Sheet Title

1 COVER SHEET

GENERAL NOTES & SPECIFICATIONS

3 PROJECT NOTES & LEGEND

4 AFRIAL

5 SITE DEVELOPMENT PLAN

A PHASING PLAN

6 MASTER PAVING, GRADING, & DRAINAGE PLAN

7 PAVING, GRADING, & DRAINAGE PLAN

8 PAVING, GRADING, & DRAINAGE PLAN

9 PAVING, GRADING, & DRAINAGE PLAN

10 PAVING, GRADING, & DRAINAGE PLAN

11 PAVING, GRADING, & DRAINAGE PLAN 12 PAVING, GRADING, & DRAINAGE PLAN

13 PAVING, GRADING, & DRAINAGE PLAN

14 STRUCTURE LIST

15 PAVING, GRADING, & DRAINAGE DETAILS

16 PAVING, GRADING, & DRAINAGE DETAILS
17 TYPICAL CROSS SECTIONS

17A TYPICAL CROSS SECTIONS

18 BEST MANAGEMENT PRACTICES PLAN

19 BEST MANAGEMENT PRACTICES DETAILS

BANKS

Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida

4161 TAMIAMI TRAIL — BLDG 5 UNIT 501
PORT CHARLOTTE, FLORIDA 33952
PHONE: (941) 625—1165 FAX: (941) 625—1149
ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690
WWW.BANKSENG.COM

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY RYAN W. POWERS, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

RYAN W. POWERS, P.E.

FL LIC. NO. 82437

RECORD DRAWING

I CERTIFY THAT THESE RECORD DRAWNES HAVE BEEN REVIEWED BY ME OR BY INDIVIDUAL(S) UNDER MY DIRECT SUPERVISION AND THAT THESE DRAWINGS INCORPORATE THE INFORMATION CONTAINED IN THE CERTIFIED AS—BUILTS. TO THE BEST OF MY KNOWLEDGE AND BELIEF THESE RECORD DRAWINGS SUBSTANTIALLY REFLECT THE UTILITY ASSETS AS CONSTRUCTED. THE ACCURACY OF THESE RECORD DRAWINGS IS RELIANT ON THE ACCURACY APPLIED BY THE SURVEYOR WHO CERTIFIED THE AS—BUILT DRAWINGS.

TO CONVERT ELEVATIONS INTO NGVD 1929:
+1.12 FEET CONVERSION FACTOR.

NO. DATE REVISION DESCRIPTION

ALL ELEVATIONS SHOWN ARE IN NAVD 88,

S:\JOBS\42XX\4272\ENGINEFRING\REC-DWG\SITE\4272 - 01 - CYR.DWG 8/5/2021 10:58 AM TODD

CONSTRUCTION SAFETY & LIABILITY:

THE CONTRACTOR MUST TAKE PROPER SAFETY & HEALTH PRECAUTIONS TO PROTECT THE WORK THE WORKERS, THE PUBLIC, & THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED & WORK PERFORMED UNTIL COMPLETION & ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE STATE OF FLORIDA ROADWAY & TRAFFIC DESIGN STANDARDS (LATEST EDITION). THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO PERSONS OR PROPERTY THAT OCCURS AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE. THE CONTRACTOR MUST SAVE HARMLESS & INDEMNIFY THE OWNER & THE ENGINEER OF RECORD, ITS OFFICERS, REPRESENTATIVES & EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, &/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENT ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR OR ANY SUBCONTRACTOR.

PRE-CONSTRUCTION:

THE OWNER SHALL SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY OF ALL COMPLETED IMPROVEMENTS. THE OWNER SHALL ALSO SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL ENGINEER TO PROVIDE THE APPROPRIATE SERVICES NEEDED IN ORDER TO CERTIFY TO ALL APPLICABLE REGULATORY AGENCIES THAT THE IMPROVEMENTS WERE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH ALL APPLICABLE PERMITS & APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, TESTING LAB, UTILITY COMPANIES, & APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALI PROJECT MATERIALS & COMPONENTS. THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED & APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER & UTILITY COMPANY SHALL ALSO DISCUSS ALL DOCUMENTATION REQUIRED FOR CONTRIBUTED FACILITIES TRANSFER FROM THE OWNER/DEVELOPER TO THE UTILITY COMPANY UPON PROJECT COMPLETION, UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FOLLOWING DOCUMENTS SHALL BE

DOCUMENTS REQUIRED FOR CONTRIBUTED FACILITIES FROM DEVELOPER TO UTILITY COMPANY: 1. UTILITY EASEMENT(S): MUST BE RECORDED AT COUNTY CLERK OF COURT OFFICE BEFORE

- SUBMITTING TO UTILITY EASEMENT ACKNOWLEDGEMENT.
- RELEASE OF LIEN.
- 6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER.
- RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED & SEALED BY ENGINEER OF RECORD, SUBMIT TWO REPRODUCIBLE COPIES OF PRINTS.
- 8. DETAILED COST OF CONSTRUCTION: MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST & TOTAL COST OF EACH. DO NOT INCLUDE WATER SERVICE LINES OR SEWER LATERALS.
- 9. DESCRIPTION OF FACILITIES: A SHORT EXPLANATION DEPICTING WHAT HAS BEEN CONSTRUCTED. 10. D.E.P. APPLICATION(S)
- 11. INSPECTION REPORT(S)
- PRESSURE TEST REPORT(S) 13. INFILITRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES & LAMPING
- 14. LIFT STATION INSPECTION (START-UP) REPORT(S) & EQUIPMENT SHOP DRAWINGS.
- 15. BACTERIOLOGICAL TEST REPORT(S). 16. ENGINEER'S CERTIFICATE OF SUBSTANTIAL COMPLETION TO D.E.P.
- 17. SYSTEM(S) ACCEPTANCE LETTER(S) FROM D.E.P. NOTES: ITEM 1-6 & 8 TO BE SUPPLIED BY OWNER. ITEMS 7 & 9-17 TO BE SUPPLIED TO ENGINEER OF RECORD.

UNLESS OTHERWISE SPECIFIED BY THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, & POWER COMPANIES, 10 DAYS IN ADVANCE, THAT THE CONTRACTOR INTENDS TO START WORK IN A SPECIFIC AREA, THE OWNER & ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT & PROTECTION OF SEWERS, DRAINS, WATER LINES. GAS LINES. CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT

THE CONTRACTOR SHALL PROVIDE & MAINTAIN A CONSTRUCTION PROJECT SIGN AT A LOCATION DIRECTED BY THE OWNER. BANKS ENGINEERING, INC. SHALL PROVIDE A SEPARATE SIGN FOR INSTALLATION BY THE CONTRACTOR AT THIS LOCATION. THESE SIGNS SHALL BE ERECTED WITHIN 15 DAYS AFTER RECEIVING A NOTICE TO PROCEED. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE THESE SIGNS & RETURN TO BANKS ENGINEERING, INC. THEIR SIGN.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION:

PROTECTION OF L& RESOURCES — EXCEPT IN AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE ABSENCE OF A CLEARING PLAN, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE.

PROTECTION OF WATER RESOURCES - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE & COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL COUNTY & MUNICIPAL LAWS CONCERNING POLLUTION OF WATER RESOURCES. ALL WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING

- EROSION & SEDIMENT CONTROL ALL PRACTICAL & NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL & PREVENT EROSION & THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR ONTO OTHER PROPERTY BY ANY OR
- ALL OF THE FOLLOWING METHODS: A. STORMWATER FACILITIES ARE TO BE BUILT AS EARLY IN THE CONSTRUCTION PHASE AS POSSIBLE TO ENSURE THE TREATMENT OF STORMWATER RUNOFF. TEMPORARY EROSION & SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, GRASSING, SODDING, SAND BAGGING, BALED HAY OR STRAW, FLOATING SILT ARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED & MAINTAINED UNTIL
- THE PERMANENT FACILITIES ARE COMPLETED & OPERATIONAL B. REVEGETATION & STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
- C. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED D. PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS EXCESSIVE AMOUNTS OF FUEL OIL, OR HYDRAULIC FLUID.
- 2. ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, EXCEPT RETENTION AREAS, & SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING & MULCHING ARE CALLED FOR ON THE PLANS. THE LATEST VERSION OF THE F.D.O.T. ROAD & BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST. CONTRACTOR RESPONSIBLE FOR STABILIZING & MAINTAINING SLOPES & SOD THROUGHOUT

CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

THE CONTRACTOR MUST AT ALL TIMES PERFORM ALL WORK IN A WAY & TAKE SUCH STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH & WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS & JURISDICTIONAL WETLANDS LOCATED WITHIN & / OR ADJACENT TO THE PROJECT AREA.

RECORDING & PRESERVING HISTORICAL & ARCHEOLOGICAL FINDS:

ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES MUST BE CAREFULLY PRESERVED. THE CONTRACTOR MUST LEAVE THE ARCHEOLOGICAL FIND UNDISTURBED & MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

1.01 SUBMITTALS A. EROSION & CONTROL MEASURES

B. COMPACTION TESTS C. SOIL CLASSIFICATION TESTS

D. PRESERVATION PLANS

1.02 SITE EXAMINATION

A. CONTRACTORS, BEFORE SUBMITTING BIDS, SHALL INFORM THEMSELVES AS TO LOCATION & NATURE OF THE WORK, CHARACTER OF EQUIPMENT & FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL & LOCAL CONDITIONS PREVAILING AT THE SITE, & OTHER MATTERS WHICH MAY IN ANY WAY, AFFECT THE WORK UNDER CONTRACT. B. EXAMINE SOURCES OF INFORMATION CONCERNING GROUND WATER LEVEL. WHETHER

SURFACE OR SUBSURFACE. EACH BIDDER TO DRAW HIS OWN CONCLUSION CONCERNING

GROUND WATER LEVELS & HOW WATER AFFECTS HIS WORK.

CALCULATED OR ANTICIPATED BY THE CONTRACTOR.

1.03 SUBSURFACE INVESTIGATIONS

A. SUBSURFACE DATA, INCLUDING GROUND WATER ELEVATIONS OR CONDITIONS, IF SHOWN ON THE DRAWINGS OR ATTACHED TO THESE SPECIFICATIONS, ARE PRESENTED ONLY AS INFORMATION THAT IS AVAILABLE WHICH INDICATED CERTAIN CONDITIONS FOUND & LIMITED TO THE EXACT LOCATIONS, SHALL NOT BE INTERPRETED AS AN INDICATION OF CONDITIONS THAT MAY ACTUALLY BE DEVELOPED THROUGH THE PERIOD OF CONSTRUCTION, BIDDERS SHALL EXAMINE THE SITE OF THE WORK & MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS & THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, & THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER & ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO & ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION. DRAWINGS. THE OWNER & ENGINEER ASSUME NO RESPONSIBILITY FOR CORRECTNESS OF

B. WHERE EXISTING GRADES, UTILITY LINES & SUBSTRUCTURES ARE SHOWN ON THE EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES & SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, & SHALL E RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR

C. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION & HE AGREES THAT THE CONTRACTOR WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEP SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD THE CONTRACTOR FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS

1.04 BENCHMARKS & MONUMENTS

A. MAINTAIN CAREFULLY EXISTING BENCH MARKS, MONUMENTS, & OTHER REFERENCE POINTS IF DISTURBED OR DESTROYED, REPLACE AS DIRECTED.

DEMOLISHED.

- A. CONDITION OF PREMISES: ACCEPT SITE AS FOUND & EXCAVATE, FILL, COMPACT, & BACKFILL SITE AS HEREINAFTER SPECIFIED. B. PROTECTION
- a. EXISTING STRUCTURES & PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES & FACILITIES; PROVIDE & PLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY & SUPPORT OF SUCH STRUCTURES: BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSED THEREBY OR RESULTING THEREFROM. IF AT ANY SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES & NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.
- b. SIDEWALKS & STREETS: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY SIDEWALKS, CURBS OR STREET PASSAGES ON ADJOINING SITE; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE; REPAIR PROMPTLY SUCH DAMAGE WHEN SO ORDERED; INSTALL SUCH SHORING, INCLUDING SHEET PILING, AS MAY BE REQUIRED DURING EXCAVATION, TO PROTECT BANKS, ADJACENT PAVING, STRUCTURES & UTILITIES.
- c. RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES OR TO EQUIPMENT & FURNISHINGS HOUSED THEREIN WHICH ARE DUE DIRECTLY OR INDIRECTLY TO CONSTRUCTION OPERATIONS, EXCEPT WHERE REMOVAL IS NECESSITATED BY SITE GRADING OR LOCATION OF NEW BUILDING. USE EVERY POSSIBLE PRECAUTION TO PREVENT INJURIES TO LANDSCAPING, DRIVES, CURBS & WALKS ON OR ADJACENT TO SITE OF THE WORK & REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

EXECUTION 2.01 GENERAL

- A. ACCOMPLISH IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC & WORKMEN & PROVIDE FOR THE PROTECTION OF ALL PROPERTY.
- B. CONSTRUCTION: DO NOT CLOSE, OBSTRUCT OR STORE MATERIAL OR EQUIPMENT IN STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT A PERMIT IN ACCORDANCE WITH LOCAL ORDINANCES, REGULATIONS & CODES. C. INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS,
- STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS & OTHER FACILITIES. D. PNEUMATIC TOOLS: WORK WITH PNEUMATIC OR VIBRATORY TOOLS WILL BE PERMITTED ONLY IN A MANNER WHICH CAUSES NO RELATED DAMAGES.
- E. REMOVAL: UNLESS OTHERWISE NOTED OR SPECIFIED TO BE RELOCATED OR STORED, ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR & ARE TO BE REMOVED COMPLETELY AWAY FROM THE SITE BY THE CONTRACTOR. DO NOT STORE OR
- PERMIT DEBRIS TO ACCUMULATE ON THE SITE. F. TEMPORARY STRUCTURES: REMOVE ALL TEMPORARY STRUCTURES WHEN THEY ARE NO LONGER REQUIRED
- G. REPAIR: CLEAN UP, REPAIR OR REPLACE AT NO COST TO OWNER ALL PROPERTY DAMAGED BY REASON OF REQUIRED WORK, ALL PATCHWORK SHALL MATCH EXISTING & E PERFORMED IN A NEAT & WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION & TEMPORARY MEASURE NECESSARY. TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREA. WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR & RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS & SLOPES AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS & DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.

2.02 LOCATIONS & ELEVATIONS

A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS & LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. LAY OUT LINES & GRADES FROM EXISTING SURVEY CONTROL SYSTEM & AS SHOWN ON DRAWINGS.

2.03 CLEARING & GRUBBING

A. WITHIN LIMITS OF AREA DESIGNATED FOR GRADING & SITE CONSTRUCTION WORK REMOVE TREES, BRUSH, STUMPS, WOOD, DEBRIS & OTHER DELETERIOUS MATERIALS NOT REQUIRED TO REMAIN AS PART OF FINISHED WORK. B. REMOVE ALL GRASS, PLANTS, VEGETATION & ORGANIC MATERIAL FROM SAME AREA.

A. STRIP ALL TOPSOIL ORGANIC MATERIAL SURFACE LITTER, RUBBLE & OVERBURDEN FOR ENTIRE DEPTH OF ROOT SYSTEM OF GRASS OR OTHER VEGETATION OVER THE LIMITS OF B. STOCKPILE TOPSOIL ON SITE WHERE DIRECTED.

REPARED FOR:

- A. BEGIN EXCAVATION AFTER STRIPPING, CLEARING & GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED.
- B. EXCAVATE TO GRADES REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. DEWATER AS NEEDED.
- C. REMOVE "UNSATISFACTORY MATERIALS" ENCOUNTERED FROM THE BUILDING AREAS, &
- OTHER NON-LANDSCAPED AREAS. D. EXCAVATE IN SUCH A MANNER THAT QUICK & EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
- E. CLASSIFY EXCAVATED MATERIALS & STOCKPILE SEPARATELY SUITABLE SOILS FOR USE AS BACKFILL MATERIALS. IF SUFFICIENT QUANTITIES OF EXCAVATED MATERIALS MEETING REQUIREMENTS FOR BACKFILL ARE NOT AVAILABLE ON SITE, PROVIDE MATERIALS MEETING THESE REQUIREMENTS. F. STOCKPILE EXCAVATED MATERIAL SUITABLE FOR USE AS FILL & BACKFILL.

2.06 FILLING, BACKFILLING & COMPACTING

A. THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING & COMPACTION OF SAID AREA TO LEVELS REQUIRED WITH SUITABLE BACKFILL MATERIAL B. MATERIALS: "SATISFACTORY FILL MATERIALS" AASHTO CLASSIFICATION A-3 OR BETTER SHALL BE USED IN FILLS & BACKFILLS.

C. FILLING & BACKFILLING: PLACE "SATISFACTORY FILL MATERIAL" IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH. COMPACT AS SPECIFIED HEREIN NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY.

D. COMPACTION: COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW DETERMINED IN ACCORDANCE WITH AASHTO T-180. INSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED

1.04 MATERIALS

1.05 EXECUTION

SECTION 712

A. STABILIZED SUBGRADE: PROVIDE 12 INCH STABILIZED SUBGRADE (LBR 40 MIN) COMPACTED

B. CONCRETE: CONCRETE FOR CONCRETE PAVEMENT SHALL HAVE A COMPRESSIVE STRENGTH

MODULES OR RUPTURE OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH

CONSTRUCTION OF ROADS & BRIDGES ON FEDERAL HIGHWAY PROJECTS, LATEST EDITION,

A. COMPLY WITH ACI STANDARD 316-74 & SECTION 350, FDOT STANDARDS & SPECIFICATIONS,

a. CONTRACTION JOINTS INDICATED ON DRAWINGS, OR AS REQUIRED SHALL BE PLACED PERPENDICULAR TO THE FINISH GRADE OF THE CONCRETE. JOINTS SHALL BE CUT T

A DEPTH OF 1/4 OF THE SLAB THICKNESS BY CUTTING WITH AN EDGING TOOL HAVING

A 1/4 INCH RADIUS OR BY SAWING WITH A BLADE PRODUCING A CUT NOT LESS THAN

FINISHING. EDGES SHALL BE ROUNDED WITH AN EDGING TOOL. JOINTS SHALL BE FULL

DEPTH OF CONCRETE EXCEPT THAT TOP EDGES SHALL BE 1/2 INCH BELOW THE FINISH

1/8 INCH IN WIDTH. SAW JOINTS WITHIN 4 TO 6 HOURS OF CONCRETE PLACEMENT.

REQUIRED, USING 1/2 INCH THICK PREFORMED EXPANSION JOINT MATERIAL ANCHOR

CONCRETE SURFACE. EXPANSION JOINTS SHALL BE SEALED TO THE SURFACE BY

FILLING WITH JOINT SEALING COMPOUND. JOINTS SHALL BE CLEAN & DRY BEFORE

c. CONSTRUCTION JOINTS ARE TO BE USED AT CONTRACTION JOINT LOCATIONS TO STOP

b. EXPANSION JOINTS SHALL BE PLACED WHERE INDICATED ON DRAWINGS, OR AS

E. CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE & MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A PIGMENTED LIQUID

F. CLEANING & SEALING JOINTS: JOINTS SHALL BE FILLED WITH JOINT-SEALING MATERIAL NO

G. TESTING: LABORATORY & FIELD TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. IN

CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING; OPERATION AT THE

LESS THAN 8 HOURS & WITHIN 2 WEEKS AFTER THOROUGHLY CLEANED OF ALL FOREIGN

a. DESIGN MIXES & TESTING REQUIREMENTS FOR THE CONCRETE PAVEMENT SHALL BE

SLUMP, MODULES OF RUPTURE & 7-& 20 DAY COMPRESSIVE STRENGTH TESTS

STRENGTH TEST & ONE FLEXURAL TEST FOLLOWING (ASTM C192 & ASTM C78) FOR

EACH 100 CUBIC YARDS OR FRACTION THEREOF PLACED PER DAY. NUMBER OF

CYLINDERS SHALL BE THREE FOR STRENGTH TEST & THREE FOR FLEXURAL TEST. TEST ONE AT THREE DAYS, ONE AT SEVEN DAYS & ONE AT 28 DAYS.

SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF

FLEXURAL STRENGTH TESTS OF CONCRETE AS BASIS FOR DESIGN

b. WHERE THE FLEXURAL STRENGTH OF THE CONCRETE IS SPECIFIED, MAKE ONE

A. WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN A NEAT

A. THE FOLLOWING PUBLICATIONS OF THE ISSUE LISTED BELOW, BUT REFERRED TO THEREAFTER

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.

2. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY

A. THERMOPLASTIC: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 & 971

B. PAINT: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 710 & 971 OF THE

A. TIME OF APPLICATION: PAINTING SHALL BE DONE ONLY DURING DAYLIGHT HOURS & AS FAR

B. WEATHER LIMITATIONS: NO PAINT SHALL BE APPLIED WHEN ANY MOISTURE IS PRESENT ON

PAINTING SHALL NOT BE DONE WHEN WINDS ARE SUFFICIENT TO CAUSE SPRAY DUST.

C. PREPARATION OF SURFACE TO BE PAINTED: THE SURFACE WHICH IS TO BE PAINTED SHAL

START OF PAINTING & SHALL BE CLEAN & DRY WHEN THE PAINT IS APPLIED. ANY

D. MIXING PAINT: THE PAINT SHALL BE THOROUGHLY MIXED BEFORE IT IS POURED INTO THE

ANY TIME. BEFORE THE START OF EACH DAY'S WORK THE PAINT CONTAINER, THE

OR PAINT SKIPS. ANY STRIPES WHICH DO NOT HAVE A UNIFORM, SATISFACTORY

F. RATE OF APPLICATION: THE MINIMUM RATE OF APPLICATION FOR PAINT SHALL BE AS

PAINTING MACHINE & NO THINNING OF THE PAINT IN THE MACHINE WILL BE ALLOWED AT

CONNECTIONS & THE SPRAY NOZZLES ON THE MACHINE SHALL BE THOROUGHLY CLEANED

PAINT APPLICATION: THE TRAFFIC MARKINGS SHALL BE OF THE SPECIFIED DIMENSIONS WITH

OF PAÍNT SHALL BE OBTAINED & THE FINISHED MARKINGS SHALL CONTAIN NO LIGHT SPOTS

CLEAN, TRUE EDGES & WITHOUT SHARP BREAKS IN THE ALIGNMENT. A UNIFORM COATING

2. ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF THE ABOVE.

3. HANDICAP LOGO: IN CONFORMANCE TO THE REQUIREMENTS OF THIS SECTION &

G. REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS

H. ALIGNMENT OF STRIPES: WHERE A STRIPE DEVIATES FROM THE CORRECT ALIGNMENT, AS

A. PROTECTION OF STRIPES: ALL NEWLY PAINTED STRIPES, OR OTHER MARKINGS, SHALL BE PROTECTED UNTIL THE PAINT IS SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THE

TRAFFIC OR FROM ANY OTHER CAUSE, SHALL BE REPAINTED AT THE CONTRACTOR'S

A. DIMENSIONS: NO MARKING SHALL BE LESS THAN THE SPECIFIED WIDTH. NO MARKINGS

B. CORRECTION RATES: ANY CORRECTIONS OF VARIATION IN THE WIDTH OF OR IN THE

A. ALL PAVEMENT MARKINGS WHICH FAIL TO MEET THE SPECIFICATIONS, INCLUDING THE PERMISSIBLE TOLERANCES & THE APPEARANCE REQUIREMENTS, OR ARE MARRED OR

DAMAGED BY TRAFFIC OR FROM OTHER CAUSES, SHALL BE CORRECTED AT THE

SHALL EXCEED THE SPECIFIED WIDTH BY MORE THAN $\frac{1}{2}$ INCH. ALIGNMENT TOLERANCES SHALL BE AS SPECIFIED IN 1.05—H.

ALIGNMENT OF STRIPES SHALL NOT BE MADE ABRUPTLY BUT THE STRIPES SHALL BE

RETURNED TO THE DESIGN WIDTH AT THE RATE OF AT LEAST 10 FEET FOR EACH ½ INCH.

CONTRACTOR'S EXPENSE. ALL DRIP & SPATTERED PAINT SHALL BE REMOVED. WHENEVER IT

S NECESSARY TO REMOVE PAINT IT SHALL BE DONE BY MEANS WHICH WILL NOT DAMAGE

THE UNDERLYING SURFACE OF THE PAVEMENT. WHEN NECESSARY TO CORRECT A DEVIATION

WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE

AFFECTED SHALL BE REMOVED & REPAINTED IN ACCORDANCE WITH THESE SPECIFICATIONS. B. CORRECTIVE DEVICES: MISALIGNMENT, DEFECTIVE SURFACES, ETC., SHALL BE CORRECTED BY CHEMICAL AGENTS, OR BY ANY OTHER TYPE OF MECHANICAL DEVICE WHICH WILL

EFFECTIVELY REMOVE THE PAINT WITHOUT DAMAGE TO THE PAVEMENT SURFACE, OR

B. REPAIR OF DAMAGED AREAS: ANY PORTION OF THE STRIPES DAMAGED BY PASSING

INDICATED BY THE STRING LINE, BY MORE THAN ONE INCH IN ANY 20 FOOT LENGTH, IT SHALL BE OBLITERATED & THE STRIPE CORRECTED HEREINAFTER AS SPECIFIED IN

AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT SUFFICIENT DRYING BY SUNSET.

IHE SURFACE TO BE PAINTED OR WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES F

BE CLEANED, BY COMPRESSED AIR OR OTHER EFFECTIVE MEANS, IMMEDIATELY BEFORE THE

VEGETATION OR LOOSE SOIL SHALL BE REMOVED FROM THE PAVEMENT BEFORE STRIPING IS

A. SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF FDOT SPECIFICATIONS & AS

BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT

B. ALL EQUIPMENT SHALL BE OF A TYPE & DESIGN WHICH WILL READILY OBTAIN THE

REQUIRED UNIFORMITY OF APPLICATION OF THE PAVEMENT MARKINGS BOTH AS TO

WITH APPROVED DEVICES TO PREVENT DISPLACEMENT DURING PLACEMENT &

B. FINAL GRADING: ALL CONCRETE PAVEMENT SHALL HAVE A MAXIMUM DEVIATION OF 1/8

C. THE SURFACE FINISH SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE. IN

INCH (PLUS / MINUS) FROM THE SPECIFIED SURFACE PLANE & PLAN GRADES.

GENERAL THE TEXTURE IS OF A MEDIUM BROOM FINISH AFTER FLOATING.

CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS & BRIDGES ON

OF 3000 PSI AT 28 DAYS. A SLUMP RANGE BETWEEN 2 TO 4 INCHES & A 28 DAY

C. JOINT SEALER: JOINT SEALING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR

D. PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER SHALL

TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180

FEDERAL HIGHWAY PROJECTS, LATEST EDITION, SECTION 712

TESTING SPECIFIED HEREINAFTER.

UNLESS OTHERWISE SPECIFIED HEREIN.

SEALING COMPOUND IS PUT IN PLACE.

RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET.

ADDITION, ALL RETESTING SHALL BE DONE AT CONTRACTOR'S EXPENSE.

MATERIAL INCLUDING ANY MEMBRANE CURING COMPOUND.

TWO PER ACRE

THICKNESS OF COATING & AS TO ALIGNMENT.

INDICATED BY THE REFERENCES THERETO:

ADMINISTRATION, LATEST EDITION.

APPLICABLE TO HEREINAFTER SPECIFIED MATERIAL.

FDOT SPECIFICATIONS, LATEST EDITION. LATEX PAINT ONLY.

WITH PAINT THINNER OR OTHER SUITABLE CLEANER.

1. FOUR INCH SOLID: 20 GALLONS PER MILE

APPEARANCE, BOTH DAY & NIGHT, SHALL BE CORRECTED.

C. COLORS: YELLOW & WHITE PER FOOT, OR AS INDICATED ON DRAWINGS.

OF THE FDOT SPECIFICATIONS, LATEST EDITION

PAVEMENT MARKING:

1.02 REFERENCE STANDARDS

1.04 MATERIALS & COLORS

1.05 EXECUTION

FOLLOWS:

EXPENSE.

1.08 CORRECTIVE MEASURES

LOCAL CODES.

1.06 PROTECTION OF PAINTED MARKINGS

1.07 DIMENSION & ALIGNMENT TOLERANCE

PARAGRAPH "CORRECTIVE MEASURES".

MARKING WITHOUT DAMAGE FROM THE TIRES.

SHALL BE 15 MILS.

& ACCURATE MANNER.

1.01 QUALITY ASSURANCE

- PRIOR TO PLACING NEW LAYERS. E. RECONDITIONING OF SUBGRADE: WHERE APPROVED COMPACTED SUBGRADES ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT OPERATIONS OF ADVERSE WEATHER SUBGRADE SHALL BE SCARIFIED & COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER JNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
- a. FILL UNDER LAWNS & PLANTED: 95%
- b. BELOW SLABS ON GRADE & CONCRETE WALKS: 98% c. UNDER PAVING PARKING AREAS: 98%

- A. THE CONTRACTOR WILL PROVIDE THE SERVICES OF A TESTING LABORATORY TO PERFORM SPECIFIED TESTS, INSPECTIONS, INSTRUMENTATION & INSPECTION OF WORK. B. TESTS OF MATERIALS SHALL BE AS FOLLOWS: a. SOIL CLASSIFICATION: ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED & /
- b. LABORATORY TESTS FOR MOISTURE-CONTEST & DENSITY ACCORDING TO AASHTO T-180: ONE TEST FOR EACH MATERIAL ENCOUNTERED & / OR PROPOSED TO BE
- c. FIELD TESTS FOR MOISTURE CONTEST & DENSITY: ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

SUPPLEMENTAL SPECIFICATIONS:

F. COMPACTION REQUIREMENTS

THE CONTRACTOR SHALL BECOME FAMILIAR WITH & ADHERE TO THE SPECIFICATIONS & STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH & COMPLY WITH ALL SITE DEVELOPMENT STANDARDS & CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD & BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS & THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY & TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN TH PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS & THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY & TRAFFIC DESIGN STANDARDS SHALL APPLY INCLUDING REFERENCES THEREIN. THE GENERAL DESCRIPTION OF THE NATURE OF THE WORK SHALL BE SUFFICIENT CORRELATION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, EXACT ITEM DESCRIPTION IS NOT REQUIRED. IN THE EVENT THERE ARE CONFLICTS BETWEEN SPECIFICATIONS OR REQUIREMENTS, THE MOST RESTRICTIVE (CONSERVATIVE) SPECIFICATION OR REQUIREMENT SHALL BE USED.

2. POTABLE WATER DISTRIBUTION/ WASTEWATER COLLECTION INSTALLATION

UNLESS OTHERWISE NOTED ON THE PLANS, THE STANDARDS & SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, & CERTIFICATION ACTIVITIES FOR ALL PUMP STATIONS, MAIN LINES, SERVICES, & APPURTENANCES. IF STANDARDS & SPECIFICATIONS ARE NOT AVAILABLE. THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS & SPECIFICATIONS ADOPTED BY CHARLOTTE COUNTY UTILITIES, LOCAL GOVERNMENTAL REGULATIONS, OR THE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE. A COPY OF THE CHARLOTTE COUNTY UTILITIES SPECIFICATIONS CAN BE REVIEWED AT THE OFFICE OF BANKS ENGINEERING, INC.

3. STORMWATER PIPE INSTALLATION & MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, & BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS & SPECIFICATIONS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

4. UNSUITABLE MATERIALS

IF UNSUITABLE MATERIAL IS ENCOUNTERED WITHIN THE ROADWAY AREA & / OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW THE SUB-BASE OR TRENCH BOTTOM & SHALL BE BACKFILLED WITH THE AASHTO A-3 MATERIAL OR BETTER WITH PLACEMENT & COMPACTION METHODS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS OR AS OTHERWISE NOTED ON THE PLANS. UNSUITABLE MATERIALS SHALL BE REMOVED FROM SITE, UNLESS THE ENGINEER APPROVES USE WITHIN LANDSCAPED AREAS.

DEWATERING:

THE GROUND WATER TABLE

- A. DEWATERING CONSISTS OF PERFORMING ALL WORK NECESSARY TO REMOVE SURFACE WATER & / OR CONTROL THE GROUND WATER LEVELS & HYDROSTATIC PRESSURES IN ORDER TO PERMIT ALL EXCAVATION & CONSTRUCTION UNDER THIS CONTRACT TO BE PERFORMED IN
- B. WORK OF THIS SECTION INCLUDES INSTALLATION, OPERATIONS, MAINTENANCE, SUPERVISION, SLIPPLY DISMANTLING & REMOVAL FROM THE SITE OF THE DEWAY C. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE POTENTIAL FOR EXCESSIVE RAINFALL, THE GROUND CONDITIONS, & THE GROUND WATER CONDITIONS, GROUND WATER ELEVATION CAN FLUCTUATE. IT IS ANTICIPATED THAT ANY EXCAVATIONS MAY ENCOUNTER
- D. DRAINAGE OF THE SITE: AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN & OPERATE ADEQUATE SURFACE & SUBSURFACE DRAINAGE METHODS IN ORDER TO KEEP THE CONSTRUCTION SITE DRY & IN SUCH CONDITION THAT PLACEMENT & COMPACTION OF FILL MAY PROCEED UNHINDERED BY SATURATION OF THE AREA DURING CONSTRUCTION. THE SURFACE OF THE BACKFILL AREA SHALL BE LEFT IN SUCH CONDITION THAT PRECIPITATION & / OR SURFACE WATER WILL RUN OFF WITHOUT PONDING.

- A THE CONTROL OF ALL SURFACE & SUBSURFACE WATER IS PART OF THE DEWATERING REQUIREMENTS, MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED & CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, & THE FLOODING OF EXCAVATIONS OR DAMAGE TO STRUCTURES DOES NOT OCCUR, DRAIN SURFACE WATER AWAY FROM THE EXCAVATION.
- B. DISPOSE OF ALL WATER REMOVED FROM THE EXCAVATION IN A MANNER THAT WILL NOT ENDANGER PUBLIC HEALTH, PROPERTY, OR PORTIONS OF THE WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE
- WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE. C. DISPOSE OF WATER RESULTING FROM DEWATERING OPERATIONS IN ACCORDANCE WITH CITY, COUNTY, STATE & FEDERAL REGULATIONS.
- D. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS & ADJACENT PROPERTIES. E. DEWATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES
- FROM THE SITE DURING THE DEWATERING OPERATION.

PORTLAND CEMENT CONCRETE PAVING:

A. COMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS & CONCRETE BASES (ACI 325.9R, LATEST EDITION)

1.02 REFERENCE STANDARDS

- A. THE FOLLOWING REFERENCE STANDARDS OF THE ISSUES LISTED BELOW BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THERETO. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH HEREINAFTER SPECIFIED STANDARDS. a. AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM)
- b. AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO) STANDARD.
- c. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION-SECTION 350- "CEMENT CONCRETE PAVEMENT".

A. THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY & CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THESE REPORTS SHALL INDICATE ALL TESTS PERFORMED & SHALL INCLUDE A CERTIFICATION STATEMENT OF COMPLIANCE WITH THE PROJECT SPECIFICATIONS. TESTS SHALL BE PERFORMED AS SPECIFIED UNDER THIS

a. SUBMIT FOR REVIEW THE FOLLOWING:

- 1. CONCRETE DESIGN MIX & PROVING FLEXURAL STRENGTH (MODULUS OF RUPTURE) TESTS
- 2. EXPANSION JOINT FILLER DATE JOINT SEALER DATE

d. T-180 MOISTURE- DENSITY RELATIONS OF SOILS

- PROPOSED PAVING CONSTRUCTION PLAN WHICH SHALL SHOW THE CONCRETE PAVING JOINT TYPES & LOCATIONS & SHALL INCLUDE A STATEMENT OF
- PROPOSED SEQUENCE & SCHEDULE OF PAVING OPERATIONS
- . RESULTS OF CONCRETE TESTS 6. RESULTS OF FIELD TESTS OF LBR & COMPACTION OF STABILIZED SUBGRADE.

ENGINEERING

4161 TAMIAMI TRAIL - BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625-1165 FAX: (941) 625-11 ENGINEERING LICENSE # EB 6469

PREVENT THE REAPPLICATION OF MARKINGS.

HIS ITEM HAS BEEN DIGITALLY SIGN AND SEALED BY RYAN W. POWERS SIGNED AND SEALED AND THE IGNATURE MUST BE VERIFIED ON AN ELECTRONIC COPIES.

RYAN W. POWERS, P. FL LIC. NO. 82437 A. PROVIDE THE OWNER WITH A MINIMUM OF FIVE GALLONS OF TRAFFIC PAINT FROM THE SAME BATCH USED IN APPLICATION OF PAVEMENT MARKINGS. ALSO PROVIDE PAINT SPECIFICATIONS & THE MANUFACTURER'S IDENTIFICATION NUMBER OF THE PAINT USED.

1.09 SPARE PAINT

A. ANY PAVEMENT MARKINGS LOCATED WITHIN PUBLIC RIGHTS-OR-WAY SHALL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.

B. ANY PAVEMENT MARKINGS LOCATED ON-SITE SHALL BE PAINT UNLESS OTHERWISE

CONSTRUCTION TOLERANCES:

THE FOLLOWING ARE THE ALLOWABLE DEVIATIONS FROM PROJECT DESIGN GRADES & GRADIENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM & DOCUMENT COMPLIANCE WITH THESE TOLERANCES PRIOR TO PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO THE NEXT:

1. STORMWATER MANAGEMENT/ DRAINAGE FACILITIES A. PERIMETER CONTAINMENT BERM:

MINIMUM ELEVATION = DESIGN GRADE

MAXIMUM ELEVATION= DESIGN GRADE + 0.10 FEET B. WATER CONTROL STRUCTURE: MINIMUM GRATE ELEVATION = DESIGN GRADE MAXIMUM GRATE ELEVATION = DESIGN GRADE + 0.10 FEET MINIMUM CREST ELEVATION = DESIGN GRADE MAXIMUM CREST ELEVATION = DESIGN GRADE + 0.05 FEET MINIMUM BLEEDER ELEVATION = DESIGN GRADE

MAXIMUM BLEEDER ELEVATION = DESIGN GRADE + 0.05 FEET

MINIMUM TOP OF FILTER ELEVATION = DESIGN GRADE MAXIMUM TOP OF FILTER ELEVATION = DESIGN GRADE + 0.05 FEET C. CATCH BASINS/INLETS/PIPE INVERTS: MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET

MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET D. SWALE GRADES / GRADIENTS: MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET MAXIMUM ELEVATION = DESIGN GRADE +0.10 FEET

MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT E. PAVEMENT GRADES / GRADIENTS: a. FLEXIBLE PAVEMENT GRADE:

MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET

MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET b. FLEXIBLE PAVEMENT GRADIENTS MINIMUM GRADIENTS = 90% DESIGN GRADIENT

(CROSS SLOPE & LONGITUDINAL SLOPE)

c. RIGID (CONCRETE) PAVEMENT GRADE: MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET d. RIGID PAVEMENT GRADIENTS:

MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT (CROSS SLOPE & LONGITUDINAL SLOPE) MAXIMUM HANDICAP RAMP = 1:12

(GRADIENT UNLESS OTHERWISE SPECIFIED BY LOCAL CODES) 2. WATER DISTRIBUTION/ WASTEWATER COLLECTION FACILITIES

UNLESS OTHERWISE SPECIFIED BY THE LOCAL UTILITY COMPANIES, THE FOLLOWING ARE THE ALLOWABLE TOLERANCES FOR THESE ACTIVITIES: A. MANHOLES & PIPE INVERTS: MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET

MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT B. ALIGNMENT/ LOCATION OF APPURTENANCES: AS ALLOWED BY THE APPLICABLE UTILITY & /OR LOCAL GOVERNMENTAL ENTITY. CONTRACTOR SHALL CONFIRM & DOCUMENT THIS PRIOR TO CONSTRUCTION.

NOTE: THE AFOREMENTIONED TOLERANCES DO NOT APPLY TO DESIGN SECTIONS THAT FALL UNDER THE MORE STRINGENT AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, COORDINATING, DOCUMENTING, & PROVIDING THE FOLLOWING MINIMUM TESTING:

WATER DISTRIBUTION (REFER TO PUBLIC WORKS SPECIFICATIONS)

UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE LINES SHALL BE PRESSURE
TESTED TO THE RATING OF THE PIPE. THE LINES SHALL BE TESTED IN SEGMENTS BETWEEN
MAINLINE VALVES. BACTERIOLOGICAL TEST SAMPLES SHALL BE TAKEN AT ALL BRANCH LINE TERMINATION POINTS OR CONNECTION POINTS & ALONG THE MAIN LINES AT DISTANCES NOT O EXCEED 2,640 FEET. ALL HYDRANTS & VALVES SHALL BE OPERATED TO TEST

WASTEWATER COLLECTION (REFER TO PUBLIC WORKS SPECIFICATIONS)
UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FORCE MAIN SHALL BE
PRESSURE TESTED TO THE RATING OF THE PIPE. VALVES SHALL BE OPERATED TO TEST PERFORMANCE. DEPENDING UPON WATER TABLE CONDITIONS DETERMINED BY THE ENGINEER, THE GRAVITY LINES SHALL BE TESTED FOR EITHER INFILTRATION OR EXFILTRATION & INFLOW. THERE SHALL BE NO PIPE, FITTING OR MANHOLE AS REQUIRED. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OF ALL MAIN GRAVITY LINES, ALONG WITH A LOG OF LATERAL

LOCATIONS. ALL ELECTRICAL & MECHANICAL DEVICES AT LIFT STATIONS SHALL BE TESTED TO VERIFY PROPER OPERATIONAL STATUS. MAINTENANCE MANUALS SHALL BE PROVIDED. PRIVATE ROADWAY / PARKING SUBGRADE (REFER TO PUBLIC WORKS SPECIFICATIONS)
THE SUBGRADE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF, DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 20,000 SF THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB. PRIVATE ROADWAY/ PARKING BASE (REFER TO PUBLIC WORKS SPECIFICATIONS)
THE BASE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF.

DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 10,000 SF. A SIEVE

ANALYSIS SHALL BE PERFORMED AT A FREQUENCY OF ONE PER ACRE. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB. PRIVATE ASPHALT PAVING (REFER TO PUBLIC WORKS SPECIFICATIONS) ASPHALTIC CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: THICKNESS, SIEVE ANALYSIS MIX TYPE, STABILITY %, BITUMAN & DENSITY. THE ASPHALT SHALL BE

TESTED AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB. PUBLIC ROADWAYS (REFER TO PUBLIC WORKS SPECIFICATIONS)
AS REQUIRED BY THE ENTITY HAVING JURISDICTION, BUT NOT LESS THAN REQUIRED FOR PRIVATE ROADWAYS AS OUTLINED ABOVE. PORTLAND CEMENT CONCRETE (REFER TO PUBLIC WORKS SPECIFICATIONS)
CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: SLUMP, MODULES OF

RUPTURE, & 7 AND 28 DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB RETENTION/DETENTION FACILITIES (REFER TO PUBLIC WORKS SPECIFICATIONS)
IF INCLUDED WITHIN THE PROJECT, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER & PERFORM A DRAW DOWN & CAPACITY TEST OF THE FACILITIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT WATER & ACCEPTABLE MEANS TO MEASURE THE WATER VOLUMES PROVIDED, IF REQUIRED BY THE ENGINEER, IF A FILTRATION SYSTEM IS INCLUDED WITHIN THE

PROJECT. THE FILTER MEDIA SHALL BE TESTED FOR COMPLIANCE WITH ALL CURRENT SPECIFICATIONS OF THE WATER MANAGEMENT DISTRICT, A PROFESSIONAL ENGINEER'S

IN ADDITION TO THE ENVIRONMENTAL PROTECTION DURING CONSTRUCTION SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING IN THE ORDER LISTED: PRIOR TO COMMENCEMENT, PROVIDE NOTIFICATIONS TO THE LOCAL WATER MANAGEMENT

CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

DISTRICT & LOCAL GOVERNMENT ERECT A TURBIDITY SCREEN ON ANY DOWNSTREAM SYSTEM WHICH RECEIVES RUNOFF FROM THE PROJECT. INSTALL OUTFALL CONTROL STRUCTURE & FILTRATION SYSTEM IF

PROVIDE A TEMPORARY FILTER CLOTH COVERED WITH GRAVEL OVER ANY PROPOSED INSTALL A TEMPORARY TURBIDITY SCREEN AT ALL CONTROL STRUCTURES.

CONSTRUCT A TEMPORARY PERIMETER BERM AS NECESSARY TO DIRECT ALL RUNOFF WITHIN ANY AREA PLANNED FOR CLEARING MAINTAIN FILTER DURING CONSTRUCTION TO PROVIDE CONTINUOUS OPERATION UPON PERFORMING FINAL GRADING, THE CONTRACTOR SHALL REMOVE ALL SILTS, CLAYS & OTHER DELETERIOUS MATERIAL FROM THE BOTTOM OF ALL STORMWATER

MANAGEMENT AREAS PRIOR TO GRASSING. AFTER ACHIEVING A NON-ERODIBLE COVER OF GRASS, REMOVE TEMPORARY FILTER CLOTH & GRAVEL OVER FILTERS & REPLACE WITH NEW FILTER CLOTH & COVER

MATERIAL IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS. UPON FINAL APPROVAL FROM OWNER, REMOVE ALL TEMPORARY EROSION & SEDIMENT CONTROL FACILITIES.

NOTE: GENERAL NOTES & SPECIFICATIONS SHOWN ON THIS SHEET ARE APPLICABLE TO THIS PROJECT UNLESS OTHERWISE NOTED. THE PROJECT NOTES & PLANS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES & SPECIFICATIONS SHOWN ON THIS SHEET.

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

GENERAL NOTES & SPECIFICATIONS

BISCAYNE LANDING

CHARLOTTE COUNTY, FLORIDA DESIGN DRAWN CHECKED DRAWING 4272

- CALL OF FLORIDA 1 (800) 432 - 4770 2600 BLAIR STONE ROAD ALLAHASSEE, FLORIDA 2399-2400

LENNAR HOMES, LLC 10481 SIX MILE CYPRESS PARKWAY

FORT MYERS, FL 33966 PHONE: 239-931-4778 REVISION DESCRIPTION

Serving The State Of Florida

SURVEY LICENSE # LB 6690 WWW.BANKSENG.COM

PROJECT 3-25-19

SHEET

PROTECTION OF FISH & WILDLIFE:

RIOR TO EXCAVATION CONTACT SUNSHINE STATE ONE

CONTRACTOR SHALL SUBMIT FOR N.P.D.E.S. PERMIT A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. PERMIT APPLICATION SHALL BE SUBMITTED TO: P.D.E.S. STORMWATER NOTICES CENTER, MS # 251 LORIDA DEPARTMENT OF ENVIRONMENTAL PROTECT **GENERAL SPECIFICATIONS:**

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPT. OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION.

2. THE CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS OF SUBGRADE & LIMEROCK BASE MATERIALS TO THE ENGINEER PRIOR TO PAYMENT &/OR FINAL ACCEPTANCE. ONE TEST PER COURSE PER 600 SQUARE YARDS.

3. ALL REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL MEET ASTM C 76, CLASS III, TYPE "B" WALL FOR ROUND PIPE & MEET ASTM C 507, TABLE I FOR ELLIPTICAL PIPE & OTHERWISE BE INSTALLED & MANUFACTURED IN ACCORDANCE WITH F.D.O.T. SECTIONS 430 & 941.

4. CONTRACTOR SHALL PROVIDE & MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION & THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.

5. CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS & OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR

6. ALL PAVEMENT STRIPING TO BE TWO COATS OF HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.

7. ALL TRAFFIC SIGNS TO BE DRIVEN STEEL POST TYPE GROUND SIGNS IN ACCORDANCE WITH F.D.O.T. INDEX DRAWINGS 11860 & 11863 (80 M.P.H. WIND LOAD) & F.D.O.T. SPECIFICATIONS SECTION 700-HIGHWAY SIGNING

8. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION.

DRAINAGE GENERAL NOTES: 1. ALL EXISTING ELEVATIONS IN PLAN SET ARE IN NAVD 88 DATUM.

2. ALL PROPOSED ELEVATIONS ARE IN NAVD 88 DATUM

3. CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF AS-BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE COPY TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION.

4. ALL BACKFILL SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE BEDDING DETAILS.

5. CONTRACTOR SHALL COORDINATE ALL WORK IN THE COUNTY RIGHT-OF-WAY WITH THE CHARLOTTE COUNTY D.O.T.&E.

6. ALL REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL MEET ASTM C 76, CLASS III, TYPE "B" WALL FOR ROUND PIPE AND MEET ASTM C 507, TABLE I FOR ELLIPTICAL PIPE AND OTHERWISE BE INSTALLED AND MANUFACTURED IN ACCORDANCE WITH F.D.O.T. SECTIONS 430 &

7. ALL ROOF TOP DRAINS ARE TO BE DIRECTED TO DRAINAGE AREA.

8. CONTRACTOR SHALL SOD OR SEED & MULCH ALL DISTURBED AREAS ON-SITE AND OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.

9. SOD ALL SWALE AND TREATMENT AREAS.

10. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE COUNTY

11. THE GRADES REPRESENT THE FINISHED GRADE ON TOP OF THE SOD.

11. A RIGHT-OF-WAY USE PERMIT WILL BE REQUIRED FOR ALL WORK WITHIN RIGHT-OF-WAY.

12. SHOP DRAWINGS ARE REQUIRED FOR ALL STRUCTURES.

13. THE PROPOSED MITERED END SECTIONS WITHIN COUNTY RIGHT OF WAY, SHALL EXTEND BEYOND THE PROPOSED EDGE OF PAVEMENT A MINIMUM OF 6'-0".

14. CONTRACTOR RESPONSIBLE FOR WATERING AND MOWING OF SOD PLACED IN THE ROW UNTIL ESTABLISHMENT AND FINAL ACCEPTANCE BY THE COUNTY.

15. CURB ELEVATIONS SHOWN ARE FOR THE LOW SIDE OF THE CURB UNLESS OTHERWISE NOTED.

16. ALL SLOPES TO BE 4:1 MAXIMUM. (UNLESS NOTED OTHERWISE)

17. ALL WORK SHOWN BY INDEX NO. (DESIGN STANDARDS/STANDARD PLANS) SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD & BRIDGE CONSTRUCTION OR FDOT DESIGN MANUAL, LATEST

BMP GENERAL NOTES:

SCHEDULE OF BMP IMPLEMENTATION:

1. INSTALL ALL TEMPORARY BMP MEASURES PRIOR TO START OF

2. INSTALL ALL PERMANENT BMP MEASURES IMMEDIATELY AFTER FINAL

3. REMOVE TEMPORARY BMP FEATURES AS APPLICABLE.

PROJECT INFORMATION:

1. THIS PROJECT PRESENTS NO ADVERSE IMPACTS ON LOCAL GROUNDS OR SURFACE WATERS, AND DOES NOT ADVERSELY IMPACT THE

2. THIS SITE CAN BE USED FOR THE DEVELOPMENT AS SHOWN. WITHOUT UNIQUE DANGER FROM FLOOD, ADVERSE SOIL, AND/OR FOUNDATION CONDITIONS, SUBJECT TO PROPER GEOTECHNICAL INVESTIGATION, SITE DESIGN, AND STRUCTURE DESIGN.

THE PROJECT DOES NOT IMPACT ANY KNOWN UNMITIGATED

4. NO KNOWN ARCHAEOLOGICAL SITES EXIST WITHIN THE PROJECT AREA.

5. THE CONTRACTOR SHALL SUPPLY BATHYMETRIC SURVEY ON ALL LAKES GREATER THAN 12' DEEP PRIOR TO FINAL ACCEPTANCE.

SURVEY LOCATION INFORMATION PROVIDED BY BANKS ENGINEERING.

A SEPARATE RIGHT-OF-WAY USE PERMIT WILL BE REQUIRED FOR ALL UTILITY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. SPECIFIC STIPULATIONS OR CONDITIONS WILL BE IMPOSED A THE TIME OF PERMIT APPLICATION.

3. ALL SIDEWALKS SHALL MEET ADA STANDARDS.

4. ALL SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.

ALL ELEVATIONS SHOWN ARE IN NAVD 88, TO CONVERT ELEVATIONS INTO NGVD 1929: +1.12 FEET CONVERSION FACTOR.

SITE DATA TABLE:

PROPERTY AREA: PROJECT AREA (DRAINAGE BASIN): CURRENT ZONING AND LAND USE: PROPOSED USE:

125.93 ACRES

98.67 ACRES PD (PLANNED DEVELOPMENT) (VACANT) MIXED USE PLANNED DEVELOPMENT (PD)

LANDUSE BREAKDOWN:

PROPERTY AREA: 125.93 AC (100%) — PROJECT AREA (DRAINAGE BASIN): 98.67 AC (78.4%) (100%) - RESIDENTIAL TRACTS: 57.30 AC (58.1%) ^{_}22.07 AC (22.3%)- LAKES: —11.63 AC PRIVATE RIGHT OF WAY (11.8%) (6.7%)- COMMON OPEN AREA (GREEN SPACE): ← 6.64 AC └─ 0.74 AC (0.8%)- AMENITY IMPROVEMENT AREA: - 0.29 AC (0.3%) - AMENITY OPEN AREA: —18.48 AC (14.7%) OPEN GREEN SPACE: 8.78 AC (7.0%) (100%) PRESERVATION AREA: WETLAND PRESERVE (WL-1): ├ 2.33 AC (26.5%) - UPLAND PRESERVE (OSW-1) ─ 6.45 AC

FLOOD ZONE:

PARCEL LIES IN FLOOD ZONES X, 8AE FEMA FLOOD MAPS 12015C0040F DATED 5/5/2003, 12015C0202F DATED 5/5/2003, 12015C0043F DATED 5/5/2003, 12015C0206F DATED 5/5/2003

UNIT BREAKDOWN:

SINGLE FAMILY DETACHED (52'X130') SINGLE FAMILY ATTACHED VILLAS (72'X130' 2 UNITS/LOT) 122 355 TOTAL UNITS:

DEVELOPMENT STANDARDS:

DESCRIPTION	SINGLE FAMILY DETATCHED	SINGLE FAMILY ATTACHED VILLAS	
REQUIRED PARKING	2 / UNIT	2 / UNIT	
MIN. LOT REQUIREMENT (SQ. FT.)	5,000	3,200	
MAX. PERCENTAGE OF LOT COVERAGE (%)	60	70	
MIN. WIDTH (FT.)	50	35	
MIN. FRONT YARD (FT.)	20	20	
MIN. SIDE YARD INTERIOR (FT.)	5	5/0**	
MIN. SIDE YARD ABUTTING A ROAD (FT.)	15	15	
MAX. BUILDING HEIGHT (FT.)	38	38	
MIN. REAR YARD ABUTTING A LOT (FT.)	10	10	
MIN. REAR YARD ABUTTING WATER (FT.)	15	15	
MIN. REAR YARD ABUTTING A ROAD (FT.)	15	15	
SETBACK FOR ACCESSORY STRUCTURE FROM REAR LOT LINE (FT.)	SAME AS PRINCIPAL BUILDING		
SETBACK FOR ACCESSORY STRUCTURE FROM SIDE YARD (FT.)	SAME AS PRINCIPAL BUILDING		
SETBACK FOR ACCESSORY STRUCTURE ABUTTING A ROAD (FT.)	SAME AS PRIN	CIPAL BUILDING	
SETBACK FOR ACCESSORY STRUCTURE ABUTTING WATER (FT.)	SAME AS PRIN	CIPAL BUILDING	

NOTE:
** SINGLE FAMILY ATTACHED WILL HAVE O' SIDE SETBACK ON ONE SIDE.

PARKING CALCULATION:

SINGLE FAMILY RESIDENTIAL REQUIRED: 2.0 SPACES PER DWELLING UNIT =716 SPACES

(358 UNITS) X (2.0) =716 SPACES

PROVIDED: 2.0 SPACES PER DWELLING UNIT

TOTAL REQUIRED SPACES: 716 SPACES TOTAL PROVIDED SPACES: 716 SPACES

AMENITY AREA

PARKING FOR THE PROJECT AMENITY AREA WILL BE DETERMINED AND PROVIDED ONSITE AT THE TIME OF FINAL SITE PLAN APPROVAL

DESIGN HIGH WATER ELEVATIONS:

LAKE DESIGN DATA

LAKE ID	A	CONTROL ELEVATION	100Y24H	25Y24H	ТОВ	TOB AREA
	(acres)	(ff) NAVD	(ft) NAVD	(ff) NAVD	(ft) NAVD	(acres)
LAKE A	0.48	5.00	8.35	7.77	8.66	0.79
LAKE B	1.76	5.00	8.25	7.73	8.58	2.31
LAKE C	2.71	6.50	8.33	7.84	7.84	3.04
lake d	1.06	6.50	8.46	7.94	7.94	1.18
LAKE E	0.55	6.50	8.47	7.95	8.77	0.67
LAKE F	7.39	6.50	8.09	7.71	7.71	7.92
LAKE G	2.52	6.50	7.83	7.57	8.25	2.73
lake h	1.48	6.50	7.6	7.42	8.04	1.6
LAKE I	1.03	6.50	7.52	7.29	7.52	1.13
LAKE J	3.09	5.50	6.24	5.89	6.25	3.28

OPEN SPACE:

COMMON OPEN AREA (GREEN SPACE): 25.35 AC 22.07 AC LAKES: OPEN HABITAT SPACE: 9.72 AC AMENITY OPEN AREA: 0.29 AC OPEN SPACE = (COMMON OPEN AREA + LAKES + OPEN HABITAT SPACE + AMENITY OPEN AREA) / PROPERTY AREA

= (25.12 AC + 22.07 AC + 9.72 AC + 0.29) / 125.93 AC= 45.4%

OPEN HABITAT SPACE

REQUIRED: 5% OF PROJECT AREA= $(125.93 \text{ AC} \times 0.05) = 6.30 \text{ AC}$

PROVIDED: OPEN HABITAT SPACE + PROPERTY AREA $(9.72 \div 125.93) = 7.7\%$

LEGEND

DRAINAGE PIPE		
DRAINAGE STRUCTURES		
FINISHED FLOOR ELEVATION	N/A	19.0
ON-SITE STORM STRUCTURE NUMBER	N/A	S-1
OFF-SITE STORM STRUCTURE NUMBER	N/A	<u> </u>
SPOT GRADE ELEVATION	+\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(10.74)
TOP OF BERM		
RUBBLE RIP-RAP		
PAVEMENT		
PAVEMENT TO BE REMOVED		N/A
CONCRETE		The second secon
RIGHT-OF-WAY		
CURB	=====	
EASEMENT		
SWALE/DITCH	>>>>>	→→→→
TOP OF BANK	- y y	YY
LAKE		
STORMWATER MANAGMENT AREA (DRY)		
WETLANDS	Ψ Ψ Ψ	Ψ Ψ Ψ
PROPERTY LINE		P.—
POTABLE WATER LINE	E8"W	8*W
FORCE MAIN	E8"F	8*F
SANITARY SEWER MAIN	E8"SS	8*ss
IRRIGATION WATER MAIN	E8"I	8"I
REUSE WATER MAIN	E8"RU	8"RU
GATE VALVE	——⋈—	├
REDUCER	4	
BLOW-OFF	OE-	● E
AIR RELEASE VALVE	<u> </u>	<u></u>
FIRE HYDRANT ASSEMBLY		*
SINGLE WATER SERVICE	P	T
DOUBLE WATER SERVICE		
SINGLE IRRIGATION SERVICE		•
DOUBLE IRRIGATION SERVICE		
SINGLE SEWER SERVICE		
DOUBLE SEWER SERVICE		
SANITARY MANHOLE & ID		•
LIFT STATION & ID		

FXISTING

PROPOSED

PRIOR TO EXCAVATION CONTACT SUNSHINE STATE ONE - CALL OF FLORIDA 1 (800) 432 - 4770

CONTRACTOR SHALL SUBMIT FOR N.P.D.E.S. PERMIT A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.

PERMIT APPLICATION SHALL BE SUBMITTED TO:

N.P.D.E.S. STORMWATER NOTICES CENTER, MS # 2510, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PROJECT NOTES AND LEGEND

CHARLOTTE COUNTY, FLORIDA

PROJECT DRAWING DESIGN DRAWN

BISCAYNE LANDING

4272 DCT

LENNAR HOMES, LLC

10481 SIX MILE CYPRESS PARKWAY FORT MYERS, FL 33966

PHONE: 239-931-4778

-25-20 REVISED TOB ELEVATIONS

ENGINEERING Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida

ENGINEERING LICENSE # EB 6469 SURVEY LICENSE # LB 6690 WWW.BANKSENG.COM

4161 TAMIAMI TRAIL - BLDG 5 UNIT 501

PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625—1165 FAX: (941) 625—114

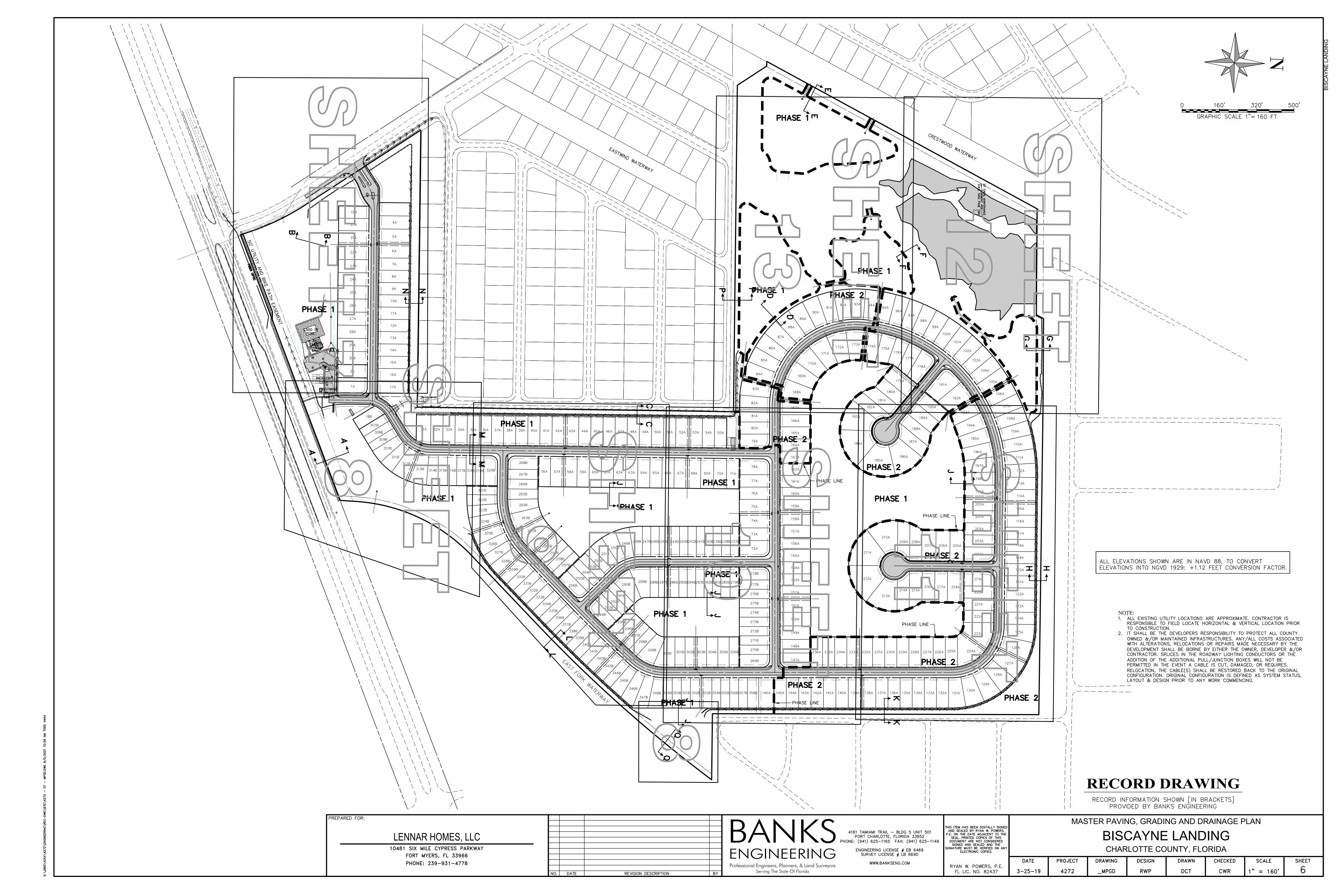
RYAN W. POWERS, P.E 3-25-19 FL LIC. NO. 82437

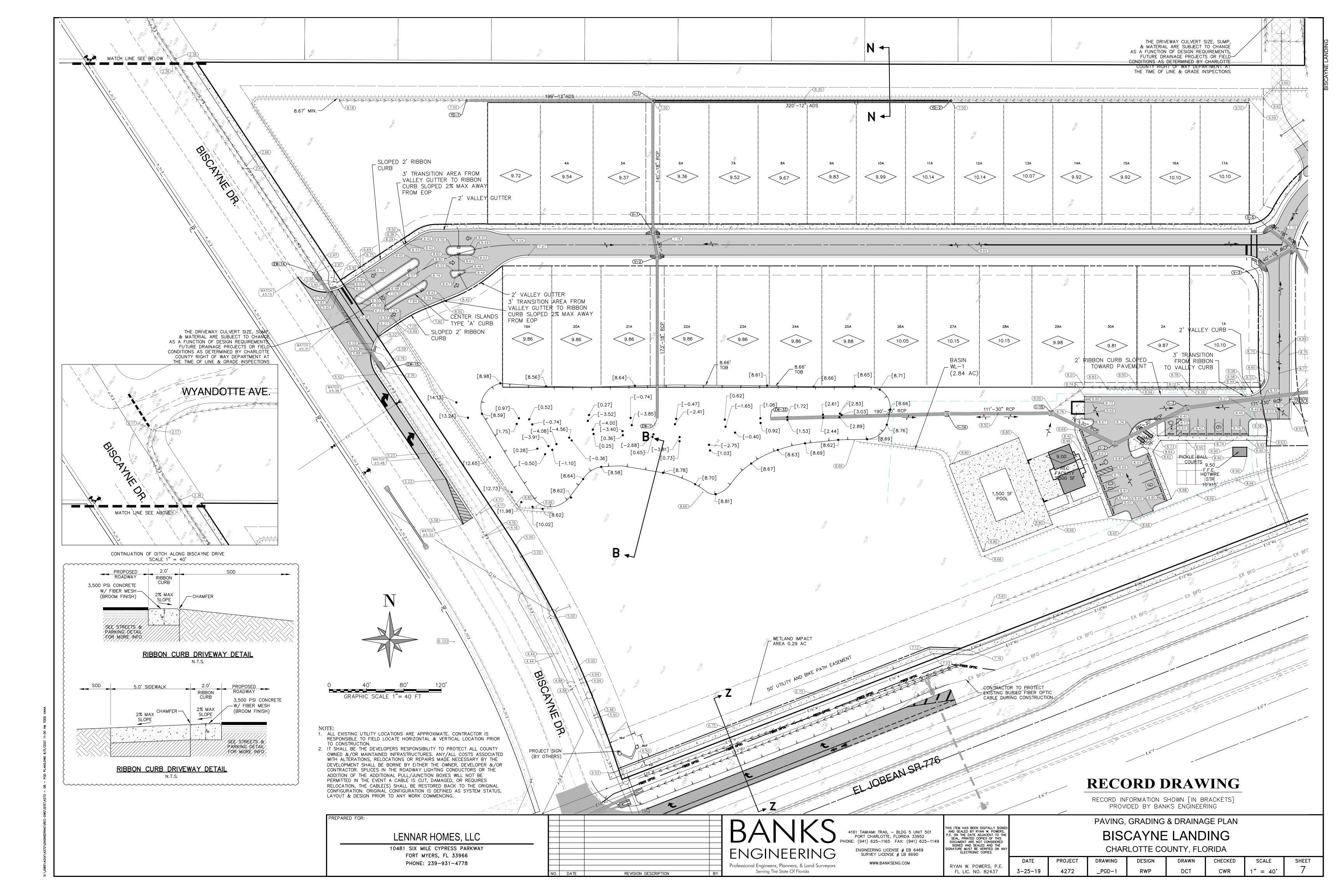
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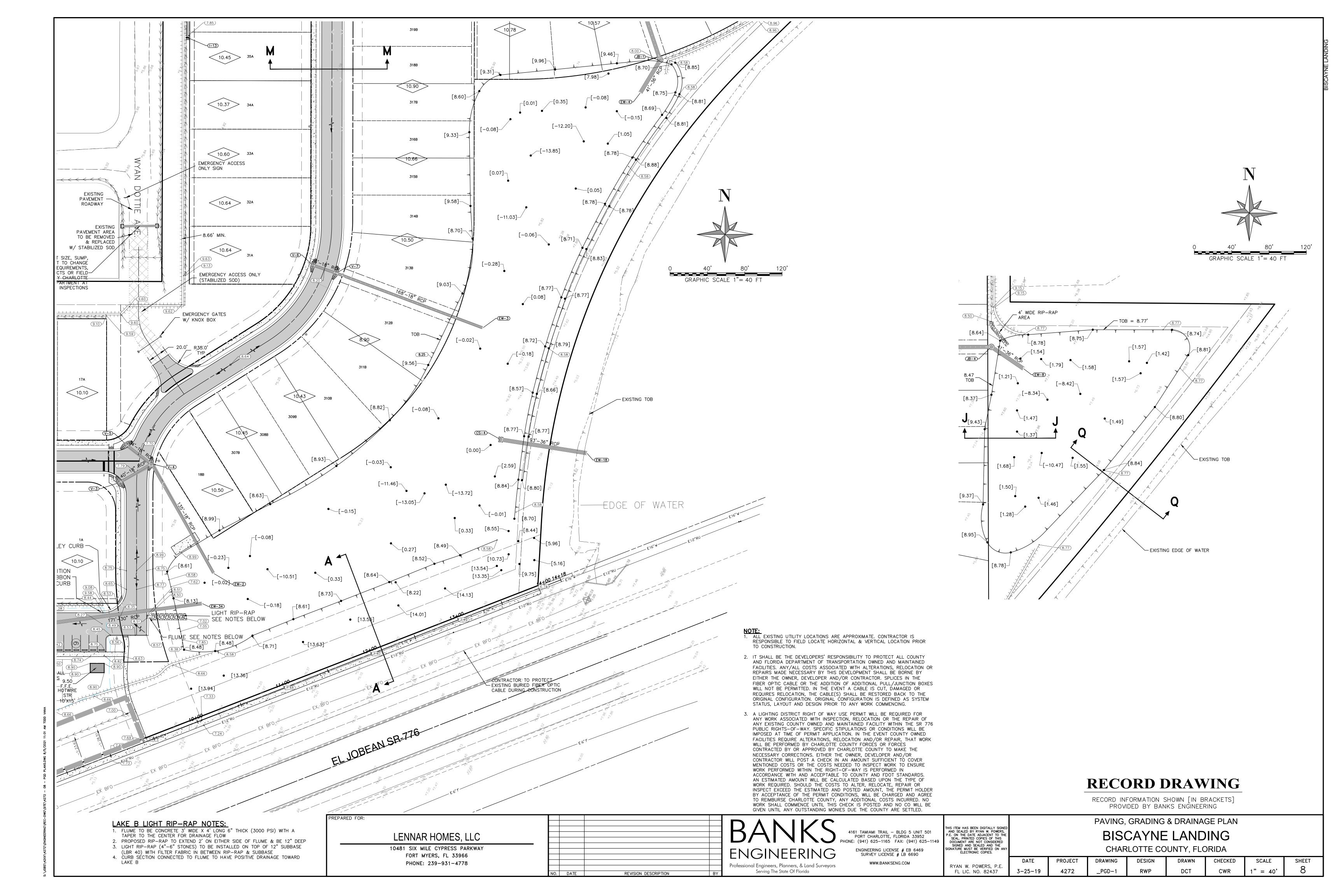
SCALE

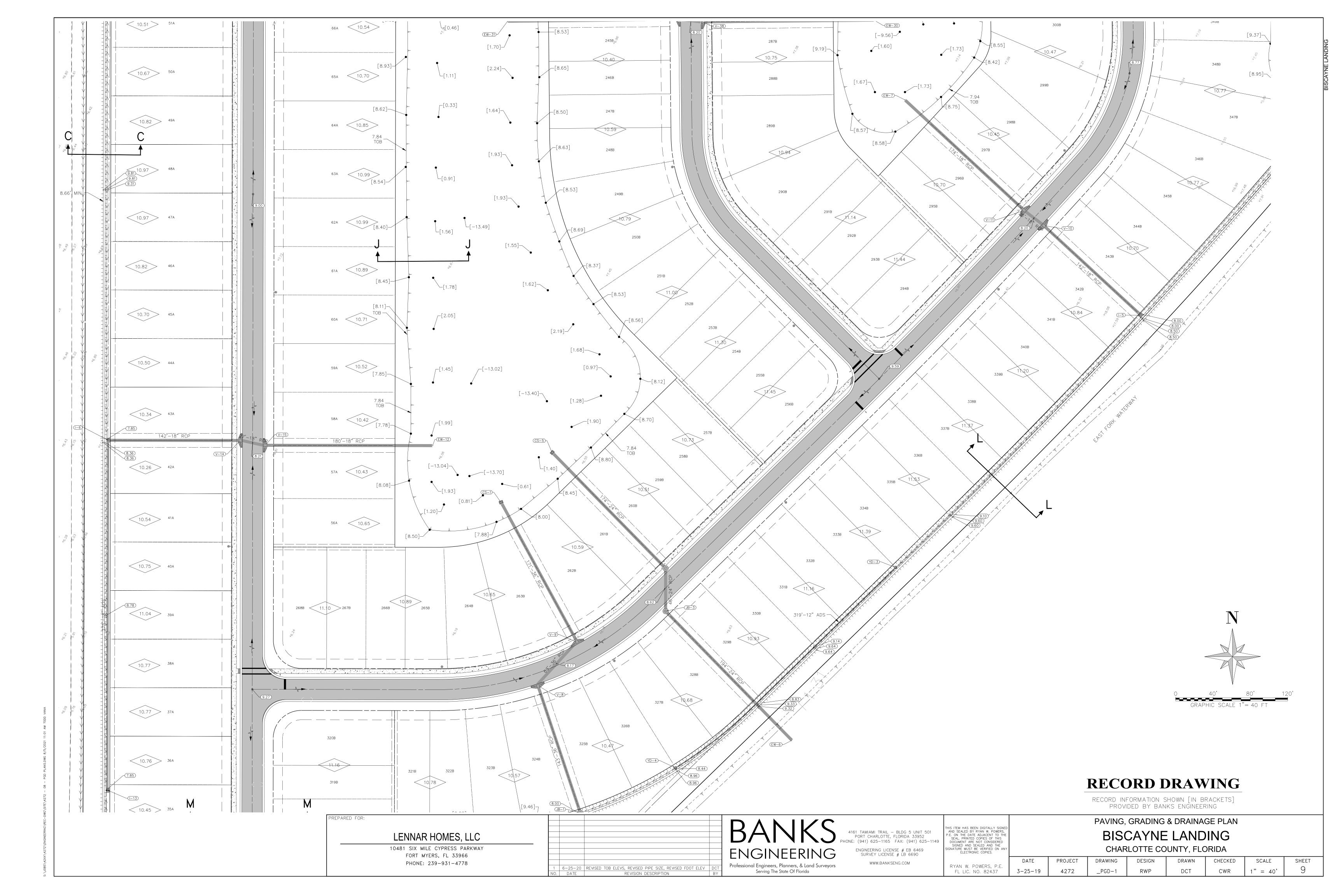
SHEET

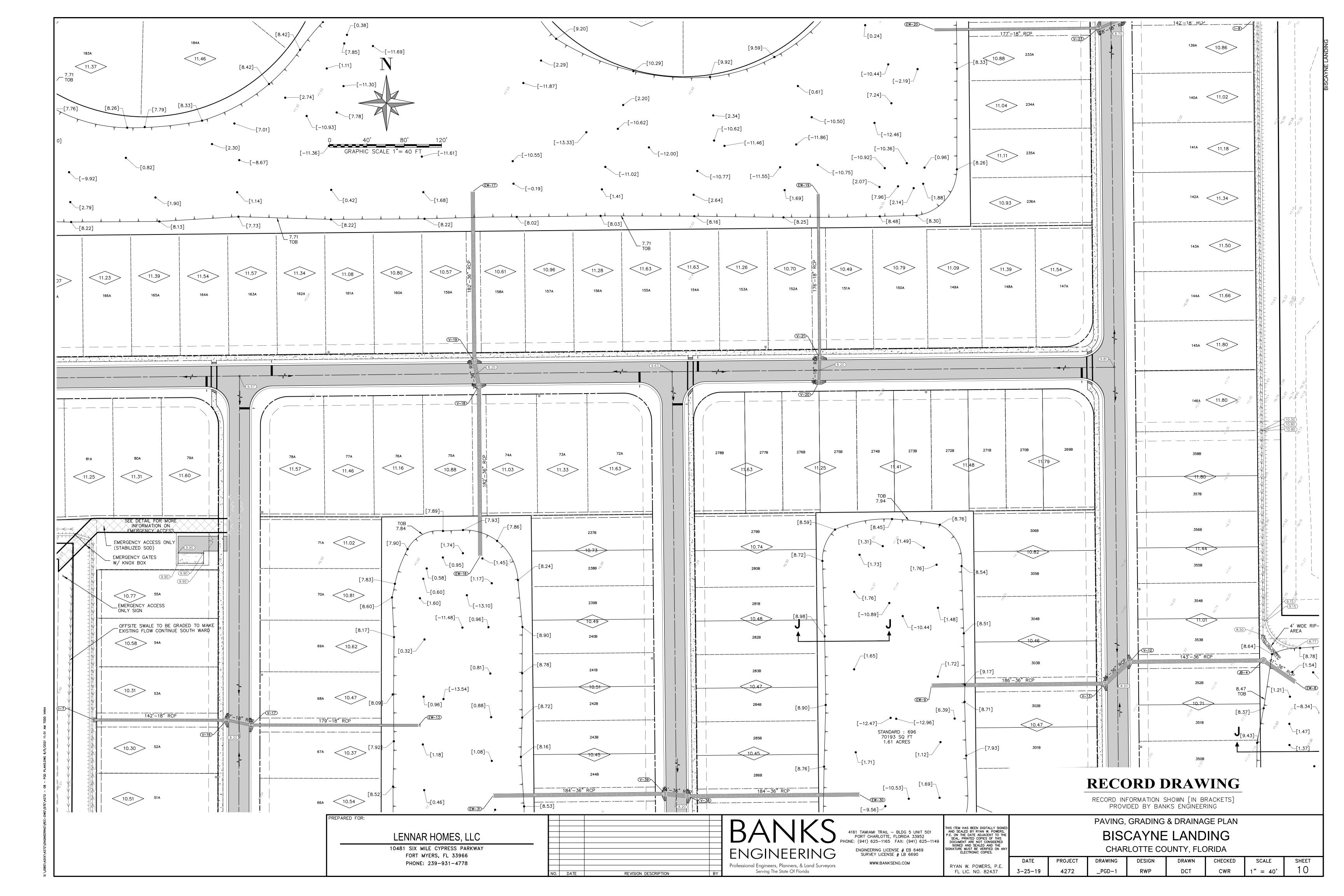


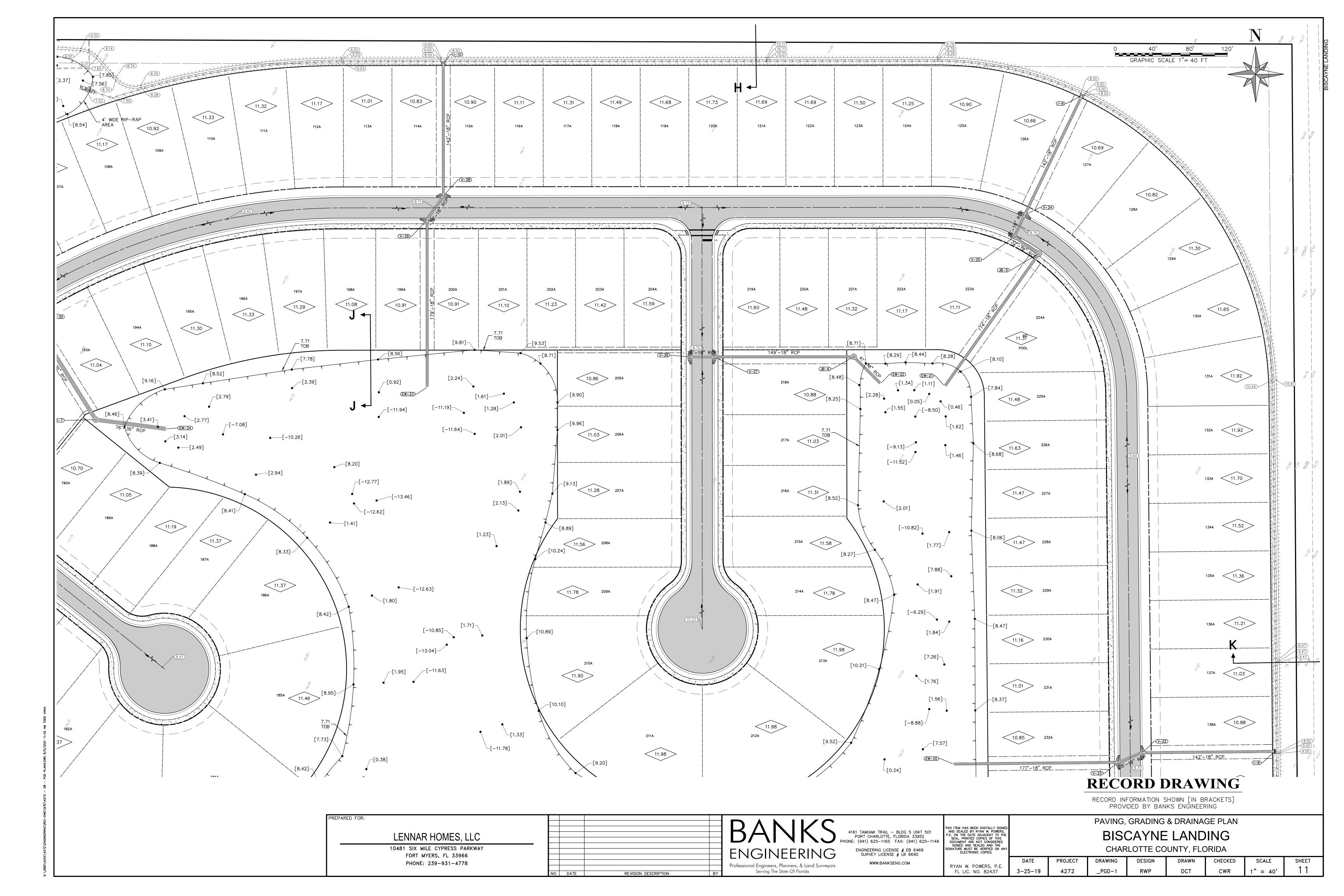


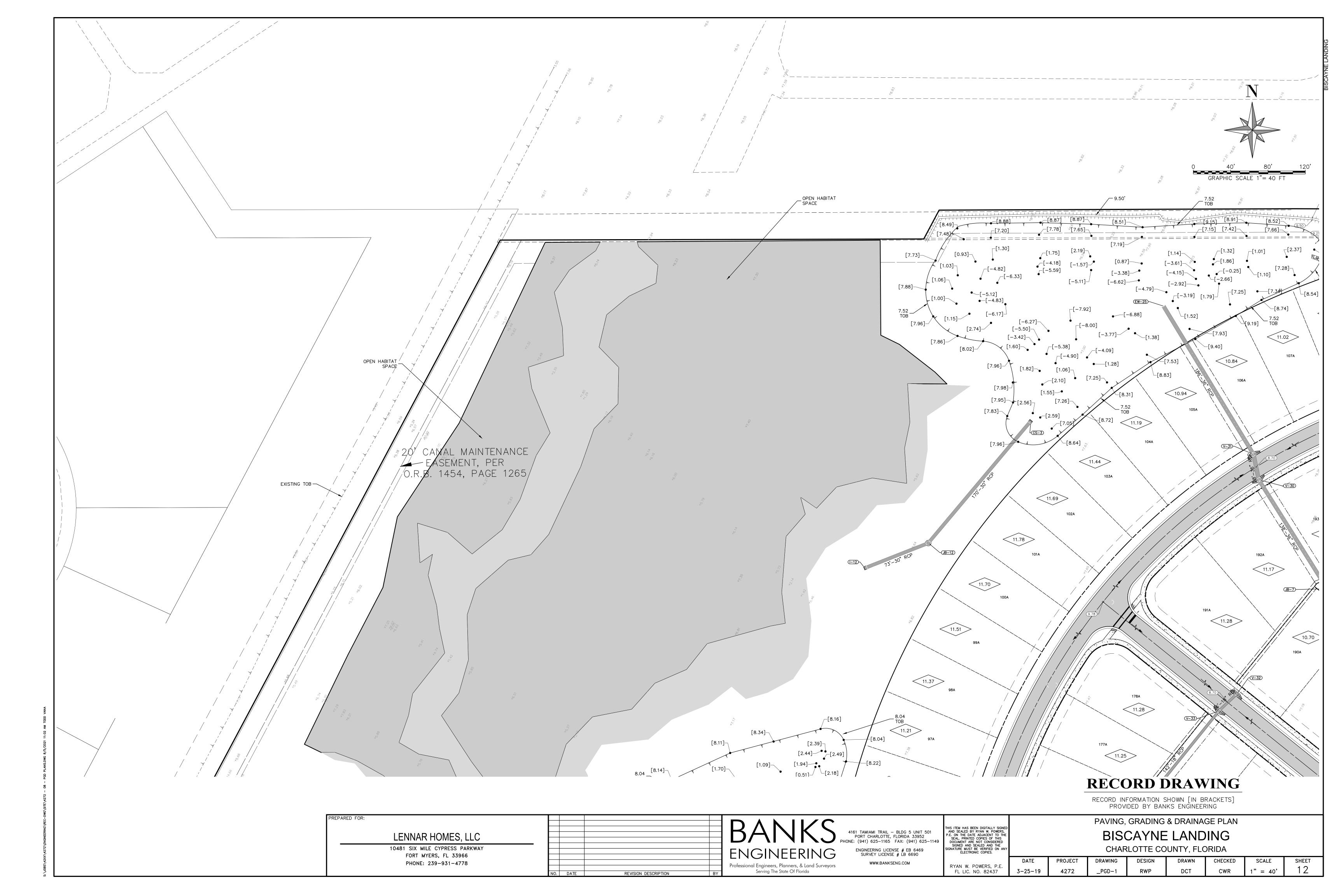


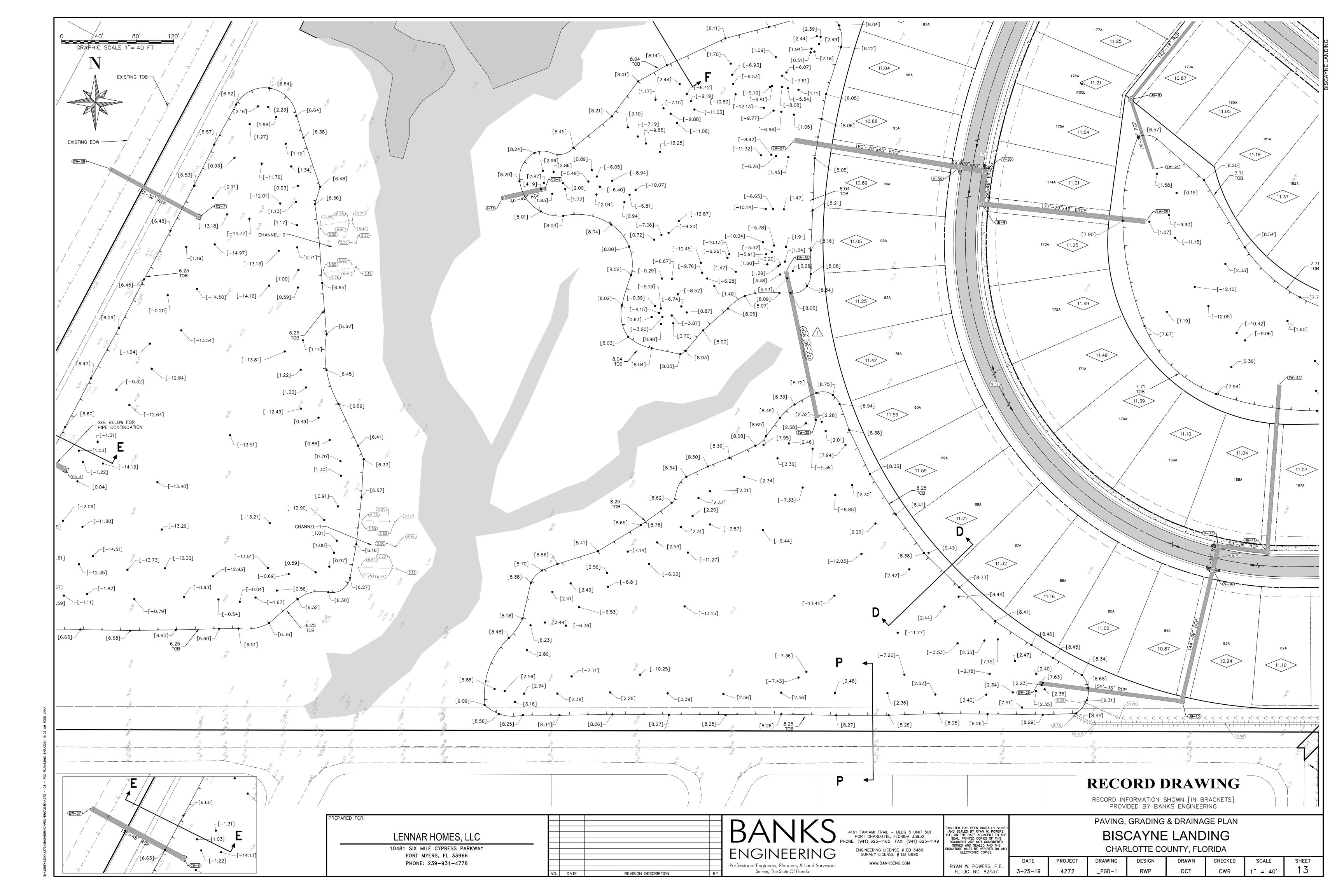


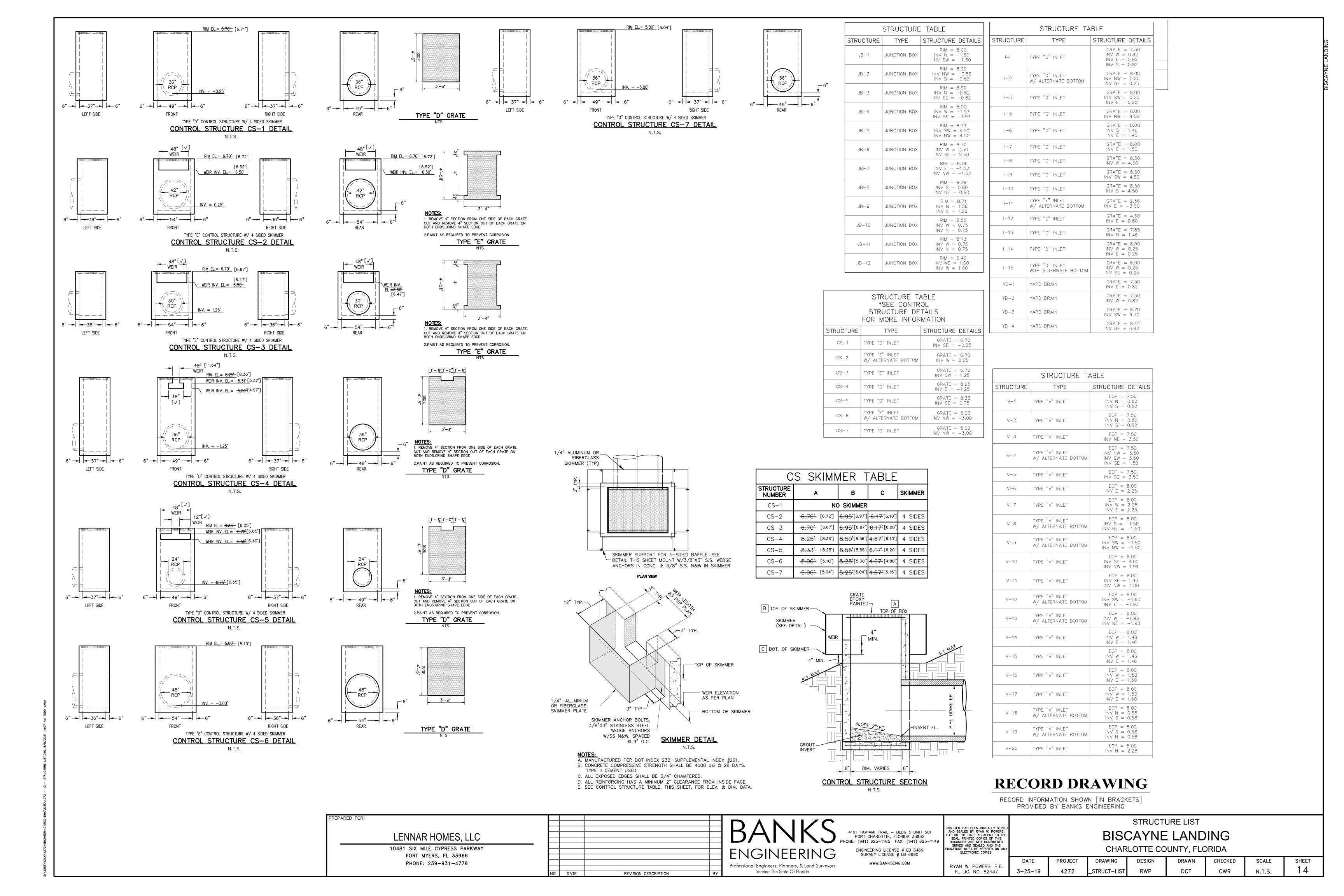


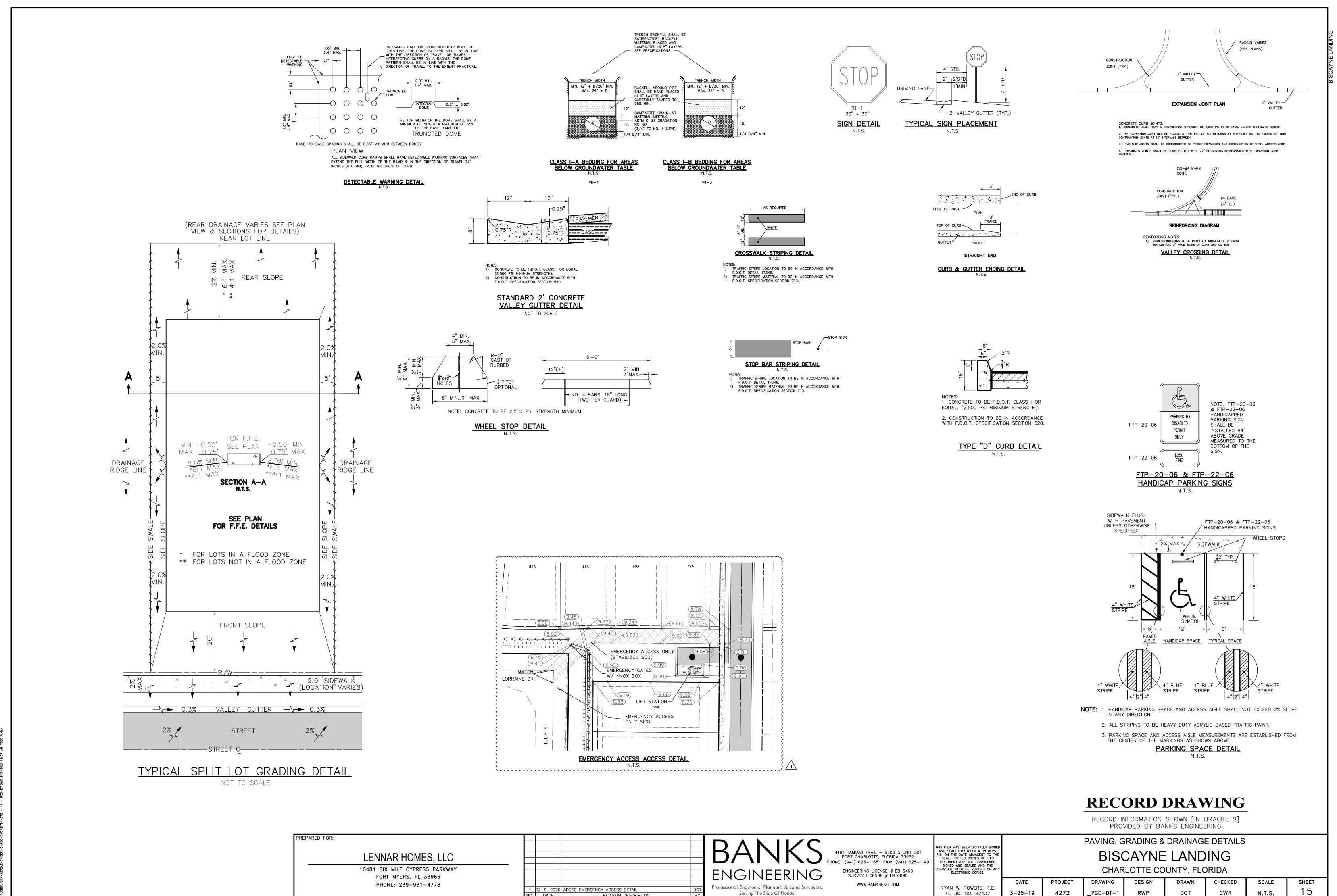


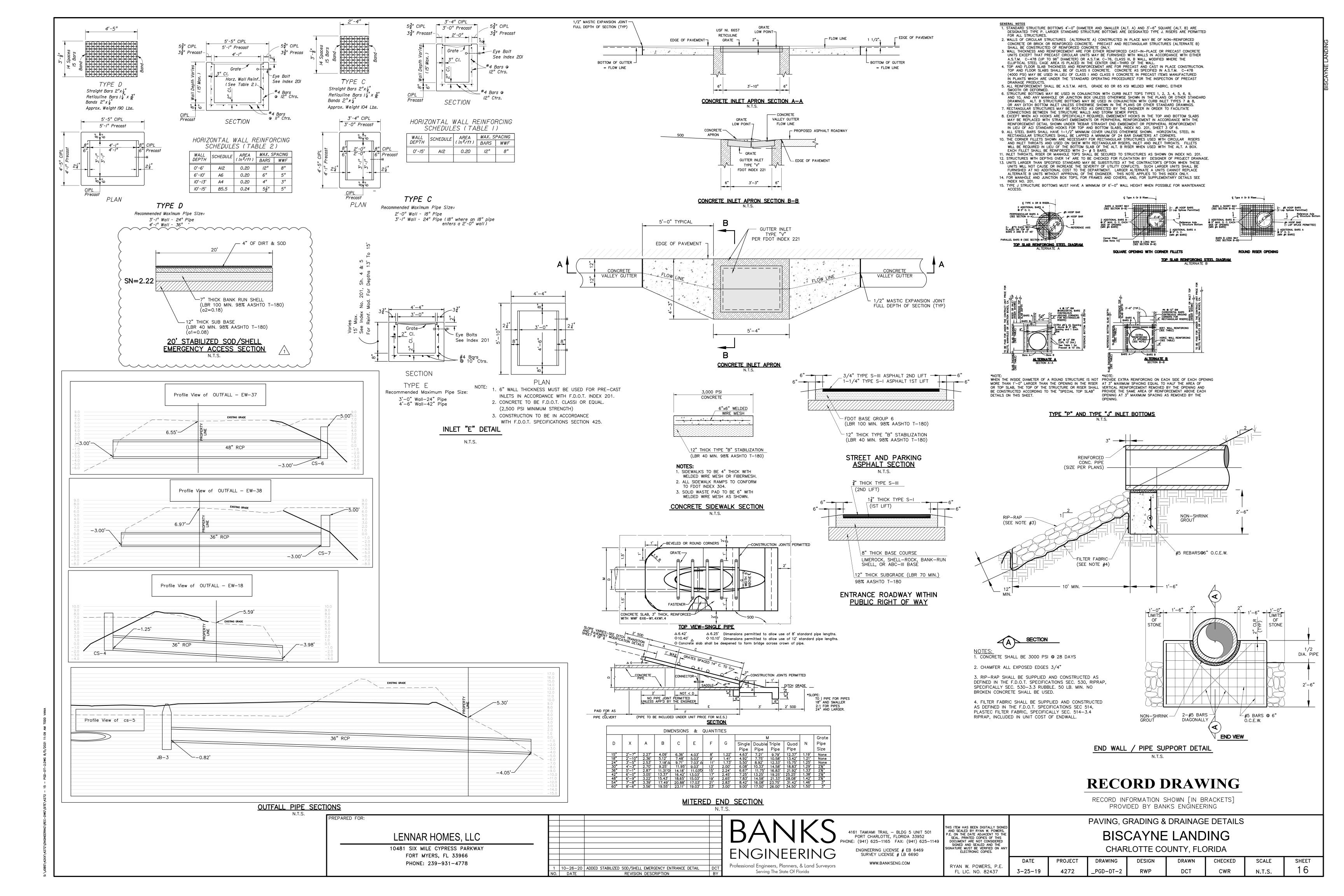


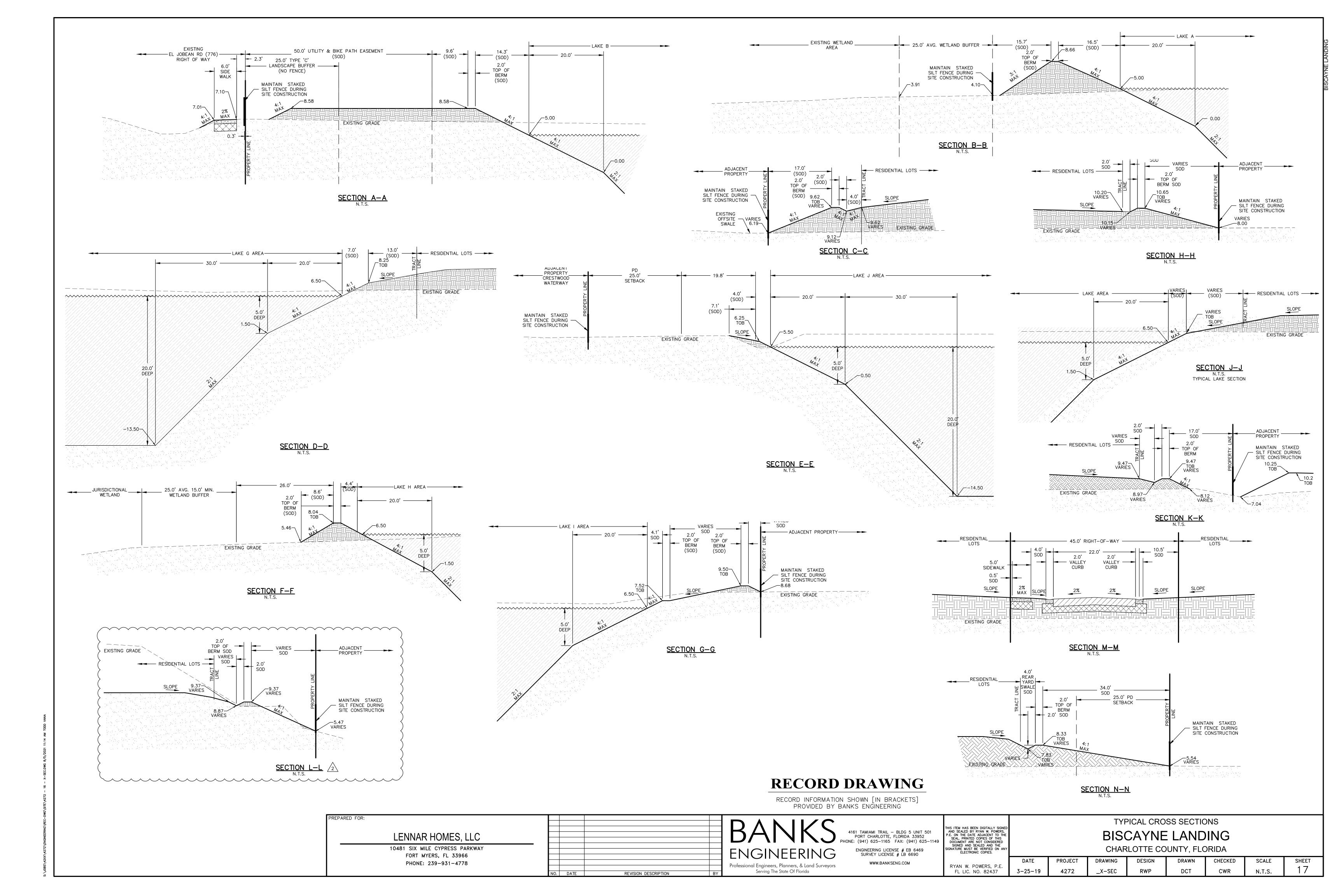


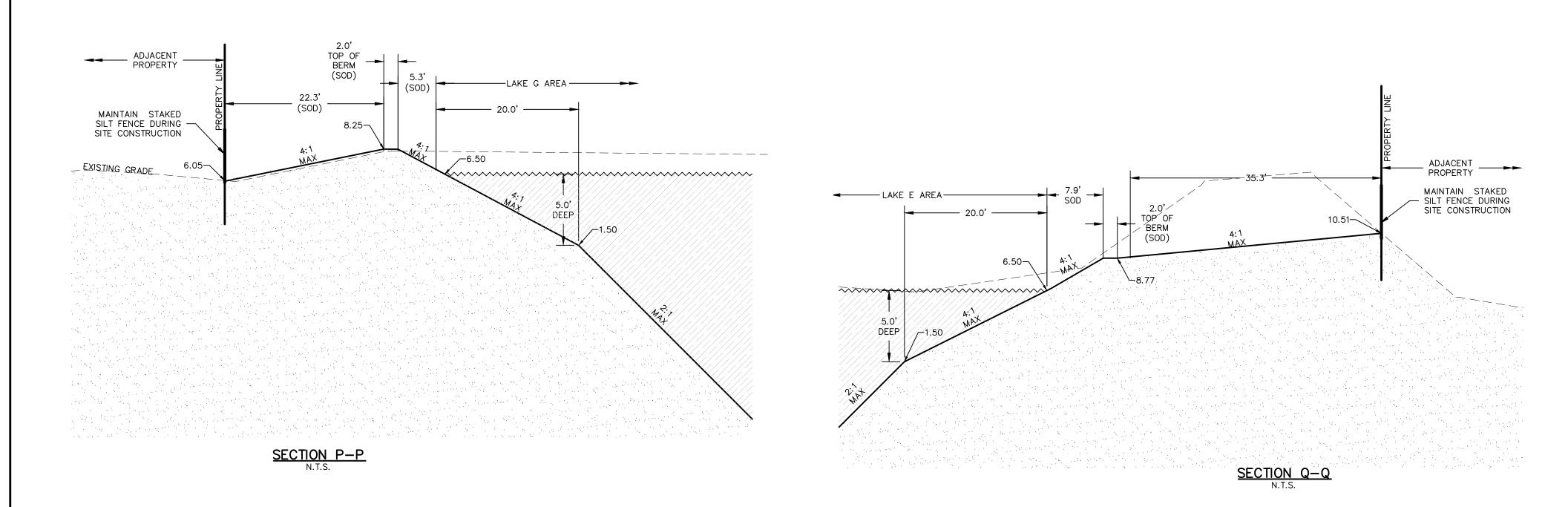


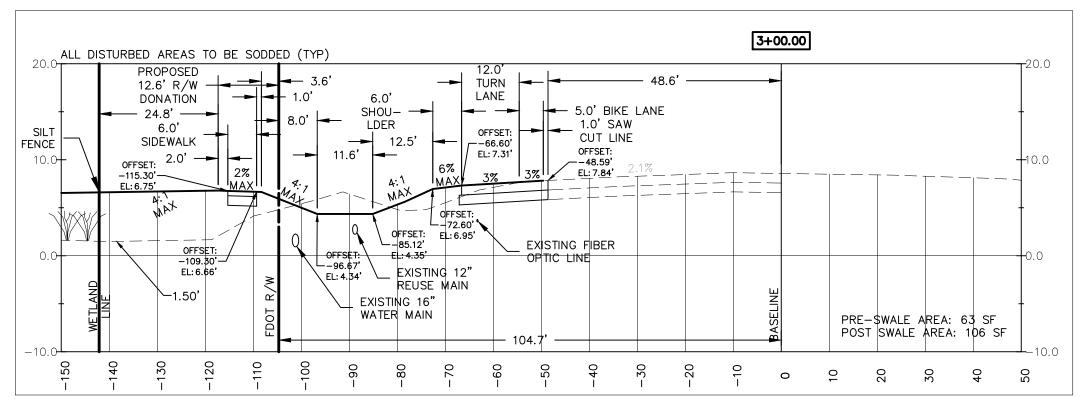




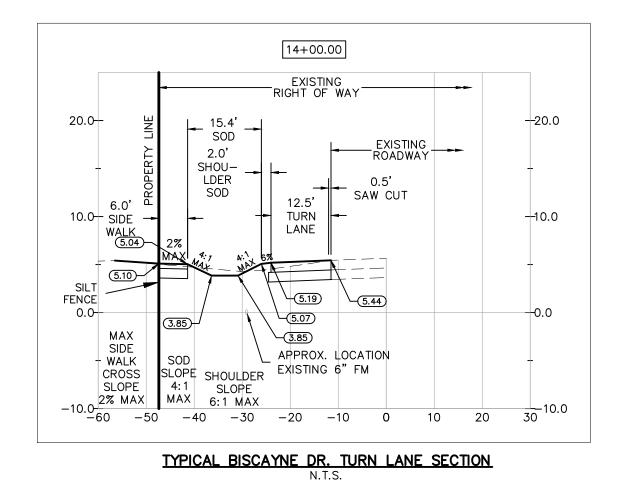








TYPICAL 776 (EL JOBEAN ROAD) TURN LANE SECTION N.T.S.



REVISION DESCRIPTION

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

SCALE

N.T.S.

SHEET

17A

PREPARED FOR: TYPICAL CROSS SECTIONS THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY RYAN W. POWERS, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. 4161 TAMIAMI TRAIL — BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625—1165 FAX: (941) 625—1149 BISCAYNE LANDING LENNAR HOMES, LLC 10481 SIX MILE CYPRESS PARKWAY CHARLOTTE COUNTY, FLORIDA ENGINEERING LICENSE # EB 6469 SURVEY LICENSE # LB 6690 ENGINEERING FORT MYERS, FL 33966 PROJECT DRAWING DESIGN DRAWN PHONE: 239-931-4778 Professional Engineers, Planners, & Land Surveyors Serving The State Of Florida WWW.BANKSENG.COM RYAN W. POWERS, P.E. FL LIC. NO. 82437 4272 DCT

Attachment 8 Public Works Department Approval

From: Benjamin, Roy
To: Mastney, Eileen

Cc: Prince, Tara; Jones, Michael; Shao, Jenny; Benjamin, Roy

Subject: RE: Bond Release- FP-19-06-08 Biscayne Landing North

Date: Tuesday, October 14, 2025 2:31:33 PM

Attachments: <u>image002.png</u>

image003.png

I have approved this one in Accela BRR-25-14. Thanks

If you have further concerns please contact me at the information below.

Best Regards,

Roy Benjamin
Construction Services Manager
Charlotte County Public Works
410 Taylor Road, Unit 104
Punta Gorda, Florida 33950
Roy.benjamin@charlottecountyfl.gov

Office (941) 575-3628 Cell (941) 628-8065 Fax (941) 575-3664

To Exceed Expectations in the Delivery of Public Services"



From: Mastney, Eileen < Eileen. Mastney@charlottecountyfl.gov>

Sent: Tuesday, October 14, 2025 12:05 PM

To: Benjamin, Roy <Roy.Benjamin@charlottecountyfl.gov>

Cc: Prince, Tara <TaraG.Prince@Charlottecountyfl.gov>; Jones, Michael

<Michael.Jones@charlottecountyfl.gov>; Shao, Jenny <Jenny.Shao@charlottecountyfl.gov>

Subject: Bond Release- FP-19-06-08 Biscayne Landing North

Good afternoon, Roy

Lennar Homes, Inc. is requesting a Bond Release for FP-19-06-08 Biscayne Landing North. The Accela reference number is BRR-25-14 and I have assigned the reviews to you.