CHARLOTTE COUNTY
FLORIDA

MEMORANDUM

Date: October 15, 2025

To: Honorable Board of County Commissioners

From: Eileen Mastney, Zoning Coordinator
(Exhibit 1 - Professional Qualifications)

Subject: FP-23-01-01 Bond Reduction and First Amendment to the Developer's Agreement for Coral Lakes - Phase 1A

Request:

CC Burnt Store, LLC is requesting a bond reduction and First Amendment to Developer's Agreement to reduce the approved surety provided under Bond No. 5763535, issued by Great American Insurance Company in the amount of $9,134,917.83 to $297,959.64 for the completion of the remaining infrastructure for Coral Lakes – Phase IA. The residential subdivision, consisting of 228 single-family lots and 33 tracts, was granted Final Plat approval by the Board of County Commissioners on July 23, 2024. (**See Attachment 1**). This site contains 306.51± acres and is generally located north of Zemel Road, south of Scham Road, east of Burnt Store Road, west of Green Gulf Boulevard, in the Punta Gorda area, within the boundary of the Burnt Store Area Plan area, and in Commission District II.

At the time of Final Plat application, the applicant was granted approval of a Developer's Agreement (**See Attachment 2)** and surety in the amount of $9,134,917.83, to ensure the completion of the plat infrastructure. Since then, a significant portion of the plat construction has been completed. The Project Engineer has submitted this First Amendment to the Developer's Agreement (**See Attachment 3**) and Bond Reduction request (**See Attachment 4**) for the new Engineer's Estimate of Probable Construction Cost (+10%), along with the watermain record drawings (**See Attachment 5**), sanitary sewer record drawings (**See Attachment 6**), and partial Potable Water Clearance from the Florida Department of Environmental Protection(FDEP)(**See Attachment 7**), reducing the remaining cost to $297,959.64.

The County Engineer has found the new bond amount sufficient for completion of the project **(See Attachment 8).**

Recommendation:

Community Development recommends approval of the requested First Amendment to the Developer's Agreement and Bond Reduction under Petition **FP-23-01-01.**

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

FP-23-01-01 Coral Lakes - Phase 1A Final Plat Decision Letter

CHARLOTTE COUNTY
FLORIDA

August 13, 2024

CC Burnt Store, LLC — Via email: ksmith@eisenhowerpropertygroup.com
D.R. Horton, Inc. — Via email: JWEverett@drhorton.com

Dear Applicant:

This letter is to confirm the decision of the Charlotte County Board of County Commissioners at their meeting held **July 23, 2024, at 2:00 P.M.**, regarding the following petition:

FP-23-01-01 **Quasi-judicial** **Commission District II**
CC Burnt Store, LLC is requesting Final Plat approval for a residential subdivision to be named, Coral Lakes – Phase IA, consisting of 228 single-family lots and 33 tracts. The proposed subdivision is a residential development that received Preliminary Plat approval from the Board of County Commissioners under PP-23-01-01 on June 13, 2023. They also seek approval of a Developer's Agreement and surety to cover the construction of the plat infrastructure. This site contains 306.51± acres and is located at 12300 and 13000 Burnt Store Road (Rd), north of Zemel Rd, south of Scham Rd, east of Burnt Store Rd, and west of Green Gulf Boulevard. The properties are in the Punta Gorda area, within the boundary of the Burnt Store Area Plan area, and in Commission District II.

It was the decision of the Charlotte County Board of County Commissioners that Petition **FP-23-01-01** be approved. The plat was recorded on August 2, 2024, under **INSTR #: 3434825** in **Plat Book 27, Pages 14A through 14Y**, and the Developer's Agreement was recorded on August 2, 2024, under **INSTR #: 3434826** of the Public Records of Charlotte County, Florida.

This letter also serves as your Certificate of Concurrency for the purpose of School Concurrency.

Please feel free to contact our office should you have any questions.

Sincerely,

Jenny Shao

Jenny Shao, Planner
Community Development Department

CC: Heather Polito and Todd R. Rebol, P.E., Banks Engineering

Attachment 2

FP-23-01-01 Recorded Developer's Agreement

ROGER D. EATON, CHARLOTTE COUNTY CLERK OF CIRCUIT COURT, PAGE: 1 OF 6
INSTR #: 3434826 Doc Type: AGR, Recorded: 08/02/2024 at 01:16 PM
RECORDING $52.50

Document prepared under the supervision of:
Charlotte County Attorney
18500 Murdock Circle
Port Charlotte, FL 33948

This instrument prepared by:
Derek P. Rooney
Gray Robinson, P.A.
1404 Dean Street, Suite 300
Fort Myers, FL 33901

DEVELOPER'S AGREEMENT

THIS DEVELOPER'S AGREEMENT ("Agreement") is made this 23rd day of July, 2024, by and between CHARLOTTE COUNTY, a political subdivision of the State of Florida, herein called "County" and CC BURNT STORE, LLC, with an address of 111 S. Armenia Avenue, Tampa, Florida 33609 herein called "Developer".

W I T N E S S E T H

WHEREAS, Developer is the fee simple owner of the lands described in Exhibit "A", attached hereto and incorporated herein by reference (hereinafter, "Property"); and

WHEREAS, Developer intends to subdivide the Property and develop a project under the name of CORAL LAKES – PHASE IA and cause a plat of the same name to be recorded in the Public Records of Charlotte County, Florida (the "Plat"); and

WHEREAS, the Plat is identified in Charlotte County Community Development Department Files as #FP-23-01-01; and

WHEREAS, Developer is required to construct certain improvements within the Property in accordance with County Standards, and construction plans and specifications approved by the County; and

WHEREAS, Developer submitted plans prepared by Banks Engineering dated October 30, 2023 for final construction plan approval (hereinafter, "Plans"). The Plans were approved by County on NOVEMBER 7, 2023 under DRC-23-00184 via Resolution Number 2023-240, signed by the Board of County Commissioners on December 12, 2023, and recorded on December 13, 2023. The Plans depict certain subdivision improvements which must be required to be constructed prior to receiving certificates of occupancy for structures to be constructed on the Property; and

WHEREAS, Developer and County desire to enter into this Agreement to set forth certain obligations by the Developer and County in connection with the construction on the improvements; and

WHEREAS, the intent of this Agreement is to provide the required financial assurances for the construction of the improvements pursuant to the provisions of Section 3-7-65 of the Charlotte County Code of Laws and Ordinances and 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. The foregoing recitals are true and correct and incorporated herein by this reference.

2. Developer agrees to complete the subdivision improvements shown on the Plans. Developer is required to construct the improvements as set forth in the Engineer's Probable Cost Estimate dated January 31, 2024, according to the sound engineering standards and County Subdivision Regulations, and according to the engineering plans and specifications submitted by the Developer to the County, as approved by the County.

3. In order to guarantee Developer's adherence to the obligations under this Agreement, Developer has provided a bond in the amount of NINE MILLION ONE HUNDRED THIRTY-FOUR THOUSAND NINE HUNDRED SEVENTEEN AND 83/100 DOLLARS ($9,134,917.83), which includes the required, additional ten percent (10%) security, (hereinafter, the "Security") to ensure completion of these subdivision improvements depicted on the approved Plans which have not, to date, been certified as complete.

4. Said Security shall remain in effect until final approval of the improvements by the County. Any reduction of the Security shall follow Charlotte County policy and Developer will be required to provide the applicable fee along with the record drawings and recommendation signed and sealed by the engineer of record. The reduction of the Security must be approved by the County prior to Developer reducing the Security amount.

5. All improvements as shown on the Plans must be completed per the approved Plans to the satisfaction of the County Engineer no later than two (2) years after the date that the Plat is recorded in the Public Records of Charlotte County, Florida. If the work is not completed within two (2) years, the County Engineer shall have the right to review the surety amount, and if deemed insufficient, Developer may be required to provide additional surety and execute an amendment to this Agreement to reflect the increased surety. Said amendment shall be recorded in the same manner as this Agreement.

6. If the subdivision improvements depicted in the Plans are not completed as provided herein, or if the County receives notification from the institution issuing the Security that the Security will expire prior to the specified time period stated herein, it is expressly understood and acknowledged by the Parties that:

(a) Notwithstanding any notice and cure requirements in this Agreement, the County may, at its sole and absolute discretion, request and/or utilize the outstanding amount of the Security;

(b) In the event of litigation, no party, including but not limited to the Owner, Developer, future lot owners, successors and assigns, is entitled to an offset of damages in an amount equal to the Security.

7. There are no intended third-party beneficiaries to this Agreement, therefore, no third parties may rely on this agreement and/or Security, including but not limited to future lot owners or their successors and assigns

8. 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 this Agreement and/or the Security.

9. County's consent, approval and acknowledgement herein granted shall not limit the County's right to approve or deny other development on the Property as provided by all laws, rules and regulations applicable to the Property.

10. Upon certification by a licensed engineer that the subdivision improvements have been completed in substantial compliance with the Plans and the terms of this Agreement have been met, or upon replacement of the Security and execution of a new development agreement by a subsequent developer, County shall release the Security and this agreement shall terminate.

11. This Agreement shall inure to the benefit of and be obligatory upon the Parties and their respective successors, assigns, heirs and personal representatives.

12. The terms of this Agreement have been jointly drafted by the Parties; therefore, in construing this Agreement no legal presumptions shall arise against either Party as the drafter of the Agreement.

13. The invalidity or unenforceability of any one or more provisions of this Agreement shall not affect the validity or enforceability of the remaining portions of this Developer's Agreement, or any part of this Agreement not held to be invalid or unenforceable.

14. This Agreement may be executed in counterparts, each of which shall constitute an original, but all taken together shall constitute one and the same Developer's Agreement.

15. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. Venue for any proceeding brought hereunder shall be Charlotte County, Florida.

[Signature pages to follow]

IN WITNESS WHEREOF, County and Developer have executed this Developer's Agreement on the date first above written.

CHARLOTTE COUNTY, a political Subdivision of the State of Florida

By: _____
William G. Truex, Chairman

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

By: _____
Deputy Clerk

APR 2024-117

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY:

By: _____
Janette S. Knowlton, County Attorney
LSR: 2024-0397

DEVELOPER
CC Burnt Store LLC
111 S. Armenia Avenue
Tampa, Florida 33609

1st Witness Signature

By: _____
Authorized Signature

KYLE SMITH
1st Witness Printed Name

Authorized Representative
Title

2nd Witness Signature

Nicholas Dister
Printed Name

Austin Zeiss
2nd Witness Printed Name

ACKNOWLEDGEMENT

State of FLORIDA
County of Hillsborough

The foregoing instrument was acknowledged before me, by means of ☑ physical presence or ☐ online notarization, this 18 day of JUNE, 2024 by Nicholas Dister, Authorized Representative, who [✓] is personally known to me or [ ] has produced _____ as identification and did/did not take an oath.

My commission expires:

Notary Public

BRIAN ROSE
Printed name of Notary Public

HH334061
Serial or commission number

(Notary Seal)

BRIAN ROSE
Commission # HH 334061
Expires March 4, 2027

EXHIBIT "A"
(Legal Description of Property)

A TRACT OR PARCEL OF LAND SITUATED IN THE STATE OF FLORIDA, COUNTY OF CHARLOTTE, LYING IN SECTIONS 4 AND 9, TOWNSHIP 42 SOUTH, RANGE 23 EAST, BEING FURTHER BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 9; THENCE S.89°37'14"W. ALONG THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 9 FOR 2134.63 FEET TO THE POINT OF BEGINNING, SAID POINT HAVING A STATE PLANE COORDINATE OF NORTH:912406.30, EAST:652314.54; THENCE S.03°05'00"E. FOR 2086.83 FEET TO A POINT HAVING A STATE PLANE COORDINATE OF NORTH:910322.49, EAST:652426.79; THENCE S.89°51'50"W. FOR 3098.66 FEET TO A POINT ON THE NEW RIGHT-OF-WAY LINE PER BSR2-133-FEE ACQUISITION, AS RECORDED IN OFFICIAL RECORDS BOOK 4419, PAGE 1578, PUBLIC RECORDS OF CHARLOTTE COUNTY, FLORIDA; THENCE ALONG SAID NEW RIGHT-OF-WAY LINE THE FOLLOWING 13 COURSES: N.00°08'20"W. FOR 1100.49 FEET; THENCE N.89°51'40"E. FOR 274.00 FEET; THENCE N.00°08'20"W. FOR 466.37 FEET; THENCE N.45°08'20"W. FOR 203.12 FEET; THENCE S.89°51'40"W. FOR 130.37 FEET; THENCE N.00°08'20"W. FOR 359.73 FEET; THENCE N.89°31'21"E. FOR 658.64 FEET; THENCE N.03°12'44"W. FOR 671.94 FEET; THENCE N.89°58'51"W. FOR 635.27 FEET; TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 10090.00 FEET, A DELTA ANGLE OF 00°21'24", A CHORD BEARING OF N.03°11'18"W., AND A CHORD DISTANCE OF 62.81 FEET; THENCE ALONG THE ARC OF SAID CURVE A FOR 62.81 FEET; THENCE N.03°22'00"W. FOR 618.82 FEET; THENCE S.88°42'23"E. FOR 416.38 FEET; THENCE N.03°22'00"W. FOR 621.06 FEET; THENCE N.89°11'40"W. FOR 416.10 FEET; THENCE N.03°22'00"W. FOR 713.71 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 4; THENCE N.89°57'21"E. ALONG SAID NORTH LINE FOR 2980.67 FEET; THENCE S.01°36'53"E. FOR 1204.83 FEET;THENCE S.88°23'07"W. FOR 27.20 FEET; THENCE S.01°36'53"E. FOR 70.00 FEET; THENCE N.88°23'07"E. FOR 27.20 FEET; THENCE S.01°36'53"E. FOR 1394.00 FEET TO A POINT ON THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 9; THENCE N.89°37'14"E. ALONG SAID NORTH LINE FOR 67.87 FEET TO THE POINT OF BEGINNING,

BEARINGS ARE BASED ON "THE STATE PLANE COORDINATE SYSTEM" FLORIDA ZONE WEST, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT - EPOCH 2010) AND WERE DERIVED FROM THE FLORIDA PERMANENT REFERENCE NETWORK SITE CODE "PNTA", IN U.S. FEET WHEREIN THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 9, TOWNSHIP 42 SOUTH, RANGE 23 EAST BEARS S.89°37'14"W.

Attachment 3

Proposed First Amendment to the Developer's Agreement

Document prepared under the supervision of:
Charlotte County Attorney
18500 Murdock Circle
Port Charlotte, FL 33948

This instrument prepared by and after recording return to:
Kyle Smith, P.E.
CC Burnt Store, LLC
111 S. Armenia Avenue
Tampa, FL 33609

FIRST AMENDMENT TO DEVELOPER'S AGREEMENT

THIS FIRST AMENDMENT TO DEVELOPER'S AGREEMENT ("Amendment") is made this 25th day of November, 2025, by and between CHARLOTTE COUNTY, a political subdivision of the State of Florida, herein called "County", and CC Burnt Store, LLC, with an address of 111 S. Armenia Avenue, Tampa, Florida 33609, herein called "Developer", and collectively referred to as "parties."

WITNESSETH

WHEREAS, Developer is the fee simple owner of the lands described in Exhibit "A", attached hereto and incorporated herein by reference (hereinafter, "Property"); and

WHEREAS, Developer previously subdivided the Property pursuant to that certain Plat of Coral Lakes - Phase IA, according to the plat thereof recorded on August 2, 2024 in Plat Book 27, Pages 14A through 14Y of the Public Records of Charlotte County, Florida (the "Plat"); and

WHEREAS, in connection with the Plat, County and Developer entered into that certain Developer's Agreement recorded on August 2, 2024, Instrument #: 3434826 of the Public Records of Charlotte County, Florida (the "Developer's Agreement"), pursuant to which Developer provided a bond in the amount of NINE MILLION ONE HUNDRED THIRTY-FOUR THOUSAND NINE HUNDRED SEVENTEEN AND 83/100 DOLLARS ($9,134,917.83), defined in the Developer's Agreement as the "Security," to ensure completion of those subdivision improvements depicted on the Plans; and

WHEREAS, a portion of the subdivision improvements shown on the approved plans have been certified as completed in substantial compliance with the Plans by a licensed engineer; and

WHEREAS, County and Developer have agreed to amend the Developer's Agreement to facilitate the reduction of the amount of security necessary to ensure completion of remaining improvements for the Plat; and

WHEREAS, the intent of the Developer's Agreement and this First 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. Developer agrees to complete the subdivision improvements shown on the Plans, as set forth in the Engineer's Probable Cost Estimate dated July 1, 2025, which have not yet been certified as complete, no later than June 15, 2027.

2. County hereby reduces the amount of the Security from $9,134,917.83 to $297,959.64 (the "Second Security"), which includes the required, additional ten percent (10%) security, and Developer shall provide a new bond or rider to the existing bond (Bond No. 5763535) in such amount. The parties agree that the Developer's Agreement remains in full force and effect, except as modified herein.

3. Except as amended herein, the remaining terms and provisions of the Developer's Agreement shall remain in full force and effect as if originally set forth therein.

4. This Amendment may be executed in counterparts, each of which shall constitute an original, but all taken together shall constitute one and the same Agreement.

[Signature pages to follow]

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

CHARLOTTE COUNTY, a political Subdivision of the State of Florida

By:_____
Joseph M. Tiseo, Chairman

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

By: _____
Deputy Clerk

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY:

By:_____
Janette S. Knowlton, County Attorney
LR25-~~0938~~ 0940 KMM

DEVELOPER
CC Burnt Store, LLC
111 S. Armenia Avenue
Tampa, FL 33609

By: _____

Nicholas Dister
Printed Name

Authorized Representative
Title

_____
1st Witness Signature

Tiffany Jennings
1st Witness Printed Name

111 S. Armenia Ave.
1st Witness Address

Tampa, FL 33609
1st Witness Address (cont.)

_____
2nd Witness Signature

Austin Berns
2nd Witness Printed Name

111 S. Armenia Ave.
2nd Witness Address

Tampa, FL 33609
2nd Witness Address (cont.)

ACKNOWLEDGEMENT

State of Florida
County of Hillsborough

The foregoing instrument was acknowledged before me, by means of ☒ physical presence or ☐ online notarization, this 27 day of October, 2025 by Nicholas Dister, Authorized Representative, who ☒ is personally known to me or [ ] has produced _____ as identification and did/did not take an oath.

My commission expires: 09/27/28

Notary Public

Tiffany Jennings
Printed name of Notary Public

(Notary Seal)

TIFFANY JENNINGS
Notary Public - State of Florida
Commission # HH 641324
My Comm. Expires Sep 27, 2028
Bonded through National Notary Assn.

HH641324
Serial or commission number

EXHIBIT "A"
(Legal Description of Property)

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BEARINGS ARE BASED ON "THE STATE PLANE COORDINATE SYSTEM" FLORIDA ZONE WEST, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT - EPOCH

2010) AND WERE DERIVED FROM THE FLORIDA PERMANENT REFERENCE NETWORK SITE CODE "PNTA", IN U.S. FEET WHEREIN THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 9, TOWNSHIP 42 SOUTH, RANGE 23 EAST BEARS S.89°37'14"W.

Attachment 4

Applicant's Request for a Bond Reduction and Amendment to the Developer's Agreement

BANKS ENGINEERING

Professional Engineers, Planners & Land Surveyors

July 1, 2025

Ms. Jenny Shao
Charlotte County Land Development
18400 Murdock Circle
Port Charlotte, Florida 33948

RE: CORAL LAKES – PHASE IA
FP-23-01-01
BOND REDUCTION REQUEST

Dear Ms. Shao,

On behalf of our client, CC Burnt Store, LLC, please accept this letter as a formal request to reduce the current performance bond amount for the referenced project based on the information enclosed.

Coral Lakes – Phase IA is a residential subdivision with private streets that was originally platted by Charlotte County in August 2024. Along with the recording of Coral Lakes – Phase IA, a performance bond in the amount of $9,134,917.83 was provided to the county to cover the cost of the required subdivision improvements. At this time, construction of the Coral Lakes – Phase IA subdivision improvements has been substantially completed except for the second lift of asphalt and sidewalks.

A new Engineer's Estimate of Probable Construction Cost for this work, including a 10% contingency, is attached. Also enclosed is a draft Amendment to Developer's Agreement that reflects the new bond amount of $297,959.64 along with the final certifications and record drawings.

The original amended performance bond in the amount of $297,959.64 will be submitted under separate cover once the BOCC approves this request.

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

Sincerely,
BANKS ENGINEERING

Clayton W. Rebol, P.E.
Vice President

Cc: file, CC Burnt Store, LLC

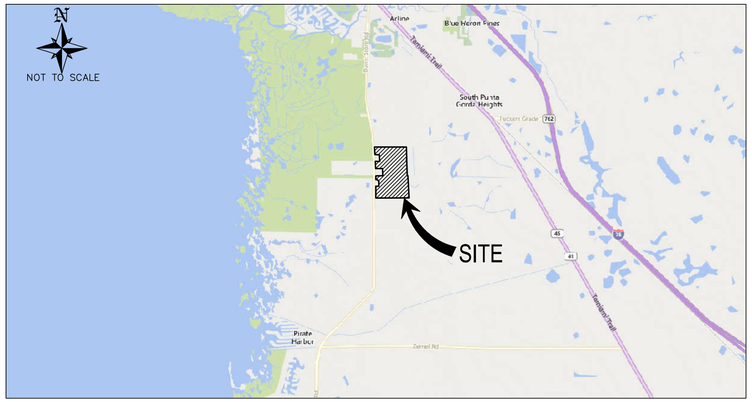
S:\Jobs\45xx\4570C\DOCUMENTS\COUNTY\Bond Reduction\County_bond reduction letter.docx

Attachment 5

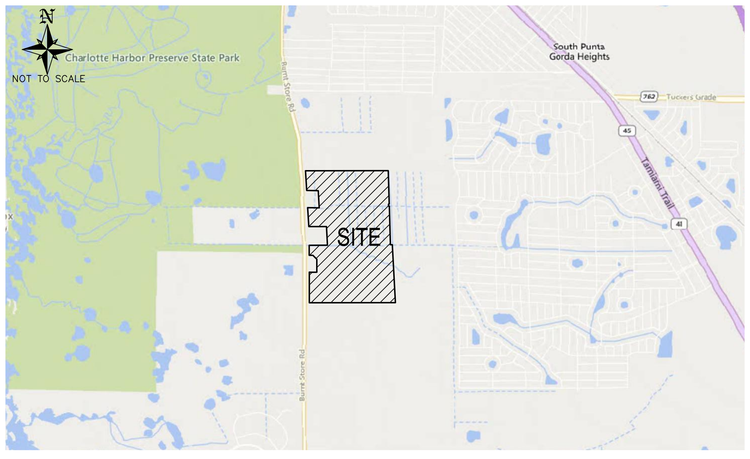
Watermain Record Drawings

CORAL LAKES - PHASE I

PHASES 1A AND 1B
WATERMAIN RECORD DRAWINGS



GENERAL LOCATION MAP



SPECIFIC LOCATION MAP

SECTION 4 & 9, TOWNSHIP 42 SOUTH, RANGE 23 EAST
CHARLOTTE COUNTY, FLORIDA

SITE INFORMATION

PROJECT AREA:	306.51 AC (TOTAL)
PARCEL STRAP NUMBER:	422304300005 422309200006
PARCEL ADDRESS:	13000 BURNT STORE ROAD PUNTA GORDA, FL. 33955
CURRENT ZONING:	ZONING PD
PROPOSED USE:	RESIDENTIAL MULTI-FAMILY

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

UTILITY SERVICE PROVIDERS

WATER:	CHARLOTTE COUNTY UTILITIES	25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764-4300
SEWER:	CHARLOTTE COUNTY UTILITIES	25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764-4300
ELECTRIC:	FLORIDA POWER AND LIGHT	2245 MURPHY CT. NORTH PORT, FL 34289 PHONE: (800) 375-8490
PHONE:	CENTURYLINK	4195 KINGS HIGHWAY PORT CHARLOTTE, FL 33980 PHONE: (941) 637-5141
CABLE:	COMCAST	12600 WESTLINKS DRIVE, STE 4 FORT MYERS, FL 33913 PHONE: (239) 318-1525
FIRE PROTECTION:	CHARLOTTE COUNTY FIRE/EMS	26571 AIRPORT RD. PUNTA GORDA, FL 33982 PHONE: (941) 833-5600
SOLID WASTE DISPOSAL:	WASTE MANAGEMENT	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	4161 TAMIAMI TRAIL - BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625-1165
SURVEYOR:	BANKS ENGINEERING RICHARD M. RITZ, RLS	4161 TAMIAMI TRAIL - BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625-1165
ENVIRONMENTAL:	PASSARELLA & ASSOCIATES INC.	13620 METROPOLIS AVENUE SUITE 200 FORT MYERS, FL 33912 PHONE: (239) 274-0067
ARCHITECT:		
LANDSCAPE ARCHITECT:	JOHN T. SWEN, P.A.	P.O. BOX 494466 PORT CHARLOTTE, FL 33949 PHONE: (941) 626-7365
TRAFFIC ENGINEER:	KIMLEY HORN	201 N. FRANKLIN ST. SUITE 1400 TAMPA, FL. 33602 PHONE: (813) 635-5523

"I HEREBY CERTIFY THE UTILITY CERTIFICATION LOCATION INFORMATION OF THE WATER, SEWER, AND RECLAIMED FACILITIES SHOWN ON THESE DRAWINGS CONFRORMS TO THE STANDARDS OF PRACTICES FOR LAND SURVEYORS RULE 5J-17 F.A.C. PURSUANT TO FLORIDA STATUES 472.027 AND SPECIAL INSTRUCTIONS AND THAT SAID UTILITY CERTIFICATION DRAWINGS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED UNDER MY DIRECTION."

BANKS
ENGINEERING
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

REUSE WATER METER TALLY		
IRRIGATION	# OF METERS	METER SIZE
IRRIGATION	1	2
10.52 acres x 43,560 = 458,251 sf		
458,251/12 = 38,188 CF		
38,188 CF x 7.481 Gallons = 285,684 GPWeek		
285,684 GPW/7 = 40,812 GPD		

CCU PROJECT NUMBER: 23-1026

"CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CHARLOTTE COUNTY UTILITIES (CCU) STANDARDS AND SPECIFICATIONS. PLANS ARE IN ACCORDANCE WITH CCU MINIMUM DRAWING REQUIREMENTS DATED MARCH 1, 2023. STATE PLANE COORDINATES WILL BE SUPPLIED FOR THE RECORD DRAWINGS."

ERC Tally- Phase IA

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	229	1.0	229.0	229.0
Recreation Area	1.5"	1	5.0	5.0	5.0
	Total	230		234.0	234.0

ERC Tally- Phase IB

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	93	1.0	93.0	93.0
	Total	93		93.0	93.0

ERC Tally- Phase IC

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	174	1.0	174.0	174.0
	Total	174		174.0	174.0

INDEX OF SHEETS

SHEET	TITLE
1	COVER SHEET
2	GENERAL NOTES
3	PROJECT NOTES AND LEGEND
4	AERIAL AND EXISTING CONDITIONS
5	SITE DEVELOPMENT PLAN
11	MASTER UTILITY PLAN
11A	UTILITY PLAN - A
11B	UTILITY PLAN - B
11C	UTILITY PLAN - C
11D	UTILITY PLAN - D
12	KEY SHEET
13	ROAD A - PLAN & PROFILE
13A	ROAD A - PLAN & PROFILE
14	ROAD B - PLAN & PROFILE
14A	ROAD B - PLAN & PROFILE
14B	ROAD B - PLAN & PROFILE
15	ROAD C - PLAN & PROFILE
16	ROAD D - PLAN & PROFILE
17	ROAD E - PLAN & PROFILE
17A	ROAD E - PLAN & PROFILE
18	ROAD F - PLAN & PROFILE
18A	ROAD F - PLAN & PROFILE
18B	ROAD F - PLAN & PROFILE
19	ROAD G - PLAN & PROFILE
20	ROAD H - PLAN & PROFILE
21	ROAD I - PLAN & PROFILE
21A	ROAD I - PLAN & PROFILE
22	NORTH WATER MAIN CONNECTION - PLAN & PROFILE
22A	NORTH WATER MAIN CONNECTION - PLAN & PROFILE
23	LIFT STATION & RE-USE CONNECTION - PLAN & PROFILE
24	UTILITY DETAILS - 1
25	UTILITY DETAILS - 2
26	UTILITY DETAILS - 3
27	UTILITY DETAILS - 4
28	UTILITY DETAILS - 5
29	UTILITY DETAILS - 6
30	UTILITY DETAILS - 7
31	UTILITY DETAILS - 8
32	RECORD POINT TABLE

RECORD DRAWING

I CERTIFY THAT THESE RECORD DRAWINGS 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.

RYAN W. POWERS, P.E. FL LIC #82437 DATE:

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

S:\JOBS\4570\C\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-01-CVRSHT 4/15/2025 8:33 AM TODD HANA

4570C - CORAL LAKES - PHASE I

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE CONDITIONS FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER A WRITTEN LIST OF ALL PERMITS AND COPIES THEREOF, AND CAREFULLY REVIEW ALL PLANS, SPECIFICATIONS, AND PERMITS PREVIOUSLY SECURED ON BEHALF OF THE OWNER. IN CASE OF ANY DISCREPANCY EITHER IN PERMIT DOCUMENTS, PLANS, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR MUST PROMPTLY SUBMIT A "WRITTEN CLARIFICATION REQUEST" TO THE OWNER, WHO WILL PROMPTLY FORWARD THE REQUEST TO THE ENGINEER WHO WILL MAKE A DETERMINATION IN WRITING. THE CONTRACTOR MUST VERIFY EXISTING FACILITY INFORMATION, AND ALL DESIGN/PERMIT DATA REQUIRED FOR WORK THAT IS TO CONNECT WITH EXISTING FACILITIES. ANY DISCREPANCIES BETWEEN THE CONTRACT REQUIREMENTS AND THE EXISTING CONDITIONS MUST BE REFERRED TO THE OWNER IN WRITING, FOR AN ENGINEERING DETERMINATION. ANY FUTURE ADJUSTMENT DUE TO FAILURE BY THE CONTRACTOR TO IDENTIFY THE RELATED DISCREPANCY, WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LICENSES, ADDITIONAL PERMITS, AND FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY:

THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE STATE OF FLORIDA ROADWAY AND 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 AND INDEMNIFY THE OWNER AND THE ENGINEER OF RECORD, THEIR OFFICERS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/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 AND APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALL PROJECT MATERIALS AND COMPONENTS. THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND 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 PROVIDED:

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.
2. EASEMENT ACKNOWLEDGEMENT.
3. AFFIDAVIT.
4. RELEASE OF LIEN.
5. BILL OF SALE.
6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER.
7. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD, SUBMIT TWO REPRODUCIBLE COPIES OF PRINTS.
8. DETAILED COST OF CONSTRUCTION: MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST AND 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).
12. PRESSURE TEST REPORT(S).
13. INFILTRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES AND LAMPING REPORTS.
14. LIFT STATION INSPECTION (START-UP) REPORT(S) AND 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, AND POWER COMPANIES, 10 DAYS IN ADVANCE, THAT THE CONTRACTOR INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND 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.

PROJECT SIGN:

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CONSTRUCTION PROJECT SIGN AT A LOCATION DIRECTED BY THE 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 RECEIPT OF A NOTICE TO PROCEED. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE THESE SIGNS AND RETURN TO BANKS ENGINEERING, INC. THEIR SIGN.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION:

PROTECTION OF LAND 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 AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL COUNTY AND 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 THROUGH, OR ADJACENT TO THE PROJECT AREA.

1. EROSION AND SEDIMENT CONTROL – ALL PRACTICAL AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR 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 AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, MULCHING, SODDING, SAND BAGGING, BALED HAY OR STRAW, FLOATING SILT BARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
   B. REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
   C. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
   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, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED ON THE PLANS. THE LATEST VERSION OF THE D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

CONTRACTOR RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

PROTECTION OF FISH AND WILDLIFE:

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

RECORDING AND PRESERVING HISTORICAL AND 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 AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

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

1. GENERAL

1.01 SUBMITTALS

A. EROSION AND 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 AND NATURE OF THE WORK, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND 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 AND HOW WATER AFFECTS HIS WORK.

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 INDICATES CERTAIN CONDITIONS FOUND AND 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 AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION.
B. WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED.
C. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION AND HE AGREES THAT THE CONTRACTOR WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD THE CONTRACTOR FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY THE CONTRACTOR.

1.04 BENCHMARKS AND MONUMENTS

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

1.05 JOB CONDITIONS

A. CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
B. PROTECTION
   a. EXISTING STRUCTURES AND PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES; PROVIDE AND PLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSE THEREBY OR RESULTING THEREFROM. IF AT ANY SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.
   b. SIDEWALKS AND 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 AND UTILITIES.
   c. RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH MAY BE 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 AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

2. EXECUTION

2.01 GENERAL

A. ACCOMPLISH IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND 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 AND CODES.
C. INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS AND 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 AND 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 AND BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION AND 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 AND RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.

2.02 LOCATIONS AND ELEVATIONS

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

2.03 CLEARING AND GRUBBING

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

2.04 STRIPPING

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

2.05 EXCAVATION

A. BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND 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, AND OTHER NON-LANDSCAPED AREAS.
D. EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
E. CLASSIFY EXCAVATED MATERIALS AND 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 AND BACKFILL.

2.06 FILLING, BACKFILLING AND COMPACTING

A. THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING AND 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 AND BACKFILLS.
C. FILLING AND 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.

NOTE:

1. ALL ELEVATIONS SHOWN REFERENCE NAVD88 DATUM. THE DATUM SHIFT CONVERSION FACTOR FROM NAVD88 TO NGVD29 FOR THIS PARCEL IN THIS LOCATION IS +1.125'

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 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 AND COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
F. COMPACTION REQUIREMENTS
   a. FILL UNDER LAWNS AND PLANTED: 95%
   b. BELOW SLABS ON GRADE AND CONCRETE WALKS: 98%
   c. UNDER PAVING PARKING AREAS: 98%

2.07 TESTING

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

SUPPLEMENTAL SPECIFICATIONS:

1. GENERAL

THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL SITE DEVELOPMENT STANDARDS AND CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN THE PROJECT SPECIFICATIONS, UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND 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 TRANSPORTATIONS STANDARD 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 AND SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATION ACTIVITIES FOR ALL PUMP STATIONS, MAIN LINES, SERVICE LINES, MANHOLES AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY THE CHARLOTTE COUNTY UTILITIES, GOVERNMENTAL REGULATIONS, OR THE MANUFACTURER'S 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 AND MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, AND BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS AND 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 AND / OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW THE SUB-BASE OR TRENCH BOTTOM AND SHALL BE BACKFILLED WITH THE AASHTO A-3 MATERIAL OR BETTER WITH PLACEMENT AND 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:

1.01 GENERAL

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

1.02 METHOD

A. THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DEWATERING REQUIREMENTS, MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND 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 AND FEDERAL REGULATIONS.
D. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS AND 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:

1.01 QU

ABBREVIATIONS

ABD	ABANDONED
AC	ACRE
ACCEL	ACCELERATION
ADJ	ADJUST
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AM	11:59 MIDNIGHT UNTIL 12:00 NOON
APPL	APPLICATION
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
ASSEM	ASSEMBLY
ATTN	ATTENTION
AUX	AUXILIARY
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
BC	BACK OF CURB
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BE	BURIED ELECTRIC
BEG	BEGIN
BIT	BITUMINOUS
BK	BACK
BL	BASELINE
BLC	BASELINE CONTROL
BLDG	BUILDING
BLKHD	BULKHEAD
BLVD	BOULEVARD
BM	BENCHMARK
BNDRY	BOUNDARY
BOT	BOTTOM
BP	BORROW PIT
BR	BRIDGE
BRG	BEARING
BT	BURIED TELEPHONE
BTFLY	BUTTERFLY
BTWN	BETWEEN
BW	BOTTOM WIDTH
C&G	CURB AND GUTTER
CIP	CAST IN PLACE
CA	COURSE AGGREGATE
CAP	CORRUGATED ALUMINUM PIPE
CASP	CORRUGATED ALUMINIZED STEEL PIPE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CBC	CONCRETE BOX CULVERT
CBS	CONCRETE BOX STRUCTURE
CC	CENTER TO CENTER
CD	CROSS DRAIN
CEM	CEMENT
CF	CUBIC FOOT
CFS	CUBIC FOOT PER SECOND
CH	CHANNEL
CI	CAST IRON
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CLEAR	CLEARANCE
CM	CONCRETE MONUMENT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
COL	COLUMN
COM	COMMERCIAL
COMP	COMPOSITE
CON	CONNECT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORR	CORRUGATED
COV	COVER
CP	CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
CR	CONTROL RADIUS
CRS	COURSE
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CY	CUBIC YARD
CULV	CULVERT
CWE	CONTROL WATER ELEVATION
D	DEPTH
DIA	DIAMETER
DA	DRAINAGE AREA
DBH	DIAMETER AT BREAST HEIGHT
DBI	DITCH BOTTOM INLET
DBL	DOUBLE
DE	DRAINAGE EASEMENT
DECEL	DECELERATION
DEG	DEGREE
DELIN	DELINEATORS
DEPT	DEPARTMENT
DET	DETECTABLE
DFE	DESIGN FLOOD ELEVATION
DGN	DESIGN
DHW	DESIGN HIGH WATER
DHWE	DESIGN HIGH WATER ELEVATION
DHWL	DESIGN HIGH WATER LEVEL
DI	DROP INLET
DIM	DIMENSION
DIST	DISTANCE
DR	DRIVE
DRWY	DRIVEWAY
DS	DESIGN SPEED
DSWT	DRY SEASON WATER TABLE
DT	DITCH
DWG	DRAWING
E	EAST
EOP	EDGE OF PAVEMENT
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELLIP	ELLIPTICAL
EMBED	EMBEDMENT
EMBK	EMBANKMENT
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EST	ESTABLISHED
ESTM	ESTIMATE
ETC	ET CETERA
EW	ENDWALL
EX	EXCEPT
EXC	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTENSION
FL	FLOWLINE
FS	FLORIDA STATUTES
FAC	FLORIDA ADMINISTRATIVE CODE
FC	FRICTION COURSE
FD	FRENCH DRAIN
FDN	FOUNDATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FLOOR ELEVATION
FED	FEDERAL
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FLA	FLORIDA
FLEX	FLEXIBLE
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
FR	FRAME
FT	FOOT OR FEET
FTB	FLOATING TURBIDITY BARRIER
FURN	FURNISH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GAR	GARAGE
GB	GRADE BREAK
GD	GUTTER DRAIN
GIP	GALVANIZED IRON PIPE
GM	GAS MAIN
GP	GRADE POINT
GR	GRADE OR GRATE
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GTTR	GUTTER
GV	GATE VALVE
HS	HIGH STRENGTH
HB	HAY BALES
HC	HANDICAPPED OR HORIZONTAL CLEARANCE
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HNDRL	HANDRAIL
HOA	HOME OWNERS ASSOCIATION
HOR	HORIZONTAL
HP	HIGH POINT OR HIGH PRESSURE
HR	HOUR
HSE	HOUSE
HT	HEIGHT
HW	HIGH WATER
HWY	HIGHWAY
HYD	HYDRAULIC
HZ	HERTZ
ID	INSIDE DIAMETER OR IDENTIFICATION
IN	INCH(ES)
INC	INCORPORATED OR INCLUDING
IND	INDUSTRY
INSTALL	INSTALLED
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
ISECT	INTERSECTION
ISL	ISLAND
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
K	DESIGN HOUR FACTOR
KWH	KILOWATT-HOUR
L	LENGTH
L/W	LIGHTWEIGHT
LA	LIMITED ACCESS
LAT	LATITUDE
LB	POUNDS
LB/SY	POUNDS PER SQUARE YARDS
LBR	LIME ROCK BEARING RATIO
LF	LINEAR FEET (FOOT)
LGTH	LENGTH
LIN	LINEAR
LM	LUMEN
LME	LAKE MAINTENANCE EASEMENT
LMRK	LIME ROCK
LOC	LOCATION
LONG	LONGITUDE
LS	LUMP SUM OR LANDSCAPE
LSB	LANDSCAPE BUFFER
LT	LEFT TURN
LTD	LIMITED
LUM	LUMINAIRE
LX	LUX
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MEDIAN BARRIER
MED	MEDIAN
MES	MITERED END SECTION
MFG	MANUFACTURER
MH	MANHOLE
MHW	MEAN HIGH WATER
MI	MILE
MID	MIDDLE
MIL	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLW	MEAN LOW WATER
MOBL	MOBILIZATION
MOD	MODIFIED
MON	MONUMENT
MOT	MAINTENANCE OF TRAFFIC
MP	MILE POST
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTD	MOUNTED
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
N&C	NAIL AND CAP
N&D	NAIL AND DISK
NA	NOT APPLICABLE
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NE	NORTHEAST
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NHW	NORMAL HIGH WATER
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
OBG	OPTIONAL BASE GROUP
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
OPT	OPTIONAL
OT	OVERHEAD TELEPHONE
PAR	PARALLEL
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCBC	PRECAST CONCRETE BOX CULVERT
PCE	PERMANENT CONSTRUCTION EASEMENT
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PEN	PENETRATION
PG	PROFILE GRADE
PGL	PROFILE GRADE LINE
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PARKING
PKWY	PARKWAY
PL	PROPERTY LINE
PM	12:00 NOON UNTIL 11:59 MIDNIGHT
POC	POINT OF CONNECTION OR POINT OF CURVE
PP	POWER POLE
PR	PAIR
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREST	PRESTRESSED
PRM	PERMANENT REFERENCE MONUMENT
PROD	PRODUCT
PROJ	PROJECT
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSU	PRESTRESSED SLAB UNIT
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
Q	PEAK DISCHARGE OR FLOW VOLUME
R	RADIUS
RT	RIGHT
ROW	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDSD	ROADSIDE
RDWY	ROADWAY
REC	RECREATIONAL
RECT	RECTICULINE
REF	REFERENCE
REFL	REFLECTIVE
REG	REGISTERED
REINF	REINFORCED
RELOC	RELOCATED
REM	REMOVAL
RED	REDUCER
REPL	REPLACE
REQ	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RM	RE-USE MAIN OR REFERENCE MONUMENT
RP	REFERENCE POINT
RPM	RAISED REFLECTIVE PAVEMENT MARKERS
RR	RAILROAD
RSF	RESURFACE
SAN	SANITARY
SB	SOUTHBOUND
SCH	SCHEDULE
SD	STORMDRAIN
SE	SOUTHEAST
SECT	SECTION
SED	SEDIMENT
SEP	SEPARATION
SG	SUBGRADE
SHT	SHEET
SHLDR	SHOULDER
SHW	SEASONAL HIGH WATER
SHWT	SEASONAL HIGH WATER TABLE
SP	SUPER PAVE
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SQ IN	SQUARE INCH
SY	SQUARE YARD
SR	STATE ROAD
SS	SANITARY SEWER OR STAINLESS STEEL
ST	STREET
STA	STATION
STAB	STABILIZATION
STB	STAKED TURBIDITY BARRIER
STD	STANDARD
STGE	STORAGE
STL	STEEL
STR	STRUCTURE
STY	STORY
SUB	SUB SOIL
SUBST	SUBSTITUTE
SUPPTS	SUPPORTS
SUR	SURVEY
SURF	SURFACE
SW	SIDEWALK OR SOUTHWEST
SWMA	STORM WATER MANAGEMENT AREA
SYM	SYMMETRICAL
SYS	SYSTEM
TWP	TOWNSHIP
TAN	TANGENT
TC	TANGENT TO CURVE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TK	TRUCK
THICK	THICKNESS
TIS	TRAFFIC IMPACT STATEMENT
TN	TON
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TRAF	TRAFFIC
TREAT	TREATMENT
TW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNDDR	UNDER DRAIN
USGS	UNITED STATES GEOLOGICAL SERVICE
UTIL	UTILITIES
UV	ULTRAVIOLET
V	VOLT
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
VERT	VERTICAL
VOL	VOLUME
VW	VARIABLE WIDTH
W	WIDTH OR WATT
W/	WITH
WB	WESTBOUND
WM	WATER MAIN
WSWT	WET SEASON WATER TABLE
WT	WATER TABLE
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCING
XING	CROSSING
XSEC	CROSS SECTION
YD	YARD
YR	YEAR

PD CONCEPT PLAN GENERAL NOTES:

1. ALL TRACT LINES SHOWN ARE PRELIMINARY & MAY BE CHANGED DUE TO MARKET CONDITIONS, DESIGN CONSTRAINTS OR PERMITTING REQUIREMENTS AT FINAL DETAIL SITE PLAN APPROVAL.
2. WHERE A LANDSCAPE BUFFER IS REQUIRED, DEVELOPER TO WORK WITH COUNTY STAFF TO DETERMINE IF EXISTING TREES & VEGETATION MEET BUFFER REQUIREMENTS & DETERMINE WHAT ADDITIONAL TREES WILL BE REQUIRED TO MEET COUNTY LANDSCAPE BUFFER MINIMUM REQUIREMENTS.
3. ALL ON-SITE LAKES WILL BE A PART OF THE STORM WATER MANAGEMENT SYSTEM.
4. PROPOSED PROJECT SHALL BE SERVICED BY CENTRAL WATER & SEWER.
5. ALL INTERNAL STREETS ARE PROPOSED TO BE PRIVATE.

DRAINAGE GENERAL NOTES:

1. ALL EXISTING AND PROPOSED ELEVATIONS REFERENCE THE NAVD88 DATUM.
2. 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.
3. ALL BACKFILL SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE BEDDING DETAILS.
4. CONTRACTOR SHALL COORDINATE ALL WORK IN THE COUNTY RIGHT-OF-WAY WITH CHARLOTTE COUNTY.
5. 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 & 941.
6. CONTRACTOR SHALL SOD OR SEED & MULCH ALL DISTURBED AREAS ON-SITE AND OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
7. SOD ALL SWALE AND TREATMENT AREAS.
8. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY
9. 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.
17. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, LATEST EDITION.
18. ALL ROOF DRAINS SHALL BE DIRECTED TOWARD OR CONNECTED TO THE ONSITE STORMWATER MANAGEMENT AREA.

PROJECT INFORMATION:

1. THIS PROJECT PRESENTS NO ADVERSE IMPACTS ON LOCAL GROUNDS OR SURFACE WATERS, AND DOES NOT ADVERSELY IMPACT THE FLOOD ZONE.
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.
3. THE PROJECT DOES NOT IMPACT ANY KNOWN UNMITIGATED WETLANDS.

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. 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.
4. CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS & OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
5. ALL PAVEMENT STRIPING TO BE TWO COATS OF HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.
6. ALUMINUM SIGN BLANKS: ALL SIGN BLANKS & STREET SIGNS SHALL BE FABRICATED FROM ALUMINUM SHEET CONFORMING TO ASTM SPECIFICATION B209, WITH 5052-H38 ALLOY & SHALL HAVE A THICKNESS OF 0.080 INCHES. SIGN BLANK DIMENSIONS, HOLE SIZE, LOCATION OF HOLES, & CORNER RADII SHALL BE AS DEFINED IN THE U.S. DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY MANUAL, & THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. SIGN POSTS: STEEL POSTS SHALL CONFORM TO THE STANDARD SPECIFICATION OF HOT-ROLLED CARBON SHEET STEEL, STRUCTURAL QUALITY, THE CROSS SECTION OF THE POST SHALL BE A SQUARE TUBE FORMED OF 14-GAUGE SQUARE GALVANIZED STEEL POSTS - FULL PUNCH. POSTS TO BE 2"SQUARE, CAREFULLY ROLLED TO SIZE & WELDED IN THE CORNER. THE FURNISHED MEMBERS SHALL BE STRAIGHT & SHALL HAVE A SMOOTH UNIFORM FINISH. ALL SIGN POST OUTSIDE CONCRETED AREAS SHALL BE PLACED WITH HI STRENGTH CONCRETE MIX WITH MEETS OR EXCEEDS ASTM C-387 SPECIFICATIONS. EACH POST SHALL HAVE A MINIMUM OF 20 POUNDS & A MAXIMUM OF 40 POUNDS OF CONCRETE PLACED AROUND EACH POST. THE TOP OF THE CONCRETE SHALL BE A MINIMUM OF 18" BELOW THE FINAL SURFACE. ALL SIGNS PLACED IN CONCRETED AREAS SHALL HAVE A 10"-12"PVC PIPE LINER INSERT SURROUNDING THE SIGN POST. THE PVC SHALL BE FLUSH WITH THE FINAL SURFACE OF THE SURROUNDING CONCRETE & BE FILLED WITH DIRT TO SUPPORT THE SIGN. THESE SHALL NOT BE FILLED WITH CONCRETE.
8. SIGN HEIGHT & LOCATIONS: ALL POST MOUNTED SIGNS SHALL CONFORM TO CURRENT FDOT DESIGN STANDARDS. FOR SIGN INSTALLATIONS IN RESIDENTIAL AREAS WITH NO PAVED SHOULDER, SIDEWALK OR CURB & GUTTER USE THE STANDARD BELOW FOR SIGN PLACEMENT & HEIGHTS.
9. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION.

OPEN SPACE:

OPEN SPACE REQUIRED: 66.0 AC PER PD APPROVAL
OPEN SPACE PROVIDED: (WETLAND WITH BUFFER AREAS + COMMON OPEN SPACE)
= 30.2 AC + 38.01 AC
= 68.21 AC ÷ 306.51 AC = 22.3%

TABLE 1 - SURFACE WATER MANAGEMENT CALCULATIONS

1.1 BASIN SUMMARY AND LAND USE

	B-A (acres)	B-A1 (acres)	B-B (acres)	B-C (acres)	B-D (acres)	B-E (acres)	B-E1 (acres)	B-E2 (acres)	B-E3 (acres)	B-E4 (acres)	B-E5 (acres)	B-E6 (acres)	B-E7 (acres)	B-F (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	15.07	3.73	10.48	31.15	19.94	19.31	1.74	3.97	4.90	2.98	1.79	4.64	4.80	6.39	130.89	
STORMWATER TREAMENT BASIN AREA	15.07	3.73	10.48	31.15	19.94	19.31	1.74	3.97	4.90	2.98	1.79	4.64	4.80	6.39	130.89	100.0%
GREEN SPACE:	6.44	1.85	4.92	8.06	6.77	8.02	0.76	1.99	2.47	1.57	0.80	2.28	2.39	2.28	50.59	38.7%
TOTAL PERVIOUS AREAS	6.44	1.85	4.92	8.06	6.77	8.02	0.76	1.99	2.47	1.57	0.80	2.28	2.39	2.28	50.59	
WET DETENTION:	3.02	0.00	1.27	6.91	7.02	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	24.02	18.4%
ASPHAULT AND ROOF:	5.61	1.88	4.29	16.18	6.15	6.50	0.98	1.98	2.43	1.42	0.99	2.36	2.40	3.11	56.27	43.0%
TOTAL IMPERVIOUS AREA	8.64	1.88	5.56	23.09	13.17	11.29	0.98	1.98	2.43	1.42	0.99	2.36	2.40	4.11	80.29	

	B-G (acres)	B-G1 (acres)	B-G2 (acres)	B-G3 (acres)	B-H (acres)	B-I (acres)	B-J (acres)	B-K (acres)	B-L (acres)	B-M (acres)	B-N (acres)	B-N1 (acres)	B-O (acres)	B-P (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	11.90	1.24	2.22	2.60	5.79	5.06	6.16	13.58	10.10	16.57	17.71	4.14	15.03	17.71	129.82	
STORMWATER TREAMENT BASIN AREA	11.90	1.24	2.22	2.60	5.79	5.06	6.16	13.58	10.10	16.57	17.71	4.14	15.03	17.71	129.82	100.0%
GREEN SPACE:	5.76	0.63	1.01	1.38	2.04	1.79	0.80	4.00	4.37	6.71	6.76	1.93	5.97	7.84	51.00	39.3%
TOTAL PERVIOUS AREAS	5.76	0.63	1.01	1.38	2.04	1.79	0.80	4.00	4.37	6.71	6.76	1.93	5.97	7.84	51.00	
WET DETENTION:	3.29	0.00	0.00	0.00	2.62	2.16	5.37	6.82	2.07	3.81	4.66	0.00	2.93	2.98	36.72	28.3%
ASPHAULT AND ROOF:	2.85	0.60	1.21	1.21	1.13	1.11	0.00	2.75	3.67	6.05	6.29	2.21	6.13	6.90	42.10	32.4%
TOTAL IMPERVIOUS AREA	6.14	0.60	1.21	1.21	3.75	3.27	5.37	9.58	5.74	9.86	10.95	2.21	9.06	9.88	78.82	

	B-WET1 (acres)	B-WET2 (acres)	B-WET3 (acres)	B-WET5 (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	5.27	5.71	7.72	1.87	20.57	
STORMWATER TREAMENT BASIN AREA	5.27	5.71	7.72	1.87	20.57	100.0%
PERVIOUS:	0.20	0.93	1.38	0.55	3.06	14.9%
WETLAND:	5.08	4.79	6.33	1.32	17.51	85.1%
TOTAL PERVIOUS AREAS	5.27	5.71	7.72	1.87		
TOTAL IMPERVIOUS AREA	0.00	0.00	0.00	0.00	0.00	0.0%

NOTE 1: ALL STORMWATER TREAMENT AREAS ARE PART OF ON-SITE BASIN AREAS BUT NOT ALL ON-SITE BASIN AREAS ARE PART OF TREAMENT AREAS

CONTROL ELEVATION/SEASONAL HIGH WATER TABLE	=	5.5-16 ft (NAVD)
MINIMUM ROAD ELEVATION	=	9.80 ft (NAVD)
AVERAGE DEVELOPED GRADE ELEVATION	=	12.00 ft (NAVD)
MINIMUM FINISHED FLOOR IN FEMA ZONE 12015C0409G & 12015C0407G	=	10.00 ft (NAVD)
MINIMUM FINISHED FLOOR 100YR-24HR	=	8.03-17.58 ft (NAVD)

NOTE 2: FFE LISTED IS 18" ABOVE MIN EOP

100-24	10.0 in	-	ft (NAVD)		

1.9.2 - 100 YR-24HR LAKE STAGES

LAKE ID	STORM EVENT	MAXIMUM STAGE	
LAKE A	**100-24**	11.12	ft (NAVD)
LAKE B	**100-24**	13.24	ft (NAVD)
LAKE C	**100-24**	10.58	ft (NAVD)
LAKE D	**100-24**	11.29	ft (NAVD)
LAKE E	**100-24**	14.34	ft (NAVD)
LAKE F	**100-24**	7.72	ft (NAVD)
LAKE G	**100-24**	12.33	ft (NAVD)
LAKE H	**100-24**	8.15	ft (NAVD)
LAKE I	**100-24**	10.38	ft (NAVD)
LAKE J	**100-24**	14.91	ft (NAVD)
LAKE K	**100-24**	8.32	ft (NAVD)
LAKE L	**100-24**	11.33	ft (NAVD)
LAKE M	**100-24**	14.89	ft (NAVD)
LAKE N	**100-24**	11.34	ft (NAVD)
LAKE O	**100-24**	14.98	ft (NAVD)
LAKE P	**100-24**	17.58	ft (NAVD)

SITE DATA TABLE:

PROPERTY AREA:	306.51 ACRES
CURRENT ZONING:	(PD) PLANNED DEVELOPMENT
PROPOSED ZONING:	(PD) PLANNED DEVELOPMENT

DENSITY CALCULATION:

MAXIMUM ALLOWED LOTS = 999
PROPOSED LOTS = 496 (PHASE I)
496 UNITS ÷ 306.51 AC = 1.62 UNITS/AC

OPEN HABITAT SPACE:

REQUIRED: 30.2 AC PER PD APPROVAL
PROVIDED: WETLANDS\WETLAND BUFFERS = 30.2 AC ÷ 306.51 AC = 9.9%

NOTES:

1. 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.
2. ALL SIDEWALKS SHALL MEET ADA STANDARDS.
3. ALL SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.
4. CONTRACTOR SHALL FILE FOR A FDEP NOTICE OF INTENT (NOI) FOR CONSTRUCTION GENERAL PERMIT AND A NOTICE OF TERMINATION (NOT) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.
5. ACCORDING TO PARAGRAPH C, OF THE CODE OF LAWS & ORDINANCE CHARLOTTE COUNTY, FLORIDA (AKA MUNICODE), GRANTING AUTHORITY TO THE COUNTY ENGINEER UNDER PART III (LAND DEVELOPMENT & GROWTH MANAGEMENT), CHAPTER 3-6 (ROADS & BRIDGES), ARTICLE II (CONSTRUCTION; IMPROVEMENTS), DIVISION I (GENERALLY), SECTION 3-6-21 (COUNTY SPECIFICATIONS; PERMITS), THAT: GIVEN THE MAGNITUDE OF IMPROVEMENTS THAT WILL BE PERFORMED TO CONSTRUCT PROPOSED IMPROVEMENTS TO BURNT STORE ROAD TURN LANE TO PROVIDE ACCESS TO THE SITE, EITHER THE OWNER, DEVELOPER AND/ OR CONTRACTOR WILL POST A CHECK IN AN AMOUNT SUFFICIENT TO COVER THE COSTS OF INSPECTION SERVICES NECESSARY TO ENSURE WORK PERFORMED WITHIN THE RIGHT-OF-WAY IS PERFORMED IN ACCORDANCE WITH AND ACCEPTABLE TO COUNTY AND FDOT STANDARDS. THIS CHECK WOULD BE USED TO COVER COSTS INCURRED BY CONSTRUCTION MANAGEMENT. AT THE TIME OF PERMIT APPLICATION, THE APPLICANT SHALL PROVIDE A FULL SET OF CONSTRUCTION PLANS, PERTINENT DATA INDICATING THE LENGTH OF CONTRACT TIME NEEDED TO PERFORM THE WORK, AND THE NAME OF THE CONTRACTOR TO PERFORM THE WORK. AN ESTIMATED AMOUNT OF INSPECTION TIME WILL BE CALCULATED, AND AN AMOUNT WILL BE DETERMINED TO COVER THOSE SERVICES. SHOULD THE LENGTH OF TIME OR HOURS NEEDED TO COMPLETE THE INSPECTION SERVICES EXCEED THE ESTIMATE AND POSTED AMOUNT, THE PERMIT HOLDER BY ACCEPTANCE OF THE PERMIT CONDITIONS, WILL BE CHARGED AND AGREE TO REIMBURSE CHARLOTTE COUNTY, ANY ADDITIONAL COSTS INCURRED. NO WORK SHALL COMMENCE UNTIL THIS CHECK IS POSTED AND NO CO WILL BE GIVEN UNTIL ANY OUTSTANDING MONIES DUE THE COUNTY ARE SETTLED.

PARKING BREAKDOWN:

SINGLE FAMILY LOT
REQUIRED: 2.0 SPACES PER LOT
(805 UNITS) X (2.0)
REQUIRED = 1,610 SPACES

FUTURE COMMERCIAL AREA
PARKING IS PROPOSED TO MEET CHARLOTTE COUNTY LAND DEVELOPMENT CODE & WILL BE PROVIDED AT FINAL DRC.

RECREATIONAL AREA:
RECREATION BUILDING PARKING
REQUIRED: 1 SPACE PER 500 SF FLOOR AREA
(2,048 SF FLOOR AREA) ÷ (500 SF)
REQUIRED = 5 SPACES

REC AREA POOL
REQUIRED: 1 SPACE PER 250 SF POOL AREA
(4,280 SF POOL AREA) ÷ (250 SF)
REQUIRED = 18 SPACES

PICKLE BALL COURT
REQUIRED: 2 SPACES PER COURT
(6 COURTS) X (2 SPACES)
REQUIRED = 12 SPACES
RECREATIONAL AREA TOTAL REQUIRED: 35 SPACES
RECREATIONAL AREA TOTAL PROVIDED: 39 SPACES
2 HC SPACES INCL

TOTAL REQUIRED: 1,646 SPACES
TOTAL PROVIDED: 1,649 SPACES

FLOOD ZONE INFO:

THE SUBJECT PARCEL AS SHOWN HEREON IS LOCATED ON THE

SHEET 11C

SHEET 11A

SHEET 11D

SHEET 11B

PHASE 1 BOUNDARY COORDINATE TABLE			
POINT	NORTHING	EASTING	DESCRIPTION
1	912390.834	649981.735	BOUNDARY CORNER
2	913061.719	649944.082	BOUNDARY CORNER
3	913061.931	649308.809	BOUNDARY CORNER
4	913742.396	649268.975	BOUNDARY CORNER
5	913732.996	649685.246	BOUNDARY CORNER
6	914352.984	649648.773	BOUNDARY CORNER
7	914358.834	649232.712	BOUNDARY CORNER
8	915071.317	649190.798	BOUNDARY CORNER
9	915073.618	652171.471	BOUNDARY CORNER
10	912405.851	652246.675	BOUNDARY CORNER

N

0 150 300 450

GRAPHIC SCALE 1" = 150 FT

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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Serving The State Of Florida

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PORT CHARLOTTE, FLORIDA 33952
PHONE: (941) 625-1165 FAX: (941) 625-1149

ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

WWW.BANKSENG.COM

RYAN W. POWERS, P.E.
FL LIC #82437

MASTER UTILITY PLAN

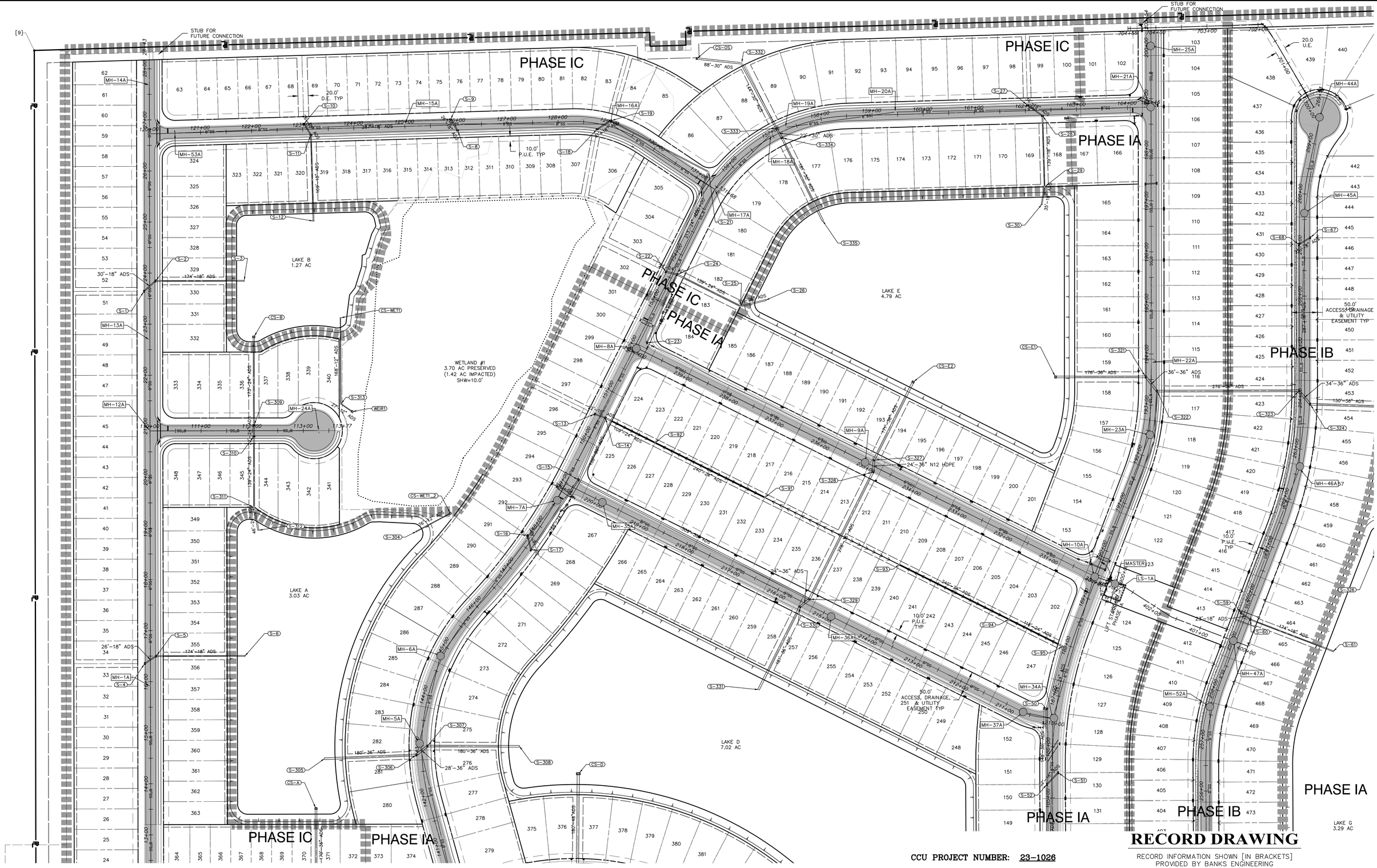
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT	RWP	DCT	TRR	1"=150'	11

CORAL LAKES - PHASE I

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RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

N

0 80' 160' 240'
GRAPHIC SCALE 1"= 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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RYAN W. POWERS, P.E.
FL LIC #82437

UTILITY PLAN - A
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-A	RWP	DCT	TRR	1"=80'	11A

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N

0 80' 160' 240'
GRAPHIC SCALE 1" = 80 FT

STUB FOR FUTURE CONNECTION

PHASE IA

PHASE IB

FUTURE PHASE II

FUTURE PHASE II

FUTURE PHASE II

[10]

20.0 U.E.

ACCESS, DRAINAGE, & UTILITY EASEMENT TYP

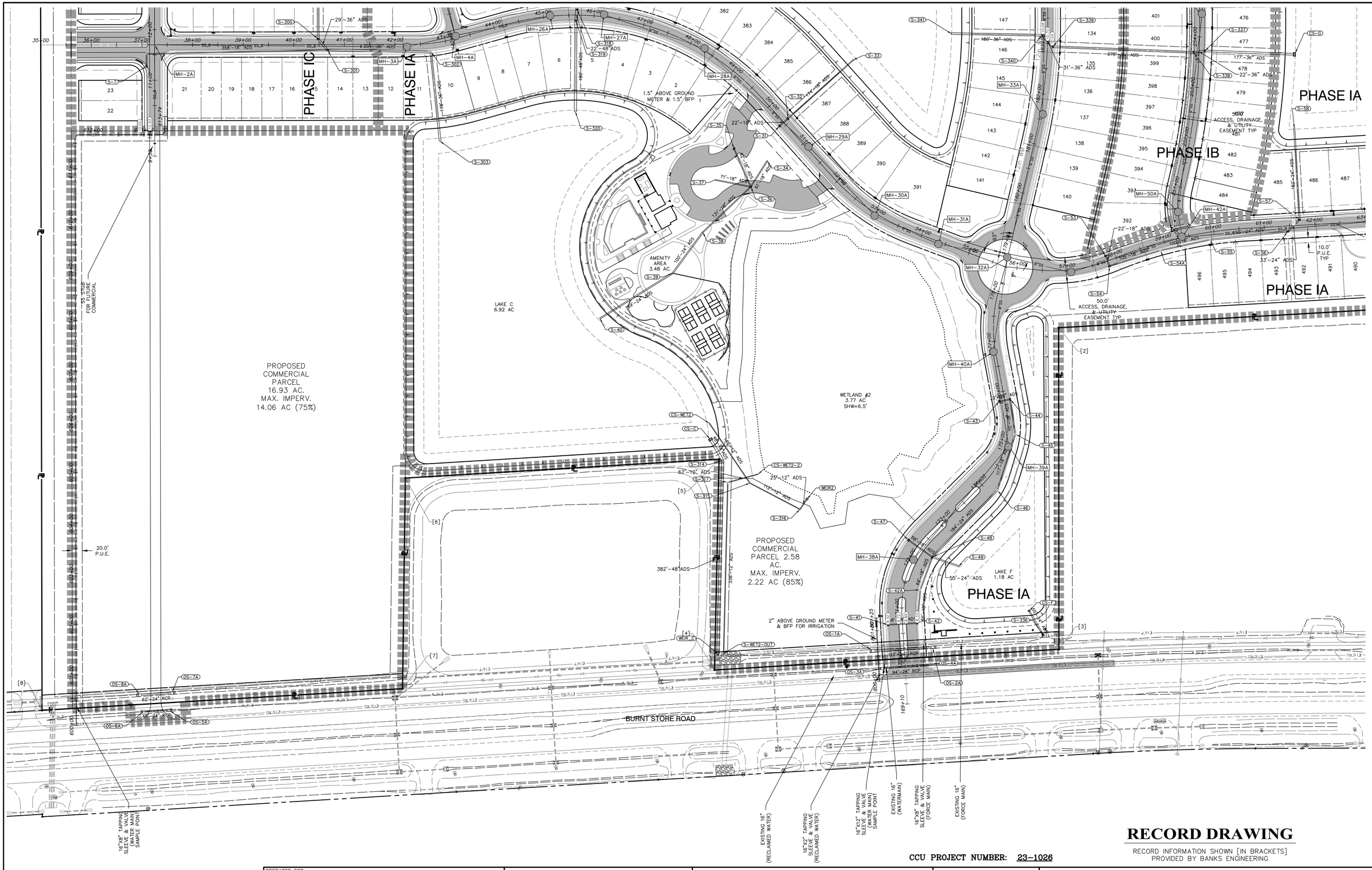
10.0' P.U.E. TYP

MH-25A
MH-44A
MH-45A
MH-22A
MH-46A
MH-47A
MH-52A

S-67
S-68
S-325
S-322
S-323
S-324
S-326
S-59
S-60
S-61
CS-1
S-342

36"-36" ADS
278'-36" ADS
34"-36" ADS
150'-36" ADS
290'-36" ADS
23"-18" ADS
374'-18" ADS

703+00
702+00
701+00
200+00
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239+00



RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

0 80' 160' 240'

GRAPHIC SCALE 1" = 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
3	5-7-24	REMOVED MH-55A PER CCU COMMENT	DCT
2	3-11-24	REVISED LOT 22 & 23 ORIENTATION	DCT
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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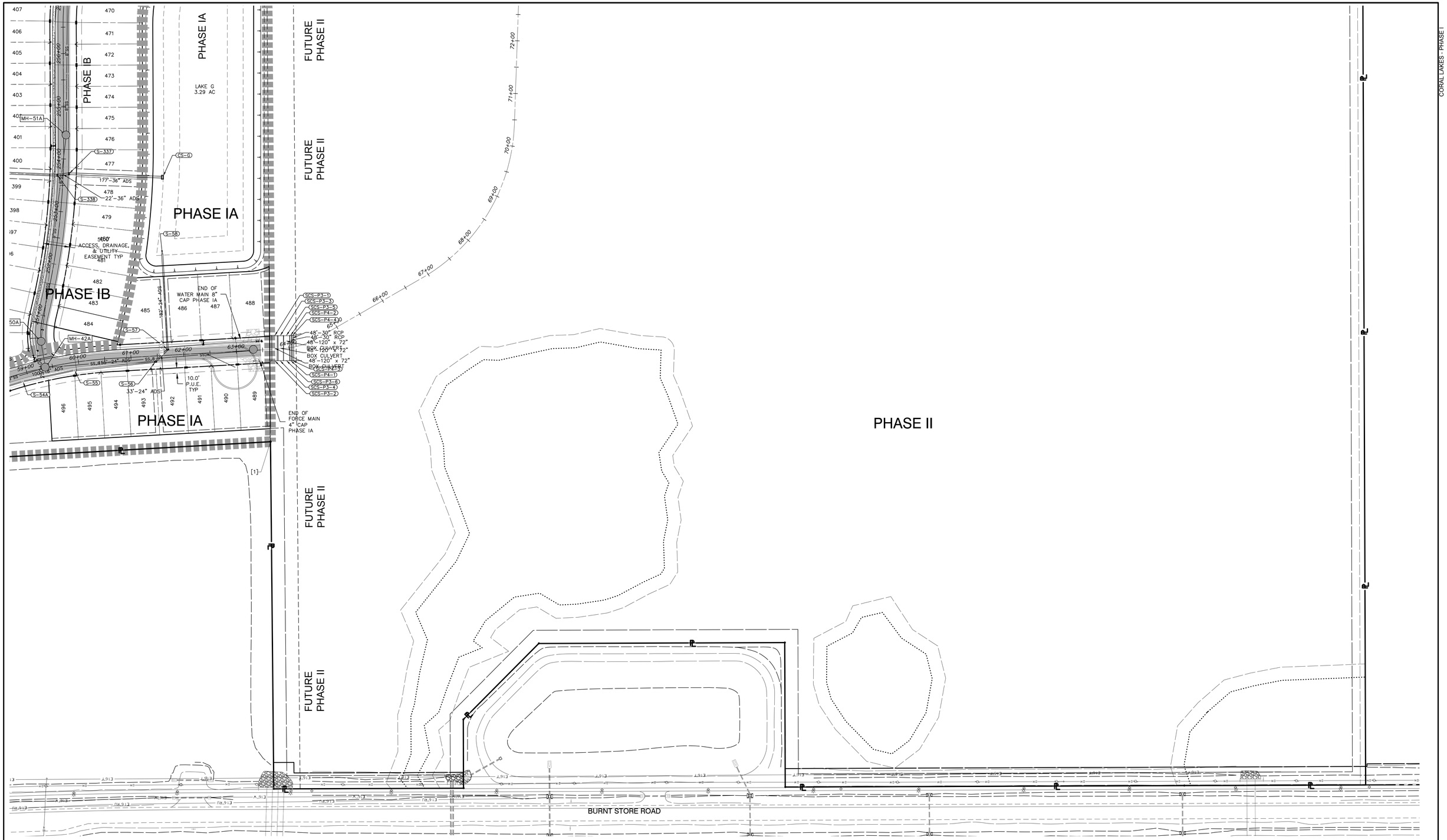
UTILITY PLAN - C

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-C	RWP	DCT	TRR	1" = 80'	11C

S:\USERS\WORK\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-11-MUTDWG 4/15/2025 8:02 AM TODD HANA



RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

N

0 80' 160' 240'
GRAPHIC SCALE 1" = 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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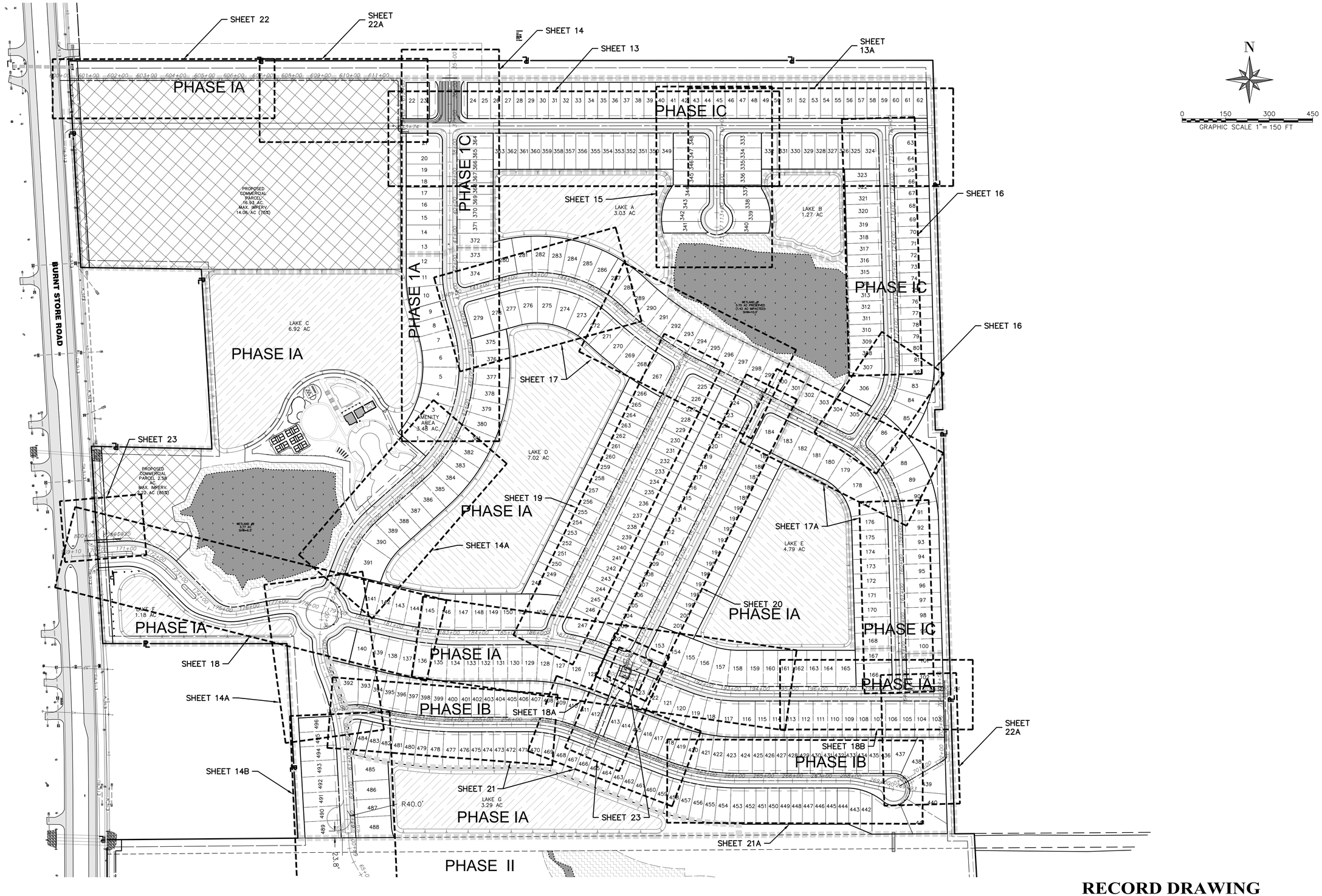
UTILITY PLAN - D

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-D	RWP	DCT	TRR	1" = 80'	11D

S:\USERS\CIVIL\STACI\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-11-MUTDWG 4/15/2025 8:03 AM TODD HANA



RECORD DRAWING

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PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
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SURVEY LICENSE # LB 6690

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FL LIC #82437

KEY SHEET

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT	RWP	DCT	TRR	1"=150'	12

S:\JOBS\4570\PLOTS\ENGINEERING\SECOND ENGINEERING\TILITIES\4570C-12-KEY SHEET.DWG 4/15/2025 8:14 AM TODD VANA

GRAPHIC SCALE 1" = 40 FT (0, 40', 80', 120')

N

SEE SHEET 14 FOR CONTINUATION

SEE SHEET 14 FOR CONTINUATION

SEE SHEET 15 FOR CONTINUATION

SEE SHEET 13A FOR CONTINUATION

BLOW OFF END OF PHASE IA WATER MAIN

SINGLE PW SERV TYP

8" CAP END OF PHASE IC

MH-2A

S-7

612+00

613+00

613+74

10+00

11+00

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

22+00

23

50.0' ACCESS, DRAINAGE, & UTILITY EASEMENT TYP.

12.03

12.03

10.0' P.U.E. TYP

SINGLE SS SERV TYP

26'-18" ADS

S-4

MH-1A

421'-8" SDR 26 PVC

8" GATE VALVE

MH-12A

8"X8"X8" MJ TEE

178'-8" SDR 26 PVC

MH-13A

7.2

8" WATER MAIN CONTINUES SEE 600+00 PROFILE (PHASE IA)

8" GATE VALVE

8" CAP END OF PHASE IA

FIRE HYDRANT ASSEMBLY

8"X8"X8"X8" CROSS

8" GATE VALVE

7.0' TYP

S-5

FIRE HYDRANT ASSEMBLY

8" GATE VALVE

8" GATE VALVE

SINGLE SS SERV TYP

10.0' P.U.E. TYP

DBL SS SERV TYP

DBL PW SERV TYP

358'-18" ADS

174'-18" ADS

7.0' TYP

330'-8" SDR 26 PVC

S-6

S-312

46'-24" ADS

S-311

139'-24" ADS

S-310

22'-24" ADS

S-309

173'-24" ADS

CS-B

21 20 19 18

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

363 362 361 360 359 358 357 356 355 354 353 352 351 350 349

365 366 367 364

348 347 346 345 333 334 335 336 332

±1303.5' WATER MAIN

PVIS: 9+65.14
PVIE: 7.67
STA: 9+75.00
ELEV: 10.13

PVIS: 10+80.00
PVIE: 13.13

WATER MAIN CONTINUES SEE 600+00 TO 614+00 PROFILE. SECOND WATER MAIN CONNECTION TO MAIN ON BURNT STORE ROAD TO BE COMPLETED IN PHASE IC

12.00%

24.95%

10.8'

3.0' MIN.

0.30%

1.0' MIN.

8" DR-18 PVC C900 WATER MAIN

EXISTING GRADE

18" ADS @ SS

PHASE IC 8" CAP

[*] 195' OF 8" S.D.R. 26 P.V.C. @ 0.40% [*]

SAN MH-2A
STA 11+70.00, -0.06'L
RIM 12.62' [*]
S INVERT 0.86' [*]
W INVERT 0.96' [*]

PVIS: 11+70.00
PVIE: 12.62

8" GATE VALVE

8"X8"X8" MJ TEE

8"X8"X8" MJ TEE

18" ADS

[*] 421' OF 8" S.D.R. 26 P.V.C. @ 0.82% [*]

SAN MH-1A
STA 15+42.96, 0.00'
RIM 15.36' [*]
E INVERT 4.52' [*]
W INVERT 4.42' [*]

PVIS: 16+42.72
PVIE: 11.20

FIRE HYDRANT ASSEMBLY

18" ADS @ WM

5.0' MIN.

0.5' MIN.

1.5'

8" DR-18 PVC C900 WATER MAIN

0.82%

EXISTING GRADE

[*] 500' OF 8" S.D.R. 26 P.V.C. @ 0.40% [*]

SAN MH-12A
STA 20+88.46, 0.00'
RIM 14.85' [*]
E INVERT 6.62' [*]
S INVERT 6.62' [*]
W INVERT 6.52' [*]

8" GATE VALVE

PVIS: 20+88.46
PVIE: 14.85

0.30%

[*] 178' OF 8" S.D.R. 26 P.V.C. @ 0.40% [*]

SAN MH-13A
STA 22+68.94, 0.00'
RIM 14.31' [*]
E INVERT 7.42' [*]
W INVERT 7.32' [*]

20

10

0

E.G.=7.8 F.G.=10.13 | E.G.=8.3 F.G.=13.13 | E.G.=8.7 F.G.=13.06 | E.G.=8.9 F.G.=12.98 | E.G.=8.8 F.G.=12.90 | E.G.=8.6 F.G.=12.83 | E.G.=8.5 F.G.=12.76 | E.G.=8.3 F.G.=12.68 | E.G.=8.3 F.G.=12.60 | E.G.=8.3 F.G.=12.53 | E.G.=8.3 F.G.=12.45 | E.G.=8.3 F.G.=12.38 | E.G.=8.7 F.G.=12.30 | E.G.=9.1 F.G.=12.23 | E.G.=9.5 F.G.=12.15 | E.G.=9.6 F.G.=12.08 | E.G.=9.4 F.G.=12.00 | E.G.=9.2 F.G.=11.93 | E.G.=9.0 F.G.=11.85 | E.G.=8.9 F.G.=11.78 | E.G.=8.8 F.G.=11.70 | E.G.=8.8 F.G.=11.63 | E.G.=8.8 F.G.=11.55 | E.G.=8.8 F.G.=11.48 | E.G.=9.2 F.G.=11.40 | E.G.=9.7 F.G.=11.33 | E.G.=10.1 F.G.=11.25 | E.G.=10.3 F.G.=11.26 | E.G.=10.1 F.G.=11.46 | E.G.=9.8 F.G.=11.67 | E.G.=9.6 F.G.=11.87 | E.G.=9.5 F.G.=12.08 | E.G.=9.4 F.G.=12.28 | E.G.=9.3 F.G.=12.49 | E.G.=9.2 F.G.=12.69 | E.G.=9.2 F.G.=12.90 | E.G.=9.8 F.G.=13.10 | E.G.=10.5 F.G.=13.31 | E.G.=11.2 F.G.=13.51 | E.G.=11.3 F.G.=13.72 | E.G.=11.1 F.G.=13.92 | E.G.=11.0 F.G.=14.13 | E.G.=10.8 F.G.=14.33 | E.G.=10.6 F.G.=14.54 | E.G.=10.8 F.G.=14.74 | E.G.=11.0 F.G.=14.82 | E.G.=11.2 F.G.=14.74 | E.G.=11.5 F.G.=14.66 | E.G.=11.8 F.G.=14.59 | E.G.=12.1 F.G.=14.51 | E.G.=12.4 F.G.=14.44 | E.G.=12.8 F.G.=14.36 | E.G.=13.1 F.G.=14.29

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

PHASE 1C RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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Serving The State Of Florida

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PORT CHARLOTTE, FLORIDA 33952
PHONE: (941) 625-1165 FAX: (941) 625-1149

ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

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RYAN W. POWERS, P.E.
FL LIC #82437

ROAD A - PLAN AND PROFILE

CORAL LAKES - PHASE I

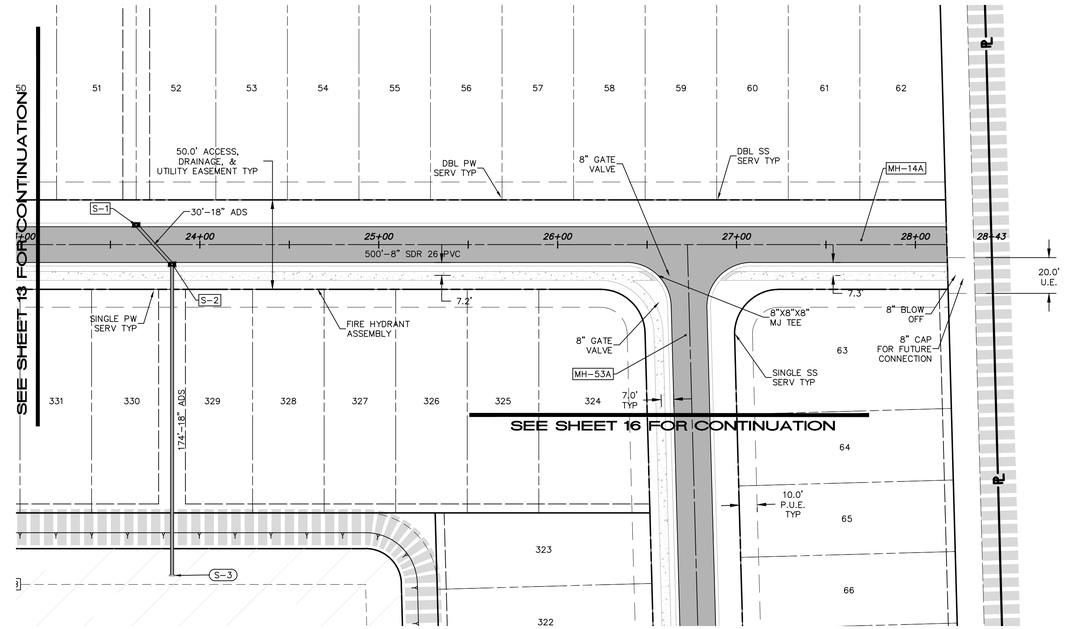
CHARLOTTE COUNTY, FLORIDA

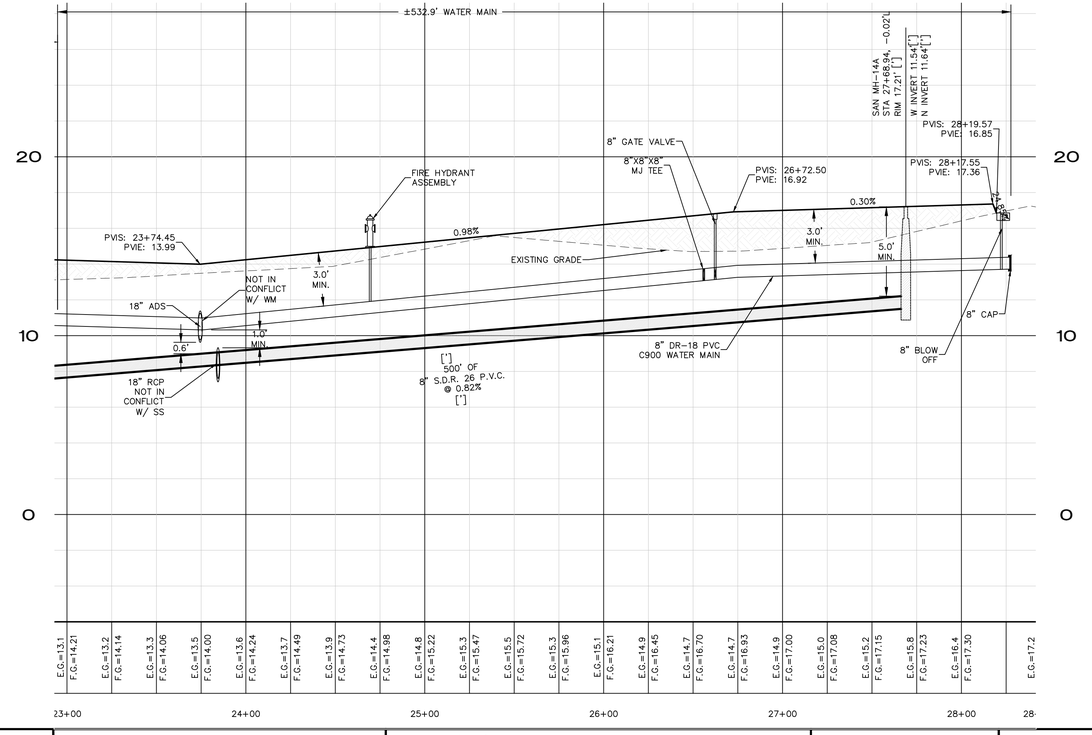
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	13

S:\JOBS\4500\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-13-ROAD A - PP.DWG 4/15/2025 8:04 AM TODD WAHA

0 40' 80' 120'
GRAPHIC SCALE 1" = 40 FT

N





CCU PROJECT NUMBER: 23-1026

PHASE 1C RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

CC BURNT STORE, LLC
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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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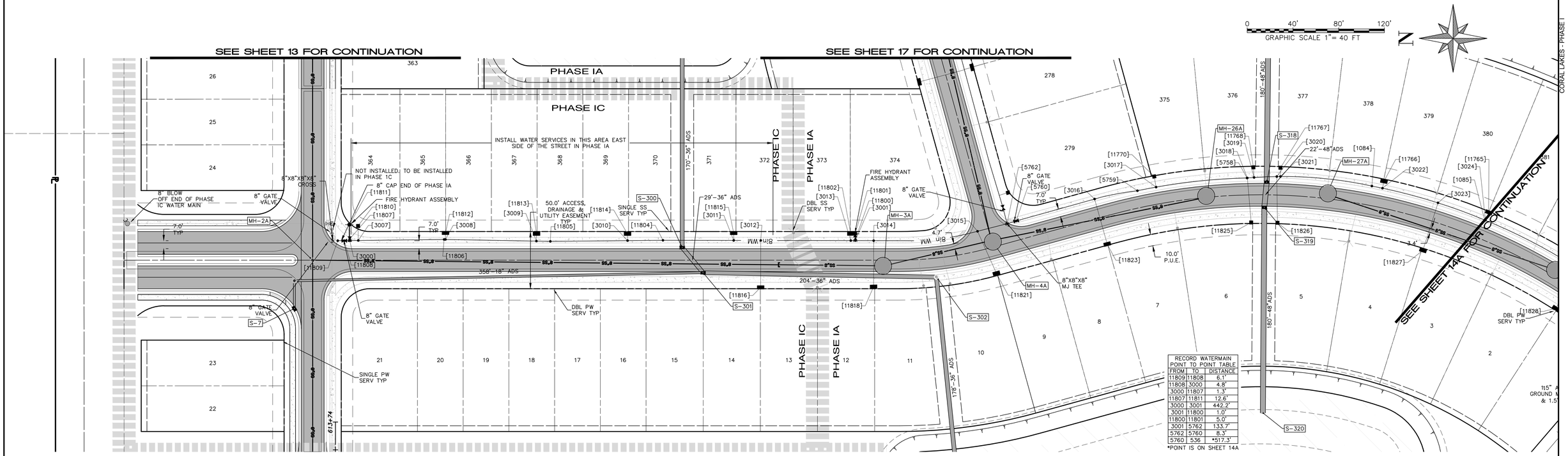
ROAD A - PLAN AND PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	13A

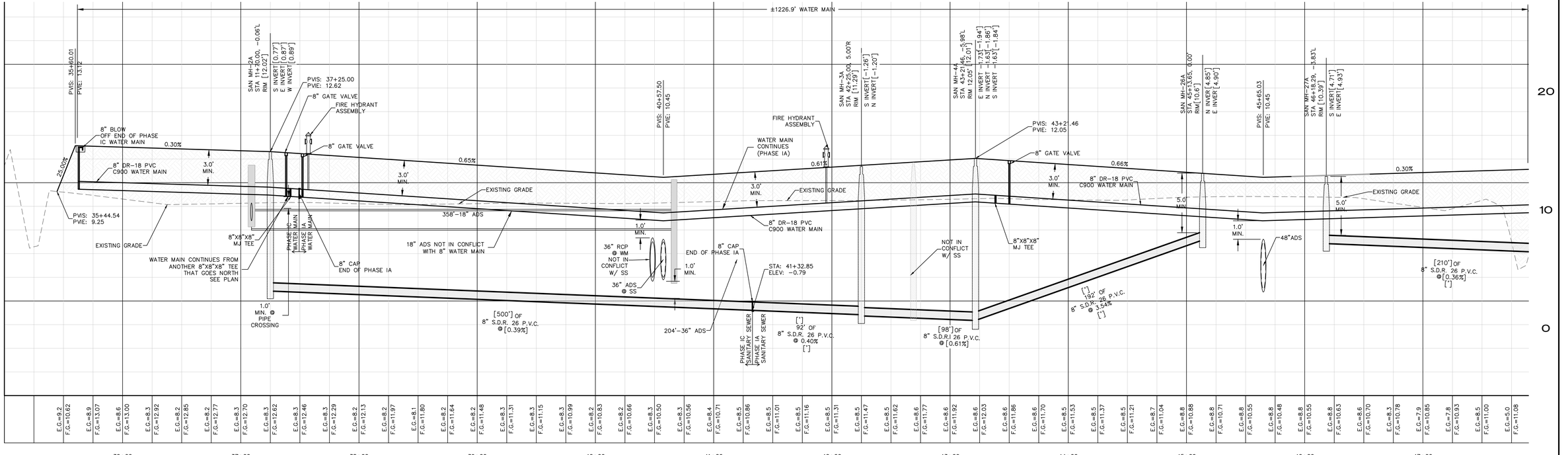
S:\JOBS\4XXX\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-13-ROAD A - PP.DWG 4/15/2025 8:04 AM TODD WANA



RECORD WATERMAIN POINT TO POINT TABLE

FROM	TO	DISTANCE
11809	11808	6.1'
11808	3000	4.8'
3000	11807	1.3'
11807	11811	12.6'
3000	3001	442.2'
3001	11800	1.0'
11800	11801	5.0'
3001	5762	133.7'
5762	5760	8.3'
5760	536	*517.3'

*POINT IS ON SHEET 14A



PHASES 1A & 1C RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
3	5-7-24	REMOVED MH-55A PER CCU COMMENT	DCT
2	3-11-24	REVISED LOT 22 & 23 ORIENTATION	DCT
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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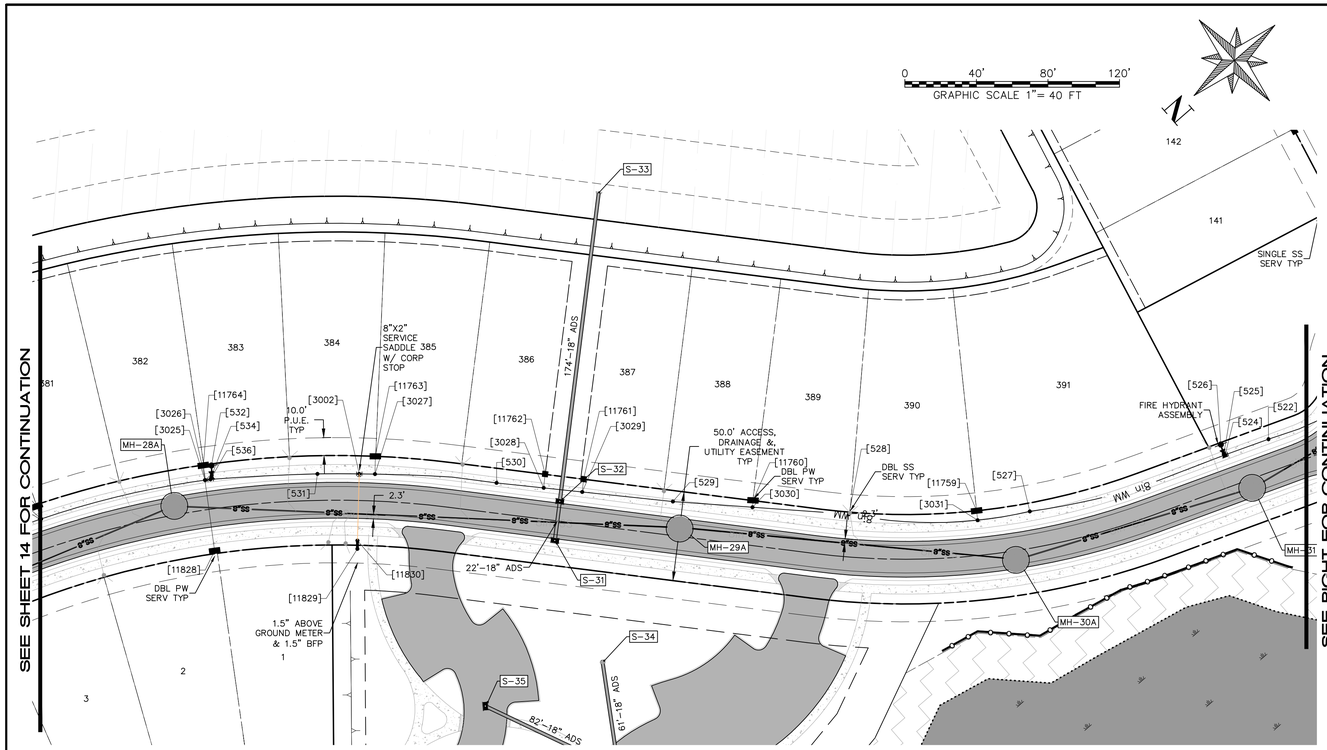
ROAD B - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

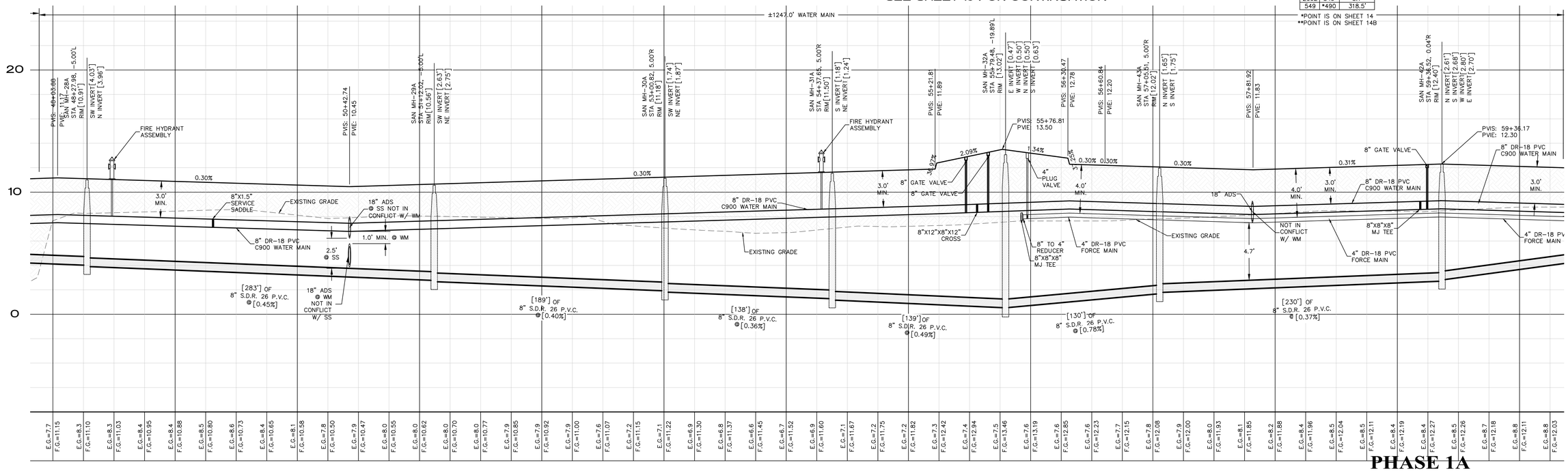
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	14

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RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
*5760	536	498.4'
536	534	2.3'
534	532	5.5'
536	3002	83.2'
3002	524	484.1'
524	525	1.0'
525	526	5.2'
524	516	118.9'
516	517	8.4'
517	514	7.6'
514	2062	342.2'
2062	549	3.1'
549	*490	318.5'

*POINT IS ON SHEET 14
**POINT IS ON SHEET 14B



PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

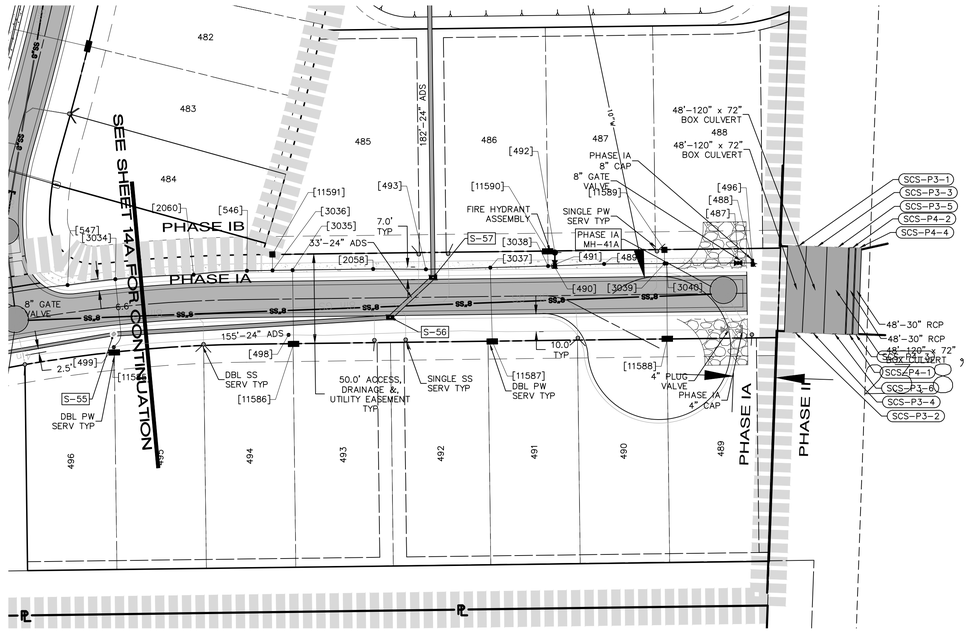
NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	REVISED PER SHOP DRAWING REVIEW & MOVED SERVICES TO ROW	DCT

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ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690
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RYAN W. POWERS, P.E.
FL LIC #82437

ROAD B - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	14A

S:\JOBS\4500\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-14-ROAD B -PP.DWG 4/15/2025 8:05 AM TODD WAHA



0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

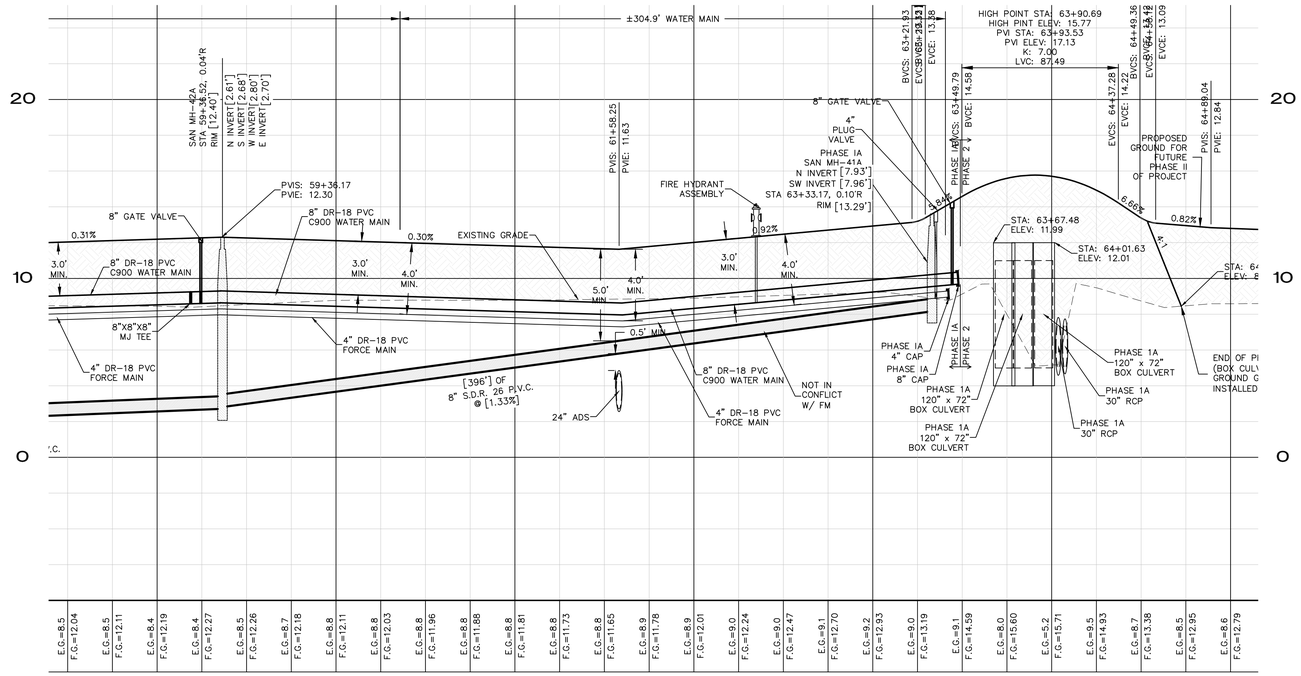
N

RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
549	490	318.5'
490	491	0.9'
491	492	6.6'
490	487	102.9'
487	488	8.0'

*POINT IS ON SHEET 14A

RECORD FORCEMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
511	2069	2.7'
2069	551	2.6'
551	1971	732.9'

*POINT IS ON SHEET 14A



CCU PROJECT NUMBER: 23-1026

PHASE 1A RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

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111 S. ARMENIA AVENUE, SUITE 201
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(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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FL LIC #82437

ROAD B - PLAN & PROFILE

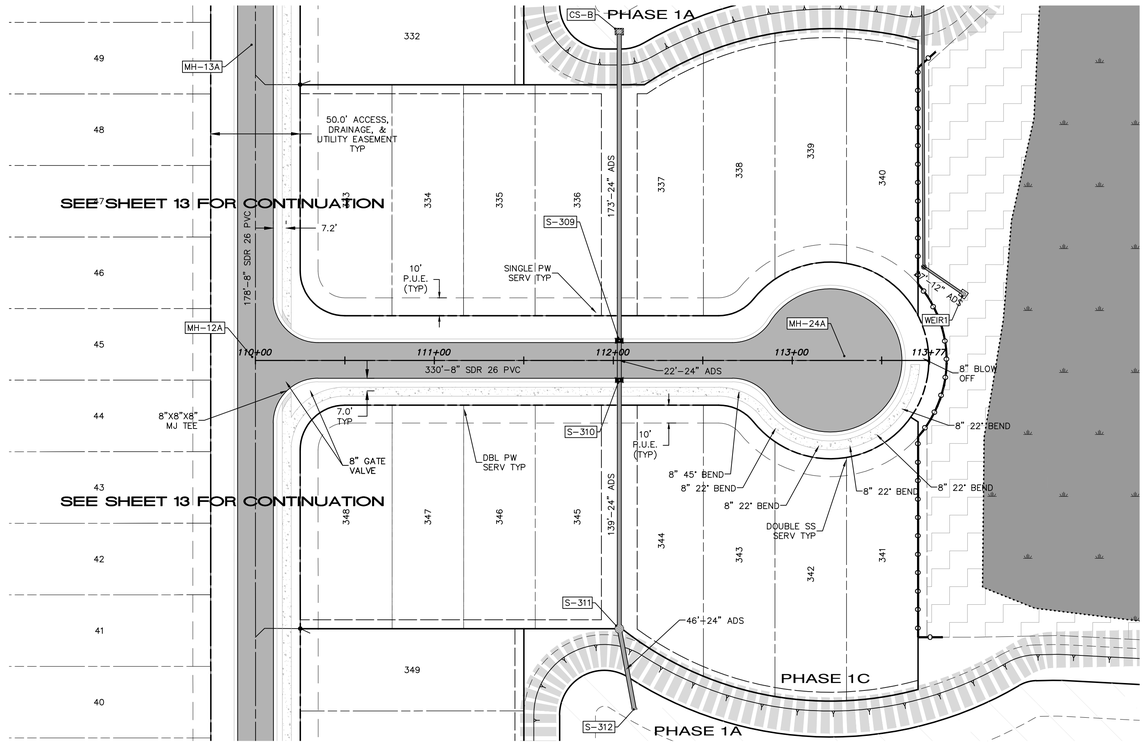
CORAL LAKES - PHASE I

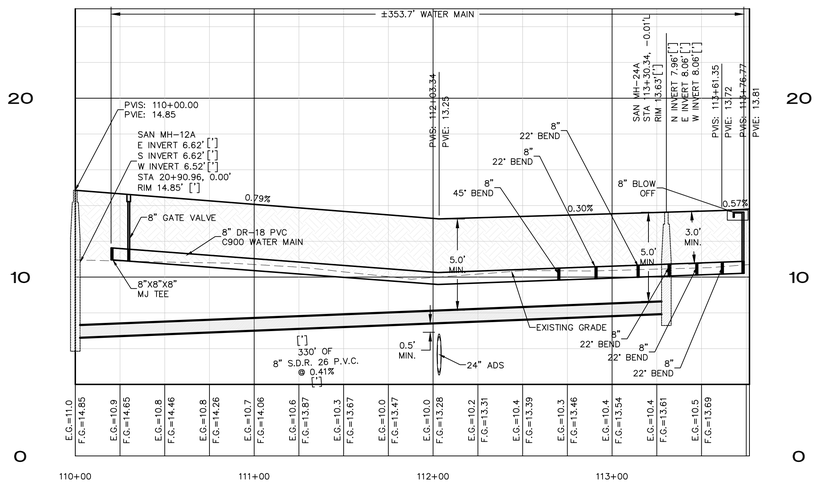
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	14B

CORAL LAKES - PHASE I

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CCU PROJECT NUMBER: 23-1026

PHASE 1C RECORD DRAWING

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(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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FL LIC #82437

ROAD C - PLAN & PROFILE

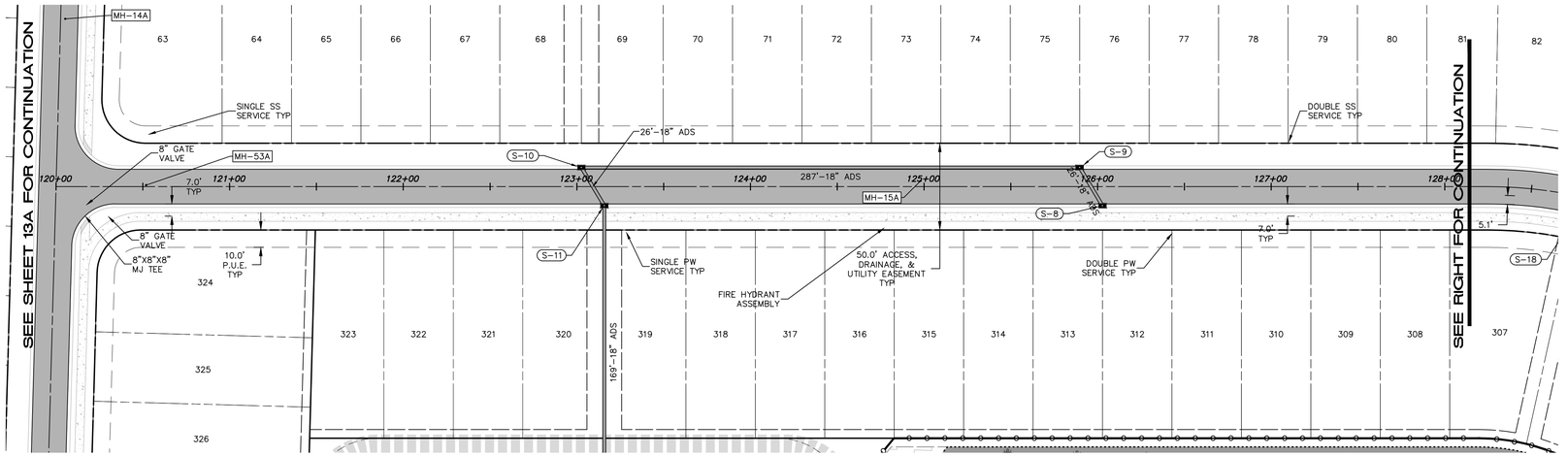
CORAL LAKES - PHASE I

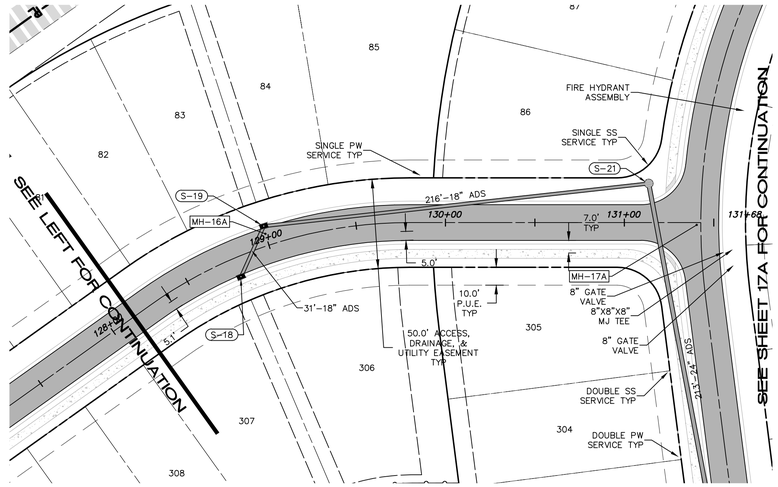
CHARLOTTE COUNTY, FLORIDA

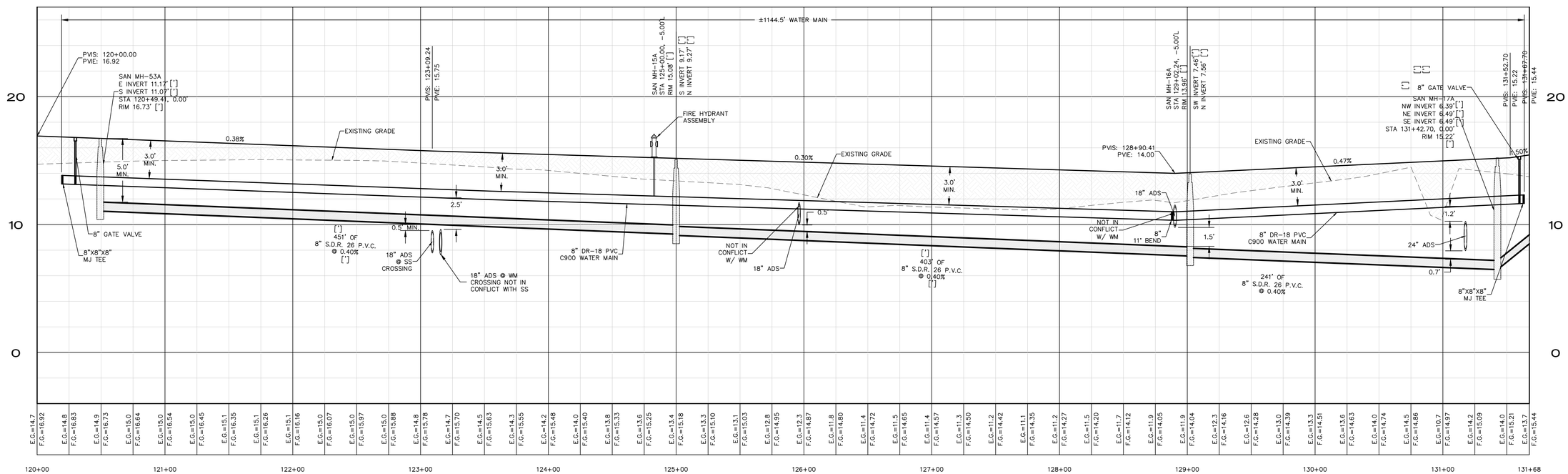
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	15

CORAL LAKES - PHASE I

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PHASE 1C
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

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FL LIC #82437

4570C-16-ROAD D -PP - PP - (1)

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	16

S:\JOBS\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-16-ROAD D -PP.DWG 4/15/2025 8:07 AM TODD VANA

SEE SHEET 14 FOR CONTINUATION

SEE SHEET 14 FOR CONTINUATION

SEE RIGHT FOR CONTINUATION

SEE LEFT FOR CONTINUATION

SEE SHEET 17A FOR CONTINUATION

SEE SHEET 19 FOR CONTINUATION

SEE SHEET 20 FOR CONTINUATION

GRAPHIC SCALE 1" = 40 FT (0, 40', 80', 120')

RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
5762	5761	14.4'
5761	5769	540.0'
5769	5770	1.2'
5770	3005	6.2'
5769	5774	247.7'
5774	5775	16.4'
5775	5779	10.7'
5779	5776	7.3'
5776	5782	284.1'
5782	5783	1.1'
5783	5784	6.0'
5782	5787	44.3'
5787	5786	4.0'
5786	5788	2.6'
5788	5789	52.2'

±1267.0' WATER MAIN

PVIS: 140+00.00
PVIE: 12.05
SAN MH-4A
E INVERT =[-1.94']
N INVERT =[-1.86']
S INVERT =[-1.84']
STA 43+21.46, -5.98'L
RIM [12.01']
8" GATE VALVE
EXISTING GRADE
0.30%
3.0' MIN.
8"X8"X8" MJ TEE
[300']OF 8" S.D.R. 26 P.V.C. @[0.43']

SAN MH-5A
STA 143+09.97, -5.00'L
RIM [10.99']
E INVERT [-3.36']
W INVERT [-3.24']
PVIS: 142+90.77
PVIE: 11.19
EXISTING GRADE
0.31%
3.0' MIN.
2.3'
36" ADS @ SS CROSSING
36" ADS @ WM CROSSING
3.9'
8" DR-18 PVC C900 WATER MAIN

SAN MH-6A
STA 144+81.41, -5.00'L
RIM 11.67'
SE INVERT -3.83'
W INVERT -3.73'
PVIS: 144+59.02
PVIE: 11.70
FIRE HYDRANT ASSEMBLY
0.30%
3.0' MIN.
[176']OF 8" S.D.R. 26 P.V.C. @[0.40']

PVIS: 146+22.80
PVIE: 12.19
0.35%
8" DR-18 PVC C900 WATER MAIN

PVIS: 147+61.77
PVIE: 11.70
EXISTING GRADE
0.47%
3.0' MIN.
18" ADS NOT IN CONFLICT W/ WM
11.6'
[381']OF 8" S.D.R. 26 P.V.C. @[0.41']

SAN MH-7A
STA 148+60.14, 0.00'
RIM [12.01']
SE INVERT [-5.78']
NW INVERT [-5.69']
8" GATE VALVE
PVIS: 148+97.84
PVIE: 12.34
0.46%
8"X8"X8" MJ TEE

PVIS: 150+46.99
PVIE: 13.02
18" ADS @ SS CROSSING
EXISTING GRADE
0.46%
3.0' MIN.
1.0' MIN.
8" DR-18 PVC C900 WATER MAIN
509'-30" ADS
24" ADS @ WM CROSSING
NOT IN CONFLICT W/ WM
14.3'

SAN MH-8A
STA 151+97.77, 5.00'R
RIM [13.65']
SW INVERT [-7.17']
SE INVERT [-7.12']
NW INVERT [-7.15']
PVIS: 151+97.77
PVIE: 13.71
FIRE HYDRANT ASSEMBLY
8" GATE VALVE
8" GATE VA
0.30%
3.0' MIN.
8" 11° BEND
8"X8"X8" MJ TEE
8" 11° BEND
8" DR-18 PVC C900 WATER MAIN
[*] 130' OF 8" S.D.R. 26 P.V.C. @ 3.81% [*]

[335']OF 8" S.D.R. 26 P.V.C. @[0.41%]

E.G.=8.8 F.G.=11.97 | E.G.=8.9 F.G.=11.90 | E.G.=9.0 F.G.=11.83 | E.G.=9.2 F.G.=11.75 | E.G.=9.6 F.G.=11.68 | E.G.=9.9 F.G.=11.60 | E.G.=10.2 F.G.=11.53 | E.G.=10.3 F.G.=11.46 | E.G.=10.0 F.G.=11.38 | E.G.=9.8 F.G.=11.31 | E.G.=9.5 F.G.=11.23 | E.G.=9.5 F.G.=11.21 | E.G.=9.6 F.G.=11.29 | E.G.=9.7 F.G.=11.37 | E.G.=9.8 F.G.=11.44 | E.G.=9.9 F.G.=11.52 | E.G.=10.2 F.G.=11.60 | E.G.=10.5 F.G.=11.67 | E.G.=10.7 F.G.=11.75 | E.G.=10.9 F.G.=11.82 | E.G.=10.5 F.G.=11.90 | E.G.=10.1 F.G.=11.97 | E.G.=9.6 F.G.=12.05 | E.G.=9.5 F.G.=12.12 | E.G.=9.7 F.G.=12.18 | E.G.=10.0 F.G.=12.10 | E.G.=10.2 F.G.=12.01 | E.G.=10.5 F.G.=11.92 | E.G.=10.8 F.G.=11.83 | E.G.=10.9 F.G.=11.74 | E.G.=10.9 F.G.=11.76 | E.G.=10.9 F.G.=11.88 | E.G.=11.0 F.G.=12.00 | E.G.=11.1 F.G.=12.11 | E.G.=11.3 F.G.=12.23 | E.G.=11.3 F.G.=12.35 | E.G.=11.4 F.G.=12.46 | E.G.=11.4 F.G.=12.58 | E.G.=11.4 F.G.=12.69 | E.G.=11.5 F.G.=12.81 | E.G.=11.7 F.G.=12.92 | E.G.=11.9 F.G.=13.03 | E.G.=12.1 F.G.=13.15 | E.G.=12.2 F.G.=13.26 | E.G.=12.4 F.G.=13.38 | E.G.=12.6 F.G.=13.49 | E.G.=12.7 F.G.=13.61 | E.G.=12.9 F.G.=13.72 | E.G.=13.0 F.G.=13.79 | E.G.=13.1 F.G.=13.87 | E.G.=13.2 F.G.=13.94

141+00 | 142+00 | 143+00 | 144+00 | 145+00 | 146+00 | 147+00 | 148+00 | 149+00 | 150+00 | 151+00 | 152+00

PHASE 1A
RECORD DRAWING

CCU PROJECT NUMBER: 23-1026

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

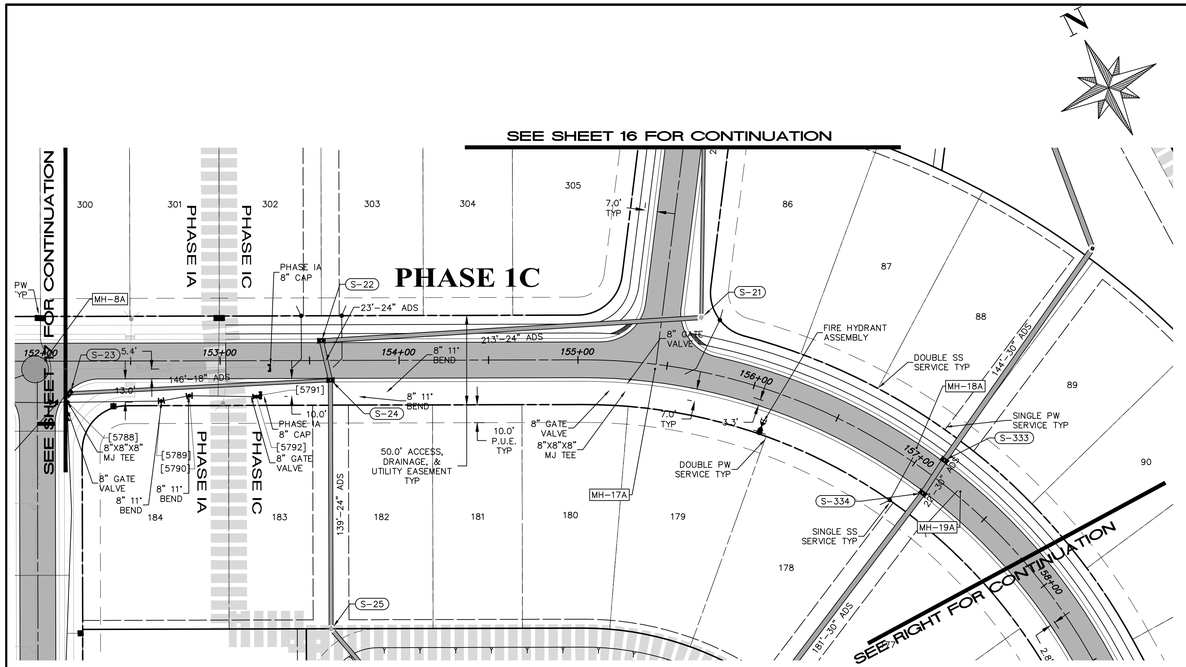
NO.	DATE	REVISION DESCRIPTION	BY

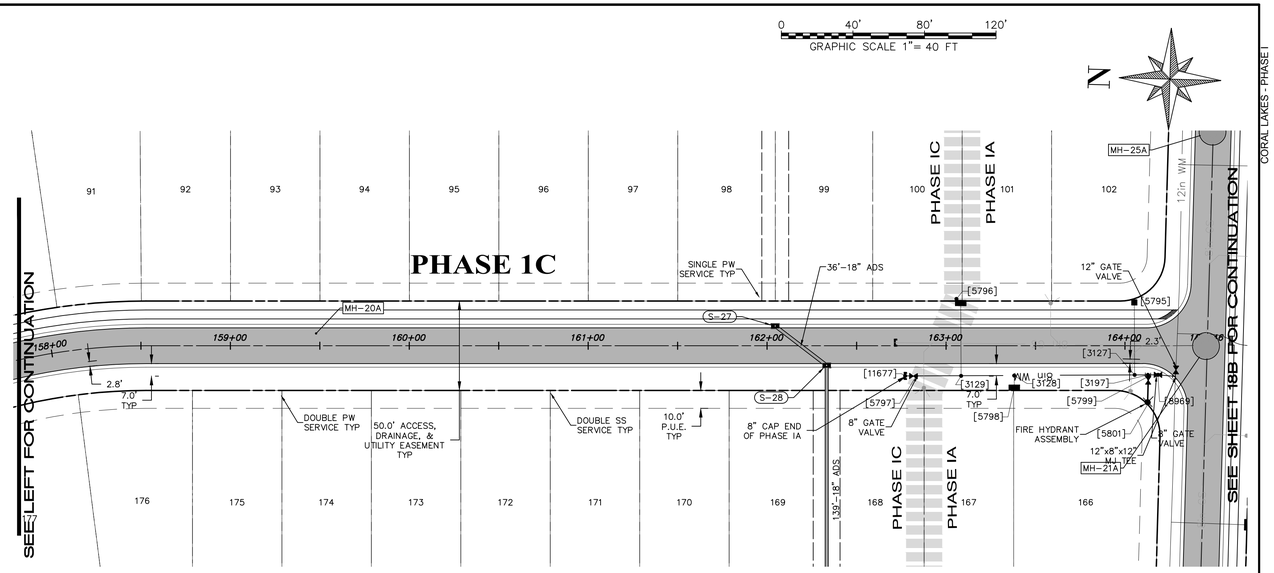
BANKS ENGINEERING
Professional Engineers, Planners, & Land Surveyors
Serving The State Of Florida
4161 TAMIAMI TRAIL – BLDG 5 UNIT 501
PORT CHARLOTTE, FLORIDA 33952
PHONE: (941) 625-1165 FAX: (941) 625-1149
ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690
WWW.BANKSENG.COM
RYAN W. POWERS, P.E.
FL LIC #82437

ROAD E - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

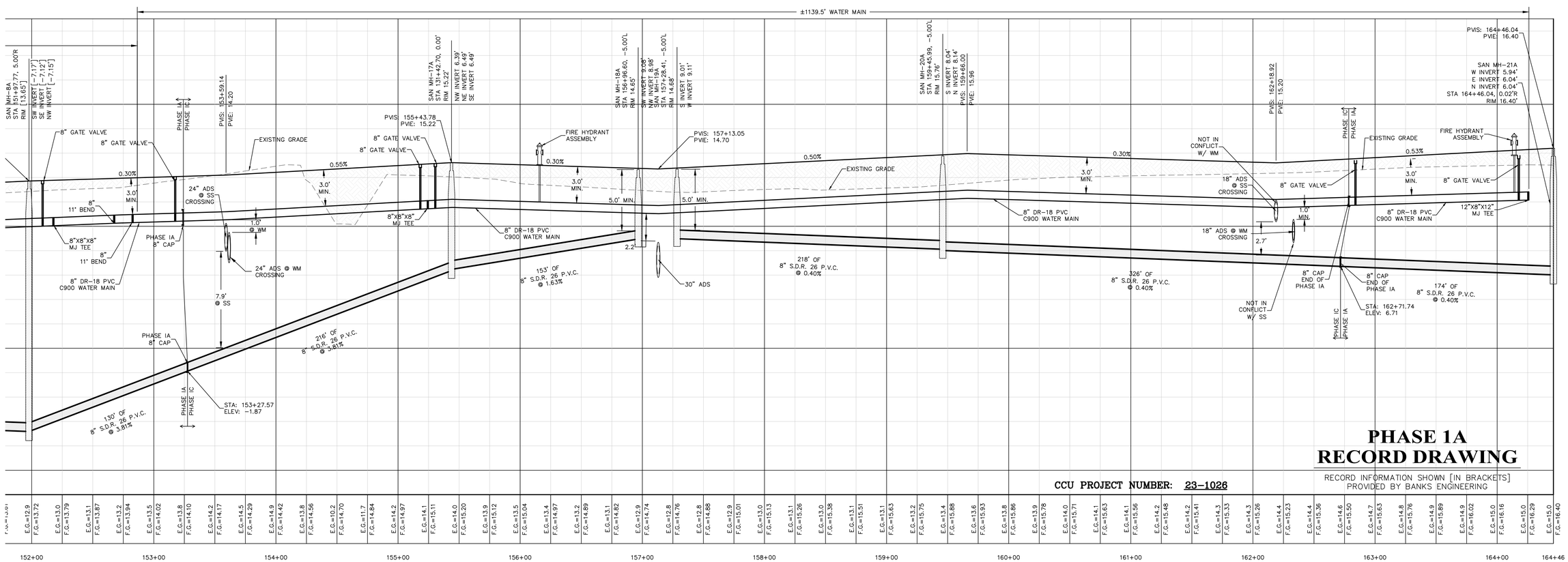
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	17

S:\USERS\KEVIT.KEVITCH\ENGINEERING\RECORD DRAWINGS\UTILITIES\KEVITCH-17-ROAD E - PP.DWG 4/15/2025 8:08 AM TODD VAVA





RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
5788	5789	52.2'
5789	5790	16.1'
5790	5792	37.5'
5792	5793	2.4'



PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS, P.E.
FL LIC #82437

ROAD E - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	17A

S:\JOBS\4500\4570C\DGN\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-17-ROAD E - PP.DWG 4/10/2025 8:08 AM TODD HAAS

RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
3200	474	1.3'
474	475	36.1'
475	476	5.0'
476	297	59.5'
297	477	2.1'
477	478	4.6'
297	296	26.1'
296	294	99.3'
294	480	1.5'
480	11581	3.3'
294	293	10.2'
293	290	263.0'
290	289	39.5'
289	288	19.7'
288	287	12.6'
287	285	126.9'
285	284	83.0'
284	515	115.4'
515	517	7.8'
517	1025*	592.1'

*POINT IS ON SHEET 18A

0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

N

SEE SHEET 14A FOR CONTINUATION

SEE SHEET 18A FOR CONTINUATION

OS-1A, OS-2A, OS-3A, OS-4A
EXISTING 16" RECLAIMED WATER
16"X2" TAPPING SLEEVE & VALVE RECLAIMED WATER [3200]
16"X12" TAPPING SLEEVE & VALVE WATER MAIN (SAMPLE POINT) [474]
EXISTING 16" WATERMAIN
16"X8" TAPPING SLEEVE & VALVE FORCE MAIN
EXISTING 16" FORCE MAIN
2" ABOVE GROUND METER & BFP SEE IRRIGATION 800+00 PROFILE SHEET #23
8" GATE VALVE & CAP FOR FUTURE 8" B.F.P.
FIRE HYDRANT ASSEMBLY
12"X8"X12" MJ TEE
[478] [475] [476] [297] [477] [296] [480] [11581] [295] [294] [293]
SINGLE SS SERV TYP
S-41 S-42 S-42A S-47 S-48 S-49 S-46 S-45 S-44 S-43
12" GATE VALVE
MH-38A
MH-39A
MH-40A
MH-31A
MH-32A
MH-33A
66'-18" ADS
69'-18" ADS
38'-18" ADS
184'-24" ADS
117'-18" ADS
70'-18" ADS
22'-18" ADS
10' P.U.E. (TYP)
10.5'
9.8'
12" 22" BEND
12" 11" BEND
[292] [291] [290] [289] [288] [287] [286] [285] [284] [283]
50.0' ACCESS, DRAINAGE, & UTILITY EASEMENT TYP
11.6'
2.5'
3.8'
10.0'
8"X8"X8" MJ TEE
4" TO 8" REDUCER
PLUG VALVE
6" PLUG VALVE
6" TO 8" REDUCER
12"X8"X12"X8" CROSS
8" GATE VALVE
[517] [515] [514] [282]
93°
90°
[3091] [518] [519] [1013] [3092] [3093] [3094] [3095] [11757] [11758] [3096] [11756]
12in WM
10.0'
7.0'
[11642] [11643] [11644]
SINGLE PW SERV TYP
DBL PW SERV TYP
DBL SS SERV TYP
141 142 143 144 145
140 139 138 137 136
PHASE 1A
PHASE 1A

±1209.4' WATER MAIN

PVIS: 169+60.32 PVIE: 8.49
PVIS: 170+00.00 PVIE: 9.28
PVIS: 170+68.37 PVIE: 9.08
PVIS: 171+36.74 PVIE: 9.28
SAN MH-38A STA 171+99.76, 0.00' RIM [3.43']
SE INVERT [3.43'] NE INVERT [3.66']
PVIS: 172+24.98 PVIE: 9.02
PVIS: 174+03.22 PVIE: 9.92
SAN MH-39A STA 174+92.35, 6.75'R RIM [10.1'] E INVERT [2.20'] NW INVERT [2.32']
PVIS: 175+81.99 PVIE: 10.82
SAN MH-40A STA 176+79.58, -5.00'L RIM [11.03'] E INVERT [1.20'] W INVERT [1.36']
PVIS: 177+95.49 PVIE: 11.89
SAN MH-32A STA 179+29.48, -19.89'L RIM [13.02'] E INVERT [0.47'] W INVERT [0.50'] N INVERT [0.50'] S INVERT [0.63']
PVIS: 179+04.16 PVIE: 12.39
SAN MH-33A STA 181+57.29, 5.00'R RIM 11.04' E INVERT -0.80' W INVERT -0.76'

20
10
0
-10

2.00% 0.30% 0.50% 2.07% 3.50%
24" RCP
18" ADS
66'-18" ADS
12" GATE VALVE
8" PLUG VALVE
12" DR-18 PVC C900 WATER MAIN
8" SDR-18 PVC FORCE MAIN
16"X8" TAPPING SLEEVE & 8" VALVE
EXISTING 16" FORCE MAIN
16" TAPPING SLEEVE & VALVE
EXISTING 16" WATER MAIN
FOR CONTINUATION OF REUSE MAIN SEE PROFILE 800+00 SHEET 23
REUSE 16"X2" TAPPING SLEEVE & 2" VALVE
EXISTING 16" REUSE MAIN
NOT IN CONFLICT W/ WM
NOT IN CONFLICT W/ FM
NOT IN CONFLICT W/ WM
18" ADS @ SS CROSSING
24" ADS @ FM CROSSING
NOT IN CONFLICT W/ WM
3.0' MIN.
4.0' MIN.
5.0' MIN.
1.0' MIN.
0.5' MIN.
[292'] OF 8" S.D.R. 26 P.V.C. @[0.42%]
[190'] OF 8" S.D.R. 26 P.V.C. @[0.44%]
[188'] OF 8" S.D.R. 26 P.V.C. @[0.37%]
[291'] OF 8" S.D.R. 26 P.V.C. @[0.38%]
12" 22" BEND
12" 11" BEND
18" ADS @ SS CROSSING
8" SDR-18 PVC FORCE MAIN
EXISTING GRADE
8"X8"X8" MJ TEE
8" TO 6" REDUCER
12"X8"X12"X8" MJ CROSS
6" DR-18 PVC FORCE MAIN
6" ARV
12" GATE VALVE
6" PLUG VALVE
12" DR-18 PVC C900 WATER MAIN
EXISTING GRADE
6" DR-
FOR

E.G.=7.1 F.G.=8.78 | E.G.=7.7 F.G.=9.28 | E.G.=4.7 F.G.=9.21 | E.G.=5.9 F.G.=9.13 | E.G.=6.0 F.G.=9.10 | E.G.=6.0 F.G.=9.17 | E.G.=6.1 F.G.=9.25 | E.G.=6.2 F.G.=9.25 | E.G.=6.2 F.G.=9.17 | E.G.=6.2 F.G.=9.10 | E.G.=6.3 F.G.=9.02 | E.G.=6.4 F.G.=9.15 | E.G.=6.5 F.G.=9.27 | E.G.=6.6 F.G.=9.40 | E.G.=6.7 F.G.=9.52 | E.G.=6.8 F.G.=9.65 | E.G.=6.8 F.G.=9.77 | E.G.=6.8 F.G.=9.90 | E.G.=6.8 F.G.=10.03 | E.G.=6.9 F.G.=10.15 | E.G.=7.1 F.G.=10.28 | E.G.=7.2 F.G.=10.40 | E.G.=7.2 F.G.=10.53 | E.G.=7.3 F.G.=10.66 | E.G.=7.2 F.G.=10.78 | E.G.=7.1 F.G.=10.91 | E.G.=7.1 F.G.=11.03 | E.G.=7.1 F.G.=11.16 | E.G.=7.2 F.G.=11.28 | E.G.=7.2 F.G.=11.41 | E.G.=7.2 F.G.=11.54 | E.G.=7.3 F.G.=11.66 | E.G.=7.3 F.G.=11.79 | E.G.=7.4 F.G.=12.46 | E.G.=7.4 F.G.=12.97 | E.G.=7.5 F.G.=13.49 | E.G.=7.6 F.G.=12.99 | E.G.=7.7 F.G.=12.48 | E.G.=7.9 F.G.=11.83 | E.G.=8.1 F.G.=11.76 | E.G.=8.3 F.G.=11.68 | E.G.=8.6 F.G.=11.61 | E.G.=8.6 F.G.=11.53 | E.G.=8.8 F.G.=11.46 | E.G.=8.9 F.G.=11.39 | E.G.=8.9 F.G.=11.31 | E.G.=9.0 F.G.=11.24 | E.G.=9.2 F.G.=11.16 | E.G.=9.3 F.G.=11.09 | E.G.=9.3 F.G.=11.01

170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00

PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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
RYAN W. POWERS, P.E.
FL LIC #82437

ROAD F - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	18

CORAL LAKES - PHASE I

S:\JOBS\4500\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-18-ROAD F - PP.DWG 4/15/2025 8:25 AM TODD VANA

RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
*517	1025	589.1'
1025	1026	1.3'
1026	1027	3.3'
1025	1032	165.5'
1032	1033	9.1'
1033	1035	28.4'
1035	1046	298.4'
1046	1047	5.0'
1047	8947	46.5'
8947	8948	17.1'
8948	8951	180.4'
8951	8952	1.6'
8952	8953	3.4'
8953	**8960	641.2'

*POINT IS ON SHEET 18
**POINT IS ON SHEET 18B

0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

N

SEE SHEET 19 FOR CONTINUATION

SEE SHEET 20 FOR CONTINUATION

SEE SHEET 18 FOR CONTINUATION

SEE SHEET 18B FOR CONTINUATION

PHASE 1A

PHASE 1B

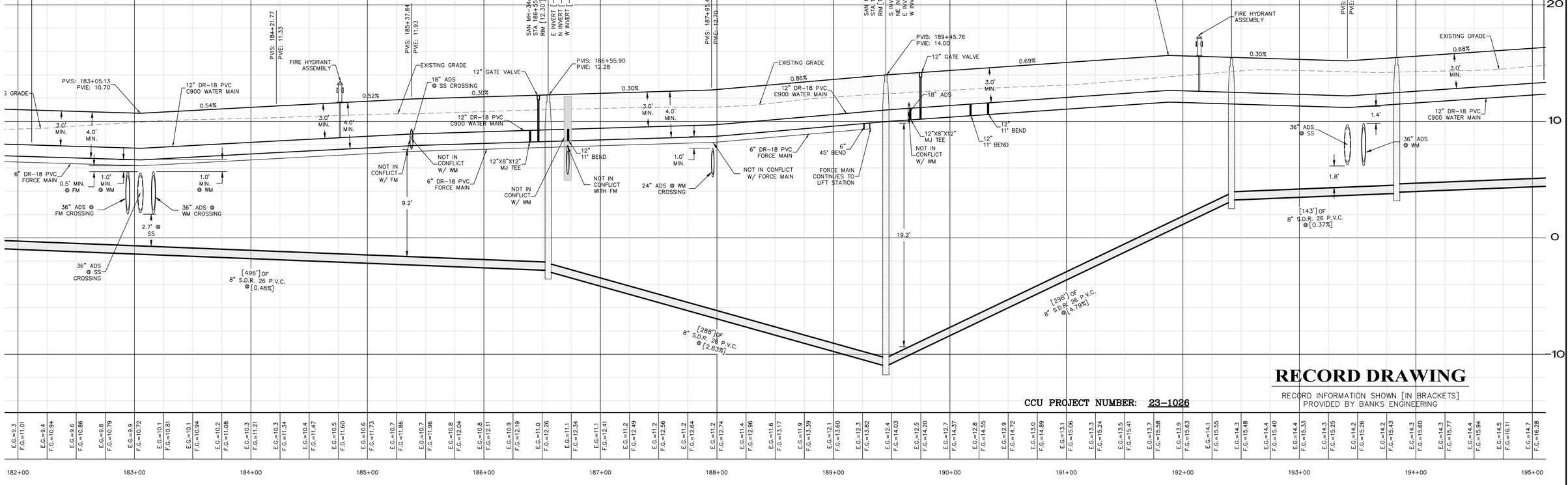
PHASE 1C

MH-37A
MH-34A
MH-10A
MH-22A
MH-23A
S-50
S-52
S-51
S-340
S-339
S-95
S-1A
S-63
S-62
S-64
S-321
S-322
LS-1A
MASTER

12" GATE VALVE
8" GATE VALVE
12"X8"X12" MJ TEE
12"X1" SERVICE SADDLE W/ CORP STOP & CASING
8" 11° BEND
12" 11° BEND
8" GATE VALVE
12"X8"X12" MJ TEE
12" GATE VALVE
SINGLE PW SERV TYP
FIRE HYDRANT ASSEMBLY
50.0' ACCESS, DRAINAGE, & UTILITY EASEMENT TYP
DBL SS SERV TYP
SINGLE PW SERV TYP
DBL PW SERV TYP
10' P.U.E. (TYP)
6" 45° BEND
SINGLE SS SERV TYP
35.0' P.U.E.
GATE PER CCU DETAIL
30"-18° ADS
3/4" ABOVE GROUND METER & BFP
ABOVE GROUND VALVES SEE LIFT STATION DETAIL SHEET 23 & 26
ODOR CONTROL
GENERATOR PAD
FENCE PER CCU DETAIL
ANTENNA
CONTROL PANEL

31"-36" ADS
180"-36" ADS
126"-24" ADS
118"-24" ADS
176"-36" ADS
27"-18" ADS
97"-18" ADS
36"-36" ADS
38" ADS

12" WM



RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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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

RYAN W. POWERS, P.E.
FL LIC #82437

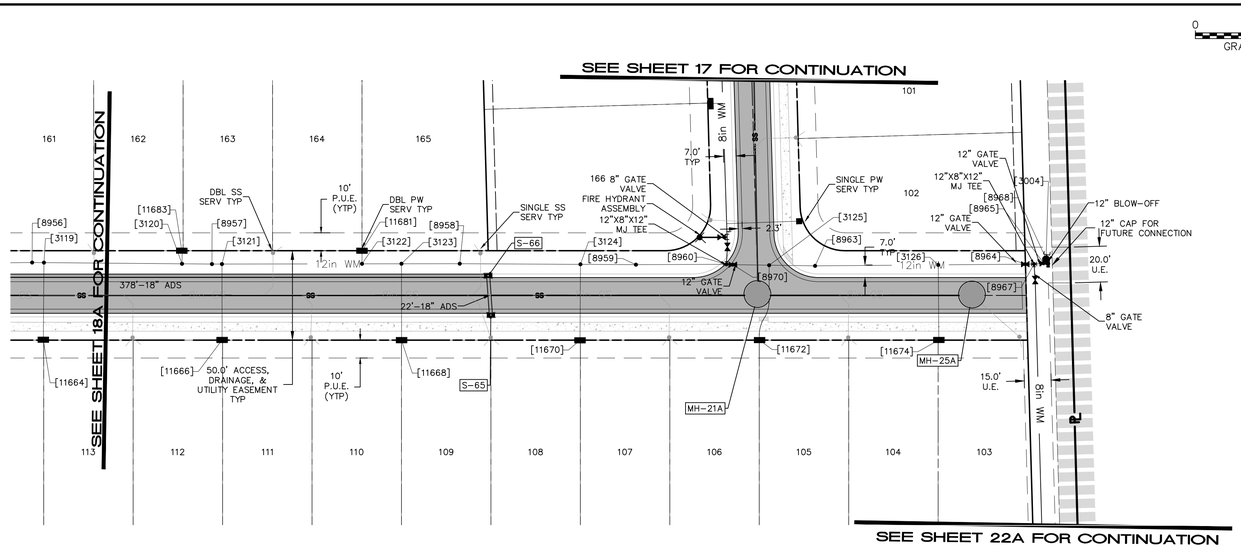
ROAD F - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

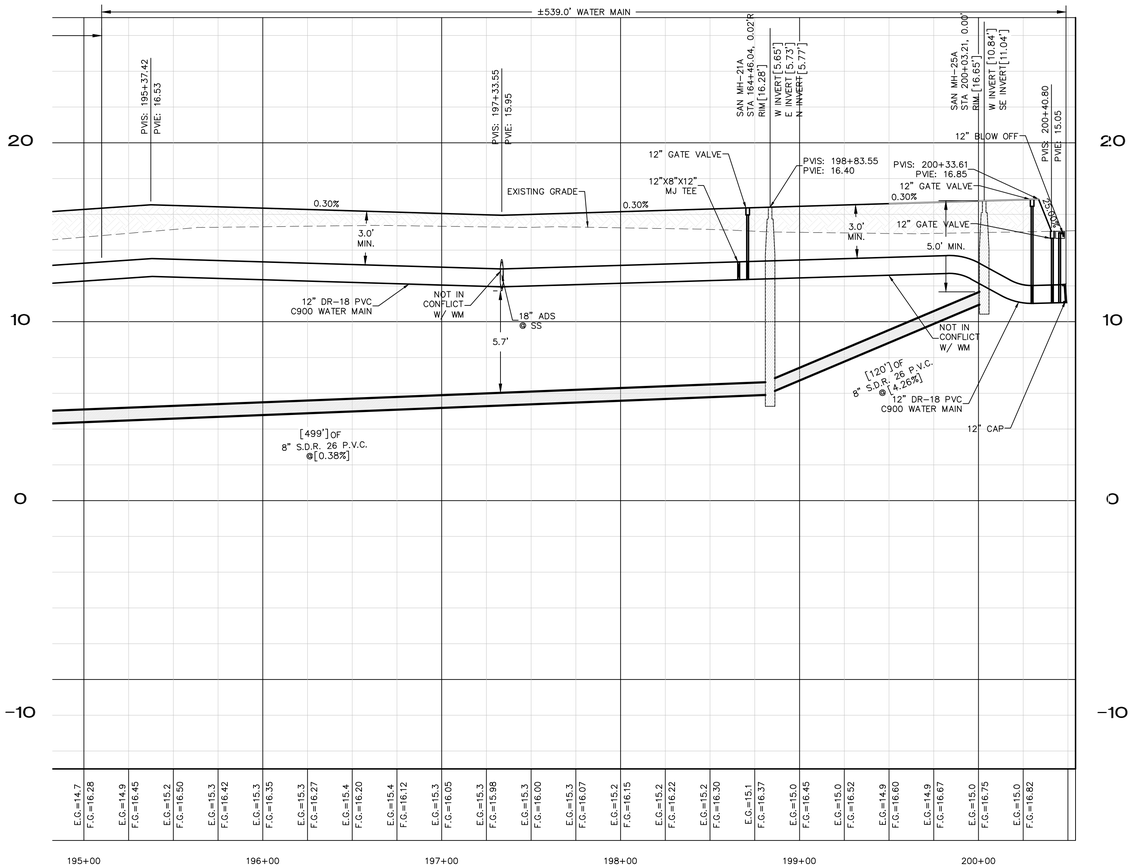
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	18A

S:\JOBS\4500\4570C\ENGINEERING\DESIGN DRAWINGS\UTILITIES\4570C-18-ROAD F - PP.DWG 4/15/2025 8:59 AM TODD VAAN



RECORD POINT TO POINT TABLE		
FROM	TO	DISTANCE
*8951	8960	643.0'
8960	8970	3.6'
8970	8964	163.4'
8964	8967	4.9'
8967	8965	5.4'
8965	8968	2.6'

*POINT IS ON SHEET 18B



CCU PROJECT NUMBER: 23-1026

PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CORAL LAKES - PHASE I

S:\USERS\KSKY\KSKY\DRAWINGS\RECORD DRAWINGS\UTILITIES\4570C-18-ROAD F -PP.DWG 4/15/2025 8:59 AM TODD KSKY

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

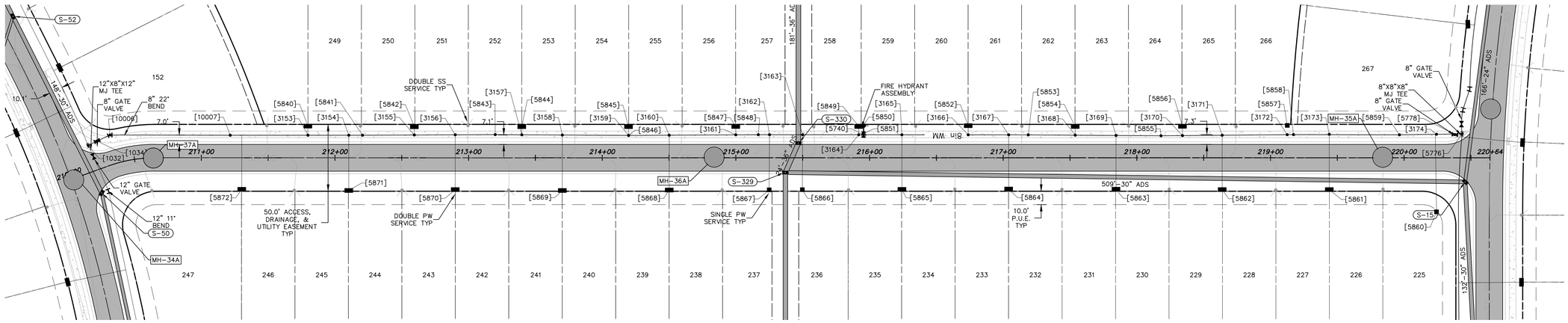
ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

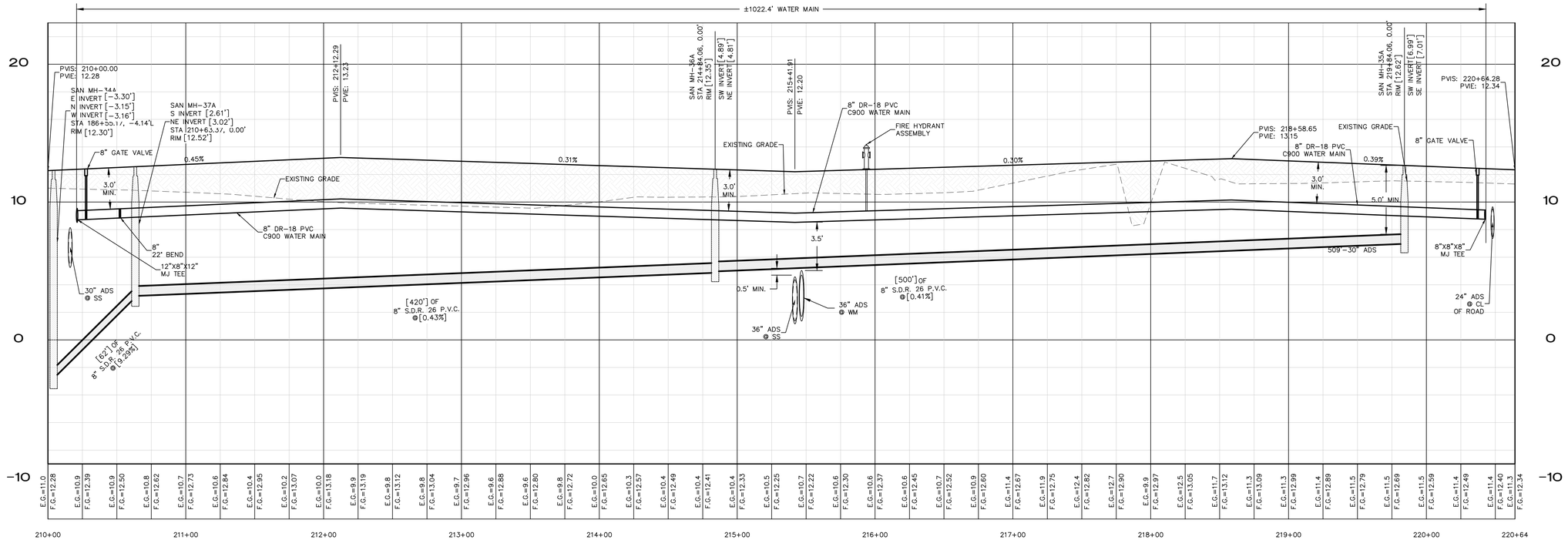
NO.	DATE	REVISION DESCRIPTION	BY

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PHONE: (941) 625-1165 FAX: (941) 625-1149
ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690
WWW.BANKSENG.COM
RYAN W. POWERS, P.E.
FL LIC #82437

ROAD F - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	18B





RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
1032	1034	7.4'
1034	10006	10.7'
10006	10007	90.0'
10007	5740	473.9'
5740	5851	0.7'
5851	5850	6.1'
5740	5778	442.4'
5778	5776	5.4'

PHASE 1A RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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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

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FL LIC #82437

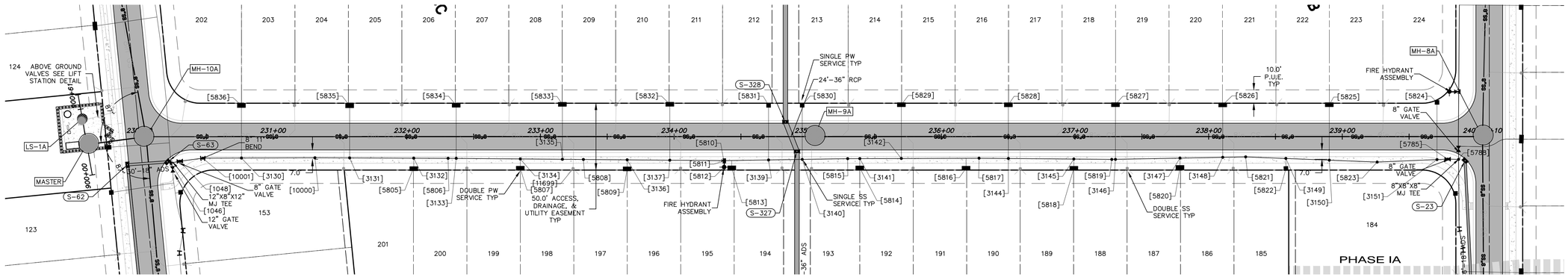
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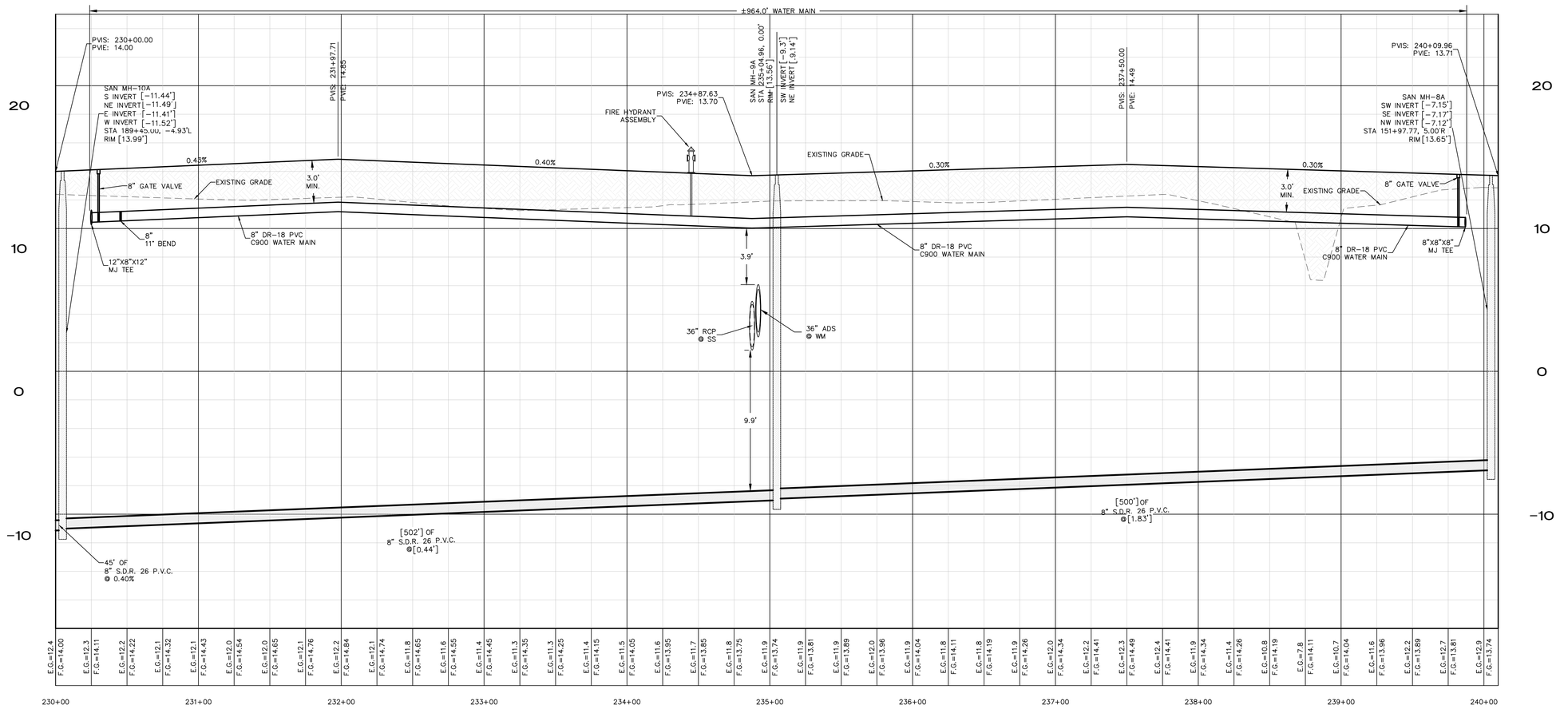
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	19

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RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
1046	1048	6.8'
1048	10001	17.4'
10001	5810	389.8'
5810	5811	0.5'
5811	5812	4.7'
5810	5785	541.6'
5785	5788	8.2'

PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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Serving The State Of Florida

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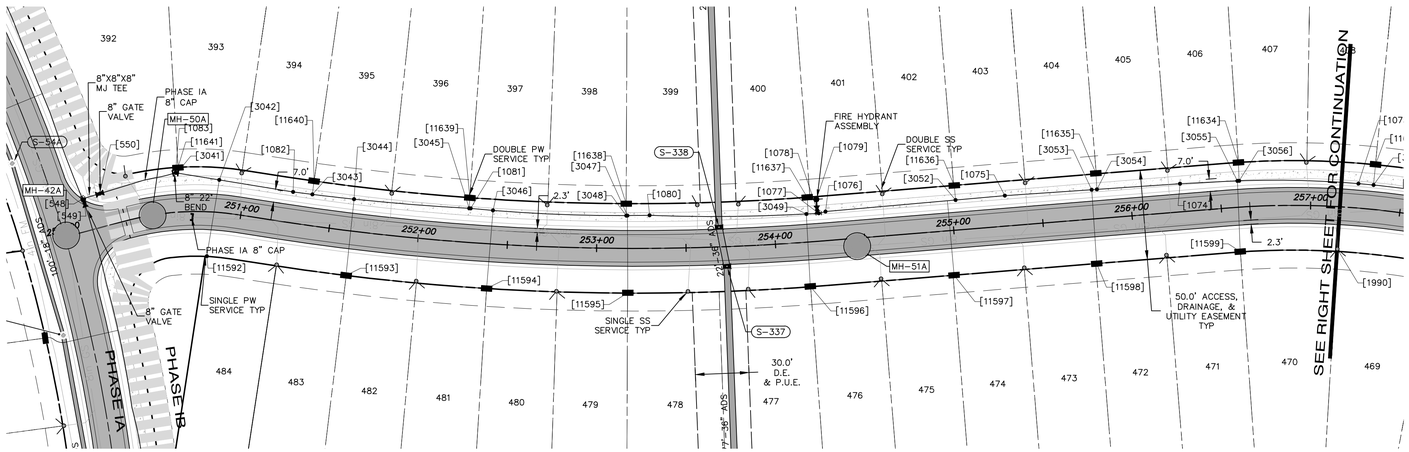
CORAL LAKES - PHASE I

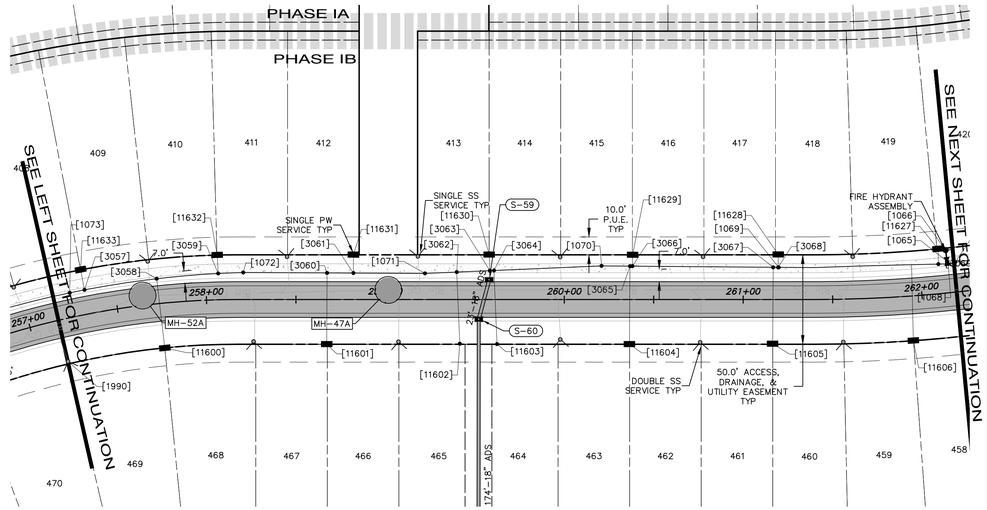
CHARLOTTE COUNTY, FLORIDA

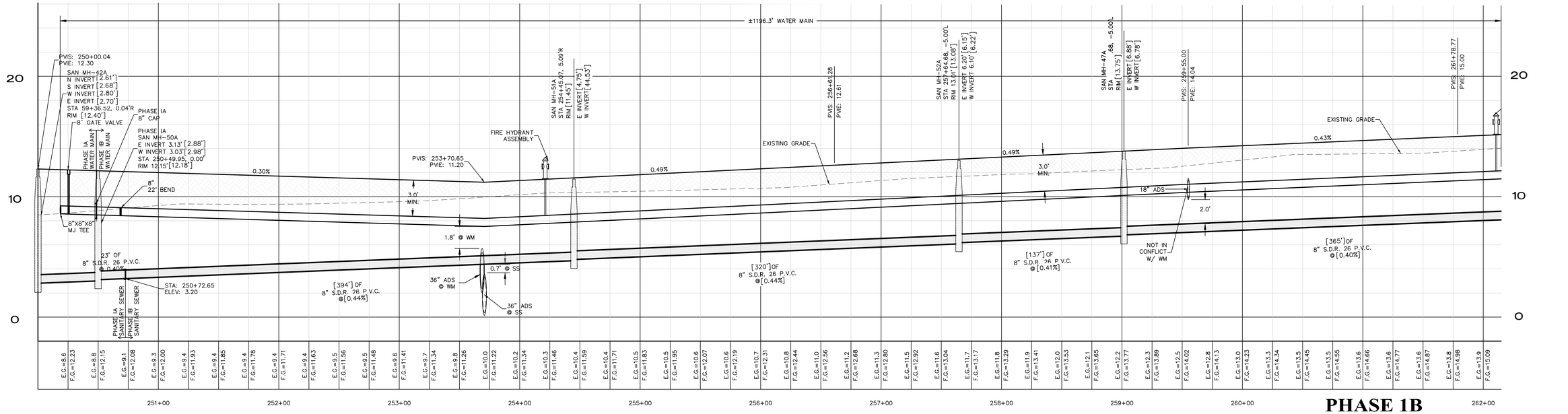
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	20

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RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
548	550	10.1'
550	1083	43.9'
1083	1077	360.2'
1077	1078	2.1'
1078	1079	5.9'
1077	1068	794.5'
1068	1065	1.6'
1065	1066	6.3'







PHASE 1B RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	REVISED PER SHOP DWG REVIEW & MOVED SERVICES TO ROW PER CCU	DCT

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FL LIC #82437

ROAD I - PLAN & PROFILE

CORAL LAKES - PHASE I

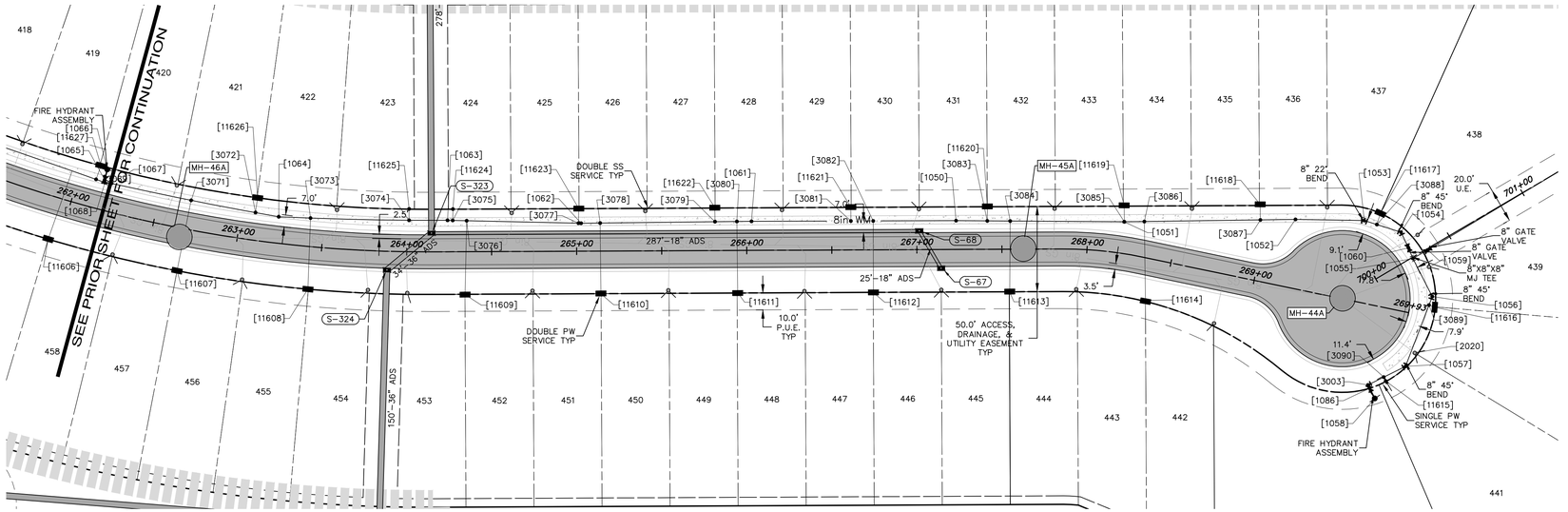
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	21

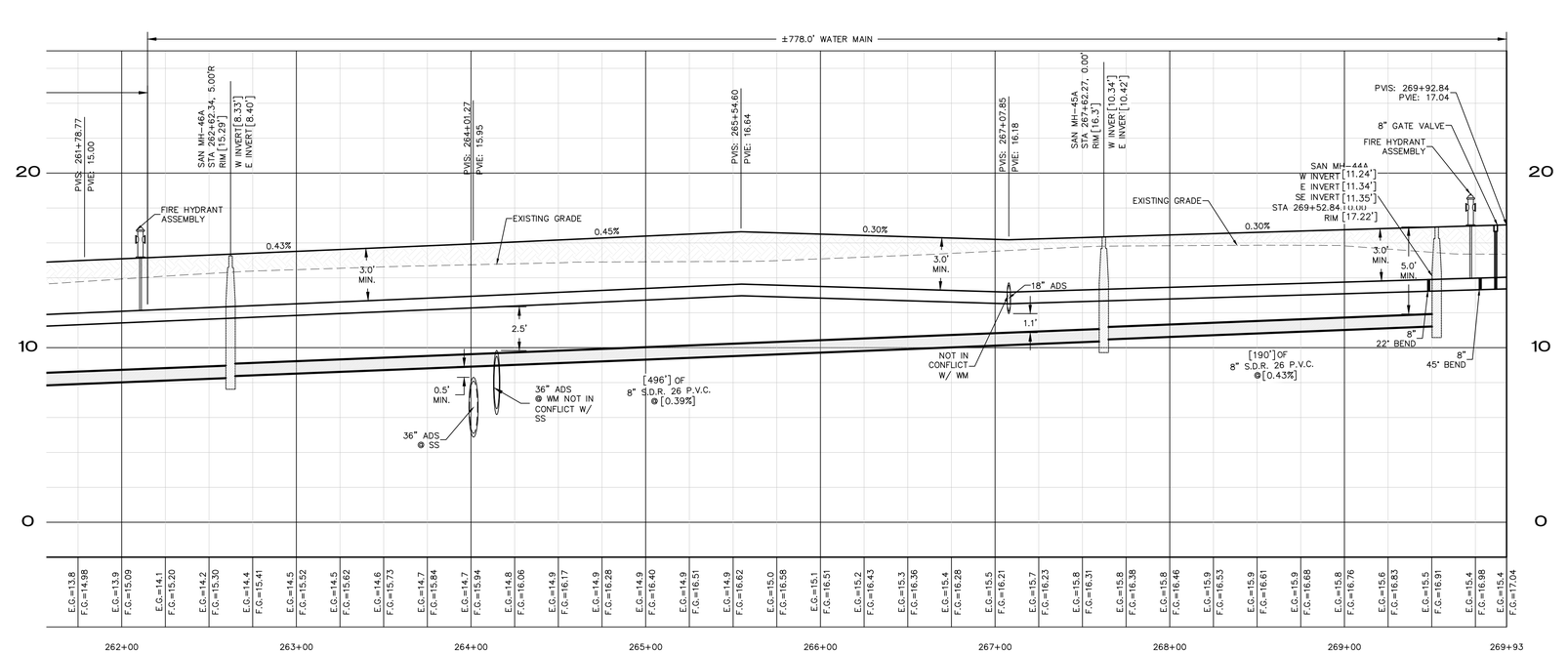
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0 40' 80' 120'
GRAPHIC SCALE 1" = 40 FT

N



RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
1068	1053	740.7'
1053	1054	22.6'
1054	1060	10.2'
1060	1055	6.8'
1055	1056	25.1'
1056	1057	44.0'
1057	3003	24.6'
3003	1086	2.2'
1086	1058	6.8'



RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
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CCU PROJECT NUMBER: 23-1026

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ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

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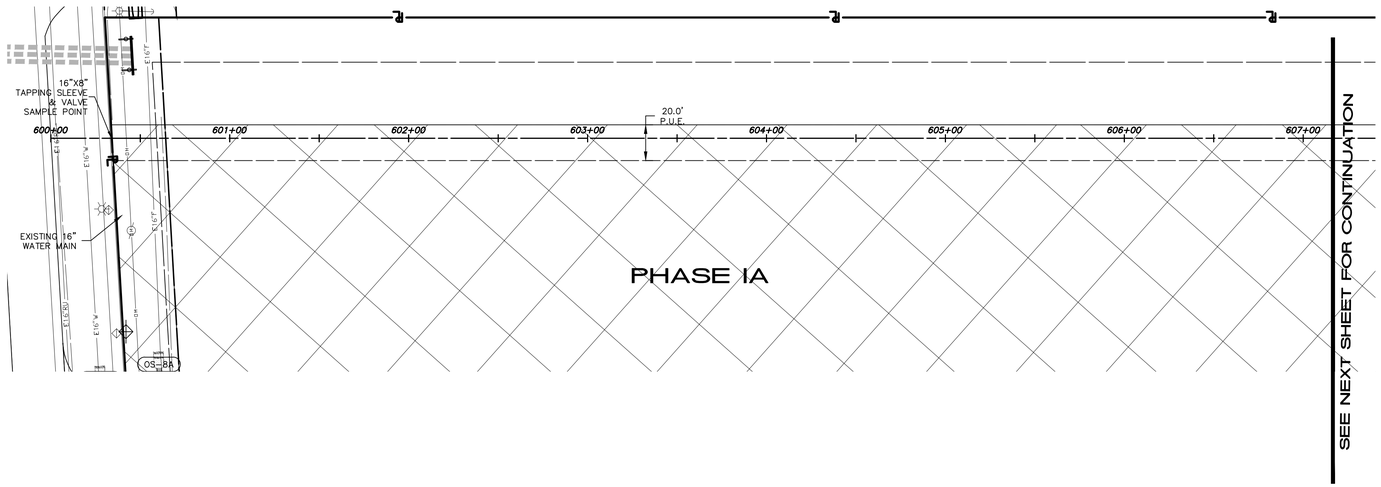
ROAD I - PLAN & PROFILE

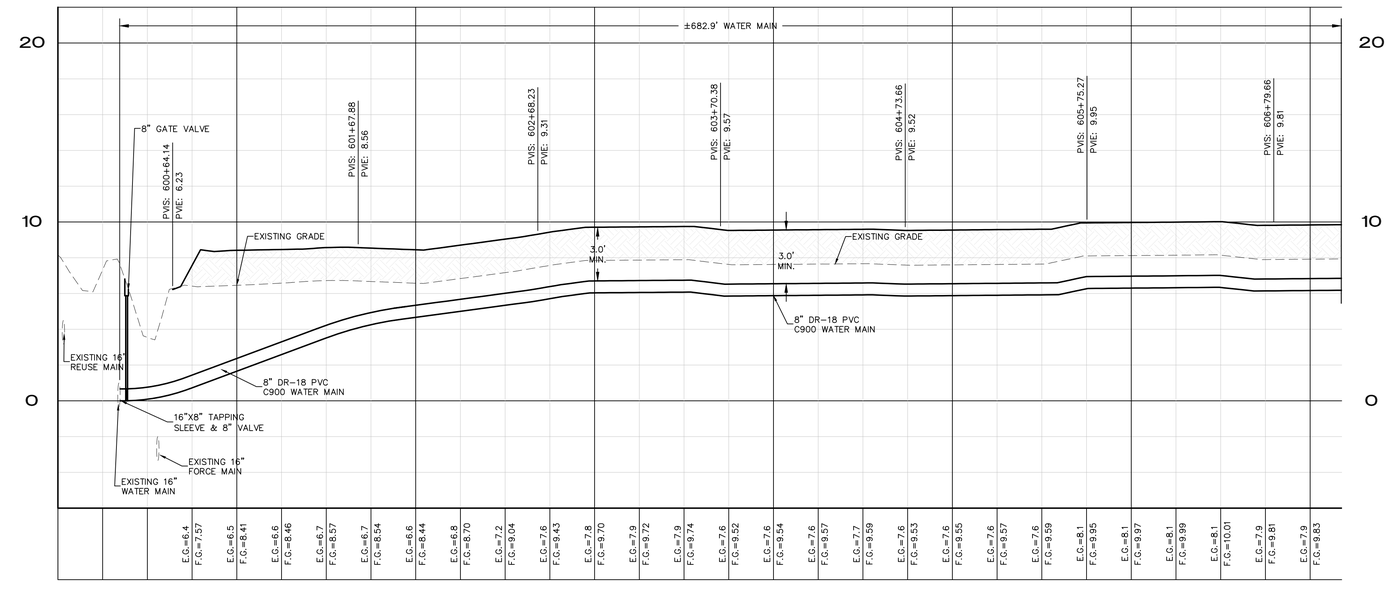
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORIZ:1"=40'	21A

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0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

N

CORAL LAKES - PHASE I

CCU PROJECT NUMBER: 23-1026

PHASE 1A RECORD DRAWING

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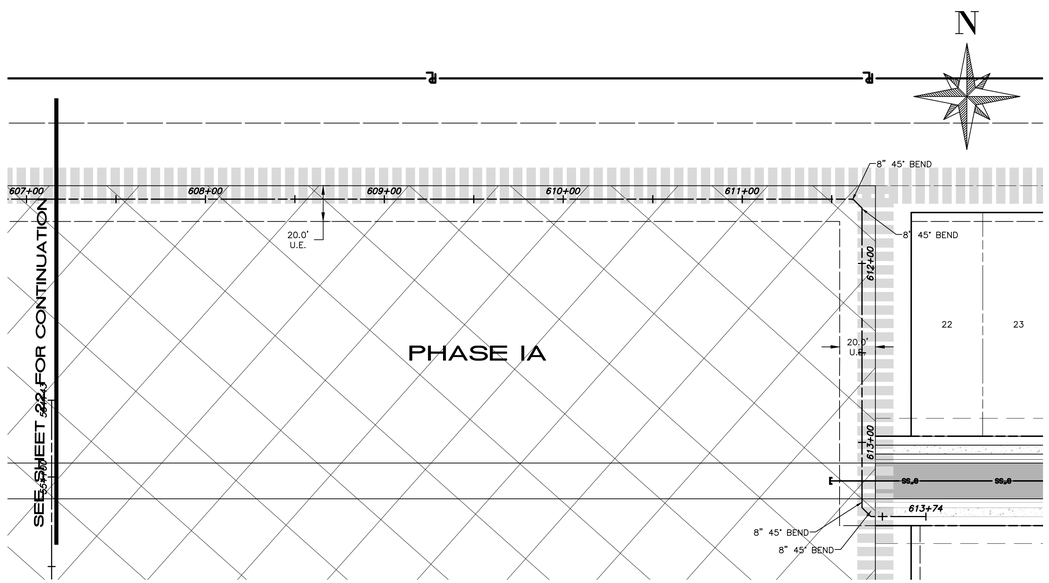
NORTH WATER MAIN CONNECTION - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

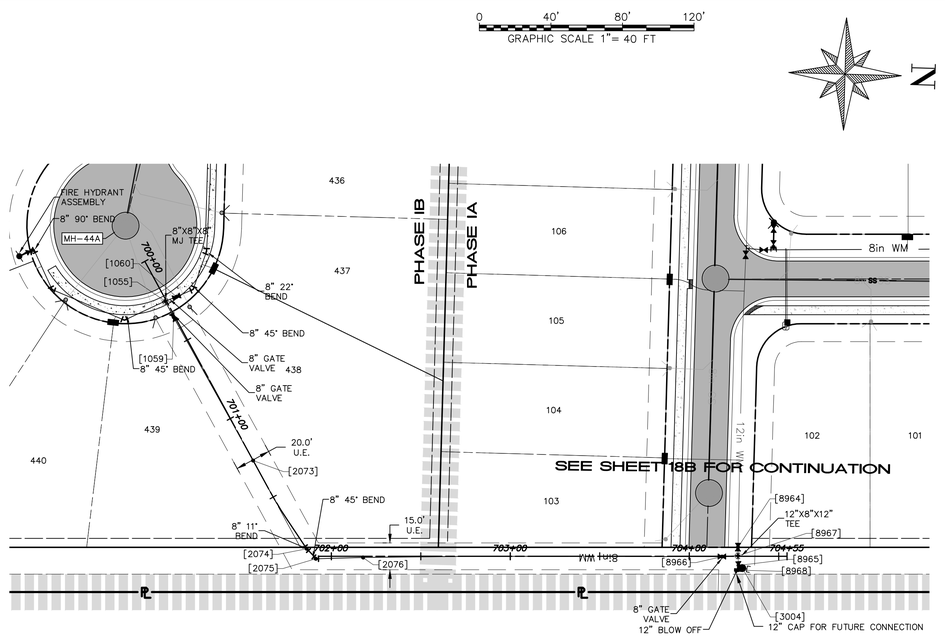
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	22

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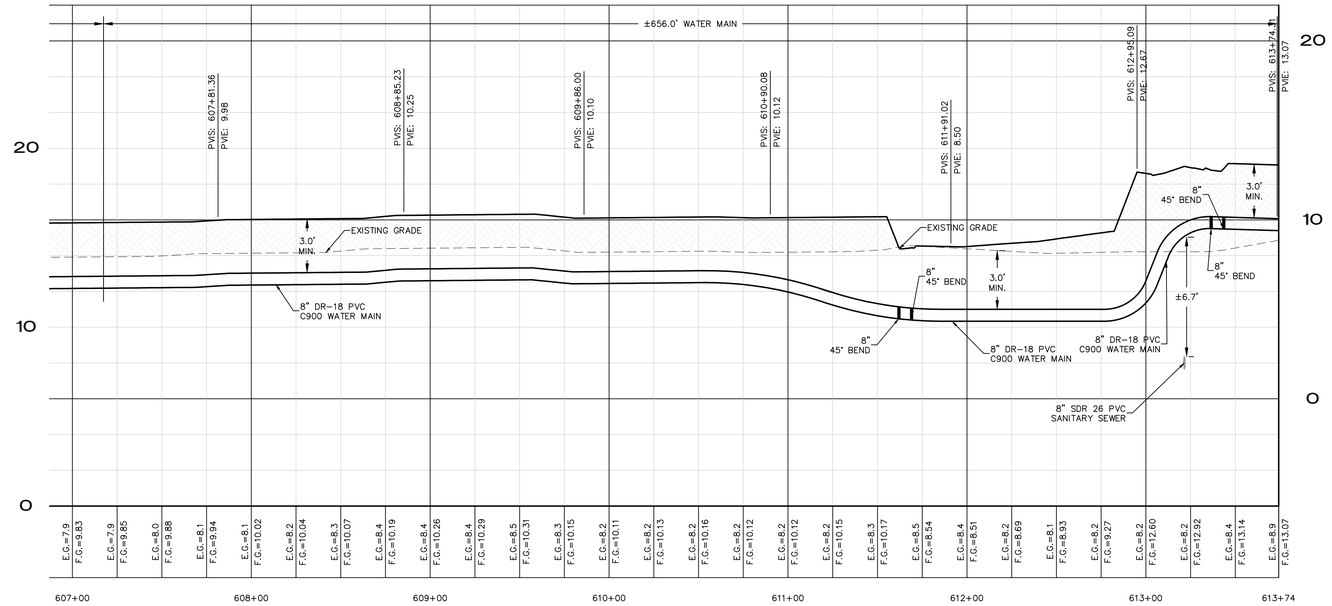


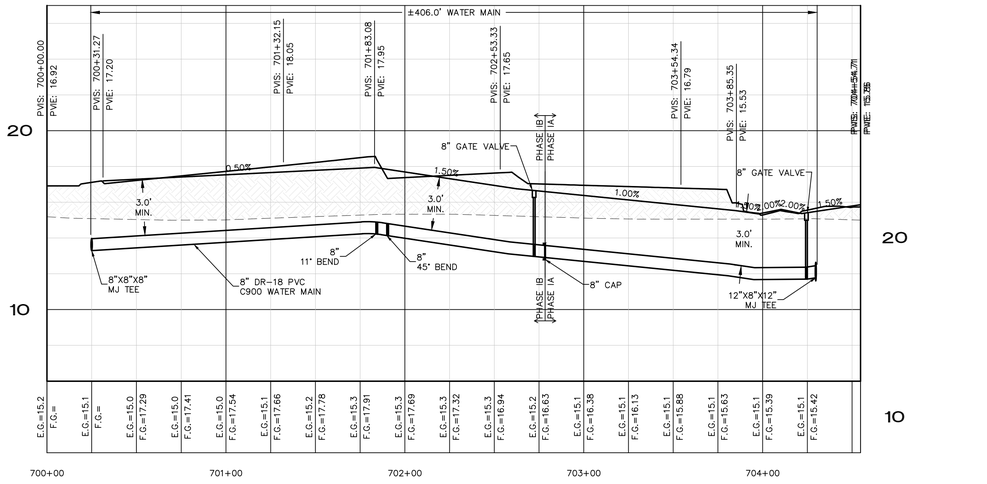
NORTH WATER MAIN CONNECTION

RECORD WATERMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
1055	1059	10.1'
1059	2074	149.4'
2074	2075	7.5'
2075	8966	227.0'
8966	8967	9.0'



WATER MAIN LOOP TO CUL-DE-SAC





PHASE 1A RECORD DRAWING

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CCU PROJECT NUMBER: 23-1026

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NORTH WATER MAIN CONNECTION - PLAN & PROFILE

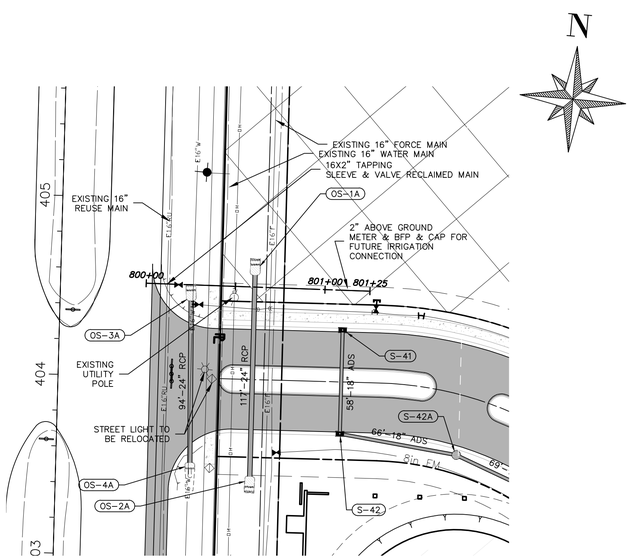
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

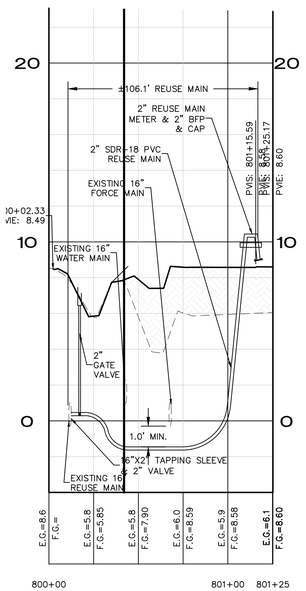
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	22A

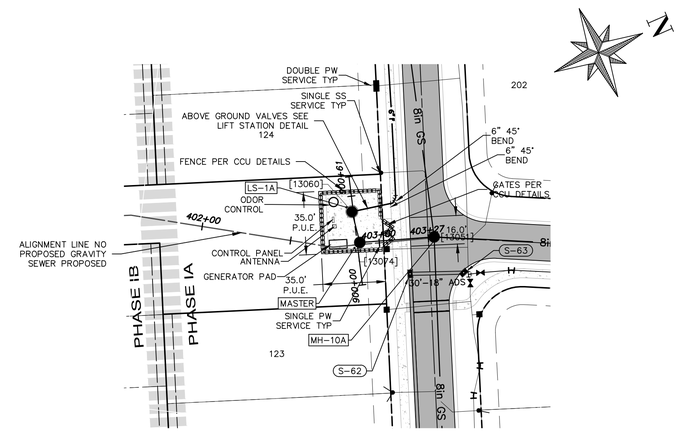
CORAL LAKES - PHASE I

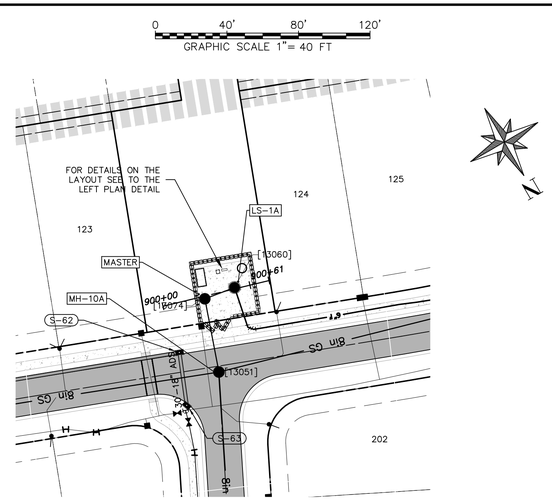
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RE-USE MAIN CONNECTION







LIFT STATION CONNECTION

RECORD DRAWING

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CCU PROJECT NUMBER: 23-1026

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ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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FL LIC #82437

4570C-23-RE-USE MAIN CONNECTION - PP - (1)

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	– – – –

CORAL LAKES - PHASE I

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4585S - DAVID BOULEVARD APARTMENTS

TABLE 1 HORIZONTAL BENDS AND ELBOWS LENGTH OF RESTRAINED JOINT PIPE (FEET)				
NOMINAL PIPE DIAMETER	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4	14	6	3	2
6	20	9	4	2
8	26	11	6	3
10	30	13	7	4
12	36	15	8	4
16	47	20	10	5
20	57	24	12	6
24	66	28	13	7
30	79	33	16	8
36	91	38	19	9

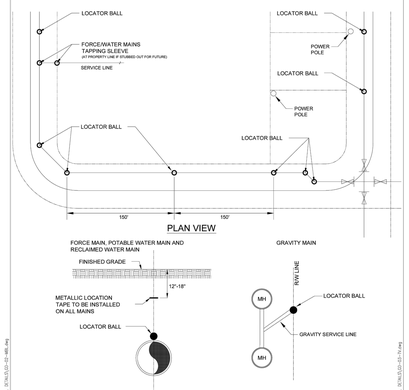
TABLE 2 TEES AND WYES	
NOMINAL PIPE DIAMETER OF BRANCH RUN (IN INCHES)	RESTRAINED LENGTH ALONG BRANCH RUN (IN FEET)
4	11
6	21
8	32
10	48
12	65
16	97
20	128
24	156
30	196
36	233

TABLE 3 REDUCERS		
NOMINAL PIPE DIAMETER		RESTRAINED LENGTH ALONG PIPE (IN FEET)
LARGE END	SMALL END	
6	4	33
8	6	35
10	4	81
10	6	61
10	8	34
12	4	103
12	6	86
12	8	63
12	10	35
16	12	65
20	16	66
24	20	66
30	24	94
36	30	95

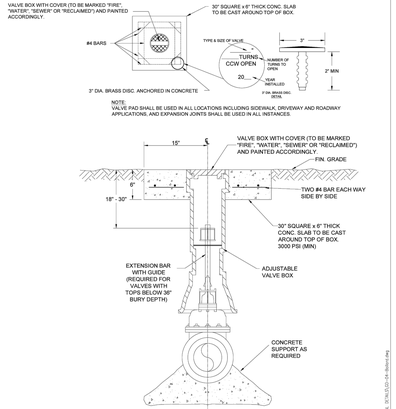
TABLE 4 DEAD ENDS	
NOMINAL PIPE DIAMETER	RESTRAINED LENGTH ALONG PIPE (IN FEET)
4	45
6	63
8	83
10	100
12	118
16	153
20	187
24	220
30	267
36	313

NOTES : (ALL TABLES)
1. FITTINGS SHALL BE RESTRAINED JOINT UNLESS OTHERWISE NOTED.
2. ALL PIPE SHALL BE RESTRAINED IN ACCORDANCE WITH THESE TABLES OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
3. WHERE TWO (2) OR MORE FITTINGS ARE TOGETHER, RESTRAIN JOINTS IN ACCORDANCE WITH FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. RESTRAINT TABLES APPLY TO TEST PRESSURES OF 150 PSI OR LESS.
5. FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUES BY A FACTOR OF 1.5.
6. LENGTH OF RESTRAINED PIPE INDICATED IN TABLES 1 & 4 SHALL BE THE LENGTH OF PIPE ON EACH SIDE OF FITTING OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
7. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 2 SHALL BE THE LENGTH OF PIPE ALONG BRANCH OF PIPE ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER. PIPE ON BOTH SIDES OF BRANCH SHALL HAVE A MINIMUM LAYING LENGTH OF 10 FEET.
8. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 3 SHALL BE THE LENGTH OF PIPE ON LARGE END ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.

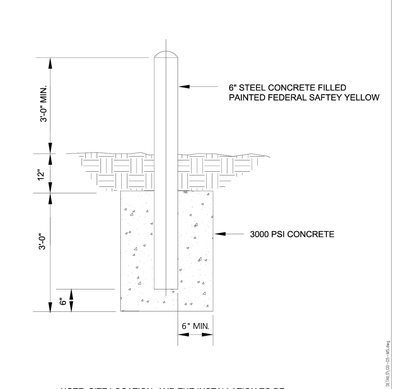
DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
RESTRAINT TABLE
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-01 | ID: GD-01-RT.DWG



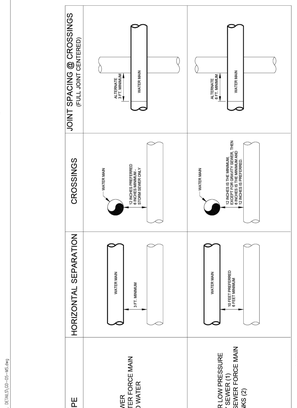
DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
MARKER BALL AND METALLIC LOCATION TAPE INSTALLATION
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-02 | ID: GD-02-MBL.dwg



DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TYPICAL VALVE INSTALLATION
CHARLOTTE COUNTY UTILITIES
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GD-03 | ID: GD-03-TV.dwg

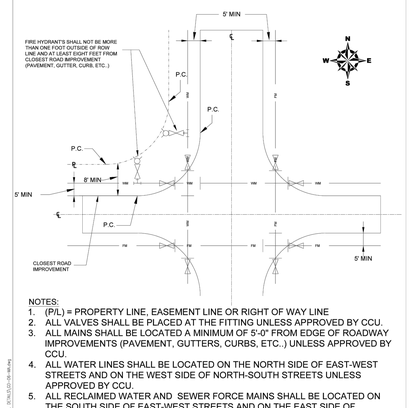


DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TYPICAL BOLLARD
CHARLOTTE COUNTY UTILITIES
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GD-04 | ID: GD-04-Bollard.dwg



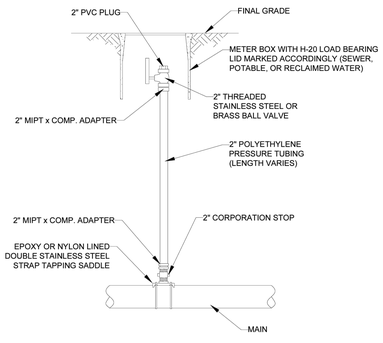
NOTES:
1. ALL CAST IRON GRAVITY TYPE SANITARY SEWERS WHERE THE BOTTOM OF THE WATER MAIN IS LESS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER SHALL BE ENCASED IN CONCRETE.
2. THE SEPARATION BETWEEN POTABLE WATER, RECLAIMED WATER AND OSTDS (SEPTIC TANKS) SHALL BE 10 FEET.
3. WATER MAIN SHALL CROSS ABOVE OTHER PIPE. WHEN WATER MAIN SHALL BE BELOW OTHER PIPE THE SEPARATION SHALL BE 18 INCHES MINIMUM.

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
MAIN SEPARATION
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-05 | ID: GD-05-MS.dwg



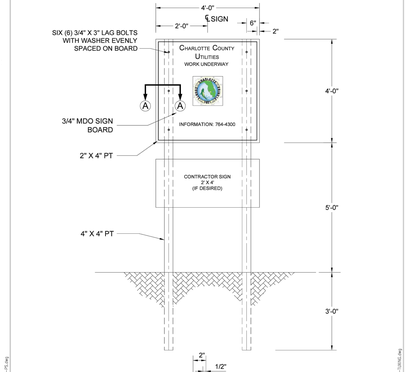
NOTES:
1. (P/L) = PROPERTY LINE, EASEMENT LINE OR RIGHT OF WAY LINE
2. ALL VALVES SHALL BE PLACED AT THE FITTING UNLESS APPROVED BY CCU.
3. ALL MAINS SHALL BE LOCATED A MINIMUM OF 5'-0" FROM EDGE OF ROADWAY IMPROVEMENTS (PAVEMENT, GUTTERS, CURBS, ETC..) UNLESS APPROVED BY CCU.
4. ALL WATER LINES SHALL BE LOCATED ON THE NORTH SIDE OF EAST-WEST STREETS AND ON THE WEST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.
5. ALL RECLAIMED WATER AND SEWER FORCE MAINS SHALL BE LOCATED ON THE SOUTH SIDE OF EAST-WEST STREETS AND ON THE EAST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
ALIGNMENT OF MAINS, VALVES, AND HYDRANTS
CHARLOTTE COUNTY UTILITIES
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GD-06 | ID: GD-06-MA.dwg



NOTE:
1. CUT IN TEES SHALL BE CONNECTED USING RIGID COUPLER
2. INSTALL A SUPPORT BLOCK UNDER THE TAPPING VALVE IF DIRECTED BY CCU.

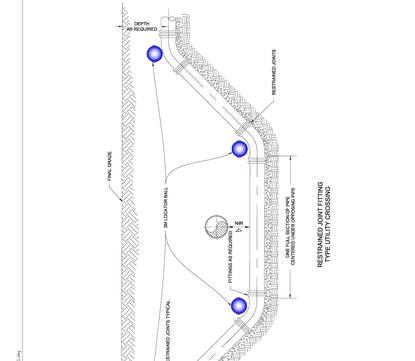
DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TAPPING SLEEVE
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-07 | ID: GD-07-TS.dwg



THRUST BLOCK BEARING AREA TABLE (SQ. FT.)					
SIZE OF PIPE	TEES & PLUGS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2.5	2.5	1.5	1.0	1.0
6"	5.0	5.0	3.0	1.5	1.0
8"	9.0	9.0	5.0	2.5	1.5
10"	14.0	14.0	7.5	4.0	2.0
12"	20.0	20.0	11.0	5.5	3.0
14"	27.0	27.0	15.0	7.5	4.0
16"	35.0	35.0	19.0	10.0	5.0

NOTE:
1. THRUST BLOCKS SHALL BE USED IN CONJUNCTION WITH THE RESTRAINED JOINT TABLE WHEN DIRECTED BY THE ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES.
2. WRAP ALL FITTINGS WITH VISQUEEN BEFORE POURING THRUST BLOCKS. ALL THRUST BLOCKS SHALL BE LEFT OPEN FOR INSPECTION BY CCU.
3. ALL BEARING SURFACE SHALL BE CARRIED TO UNDISTURBED SOIL.
4. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR SOIL WITH A 2,000 P.S.F. SOIL BEARING (A-1 THRU A-3 CLEAN SAND AND GRAVELS)
5. POOR SOIL (A-1 THRU A-8, SILTY SOILS, CLAYS, MUCK & PEAT) SHALL REQUIRE LARGER THRUST BLOCKS.
6. THRUST BLOCK SIZES SHALL BE BASED ON 150 P.S.I. HYDROSTATIC TEST PRESSURE.
7. ALL THRUST BLOCKING SHALL BE 2500 PSI-28 DAY CONCRETE.
8. VERTICAL BENDS ONLY - 1/2" TIE RODS SHALL BE ANCHORED TO REACTION BLOCK AND COATED WITH 2 COATS OF BITUMINOUS EPOXY (16 MILS DRY THICKNESS)
9. VERTICAL BENDS ONLY - THRUST BLOCKS SHALL BE SIZED BY ENGINEER, AND APPROVED BY CCU PRIOR TO CONSTRUCTION.

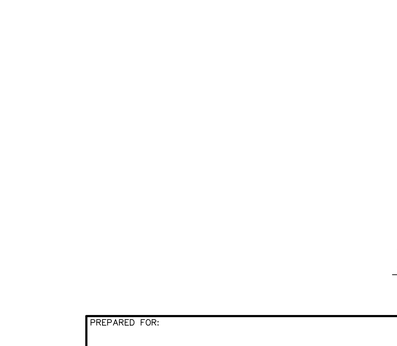
DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TYPICAL THRUST BLOCK DETAILS
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-08 | ID: GD-08-THB.dwg



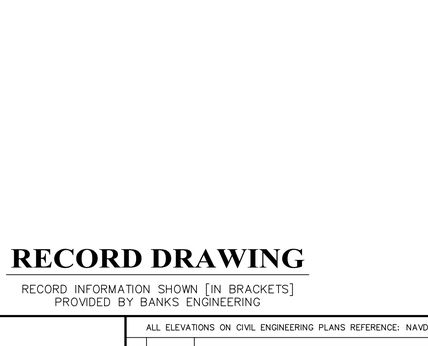
DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TYPICAL DIRECTIONAL BORE
CHARLOTTE COUNTY UTILITIES
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GD-10 | ID: GD-10-DB.dwg

NOTE:
1. DEAD MEN SHALL BE SET PRIOR TO THE FIRST JOINT FROM A VALVE UNLESS IT'S END-OF-LINE. THERE SHALL BE A TIE-BACK ASSEMBLY ON EACH SIDE OF VALVE.
2. ALL JOINTS BETWEEN CONCRETE AND VALVE SHALL BE RESTRAINED.

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TIE-BACK ASSEMBLY
CHARLOTTE COUNTY UTILITIES
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GD-12 | ID: GD-12-TB.dwg



DATE: 1/1/2009 | DRAWN BY: DEC | APPROVED BY: TOD
STANDARD PRESSURE PIPE TRENCH
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PAGE No. GD-13 | NUMBER: G-12-TESFPP



DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: TOD
STANDARD GRAVITY SEWER PIPE TRENCH
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
PAGE No. GD-14 | NUMBER: G-12-TESFGS

NOTE: MANUAL AIR RELEASE MAY BE USED FOR A BACTERIOLOGICAL SAMPLING POINT WITH A TEMPORARY EXTENSION TO 3' ABOVE GROUND. THIS MUST HAVE CCU APPROVAL OR BE SHOWN ON THE ENGINEERING PLANS. SEE TYPICAL BACTERIOLOGICAL SAMPLE POINT DETAIL.

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
MANUAL AIR RELEASE
CHARLOTTE COUNTY UTILITIES
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
GD-15 | ID: GD-15-MAR.dwg

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
CCU PROJECT SIGN
CHARLOTTE COUNTY UTILITIES
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GD-20 | ID: GD-20-PS.dwg

DATE: 11/01/2011 | DRAWN BY: DEC | APPROVED BY: BRB
TYPICAL UTILITY CROSSING
CHARLOTTE COUNTY UTILITIES
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GD-23 | ID: GD-23-TUXING.dwg

RECORD DRAWING
RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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
RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 1
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	24

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GENERAL NOTES:

1. CHARLOTTE COUNTY UTILITIES (CCU) STANDARD SPECIFICATIONS AND STANDARD DETAILS SHALL GOVERN ALL UTILITY WORK. UNDER CERTAIN CIRCUMSTANCES THE STANDARD SPECIFICATIONS AND/OR STANDARD DETAILS MAY BE MODIFIED BY THE SPECIAL PROVISION SECTION OF THE CONTRACT DOCUMENTS IN WHICH CASE THE SPECIAL PROVISIONS SHALL PREVAIL. WHEN A CONFLICT EXISTS AMONG THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF CCU SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED COUNTY AND STATE PERMITS PRIOR TO COMMENCING WORK AND SHALL KEEP ONE COPY OF ALL ISSUED PERMITS AT THE SITE AT ALL TIMES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL ASSURE COMPLIANCE WITH ANY OSHA, EPA, AND/OR OTHER FEDERAL OR STATE OF FLORIDA RULES, REGULATIONS OR OTHER REQUIREMENTS, AS EACH MAY APPLY.
4. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE ONE CURRENT COPY OF CCU SPECIFICATIONS AND DESIGN DETAILS AND ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING ENGINEERING DRAWINGS, SPECIFICATIONS, SPECIAL PROVISIONS, ETC. NO FIELD CHANGES OR DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR CCU WRITTEN APPROVAL.
5. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" PRIOR TO START OF CONSTRUCTION. THE EXISTING UTILITIES SHOWN ON THE ENGINEERING DRAWINGS ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL MARK LOCATIONS OF UTILITIES BY PAINTING AND/OR FLAGGING THE UTILITY ALIGNMENT. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION(S) TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS AND ORDINANCES COVERING THE PROTECTION OF SUCH WORK AND THE SAFETY MEASURES TO BE EMPLOYED THEREIN.
6. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BRING ENGINEERING DRAWING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
7. THE CONTRACTOR SHALL CONTACT THE APPLICABLE COUNTY DEPARTMENTS AND ALL OTHER UTILITY COMPANIES A MINIMUM OF 48-HOURS PRIOR TO START OF CONSTRUCTION. THE CONSTRUCTION MANAGEMENT OFFICE OF CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) CAN BE REACHED AT 941-575-3600 AND CCU AT 941- 764-4515.
8. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY CUSTOMERS 48 HOURS IN ADVANCE IF WATER AND/OR SEWER SERVICE WILL BE INTERRUPTED DURING CONSTRUCTION.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

6. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES OR IN THE UPPER SIX INCHES OF ALL BACKFILL AND FILLS SHALL NOT CONTAIN ANY STONES OR ROCKS LARGER THAN ONE INCH IN DIAMETER. EXISTING BACKFILL MATERIAL SHALL MEET THE ABOVE REQUIREMENTS AS APPROVED BY CCU. BROKEN CONCRETE SHALL NOT BE USED. OUTSIDE THE PIPE ZONE, FILL MATERIAL CONTAINING LIME ROCK SHALL HAVE SUFFICIENT SAND TO FILL THE VOIDS IN THE LIME ROCK. NO STONES OR ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE USED IN ANY BACKFILL.
7. MATERIAL SUITABLE FOR BACKFILL IN A PROPERLY DEWATERED TRENCH SHALL NOT BE EXPANSIVE NOR HAVE HIGH ORGANIC CONTENT; SHALL BE FREE OF DEBRIS, LUMPS AND CLODS; AND SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. MAXIMUM LIQUID LIMIT SHALL NOT EXCEED 12 AS DETERMINED BY ASTM D423.
   b. MAXIMUM PLASTICITY INDEX SHALL NOT EXCEED 35 AS DETERMINED BY ASTM D424.
   c. NOT MORE THAN 10% OF WEIGHT SHALL BE FINER THAN 74 MICRON (NO. 200) U.S. STANDARD SIEVE.
8. READY-MIX FLOWABLE FILL OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED AS AN ALTERNATIVE TO COMPACTED SOIL WITH THE APPROVAL OF CCU OR WHERE SHOWN ON THE ENGINEERING DRAWINGS. APPLICATIONS FOR THE MATERIAL INCLUDE BEDDINGS, ENCASEMENTS, CLOSURES FOR TANKS AND PIPES, AND GENERAL BACKFILL APPLICATIONS FOR TRENCHES AND ABUTMENTS. FLOWABLE FILL SHALL BE DESIGNED TO BE EXCAVATED AND PUMPED FOR APPLICATIONS WHERE STRENGTH IS MORE IMPORTANT THAN EXCAVATABLITY. IF FLOWABLE FILL IS SPECIFIED, ULTIMATE COMPRESSIVE STRENGTH SHALL BE LESS THAN 200 PSI AT 28 DAYS. FLOWABLE FILL IS NOT ACCEPTABLE FOR USE AS BACKFILL UNDER PAVEMENT, SIDEWALKS OR OTHER HARD SURFACES UNLESS OTHERWISE APPROVED IN WRITING BY AUTHORITY WITH JURISDICTION.
9. THE CONTRACTOR SHALL COMPACT ALL PORTIONS OF A TRENCH WITHIN 7.5' OF EXISTING EDGE OF PAVEMENT TO 98% DENSITY, AASHTO T-180, AND 95% FOR OTHER AREAS WITHIN THE RIGHT OF WAY. IF MORE STRINGENT COMPACTION REQUIREMENTS ARE SHOWN ON THE PLANS OR IN THE CONTRACT DOCUMENTS THEY SHALL PREVAIL.
10. COMPACTION OF BACKFILL MATERIAL UNDER PAVEMENT, SIDEWALKS, OR OTHER HARD SURFACES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
11. DENSITY TESTS SHALL BE PERFORMED FOR EACH 6" LIFT AT A MINIMUM OF ONE TEST PER 200 FEET OF TRENCH.
12. ALL WELL POINT HOLES UNDER PARKING, DRIVING, OR ROADWAY SURFACES SHALL BE BACKFILLED WITH CONCRETE IMMEDIATELY AFTER PULLING THE WELL POINTS. ALL OTHER WELL POINT HOLES SHALL BE BACKFILLED WITH FDOT NO. 89 STONE IMMEDIATELY AFTER REMOVING THE WELL POINTS UNLESS SPECIFIED OR DIRECTED TO DO OTHERWISE BY CCU.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

9. IF EXISTING VALVES OR FITTINGS ARE NOT RESTRAINED PROPERLY, THE CONTRACTOR SHALL RESTRAIN EXISTING UTILITIES IN ACCORDANCE WITH CCU REQUIREMENTS AS APPROVED BY CCU.
10. THE CONTRACTOR SHALL INSTALL INCIDENTAL FITTINGS REQUIRED TO RESOLVE CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES AS DETERMINED IN THE FIELD UNLESS OTHERWISE SHOWN ON THE PLANS. ALL MATERIALS, EQUIPMENT, AND LABOR TO RESOLVE INCIDENTAL CONFLICTS SHALL BE PAID FOR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.
11. ALL VALVES SHALL BE INSTALLED OUTSIDE OF PAVEMENTS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS OR APPROVED BY CCU.
12. THE CONTRACTOR SHALL INSTALL ALL OPEN TRENCH BURY PIPE IN AN UPRIGHT VERTICAL POSITION SO ALL LETTERING AND/OR STRIPING CAN BE READ FROM ABOVE. DIRECTIONAL BORE HDPE PIPE SHALL MEET THIS REQUIREMENT TO THE EXTENT POSSIBLE.
13. THE CONTRACTOR SHALL PUSH HOME ALL SPIGOT ENDS OF PVC AND/OR DI PIPE INTO BELL ENDS WITHIN 1/2" OF THE MANUFACTURER'S INSERTION MARK. IF PIPE IS CUT, THE CONTRACTOR SHALL REPLACE AN INSERTION MARK FROM NEW END OF PIPE AS SHOWN ON THE ORIGINAL PIPE.
14. ALL STAINLESS STEEL SHALL BE 316 AUSTENITIC, NON-MAGNETIC UNLESS OTHERWISE APPROVED BY CCU.
15. MARKER BALLS AND METALLIC LOCATION TAPE MUST BE INSTALLED IN ACCORDANCE WITH THE CCU STANDARD DETAILS AND CCU STANDARD SPECIFICATIONS.

DUCTILE IRON EXTERNAL PROTECTIVE COATING

ALL EXPOSED DUCTILE IRON UTILITIES SHALL BE PAINTED AS FOLLOWS IN ACCORDANCE WITH CCU FIELD PAINTING SPECIFICATIONS:

TYPE	COLOR DESIGNATION*
POTABLE WATER LINES	BLUE (PANTONE 287)
POTABLE WATER VALVE CAPS	BLUE (PANTONE 287)
FIRE LINES	ANSI SAFETY RED (PANTONE 485)
FIRE LINE VALVE CAPS	ANSI SAFETY RED (PANTONE 485)
WASTE WATER LINES	ANSI SAFETY GREEN (PANTONE 3415)
WASTE WATER VALVE CAPS	ANSI SAFETY GREEN (PANTONE 3415)
RECLAIMED WATER LINES	PURPLE (PANTONE 522C)
RECLAIMED WATER VALVE CAPS	PURPLE (PANTONE 522C)
FIRE HYDRANTS	ANSI SAFETY YELLOW (PANTONE 109)
FIRE HYDRANT VALVE CAPS	ANSI SAFETY YELLOW (PANTONE 109)

**Equivalent colors matching these colors are acceptable. Provide with Shop Drawing submittal direct color comparisons of color numbers available from manufacturer submitted.*

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MATERIALS AND METHODS OF CONSTRUCTION

ALL MATERIALS AND CONSTRUCTION METHODS USED IN THE CONSTRUCTION OF CCU'S UTILITIES INCLUDING BUT NOT LIMITED TO PIPING, VALVES, FITTINGS, RESTRAINTS, FIRE HYDRANTS, BLOW-OFFS, GRAVITY SEWER MAINS, MANHOLES, LIFT STATIONS, WATER AND SEWER SERVICES AND ALL ASSOCIATED APPURTENANCES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CCU'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.

RESTORATION

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED OR DAMAGED AREAS TO THE SAME OR BETTER CONDITION THAN THAT PRIOR TO THE START OF CONSTRUCTION.
2. ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER THAN THE ORIGINAL CONDITION AND GROUND COVER TO THE SATISFACTION OF THE LOCAL OR STATE AGENCY HAVING JURISDICTION.
3. ALL DISTURBED SWALE OR CANAL GRADES SHALL BE RESTORED TO THE GRADES AND ELEVATIONS THAT EXISTED PRIOR TO DISTURBANCE UNLESS OTHERWISE SPECFIED ON THE ENGINEERING DRAWINGS OR IN THE CONTRACT DOCUMENTS.

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CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

1. OPEN ROAD CUTS REQUIRE PRIOR APPROVAL/PERMIT OF THE COUNTY, STATE, OR OTHER AGENCY HAVING JURISDICTION. CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION (DOT) RIGHT-OF-WAY SHALL CONFORM TO FLORIDA DOT CONSTRUCTION STANDARDS. CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) SHALL BE NOTIFIED 48-HOURS IN ADVANCE OF ALL APPROVED OPEN ROAD CUTS WITHIN COUNTY ROADWAYS/RIGHT-OF-WAYS.
2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT THE JOB SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE PERMIT AND SAFETY REQUIREMENTS FOR THE PROJECT. PROPER DETOUR SHALL BE PROVIDED AS NECESSARY.
3. EXCAVATION SHALL BE CONDUCTED IN A MANNER TO CAUSE THE LEAST POSSIBLE INTERRUPTION TO TRAFFIC. WHERE TRAFFIC MUST CROSS EXCAVATIONS, THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES AT STREET INTERSECTIONS AND DRIVEWAYS.
4. NOT MORE THAN ONE BLOCK OF EXCAVATION SHALL BE OPEN PER CREW AT ANY ONE TIME, AND THIS DISTANCE SHALL BE REDUCED IF CONSTRUCTION CAUSES EXCESSIVE INTERFERENCE WITH TRAFFIC. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC AND PEDESTRIAN SAFETY AT ALL TIMES. ALL EXCAVATED AND/OR STORED MATERIAL SHALL BE REMOVED FROM THE PAVEMENTS AT THE END OF THE WORK DAY UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL CARRY OUT THE WORK SO AS NOT TO DENY UNREASONABLE ACCESS TO PRIVATE PROPERTY. ALL ACCESS SHALL BE RESTORED AT THE END OF THE WORK DAY.
6. ALL UTILITY ACCESS MANHOLES, VALVES, AND FIRE HYDRANTS AND MAIL BOXES SHALL BE ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
7. ROAD SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD), FLORIDA DEPARTMENT OF TRANSPORTATION, OR OTHER GOVERNING AGENCY REQUIREMENTS.
8. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS DAMAGED DURING THE PROJECT.

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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

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DATE: 11/01/2011	STANDARD PRECAST MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-01-PCMH.DWG

TRAFFIC REGULATIONS AND MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND REQUIREMENTS OF THE STATE AND/OR ANY OTHER LOCAL AGENCY HAVING JURISDICTION.
2. WORK AFFECTING TRAFFIC ON ANY COUNTY STREET, ROADWAY, RIGHT-OF-WAY, BIKE PATH, OR SIDEWALK REQUIRES THE PREPARATION AND SUBMITTAL OF MAINTENANCE OF TRAFFIC (MOT) PLAN BY THE CONTRACTOR TO THE COUNTY ENGINEER. THE MOT PLAN SHALL BE APPROVED BY THE COUNTY ENGINEER OR HIS/HER DESIGNEE PRIOR TO THE START OF CONSTRUCTION.
3. WORK AFFECTING TRAFFIC ON ANY STATE ROAD OR HIGHWAY REQUIRES THE PREPARATION AND SUBMITTAL OF A MOT PLAN BY THE CONTRACTOR TO THE FDOT. THE MOT PLAN SHALL BE APPROVED BY THE FDOT PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE IN FULL COMPLIANCE WITH THE APPROVED MOT PLAN AT ALL TIMES.
5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL TRAFFIC CONTROL SIGNS AND DEVICES, BARRICADES, FLASHERS, ETC. IN WORKING CONDITION AT ALL TIMES.
6. ROAD CLOSURE WHETHER TEMPORARY ON A DAILY BASIS OR PERMANENTLY DURING CONSTRUCTION REQUIRES THE APPROVAL OF A DETOUR PLAN BY THE AGENCY OR AGENCIES HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SIGNAGE WHEN THE ROADWAY IS TO BE CLOSED OR TRAFFIC DETOURED. WHEN ROAD CLOSURES ARE TEMPORARY ALL STREETS SHALL BE RE-OPENED TO TRAFFIC BY THE END OF THE WORK DAY AND ALL DETOUR SIGNS COVERED OR REMOVED. WHEN ROADS ARE PERMANENTLY CLOSED DURING CONSTRUCTION ACCESS MUST BE PROVIDED TO PROPERTIES LOCATED ON THE CLOSED ROAD AT THE END OF EACH WORK DAY AND ON WEEKENDS.
7. DURING NON-DAY LIGHT HOURS OR RESTRICTED VISIBILITY, THE CONTRACTOR SHALL PROPERLY ILLUMINATE THE WORK BY THE INSTALLATION AND MAINTENANCE OF SUITABLE LIGHTS OR FLARES ESPECIALLY ALONG OR ACROSS THOROUGHFARES.

ENVIRONMENTAL REQUIREMENTS

1. THE CONTRACTOR SHALL REFER TO CCU SPECIFICATIONS FOR "EROSION AND SEDIMENT CONTROL".
2. PRIOR TO THE START AND DURING CONSTRUCTION ACTIVITIES, FOR AREAS WITHIN AND ADJOINING THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROTECTION BARRICADES/SILT FENCES/ADEQUATE MEASURES IN ACCORDANCE WITH COUNTY AND STATE REQUIREMENTS FOR ALL DESIGNATED TREES/PLANTS TO BE PROTECTED, WETLANDS, THREATENED AND/OR ENDANGERED SPECIES ETC.

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DRAWN BY: DEC		GN-04
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

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DATE: 11/01/2011	SHALLOW PRECAST MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-02-SPCMH.dwg

BEDDING, BACKFILL, AND COMPACTION

1. ALL PIPES BEDDING MATERIAL SHALL BE NEW MATERIAL UNLESS OTHERWISE APPROVED BY CCU.
2. FOUNDATION MATERIAL OR BEDDING STONE SHALL BE USED FOR BEDDING OF PIPE AND/OR MANHOLES AS INDICATED ON THE ENGINEERING DRAWINGS. CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, AND SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES AND OTHER DELETERIOUS MATERIALS. THE STONE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33, SIZE NO. 57 (3/4 INCH STONE) AND BE GRADED WITHIN THE FOLLOWING LIMITS:

U.S. SIEVE SIZE	PERCENT FINER BY WEIGHT
1 1/2 INCH	100
1 INCH	95-100
1/2 INCH	25-100
NO. 4	0-10
NO. 8	0-5

3. SAND FOR BEDDING OF THE POLYVINYL CHLORIDE (PVC) GRAVITY SEWER PIPE SHALL BE A DRY SCREENED AND GRADED MATERIAL WITH 95 PERCENT PASSING 1 INCH SIEVE AND NOT MORE THAN FIVE PERCENT PASSING A NO. 200 SIEVE. ALL PVC GRAVITY SEWER PIPE SHALL BE INSTALLED AND BEDDED IN ACCORDANCE WITH ASTM SPECIFICATION D-2321, "RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE".
4. FOUNDATION STABILIZATION MATERIAL SHALL MEET CCU SPECIFICATIONS OR DESIGN DETAILS. IF DETERMINED BY CCU THE MATERIAL IN THE BOTTOM OF THE TRENCH IS UNSUITABLE FOR SUPPORTING THE PIPE, THE CONTRACTOR SHALL EXCAVATE BELOW THE FLOW LINE OF THE PIPE. THE TRENCH SHALL BE BACKFILLED TO SPECIFIED GRADE WITH FOUNDATION STABILIZATION MATERIAL. IF THE TRENCH IS PROPERLY DEWATERED, CCU APPROVED BACKFILL MATERIAL MAY BE USED FOR STABILIZATION. CRUSHED ROCK (NO. 57 STONE) SHALL BE USED WHEN A DRY TRENCH CANNOT BE OBTAINED. THE FOUNDATION STABILIZATION MATERIAL SHALL BE PLACED OVER THE FULL WIDTH OF THE TRENCH AND COMPACTED IN LAYERS NOT EXCEEDING SIX INCHES DEEP TO THE REQUIRED GRADE.
5. BACKFILLING OF TRENCHES SHALL NOT BE ALLOWED UNTIL THE WORK HAS BEEN APPROVED BY CCU. WORK BACKFILLED OR CONCEALED WITHOUT THE KNOWLEDGE OF CCU SHALL BE UNCOVERED OR EXPOSED FOR INSPECTION AT NO COST TO THE OWNER.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

C:\Users\dec.KEYSTONE\Desktop\Work\Projects\2012 Details\GENERIC\GS-03-OSDMH.dwg

DATE: 11/01/2011	OUTSIDE DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-03-OSDMH.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

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SURVEY LICENSE # LB 6690

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RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 2

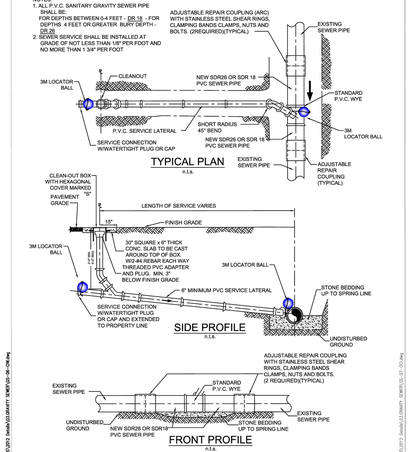
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

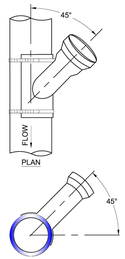
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	25

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NOTES:
1. ALL P.V.C. SANITARY GRAVITY SEWER PIPE SHALL BE:
   FOR DEPTHS BETWEEN 0-4 FEET - DR 18 - FOR DEPTHS 4 FEET OR GREATER BURY DEPTH - DR 26
2. SEWER SERVICE SHALL BE INSTALLED AT GRADE OF NOT LESS THAN 1/8" PER FOOT AND NO MORE THAN 1 3/4" PER FOOT

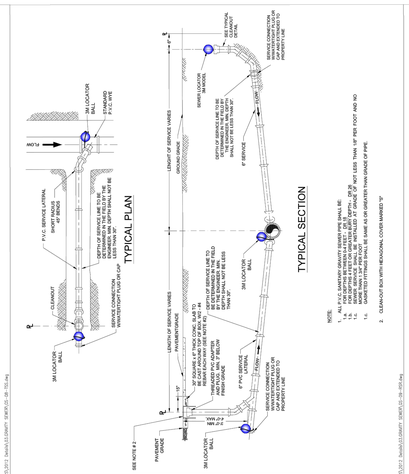


DATE: 11/01/2011	GRAVITY SEWER CUT-IN WYE & SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-06
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-06-CW.dwg

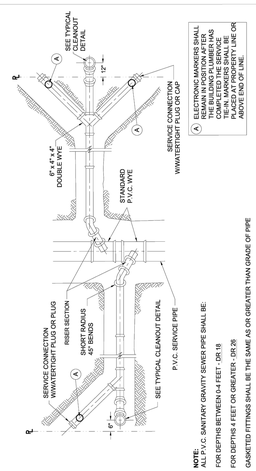


NOTES:
1. CONNECTIONS TO EXISTING SEWER MAINS SHALL BE MADE BY CONTRACTOR IN ACCORDANCE WITH CHARLOTTE COUNTY UTILITIES SPECIFICATIONS.
2. IN NO CASE SHALL CONNECTION BE MADE DIRECTLY ON TOP OF SEWER MAIN.
3. NO MORE THAN ONE CUT IN WYE SHALL BE ALLOWED FOR EACH LENGTH OF SEWER MAIN.
4. TAP SHALL BE MADE AT APPROXIMATELY CENTER OF JOINT LENGTH.
5. THE HOLE FOR THE COLLAR WYE FITTING FOR A SEWER SADDLE SHALL BE MADE WITH A TAPPING MACHINE. THE HOLE SHALL BE CLEANLY MACHINED AND IF NECESSARY WORKED BY HAND WITH A RASP OR SANDED TO ACCOMPLISH A TRUE AND NEAT OPENING FOR THE COLLAR WYE.
6. THE COLLAR WYE SADDLE SHALL BE SECURED TO THE SEWER WITH APPROVED STAINLESS STEEL BANDS.
7. ALL CHIPS, DIRT, EPOXY, MORTAR, AND CONCRETE SHALL BE KEPT OUT OF THE SADDLED SEWER. CLEANING AND BALLING OF THE SADDLED REACH SHALL BE PERFORMED IF REQUIRED BY CCU.
8. ANY DAMAGED PIPE SHALL BE REPAIRED OR REPLACED AS DIRECTED BY CCU.
9. COLLAR WYE SADDLE OR CUT IN WYE TO BE USED WHEN LATERAL IS 4" OR 8" IN DIAMETER. FOR 6" AND OVER, A STANDARD MANHOLE CONNECTION SHALL BE USED.
10. MAIN LINE SHALL BE BROKEN OUT FOR SADDLE ONLY IN THE PRESENCE OF CCU PERSONAL.

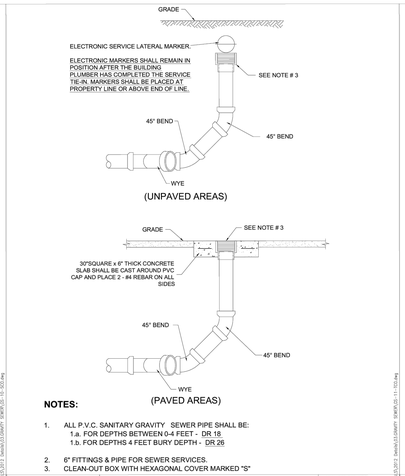
DATE: 11/01/2011	OPTIONAL GRAVITY SEWER WYE CUT-IN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-07
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-07-OCI.dwg



DATE: 11/01/2011	TYPICAL SEWER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-08-TSS.dwg

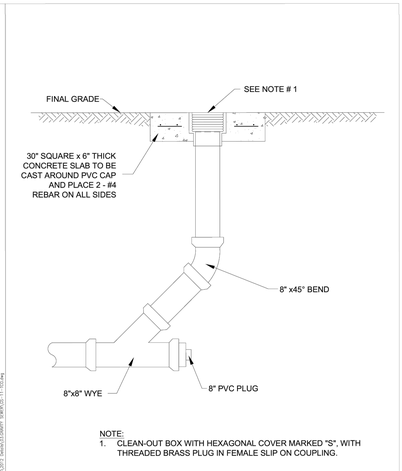


DATE: 11/01/2011	TYPICAL RESIDENTIAL SEWER SERVICE WITH RISER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-09
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-09-RSR.dwg



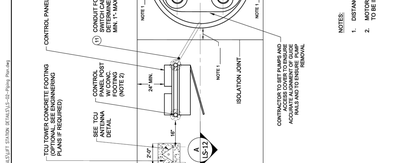
NOTES:
1. ALL P.V.C. SANITARY GRAVITY SEWER PIPE SHALL BE:
   1.a. FOR DEPTHS BETWEEN 0-4 FEET - DR 18
   1.b. FOR DEPTHS 4 FEET BURY DEPTH - DR 26
2. 6" FITTINGS & PIPE FOR SEWER SERVICES.
3. CLEAN-OUT BOX WITH HEXAGONAL COVER MARKED "S"

DATE: 11/01/2011	TYPICAL CLEANOUT DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-10-SCO.dwg



NOTE:
1. CLEAN-OUT BOX WITH HEXAGONAL COVER MARKED "S", WITH THREADED BRASS PLUG IN FEMALE SLIP ON COUPLING.

DATE: 11/01/2011	TEMPORARY TERMINAL CLEANOUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-11
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-11-TCO.dwg



DATE: 11/01/2011	MANHOLE RING & COVER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-12
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-12-MHRC.dwg

NOTE: LIFT STATION IS TO HAVE AN ACCESS DRIVE A MINIMUM OF 16' WIDE AND CONTINUOUS FROM ROAD TO ACCESS GATE. ACCESS DRIVE IS TO BE BUILT PER ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES' SPECIFICATIONS.

DATE: 7/01/2016	SITE LAYOUT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-01
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-01_Site Plan.dwg

DATE: 07-01-2016	PIPING PLAN LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-02
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-02-Piping Plan.dwg

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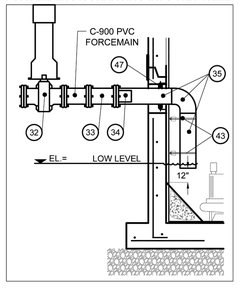
APPROVED BY: MM
DRAWN BY: KBC
DATE: 07-01-2016

LIFT STATION SECTION A-A
LIFT STATION DETAIL
CHARLOTTE COUNTY UTILITIES

ID: LS-03-Piping Section.dwg
LS-03
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

25 YEAR FLOOD ELEVATION = 10.22
100 YEAR FLOOD ELEVATION = 11.26
500 YEAR FLOOD ELEVATION = 13.50

FORCEMAIN DISCHARGING INTO WET WELL



SECTION A-A, THROUGH WET WELL

NOTES:
1. MAXIMUM HEIGHT FROM BOTTOM OF PIPE TO TOP OF SLAB 24".
2. FINAL WET WELL DIMENSIONS ARE BASED ON WET WELL ANTI-FLOTATION CALCULATIONS.
3. MINIMUM DISTANCE BETWEEN INFLUENT INVERT AND WETWELL BOTTOM SHALL BE 5 FT.

RECORD DRAWING
RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

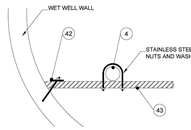
BANKS ENGINEERING
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4161 TAMIAMI TRAIL – BLDG 5 UNIT 501
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SURVEY LICENSE # LB 6690
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RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 3
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

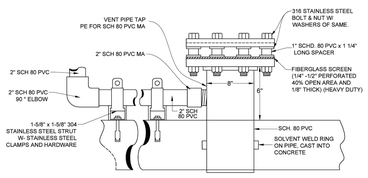
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	26

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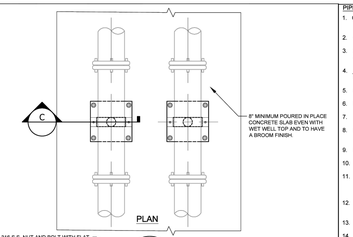


DETAIL 'A'

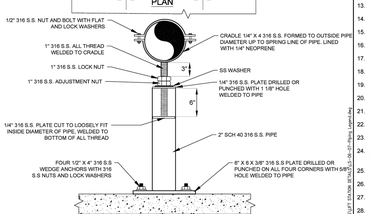


DETAIL 'B'

DATE: 07-01-2016	DETAILS 'A' AND 'B' LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-04
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-04-Details A-B.dwg



PLAN



SECTION C

NOTE:
MAXIMUM HEIGHT FROM BOTTOM OF PIPE TO TOP OF SLAB 24"

DATE: 07-01-2016	PIPE SUPPORT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-05
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-05-PIPE SUPPORT.dwg

PIPING PLAN & SECTION LEGEND:

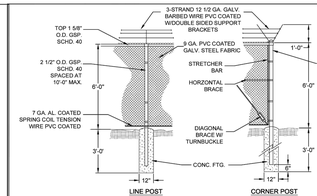
1. CENTRIFUGAL NON-CLOG SUBMERSIBLE PUMP - TYPE FLYGT, MODEL NO. 3249 , IMPELLER NO. 146 , 230 VOLTS, 3 PHASE 356 GPM @ 55 TDH, (2 REQUIRED) 11 HORSE POWER
2. ANCHOR BOLTS 4 PER PUMP
3. CHARLOTTE COUNTY UTILITIES APPROVED MANUFACTURER COMPATIBLE " STANDARD DISCHARGE CONNECTION (2 REQ'D.) ADJUST FOR PUMP TO WETWELL BOTTOM CLEARANCE AS REQUIRED BY PUMP MANUFACTURER WITH 4000 PSI TYPE II CONCRETE
4. 2 " DIAMETER PVC SCH. 40 WELDED STAINLESS STEEL PIPE TYPE 316, MUST BE WITHIN 1/4" TOLERANCE OF FITTING INTO GUIDE RAIL BRACKETS AS PER MFG. (4 REQUIRED)
5. UPPER GUIDE RAIL BRACKETS (2 REQUIRED)
6. FOR GUIDE RAILS OVER 15 FT INSTALL INTERMEDIATE GUIDE RAIL BRACKETS (2 REQUIRED) (SEE LIFT STATION DETAIL "A")
7. PUMP LIFTING CHAIN (2 REQUIRED).
8. LIQUID LEVEL SENSOR, EACH SENSOR CABLE SHALL BE CONTINUOUS (NO SPLICES) AND A MINIMUM OF 40 FEET IN LENGTH, 4 REQUIRED, 5 REQUIRED IF TCU EQUIPPED
9. PUMP POWER CABLE (2 REQUIRED)
10. LIQUID LEVEL SENSOR CABLE HOLDER TYPE 316 SS WITH PUMP LIFTING CABLE RING. FURNISH WITH NOT LESS THAN 6 PRONGS.
11. 2" CONDUIT FOR CABLES (3 REQUIRED). FROM TOP OF SWEEP TO MCC TO BE PVC SCH. 80 ELECTRICAL GRADE. FROM TOP OF SWEEP TO INSIDE OF WET WELL TO BE PVC SCH. 80, CLAMP CONDUIT TO BOTTOM STRUT OF MOTOR CONTROL CABINET (MCC). (SEE STANDARD LIFT STATION SECTION A-A DETAIL)
12. 1" CONDUIT FOR CABLE FROM TOP OF SWEEP TO MCC, TO BE PVC SCH. 80 ELECTRICAL GRADE, FROM TOP OF SWEEP TO BOTTOM OF SLAB TO BE PVC SCH. 80
13. 4 " DIPS SDR-11 HDPE WITH FUSED FLANGE W/ STAINLESS STEEL BACK UP RING, (USE BENDS AS NECESSARY)
14. 4 " HDPE FUSION COUPLER (IF NEEDED)
15. 4 " DIPS SDR-11 HDPE 90 DEGREE ELBOW WITH FUSED FLANGE W/ STAINLESS STEEL BACK UP RING AT SPOOL PIECE
16. 4 " x 24" LONG FLANGE BY FLANGE DI PIPE
17. 4 " MUELLER R M&H "QUIET CLOSING SWING CHECK" WITH WEIGHT AND LEVER
18. 4 " PLUG VALVE (3 REQ'D.)
19. 4 " PLUG VALVE
20. 4 " DUCTILE IRON PIPE (DIP) TEE (2 REQ'D)
21. 4 " COUPLER
22. 6 x 4 " DIP COMPANION FLANGE
23. 2" FLANGED AUTOMATIC AIR-RELEASE VALVE (ARV) WITH " EPOXY COATED STAINLESS STEEL STRAP SADDLE
24. 1 1" OR 2" (MATCH ARV DISCHARGE) PVC SCH. 80. DISCHARGE LINE FROM ARV's, WITH FITTINGS (FROM ARV's INTO TOP OF VENT)
25. 6 " x 18" LONG CLASS 53 DIP EPOXY LINED PIPE FLANGE x FLANGE
26. 6 " x 6 " EPOXY LINED DI FLANGED REDUCER (IF NEEDED)
27. 6 " x 90° EPOXY LINED DIP FLANGED BEND
28. 6 " x 90° EPOXY LINED DIP FLANGED BEND
29. 6 " CLASS 53 DIP EPOXY LINED PIPE, PLAIN END BY FLANGE END (AS NEEDED)
30. 6 " x 90° EPOXY LINED MJ BEND. (RESTRAINED JOINT AND THRUST BLOCK AS REQUIRED) (2 REQUIRED)

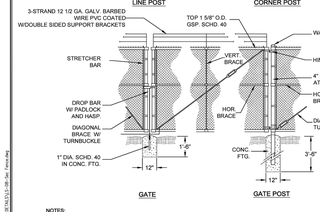
DATE: 07-01-2016	PIPING PLAN & SECTION LEGEND ONE LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-06
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-06-07-Piping Legend.dwg

PIPING PLAN & SECTION LEGEND (CONTINUED):

31. 6 " x 4 " MJ REDUCER (IF NEEDED)
32. N/A " MJ GATE VALVE
33. N/A " CLASS 53 DUCTILE IRON PIPE (DIP) EPOXY LINED SOLID SLEEVE - RESTRAINED JOINT
34. N/A " 316 STAINLESS STEEL INSERT
35. N/A " HDPE DIPS SDR-11 FUSED 90° ELBOW W/ PLAIN ENDS
36. N/A SDR 35 PVC 90° ELBOW
37. 8" MINIMUM POURED IN PLACE CONCRETE SLAB EVEN WITH WET WELL TOP AND TO HAVE A BROOM FINISH
38. PRECAST CONCRETE WET WELL TOP, WITH BROOM FINISH
39. WET WELL LINING
40. PRECAST CONCRETE WET WELL AND BASE
41. PROVIDE 12 INCHES OF COMPACTED CRUSHED STONE OR PEA GRAVEL LEVELING COURSE. COMPACT TO STABILIZE. WET WELL SHALL BE PLACED ON UNDISTURBED SUB-BASE OR 100% COMPACTED CLEAN FILL
42. #5 REBAR AT 12" ON CENTER EACH WAY
43. 1-5/8"x 1-5/8" SLOTTED 12 GAUGE CHANNEL STRUT, TO BE PLACED 6" FROM BOTTOM OF PIPE AND 6" BELOW 90° ELBOW
44. TONGUE AND GROOVE JOINT WITH SEAL
45. WRAP
46. ELASTOMERIC GASKET BOOT
47. "LINK SEAL" MODEL S-316 FOR DIPS / CAST OR CORE BIT DRILLED HOLE, TYPE WALL SLEEVE PIPE SUPPORTS W/ SS BOLTS (2)
48. ACCESS COVER INSTALLED PER MFG. ACTUAL HATCH SIZE TO ACCOMMODATE PUMPS (MIN. 36"x48")
49. STATION VENT - AIR RELEASE VALVE (ARV)
50. STAINLESS STEEL SUPPORT CRADLE (SEE STANDARD LIFT STATION PIPE SUPPORT DETAIL) (4 REQUIRED)
51. 6 " DIPS SDR 11 HDPE FUSED WITH 90° ELBOW W/ PLAIN ENDS
52. 6 " HDPE FUSION COUPLER (IF NEEDED)
53. 6 " 316 STAINLESS STEEL INSERT
54. 6 " x 90° EPOXY LINED MJ BEND. (RESTRAINED JOINT AND THRUST BLOCK AS REQUIRED) (2 REQUIRED)
55. 6 " CLASS 53 DIP EPOXY LINED PIPE, PLAIN END BY FLANGE END (AS NEEDED)
56. 6 " x 90° EPOXY LINED DI FLANGED BEND (2 REQUIRED)
57. - - "x - - " DIP COMPANION FLANGE
58. - - " COUPLER
59. ALL GASKETS SHALL BE 1/8" THICK SBR AS MANUFACTURED BY: U.S. PIPE "FLANGE - TYPE" OR AMERICAN CAST IRON PIPE "TORUSEAL"
60. 1-5/8"x 1-5/8" SLOTTED 12 GAUGE CHANNEL STRUT TO BE PLACED AT 8' INTERVALS ON PIPE LONGER THAN 10 FEET (SEE STANDARD LIFT STATION DETAIL 'A'). IF LESS THAN 10 FEET, PLACE AT MIDPOINT OF PIPE
61. SCADA ANTENNA, TOWER AND FOOTING BY OTHERS

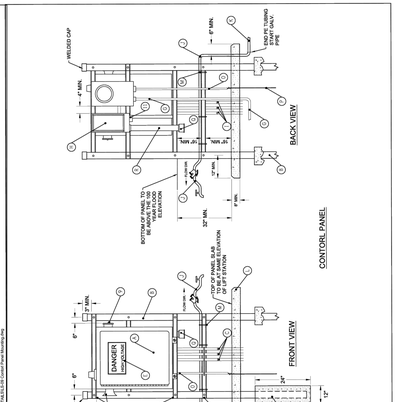
DATE: 07-01-2016	PIPING PLAN & SECTION LEGEND TWO LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-07
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-06-07-Piping Legend.dwg



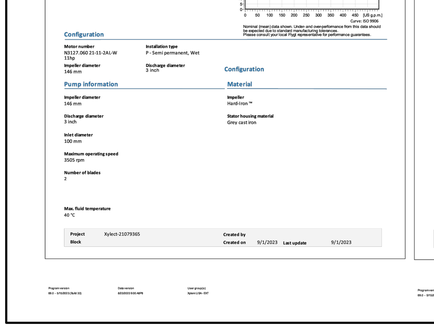


NOTES:
1. DOUBLE GATE TO BE 16'-0" CLEAR OPENING OR AS SPECIFIED.
2. PVC COATED GALVANIZED STEEL WOVEN WIRE FABRIC TO BE STRETCHED TAUT W/STRETCHER BARS AND STRAPS AND FASTENED TOP & BOTTOM AND AT POSTS WITH GALV. PVC COATED PIG RING TIES. AS TO COMPLY WITH ASTM-392, CLASS II.
3. EACH GATE TO BE SECURED OPEN WITH A GATE STOP SET IN CONCRETE.
4. ALL HARDWARE, PIPE AND ACCESSORIES TO COMPLY TO ASTM 1-120,123,153 AND TO BE PVC COATED AND MATCH IN COLOR.
5. COLOR OF FENCING, POSTS, HARDWARE AND BARBED WIRE SHALL BE PVC COATED BLACK. UNLESS APPROVED BY CCU.

DATE: 07-01-2016	SECURITY FENCE LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		LS-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: LS-08-Sec Fence.dwg



DATE: 7/01/2016	CONTROL PANEL MOUNTING LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-09
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-09 Control Panel Mounting.dwg



CONTROL PANEL NAMEPLATE SPECIFICATIONS

ITEM NO.	LABEL INSCRIPTION	QUANTITY	BACKGROUND COLOR
MP1	ECB	1	RED
MP2	MCB	1	BLACK
MP3	SR1	1	BLACK
MP4	MBC	1	BLACK
MP5			
MP6	CPB	1	BLACK
MP7	SR2	1	BLACK
MP8	BPCB	1	BLACK
MP9	FUMPR	1	BLACK
MP10	FUMPC	1	BLACK
MP11	OCCB	1	BLACK
MP12	ASB	1	RED
MP13	TLS	1	BLUE
MP14	STM-RY	1	BLUE
MP15	HOA1T	1	BLUE
MP16	HOA2T	1	BLUE
MP17	No. 1 PUN	1	GREEN
MP18	No. 2 PUN	1	GREEN
MP19	STM-1	1	BLUE
MP20	HOR	1	BLUE
MP21			

LABELS SHALL BE LAMINATED PLASTIC WITH WHITE CAP WITH ENGRAVED LETTERS. BACKGROUND COLOR OF LABELS SHALL BE AS INDICATED ABOVE. LABELS SHALL BE ATTACHED WITH PERMANENT ADHESIVE.

INTERIOR CONTROL PANEL

BACK OF ENCLOSURE DOOR

DEADFRONT DOOR

DATE: 07-01-2016	CONTROL PANEL LAYOUT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-10
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-10-Control Panel Layout.dwg

CONTROL PANEL LEGEND

ITEM NO.	ABBREV.	PART	QUANTITY	DESCRIPTION
1	ECB	EMERGENCY CIRCUIT BREAKER	1	SQ-D FAL_____ 3-POLE ____A
2	MCB	MAIN CIRCUIT BREAKER	1	SQ-D FAL_____ 3-POLE ____A
3	BPCB	BYPASS CONTROL CIRCUIT BREAKER	1	SQ-D FAL_____ 1-POLE 15 AMP
4	DPB	DUPLEX RECEPTICAL BREAKER W/GFI	1	SQ-D FAL_____ 1-POLE 15 AMP
5	CCB	CONTROL CIRCUIT BREAKER	1	SQ-D FAL_____ 1-POLE 15 AMP
6	MS 1	MOTOR STARTER	1	SQ-D 8536 _____ (SIZE _____)
7	MS 2	MOTOR STARTER	1	SQ-D 8536 _____ (SIZE _____)
8	FL	ALARM FLASHER RELAY	1	SSAC FS-126
9	GR	GENERATOR RECEPTACLE	1	PYLE NATIONAL JRE 4100
10		TCU	1	_____ DATA FLOW SYSTEMS TELEMETRY UNIT
11	LA	LIGHTNING ARRESTER	1	SQ-D #SP3650 650 V, 3PH
12				
13		NOT USED		
14	ETM 1	ELAPSED TIME METER	1	ETMAC 200-10N07 ROUND MOUNT
15	ETM 2	ELAPSED TIME METER	1	ETMAC 200-10N07 ROUND MOUNT
16	SS	SURGE SUPPRESSOR	1	EDCO HSP - 121 RTRM
17	CPT	CONTROL POWER TRANSFORMER		
18		NOT USED		
19	OL	OVERLOAD HEATER (IN PANEL)		SQ-D _____
20	SF 1	SEAL FAIL RELAY	1	DEVERSIFIED SYM - 120 - AAB - 100K
21	SF 2	SEAL FAIL RELAY	1	DEVERSIFIED SYM - 120 - AAB - 100K
22	OCCB	DOOR CONTROL CIRCUIT BREAKER	1	SQ- D FAL_____ 3 POLE _____ A (IF REQUIRED)
23	ASB	ALARM SILENCE BUTTON	1	SIEMENS-ALLIS 30BG3-PTB10 OR SQ-D 9001PH13
24	MB 1	MOTOR BREAKER PUMP #1	1	SQ-D FAL_____ 3-POLE ____A
25	MB 2	MOTOR BREAKER PUMP #2	1	SQ-D FAL_____ 3-POLE ____A
26	SR 1	STARTER RELAY	1	DAYTON 8 - PIN, 120 VAC 50/60 HZ #5ZA5 W/SOCKET 3 5X852
27	BPR	BYPASS CONTROL RELAY	3	OMRON 14 PIN MY4AC110/205
28	SR 2	STARTER RELAY	1	DAYTON 8 - PIN, 120 VAC 50/60 HZ #5ZA5 W/SOCKET 3 5X852
29	HOA 1	HAND-OFF-AUTO SWITCH	1	SQUARE"D" SWITCH CSSD01K3A3B CONTACT BLOCK-CT901K-1 LEDGEN 9001KN2GS5P
30	MCB	MAINTENANCE / ENTRY SWITCH	1	SPST SWITCH
31	FR	FLOAT REGULATOR		ROTO-FLOAT TYPE S, LIQUID LEVEL SENSOR
32	TLS	TROUBLE LIGHT SWITCH INT. & EXT.	1	SQ-D SK3F43BH2 & KA1
33	TL	TROUBLE LIGHT	1	LEVITON 9880 (40 WATT BULB)
34	HOA 2	HAND-OFF-AUTO SWITCH	1	SQUARE"D" SWITCH CSSD01K3A3B CONTACT BLOCK-CT901K-1 LEDGEN 9001KN2GS5P
35	AL	ALARM LIGHT	1	INGRAM LRX-40 or OHIO ELECTRIC RL-3K
36	AH 1	ALARM HORN	1	ALA-475-N5, EDWARDS 12DV
37	AH 2	ALARM HORN	1	ALA-475-N5, EDWARDS 12V
38	TB 3	TERMINAL BLOCK #3	1	SQ-D 38364 4 PT
39	TBS	TERMINAL BLOCK #5	1	SQ-D 38364 12 PT
40	GFDR	GROUND FAULT DUPLEX RECEPTACLE	1	15A-ARROW HART OR LEVITON
41	PB	POWER BLOCK	1	BLSS80AAN # 1802-3
42	TB 4	TERMINAL BLOCK #4	1	SQ-D 38364 6 PT
43	TB 2	TERMINAL BLOCK #2 (PTU)	1	SUPPLIED BY OFS
44	TB 1	TERMINAL BLOCK #1	1	SQ-D 38364 33 PT
45	BATT	BATTERY	1	
46		DOOR BAR WIND RESTRAINT	1	
47	NB	NEUTRAL BLOCK	1	GB-1 WEIDMULLER
48	BUAC	BATTERY BACK-UP MODULE	1	
49	MC	MOUNTING CHANNEL	4	SQ-D 9080GH112
50	XFMA	TRANSFORMER	1	MICRON, 3150LFT-K

DATE: 07-01-2016	CONTROL PANEL LEGEND LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-11
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-11-Control Panel Legend.dwg

CONTROL PANEL MOUNTING NOTES

A. THE CONTROL PLANEL ENCLOSURE SHALL HAVE A PAD LOCKABLE HASP AND A THREE PO INT LATCH SYSTEM AND WIND RESTRAINER ARM THAT INCLUDES HARDWARE TO RESTRA IN THE DEAD FRONT DOOR WHEN OPENED. THE HASP AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.

B. TWO (2) 4 INCH DIAMETER SCHEDULE 80 ALUMINUM PIPES WITH 4 INCH WELDED ALUMINUM CAPS SHALL BE ANCHORED IN CONCRETE FROM 3 INCHES BELOW THE BOTTOM OF THE P IPE TO 12 INCHES BELOW THE FINISHED GRADE.

C. THREE (3) "EYE" EXPLOSION PROOF CLASS 1 SEAL-OFF 2 INCH DIAMETER SEAL WITH NON-HARDENING CONDUIT SEALANT AS APPROVED BY THE MANUFACTURER FOR A TEMPORARY SEAL.

D. THE ALUMINUM PIPES SHALL INCLUDE TYPE 316 STAINLESS STEEL H-1 7/8 INCH CHANNEL STRUT C/W TYPE 316 STAINLESS STEEL DISSIMILAR METALS SHALL BE ISOLATED WITH RUBBER GASKETS.

E. PLASTIC WARNING LABEL STATING "DANGER HIGH VOLTAGE" SHALL BE INSTALLED ON THE OUTSIDE OF THE ENCLOSURE DOOR AND BE SECURED TO THE DOOR WITH ADHESIVE OR CEMENT.

F. TWO (2) INCH CONDUIT AND WIRING BETWEEN THE FPL METER CAN AND THE SAFETY DISCONNECT PANEL AND THE CONTROL PANEL.

G. UNDERGROUND SCH 80 CONDUIT AND WIRING BETWEEN THE FPL METER CAN AND THE FPL HAND HOLE.

H. FUSED SAFETY DISCONNECT IN A NEMA 4X ENCLOSURE WITH A LOCKING PLATE. INSTALL AN EXTERNAL LIGHTING ARRESTOR. POWER FROM THE CONTROL PANEL SHALL EXIT THE ENCLOSURE FROM THE UNDERSIDE.

I. THREE (3) 2" CONDUIT AND WIRING BETWEEN THE MCC AND THE WETWELL. FROM THE TOP OF THE SWEEP TO THE MCC SHALL BE PVC SCH 80 ELECTRICAL GRADE AND FROM THE TOP OF THE SWEEP TO THE INSIDE OF THE WETWELL SHALL BE SCHEDULE 80 PVC.

J. ½" GALVANIZED STEEL PIPE WITH TWO (2) 90 DEGREE BENDS TO THE BACKFLOW PREVENTION DEVICE AND THE HOSE BIB.

K. ½" POLYETHYLENE PIPING FROM THE WATER METER AND THE WATER SERVICE.

L. CONCRETE SLAB.

M. WORM DRIVE CLAMPS. (3 MINIMUM)

N. ONE (1) NUMBER 6 WIRE GROUND IN ½" SCHEDULE 80 PVC.

O. GROUND ROD.

P. THREADED RIGID TYPE 316 STAINLESS STEEL CONDUIT SIZED AS REQUIRED BY FULL LOAD AMPERAGE.

Q. CAST ALUMINUM TYPE LB FITTING WITH ALUMINUM CAP.

R. HEAVY DUTY MECHANICAL INTERLOCK FOR EMERGENCY POWER TRANSFER.

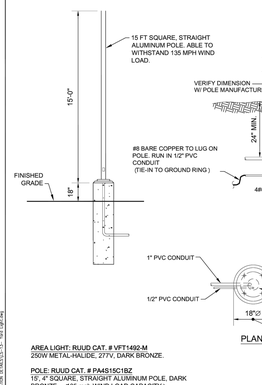
S. PANDUIT TO BE FILLED TO ONLY 50% CAPACITY.

T. IF REQUIRED, ONE (1) INCH PVC AND TYPE 316 STAINLESS STEEL CONDUIT BETWEEN THE CONTROL PANEL AND THE TCU CONTROL PANEL ENCLOSURE. THE AREA LIGHT, THE STAND-BY GENERATOR, AND/OR THE DOOR CONTROL IN ACCORDANCE WITH THE ENGINEERING DRAWINGS.

U. ALL INTERNAL MCC WIRING SHALL BE STRANDED WIRE AND PERMANENTLY NUMBERED.

V. PLASTIC LIFT STATION LABEL AND POCKET FOR CLIP BOARD, PROVIDED AND INSTALLED BY THE CONTRACTOR ON THE BACK OF THE CONTROL PANEL ENCLOSURE DOOR USING AN ADHESIVE OR CEMENT.

DATE: 07/01/2016	CONTROL PANEL MOUNTING NOTES LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-12
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-12-Control Panel Notes.dwg

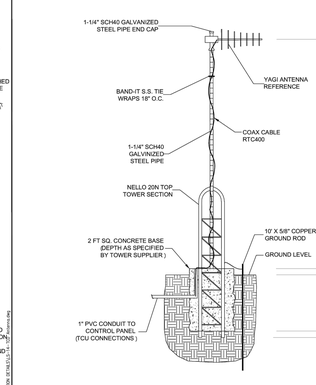


AREA LIGHT: RUUD CAT. # VFT1492-M
250W METAL-HALIDE 277V, DARK BRONZE.

POLE: RUUD CAT. # PA4S15C18Z
15', 4" SQUARE, STRAIGHT ALUMINUM POLE, DARK BRONZE. (135 mph WIND LOAD CAPACITY)

NOTE: YARD LIGHT DETAIL (FOR SERVICE ONLY)

DATE: 07-01-2016	YARD LIGHT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-13
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-13- Yard Light.dwg



NOTE:
1. SEE ENGINEERING PLANS FOR LOCATION OF TCU.

DATE: 07-01-2016	TCU ANTENNA LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-14
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-14-TCU Antenna.dwg

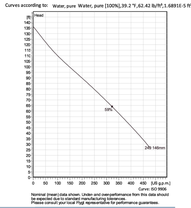
NP 3127 SH 3~ Adaptive 249

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.

FLYGT a xylem brand

Technical specification





Configuration

Motor number N3127.060 23-13-2A1-W 137hp	Installation type P - Semi permanent, Wet
Impeller diameter 146 mm	Discharge diameter 3 Inch

Pump information

Impeller diameter 146 mm	Impeller Hard-Iron ™
Discharge diameter 3 inch	Stator housing material Grey cast iron
Inlet diameter 100 mm	
Maximum operating speed 3505 rpm	
Number of blades 2	
Max. fluid temperature 40 °C	

Configuration

Material

Project	Xylect-21079365	Created by	
Block		Created on	9/1/2023 Last update 9/1/2023

Program version: 99.0 - 9/14/2023 (Build 53) | Data version: 6/20/2023 6:00 AM PB | User group(s): Xylect Lite - EXT

NP 3127 SH 3~ Adaptive 249

Technical specification

FLYGT a xylem brand

Motor - General

Motor number N3127.060 23-13-2A1-W 137hp	Phases 3~	Rated speed 3505 rpm	Rated power 11 hp
ATEX approved No	Number of poles 2	Rated current 20 A	Stator variant 29
Frequency 60 Hz	Rated voltage 230 V	Insulation class H	Type of Duty S1
Version code 060			

Motor - Technical

Power factor - 1/1 Load 0.90	Motor efficiency - 1/1 Load 88.1 %	Total moment of inertia 0.434 lb·ft²	Starts per hour max. 30
Power factor - 3/4 Load 0.87	Motor efficiency - 3/4 Load 88.5 %	Starting current, direct starting 248 A	
Power factor - 1/2 Load 0.79	Motor efficiency - 1/2 Load 87.3 %	Starting current, star-delta 82.7 A	

Project	Xylect-21079365	Created by	
Block		Created on	9/1/2023 Last update 9/1/2023

Program version: 99.0 - 9/14/2023 (Build 53) | Data version: 6/20/2023 6:00 AM PB | User group(s): Xylect Lite - EXT

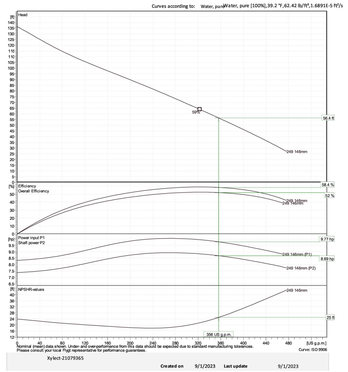
NP 3127 SH 3~ Adaptive 249

Performance curve

FLYGT a xylem brand

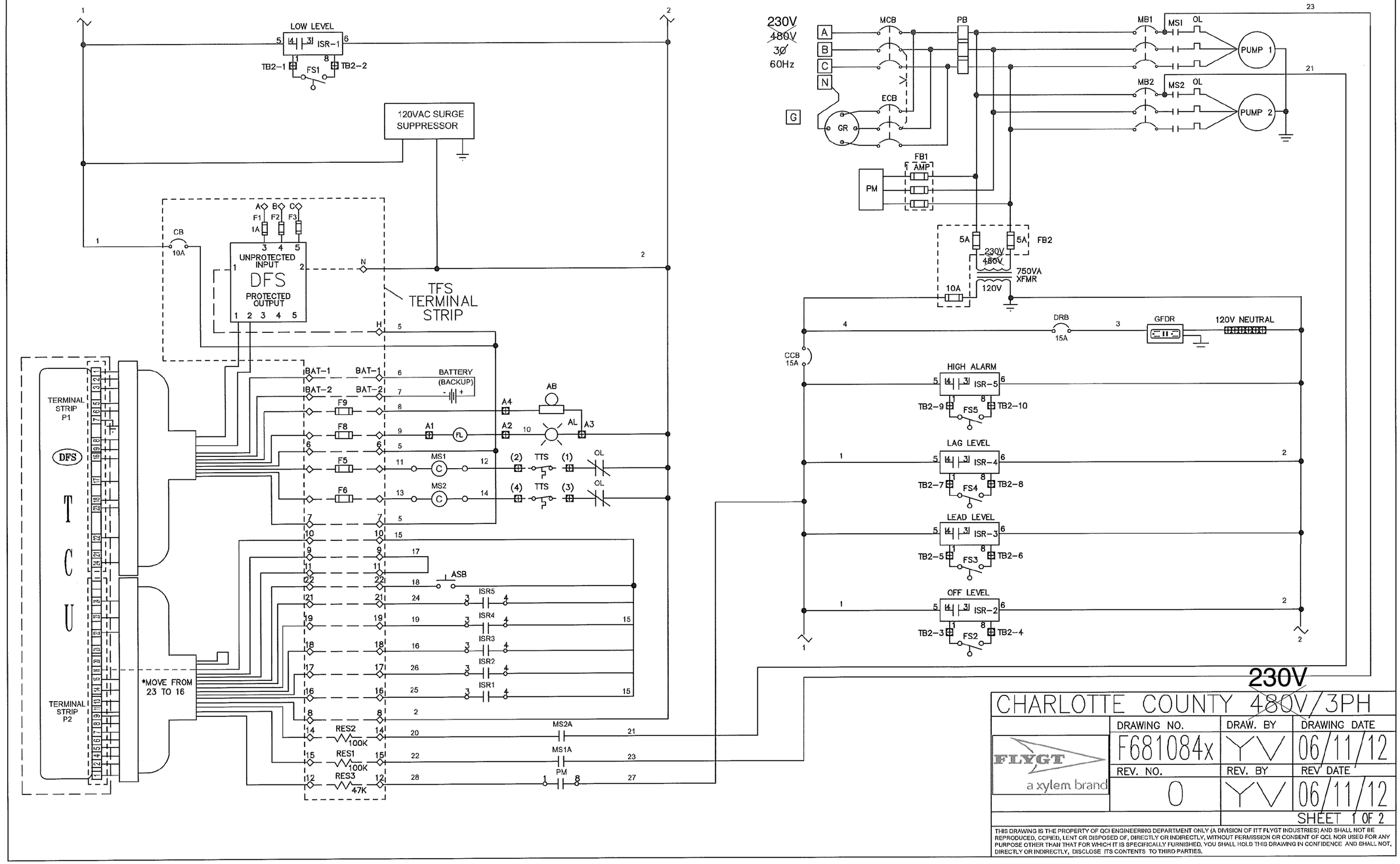
Duty point

Flow 354 US g.p.m.	Head 56.4 ft



Xylect-21079365

		Created



230V

CHARLOTTE COUNTY 480V/3PH

DRAWING NO.	DRAW. BY	DRAWING DATE
F681084x	YV	06/11/12
REV. NO.	REV. BY	REV DATE
0	YV	06/11/12

FLYGT a xylem brand

SHEET 1 OF 2

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CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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

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ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

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RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 5

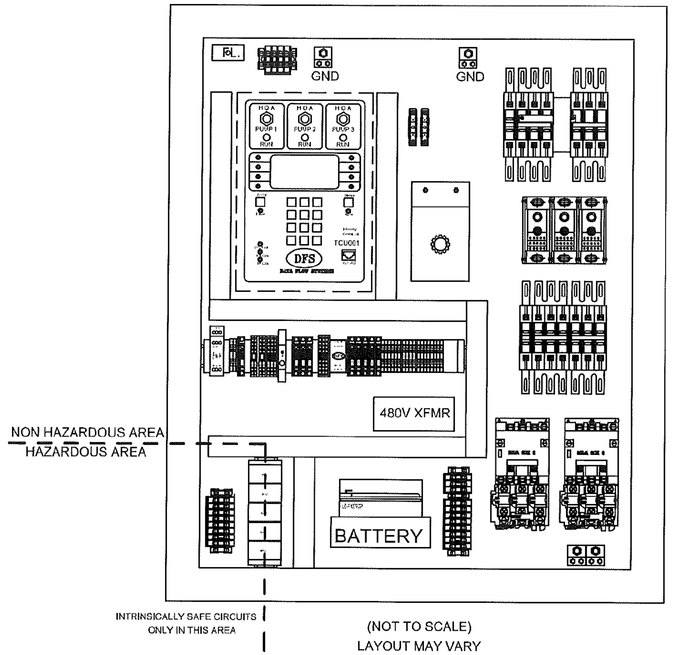
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

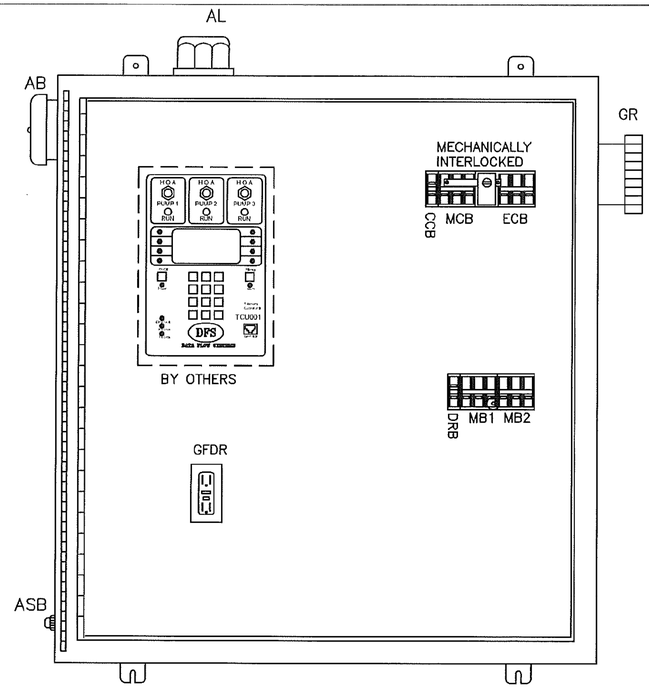
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	28

S:\JOBS\4500\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/13/2023 8:15 AM TODD VANA

4585S - DAVID BOULEVARD APARTMENTS



(NOT TO SCALE)
LAYOUT MAY VARY



OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT
NEMA TYPE 3R S.S. ENCLOSURE WITH CONT. HINGE
ALL HARDWARE TYPE 304 S.S.
TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER

LEGEND

AL _ ALARM LIGHT
CCB _ CONTROL CIRCUIT BREAKER
DRB _ DUPLEX RECEPTACLE BREAKER
F _ FUSE
FB _ FUSE BLOCK
FL _ FLASHER
FR _ FLOAT REGULATOR
GFDR _ GROUND FAULT DUPLEX RECEPTACLE
GR _ GENERATOR RECEPTACLE
MB _ MOTOR BREAKER
MCB _ MAIN CIRCUIT BREAKER/SERVICE DISCONNECT
MS _ MOTOR STARTER
OL _ OVERLOAD
PCU _ PUMP CONTROL UNIT
SA _ SURGE ARRESTOR
TB _ TERMINAL BLOCK
TL _ TROUBLE LIGHT (FLUORESCENT)
TTS _ THERMAL TERMINAL STRIP

230V
CHARLOTTE COUNTY ~~480V~~/3PH

	DRAWING NO.	DRAW. BY	DRAWING DATE
FLYGT a xylem brand	F681084x	YV	06/11/12
	REV. NO.	REV. BY	REV DATE
	0	YV	06/11/12
		SHEET 2 OF 2	

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PREPARED FOR:
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(813) 443-0809

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NO.	DATE	REVISION DESCRIPTION	BY

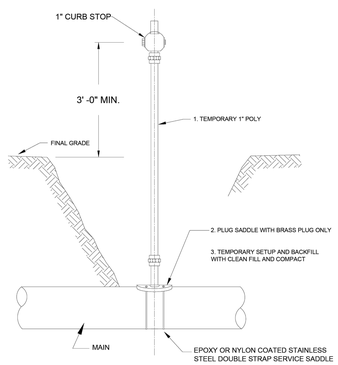
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UTILITY DETAILS - 6
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	29

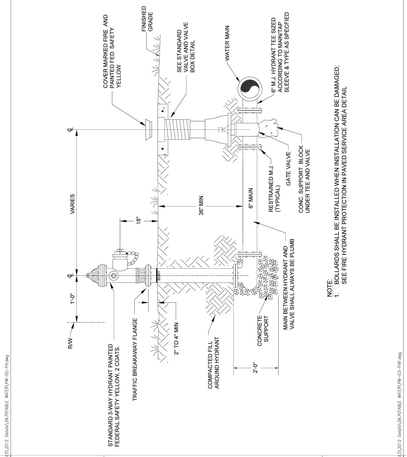
4585S - DAVID BOULEVARD APARTMENTS

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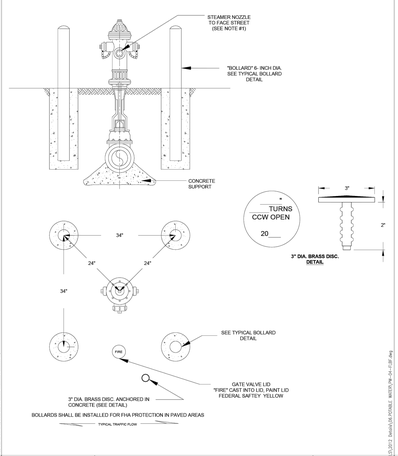


NOTE:
1: REMOVE RISER PIPE AND INSTALL BRASS PLUG AFTER FDEP CERTIFICATIONS.
2: USE TEFLON TAPE IN LIEU OF PIPE DOPE ON THREADED FITTINGS.

DATE: 11/01/2011	SAMPLE POINT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-01
APPROVED BY: BRB		ID: PW-01-BACT.dwg

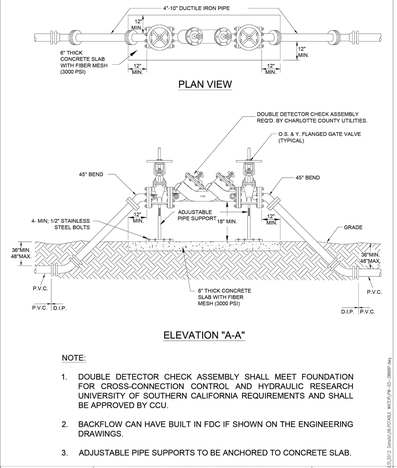


DATE: 11/01/2011	FIRE HYDRANT WITH TYPICAL GATE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-02
APPROVED BY: BRB		ID: PW-02-FH.dwg



NOTE:
1. BOLLARDS SHALL BE INSTALLED WHEN INSTALLATION CAN BE DAMAGED. SEE FIRE HYDRANT PROTECTION IN PAVED SERVICE AREA DETAIL

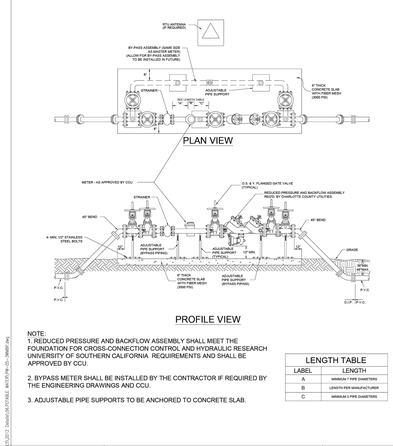
DATE: 11/01/2011	FIRE HYDRANT PROTECTION IN PAVED SERVICE AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-03
APPROVED BY: BRB		ID: PW-03-FHP.dwg



NOTE:

1. DOUBLE DETECTOR CHECK ASSEMBLY SHALL MEET FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.
2. BACKFLOW CAN HAVE BUILT IN FDC IF SHOWN ON THE ENGINEERING DRAWINGS.
3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

DATE: 11/01/2011	4"-10" BACKFLOW PREVENTION ASSEMBLY FOR FIRE LINE SYSTEMS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-04
APPROVED BY: BRB		ID: PW-04-FLBF.dwg



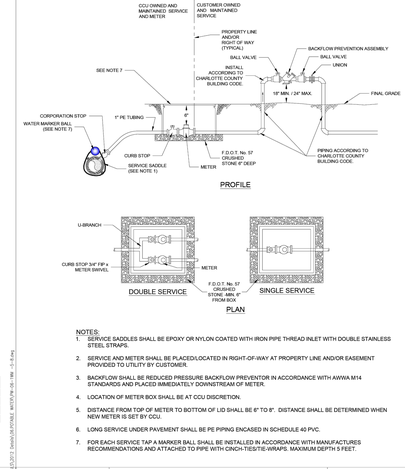
NOTE:
1. REDUCED PRESSURE AND BACKFLOW ASSEMBLY SHALL MEET THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.

2. BYPASS METER SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY THE ENGINEERING DRAWINGS AND CCU.

3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

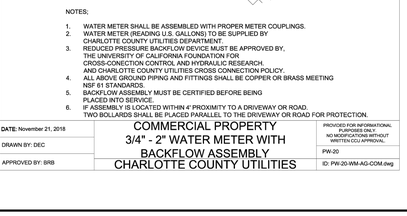
LENGTH TABLE	
LABEL	LENGTH
A	MINIMUM 7 PIPE DIAMETERS
B	LENGTH PER MANUFACTURER
C	MINIMUM 5 PIPE DIAMETERS

DATE: 11/01/2011	3" & ABOVE WATER METERS WITH PROVISION FOR BY-PASS ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-05
APPROVED BY: BRB		ID: PW-05-3WMBP.dwg



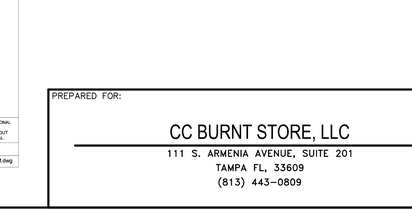
NOTES:
1. SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
2. SERVICE AND METER SHALL BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
3. BACKFLOW SHALL BE REDUCED PRESSURE OR DUAL CHECK BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
4. LOCATION OF METER BOX SHALL BE AT CCU DISCRETION.
5. DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 8". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
6. LONG SERVICE UNDER PAVEMENT SHALL BE PIPING ENCASED IN SCHEDULE 40 PVC.
7. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	5/8" - 1" WATER METER WITH BACKFLOW PREVENTER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-06
APPROVED BY: BRB		ID: PW-06-1WM -5-8.dwg



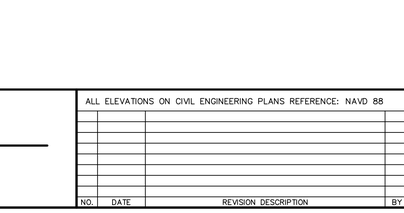
NOTES:
1. SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
2. SERVICE AND METER TO BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
3. BACKFLOW SHALL BE REDUCED PRESSURE OR DUAL CHECK BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
4. LONG SERVICE UNDER PAVEMENT SHALL BE PE PIPING INCASED IN SCHEDULE 40 PVC.
5. DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 8". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
6. LOCATION OF METER BOX SHALL BE IN ACCORDANCE WITH CCU.
7. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	1 1/2" - 2" WATER METER WITH BACKFLOW PREVENTER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-07
APPROVED BY: BRB		ID: PW-07-2WM.dwg



NOTE:
1. BACKFLOW SHALL BE DUAL CHECK BACKFLOW PREVENTOR AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
2. SIZE OF SERVICE MAIN DEPENDS ON LENGTH FOR NON - STANDARD HOUSE LOCATIONS
3. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	TYPICAL 5/8" - 1" WATER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-08
APPROVED BY: BRB		ID: PW-08-TWS.dwg

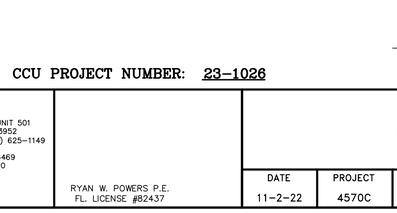


NOTES:
1. SIZE OF MAIN WILL BE DETERMINED BY ESTIMATED FLOW
2. A SINGLE ROW METER BANK IS TO BE INSTALLED WITH A METER AT THE PROPERTY LINE AND/OR RIGHT-OF-WAY. IF A DOUBLE ROW OF METERS IS USED, AN EASEMENT FOR THE SECOND ROW IS REQUIRED.
3. SEPARATE TAP CAN BE ELIMINATED AND REPLACED WITH 90° BEND BASED ON FLOWS AND NUMBER OF METERS
4. 4" PVC SHOWN AS TYPICAL PIPING DIAMETER. PIPING TO BE SIZED BASED ON THE NUMBER OF METERS AND REQUIRED FLOWS.
5. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	METER BANK DETAIL FOR 5/8" - 1" COMMERCIAL WATER METERS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-10
APPROVED BY: BRB		ID: PW-10-WMB.dwg

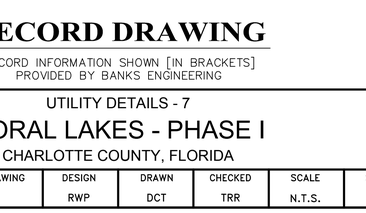


DATE: 11/01/2011	AUTOMATIC FLUSHING ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-11
APPROVED BY: BRB		ID: PW-11-AFA.dwg



PIPE SIZE	"A"	"B"	"C"
4"	12"	18"	6"
6"	18"	22"	6"
8"	24"	29"	9"
10"	30"	35"	9"
12"	36"	41"	9"
16"	48"	53"	12"
18"	48"	67"	12"

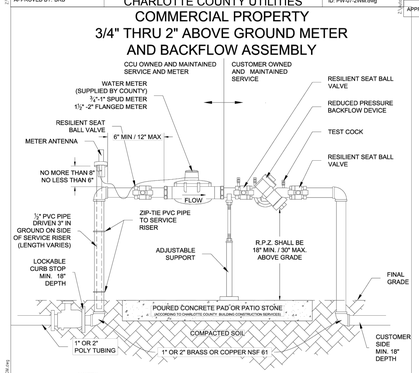
DATE: 11/01/2011	PERMANENT END OF MAIN BLOW-OFF ASSEMBLY (WATER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-13
APPROVED BY: BRB		ID: PW-13-PBO.dwg



ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (BLUE IN COLOR)
2	1	AIR RELEASE VALVE OR COMBINATION AIR VALVE
3	1	1" CURB STOP - BRASS
4	1	2"x 4" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90° ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" X LARGER PIPE, D.I., PVC (DR-18), HDPE
14	1	2" GATE VALVE
15	2	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	2" CORP STOP - BRASS

NOTE:
ITEM # 21 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

DATE: 11/01/2011	POTABLE WATER AUTOMATIC AIR RELEASE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-14
APPROVED BY: BRB		ID: PW-14-ARV-_.dwg



NOTES;

1. WATER METER SHALL BE ASSEMBLED WITH PROPER METER COUPLINGS.
2. WATER METER (READING U.S. GALLONS) TO BE SUPPLIED BY CHARLOTTE COUNTY UTILITIES DEPARTMENT.
3. REDUCED PRESSURE BACKFLOW DEVICE MUST BE APPROVED BY, THE UNIVERSITY OF CALIFORNIA FOUNDATION FOR CROSS-CONECTION CONTROL AND HYDRAULIC RESEARCH. AND CHARLOTTE COUNTY UTILITIES CROSS CONNECTION POLICY.
4. ALL ABOVE GROUND PIPING AND FITTINGS SHALL BE COPPER OR BRASS MEETING NSF 61 STANDARDS.
5. BACKFLOW ASSEMBLY MUST BE CERTIFIED BEFORE BEING PLACED INTO SERVICE.
6. IF ASSEMBLY IS LOCATED WITHIN 4' PROXIMITY TO A DRIVEWAY OR ROAD, TWO BOLLARDS SHALL BE PLACED PARALLEL TO THE DRIVEWAY OR ROAD FOR PROTECTION.

DATE: November 21, 2018	COMMERCIAL PROPERTY 3/4" - 2" WATER METER WITH BACKFLOW ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-20
APPROVED BY: BRB		ID: PW-20-WM-AG-COM.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 7

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	30

S:\JOBS\4500's\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/15/2025 8:15 AM TODD VANA

4585S - DAVID BOULEVARD APARTMENTS

MECHANICAL / ELECTRICAL EQUIPMENT SCHEDULE

NOTES:

1. ALL AUXILIARY EQUIPMENT AND POWER SUPPLIES SHALL BE SUPPLIED BY THE CONTRACTOR TO MAKE ALL OF THE FOLLOWING FULLY FUNCTIONAL AS INTENDED.
2. ALL BOLTS AND NUTS TO BE STAINLESS STEEL.
3. START-UP SHALL INCLUDE EQUIPMENT FACTORY REPRESENTATIVES TO REVIEW INSTALLATION, MAKE ADJUSTMENTS AND PERFORM START-UP AND INSTRUCT OWNER'S PERSONNEL IN THE OPERATIONS AND MAINTENANCE OF THE EQUIPMENT.
4. ALL EQUIPMENT THAT IS EXPOSED TO THE WEATHER SHALL BE IN NEMA 4X HOUSING.
5. ALL EXPOSED PIPE, FITTINGS, VALVES, AND NON-GALVANIZED FERROUS METALS TO BE PAINTED WITH TWO COATS OF PAINT. SEE SPECIFICATIONS FOR SURFACE PREPARATION, PAINTING AND COATINGS.
6. ALL PIPING INCLUDING HOT SENSOR (HL) SHALL BE DUCTILE IRON.
7. THE LOCATION OF THE RCWM METER PAD TO BE DETERMINED BY OWNER.
8. RECLAIMED WATER METER PAD IS PART OF THE DELIVERY FACILITIES. (SEE FOND DELIVERY FACILITY DETAIL.)
9. FOR DIRECT FEED DELETE STILLWELL AND HIGH LEVEL FLOAT SWITCH ASSEMBLY AND ASSOCIATED WIRING TO CONTROL PANEL.
10. MINIMUM LENGTH OF THE PIPE PER MANUFACTURER'S RECOMMENDATIONS.
11. MINIMUM LENGTH OF THE PIPE PER MANUFACTURER'S RECOMMENDATIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING INSTALLATION TESTING, CALIBRATING, AND OTHERWISE MAKING OPERATIONAL ALL DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL FINAL DRAWINGS AND SOFTWARE, PROGRAMMING SOFTWARE, AND SPECIAL CABLES SHALL BE FURNISHED TO CHARLOTTE COUNTY UTILITIES.

ARV DETAIL

PLAN

PROFILE

NOTE: RADIO FREQUENCY TO BE DETERMINED BY SITE LOCATION

= OMIT OR DIRECT FEED

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

RECLAIMED WATER METER PAD
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-01
ID: RW-01-RWMP.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

RTU ANTENNA DETAIL (RECLAIMED WATER)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-03
ID: RW-03-RTUA.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL PANEL DETAIL (RECLAIMED WATER)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-04
ID: RW-04-CP.dwg

ELECTRICAL CONDUIT NOTES

1. ALL CONDUIT FITTINGS WILL BE WATER TIGHT AND SEALED WITH SILICONE ON THREADED JOINTS.
2. THE CONDUIT RUN TO FUTURE USE IS TO BE SEALED WITH EXPANDABLE FOAM.
3. ALL ELECTRICAL CONDUIT TO BE BURIED 24" BELOW FINISHED GROUND LEVEL.
4. ALL CONDUIT TO BE SCHEDULE 40 PVC BELOW GROUND AND RGS ABOVE GROUND.

NOTE: THE SIGN(S) WILL BE PROVIDED AND INSTALLED BY CHARLOTTE COUNTY UTILITIES

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

RECLAIMED WATER SIGN
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-05
ID: RW-05-RWS.dwg

MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (PURPLE IN COLOR)
2	1	AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE
3	1	1" CURB STOP - BRASS
4	2	2" x 4" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90° ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80 - LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" X LARGER PIPE, CL. PVC (DR 18), HDPE
14	1	2" GATE VALVE
15	2	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	2" PIPE, PVC, LENGTH AS SHOWN, PERFORATED TOP HALF ONLY
22	1	2" TEE, PVC
23	1	2" CAP, PVC
24	1	3" X 90° ELBOW, PVC
25	1	2" COMP STOP - BRASS

ITEM # 25 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: TGO

RECLAIMED WATER AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-06
ID: RW-06-ARV-OS.dwg

DATE: 11/01/2011
DRAWN BY: DEC
APPROVED BY: BRB

RTU CONTROL PANEL (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-07
ID: RW-07-CP-PF.dwg

BILL OF MATERIAL

ITEM	QTY.	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	HOFFMAN		ENCLOSURE, TYPE 4X, 316 SS, 38"H X 30"W x 12"D, W/SLSNSHELD
1	1	HOFFMAN		SUBPANEL
1	1	HOFFMAN		PADLOCK KIT
2	1	EATON or eq	ELC-PC12NNAR	PROCESSOR w/RS232 & RS485 MODBUS-RTU
3	1	EATON or eq	ELC-AN04NNN	4 ANALOG INPUT
4	1	EATON or eq	ELC-AN04NNAN	4 ANALOG OUTPUT
5	1	EATON or eq	ELC-EX08NNAN	8 DIGITAL INPUT A/C 120V
6	1	EATON or eq	ELC-EX08NNNR	8 RELAY OUTPUT
7	1	EATON or eq	GP-04	GRAPHICAL DISPLAY w/FUNCTION BUTTONS RS-485
8	1	EATON or eq	ELC-PS02	24VCG POWER SUPPLY 2 AMPS
9	8	IMO	ERF3LD24DC	REMOVABLE FUSE HOLDER, 5x20mm
10	2	CHINT	NB1-B6-1P	CIRCUIT BREAKER, B CURVE, 6A
11	1	SQUARE D	9080GSB150	CIRCUIT BREAKER, 1 POLE, 250 VAC. 15 AMP
12	1	CHINT	NB1-B2-1P	CIRCUIT BREAKER, B CURVE, 2A
13	2	CHINT	NB1-B1-1P	CIRCUIT BREAKER, B CURVE, 1A
14	A/R	PANDUIT	TYPE F	WIRE DUCT, WHITE, NON-SLIP COVER (REFER TO DIMENSIONS ON LAYOUT)
15	1	EDCO	HSP121BT-1RU	SURGE SUPPRESSOR, 120 VAC
16	4	EDCO	PC64ZC-03BX	SURGE SUPPRESSOR, ANALOG SIGNAL
17	4	EDCO	PC-B1B	SURGE SUPPRESSOR, BASE
18	79	WEIDMULLER	1020100000	PASS THROUGH TERMINAL BLOCK, BOX LUGS, 30 AMPS, WDU 4
19	A/R	WEIDMULLER	1050000000	TERMINAL BLOCK ENDPLATE FOR WDU 4 TERMINALS
20	A/R	WEIDMULLER	0361000000	TERMINAL BLOCK END BRACKET TYPE EW 35
21	A/R	SQUARE D		DIN RAIL, 35mm, ZINC PLATED PERFORATED
22	1	SQUARE D	PK9GTA	GROUND BAR KIT (9) TERMINALS
23	4	SQUARE D	8501RS42V20	2 POLE, DOUBLE THROW, 120V DC CONTROL RELAY CR111, CR102, CR103, CR104
24	4	OMRON	PTF08ALE	CONTROL RELAY BASE, DIN RAIL MOUNTED
25	1	ARRO HART	GROUND FAULT RECEPTACLE	GFI DUPLEX RECEPTACLE, 125 VAC. 15 AMP
26	1	RED DOT	D1H51UM	SINGLE GANG BOX
27	1	HUBBLE	S-26	COVER PLATE, GFCI OUTLET, STAINLESS STEEL
28	1	APC		UPS, 750 VA, 120 VAC INPUT
29	1	ALLIED ENCLOSURE	AM6641	6x6x4, NEMA 4x, HINGED SCREW COVER, FIBERGLASS
30	1	POWER FIRST	1FD92	14 GAUGE, 3 CONDUCTOR, 15 AMP, 120 V, TYPE SJT, PVC JACKET, NEMA PLUG 5-15P
31	8	BUSSMANN	S500-32-R	32ma FAST ACTING 5x20mm

1) ITEM #29 & #31 FITS IN ENCLOSURE BOTTOM.

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: TGO

BILL OF MATERIAL (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-08
ID: RW-08-CP-BOM.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL SCHEMATIC #1 (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-09
ID: RW-09-SCH-1-PF.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL SCHEMATIC #2 (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

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RW-10
ID: RW-10-SCH-2-PF.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL SCHEMATIC #3 (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

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RW-11
ID: RW-11-SCH-3-PF.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL SCHEMATIC #4 (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

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RW-12
ID: RW-12-SCH-4-PF.dwg

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

CONTROL SCHEMATIC #5 (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-13
ID: RW-13-SCH-5-PF.dwg

RE-USE WATER DELIVERY STATION CONTROLS NOTES:

THE RE-USE WATER DELIVERY STATION IS DESIGNED TO AUTOMATICALLY SUPPLY RE-USED WATER. THE SYSTEM OPERATES AS FOLLOWS:

1. **THE RE-USE WATER SYSTEM IS ALWAYS MAINTAINED BY ONE OR MORE OF THE FOLLOWING METHODS: (CHARLOTTE COUNTY UTILITIES DOES NOT GUARANTEE PRESSURE OR FLOW RATE.)**
2. **RE-USE WATER FLOWS AT A RATE GOVERNED BY AN AUTOMATIC ACTUATOR THE FLOW RATE DEPENDS ON THE SETPOINT LOCAL DISPLAY OR THROUGH THE SCADA RTU**

THE PROCESS IS MONITORED IN REAL TIME THROUGH DATAFLOW SYSTEMS' RTU. THE RTU IS USED TO MONITOR/CONTROL THE DELIVERY STATION OPERATIONS. THE REAL TIME CLOCK IN THE SCADA SYSTEM CONNECTS TO A SCADA SYSTEM AT THE EASTPORT OR WESTPORT WWR.

THE SCADA SYSTEM ALLOWS THE SYSTEM OPERATORS TO VIEW IN REAL TIME THE FOLLOWING PARAMETERS:

SYSTEM DELIVERY PRESSURE.
THE RE-USE WATER FLOW RATE.
THE RE-USE WATER USAGE.
AND ANY ALARM CONDITIONS.

THE OPERATORS CAN SET THE DESIRED FLOW USING THE SCADA SYSTEM OR THE LOCAL DISPLAY. THE PID'S VALVE WILL MODULATE TO MAINTAIN CORRECT FLOW (+/- 100PM). THE VALVE WILL NOT HUNT.

AN UNINTERRUPTIBLE POWER SUPPLY (UPS) IS SUPPLIED TO PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION AND TO ALLOW THE SYSTEM TO OPERATE FOR A BRIEF PERIOD OF TIME IF NORMAL AC POWER IS LOST.
THE PLC WILL AUTOMATICALLY CLOSE THE ISOLATION VALVE UPON LOSS OF LOCAL AC POWER AND AN ALARM WILL BE SENT TO THE SCADA RTU.
THE CONTROLS ARE HOUSED IN A LOCKED STAINLESS STEEL ENCLOSURE (NEMA 4X).

NOTES ON 120 V AC FEED TO RE-USE WATER DELIVERY STATION:

1. OBTAIN 120 V AC, 20 AMP CIRCUIT FROM NEARBY 120 V AC SOURCE. DO NOT PROVIDE NEW SERVICE UNLESS NO OTHER SOURCE OF POWER IS AVAILABLE. SEE PROJECT CIVIL PLANS FOR LOCATION OF POWER SOURCE. PROVIDE DIRECT BURIAL TYPE UF FEEDER TO RE-USE WATER DELIVERY STATION PER DIRECTIONS ON THIS SHEET. IN MOST CASES, POWER WILL BE OBTAINED FROM LOCAL PUMP HOUSE.
   - IF NECESSARY, PROVIDE A NEW SERVICE WITH METER AND SMALL 2HD 120 V AC DISTRIBUTION PANEL WITH 20 AMP MAIN BREAKER AND TWO 20 AMP BREAKERS (ONE SPARE) WITH 100 AMP MAIN BREAKER AND 20 AMP FEEDER BREAKER TO THE RTU AND CONTROLS.
2. COORDINATE WITH CHARLOTTE COUNTY UTILITIES AND LOCAL ELECTRIC UTILITY AS NECESSARY. THE LOCATION AND PHYSICAL ARRANGEMENT OF NEW SERVICE IF ANY, WELL BEFORE ON BEST PHYSICAL ARRANGEMENT AND 2) TO BE DETERMINED IN THE FIELD ON A CASE BY CASE BASIS.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (N.E.C.) LATEST EDITION. CONTRACTOR TO OBTAIN ALL PERMITS AND ARRANGE FOR ALL INSPECTIONS WITH AUTHORITIES HAVING JURISDICTION.
2. CONDUITS, RACEWAYS AND CABLES SHALL BE PROPERLY AND SECURELY ATTACHED TO STRUCTURAL COMPONENTS AS REQUIRED BY THE N.E.C. THE CONTRACTOR SHALL VERIFY THE EXACT ROUTING IN THE FIELD. LOCATION AND ALL CONDITIONS ENCOUNTERED. CONDUIT ENDS MUST BE SEALED WITH FOAM OR EQUAL, IN A MANNER THAT IS EASILY REMOVED FOR FUTURE NEEDS.
3. EACH OUTLET OR JUNCTION IN ANY OF THE WIRING SYSTEMS SHALL BE MADE IN AN APPROVED MANNER SUITABLE FOR THE PURPOSE. THE SIZE AND NUMBER OF CONDUCTORS AND DEVICES TO BE INSTALLED, AS WELL AS ANY ADVERSE CONDITIONS ENCOUNTERED. ALL SPLICES SHALL BE MADE WITH APPROVED, MECHANICAL CONNECTORS.
4. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION ABOUT EQUIPMENT WHICH IS BEING FURNISHED FOR COORDINATION PURPOSES. THE CONTRACTOR SHALL PROVIDE ALL INSTALLATION DETAILS AND SUPPORT COMPONENTS, SO THAT THESE MAY BE BUILT INTO THE CONSTRUCTION IN A TIMELY MANNER.
5. ALL RACEWAYS SHALL BE PROVIDED WITH CONTINUOUS EQUIPMENT GROUNDING CONDUCTORS. ALL EQUIPMENT SHALL BE GROUNDED AS REQUIRED BY THE N.E.C. ELECTRICAL RACEWAYS ARE SHALL BE IN ACCORDANCE WITH N.E.C. ARTICLE 250.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLATION TESTING, CALIBRATING, AND OTHERWISE MAKING OPERATIONAL ALL DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL FINAL DRAWINGS AND SOFTWARE, PROGRAMMING SOFTWARE, AND SPECIAL CABLES SHALL BE FURNISHED TO CHARLOTTE COUNTY UTILITIES.
7. IT IS THE INTENT OF DRAWINGS AND SPECIFICATION TO OBTAIN A COMPLETE AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO OPERATE AND DEFINE THE WORK OF THE CONTRACTOR ON DRAWINGS AND DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE PROJECT AND THE WORK OF OTHER TRADES WILL PERMIT. THE DRAWINGS AND DIAGRAMS ARE NOT DIAGRAMATIC DIAGRAMS TO INDICATE VARIOUS ITEMS OF WORK. THEREFORE, NO INTERPRETATION WILL BE MADE FROM THE LIMITATION OF SYMBOLS AND DIAGRAMS AS TO THE EXACT LOCATION OF EQUIPMENT, CONDUIT, WIRING, ETC. AS INCLUDED. THE ENGINEER SHOULD BE NOTIFIED OF DISCREPANCIES, DIMENSIONS, CONFLICTS OR INTERFERENCES WHICH MAY OCCUR BETWEEN VARIOUS DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS NOT RECEIVED, THE INSTALLING CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THEIR INTERPRETATIONS.
8. ALL CONDUITS TO BE SCHEDULE 80 PVC, EXCEPT WHERE EXPOSED TO HAZARDOUS CONDITIONS IN WHICH CASE IT SHALL BE RIGID GALVANIZED STEEL.
9. FUSE 1-120 MA LOOP POWERED CIRCUIT WITH 0.032 AMP FUSES.
10. GROUND INSTRUMENT CABLE SHIELDS AT ONE END ONLY.
11. BURY DIRECT BURIAL FEEDER TYPE UF 24" BELOW GRADE. PROVIDE PLASTIC WARNING TAPE 12" ABOVE FEEDER IN TRENCH.

DATE: 11/01/2011
DRAWN BY: DJS
APPROVED BY: BRB

DELIVERY STATION NOTES (RECLAIMED WATER-POND FED)
CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
RW-14
ID: RW-14-DSN-PF.dwg

CCU PROJECT NUMBER: 23-1026

RECORD DRAWING
RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 8

CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	31

S:\JOBS\4500's\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/15/2025 8:15 AM TODD VANA

WATERMAIN RECORD POINT TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
283	913203.728	649989.629	8.44	WM,12,PVC,2024
284	913208.385	649974.348	8.97	11.25B,12,DI,2024
285	913206.800	649891.345	8.31	11.25B,12,DI,2024
286	913189.015	649794.092	7.40	WM,12,PVC,2024
287	913183.794	649766.573	6.94	11.25B,12,DI,2024
288	913184.033	649754.005	6.85	11.25B,12,DI,2024
289	913188.090	649734.761	6.77	11.25B,12,DI,2024
290	913202.960	649698.156	6.69	22.5B,12,DI,2024
291	913272.476	649626.512	6.05	WM,12,PVC,2024
292	913342.375	649556.140	5.08	WM,12,PVC,2024
293	913382.737	649506.135	4.72	11.25B,12,DI,2024
294	913387.202	649496.929	5.21	TEE,12X6,DI,2024
295	913395.137	649478.525	0.00	WM,12,PVC,2024
296	913411.639	649400.729	6.08	11.25B,12,DI,2024
297	913411.071	649374.678	7.22	TEE,12X8S12,DI,2024
474	913406.990	649274.270	3.85	GV,12,DI,2024
475	913407.304	649310.404	2.47	45B,12,DI,2024
476	913408.374	649315.245	5.72	45B,12,DI,2024
477	913413.115	649375.290	7.35	GV,8,DI,2024
478	913417.714	649375.320	5.87	CAP,8,DI,2024
480	913388.718	649497.153	6.30	GV,6,DI,2024
487	912415.508	650172.332	10.60	GV,8,DI,2024
488	912407.481	650172.769	9.21	CAP,8,DI,2024
490	912518.221	650166.312	9.46	TEE,8X6X8,DI,2024
491	912517.818	650167.127	10.58	GV,6,DI,2024
492	912518.039	650173.750	15.58	HYD,6,DI,2024
493	912589.695	650161.324	7.95	WM,8,PVC,2024
496	912407.301	650172.232	13.62	BO,2,DI,2024
501	912887.393	650119.806	7.69	WM,8,PVC,2024
503	912980.823	650089.205	8.19	WM,8,PVC,2024
504	913081.415	650078.063	8.11	WM,8,PVC,2024
514	913170.134	650091.978	10.19	GV,8,DI,2024
515	913179.697	650086.129	10.88	GV,12,DI,2024
516	913185.708	650095.672	10.19	GV,8,DI,2024
517	913177.532	650093.593	9.06	CROSS,12X8X12,DI,2024
518	913159.814	650184.995	7.66	WM,12,PVC,2024
519	913154.945	650204.173	6.59	WM,12,PVC,2024
522	913274.375	650124.252	8.63	WM,8,PVC,2024
524	913298.369	650133.558	8.42	TEE,8X6X8,DI,2024
525	913298.547	650152.773	9.60	GV,6,DI,2024
526	913296.461	650139.453	14.47	HYD,6,DI,2024
527	913401.560	650181.342	6.88	WM,8,PVC,2024
528	913478.880	650246.497	7.08	WM,8,PVC,2024
529	913548.470	650316.370	6.89	WM,8,PVC,2024
530	913616.030	650388.900	6.54	WM,8,PVC,2024
531	913688.290	650458.390	7.13	WM,8,PVC,2024
532	913729.929	650500.762	13.79	HYD,6,DI,2024
534	913733.477	650496.522	8.55	GV,6,DI,2024
536	913735.458	650495.322	7.51	TEE,8X6X8,DI,2024
546	912689.630	650156.241	0.00	WM,8,PVC,2024
547	912789.428	650143.968	7.81	WM,8,PVC,2024
548	912837.689	650134.186	7.74	TEE,8X8X8,DI,2024
549	912835.234	650135.152	9.03	GV,8,DI,2024
550	912839.862	650144.057	9.09	GV,8,DI,2024
1013	913137.137	650280.474	7.84	WM,12,PVC,2024
1018	913100.600	650493.910	7.41	WM,12,PVC,2024
1025	913102.717	650677.882	11.43	TEE,12X6,DI,2024
1026	913103.826	650677.552	9.71	GV,6,DI,2024
1027	913107.142	650677.465	15.24	HYD,6,DI,2024
1028	913102.840	650713.025	8.72	WM,12,PVC,2024
1030	913102.721	650810.814	8.03	WM,12,PVC,2024
1032	913101.007	650843.417	8.00	TEE,12X8X12,DI,2024
1033	913100.302	650852.471	9.44	GV,12,DI,2024
1034	913108.442	650843.415	9.18	GV,8,DI,2024
1035	913099.431	650880.841	8.06	11.25B,12,DI,2024
1036	913086.096	650933.015	9.01	WM,12,PVC,2024
1041	913060.405	651026.252	9.72	WM,12,PVC,2024
1045	913005.250	651176.181	9.34	WM,12,PVC,2024
1046	913008.928	651165.231	10.30	TEE,12X8X12,DI,2024
1047	913008.014	651170.118	11.98	GV,12,DI,2024
1048	913015.484	651167.099	11.68	GV,8,DI,2024
1050	912605.635	651810.548	12.82	WM,8,PVC,2024
1051	912604.512	651909.356	12.53	WM,8,PVC,2024
1052	912605.449	652010.077	13.41	WM,8,PVC,2024
1053	912604.592	652050.525	13.54	45B,8,DI,2024
1054	912597.670	652072.043	13.95	45B,8,DI,2024
1055	912582.208	652079.022	13.64	TEE,8X8X8,DI,2024
1056	912559.795	652090.309	13.64	45B,8,DI,2024
1057	912518.826	652074.345	13.79	45B,8,DI,2024
1058	912500.945	652056.252	13.82	HYD,6,DI,2024
1059	912587.171	652087.809	14.88	GV,8,DI,2024
1060	912588.472	652076.440	14.53	GV,8,DI,2024
1061	912605.833	651690.207	12.82	WM,8,PVC,2024
1062	912605.145	651590.126	12.35	WM,8,PVC,2024
1063	912607.231	651511.611	12.32	WM,8,PVC,2024
1064	912609.773	651412.359	12.32	WM,8,PVC,2024
1065	912631.956	651310.774	12.69	GV,6,DI,2024
1066	912638.025	651311.704	18.00	HYD,6,DI,2024
1067	912629.850	651314.208	11.83	WM,8,PVC,2024
1068	912630.160	651310.299	11.96	TEE,8X6X8,DI,2024
1069	912662.480	651221.137	11.85	WM,8,PVC,2024
1070	912698.686	651128.990	10.71	WM,8,PVC,2024
1071	912730.117	651035.321	10.77	WM,8,PVC,2024
1072	912766.974	650940.670	9.98	WM,8,PVC,2024
1073	912791.045	650846.030	9.49	WM,8,PVC,2024
1074	912798.710	650746.565	9.01	WM,8,PVC,2024
1075	912799.638	650646.406	9.27	WM,8,PVC,2024
1076	912798.522	650547.781	8.70	WM,8,PVC,2024
1077	912797.844	650543.897	8.65	TEE,8X6X8,DI,2024
1078	912799.851	650543.165	9.60	GV,6,DI,2024
1079	912805.730	650543.219	14.64	HYD,6,DI,2024
1080	912804.031	650449.596	7.95	WM,8,PVC,2024
1081	912815.620	650350.758	7.76	WM,8,PVC,2024
1082	912832.465	650251.930	7.83	WM,8,PVC,2024
1083	912848.250	650187.197	8.32	22.5B,8,DI,2024
1084	913920.695	650570.238	6.45	WM,8,PVC,2024
1085	913822.023	650540.985	6.38	WM,8,PVC,2024
1086	912506.078	652053.202	14.51	GV,6,DI,2024
2058	912619.162	650160.264	7.78	WM,8,PVC,2024
2060	912719.293	650152.773	9.30	WM,8,PVC,2024
2064	912941.471	650102.864	8.03	WM,8,PVC,2024
2066	913042.304	650076.090	7.95	WM,8,PVC,2024
2068	913136.430	650085.357	8.16	WM,8,PVC,2024
2073	912633.866	652166.720	13.66	WM,8,PVC,2024
2074	912665.212	652215.169	14.13	11.25B,8,DI,2024
2075	912670.428	652220.576	14.32	45B,8,DI,2024
2076	912696.836	652219.146	13.84	WM,8,PVC,2024
3000	914814.865	650522.403	8.99	TEE,8X6X8,DI,2025
3001	914372.669	650522.615	8.30	TEE,8X6X8,DI,2025
3002	913670.653	650443.081	7.01	CPSTP,8X2X8,DI,2025
3003	912508.018	652052.239	13.81	90B,8,DI,2024
3004	912908.861	652219.080	17.10	BO,12,DI,2024
3005	914188.530	651067.350	14.80	HYD,6,DI,2025
3006	914292.613	650818.500	12.32	SGL-WTM,3/4",DI,2025
3007	914807.439	650522.496	8.96	SDL,8X1,DI,2025
3008	914731.209	650523.417	8.62	SDL,8X1,DI,2025
3009	914651.559	650522.048	7.47	SDL,8X1,DI,2025
3010	914571.828	650522.499	7.53	SDL,8X1,DI,2025
3011	914479.004	650522.733	7.89	SDL,8X1,DI,2025
3012	914455.345	650522.707	7.98	SDL,8X1,DI,2025
3013	914376.559	650522.620	8.28	SDL,8X1,DI,2025
3014	914356.546	650522.598	8.28	SDL,8X1,DI,2025
3015	914265.647	650530.855	8.03	SDL,8X1,DI,2025
3016	914163.279	650559.136	7.67	SDL,8X1,DI,2025
3017	914109.503	650569.614	7.92	SDL,8X1,DI,2025
3018	914029.681	650577.654	6.75	SDL,8X1,DI,2025
3019	914023.768	650578.116	7.12	SDL,8X1,DI,2025
3020	914003.915	650578.964	8.38	SDL,8X1,DI,2025
3021	914000.709	650578.999	8.58	SDL,8X1,DI,2025
3022	913911.426	650568.777	7.21	SDL,8X1,DI,2025
3023	913862.870	650555.973	10.45	SDL,8X1,DI,2025
3024	913821.393	650540.729	6.42	SDL,8X1,DI,2025
3025	913738.046	650497.026	7.60	SDL,8X1,DI,2025
3026	913737.842	650496.893	7.59	SDL,8X1,DI,2025
3027	913664.094	650437.212	7.20	SDL,8X1,DI,2025
3028	913597.992	650369.530	6.63	SDL,8X1,DI,2025
3029	913583.229	650353.683	6.71	SDL,8X1,DI,2025
3030	913517.004	650284.771	6.98	SDL,8X1,DI,2025
3031	913426.806	650196.740	6.92	SDL,8X1,DI,2025
3032	912995.458	650085.125	8.13	SDL,8X1,DI,2025

WATERMAIN RECORD POINT TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
3033	912898.045	650116.323	7.76	SDL,8X1.0,DI,2025
3034	912762.917	650148.398	8.38	SDL,8X1.0,DI,2025
3035	912664.177	650157.694	8.43	SDL,8X1.0,DI,2025
3036	912675.313	650157.058	8.59	SDL,8X1,DI,2025
3037	912553.807	650163.829	8.71	SDL,8X1.0,DI,2025
3038	912521.552	650166.080	9.39	SDL,8X1,DI,2025
3039	912456.581	650170.268	9.44	SDL,8X1,DI,2025
3040	912455.374	650170.328	9.45	SDL,8X1.0,DI,2025
3041	912848.039	650188.064	8.31	SDL,8X1,DI,2025
3042	912847.325	650211.313	8.14	SDL,8X1,DI,2025
3043	912830.264	650262.546	7.82	SDL,8X1,DI,2025
3044	912825.810	650285.569	7.81	SDL,8X1.0,DI,2025
3045	912815.729	650344.387	7.76	SDL,8X1,DI,2025
3046	912813.537	650362.534	7.79	SDL,8X1.0,DI,2025
3048	912804.839	650438.928	7.93	SDL,8X1.0,DI,2025
3049	912797.980	650537.000	8.60	SDL,8X1,DI,2025
3050	912797.957	650538.020	8.61	SDL,8X1,DI,2025
3051	912799.281	650616.213	9.09	SDL,8X1,DI,2025
3052	912799.331	650620.770	9.11	SDL,8X1.0,DI,2025
3053	912799.178	650697.060	9.14	SDL,8X1,DI,2025
3054	912799.150	650700.018	9.13	SDL,8X1.0,DI,2025
3055	912797.796	650778.679	9.16	SDL,8X1,DI,2025
3056	912797.758	650779.641	9.16	SDL,8X1.0,DI,2025
3057	912789.632	650854.358	9.53	SDL,8X1,DI,2025
3058	912781.018	650894.236	9.73	SDL,8X1,DI,2025
3059	912771.447	650927.394	9.91	SDL,8X1.0,DI,2025
3060	912749.874	650984.328	10.34	SDL,8X1,DI,2025
3061	912744.637	650998.033	10.46	SDL,8X1.0,DI,2025
3062	912724.461	651052.178	10.76	SDL,8X1,DI,2025
3063	912718.569	651068.135	10.75	SDL,8X1.0,DI,2025
3064	912717.842	651071.904	10.75	SDL,8X1,DI,2025
3065	912692.866	651143.802	10.89	SDL,8X1.0,DI,2025
3066	912692.364	651145.079	10.91	SDL,8X1,DI,2025
3067	912663.605	651218.273	11.81	SDL,8X1.0,DI,2025
3068	912662.600	651220.831	11.85	SDL,8X1.0,DI,2025
3069	912632.239	651305.101	11.95	SDL,8X1,DI,2025
3070	912617.289	651291.026	11.94	SDL,8X1.0,DI,2025
3071	912619.670	651360.932	12.04	SDL,8X1.0,DI,2025
3072	912612.340	651398.756	12.20	SDL,8X1.0,DI,2025
3073	912608.093	651431.050	12.27	SDL,8X1.0,DI,2025
3074	912607.374	651488.961	12.30	SDL,8X1.0,DI,2025
3075	912607.151	651514.616	12.32	SDL,8X1.0,DI,2025
3076	912606.839	651552.865	12.32	SDL,8X1.0,DI,2025
3077	912605.187	651588.559	12.35	SDL,8X1.0,DI,2025
3078	912605.222	651601.299	12.40	SDL,8X1,DI,2025
3079	912605.686	651668.828	12.72	SDL,8X1.0,DI,2025
3080	912605.715	651681.889	12.78	SDL,8X1.0,DI,2025
3081	912605.737	651748.737	12.82	SDL,8X1.0,DI,2025
3082	912605.715	651761.844	12.82	SDL,8X1.0,DI,2025
3083	912605.427	651828.884	12.77	SDL,8X1.0,DI,2025
3084	912605.273	651842.377	12.73	SDL,8X1,DI,2025
3085	912604.513	651909.504	12.53	SDL,8X1.0,DI,2025
3086	912604.029	651921.237	12.63	SDL,8X1.0,DI,2025
3087	912605.257	651989.464	13.23	SDL,8X1.0,DI,2025
3088	912602.222	652057.891	13.68	SDL,8X1.0,DI,2025
3089	912554.802	652088.363	13.68	SDL,8X1.0,DI,2025
3090	912512.772	652067.553	13.80	SDL,8X1.0,DI,2025
3091	913157.994	650192.162	7.26	SDL,8X1,DI,2025
3092	913145.391	650245.109	7.26	SDL,12X1,DI,2025
3093	913130.183	650308.631	7.78	SDL,12X1,DI,2025
3094	913122.127	650346.043	7.71	SDL,12X1,DI,2025
3095	913112.878	650397.739	7.60	SDL,8X1,DI,2025
3096	913104.208	650457.481	7.48	SDL,12X1,DI,2025
3097	913100.910	650490.638	7.42	SDL,12X1,DI,2025
3098	913101.872	650507.402	7.54	SDL,12X1,DI,2025
3099	913102.371	650581.987	8.20	SDL,12X1,DI,2025
3100	913102.423	650600.644	8.40	SDL,12X1,DI,2025
3101	913102.553	650681.847	9.00	SDL,12X1,DI,2025
3102	913102.755	650703.973	8.80	SDL,12X1,DI,2025
3103	913102.918	650781.843	8.24	SDL,12X1,DI,2025
3104	913102.713	650811.520	8.03	SDL,12X1,DI,2025
3105	913084.468	650939.183	9.06	SDL,12X1,DI,2025
3106	913048.539	651062.894	9.93	SDL,12X1,DI,2025
3107	913014.685	651151.232	10.29	SDL,12X1,DI,2025
3108	913004.134	651179.612	9.46	SDL,12X1,DI,2025
3109	913001.780	651186.843	9.70	SDL,12X1,DI,2025
3110	912967.407	651271.012	10.71	SDL,12X1,DI,2025
3111	912960.967	651288.353	10.95	SDL,12X1,DI,2025
3112	912932.420	651364.592	11.89	SDL,12X1,DI,2025
3113	912927.688	651379.340	11.97	SDL,12X1,DI,2025
3114	912911.079	651447.448	11.76	SDL,12X1,DI,2025
3115	912905.835	651517.500	11.78	SDL,12X1,DI,2025
3116	912906.002	651547.671	11.80	SDL,12X1,DI,2025
3117	912906.198	651564.652	11.89	SDL,12X1,DI,2025
3118	912906.958	651636.703	12.47	SDL,12X1,DI,2025
3119	912907.064	651658.919	12.60	SDL,12X1,DI,2025
3120	912906.386	651736.072	12.57	SDL,12X1,DI,2025
3121	912906.247	651758.416	12.56	SDL,12X1,DI,2025
3122	912906.374	651836.714	12.68	SDL,12X1,DI,2025
3123	912906.574	651856.146	12.60	SDL,12X1,DI,2025
3124	912906.080	651958.799	12.73	SDL,12X1,DI,2025
3125	912905.588	652064.312	13.71	SDL,12X1,DI,2025
3126	912905.786	652158.790	13.94	SDL,12X1,DI,2025
3127	912928.846	652040.522	12.98	SDL,12X1,DI,2025
3128	912996.144	652038.271	14.34	SDL,8X1.0,DI,2025
3129	913025.805	652037.279	14.94	SDL,8X1.0,DI,2025
3130	913057.188	651185.605	10.01	SDL,8X1.0,DI,2025
3131	913130.201	651221.797	10.16	SDL,8X1.0,DI,2025
3132	913173.006	651243.465	10.11	SDL,8X1.0,DI,2025
3133	913215.165	651257.789	10.15	SDL,8X1.0,DI,2025
3134	913243.994	651279.665	10.77	SDL,8X1.0,DI,2025
3135	913272.082	651294.039	11.17	SDL,8X1.0,DI,2025
3136	913315.211	651314.119	11.06	SDL,8X1.0,DI,2025
3137	913343.611	651330.663	10.74	SDL,8X1,DI,2025
3138	913384.904	651351.643	10.36	SDL,8X1.0,DI,2025
3139	913409.745	651363.593	10.40	SDL,8X1.0,DI,2025
3140	913432.444	651374.513	10.44	SDL,8X1.0,DI,2025
3141	913471.236	651393.304	10.48	SDL,8X1.0,DI,2025
3142	913499.063	651407.133	10.46	SDL,8X1.0,DI,2025
3143	913542.430	651428.685	10.42	SDL,8X1.0,DI,2025
3144	913570.669	651443.030	10.48	SDL,8X1,DI,2025
3145	913614.271	651465.306	10.63	SDL,8X1.0,DI,2025
3146	913641.984	651479.520	10.70	SDL,8X1.0,DI,2025
3147	913685.574	651500.303	10.36	SDL,8X1.0,DI,2025
3148	913714.444	651514.116	10.13	SDL,8X1,DI,2025
3149	913756.298	651536.055	10.12	SDL,8X1.0,DI,2025
3150	913784.767	651551.757	10.23	SDL,8X1,DI,2025
3151	913857.015	651587.488	10.41	SDL,8X1.0,DI,2025
3152	913207.163	650888.091	9.80	SDL,8X1.0,DI,2025
3153	913251.419	650911.254	14.98	SDL,8X1.0,DI,2025
3154	913278.768	650923.950	10.20	SDL,8X1,DI,2025
3155	913322.712	650945.777	15.81	SDL,8X1.0,DI,2025
3156	913350.126	650959.364	12.12	SDL,8X1,DI,2025
3157	913394.634	650981.663	10.00	SDL,8X1.0,DI,2025
3158	913421.679	650995.433	12.48	SDL,8X1.0,DI,2025
3159	913465.865	651017.229	8.65	SDL,8X1.0,DI,2025
3160	913493.105	651031.384	8.47	SDL,8X1.0,DI,2025
3161	913537.765	651053.442	8.18	SDL,8X1.0,DI,2025
3162	913560.382	651064.672	0.00	SDL,8X1.0,DI,2025
3163	913582.533	651075.791	8.41	SDL,8X1.0,DI,2025
3164	913620.039	651094.616	8.83	SDL,8X1.0,DI,2025
3165	913648.897	651109.102	11.83	SDL,8X1.0,DI,2025
3166	913693.255	651131.367	14.55	SDL,8X1.0,DI,2025
3167	913720.298	651144.941	10.96	SDL,8X1,DI,2025
3168	913764.722	651167.487	14.79	SDL,8X1.0,DI,2025
3169	913791.924	651181.356	12.28	SDL,8X1.0,DI,2025
3170	913836.318	651203.710	10.65	SDL,8X1.0,DI,2025
3171	913863.022	651216.804	10.30	SDL,8X1,DI,2025
3172	913906.684	651238.214	9.30	SDL,8X1.0,DI,2025
3173	913934.975	651252.087	9.43	SDL,8X1.0,DI,2025
3174	914006.684	651288.008	9.20	SDL,8X1.0,DI,2025
3175	913836.713	651671.100	10.66	SDL,8X1.0,DI,2025
3176	913860.289	651671.452	10.39	SDL,8X1.0,DI,2025
3177	913875.833	651585.830	10.44	SDL,8X1,DI,2025
3178	913923.783	651491.538	9.83	SDL,8X1.0,DI,2025
3179	913971.769	651394.622	9.46	SDL,8X1.0,DI,2025
3180	914022.750	651298.289	9.20	SDL,8X1.0,DI,2025
3181	914085.214	651204.059	8.59	SDL,8X1.0,DI,2025
3182	914068.830	651227.827	8.68	SDL,8X1.0,DI,2025
3183	914126.611	651149.100	8.55	SDL,8X1.0,DI,2025
3184	914156.276	651113.641	8.60	SDL,8X1.0,DI,2025

WATERMAIN RECORD POINT TABLE

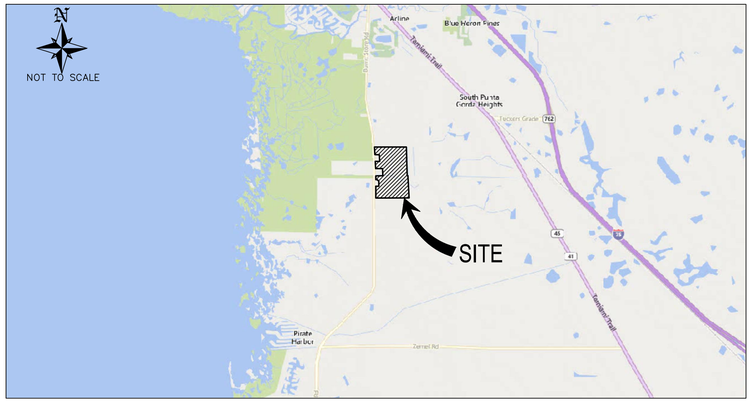
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
3185	914190.731	651075.599	8.63	SDL,8X1,DI,2025
3186	914222.983	651037.545	8.37	SDL,8X1.0,DI,2025
3187	914265.891	650962.414	7.63	SDL,8X1.0,DI,2025
3188	914267.303	650959.364	7.63	SDL,8X1,DI,2025
3189	914292.395	650881.117	7.62	SDL,8X1.0,DI,2025
3190	914299.406	650818.451	7.71	SDL,8X1,DI,2025
3191	914299.174	650798.567	7.72	SDL,8X1,DI,2025
3192	914299.259	650801.036	7.72	SDL,8X1.0,DI,2025
3193	914298.407	650781.939	7.73	SDL,8X1.0,DI,2025
3194	914277.325	650672.530	7.56	SDL,12X1,DI,2025
3195	914277.240	650672.214	7.56	SDL,8X1.0,DI,2025
3196	914246.679	650562.397	8.11	SDL,8X1,DI,2025
3197	914292.447	652060.770	12.96	TEE,8X6X8,DI,2025
3200	913406.974	649272.970	2.82	TS,16X12X16,DI,2024
5758	914029.954	650577.630	6.73	WM,8,PVC,2025
5760	914231.901	650539.905	9.42	GV,8,DI,2025
5761	914241.592	650551.493	8.97	GV,8,DI,2025
5762	914239.843	650537.523	7.90	TEE,8X8X8,DI,2025
5763	914256.171	650593.884	8.12	WM,8,PVC,2025
5764	914281.753	650688.994	7.44	WM,8,PVC,2025
5765	914298.478	650786.144	7.74	WM,8,PVC,2025
5766	914291.508	650885.318	7.61	WM,8,PVC,2025
5767	914275.950	650978.468	7.62	WM,8,PVC,2025
5768	914203.584	651060.933	8.69	WM,8,PVC,2025
5769	914194.296	651071.971	8.63	TEE,8X6X8,DI,2025
5770	914193.186	651071.505	9.78	GV,8,DI,2025
5771	914137.804	651136.591	8.53	WM,8,PVC,2025
5772	914095.967	651187.229	8.49	WM,8,PVC,2025
5773	914077.499	651214.960	8.66	WM,8,PVC,2025
5774	914044.057	651268.857	8.72	WM,8,PVC,2025
5775	914032.447	651280.560	8.91	11.25B,8,DI,2025
5776	914023.967	651296.344	9.23	TEE,8X8X8,DI,2025
5777	914019.686	651303.246	9.12	WM,8,PVC,2025
5778	914018.911	651294.411	10.70	GV,8,DI,2025
5779	914026.825	651289.608	10.59	GV,8,DI,2025
5780	913973.043	651392.039	9.45	WM,8,PVC,2025
5781	913923.596	651480.547	9.71	WM,8,PVC,2025
5782	913894.407	651549.190	10.42	TEE,8X6X8,DI,2025
5783	913893.337	651548.913	11.36	GV,6,DI,2025
5784	913888.094	651546.088	16.37	HYD,6,DI,2025
5785	913864.259	651590.753	11.68	GV,8,DI,2025
5786	913872.685	651592.255	11.89	GV,8,DI,2025
5787	913874.217	651598.596	10.46	WM,8,PVC,2025
5788	913871.484	651594.586	10.53	TEE,8X8X8,DI,2025
5789	913848.535	651641.458	10.25	11.25B,8,DI,2025
5790	913844.141	651656.909	10.27	11.25B,8,DI,2025
5791	913826.457	651692.488	10.55	CAP,8,DI,2025
5792	913826.759	651690.115	11.85	GV,8,DI,2025
5795	912930.202	652081.082	16.45	SGL-WTM,3/4",DI,2025
5796	913027.166	652077.965	16.17	DBL-WTM,3/4",DI,2025
5797	913050.950	652036.400	13.27	GV,8,DI,2024
5798	912995.919	652031.538	15.41	DBL-WTM,3/4",DI,2025
5799	912921.261	652030.898	13.90	GV,6,DI,2024
5801	912921.168	652025.470	18.74	HYD,6,DI,2025
5805	913169.453	651250.084	16.93	DBL-WTM,3/4",DI,2025
5806	913195.917	651255.063	10.08	WM,8,PVC,2025
5807	913245.307	651285.154	16.47	DBL-WTM,3/4",DI,2025
5808	913286.054	651301.189	11.38	WM,8,PVC,2025
5809	913312.164	651322.197	16.27	DBL-WTM,3/4",DI,2025
5810	913379.351	651349.068	10.36	TEE,8X8X8,DI,2025
5811	913379.881	651349.403	11.47	GV,6,DI,2025
5812	913377.667	651353.545	16.41	HYD,6,DI,2025
5813	913382.225	651356.589	16.11	DBL-WTM,3/4",DI,2025
5814	913468.105	651399.552	15.54	DBL-WTM,3/4",DI,2025
5815	913463.095	651389.258	10.49	WM,8,PVC,2025
5816	913539.088	651435.354	15.61	DBL-WTM,3/4",DI,2025
5817	913551.140	651443.510	10.42	WM,8,PVC,2025
5818	913611.152	651471.571	15.73	DBL-WTM,3/4",DI,2025
5819	913639.515	651478.341	10.72	WM,8,PVC,2025
5820	913682.254	651506.569	15.71	DBL-WTM,3/4",DI,2025
5821	913729.912	651521.501	10.00	WM,8,PVC,2025
5822	913762.945	651542.786	15.57	SGL-WTM,3/4",DI,2025
5823	913816.168	651569.077	10.38	WM,8,PVC,2025
5824	913876.212	651549.190	15.61	SGL-WTM,3/4",DI,2025
5825	913803.376	651514.631	15.92	DBL-WTM,3/4",DI,2025
5826	913732.027	651479.037	16.32	DBL-WTM,3/4",DI,2025
5827	913665.822	651442.936	16.47	DBL-WTM,3/4",DI,2

Attachment 6

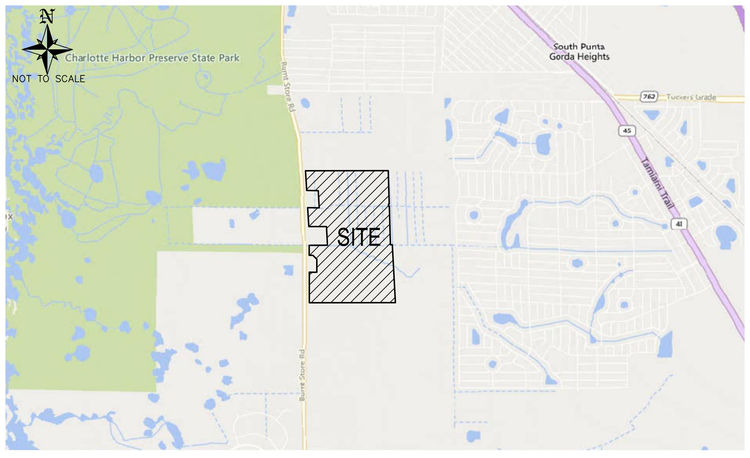
Sanitary Sewer Record Drawings

CORAL LAKES - PHASE I

PHASES 1A AND 1B
SANITARY SEWER RECORD DRAWINGS



GENERAL LOCATION MAP



SPECIFIC LOCATION MAP

SECTION 4 & 9, TOWNSHIP 42 SOUTH, RANGE 23 EAST
CHARLOTTE COUNTY, FLORIDA

SITE INFORMATION

PROJECT AREA:	306.51 AC (TOTAL)
PARCEL STRAP NUMBER:	422304300005 422309200006
PARCEL ADDRESS:	13000 BURNT STORE ROAD PUNTA GORDA, FL. 33955
CURRENT ZONING:	ZONING PD
PROPOSED USE:	RESIDENTIAL MULTI–FAMILY

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

UTILITY SERVICE PROVIDERS

WATER:	CHARLOTTE COUNTY UTILITIES	25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764–4300
SEWER:	CHARLOTTE COUNTY UTILITIES	25550 HARBORVIEW RD. SUITE 1 PORT CHARLOTTE, FL 33980 PHONE: (941) 764–4300
ELECTRIC:	FLORIDA POWER AND LIGHT	2245 MURPHY CT. NORTH PORT, FL 34289 PHONE: (800) 375–8490
PHONE:	CENTURYLINK	4195 KINGS HIGHWAY PORT CHARLOTTE, FL 33980 PHONE: (941) 637–5141
CABLE:	COMCAST	12600 WESTLINKS DRIVE, STE 4 FORT MYERS, FL 33913 PHONE: (239) 318–1525
FIRE PROTECTION:	CHARLOTTE COUNTY FIRE/EMS	26571 AIRPORT RD. PUNTA GORDA, FL 33982 PHONE: (941) 833–5600
SOLID WASTE DISPOSAL:	WASTE MANAGEMENT	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	4161 TAMIAMI TRAIL – BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625–1165
SURVEYOR:	BANKS ENGINEERING RICHARD M. RITZ, RLS	4161 TAMIAMI TRAIL – BLDG 5 UNIT 501 PORT CHARLOTTE, FLORIDA 33952 PHONE: (941) 625–1165
ENVIRONMENTAL:	PASSARELLA & ASSOCIATES INC.	13620 METROPOLIS AVENUE SUITE 200 FORT MYERS, FL 33912 PHONE: (239) 274–0067
ARCHITECT:		
LANDSCAPE ARCHITECT:	JOHN T. SWEN, P.A.	P.O. BOX 494466 PORT CHARLOTTE, FL 33949 PHONE: (941) 626–7365
TRAFFIC ENGINEER:	KIMLEY HORN	201 N. FRANKLIN ST. SUITE 1400 TAMPA, FL. 33602 PHONE: (813) 635–5523

REUSE WATER METER TALLY		
IRRIGATION	# OF METERS	METER SIZE
IRRIGATION	1	2
10.52 acres x 43,560 = 458,251 sf		
458,251/12 = 38,188 CF		
38,188 CF x 7.481 Gallons = 285,684 GPWeek		
285,684 GPW/7 = 40,812 GPD		

CCU PROJECT NUMBER: 23–1026

"CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CHARLOTTE COUNTY UTILITIES (CCU) STANDARDS AND SPECIFICATIONS. PLANS ARE IN ACCORDANCE WITH CCU MINIMUM DRAWING REQUIREMENTS DATED MARCH 1, 2023. STATE PLANE COORDINATES WILL BE SUPPLIED FOR THE RECORD DRAWINGS."

BANKS
ENGINEERING
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

INDEX OF SHEETS

SHEET	TITLE
1	COVER SHEET
2	GENERAL NOTES
3	PROJECT NOTES AND LEGEND
4	AERIAL AND EXISTING CONDITIONS
5	SITE DEVELOPMENT PLAN
11	MASTER UTILITY PLAN
11A	UTILITY PLAN – A
11B	UTILITY PLAN – B
11C	UTILITY PLAN – C
11D	UTILITY PLAN – D
12	KEY SHEET
13	ROAD A – PLAN & PROFILE
13A	ROAD A – PLAN & PROFILE
14	ROAD B – PLAN & PROFILE
14A	ROAD B – PLAN & PROFILE
14B	ROAD B – PLAN & PROFILE
15	ROAD C – PLAN & PROFILE
16	ROAD D – PLAN & PROFILE
17	ROAD E – PLAN & PROFILE
17A	ROAD E – PLAN & PROFILE
18	ROAD F – PLAN & PROFILE
18A	ROAD F – PLAN & PROFILE
18B	ROAD F – PLAN & PROFILE
19	ROAD G – PLAN & PROFILE
20	ROAD H – PLAN & PROFILE
21	ROAD I – PLAN & PROFILE
21A	ROAD I – PLAN & PROFILE
22	NORTH WATER MAIN CONNECTION – PLAN & PROFILE
22A	NORTH WATER MAIN CONNECTION – PLAN & PROFILE
23	LIFT STATION & RE–USE CONNECTION – PLAN & PROFILE
24	UTILITY DETAILS – 1
25	UTILITY DETAILS – 2
26	UTILITY DETAILS – 3
27	UTILITY DETAILS – 4
28	UTILITY DETAILS – 5
29	UTILITY DETAILS – 6
30	UTILITY DETAILS – 7
31	UTILITY DETAILS – 8
32	WATERMAIN RECORD POINT TABLE
33	SANITARY SEWER RECORD POINT TABLE

ERC Tally- Phase IA

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	229	1.0	229.0	229.0
Recreation Area	1.5"	1	5.0	5.0	5.0
	Total	230		234.0	234.0

ERC Tally- Phase IB

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	93	1.0	93.0	93.0
	Total	93		93.0	93.0

ERC Tally- Phase IC

Occupancy	Meter Size	# of Bldgs & Meters	Water ERC per Meter	Total Water ERC's by Meter Size	Total Sewer ERC's per Meter Size
Single Family	3/4"	174	1.0	174.0	174.0
	Total	174		174.0	174.0

RECORD DRAWING

I CERTIFY THAT THESE RECORD DRAWINGS 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.

DATE:

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

4570C - CORAL LAKES - PHASE I

S:\JOBS\4500\4570C\DRAWINGS\RECORD DRAWINGS\UTILITIES\4570C-01-COVER.DWG 4/17/2025 1:37 PM TODD HAHN

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE CONDITIONS FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER A WRITTEN LIST OF ALL PERMITS AND COPIES THEREOF, AND CAREFULLY REVIEW ALL PLANS, SPECIFICATIONS, AND PERMITS PREVIOUSLY SECURED ON BEHALF OF THE OWNER. IN CASE OF ANY DISCREPANCY EITHER IN PERMIT DOCUMENTS, PLANS, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR MUST PROMPTLY SUBMIT A "WRITTEN CLARIFICATION REQUEST" TO THE OWNER, WHO WILL PROMPTLY FORWARD THE REQUEST TO THE ENGINEER WHO WILL MAKE A DETERMINATION IN WRITING. THE CONTRACTOR MUST VERIFY EXISTING FACILITY INFORMATION, AND ALL DESIGN/PERMIT DATA REQUIRED FOR WORK THAT IS TO CONNECT WITH EXISTING FACILITIES. ANY DISCREPANCIES BETWEEN THE CONTRACT REQUIREMENTS AND THE EXISTING CONDITIONS MUST BE REFERRED TO THE OWNER IN WRITING, FOR AN ENGINEERING DETERMINATION. ANY FUTURE ADJUSTMENT DUE TO FAILURE BY THE CONTRACTOR TO IDENTIFY THE RELATED DISCREPANCY, WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LICENSES, ADDITIONAL PERMITS, AND FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY:

THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE ALSO FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE STATE OF FLORIDA ROADWAY AND 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 AND INDEMNIFY THE OWNER AND THE ENGINEER OF RECORD, THEIR OFFICERS, REPRESENTATIVES AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/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 AND APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALL PROJECT MATERIALS AND COMPONENTS. THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND 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 PROVIDED:

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.
2. EASEMENT ACKNOWLEDGEMENT.
3. AFFIDAVIT.
4. RELEASE OF LIEN.
5. BILL OF SALE.
6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER.
7. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD, SUBMIT TWO REPRODUCIBLE COPIES OF PRINTS.
8. DETAILED COST OF CONSTRUCTION: MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST AND 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).
12. PRESSURE TEST REPORT(S).
13. INFILTRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES AND LAMPING REPORTS.
14. LIFT STATION INSPECTION (START-UP) REPORT(S) AND 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, AND POWER COMPANIES, 10 DAYS IN ADVANCE, THAT THE CONTRACTOR INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND 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.

PROJECT SIGN:

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CONSTRUCTION PROJECT SIGN AT A LOCATION DIRECTED BY THE 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 RECEIPT OF A NOTICE TO PROCEED. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE THESE SIGNS AND RETURN TO BANKS ENGINEERING, INC. THEIR SIGN.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION:

PROTECTION OF LAND 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 AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL COUNTY AND 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 THROUGH, OR ADJACENT TO THE PROJECT AREA.

1. EROSION AND SEDIMENT CONTROL – ALL PRACTICAL AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR OTHER DELETERIOUS MATERIALS 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 AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, MULCHING, SODDING, SAND BAGGING, BALED HAY OR STRAW, FLOATING SILT BARRIERS, STACKED SILT BARRIERS, ETC., MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
   B. REVEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
   C. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
   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, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED ON THE PLANS. THE LATEST VERSION OF THE D.O.T. ROAD AND BRIDGE SPECIFICATIONS SHALL BE USED UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

   CONTRACTOR RESPONSIBLE FOR STABILIZING AND MAINTAINING SLOPES AND SOD THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS APPROVED BY THE ENGINEER.

PROTECTION OF FISH AND WILDLIFE:

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

RECORDING AND PRESERVING HISTORICAL AND 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 AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

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

1. GENERAL

1.01 SUBMITTALS

A. EROSION AND 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 AND NATURE OF THE WORK, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND 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 AND HOW WATER AFFECTS HIS WORK.

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 INDICATES CERTAIN CONDITIONS FOUND AND 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 AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS THAT MAY FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION.
B. WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED.
C. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION AND HE AGREES THAT THE CONTRACTOR WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD THE CONTRACTOR FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY THE CONTRACTOR.

1.04 BENCHMARKS AND MONUMENTS

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

1.05 JOB CONDITIONS

A. CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
B. PROTECTION
   a. EXISTING STRUCTURES AND PROPERTY: TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES; PROVIDE AND PLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSE THEREBY OR RESULTING THEREFROM. IF AT ANY SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN CHANGED BY THE OWNER.
   b. SIDEWALKS AND 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 AND UTILITIES.
   c. RESPONSIBILITY: BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH MAY BE 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 AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH DESTROYED.

2. EXECUTION

2.01 GENERAL

A. ACCOMPLISH IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND 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 AND CODES.
C. INTERFERENCE: CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS AND 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 AND 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 AND BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION AND 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 AND RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.

2.02 LOCATIONS AND ELEVATIONS

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

2.03 CLEARING AND GRUBBING

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

2.04 STRIPPING

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

2.05 EXCAVATION

A. BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND 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, AND OTHER NON-LANDSCAPED AREAS.
D. EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED.
E. CLASSIFY EXCAVATED MATERIALS AND 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 AND BACKFILL.

2.06 FILLING, BACKFILLING AND COMPACTING

A. THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDE ROCK), SURFACES AFTER EXCAVATION, FILLING AND 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 AND BACKFILLS.
C. FILLING AND 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 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 AND COMPACTED AS SPECIFIED HEREIN BEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
F. COMPACTION REQUIREMENTS
   a. FILL UNDER LAWNS AND PLANTED: 95%
   b. BELOW SLABS ON GRADE AND CONCRETE WALKS: 98%
   c. UNDER PAVING PARKING AREAS: 98%

2.07 TESTING

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

SUPPLEMENTAL SPECIFICATIONS:

1. GENERAL

THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL SITE DEVELOPMENT STANDARDS AND CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN THE PROJECT SPECIFICATIONS, UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND 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 TRANSPORTATIONS STANDARD 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 AND SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATION ACTIVITIES FOR ALL PUMP STATIONS, MAIN LINES, SERVICE LINES, MANHOLES AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY THE CHARLOTTE COUNTY UTILITIES, GOVERNMENTAL REGULATIONS, OR THE MANUFACTURER'S 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 AND MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, AND BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/ WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS AND 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 AND / OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW THE SUB-BASE OR TRENCH BOTTOM AND SHALL BE BACKFILLED WITH THE AASHTO A-3 MATERIAL OR BETTER WITH PLACEMENT AND 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:

1.01 GENERAL

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

1.02 METHOD

A. THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DEWATERING REQUIREMENTS, MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND 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 AND FEDERAL REGULATIONS.
D. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF, SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS AND 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:

1.01 QUALITY ASSURANCE

A. COMPLY WITH ACI STANDARDS RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES (ACI 325.9R,

ABBREVIATIONS

ABD	ABANDONED
AC	ACRE
ACCEL	ACCELERATION
ADJ	ADJUST
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AM	11:59 MIDNIGHT UNTIL 12:00 NOON
APPL	APPLICATION
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
ASSEM	ASSEMBLY
ATTN	ATTENTION
AUX	AUXILIARY
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
BC	BACK OF CURB
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BE	BURIED ELECTRIC
BEG	BEGIN
BIT	BITUMINOUS
BK	BACK
BL	BASELINE
BLC	BASELINE CONTROL
BLDG	BUILDING
BLKHD	BULKHEAD
BLVD	BOULEVARD
BM	BENCHMARK
BNDRY	BOUNDARY
BOT	BOTTOM
BP	BORROW PIT
BR	BRIDGE
BRG	BEARING
BT	BURIED TELEPHONE
BTFLY	BUTTERFLY
BTWN	BETWEEN
BW	BOTTOM WIDTH
C&G	CURB AND GUTTER
CIP	CAST IN PLACE
CA	COURSE AGGREGATE
CAP	CORRUGATED ALUMINUM PIPE
CASP	CORRUGATED ALUMINIZED STEEL PIPE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CBC	CONCRETE BOX CULVERT
CBS	CONCRETE BOX STRUCTURE
CC	CENTER TO CENTER
CD	CROSS DRAIN
CEM	CEMENT
CF	CUBIC FOOT
CFS	CUBIC FOOT PER SECOND
CH	CHANNEL
CI	CAST IRON
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CLEAR	CLEARANCE
CM	CONCRETE MONUMENT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
COL	COLUMN
COM	COMMERCIAL
COMP	COMPOSITE
CON	CONNECT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORR	CORRUGATED
COV	COVER
CP	CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
CR	CONTROL RADIUS
CRS	COURSE
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CY	CUBIC YARD
CULV	CULVERT
CWE	CONTROL WATER ELEVATION
D	DEPTH
DIA	DIAMETER
DA	DRAINAGE AREA
DBH	DIAMETER AT BREAST HEIGHT
DBI	DITCH BOTTOM INLET
DBL	DOUBLE
DE	DRAINAGE EASEMENT
DECEL	DECELERATION
DEG	DEGREE
DELIN	DELINEATORS
DEPT	DEPARTMENT
DET	DETECTABLE
DFE	DESIGN FLOOD ELEVATION
DGN	DESIGN
DHW	DESIGN HIGH WATER
DHWE	DESIGN HIGH WATER ELEVATION
DHWL	DESIGN HIGH WATER LEVEL
DI	DROP INLET
DIM	DIMENSION
DIST	DISTANCE
DR	DRIVE
DRWY	DRIVEWAY
DS	DESIGN SPEED
DSWT	DRY SEASON WATER TABLE
DT	DITCH
DWG	DRAWING
E	EAST
EOP	EDGE OF PAVEMENT
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELLIP	ELLIPTICAL
EMBED	EMBEDMENT
EMBK	EMBANKMENT
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EST	ESTABLISHED
ESTM	ESTIMATE
ETC	ET CETERA
EW	ENDWALL
EX	EXCEPT
EXC	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTENSION
FL	FLOWLINE
FS	FLORIDA STATUTES
FAC	FLORIDA ADMINISTRATIVE CODE
FC	FRICTION COURSE
FD	FRENCH DRAIN
FDN	FOUNDATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FLOOR ELEVATION
FED	FEDERAL
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FLA	FLORIDA
FLEX	FLEXIBLE
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
FR	FRAME
FT	FOOT OR FEET
FTB	FLOATING TURBIDITY BARRIER
FURN	FURNISH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GAR	GARAGE
GB	GRADE BREAK
GD	GUTTER DRAIN
GIP	GALVANIZED IRON PIPE
GM	GAS MAIN
GP	GRADE POINT
GR	GRADE OR GRATE
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GTTR	GUTTER
GV	GATE VALVE
HS	HIGH STRENGTH
HB	HAY BALES
HC	HANDICAPPED OR HORIZONTAL CLEARANCE
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HNDRL	HANDRAIL
HOA	HOME OWNERS ASSOCIATION
HOR	HORIZONTAL
HP	HIGH POINT OR HIGH PRESSURE
HR	HOUR
HSE	HOUSE
HT	HEIGHT
HW	HIGH WATER
HWY	HIGHWAY
HYD	HYDRAULIC
HZ	HERTZ
ID	INSIDE DIAMETER OR IDENTIFICATION
IN	INCH(ES)
INC	INCORPORATED OR INCLUDING
IND	INDUSTRY
INSTALL	INSTALLED
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
ISECT	INTERSECTION
ISL	ISLAND
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
K	DESIGN HOUR FACTOR
KWH	KILOWATT-HOUR
L	LENGTH
L/W	LIGHTWEIGHT
LA	LIMITED ACCESS
LAT	LATITUDE
LB	POUNDS
LB/SY	POUNDS PER SQUARE YARDS
LBR	LIME ROCK BEARING RATIO
LF	LINEAR FEET (FOOT)
LGTH	LENGTH
LIN	LINEAR
LM	LUMEN
LME	LAKE MAINTENANCE EASEMENT
LMRK	LIME ROCK
LOC	LOCATION
LONG	LONGITUDE
LS	LUMP SUM OR LANDSCAPE
LSB	LANDSCAPE BUFFER
LT	LEFT TURN
LTD	LIMITED
LUM	LUMINAIRE
LX	LUX
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MEDIAN BARRIER
MED	MEDIAN
MES	MITERED END SECTION
MFG	MANUFACTURER
MH	MANHOLE
MHW	MEAN HIGH WATER
MI	MILE
MID	MIDDLE
MIL	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLW	MEAN LOW WATER
MOBL	MOBILIZATION
MOD	MODIFIED
MON	MONUMENT
MOT	MAINTENANCE OF TRAFFIC
MP	MILE POST
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTD	MOUNTED
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
N&C	NAIL AND CAP
N&D	NAIL AND DISK
NA	NOT APPLICABLE
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NE	NORTHEAST
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NHW	NORMAL HIGH WATER
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
OBG	OPTIONAL BASE GROUP
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
OPT	OPTIONAL
OT	OVERHEAD TELEPHONE
PAR	PARALLEL
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCBC	PRECAST CONCRETE BOX CULVERT
PCE	PERMANENT CONSTRUCTION EASEMENT
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PEN	PENETRATION
PG	PROFILE GRADE
PGL	PROFILE GRADE LINE
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PARKING
PKWY	PARKWAY
PL	PROPERTY LINE
PM	12:00 NOON UNTIL 11:59 MIDNIGHT
POC	POINT OF CONNECTION OR POINT OF CURVE
PP	POWER POLE
PR	PAIR
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREST	PRESTRESSED
PRM	PERMANENT REFERENCE MONUMENT
PROD	PRODUCT
PROJ	PROJECT
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSU	PRESTRESSED SLAB UNIT
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
Q	PEAK DISCHARGE OR FLOW VOLUME
R	RADIUS
RT	RIGHT
ROW	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDSD	ROADSIDE
RDWY	ROADWAY
REC	RECREATIONAL
RECT	RECTICULINE
REF	REFERENCE
REFL	REFLECTIVE
REG	REGISTERED
REINF	REINFORCED
RELOC	RELOCATED
REM	REMOVAL
RED	REDUCER
REPL	REPLACE
REQ	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RM	RE-USE MAIN OR REFERENCE MONUMENT
RP	REFERENCE POINT
RPM	RAISED REFLECTIVE PAVEMENT MARKERS
RR	RAILROAD
RSF	RESURFACE
SAN	SANITARY
SB	SOUTHBOUND
SCH	SCHEDULE
SD	STORMDRAIN
SE	SOUTHEAST
SECT	SECTION
SED	SEDIMENT
SEP	SEPARATION
SG	SUBGRADE
SHT	SHEET
SHLDR	SHOULDER
SHW	SEASONAL HIGH WATER
SHWT	SEASONAL HIGH WATER TABLE
SP	SUPER PAVE
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SQ IN	SQUARE INCH
SY	SQUARE YARD
SR	STATE ROAD
SS	SANITARY SEWER OR STAINLESS STEEL
ST	STREET
STA	STATION
STAB	STABILIZATION
STB	STAKED TURBIDITY BARRIER
STD	STANDARD
STGE	STORAGE
STL	STEEL
STR	STRUCTURE
STY	STORY
SUB	SUB SOIL
SUBST	SUBSTITUTE
SUPPTS	SUPPORTS
SUR	SURVEY
SURF	SURFACE
SW	SIDEWALK OR SOUTHWEST
SWMA	STORM WATER MANAGEMENT AREA
SYM	SYMMETRICAL
SYS	SYSTEM
TWP	TOWNSHIP
TAN	TANGENT
TC	TANGENT TO CURVE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TK	TRUCK
THICK	THICKNESS
TIS	TRAFFIC IMPACT STATEMENT
TN	TON
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TRAF	TRAFFIC
TREAT	TREATMENT
TW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNDDR	UNDER DRAIN
USGS	UNITED STATES GEOLOGICAL SERVICE
UTIL	UTILITIES
UV	ULTRAVIOLET
V	VOLT
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
VERT	VERTICAL
VOL	VOLUME
VW	VARIABLE WIDTH
W	WIDTH OR WATT
W/	WITH
WB	WESTBOUND
WM	WATER MAIN
WSWT	WET SEASON WATER TABLE
WT	WATER TABLE
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCING
XING	CROSSING
XSEC	CROSS SECTION
YD	YARD
YR	YEAR

PD CONCEPT PLAN GENERAL NOTES:

1. ALL TRACT LINES SHOWN ARE PRELIMINARY & MAY BE CHANGED DUE TO MARKET CONDITIONS, DESIGN CONSTRAINTS OR PERMITTING REQUIREMENTS AT FINAL DETAIL SITE PLAN APPROVAL.
2. WHERE A LANDSCAPE BUFFER IS REQUIRED, DEVELOPER TO WORK WITH COUNTY STAFF TO DETERMINE IF EXISTING TREES & VEGETATION MEET BUFFER REQUIREMENTS & DETERMINE WHAT ADDITIONAL TREES WILL BE REQUIRED TO MEET COUNTY LANDSCAPE BUFFER MINIMUM REQUIREMENTS.
3. ALL ON-SITE LAKES WILL BE A PART OF THE STORM WATER MANAGEMENT SYSTEM.
4. PROPOSED PROJECT SHALL BE SERVICED BY CENTRAL WATER & SEWER.
5. ALL INTERNAL STREETS ARE PROPOSED TO BE PRIVATE.

DRAINAGE GENERAL NOTES:

1. ALL EXISTING AND PROPOSED ELEVATIONS REFERENCE THE NAVD88 DATUM.
2. 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.
3. ALL BACKFILL SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE BEDDING DETAILS.
4. CONTRACTOR SHALL COORDINATE ALL WORK IN THE COUNTY RIGHT-OF-WAY WITH CHARLOTTE COUNTY.
5. 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 & 941.
6. CONTRACTOR SHALL SOD OR SEED & MULCH ALL DISTURBED AREAS ON-SITE AND OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
7. SOD ALL SWALE AND TREATMENT AREAS.
8. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY
9. 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.
17. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, LATEST EDITION.
18. ALL ROOF DRAINS SHALL BE DIRECTED TOWARD OR CONNECTED TO THE ONSITE STORMWATER MANAGEMENT AREA.

PROJECT INFORMATION:

1. THIS PROJECT PRESENTS NO ADVERSE IMPACTS ON LOCAL GROUNDS OR SURFACE WATERS, AND DOES NOT ADVERSELY IMPACT THE FLOOD ZONE.
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.
3. THE PROJECT DOES NOT IMPACT ANY KNOWN UNMITIGATED WETLANDS.

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. 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.
4. CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS & OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
5. ALL PAVEMENT STRIPING TO BE TWO COATS OF HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.
6. ALUMINUM SIGN BLANKS: ALL SIGN BLANKS & STREET SIGNS SHALL BE FABRICATED FROM ALUMINUM SHEET CONFORMING TO ASTM SPECIFICATION B209, WITH 5052-H38 ALLOY & SHALL HAVE A THICKNESS OF 0.080 INCHES. SIGN BLANK DIMENSIONS, HOLE SIZE, LOCATION OF HOLES, & CORNER RADII SHALL BE AS DEFINED IN THE U.S. DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY MANUAL, & THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. SIGN POSTS: STEEL POSTS SHALL CONFORM TO THE STANDARD SPECIFICATION OF HOT-ROLLED CARBON SHEET STEEL, STRUCTURAL QUALITY, THE CROSS SECTION OF THE POST SHALL BE A SQUARE TUBE FORMED OF 14-GAUGE SQUARE GALVANIZED STEEL POSTS - FULL PUNCH. POSTS TO BE 2"SQUARE, CAREFULLY ROLLED TO SIZE & WELDED IN THE CORNER. THE FURNISHED MEMBERS SHALL BE STRAIGHT & SHALL HAVE A SMOOTH UNIFORM FINISH. ALL SIGN POST OUTSIDE CONCRETED AREAS SHALL BE PLACED WITH HI STRENGTH CONCRETE MIX WITH MEETS OR EXCEEDS ASTM C-387 SPECIFICATIONS. EACH POST SHALL HAVE A MINIMUM OF 20 POUNDS & A MAXIMUM OF 40 POUNDS OF CONCRETE PLACED AROUND EACH POST. THE TOP OF THE CONCRETE SHALL BE A MINIMUM OF 18" BELOW THE FINAL SURFACE. ALL SIGNS PLACED IN CONCRETED AREAS SHALL HAVE A 10"-12"PVC PIPE LINER INSERT SURROUNDING THE SIGN POST. THE PVC SHALL BE FLUSH WITH THE FINAL SURFACE OF THE SURROUNDING CONCRETE & BE FILLED WITH DIRT TO SUPPORT THE SIGN. THESE SHALL NOT BE FILLED WITH CONCRETE.
8. SIGN HEIGHT & LOCATIONS: ALL POST MOUNTED SIGNS SHALL CONFORM TO CURRENT FDOT DESIGN STANDARDS. FOR SIGN INSTALLATIONS IN RESIDENTIAL AREAS WITH NO PAVED SHOULDER, SIDEWALK OR CURB & GUTTER USE THE STANDARD BELOW FOR SIGN PLACEMENT & HEIGHTS.
9. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION.

OPEN SPACE:

OPEN SPACE REQUIRED: 66.0 AC PER PD APPROVAL
OPEN SPACE PROVIDED: (WETLAND WITH BUFFER AREAS + COMMON OPEN SPACE)
= 30.2 AC + 38.01 AC
= 68.21 AC ÷ 306.51 AC = 22.3%

TABLE 1 - SURFACE WATER MANAGEMENT CALCULATIONS

1.1 BASIN SUMMARY AND LAND USE

	B-A (acres)	B-A1 (acres)	B-B (acres)	B-C (acres)	B-D (acres)	B-E (acres)	B-E1 (acres)	B-E2 (acres)	B-E3 (acres)	B-E4 (acres)	B-E5 (acres)	B-E6 (acres)	B-E7 (acres)	B-F (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	15.07	3.73	10.48	31.15	19.94	19.31	1.74	3.97	4.90	2.98	1.79	4.64	4.80	6.39	130.89	
STORMWATER TREAMENT BASIN AREA	15.07	3.73	10.48	31.15	19.94	19.31	1.74	3.97	4.90	2.98	1.79	4.64	4.80	6.39	130.89	100.0%
GREEN SPACE:	6.44	1.85	4.92	8.06	6.77	8.02	0.76	1.99	2.47	1.57	0.80	2.28	2.39	2.28	50.59	38.7%
TOTAL PERVIOUS AREAS	6.44	1.85	4.92	8.06	6.77	8.02	0.76	1.99	2.47	1.57	0.80	2.28	2.39	2.28	50.59	
WET DETENTION:	3.02	0.00	1.27	6.91	7.02	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	24.02	18.4%
ASPHAULT AND ROOF:	5.61	1.88	4.29	16.18	6.15	6.50	0.98	1.98	2.43	1.42	0.99	2.36	2.40	3.11	56.27	43.0%
TOTAL IMPERVIOUS AREA	8.64	1.88	5.56	23.09	13.17	11.29	0.98	1.98	2.43	1.42	0.99	2.36	2.40	4.11	80.29	

	B-G (acres)	B-G1 (acres)	B-G2 (acres)	B-G3 (acres)	B-H (acres)	B-I (acres)	B-J (acres)	B-K (acres)	B-L (acres)	B-M (acres)	B-N (acres)	B-N1 (acres)	B-O (acres)	B-P (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	11.90	1.24	2.22	2.60	5.79	5.06	6.16	13.58	10.10	16.57	17.71	4.14	15.03	17.71	129.82	
STORMWATER TREAMENT BASIN AREA	11.90	1.24	2.22	2.60	5.79	5.06	6.16	13.58	10.10	16.57	17.71	4.14	15.03	17.71	129.82	100.0%
GREEN SPACE:	5.76	0.63	1.01	1.38	2.04	1.79	0.80	4.00	4.37	6.71	6.76	1.93	5.97	7.84	51.00	39.3%
TOTAL PERVIOUS AREAS	5.76	0.63	1.01	1.38	2.04	1.79	0.80	4.00	4.37	6.71	6.76	1.93	5.97	7.84	51.00	
WET DETENTION:	3.29	0.00	0.00	0.00	2.62	2.16	5.37	6.82	2.07	3.81	4.66	0.00	2.93	2.98	36.72	28.3%
ASPHAULT AND ROOF:	2.85	0.60	1.21	1.21	1.13	1.11	0.00	2.75	3.67	6.05	6.29	2.21	6.13	6.90	42.10	32.4%
TOTAL IMPERVIOUS AREA	6.14	0.60	1.21	1.21	3.75	3.27	5.37	9.58	5.74	9.86	10.95	2.21	9.06	9.88	78.82	

	B-WET1 (acres)	B-WET2 (acres)	B-WET3 (acres)	B-WET5 (acres)	TOTAL (acres)	COVER
ON-SITE BASIN AREA	5.27	5.71	7.72	1.87	20.57	
STORMWATER TREAMENT BASIN AREA	5.27	5.71	7.72	1.87	20.57	100.0%
PERVIOUS:	0.20	0.93	1.38	0.55	3.06	14.9%
WETLAND:	5.08	4.79	6.33	1.32	17.51	85.1%
TOTAL PERVIOUS AREAS	5.27	5.71	7.72	1.87		
TOTAL IMPERVIOUS AREA	0.00	0.00	0.00	0.00	0.00	0.0%

NOTE 1: ALL STORMWATER TREAMENT AREAS ARE PART OF ON-SITE BASIN AREAS BUT NOT ALL ON-SITE BASIN AREAS ARE PART OF TREAMENT AREAS

CONTROL ELEVATION/SEASONAL HIGH WATER TABLE	=	5.5-16 ft (NAVD)
MINIMUM ROAD ELEVATION	=	9.80 ft (NAVD)
AVERAGE DEVELOPED GRADE ELEVATION	=	12.00 ft (NAVD)
MINIMUM FINISHED FLOOR IN FEMA ZONE 12015C0409G & 12015C0407G	=	10.00 ft (NAVD)
MINIMUM FINISHED FLOOR 100YR-24HR	=	8.03-17.58 ft (NAVD)

NOTE 2: FFE LISTED IS 18" ABOVE MIN EOP

100-24	10.0 in	-	ft (NAVD)		

1.9.2 - 100 YR-24HR LAKE STAGES

LAKE ID	STORM EVENT	MAXIMUM STAGE	
LAKE A	**100-24**	11.12	ft (NAVD)
LAKE B	**100-24**	13.24	ft (NAVD)
LAKE C	**100-24**	10.58	ft (NAVD)
LAKE D	**100-24**	11.29	ft (NAVD)
LAKE E	**100-24**	14.34	ft (NAVD)
LAKE F	**100-24**	7.72	ft (NAVD)
LAKE G	**100-24**	12.33	ft (NAVD)
LAKE H	**100-24**	8.15	ft (NAVD)
LAKE I	**100-24**	10.38	ft (NAVD)
LAKE J	**100-24**	14.91	ft (NAVD)
LAKE K	**100-24**	8.32	ft (NAVD)
LAKE L	**100-24**	11.33	ft (NAVD)
LAKE M	**100-24**	14.89	ft (NAVD)
LAKE N	**100-24**	11.34	ft (NAVD)
LAKE O	**100-24**	14.98	ft (NAVD)
LAKE P	**100-24**	17.58	ft (NAVD)

SITE DATA TABLE:

PROPERTY AREA:	306.51 ACRES
CURRENT ZONING:	(PD) PLANNED DEVELOPMENT
PROPOSED ZONING:	(PD) PLANNED DEVELOPMENT

DENSITY CALCULATION:

MAXIMUM ALLOWED LOTS = 999
PROPOSED LOTS = 496 (PHASE I)
496 UNITS ÷ 306.51 AC = 1.62 UNITS/AC

OPEN HABITAT SPACE:

REQUIRED: 30.2 AC PER PD APPROVAL
PROVIDED: WETLANDS\WETLAND BUFFERS = 30.2 AC ÷ 306.51 AC = 9.9%

NOTES:

1. 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.
2. ALL SIDEWALKS SHALL MEET ADA STANDARDS.
3. ALL SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.
4. CONTRACTOR SHALL FILE FOR A FDEP NOTICE OF INTENT (NOI) FOR CONSTRUCTION GENERAL PERMIT AND A NOTICE OF TERMINATION (NOT) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.
5. ACCORDING TO PARAGRAPH C, OF THE CODE OF LAWS & ORDINANCE CHARLOTTE COUNTY, FLORIDA (AKA MUNICODE), GRANTING AUTHORITY TO THE COUNTY ENGINEER UNDER PART III (LAND DEVELOPMENT & GROWTH MANAGEMENT), CHAPTER 3-6 (ROADS & BRIDGES), ARTICLE II (CONSTRUCTION; IMPROVEMENTS), DIVISION I (GENERALLY), SECTION 3-6-21 (COUNTY SPECIFICATIONS; PERMITS), THAT: GIVEN THE MAGNITUDE OF IMPROVEMENTS THAT WILL BE PERFORMED TO CONSTRUCT PROPOSED IMPROVEMENTS TO BURNT STORE ROAD TURN LANE TO PROVIDE ACCESS TO THE SITE, EITHER THE OWNER, DEVELOPER AND/ OR CONTRACTOR WILL POST A CHECK IN AN AMOUNT SUFFICIENT TO COVER THE COSTS OF INSPECTION SERVICES NECESSARY TO ENSURE WORK PERFORMED WITHIN THE RIGHT-OF-WAY IS PERFORMED IN ACCORDANCE WITH AND ACCEPTABLE TO COUNTY AND FDOT STANDARDS. THIS CHECK WOULD BE USED TO COVER COSTS INCURRED BY CONSTRUCTION MANAGEMENT. AT THE TIME OF PERMIT APPLICATION, THE APPLICANT SHALL PROVIDE A FULL SET OF CONSTRUCTION PLANS, PERTINENT DATA INDICATING THE LENGTH OF CONTRACT TIME NEEDED TO PERFORM THE WORK, AND THE NAME OF THE CONTRACTOR TO PERFORM THE WORK. AN ESTIMATED AMOUNT OF INSPECTION TIME WILL BE CALCULATED, AND AN AMOUNT WILL BE DETERMINED TO COVER THOSE SERVICES. SHOULD THE LENGTH OF TIME OR HOURS NEEDED TO COMPLETE THE INSPECTION SERVICES EXCEED THE ESTIMATE AND POSTED AMOUNT, THE PERMIT HOLDER BY ACCEPTANCE OF THE PERMIT CONDITIONS, WILL BE CHARGED AND AGREE TO REIMBURSE CHARLOTTE COUNTY, ANY ADDITIONAL COSTS INCURRED. NO WORK SHALL COMMENCE UNTIL THIS CHECK IS POSTED AND NO CO WILL BE GIVEN UNTIL ANY OUTSTANDING MONIES DUE THE COUNTY ARE SETTLED.

PARKING BREAKDOWN:

SINGLE FAMILY LOT
REQUIRED: 2.0 SPACES PER LOT (805 UNITS) X (2.0) REQUIRED = 1,610 SPACES

FUTURE COMMERCIAL AREA
PARKING IS PROPOSED TO MEET CHARLOTTE COUNTY LAND DEVELOPMENT CODE & WILL BE PROVIDED AT FINAL DRC.

RECREATIONAL AREA:
RECREATION BUILDING PARKING
REQUIRED: 1 SPACE PER 500 SF FLOOR AREA (2,048 SF FLOOR AREA) ÷ (500 SF) REQUIRED = 5 SPACES

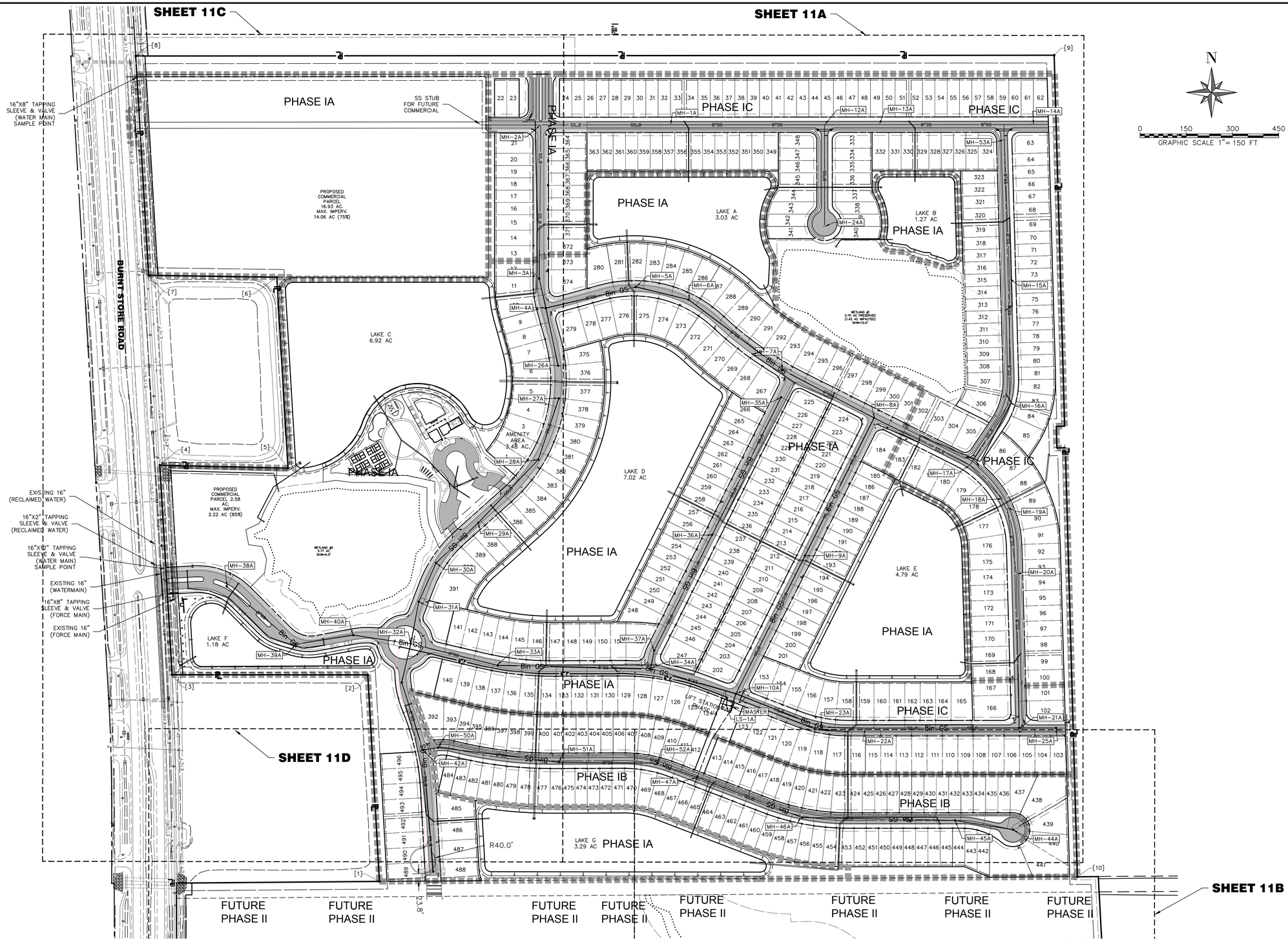
REC AREA POOL
REQUIRED: 1 SPACE PER 250 SF POOL AREA (4,280 SF POOL AREA) ÷ (250 SF) REQUIRED = 18 SPACES

PICKLE BALL COURT
REQUIRED: 2 SPACES PER COURT (6 COURTS) X (2 SPACES) REQUIRED = 12 SPACES
RECREATIONAL AREA TOTAL REQUIRED: 35 SPACES
RECREATIONAL AREA TOTAL PROVIDED: 39 SPACES (2 HC SPACES INCL)

TOTAL REQUIRED: 1,646 SPACES
TOTAL PROVIDED: 1,649 SPACES

FLOOD ZONE INFO:

THE SUBJECT PARCEL AS SHOWN HEREON IS LOCATED ON THE NATIONAL F



N

0 150 300 450

GRAPHIC SCALE 1" = 150 FT

CORAL LAKES - PHASE I

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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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

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RYAN W. POWERS, P.E.
FL LIC #82437

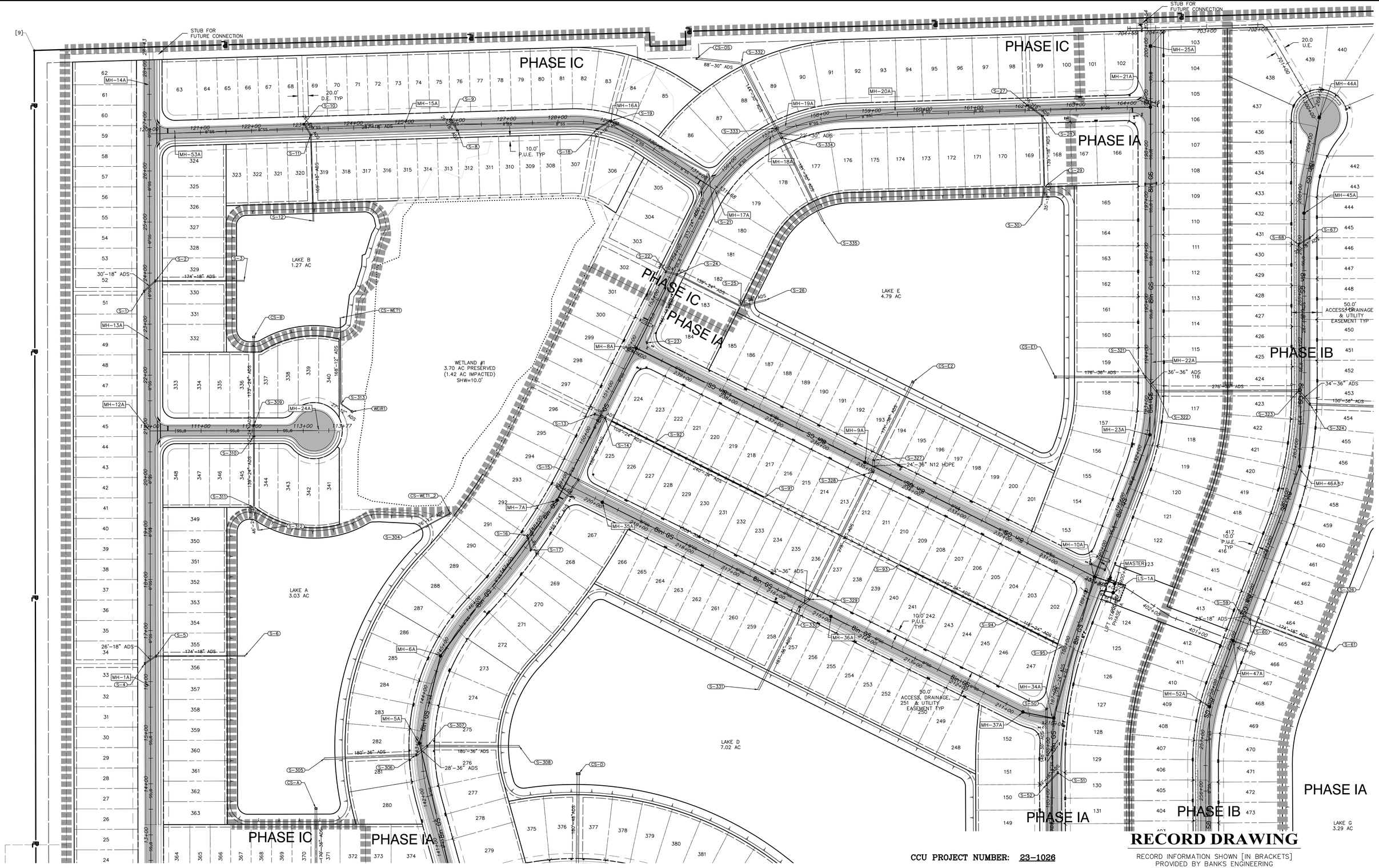
MASTER UTILITY PLAN

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT	RWP	DCT	TRR	1"=150'	11

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RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

0 80' 160' 240'
GRAPHIC SCALE 1"= 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

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FL LIC #82437

UTILITY PLAN - A
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-A	RWP	DCT	TRR	1"=80'	11A

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N

0 80' 160' 240'
GRAPHIC SCALE 1" = 80 FT

STUB FOR FUTURE CONNECTION

PHASE IA

PHASE IB

FUTURE PHASE II

FUTURE PHASE II

FUTURE PHASE II

ACCESS, DRAINAGE, & UTILITY EASEMENT TYP

20.0 U.E.

10.0 P.U.E. TYP

MH-25A
MH-44A
MH-45A
MH-22A
MH-46A
MH-47A
MH-52A

S-67
S-68
S-325
S-322
S-323
S-324
S-326
S-59
S-60
S-61
S-342

36"-36" ADS
34"-36" ADS
150"-36" ADS
278"-36" ADS
290"-36" ADS
23"-18" ADS
374"-18" ADS

88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00 96+45
87+00 86+00 85+00 84+00 83+00 82+00 81+00 80+00 79+00 78+00 77+00 76+00 75+00 74+00 73+00

RECORD DRAWING
RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

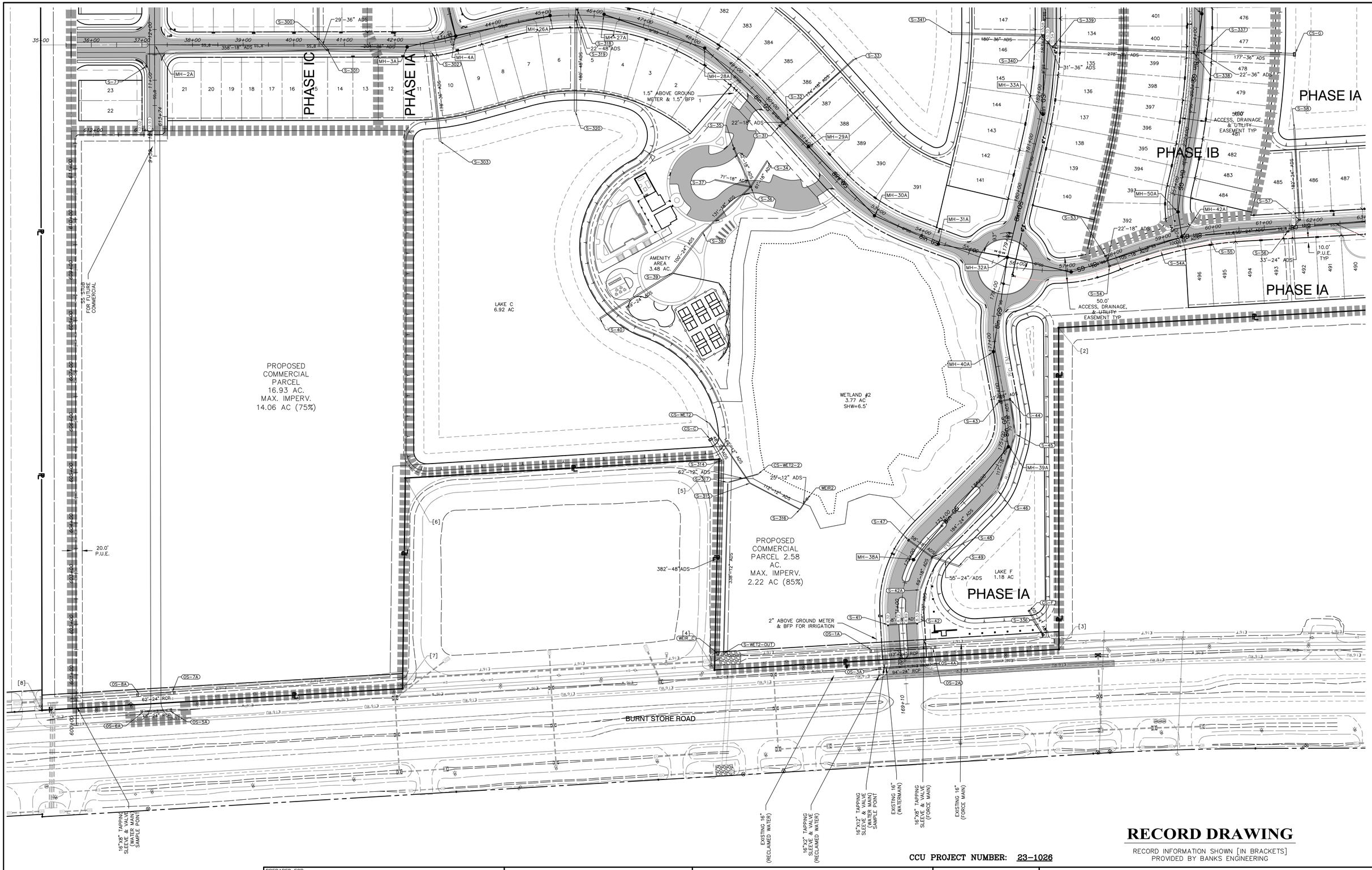
NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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PORT CHARLOTTE, FLORIDA 33952
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FL LIC #82437

UTILITY PLAN - B
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-B	RWP	DCT	TRR	1" = 80'	11B

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RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

N

0 80' 160' 240'

GRAPHIC SCALE 1" = 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
3	5-7-24	REMOVED MH-55A PER CCU COMMENT	DCT
2	3-11-24	REVISED LOT 22 & 23 ORIENTATION	DCT
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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SURVEY LICENSE # LB 6690

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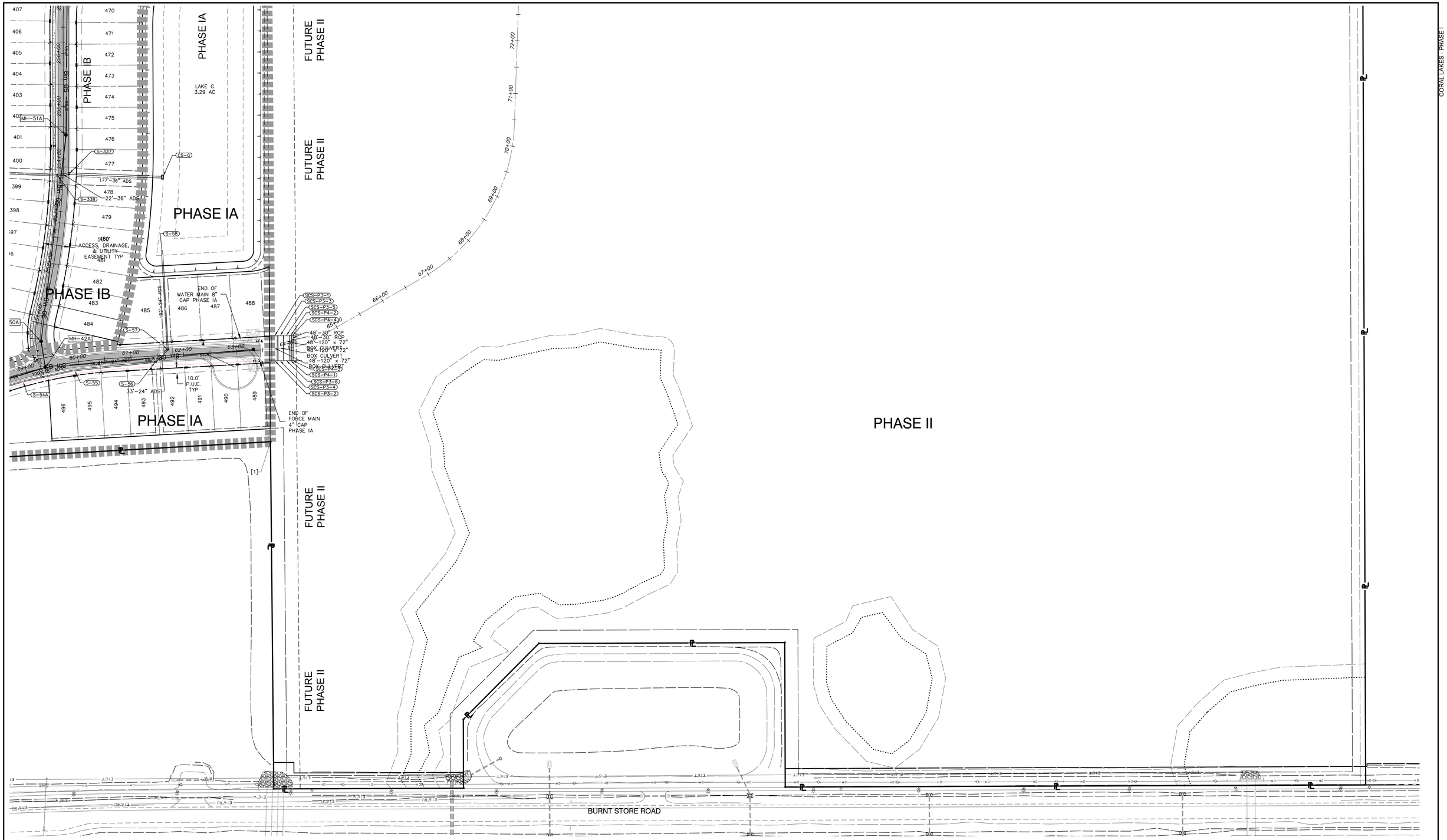
UTILITY PLAN - C

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-C	RWP	DCT	TRR	1" = 80'	11C

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RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

N

0 80' 160' 240'
GRAPHIC SCALE 1" = 80 FT

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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FL LIC #82437

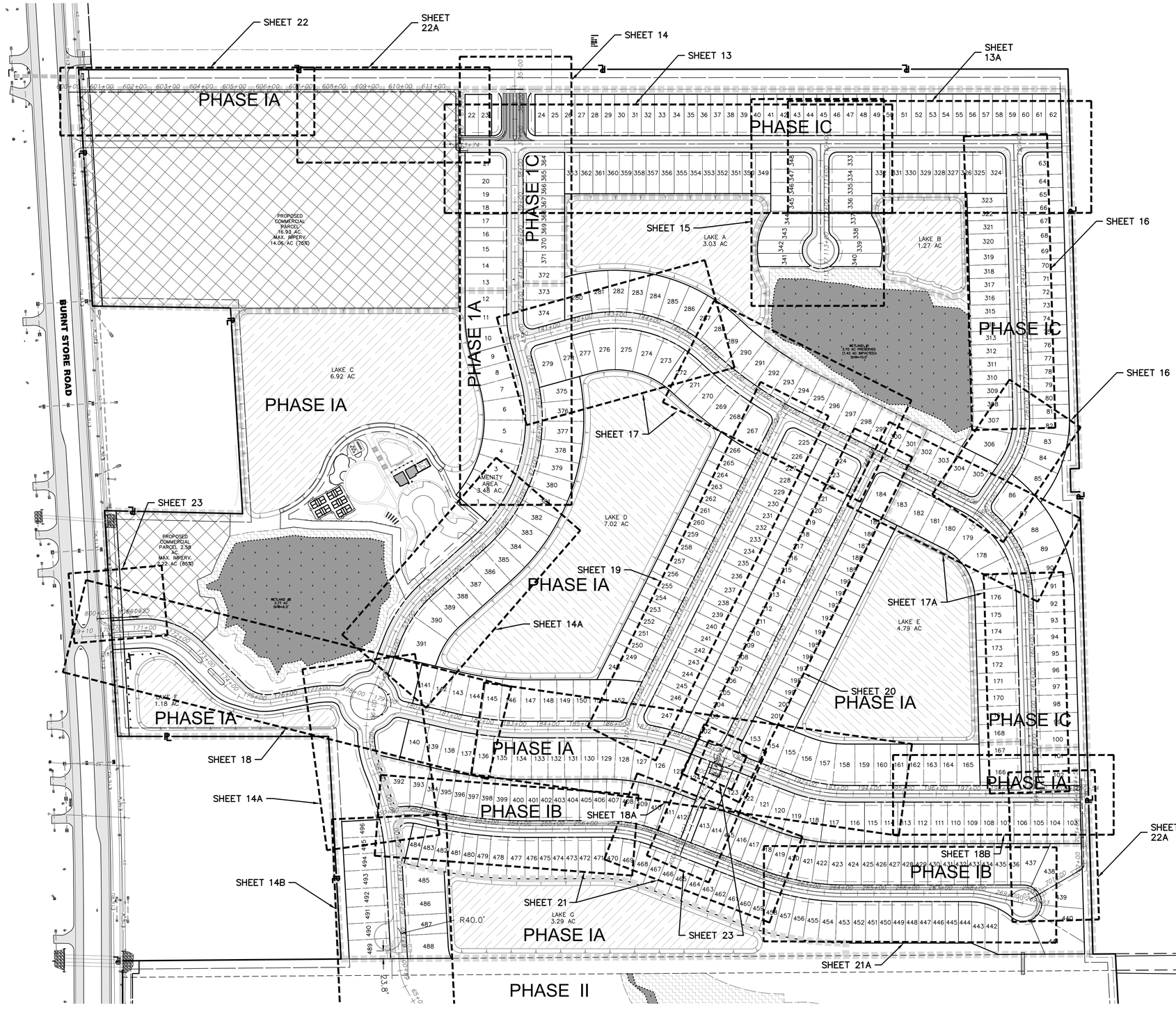
UTILITY PLAN - D

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT-D	RWP	DCT	TRR	1" = 80'	11D

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PHASE 1A RECORD DRAWING

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CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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NO.	DATE	REVISION DESCRIPTION	BY
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KEY SHEET

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	MUT	RWP	DCT	TRR	1"=150'	12

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SEE SHEET 13 FOR CONTINUATION

SEE SHEET 17 FOR CONTINUATION

SEE SHEET 14A FOR CONTINUATION

0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

N

CORAL LAKES - PHASE I

PHASE IA

PHASE IC

INSTALL WATER SERVICES IN THIS AREA EAST SIDE OF THE STREET IN PHASE IA

NOT INSTALLED, TO BE INSTALLED IN PHASE 1C

8" CAP END OF PHASE IA

FIRE HYDRANT ASSEMBLY

8"X8"X8" CROSS

8" BLOW OFF END OF PHASE IC WATER MAIN

8" GATE VALVE

7.0' TYP

MH-2A

50.0' ACCESS, DRAINAGE & UTILITY EASEMENT TYP

SINGLE SS SERV TYP

S-300

29'-36" ADS

170'-36" ADS

DBL SS SERV TYP

[11803]

MH-3A

FIRE HYDRANT ASSEMBLY

8" GATE VALVE

[11799]

4.7'

[13101]

MH-6S

180'-48" ADS

278

279

375

376

377

378

379

380

[11769]

MH-26A

S-318

22'-48" ADS

[2052]

MH-27A

[13003]

[13004]

[2051]

[2049]

[2050]

[11824]

10.0' P.U.E.

S-319

[2053]

3.4'

[11822]

[13010]

MH-4A

8"X8"X8" MJ TEE

S-302

[11820]

[11819]

204'-36" ADS

[11817]

S-301

358'-18" ADS

DBL PW SERV TYP

8" GATE VALVE

S-7

SINGLE PW SERV TYP

613+74

S-320

DBL PW SERV TYP

115" A
GROUND
& 1.5

±1226.9' WATER MAIN

SAN MH-2A
STA 11+20.00, -0.06'L
RIM [12.02']
S INVERT [0.77']
E INVERT [0.87']
W INVERT [0.89']

PVIS: 35+60.01
PVIE: 13.12

8" BLOW OFF END OF PHASE IC WATER MAIN

25.00'

0.30%

8" DR-18 PVC C900 WATER MAIN

3.0' MIN.

PVIS: 35+44.54
PVIE: 9.25

EXISTING GRADE

PVIS: 37+25.00
PVIE: 12.62

8" GATE VALVE

FIRE HYDRANT ASSEMBLY

8" GATE VALVE

0.65%

EXISTING GRADE

358'-18" ADS

8"X8"X8" MJ TEE

PHASE IC WATER MAIN

PHASE IA WATER MAIN

8" CAP END OF PHASE IA

WATER MAIN CONTINUES FROM ANOTHER 8"X8"X8" TEE THAT GOES NORTH SEE PLAN

1.0' MIN. @ PIPE CROSSING

[500'] OF 8" S.D.R. 26 P.V.C. @ [0.39%]

18" ADS NOT IN CONFLICT WITH 8" WATER MAIN

36" RCP @ WM NOT IN CONFLICT W/ SS

36" ADS @ SS

1.0' MIN.

PVIS: 40+57.50
PVIE: 10.45

8" CAP END OF PHASE IA

204'-36" ADS

PHASE IC SANITARY SEWER

PHASE IA SANITARY SEWER

[*] 92' OF 8" S.D.R. 26 P.V.C. @ 0.40% [*]

SAN MH-3A
STA 42+25.00, 5.00'R
RIM [11.29']
S INVERT [-1.26']
N INVERT [-1.20']

FIRE HYDRANT ASSEMBLY

WATER MAIN CONTINUES (PHASE IA)

0.61%

3.0' MIN.

EXISTING GRADE

8" DR-18 PVC C900 WATER MAIN

STA: 41+32.85
ELEV: -0.79

SAN MH-4A
STA 43+21.46, -5.98'L
RIM 12.05' [12.01']
E INVERT -1.73' [-1.94']
N INVERT -1.63' [-1.86']
S INVERT -1.63' [-1.84']

PVIS: 43+21.46
PVIE: 12.05

8" GATE VALVE

0.66%

3.0' MIN.

NOT IN CONFLICT W/ SS

8"X8"X8" MJ TEE

[*] 182' OF 8" S.D.R. 26 P.V.C. @ 3.54% [*]

[98'] OF 8" S.D.R. 26 P.V.C. @ [0.61%]

SAN MH-26A
STA 45+13.65, 0.00'
RIM [10.6']
N INVERT [4.85']
E INVERT [4.90']

PVIS: 45+65.03
PVIE: 10.45

5.0' MIN.

1.0' MIN.

48"ADS

SAN MH-27A
STA 46+18.29, -3.83'L
RIM [10.39']
S INVERT [4.71']
E INVERT [4.93']

0.30%

EXISTING GRADE

5.0' MIN.

[210'] OF 8" S.D.R. 26 P.V.C. @ [0.36%]

20
10
0

E.G.=9.2 F.G.=10.62 | E.G.=8.9 F.G.=13.07 | E.G.=8.6 F.G.=13.00 | E.G.=8.3 F.G.=12.92 | E.G.=8.2 F.G.=12.85 | E.G.=8.2 F.G.=12.77 | E.G.=8.3 F.G.=12.70 | E.G.=8.3 F.G.=12.62 | E.G.=8.3 F.G.=12.46 | E.G.=8.3 F.G.=12.29 | E.G.=8.2 F.G.=12.13 | E.G.=8.2 F.G.=11.97 | E.G.=8.1 F.G.=11.80 | E.G.=8.2 F.G.=11.64 | E.G.=8.2 F.G.=11.48 | E.G.=8.3 F.G.=11.31 | E.G.=8.3 F.G.=11.15 | E.G.=8.3 F.G.=10.99 | E.G.=8.2 F.G.=10.83 | E.G.=8.2 F.G.=10.66 | E.G.=8.3 F.G.=10.50 | E.G.=8.3 F.G.=10.56 | E.G.=8.4 F.G.=10.71 | E.G.=8.5 F.G.=10.86 | E.G.=8.5 F.G.=11.01 | E.G.=8.5 F.G.=11.16 | E.G.=8.5 F.G.=11.31 | E.G.=8.5 F.G.=11.47 | E.G.=8.5 F.G.=11.62 | E.G.=8.6 F.G.=11.77 | E.G.=8.6 F.G.=11.92 | E.G.=8.6 F.G.=12.03 | E.G.=8.6 F.G.=11.86 | E.G.=8.6 F.G.=11.70 | E.G.=8.5 F.G.=11.53 | E.G.=8.5 F.G.=11.37 | E.G.=8.5 F.G.=11.21 | E.G.=8.7 F.G.=11.04 | E.G.=8.8 F.G.=10.88 | E.G.=8.8 F.G.=10.71 | E.G.=8.8 F.G.=10.55 | E.G.=8.8 F.G.=10.48 | E.G.=8.8 F.G.=10.55 | E.G.=8.8 F.G.=10.63 | E.G.=8.6 F.G.=10.70 | E.G.=8.3 F.G.=10.78 | E.G.=7.9 F.G.=10.86 | E.G.=7.8 F.G.=10.93 | E.G.=8.5 F.G.=11.00 | E.G.=5.0 F.G.=11.08

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00

PHASES 1A & 1C RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
3	5-7-24	REMOVED MH-5SA PER CCU COMMENT	DCT
2	3-11-24	REVISED LOT 22 & 23 ORIENTATION	DCT
1	2-27-24	MOVED SERVICES TO ROW PER CCU	DCT

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PHONE: (941) 625-1165 FAX: (941) 625-1149
ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690
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FL LIC #82437

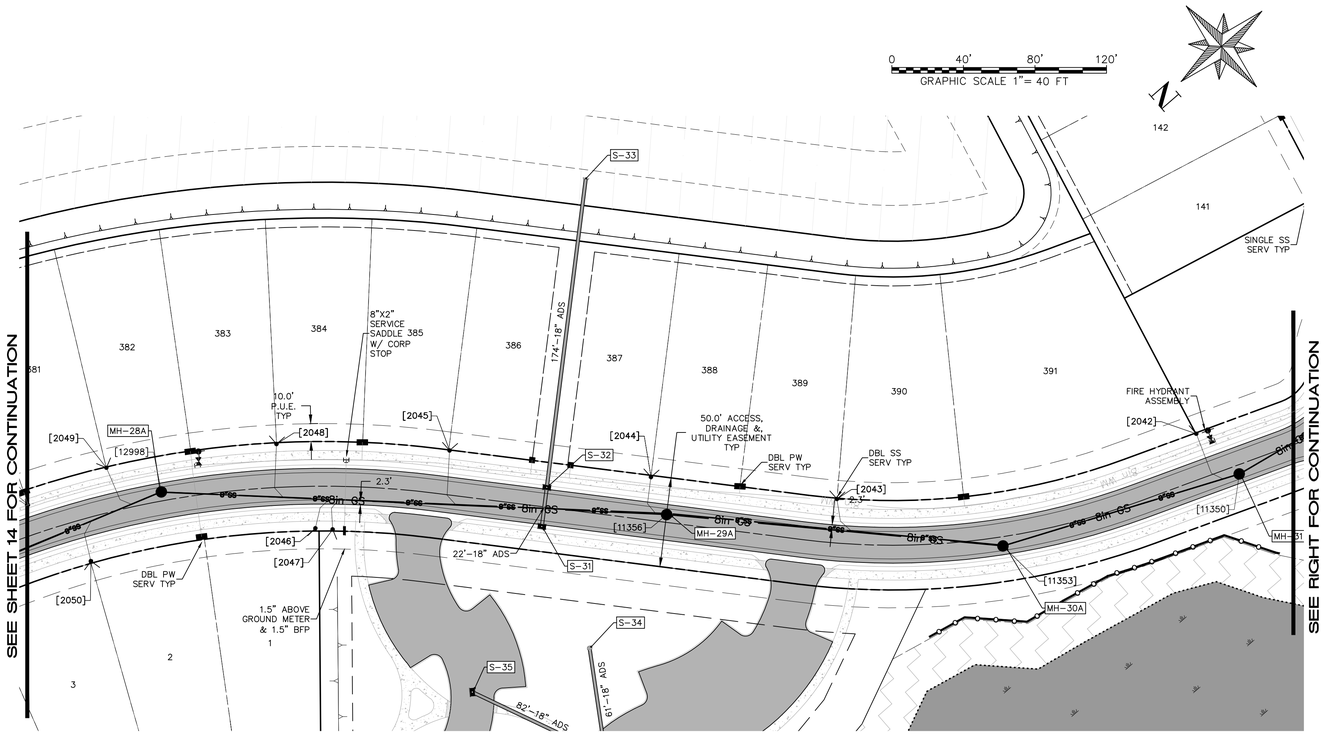
ROAD B - PLAN & PROFILE

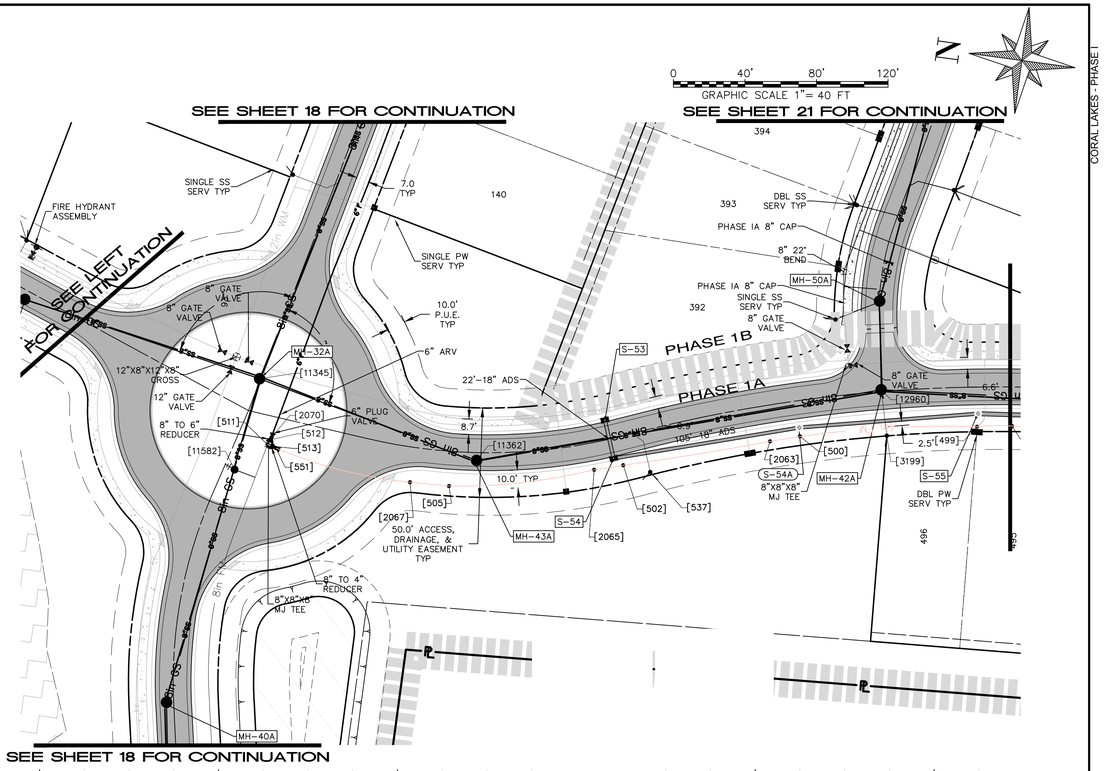
CORAL LAKES - PHASE I

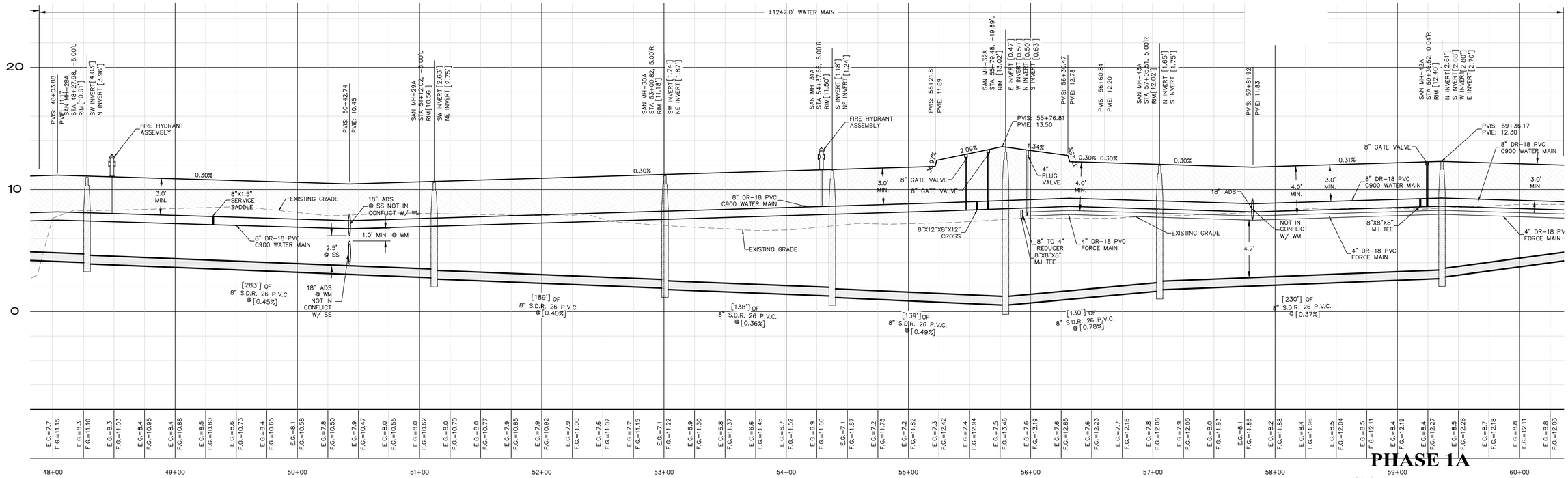
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	14

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PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	REVISED PER SHOP DRAWING REVIEW & MOVED SERVICES TO ROW	DCT

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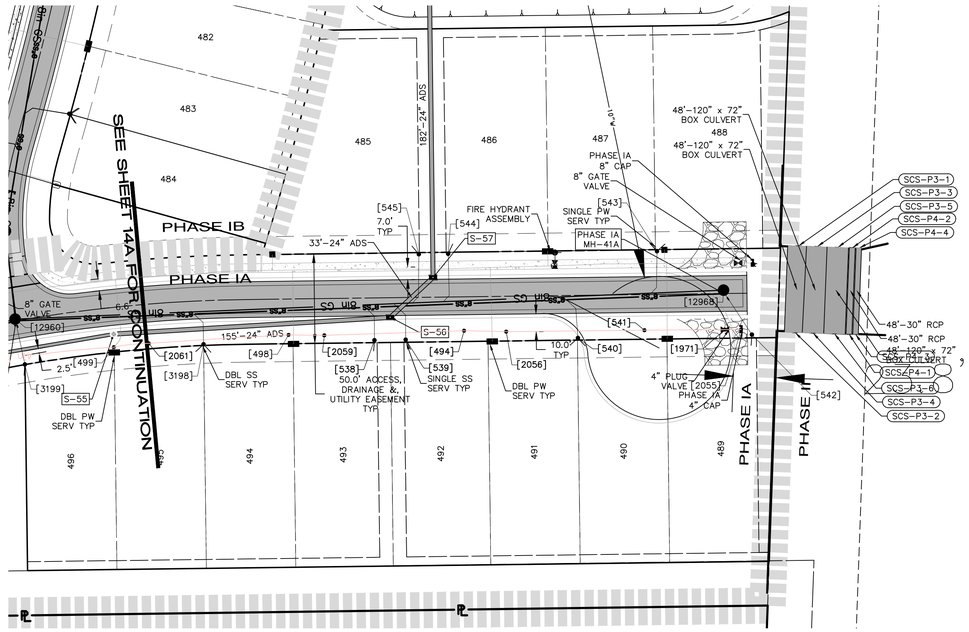
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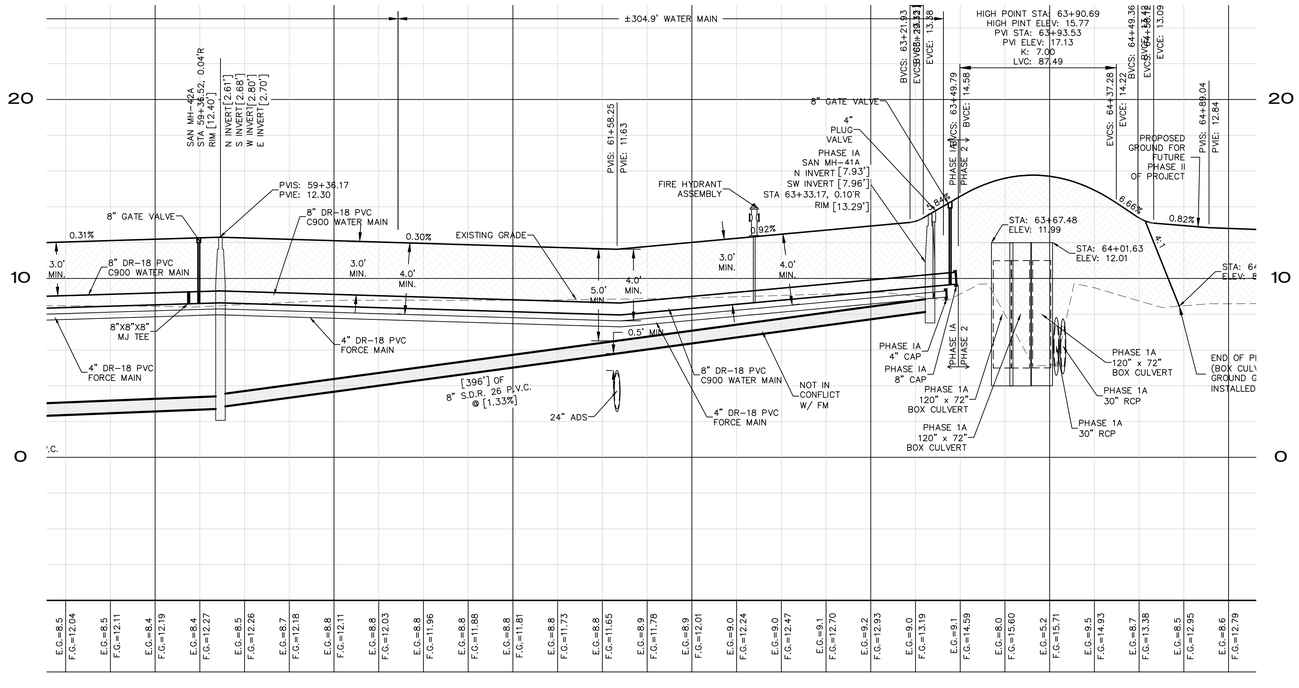
CORAL LAKES - PHASE I

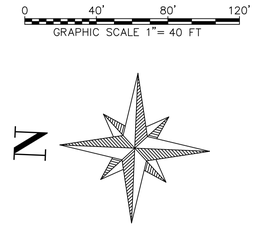
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	14A

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RECORD FORCEMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
511	2069	2.7'
2069	551	2.6'
551	1971	732.9'

*POINT IS ON SHEET 14A

CCU PROJECT NUMBER: 23-1026

PHASE 1A RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

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ROAD B - PLAN & PROFILE

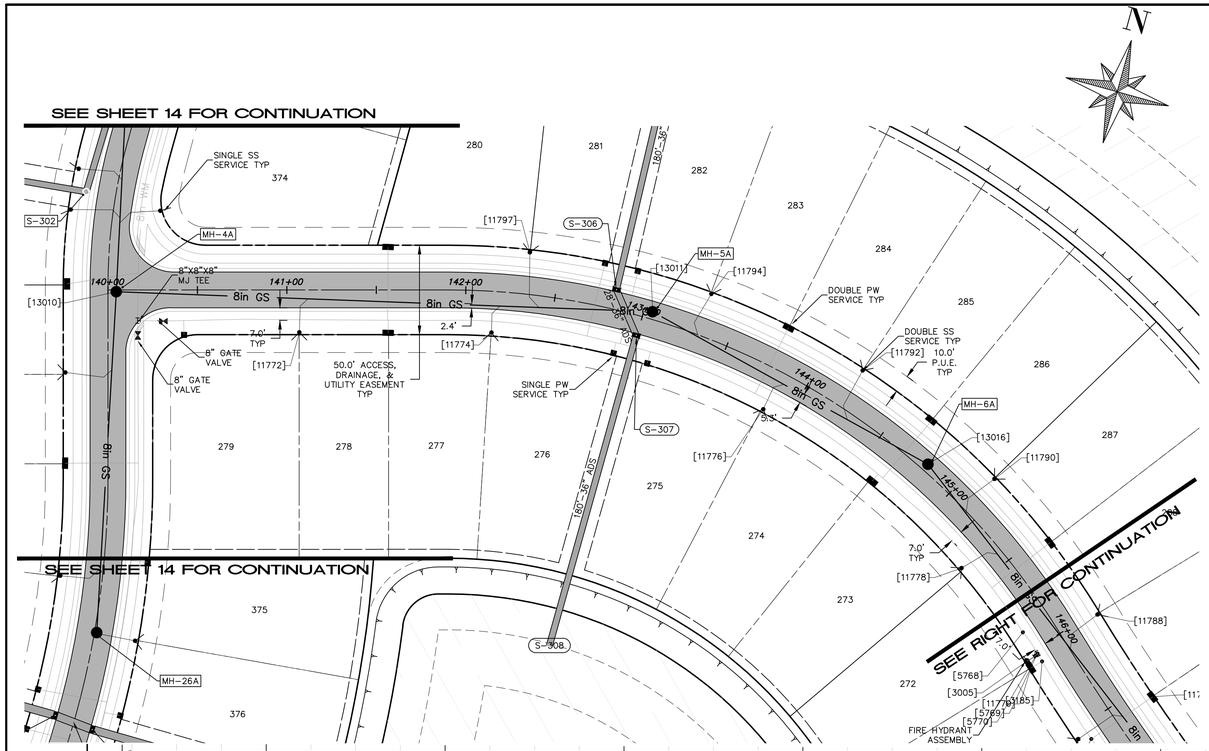
CORAL LAKES - PHASE I

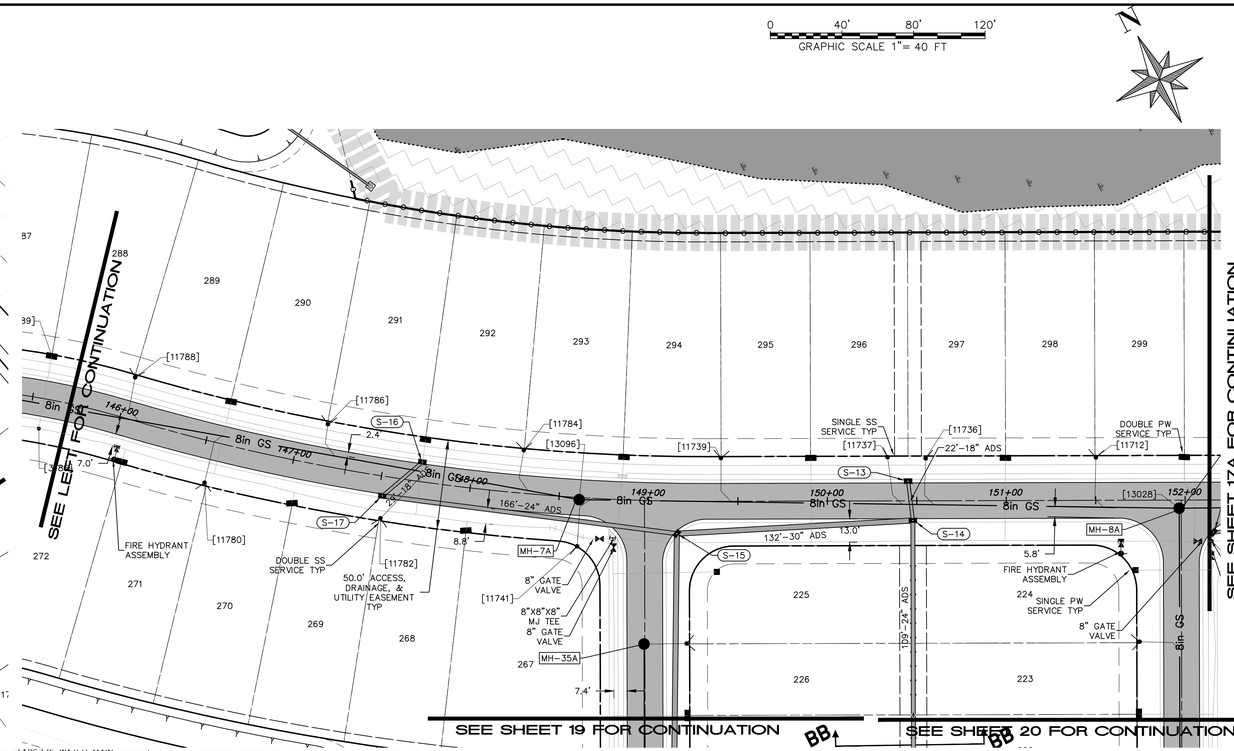
CHARLOTTE COUNTY, FLORIDA

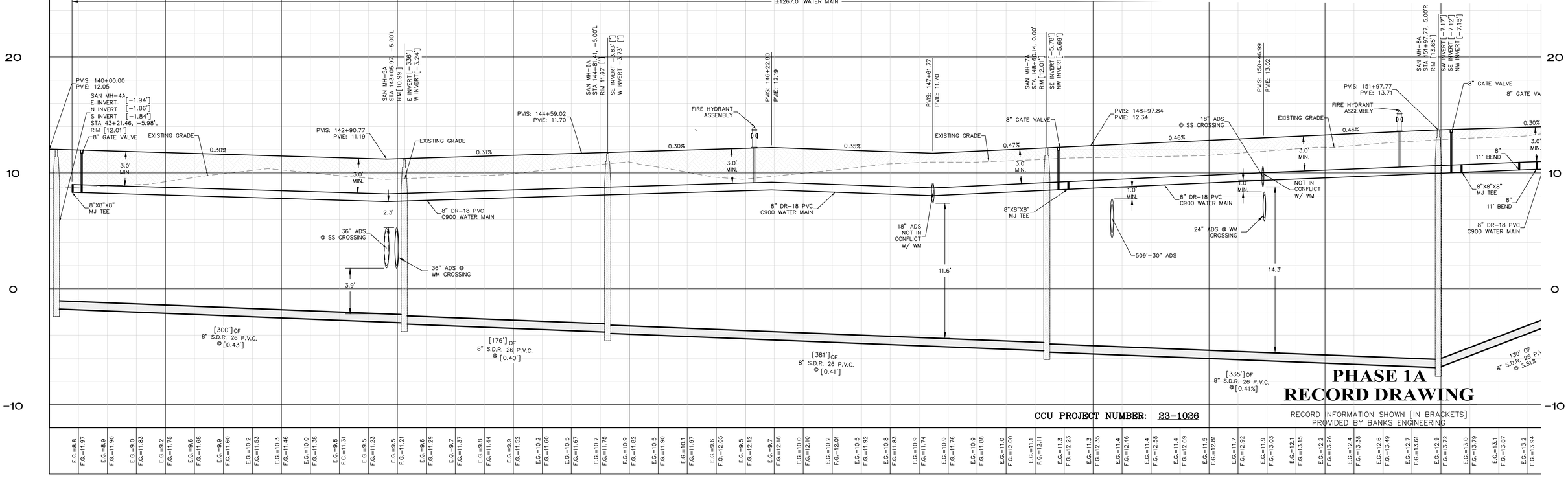
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	14B

CORAL LAKES - PHASE I

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PHASE 1A
RECORD DRAWING

CCU PROJECT NUMBER: 23-1026

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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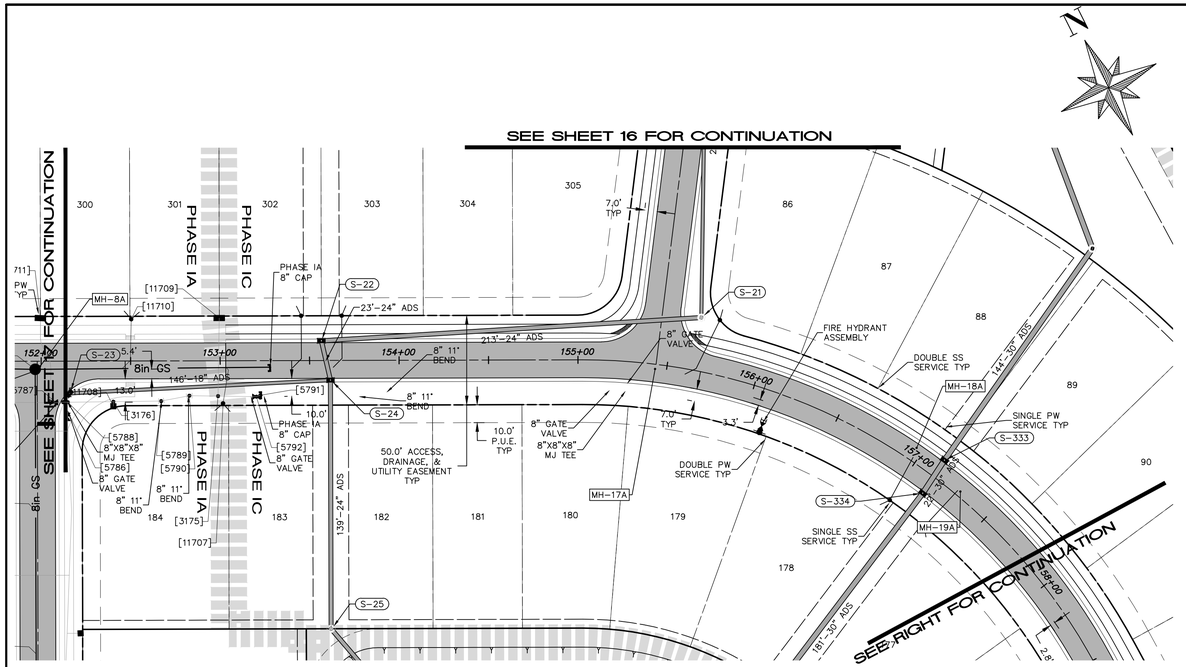
ROAD E - PLAN & PROFILE

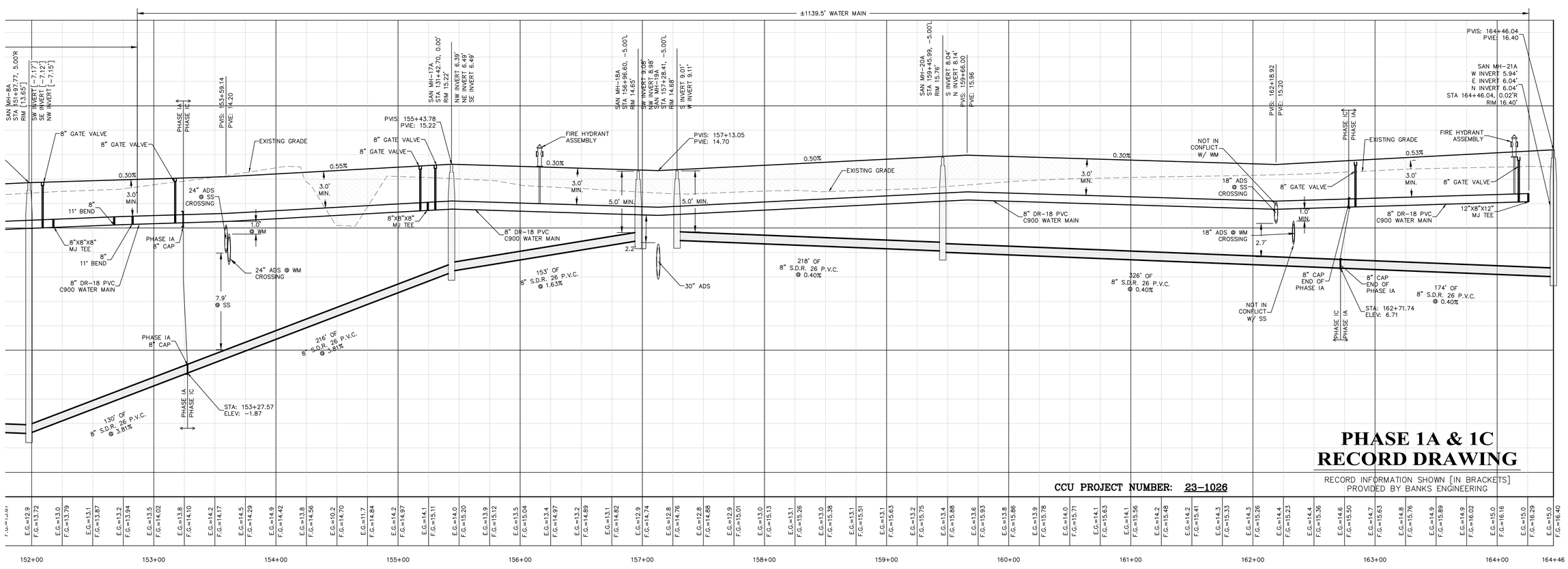
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	17

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PHASE 1A & 1C
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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111 S. ARMENIA AVENUE, SUITE 201
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ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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ROAD E - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	17A

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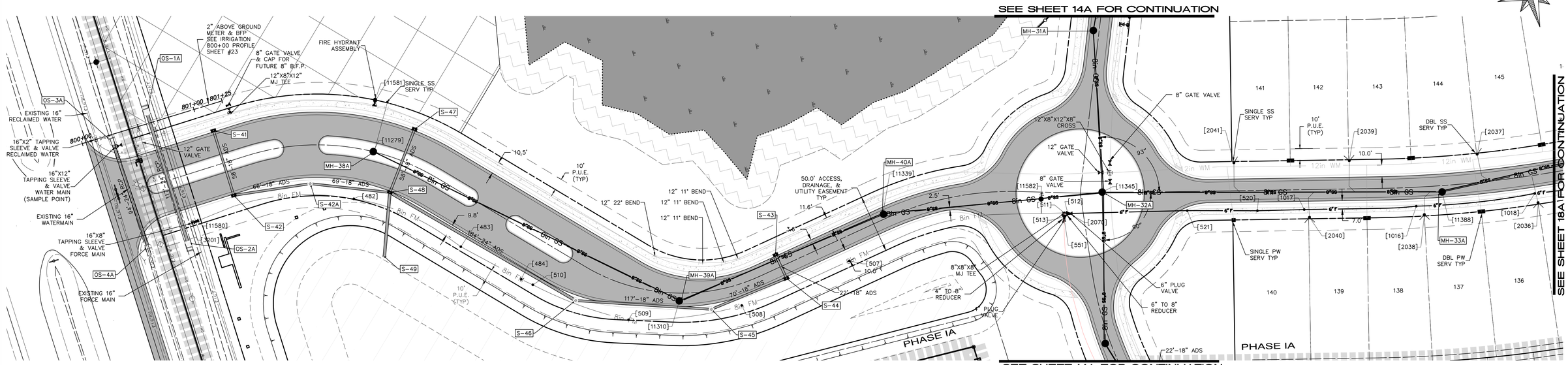
CORAL LAKES - PHASE I

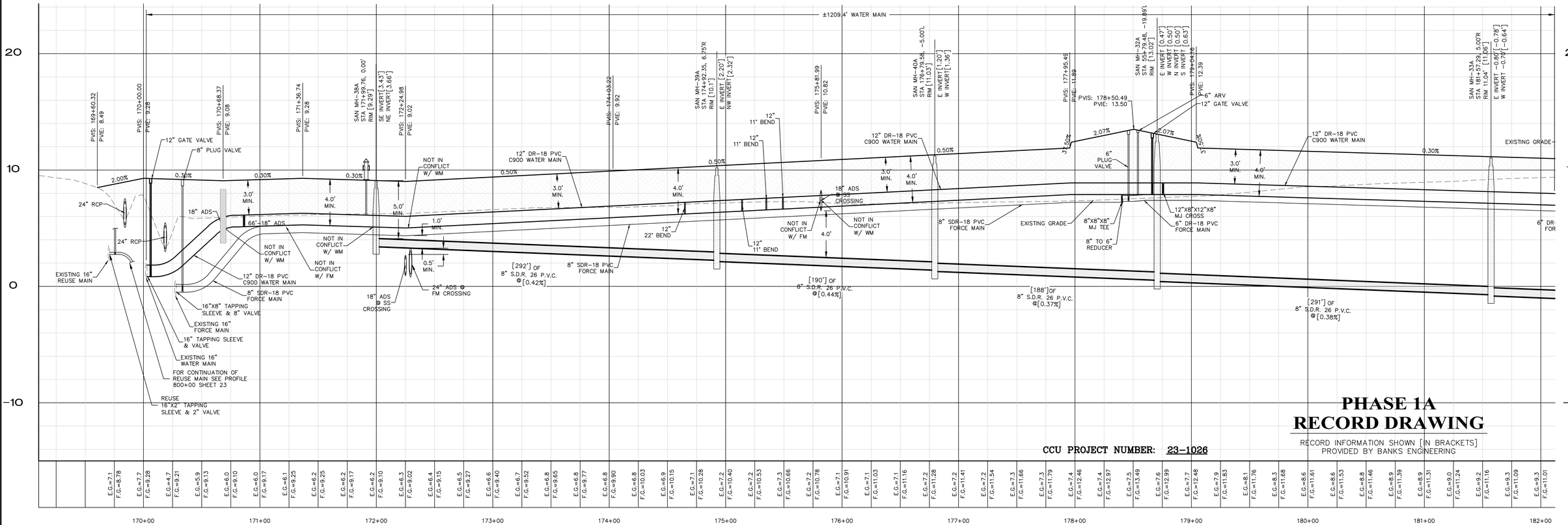
RECORD FORCEMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
3201	11580	3.6'
11580	511	787.2
511	512	3.1'
512	2070	1.7'
2070	1012*	1077.8'

*POINT IS ON SHEET 18A

0 40' 80' 120'
GRAPHIC SCALE 1" = 40 FT

N





PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
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ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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SURVEY LICENSE # LB 6690
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FL LIC #82437

ROAD F - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	18

CORAL LAKES - PHASE I

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RECORD FORCEMAIN POINT TO POINT TABLE		
FROM	TO	DISTANCE
*2070	10012	1077.8'
10012	10011	3.5'
10011	LS	0.0'

*POINT IS ON SHEET 18

GRAPHIC SCALE 1"= 40 FT (0, 40', 80', 120')

N

CORAL LAKES - PHASE I

SEE SHEET 19 FOR CONTINUATION

SEE SHEET 20 FOR CONTINUATION

SEE SHEET 18 FOR CONTINUATION

SEE SHEET 18B FOR CONTINUATION

PHASE 1A

PHASE 1B

PHASE 1C

12" GATE VALVE
8" GATE VALVE
12"X8"X12" MJ TEE
FIRE HYDRANT ASSEMBLY
50.0' ACCESS, DRAINAGE, & UTILITY EASEMENT TYP
32"-18" ADS
DBL SS SERV TYP
12" 11° BEND
8" 11° BEND
12"X1" SERVICE SADDLE W/ CORP STOP & CASING
10' P.U.E. (TYP)
18"-24" ADS
8" GATE VALVE
12"X8"X12" MJ TEE
12" GATE VALVE
SINGLE PW SERV TYP
31'-36" ADS
180'-36" ADS
176'-36" ADS
SINGLE PW SERV TYP
DBL PW SERV TYP
SINGLE SS SERV TYP
6" 45° BEND
35.0' P.U.E.
GATE PER CCU DETAIL
27'-18" ADS
30"-18" ADS
3/4" ABOVE GROUND METER & BFP
ABOVE GROUND VALVES SEE LIFT STATION DETAIL SHEET 23 & 26
MASTER
GENERATOR PAD
FENCE PER CCU DETAIL
ANTENNA
CONTROL PANEL
ODOR CONTROL
97'-18" ADS
36"-36" ADS

PHASE 1A RECORD DRAWING

CCU PROJECT NUMBER: 23-1026

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

±1298.1' WATER MAIN

SAN MH-34A STA 186+45.17, -4.14'L RIM [15.62'] E INVERT [-3.30'] N INVERT [-3.35'] W INVERT [-3.16']

SAN MH-10A STA 189+45.00, -4.93'L RIM [14.62'] S INVERT [-11.52'] NE INVERT [-11.48'] E INVERT [-11.41'] W INVERT [-11.44']

SAN MH-23A STA 192+47.74, 5.00'R RIM [15.21'] W INVERT [2.87'] E INVERT [3.03']

SAN MH-22A STA 193+83.53, 0.00' RIM [15.36'] W INVERT [3.56'] E INVERT [3.74']

PVIS: 184+21.77 PVIE: 11.33

PVIS: 185+37.84 PVIE: 11.93

PVIS: 186+55.90 PVIE: 12.28

PVIS: 187+95.40 PVIE: 12.70

PVIS: 189+45.76 PVIE: 14.00

PVIS: 191+87.62 PVIE: 15.67

PVIS: 193+41.28 PVIE: 15.20

PVIS: 183+05.13 PVIE: 10.70

12" DR-18 PVC C900 WATER MAIN

0.54%

0.52%

0.30%

0.86%

0.69%

FIRE HYDRANT ASSEMBLY

EXISTING GRADE

18" ADS @ SS CROSSING

12" GATE VALVE

18" ADS

12"X8"X12" MJ TEE

12" 11° BEND

3.0' MIN.

4.0' MIN.

1.0' MIN.

0.5' MIN. @ FM

@ WM

NOT IN CONFLICT W/ WM

NOT IN CONFLICT W/ FM

NOT IN CONFLICT WITH FM

6" DR-18 PVC FORCE MAIN

NOT IN CONFLICT W/ FORCE MAIN

FORCE MAIN CONTINUES TO LIFT STATION

24" ADS @ WM CROSSING

36" ADS @ FM CROSSING

36" ADS @ WM CROSSING

36" ADS @ SS CROSSING

2.7' @ SS

9.2'

19.2'

1.8'

1.4'

0.68%

0.30%

36" ADS @ SS

36" ADS @ WM

[496'] OF 8" S.D.R. 26 P.V.C. @ [0.48%]

[288'] OF 8" S.D.R. 26 P.V.C. @ [2.83%]

[298'] OF 8" S.D.R. 26 P.V.C. @ [4.79%]

[143'] OF 8" S.D.R. 26 P.V.C. @ [0.37%]

E.G.=9.3 F.G.=11.01 | E.G.=9.4 F.G.=10.94 | E.G.=9.6 F.G.=10.86 | E.G.=9.8 F.G.=10.79 | E.G.=9.9 F.G.=10.72 | E.G.=10.1 F.G.=10.81 | E.G.=10.1 F.G.=10.94 | E.G.=10.2 F.G.=11.08 | E.G.=10.3 F.G.=11.21 | E.G.=10.3 F.G.=11.34 | E.G.=10.4 F.G.=11.47 | E.G.=10.5 F.G.=11.60 | E.G.=10.6 F.G.=11.73 | E.G.=10.7 F.G.=11.86 | E.G.=10.7 F.G.=11.96 | E.G.=10.8 F.G.=12.04 | E.G.=10.8 F.G.=12.11 | E.G.=10.9 F.G.=12.19 | E.G.=11.0 F.G.=12.26 | E.G.=11.1 F.G.=12.34 | E.G.=11.1 F.G.=12.41 | E.G.=11.2 F.G.=12.49 | E.G.=11.2 F.G.=12.56 | E.G.=11.2 F.G.=12.64 | E.G.=11.2 F.G.=12.74 | E.G.=11.4 F.G.=12.96 | E.G.=11.6 F.G.=13.17 | E.G.=11.9 F.G.=13.39 | E.G.=12.1 F.G.=13.60 | E.G.=12.3 F.G.=13.82 | E.G.=12.4 F.G.=14.03 | E.G.=12.5 F.G.=14.20 | E.G.=12.7 F.G.=14.37 | E.G.=12.8 F.G.=14.55 | E.G.=12.9 F.G.=14.72 | E.G.=13.0 F.G.=14.89 | E.G.=13.1 F.G.=15.06 | E.G.=13.3 F.G.=15.24 | E.G.=13.5 F.G.=15.41 | E.G.=13.7 F.G.=15.58 | E.G.=13.9 F.G.=15.63 | E.G.=14.1 F.G.=15.55 | E.G.=14.3 F.G.=15.48 | E.G.=14.4 F.G.=15.40 | E.G.=14.4 F.G.=15.33 | E.G.=14.3 F.G.=15.25 | E.G.=14.2 F.G.=15.26 | E.G.=14.2 F.G.=15.43 | E.G.=14.3 F.G.=15.60 | E.G.=14.3 F.G.=15.77 | E.G.=14.4 F.G.=15.94 | E.G.=14.5 F.G.=16.11 | E.G.=14.7 F.G.=16.28

182+00 | 183+00 | 184+00 | 185+00 | 186+00 | 187+00 | 188+00 | 189+00 | 190+00 | 191+00 | 192+00 | 193+00 | 194+00 | 195+00

PREPARED FOR:

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NO.	DATE	REVISION DESCRIPTION	BY

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RYAN W. POWERS, P.E.
FL LIC #82437

ROAD F - PLAN & PROFILE

CORAL LAKES - PHASE I

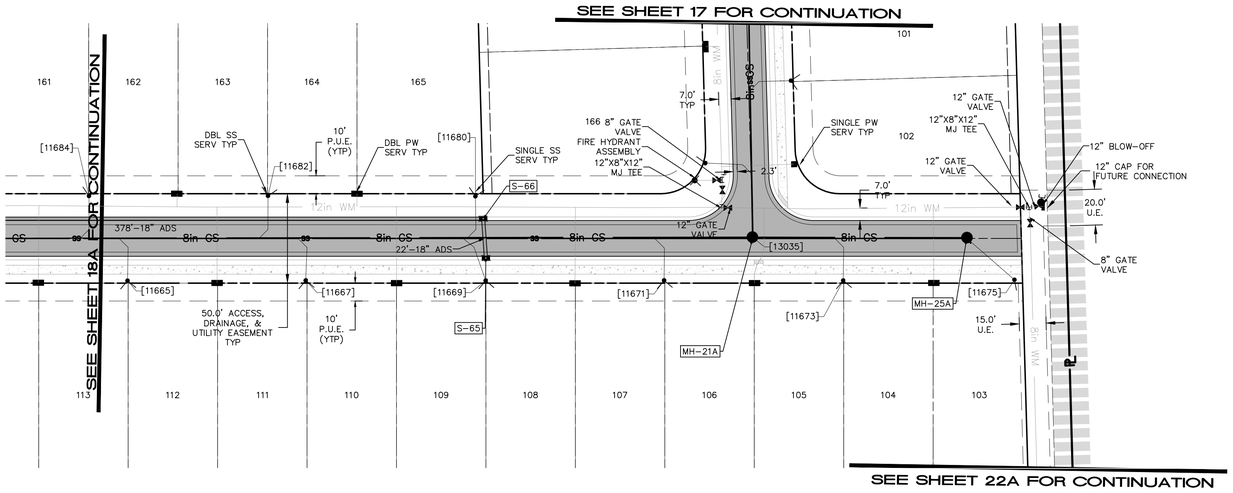
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	18A

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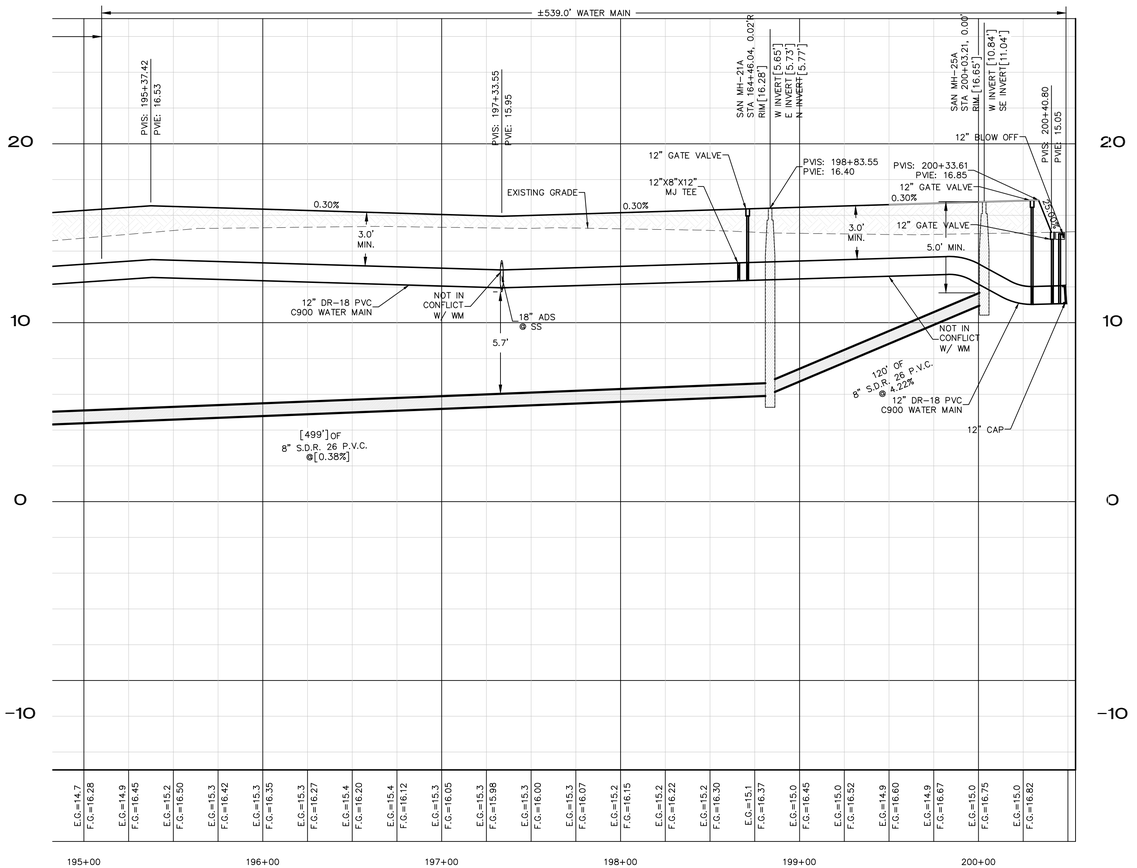
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RECORD POINT TO POINT TABLE		
FROM	TO	DISTANCE
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8970	8964	163.4'
8964	8967	4.9'
8967	8965	5.4'
8965	8968	2.6'

*POINT IS ON SHEET 18B



CCU PROJECT NUMBER: 23-1026

PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

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FL LIC #82437

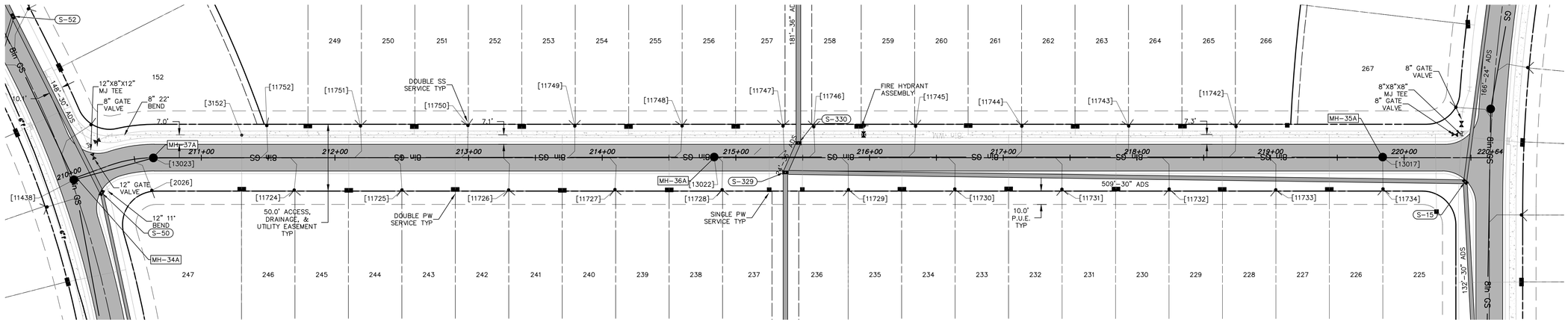
ROAD F - PLAN & PROFILE

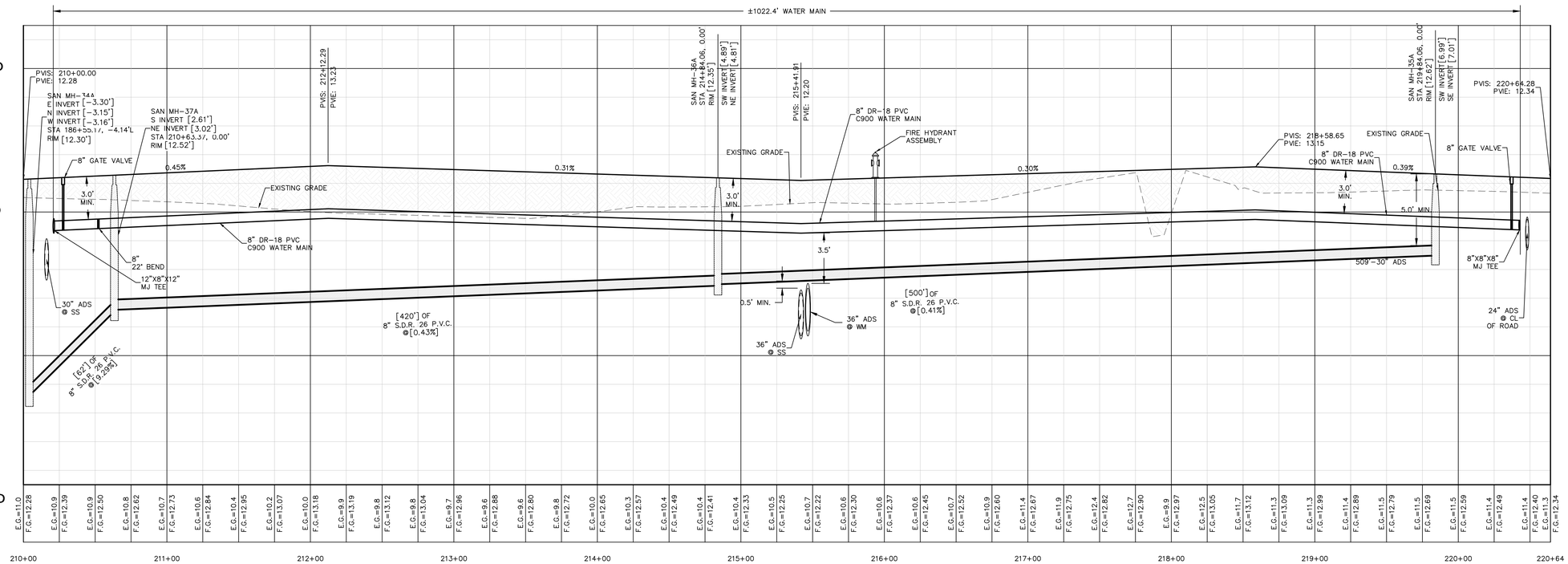
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4', HORZ:1"=40'	18B

S:\JOBS\4570\CIVIL\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-18-ROAD F -PP.DWG 4/17/2025 1:51 PM TODD VANA





PHASE 1A RECORD DRAWING

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CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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ROAD G - PLAN & PROFILE

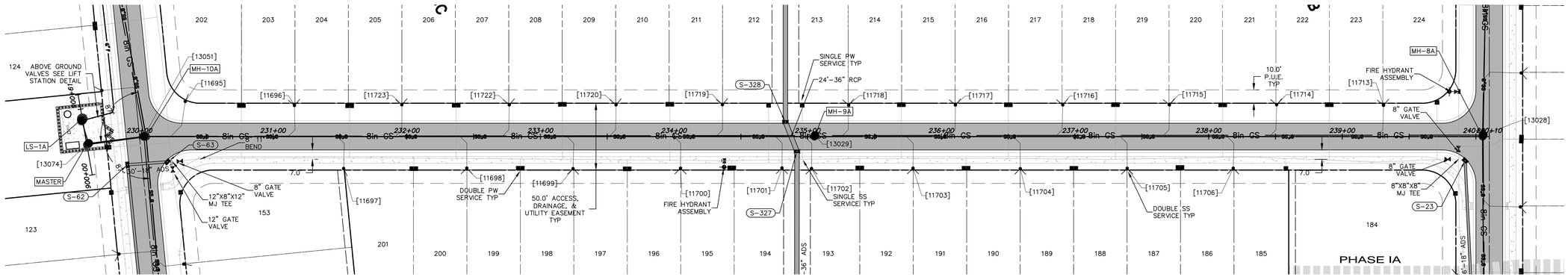
CORAL LAKES - PHASE I

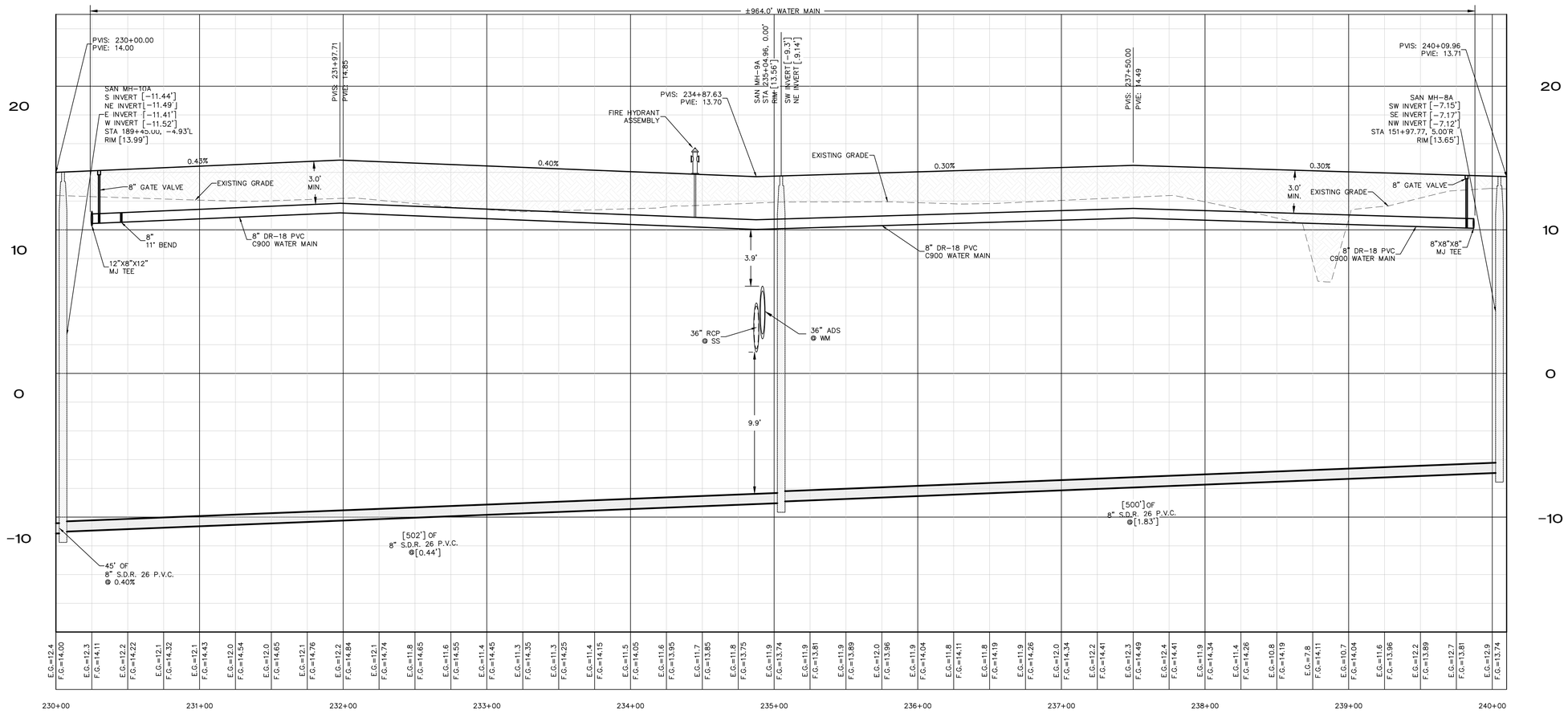
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	19

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0 40' 80' 120'
GRAPHIC SCALE 1" = 40 FT





PHASE 1A
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
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ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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PHONE: (941) 625-1165 FAX: (941) 625-1149

ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

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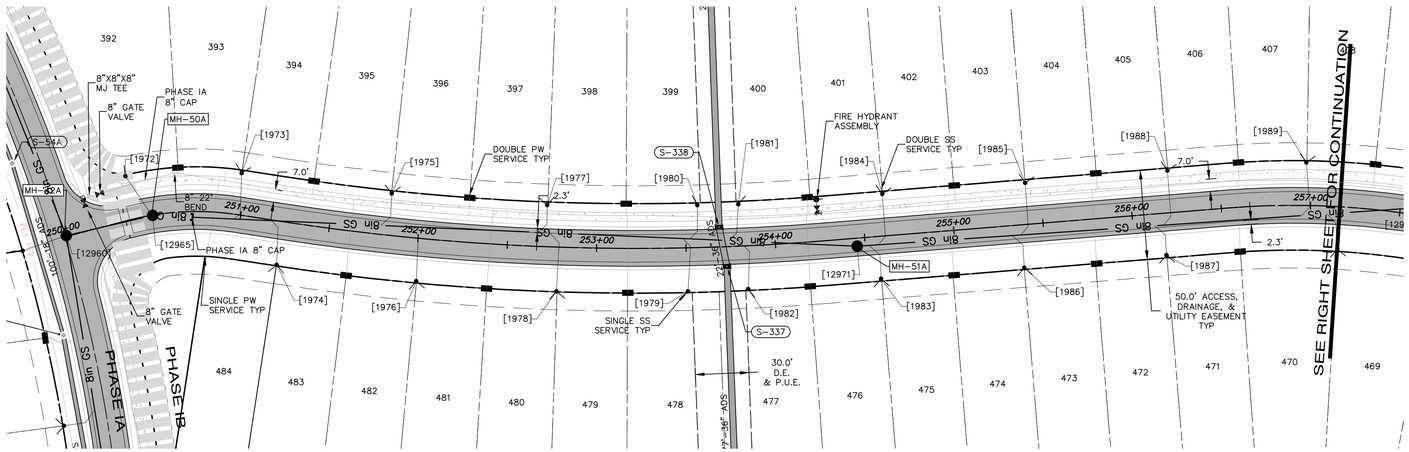
RYAN W. POWERS, P.E.
FL LIC #52437

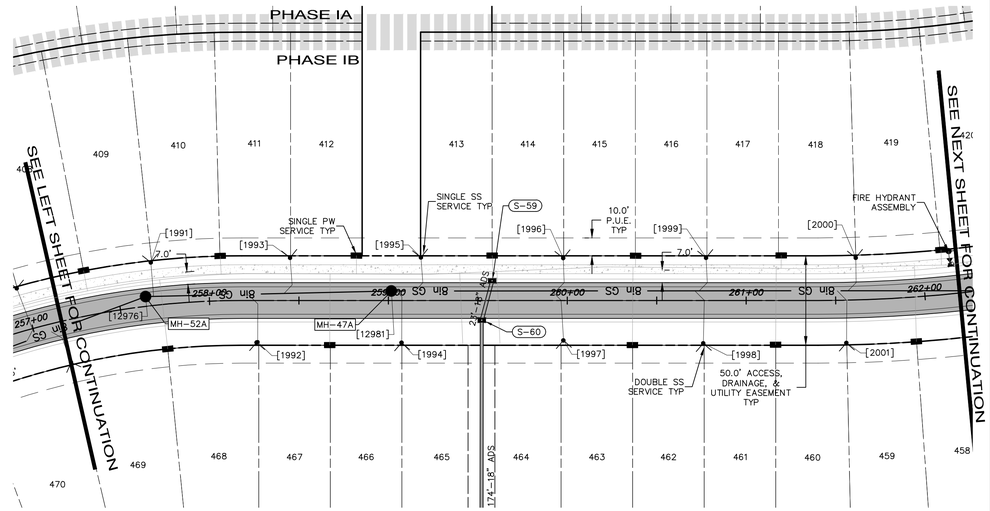
ROAD H - PLAN & PROFILE
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	20

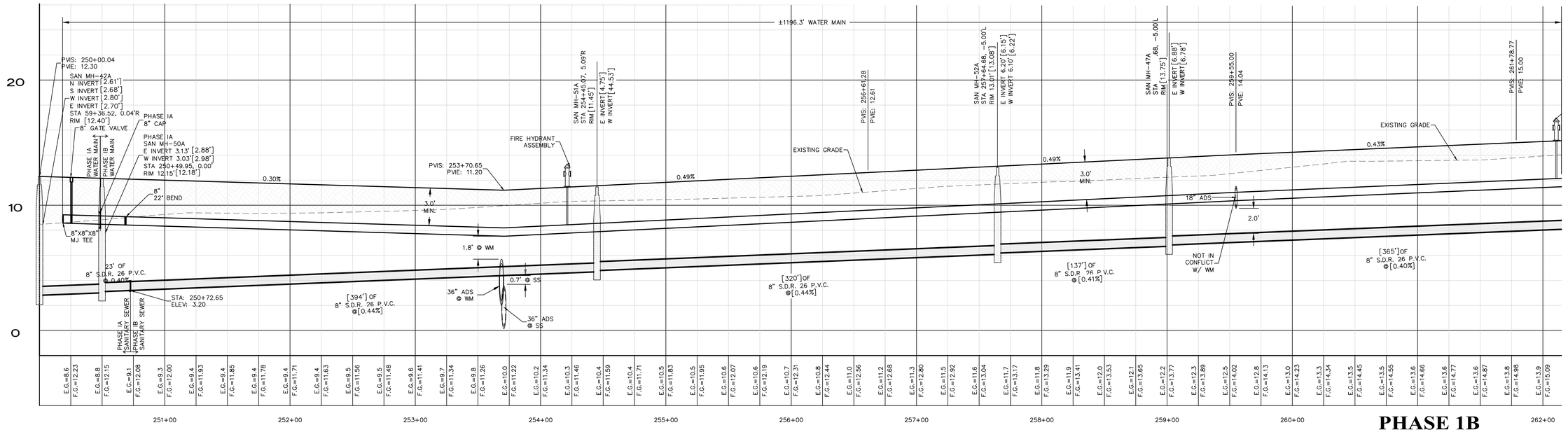
CORAL LAKES - PHASE I

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0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT



PHASE 1B RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY
1	2-27-24	REVISED PER SHOP DWG REVIEW & MOVED SERVICES TO ROW PER CCU	DCT

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ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

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FL LIC #82437

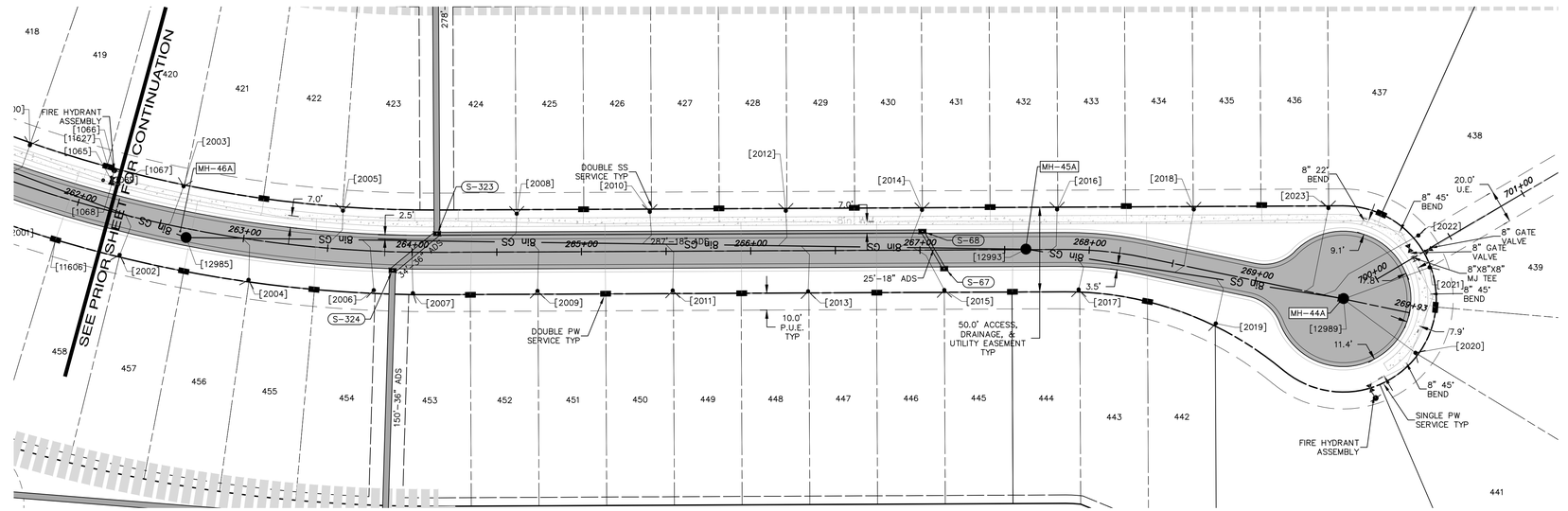
ROAD I PLAN & PROFILE

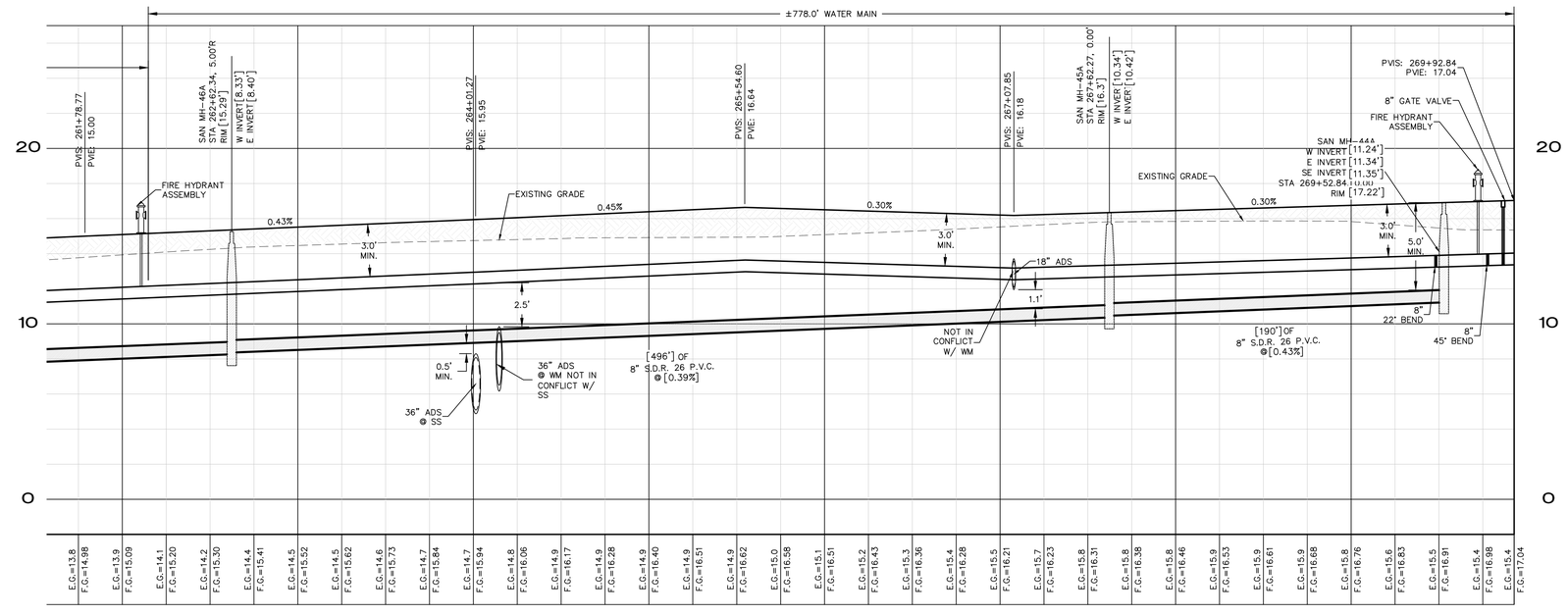
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	21

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0 40' 80' 120'
GRAPHIC SCALE 1"= 40 FT

N

CORAL LAKES - PHASE I

PHASE 1B
RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

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TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

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FL LIC #82437

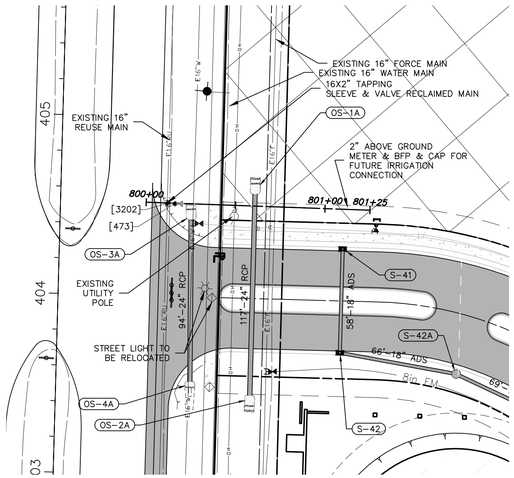
ROAD I PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

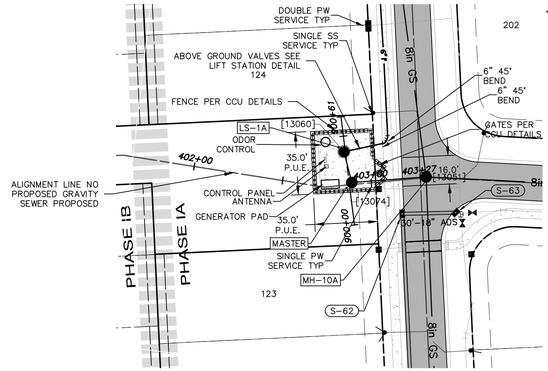
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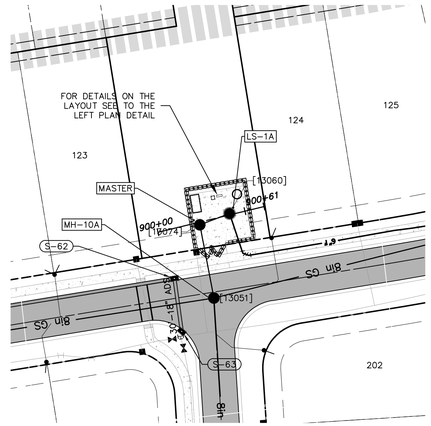
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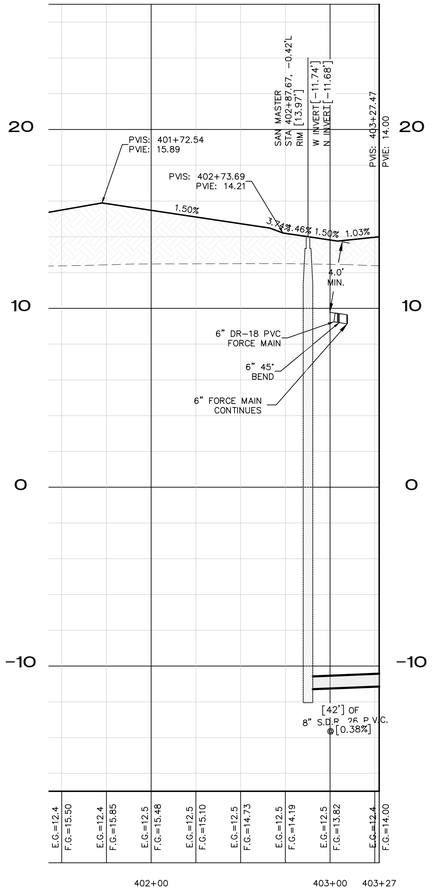
RE-USE MAIN CONNECTION

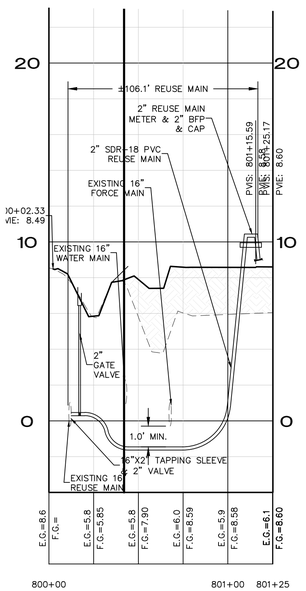
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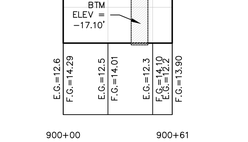




LIFT STATION CONNECTION







RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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Serving The State Of Florida

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PORT CHARLOTTE, FLORIDA 33952
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ENGINEERING LICENSE # EB 6469
SURVEY LICENSE # LB 6690

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RYAN W. POWERS, P.E.
FL LIC #82437

LIFT STATION & RE-USE CONNECTION - PLAN & PROFILE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	VERT:1"=4' HORZ:1"=40'	23

CORAL LAKES - PHASE I

S:\JOBS\4570\CIVIL\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-23-RE-USE MAIN CONNECTION.DWG 4/17/2025 1:55 PM TODD HAAS

4585S - DAVID BOULEVARD APARTMENTS

TABLE 1 HORIZONTAL BENDS AND ELBOWS LENGTH OF RESTRAINED JOINT PIPE (FEET)				
NOMINAL PIPE DIAMETER	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4	14	6	3	2
6	20	9	4	2
8	26	11	6	3
10	30	13	7	4
12	36	15	8	4
16	47	20	10	5
20	57	24	12	6
24	66	28	13	7
30	79	33	16	8
36	91	38	19	9

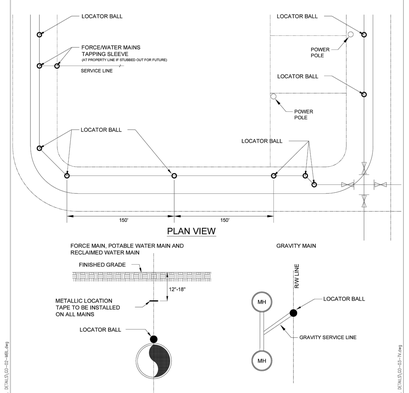
TABLE 2 TEES AND WYES	
NOMINAL PIPE DIAMETER OF BRANCH RUN (IN INCHES)	RESTRAINED LENGTH ALONG BRANCH RUN (IN FEET)
4	11
6	21
8	32
10	48
12	65
16	97
20	128
24	156
30	196
36	233

TABLE 3 REDUCERS		
NOMINAL PIPE DIAMETER		RESTRAINED LENGTH ALONG PIPE (IN FEET)
LARGE END	SMALL END	
6	4	33
8	6	35
10	4	81
10	6	61
10	8	34
12	4	103
12	6	86
12	8	63
12	10	35
16	12	65
20	16	66
24	20	66
30	24	94
36	30	95

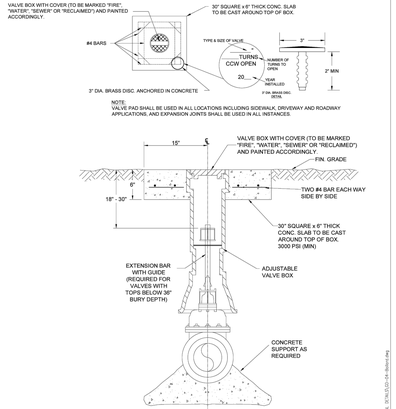
TABLE 4 DEAD ENDS	
NOMINAL PIPE DIAMETER	RESTRAINED LENGTH ALONG PIPE (IN FEET)
4	45
6	63
8	83
10	100
12	118
16	153
20	187
24	220
30	267
36	313

NOTES : (ALL TABLES)
1. FITTINGS SHALL BE RESTRAINED JOINT UNLESS OTHERWISE NOTED.
2. ALL PIPE SHALL BE RESTRAINED IN ACCORDANCE WITH THESE TABLES OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
3. WHERE TWO (2) OR MORE FITTINGS ARE TOGETHER, RESTRAIN JOINTS IN ACCORDANCE WITH FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. RESTRAINT TABLES APPLY TO TEST PRESSURES OF 150 PSI OR LESS.
5. FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUES BY A FACTOR OF 1.5.
6. LENGTH OF RESTRAINED PIPE INDICATED IN TABLES 1 & 4 SHALL BE THE LENGTH OF PIPE ON EACH SIDE OF FITTING OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
7. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 2 SHALL BE THE LENGTH OF PIPE ALONG BRANCH OF PIPE ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER. PIPE ON BOTH SIDES OF BRANCH SHALL HAVE A MINIMUM LAYING LENGTH OF 10 FEET.
8. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 3 SHALL BE THE LENGTH OF PIPE ON LARGE END ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.

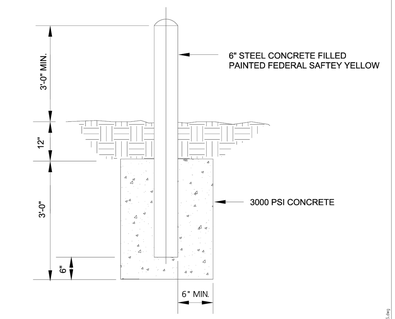
DATE: 11/01/2011	RESTRAINT TABLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-01-RT.DWG



DATE: 11/01/2011	MARKER BALL AND METALLIC LOCATION TAPE INSTALLATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-02-MBL.dwg

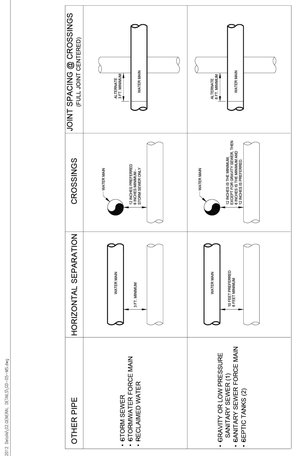


DATE: 11/01/2011	TYPICAL VALVE INSTALLATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-03-TV.dwg



NOTE: SITE LOCATION, AND THE INSTALLATION TO BE PROTECTED, MAY REQUIRE A LARGER DIAMETER PIPE AND CONCRETE ANCHOR.

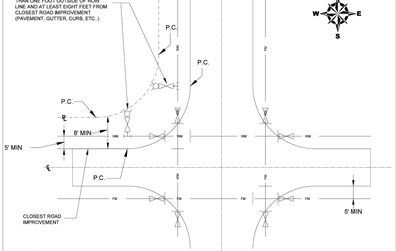
DATE: 11/01/2011	TYPICAL BOLLARD	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-04
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-04-Bollard.dwg



NOTES:
1. ALL CAST IRON GRAVITY TYPE SANITARY SEWERS WHERE THE BOTTOM OF THE WATER MAIN IS LESS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER SHALL BE ENCASED IN CONCRETE.
2. THE SEPARATION BETWEEN POTABLE WATER, RECLAIMED WATER AND OSTDS (SEPTIC TANKS) SHALL BE 10 FEET.
3. WATER MAIN SHALL CROSS ABOVE OTHER PIPE. WHEN WATER MAIN SHALL BE BELOW OTHER PIPE THE SEPARATION SHALL BE 18 INCHES MINIMUM.

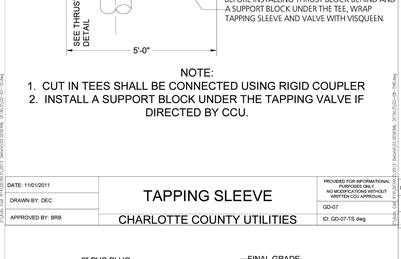
WATER AND SEWER LINE AND SEPTIC TANK SEPARATIONS
IN ACCORDANCE WITH F.A.C. RULE 62-555.314
N.T.S.

DATE: 11/01/2011	MAIN SEPARATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-05-MS.dwg



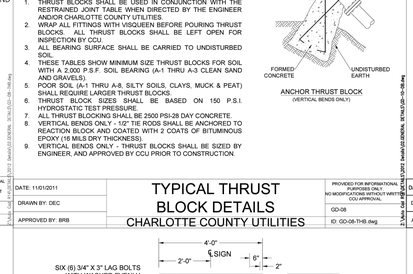
NOTES:
1. (P/L) = PROPERTY LINE, EASEMENT LINE OR RIGHT OF WAY LINE
2. ALL VALVES SHALL BE PLACED AT THE FITTING UNLESS APPROVED BY CCU.
3. ALL MAINS SHALL BE LOCATED A MINIMUM OF 5'-0" FROM EDGE OF ROADWAY IMPROVEMENTS (PAVEMENT, GUTTERS, CURBS, ETC..) UNLESS APPROVED BY CCU.
4. ALL WATER LINES SHALL BE LOCATED ON THE NORTH SIDE OF EAST-WEST STREETS AND ON THE WEST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.
5. ALL RECLAIMED WATER AND SEWER FORCE MAINS SHALL BE LOCATED ON THE SOUTH SIDE OF EAST-WEST STREETS AND ON THE EAST SIDE OF NORTH-SOUTH STREETS UNLESS APPROVED BY CCU.

DATE: 11/01/2011	ALIGNMENT OF MAINS, VALVES, AND HYDRANTS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-06
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-06-MA.dwg



NOTE:
1. CUT IN TEES SHALL BE CONNECTED USING RIGID COUPLER
2. INSTALL A SUPPORT BLOCK UNDER THE TAPPING VALVE IF DIRECTED BY CCU.

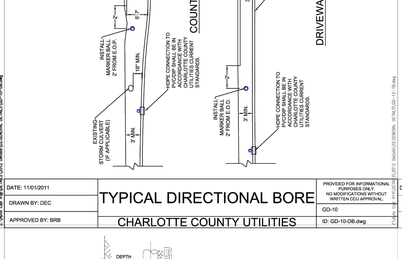
DATE: 11/01/2011	TAPPING SLEEVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-07
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-07-TS.dwg



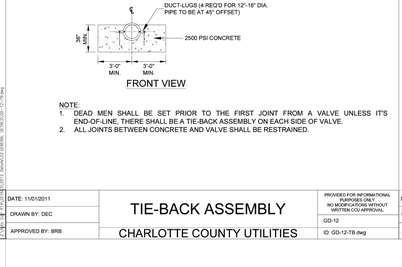
THRUST BLOCK BEARING AREA TABLE (SQ. FT.)					
SIZE OF PIPE	TEES & PLUGS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2.5	2.5	1.5	1.0	1.0
6"	5.0	5.0	3.0	1.5	1.0
8"	9.0	9.0	5.0	2.5	1.5
10"	14.0	14.0	7.5	4.0	2.0
12"	20.0	20.0	11.0	5.5	3.0
14"	27.0	27.0	15.0	7.5	4.0
16"	35.0	35.0	19.0	10.0	5.0

NOTE:
1. THRUST BLOCKS SHALL BE USED IN CONJUNCTION WITH THE RESTRAINED JOINT TABLE WHEN DIRECTED BY THE ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES.
2. WRAP ALL FITTINGS WITH VISQUEEN BEFORE POURING THRUST BLOCKS. ALL THRUST BLOCKS SHALL BE LEFT OPEN FOR INSPECTION BY CCU.
3. ALL BEARING SURFACE SHALL BE CARRIED TO UNDISTURBED SOIL.
4. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR SOIL WITH A 2,000 P.S.F. SOIL BEARING (A-1 THRU A-3 CLEAN SAND AND GRAVELS)
5. POOR SOIL (A-1 THRU A-8, SILTY SOILS, CLAYS, MUCK & PEAT) SHALL REQUIRE LARGER THRUST BLOCKS.
6. THRUST BLOCK SIZES SHALL BE BASED ON 150 P.S.I. HYDROSTATIC TEST PRESSURE.
7. ALL THRUST BLOCKING SHALL BE 2500 PSI-28 DAY CONCRETE.
8. VERTICAL BENDS ONLY - 1/2" TIE RODS SHALL BE ANCHORED TO REACTION BLOCK AND COATED WITH 2 COATS OF BITUMINOUS EPOXY (16 MILS DRY THICKNESS).
9. VERTICAL BENDS ONLY - THRUST BLOCKS SHALL BE SIZED BY ENGINEER, AND APPROVED BY CCU PRIOR TO CONSTRUCTION.

DATE: 11/01/2011	TYPICAL THRUST BLOCK DETAILS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-08-THB.dwg

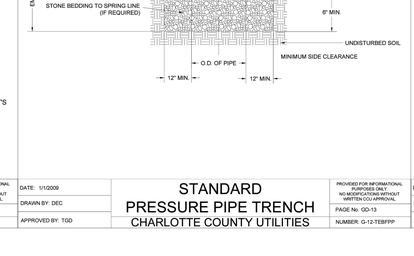


DATE: 11/01/2011	TYPICAL DIRECTIONAL BORE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-10
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-10-DB.dwg

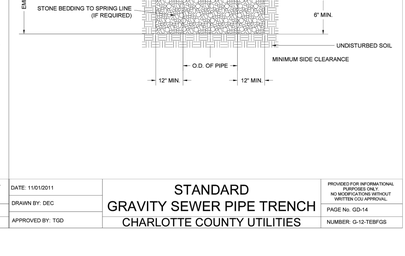


NOTE:
1. DEAD MEN SHALL BE SET PRIOR TO THE FIRST JOINT FROM A VALVE UNLESS IT'S END-OF-LINE. THERE SHALL BE A TIE-BACK ASSEMBLY ON EACH SIDE OF VALVE.
2. ALL JOINTS BETWEEN CONCRETE AND VALVE SHALL BE RESTRAINED.

DATE: 11/01/2011	TIE-BACK ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-12
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-12-TB.dwg



DATE: 1/1/2009	STANDARD PRESSURE PIPE TRENCH	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PAGE No. GD-13
APPROVED BY: TOD	CHARLOTTE COUNTY UTILITIES	NUMBER: G-12-TESFPP



DATE: 11/01/2011	STANDARD GRAVITY SEWER PIPE TRENCH	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PAGE No. GD-14
APPROVED BY: TOD	CHARLOTTE COUNTY UTILITIES	NUMBER: G-12-TESFGS

NOTE: MANUAL AIR RELEASE MAY BE USED FOR A BACTERIOLOGICAL SAMPLING POINT WITH A TEMPORARY EXTENSION TO 3' ABOVE GROUND. THIS MUST HAVE CCU APPROVAL OR BE SHOWN ON THE ENGINEERING PLANS. SEE TYPICAL BACTERIOLOGICAL SAMPLE POINT DETAIL.

DATE: 11/01/2011	MANUAL AIR RELEASE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-15
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-15-MAR.dwg

DATE: 11/01/2011	CCU PROJECT SIGN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-20
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-20-PS.dwg

DATE: 11/01/2011	TYPICAL UTILITY CROSSING	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-23
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-23-TUXING.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 1

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	24

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GENERAL NOTES:

1. CHARLOTTE COUNTY UTILITIES (CCU) STANDARD SPECIFICATIONS AND STANDARD DETAILS SHALL GOVERN ALL UTILITY WORK. UNDER CERTAIN CIRCUMSTANCES THE STANDARD SPECIFICATIONS AND/OR STANDARD DETAILS MAY BE MODIFIED BY THE SPECIAL PROVISION SECTION OF THE CONTRACT DOCUMENTS IN WHICH CASE THE SPECIAL PROVISIONS SHALL PREVAIL. WHEN A CONFLICT EXISTS AMONG THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF CCU SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED COUNTY AND STATE PERMITS PRIOR TO COMMENCING WORK AND SHALL KEEP ONE COPY OF ALL ISSUED PERMITS AT THE SITE AT ALL TIMES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL ASSURE COMPLIANCE WITH ANY OSHA, EPA, AND/OR OTHER FEDERAL OR STATE OF FLORIDA RULES, REGULATIONS OR OTHER REQUIREMENTS, AS EACH MAY APPLY.
4. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE ONE CURRENT COPY OF CCU SPECIFICATIONS AND DESIGN DETAILS AND ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING ENGINEERING DRAWINGS, SPECIFICATIONS, SPECIAL PROVISIONS, ETC. NO FIELD CHANGES OR DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR CCU WRITTEN APPROVAL.
5. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" PRIOR TO START OF CONSTRUCTION. THE EXISTING UTILITIES SHOWN ON THE ENGINEERING DRAWINGS ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL MARK LOCATIONS OF UTILITIES BY PAINTING AND/OR FLAGGING THE UTILITY ALIGNMENT. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION(S) TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS AND ORDINANCES COVERING THE PROTECTION OF SUCH WORK AND THE SAFETY MEASURES TO BE EMPLOYED THEREIN.
6. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BRING ENGINEERING DRAWING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
7. THE CONTRACTOR SHALL CONTACT THE APPLICABLE COUNTY DEPARTMENTS AND ALL OTHER UTILITY COMPANIES A MINIMUM OF 48-HOURS PRIOR TO START OF CONSTRUCTION. THE CONSTRUCTION MANAGEMENT OFFICE OF CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) CAN BE REACHED AT 941-575-3600 AND CCU AT 941- 764-4515.
8. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY CUSTOMERS 48 HOURS IN ADVANCE IF WATER AND/OR SEWER SERVICE WILL BE INTERRUPTED DURING CONSTRUCTION.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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6. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES OR IN THE UPPER SIX INCHES OF ALL BACKFILL AND FILLS SHALL NOT CONTAIN ANY STONES OR ROCKS LARGER THAN ONE INCH IN DIAMETER. EXISTING BACKFILL MATERIAL SHALL MEET THE ABOVE REQUIREMENTS AS APPROVED BY CCU. BROKEN CONCRETE SHALL NOT BE USED. OUTSIDE THE PIPE ZONE, FILL MATERIAL CONTAINING LIME ROCK SHALL HAVE SUFFICIENT SAND TO FILL THE VOIDS IN THE LIME ROCK. NO STONES OR ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE USED IN ANY BACKFILL.
7. MATERIAL SUITABLE FOR BACKFILL IN A PROPERLY DEWATERED TRENCH SHALL NOT BE EXPANSIVE NOR HAVE HIGH ORGANIC CONTENT; SHALL BE FREE OF DEBRIS, LUMPS AND CLODS; AND SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. MAXIMUM LIQUID LIMIT SHALL NOT EXCEED 12 AS DETERMINED BY ASTM D423.
   b. MAXIMUM PLASTICITY INDEX SHALL NOT EXCEED 35 AS DETERMINED BY ASTM D424.
   c. NOT MORE THAN 10% OF WEIGHT SHALL BE FINER THAN 74 MICRON (NO. 200) U.S. STANDARD SIEVE.
8. READY-MIX FLOWABLE FILL OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED AS AN ALTERNATIVE TO COMPACTED SOIL WITH THE APPROVAL OF CCU OR WHERE SHOWN ON THE ENGINEERING DRAWINGS. APPLICATIONS FOR THE MATERIAL INCLUDE BEDDINGS, ENCASEMENTS, CLOSURES FOR TANKS AND PIPES, AND GENERAL BACKFILL APPLICATIONS FOR TRENCHES AND ABUTMENTS. FLOWABLE FILL SHALL BE DESIGNED TO BE EXCAVATED AND PUMPED FOR APPLICATIONS WHERE STRENGTH IS MORE IMPORTANT THAN EXCAVATABLITY. IF FLOWABLE FILL IS SPECIFIED, ULTIMATE COMPRESSIVE STRENGTH SHALL BE LESS THAN 200 PSI AT 28 DAYS. FLOWABLE FILL IS NOT ACCEPTABLE FOR USE AS BACKFILL UNDER PAVEMENT, SIDEWALKS OR OTHER HARD SURFACES UNLESS OTHERWISE APPROVED IN WRITING BY AUTHORITY WITH JURISDICTION.
9. THE CONTRACTOR SHALL COMPACT ALL PORTIONS OF A TRENCH WITHIN 7.5' OF EXISTING EDGE OF PAVEMENT TO 98% DENSITY, AASHTO T-180, AND 95% FOR OTHER AREAS WITHIN THE RIGHT OF WAY. IF MORE STRINGENT COMPACTION REQUIREMENTS ARE SHOWN ON THE PLANS OR IN THE CONTRACT DOCUMENTS THEY SHALL PREVAIL.
10. COMPACTION OF BACKFILL MATERIAL UNDER PAVEMENT, SIDEWALKS, OR OTHER HARD SURFACES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
11. DENSITY TESTS SHALL BE PERFORMED FOR EACH 6" LIFT AT A MINIMUM OF ONE TEST PER 200 FEET OF TRENCH.
12. ALL WELL POINT HOLES UNDER PARKING, DRIVING, OR ROADWAY SURFACES SHALL BE BACKFILLED WITH CONCRETE IMMEDIATELY AFTER PULLING THE WELL POINTS. ALL OTHER WELL POINT HOLES SHALL BE BACKFILLED WITH FDOT NO. 89 STONE IMMEDIATELY AFTER REMOVING THE WELL POINTS UNLESS SPECIFIED OR DIRECTED TO DO OTHERWISE BY CCU.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-06
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

9. IF EXISTING VALVES OR FITTINGS ARE NOT RESTRAINED PROPERLY, THE CONTRACTOR SHALL RESTRAIN EXISTING UTILITIES IN ACCORDANCE WITH CCU REQUIREMENTS AS APPROVED BY CCU.
10. THE CONTRACTOR SHALL INSTALL INCIDENTAL FITTINGS REQUIRED TO RESOLVE CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES AS DETERMINED IN THE FIELD UNLESS OTHERWISE SHOWN ON THE PLANS. ALL MATERIALS, EQUIPMENT, AND LABOR TO RESOLVE INCIDENTAL CONFLICTS SHALL BE PAID FOR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.
11. ALL VALVES SHALL BE INSTALLED OUTSIDE OF PAVEMENTS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS OR APPROVED BY CCU.
12. THE CONTRACTOR SHALL INSTALL ALL OPEN TRENCH BURY PIPE IN AN UPRIGHT VERTICAL POSITION SO ALL LETTERING AND/OR STRIPING CAN BE READ FROM ABOVE. DIRECTIONAL BORE HDPE PIPE SHALL MEET THIS REQUIREMENT TO THE EXTENT POSSIBLE.
13. THE CONTRACTOR SHALL PUSH HOME ALL SPIGOT ENDS OF PVC AND/OR DI PIPE INTO BELL ENDS WITHIN 1/2" OF THE MANUFACTURER'S INSERTION MARK. IF PIPE IS CUT, THE CONTRACTOR SHALL REPLACE AN INSERTION MARK FROM NEW END OF PIPE AS SHOWN ON THE ORIGINAL PIPE.
14. ALL STAINLESS STEEL SHALL BE 316 AUSTENITIC, NON-MAGNETIC UNLESS OTHERWISE APPROVED BY CCU.
15. MARKER BALLS AND METALLIC LOCATION TAPE MUST BE INSTALLED IN ACCORDANCE WITH THE CCU STANDARD DETAILS AND CCU STANDARD SPECIFICATIONS.

DUCTILE IRON EXTERNAL PROTECTIVE COATING

ALL EXPOSED DUCTILE IRON UTILITIES SHALL BE PAINTED AS FOLLOWS IN ACCORDANCE WITH CCU FIELD PAINTING SPECIFICATIONS:

TYPE	COLOR DESIGNATION*
POTABLE WATER LINES	BLUE (PANTONE 287)
POTABLE WATER VALVE CAPS	BLUE (PANTONE 287)
FIRE LINES	ANSI SAFETY RED (PANTONE 485)
FIRE LINE VALVE CAPS	ANSI SAFETY RED (PANTONE 485)
WASTE WATER LINES	ANSI SAFETY GREEN (PANTONE 3415)
WASTE WATER VALVE CAPS	ANSI SAFETY GREEN (PANTONE 3415)
RECLAIMED WATER LINES	PURPLE (PANTONE 522C)
RECLAIMED WATER VALVE CAPS	PURPLE (PANTONE 522C)
FIRE HYDRANTS	ANSI SAFETY YELLOW (PANTONE 109)
FIRE HYDRANT VALVE CAPS	ANSI SAFETY YELLOW (PANTONE 109)

**Equivalent colors matching these colors are acceptable. Provide with Shop Drawing submittal direct color comparisons of color numbers available from manufacturer submitted.*

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MATERIALS AND METHODS OF CONSTRUCTION

ALL MATERIALS AND CONSTRUCTION METHODS USED IN THE CONSTRUCTION OF CCU'S UTILITIES INCLUDING BUT NOT LIMITED TO PIPING, VALVES, FITTINGS, RESTRAINTS, FIRE HYDRANTS, BLOW-OFFS, GRAVITY SEWER MAINS, MANHOLES, LIFT STATIONS, WATER AND SEWER SERVICES AND ALL ASSOCIATED APPURTENANCES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CCU'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.

RESTORATION

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED OR DAMAGED AREAS TO THE SAME OR BETTER CONDITION THAN THAT PRIOR TO THE START OF CONSTRUCTION.
2. ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER THAN THE ORIGINAL CONDITION AND GROUND COVER TO THE SATISFACTION OF THE LOCAL OR STATE AGENCY HAVING JURISDICTION.
3. ALL DISTURBED SWALE OR CANAL GRADES SHALL BE RESTORED TO THE GRADES AND ELEVATIONS THAT EXISTED PRIOR TO DISTURBANCE UNLESS OTHERWISE SPECFIED ON THE ENGINEERING DRAWINGS OR IN THE CONTRACT DOCUMENTS.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

1. OPEN ROAD CUTS REQUIRE PRIOR APPROVAL/PERMIT OF THE COUNTY, STATE, OR OTHER AGENCY HAVING JURISDICTION. CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION (DOT) RIGHT-OF-WAY SHALL CONFORM TO FLORIDA DOT CONSTRUCTION STANDARDS. CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) SHALL BE NOTIFIED 48-HOURS IN ADVANCE OF ALL APPROVED OPEN ROAD CUTS WITHIN COUNTY ROADWAYS/RIGHT-OF-WAYS.
2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT THE JOB SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE PERMIT AND SAFETY REQUIREMENTS FOR THE PROJECT. PROPER DETOUR SHALL BE PROVIDED AS NECESSARY.
3. EXCAVATION SHALL BE CONDUCTED IN A MANNER TO CAUSE THE LEAST POSSIBLE INTERRUPTION TO TRAFFIC. WHERE TRAFFIC MUST CROSS EXCAVATIONS, THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES AT STREET INTERSECTIONS AND DRIVEWAYS.
4. NOT MORE THAN ONE BLOCK OF EXCAVATION SHALL BE OPEN PER CREW AT ANY ONE TIME, AND THIS DISTANCE SHALL BE REDUCED IF CONSTRUCTION CAUSES EXCESSIVE INTERFERENCE WITH TRAFFIC. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC AND PEDESTRIAN SAFETY AT ALL TIMES. ALL EXCAVATED AND/OR STORED MATERIAL SHALL BE REMOVED FROM THE PAVEMENTS AT THE END OF THE WORK DAY UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL CARRY OUT THE WORK SO AS NOT TO DENY UNREASONABLE ACCESS TO PRIVATE PROPERTY. ALL ACCESS SHALL BE RESTORED AT THE END OF THE WORK DAY.
6. ALL UTILITY ACCESS MANHOLES, VALVES, AND FIRE HYDRANTS AND MAIL BOXES SHALL BE ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
7. ROAD SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD), FLORIDA DEPARTMENT OF TRANSPORTATION, OR OTHER GOVERNING AGENCY REQUIREMENTS.
8. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS DAMAGED DURING THE PROJECT.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

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DATE: 11/01/2011	STANDARD PRECAST MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-01-PCMH.DWG

TRAFFIC REGULATIONS AND MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND REQUIREMENTS OF THE STATE AND/OR ANY OTHER LOCAL AGENCY HAVING JURISDICTION.
2. WORK AFFECTING TRAFFIC ON ANY COUNTY STREET, ROADWAY, RIGHT-OF-WAY, BIKE PATH, OR SIDEWALK REQUIRES THE PREPARATION AND SUBMITTAL OF MAINTENANCE OF TRAFFIC (MOT) PLAN BY THE CONTRACTOR TO THE COUNTY ENGINEER. THE MOT PLAN SHALL BE APPROVED BY THE COUNTY ENGINEER OR HIS/HER DESIGNEE PRIOR TO THE START OF CONSTRUCTION.
3. WORK AFFECTING TRAFFIC ON ANY STATE ROAD OR HIGHWAY REQUIRES THE PREPARATION AND SUBMITTAL OF A MOT PLAN BY THE CONTRACTOR TO THE FDOT. THE MOT PLAN SHALL BE APPROVED BY THE FDOT PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE IN FULL COMPLIANCE WITH THE APPROVED MOT PLAN AT ALL TIMES.
5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL TRAFFIC CONTROL SIGNS AND DEVICES, BARRICADES, FLASHERS, ETC. IN WORKING CONDITION AT ALL TIMES.
6. ROAD CLOSURE WHETHER TEMPORARY ON A DAILY BASIS OR PERMANENTLY DURING CONSTRUCTION REQUIRES THE APPROVAL OF A DETOUR PLAN BY THE AGENCY OR AGENCIES HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SIGNAGE WHEN THE ROADWAY IS TO BE CLOSED OR TRAFFIC DETOURED. WHEN ROAD CLOSURES ARE TEMPORARY ALL STREETS SHALL BE RE-OPENED TO TRAFFIC BY THE END OF THE WORK DAY AND ALL DETOUR SIGNS COVERED OR REMOVED. WHEN ROADS ARE PERMANENTLY CLOSED DURING CONSTRUCTION ACCESS MUST BE PROVIDED TO PROPERTIES LOCATED ON THE CLOSED ROAD AT THE END OF EACH WORK DAY AND ON WEEKENDS.
7. DURING NON-DAY LIGHT HOURS OR RESTRICTED VISIBILITY, THE CONTRACTOR SHALL PROPERLY ILLUMINATE THE WORK BY THE INSTALLATION AND MAINTENANCE OF SUITABLE LIGHTS OR FLARES ESPECIALLY ALONG OR ACROSS THOROUGHFARES.

ENVIRONMENTAL REQUIREMENTS

1. THE CONTRACTOR SHALL REFER TO CCU SPECIFICATIONS FOR "EROSION AND SEDIMENT CONTROL".
2. PRIOR TO THE START AND DURING CONSTRUCTION ACTIVITIES, FOR AREAS WITHIN AND ADJOINING THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROTECTION BARRICADES/SILT FENCES/ADEQUATE MEASURES IN ACCORDANCE WITH COUNTY AND STATE REQUIREMENTS FOR ALL DESIGNATED TREES/PLANTS TO BE PROTECTED, WETLANDS, THREATENED AND/OR ENDANGERED SPECIES ETC.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-04
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

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DATE: 11/01/2011	SHALLOW PRECAST MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-02-SPCMH.dwg

BEDDING, BACKFILL, AND COMPACTION

1. ALL PIPES BEDDING MATERIAL SHALL BE NEW MATERIAL UNLESS OTHERWISE APPROVED BY CCU.
2. FOUNDATION MATERIAL OR BEDDING STONE SHALL BE USED FOR BEDDING OF PIPE AND/OR MANHOLES AS INDICATED ON THE ENGINEERING DRAWINGS. CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, AND SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES AND OTHER DELETERIOUS MATERIALS. THE STONE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33, SIZE NO. 57 (3/4 INCH STONE) AND BE GRADED WITHIN THE FOLLOWING LIMITS:

U.S. SIEVE SIZE	PERCENT FINER BY WEIGHT
1 1/2 INCH	100
1 INCH	95-100
1/2 INCH	25-100
NO. 4	0-10
NO. 8	0-5

3. SAND FOR BEDDING OF THE POLYVINYL CHLORIDE (PVC) GRAVITY SEWER PIPE SHALL BE A DRY SCREENED AND GRADED MATERIAL WITH 95 PERCENT PASSING 1 INCH SIEVE AND NOT MORE THAN FIVE PERCENT PASSING A NO. 200 SIEVE. ALL PVC GRAVITY SEWER PIPE SHALL BE INSTALLED AND BEDDED IN ACCORDANCE WITH ASTM SPECIFICATION D-2321, "RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE".
4. FOUNDATION STABILIZATION MATERIAL SHALL MEET CCU SPECIFICATIONS OR DESIGN DETAILS. IF DETERMINED BY CCU THE MATERIAL IN THE BOTTOM OF THE TRENCH IS UNSUITABLE FOR SUPPORTING THE PIPE, THE CONTRACTOR SHALL EXCAVATE BELOW THE FLOW LINE OF THE PIPE. THE TRENCH SHALL BE BACKFILLED TO SPECIFIED GRADE WITH FOUNDATION STABILIZATION MATERIAL. IF THE TRENCH IS PROPERLY DEWATERED, CCU APPROVED BACKFILL MATERIAL MAY BE USED FOR STABILIZATION. CRUSHED ROCK (NO. 57 STONE) SHALL BE USED WHEN A DRY TRENCH CANNOT BE OBTAINED. THE FOUNDATION STABILIZATION MATERIAL SHALL BE PLACED OVER THE FULL WIDTH OF THE TRENCH AND COMPACTED IN LAYERS NOT EXCEEDING SIX INCHES DEEP TO THE REQUIRED GRADE.
5. BACKFILLING OF TRENCHES SHALL NOT BE ALLOWED UNTIL THE WORK HAS BEEN APPROVED BY CCU. WORK BACKFILLED OR CONCEALED WITHOUT THE KNOWLEDGE OF CCU SHALL BE UNCOVERED OR EXPOSED FOR INSPECTION AT NO COST TO THE OWNER.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

NOTE:
1. PROVIDE 1% SLOPE THROUGH MANHOLE.

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DATE: 11/01/2011	OUTSIDE DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GS-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-03-OSDMH.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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Serving The State Of Florida

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FL. LICENSE #82437

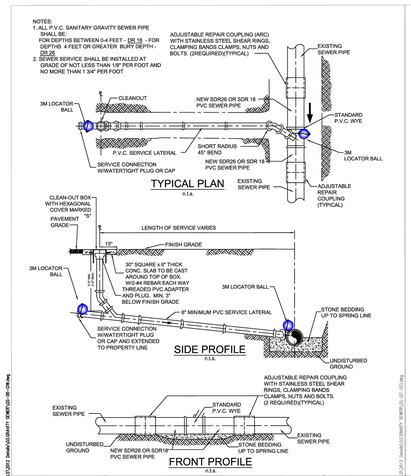
UTILITY DETAILS - 2

CORAL LAKES - PHASE I

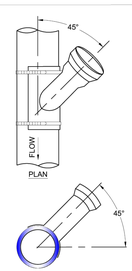
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	25

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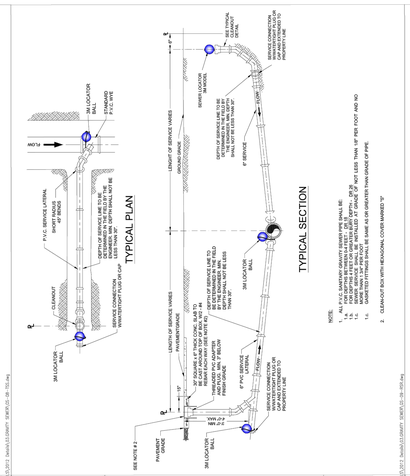


DATE: 11/01/2011	GRAVITY SEWER CUT-IN WYE & SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-06-CIW.dwg

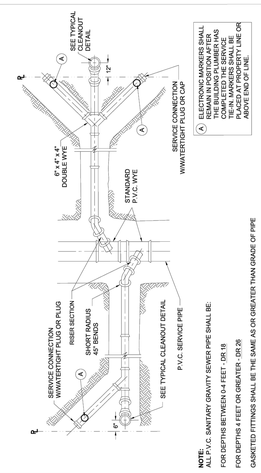


NOTES:
1. CONNECTIONS TO EXISTING SEWER MAINS SHALL BE MADE BY CONTRACTOR IN ACCORDANCE WITH CHARLOTTE COUNTY UTILITIES SPECIFICATIONS.
2. IN NO CASE SHALL CONNECTION BE MADE DIRECTLY ON TOP OF SEWER MAIN.
3. NO MORE THAN ONE CUT IN WYE SHALL BE ALLOWED FOR EACH LENGTH OF SEWER MAIN.
4. TAP SHALL BE MADE AT APPROXIMATELY CENTER OF JOINT LENGTH.
5. THE HOLE FOR THE COLLAR WYE FITTING FOR A SEWER SADDLE SHALL BE MADE WITH A TAPPING MACHINE. THE HOLE SHALL BE CLEANLY MACHINED AND IF NECESSARY WORKED BY HAND WITH A RASP OR SANDED TO ACCOMPLISH A TRUE AND NEAT OPENING FOR THE COLLAR WYE.
6. THE COLLAR WYE SADDLE SHALL BE SECURED TO THE SEWER WITH APPROVED STAINLESS STEEL BANDS.
7. ALL CHIPS, DIRT, EPOXY, MORTAR, AND CONCRETE SHALL BE KEPT OUT OF THE SADDLED SEWER. CLEANING AND BALLING OF THE SADDLED REACH SHALL BE PERFORMED IF REQUIRED BY CCU.
8. ANY DAMAGED PIPE SHALL BE REPAIRED OR REPLACED AS DIRECTED BY CCU.
9. COLLAR WYE SADDLE OR CUT IN WYE TO BE USED WHEN LATERAL IS 4" OR 8" IN DIAMETER. FOR 6" AND OVER, A STANDARD MANHOLE CONNECTION SHALL BE USED.
10. MAIN LINE SHALL BE BROKEN OUT FOR SADDLE ONLY IN THE PRESENCE OF CCU PERSONAL.

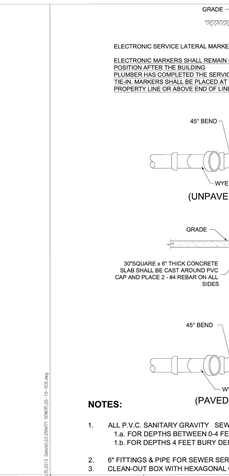
DATE: 11/01/2011	OPTIONAL GRAVITY SEWER WYE CUT-IN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-07	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-07-OCI.dwg



DATE: 11/01/2011	TYPICAL SEWER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-08	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-08-TSS.dwg

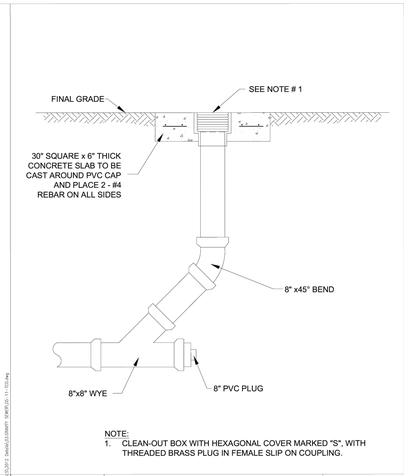


DATE: 11/01/2011	TYPICAL RESIDENTIAL SEWER SERVICE WITH RISER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-09	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-09-RSR.dwg



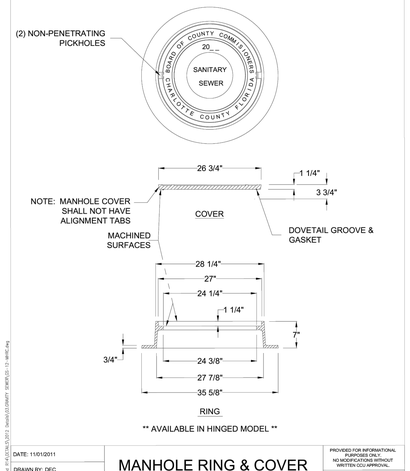
NOTES:
1. ALL P.V.C. SANITARY GRAVITY SEWER PIPE SHALL BE:
   1.a. FOR DEPTHS BETWEEN 0-4 FEET - DR 18
   1.b. FOR DEPTHS 4 FEET BURY DEPTH - DR 26
2. 6" FITTINGS & PIPE FOR SEWER SERVICES.
3. CLEAN-OUT BOX WITH HEXAGONAL COVER MARKED "S"

DATE: 11/01/2011	TYPICAL CLEANOUT DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-08	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-10-SCO.dwg



NOTE:
1. CLEAN-OUT BOX WITH HEXAGONAL COVER MARKED "S", WITH THREADED BRASS PLUG IN FEMALE SLIP ON COUPLING.

DATE: 11/01/2011	TEMPORARY TERMINAL CLEANOUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-11	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-11-TCO.dwg



** AVAILABLE IN HINGED MODEL **

DATE: 11/01/2011	MANHOLE RING & COVER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	GS-12	
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GS-12-MHRC.dwg

1. 8" CONCRETE SLAB TO BE FORMED AND POURED IN PLACE. SLAB IS TO BE 3000 PSI WITH FIBER MESH AND EVEN WITH WET WELL TOP AND TO HAVE A BROOM FINISH.
2. STATION VENT - COMPRISED OF 8" SCH. 80 PVC RISER AND ONE FRIDE FLANGE. 8" PVC BLANK FLANGE AND 316 SS BOLTS, WASHERS AND NUTS (8 - 316 S.S. BOLTS & WASHERS REQUIRED). USE A 1-1/4" SCH. 80 PVC SPACER AT EACH BOLT LOCATION. 1/8" THICK HEAVY FIBER GLASS SCREENING SHALL ALSO BE INSTALLED UNDER PVC SPACER. (SEE DETAIL "B").
3. "LINK SEAL" MODEL S-316 FOR D.I.P.S. / CAST OR CORE BIT DRILLED HOLE.
4. PRECAST CONCRETE WET WELL SHALL CONFORM TO ASTM C478, SHALL BE ACID RESISTANT CEMENT AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. BASE SHALL BE MONOLITHIC WITH BOTTOM SECTION F OF WET WELL.
5. HALLIDAY SVB _____ ALUMINUM ACCESS COVER WITH STANDARD LOCKING BAR & FRAME OR APPROVED EQUAL. INSTALLED PER MFG. ACTUAL HATCH SIZE TO ACCOMMODATE PUMPS (MIN. 36X48)

NOTE: LIFT STATION IS TO HAVE AN ACCESS DRIVE A MINIMUM OF 16' WIDE AND CONTINUOUS FROM ROAD TO ACCESS GATE. ACCESS DRIVE IS TO BE BUILT PER ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES' SPECIFICATIONS.

DATE: 7/01/2016	SITE LAYOUT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC	LS-01	
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-01_Site Plan.dwg

DATE: 07-01-2016	PIPING PLAN LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC	LS-02	
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-02-Piping Plan.dwg

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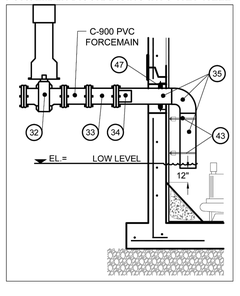
APPROVED BY: MM
DRAWN BY: KBC
DATE: 07-01-2016

LIFT STATION SECTION A-A
LIFT STATION DETAIL
CHARLOTTE COUNTY UTILITIES

ID: LS-03-Piping Section.dwg
LS-03
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

25 YEAR FLOOD ELEVATION = 10.22
100 YEAR FLOOD ELEVATION = 11.26
500 YEAR FLOOD ELEVATION = 13.50

FORCEMAIN DISCHARGING INTO WET WELL



SECTION A-A, THROUGH WET WELL

NOTES:
1. MAXIMUM HEIGHT FROM BOTTOM OF PIPE TO TOP OF SLAB 24".
2. FINAL WET WELL DIMENSIONS ARE BASED ON WET WELL ANTI-FLOTATION CALCULATIONS.
3. MINIMUM DISTANCE BETWEEN INFLUENT INVERT AND WETWELL BOTTOM SHALL BE 5 FT.

RECORD DRAWING
RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

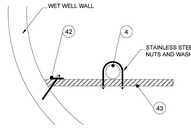
BANKS ENGINEERING
Professional Engineers, Planners, & Land Surveyors
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PHONE: (941) 625-1165 FAX: (941) 625-1149
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RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 3
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

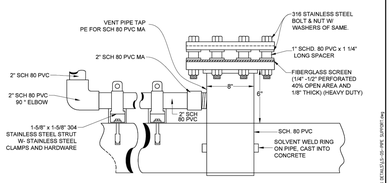
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	26

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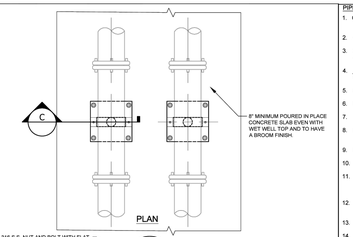


DETAIL 'A'

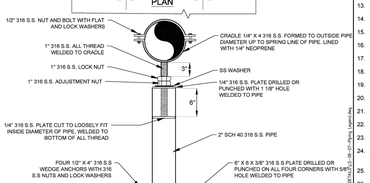


DETAIL 'B'

DATE: 07-01-2016	DETAILS 'A' AND 'B' LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-04
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-04-Details A-B.dwg



PLAN



SECTION C

NOTE:
MAXIMUM HEIGHT FROM BOTTOM OF PIPE TO TOP OF SLAB 24"

DATE: 07-01-2016	PIPE SUPPORT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-05
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-05-PIPE SUPPORT.dwg

PIPING PLAN & SECTION LEGEND:

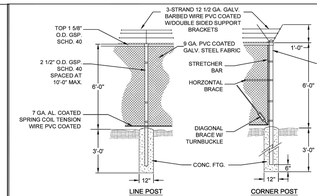
1. CENTRIFUGAL NON-CLOG SUBMERSIBLE PUMP - TYPE FLYGT, MODEL NO. 249 , IMPELLER NO. 146 , 230 VOLTS, 3 PHASE 356 GPM @ 55 TDH, (2 REQUIRED) 11 HORSE POWER
2. ANCHOR BOLTS 4 PER PUMP
3. CHARLOTTE COUNTY UTILITIES APPROVED MANUFACTURER COMPATIBLE " STANDARD DISCHARGE CONNECTION (2 REQ'D.) ADJUST FOR PUMP TO WETWELL BOTTOM CLEARANCE AS REQUIRED BY PUMP MANUFACTURER WITH 4000 PSI TYPE II CONCRETE
4. 2 " DIAMETER PVC SCH. 40 WELDED STAINLESS STEEL PIPE TYPE 316, MUST BE WITHIN 1/4" TOLERANCE OF FITTING INTO GUIDE RAIL BRACKETS AS PER MFG. (4 REQUIRED)
5. UPPER GUIDE RAIL BRACKETS (2 REQUIRED)
6. FOR GUIDE RAILS OVER 15 FT INSTALL INTERMEDIATE GUIDE RAIL BRACKETS (2 REQUIRED) (SEE LIFT STATION DETAIL "A")
7. PUMP LIFTING CHAIN (2 REQUIRED).
8. LIQUID LEVEL SENSOR, EACH SENSOR CABLE SHALL BE CONTINUOUS (NO SPLICES) AND A MINIMUM OF 40 FEET IN LENGTH, 4 REQUIRED, 5 REQUIRED IF TCU EQUIPPED
9. PUMP POWER CABLE (2 REQUIRED)
10. LIQUID LEVEL SENSOR CABLE HOLDER TYPE 316 SS WITH PUMP LIFTING CABLE RING. FURNISH WITH NOT LESS THAN 6 PRONGS.
11. 2" CONDUIT FOR CABLES (3 REQUIRED). FROM TOP OF SWEEP TO MCC TO BE PVC SCH. 80 ELECTRICAL GRADE. FROM TOP OF SWEEP TO INSIDE OF WET WELL TO BE PVC SCH. 80, CLAMP CONDUIT TO BOTTOM STRUT OF MOTOR CONTROL CABINET (MCC). (SEE STANDARD LIFT STATION SECTION A-A DETAIL)
12. 1" CONDUIT FOR CABLE FROM TOP OF SWEEP TO MCC, TO BE PVC SCH. 80 ELECTRICAL GRADE, FROM TOP OF SWEEP TO BOTTOM OF SLAB TO BE PVC SCH. 80
13. 4 " DIPS SDR-11 HDPE WITH FUSED FLANGE W/ STAINLESS STEEL BACK UP RING, (USE BENDS AS NECESSARY)
14. 4 " HDPE FUSION COUPLER (IF NEEDED)
15. 4 " DIPS SDR-11 HDPE 90 DEGREE ELBOW WITH FUSED FLANGE W/ STAINLESS STEEL BACK UP RING AT SPOOL PIECE
16. 4 " x 24" LONG FLANGE BY FLANGE DI PIPE
17. 4 " MUELLER R M&H "QUIET CLOSING SWING CHECK" WITH WEIGHT AND LEVER
18. 4 " PLUG VALVE (3 REQ'D.)
19. 4 " PLUG VALVE
20. 4 " DUCTILE IRON PIPE (DIP) TEE (2 REQ'D)
21. 4 " COUPLER
22. 6 x 4 " DIP COMPANION FLANGE
23. 2" FLANGED AUTOMATIC AIR-RELEASE VALVE (ARV) WITH " EPOXY COATED STAINLESS STEEL STRAP SADDLE
24. 1 1" OR 2" (MATCH ARV DISCHARGE) PVC SCH. 80. DISCHARGE LINE FROM ARV's, WITH FITTINGS (FROM ARV's INTO TOP OF VENT)
25. 6 " x 18" LONG CLASS 53 DIP EPOXY LINED PIPE FLANGE x FLANGE
26. 6 " x 6 " EPOXY LINED DI FLANGED REDUCER (IF NEEDED)
27. 6 " x 90° EPOXY LINED DIP FLANGED BEND
28. 6 " x 90° EPOXY LINED DIP FLANGED BEND
29. 6 " CLASS 53 DIP EPOXY LINED PIPE, PLAIN END BY FLANGE END (AS NEEDED)
30. 6 " x 90° EPOXY LINED MJ BEND. (RESTRAINED JOINT AND THRUST BLOCK AS REQUIRED) (2 REQUIRED)

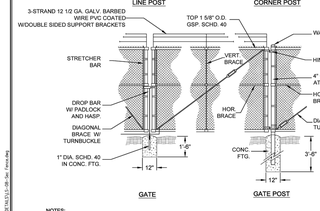
DATE: 07-01-2016	PIPING PLAN & SECTION LEGEND ONE LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-06
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-06-07-Piping Legend.dwg

PIPING PLAN & SECTION LEGEND (CONTINUED):

31. 6 " x 4 " MJ REDUCER (IF NEEDED)
32. N/A " MJ GATE VALVE
33. N/A " CLASS 53 DUCTILE IRON PIPE (DIP) EPOXY LINED SOLID SLEEVE - RESTRAINED JOINT
34. N/A " 316 STAINLESS STEEL INSERT
35. N/A " HDPE DIPS SDR-11 FUSED 90° ELBOW W/ PLAIN ENDS
36. N/A SDR 35 PVC 90° ELBOW
37. 8" MINIMUM POURED IN PLACE CONCRETE SLAB EVEN WITH WET WELL TOP AND TO HAVE A BROOM FINISH
38. PRECAST CONCRETE WET WELL TOP, WITH BROOM FINISH
39. WET WELL LINING
40. PRECAST CONCRETE WET WELL AND BASE
41. PROVIDE 12 INCHES OF COMPACTED CRUSHED STONE OR PEA GRAVEL LEVELING COURSE. COMPACT TO STABILIZE. WET WELL SHALL BE PLACED ON UNDISTURBED SUB-BASE OR 100% COMPACTED CLEAN FILL
42. #5 REBAR AT 12" ON CENTER EACH WAY
43. 1-5/8"x 1-5/8" SLOTTED 12 GAUGE CHANNEL STRUT, TO BE PLACED 6" FROM BOTTOM OF PIPE AND 6" BELOW 90° ELBOW
44. TONGUE AND GROOVE JOINT WITH SEAL
45. WRAP
46. ELASTOMERIC GASKET BOOT
47. "LINK SEAL" MODEL S-316 FOR DIPS / CAST OR CORE BIT DRILLED HOLE, TYPE WALL SLEEVE PIPE SUPPORTS W/ SS BOLTS (2)
48. ACCESS COVER INSTALLED PER MFG. ACTUAL HATCH SIZE TO ACCOMMODATE PUMPS (MIN. 36"x48")
49. STATION VENT - AIR RELEASE VALVE (ARV)
50. STAINLESS STEEL SUPPORT CRADLE (SEE STANDARD LIFT STATION PIPE SUPPORT DETAIL) (4 REQUIRED)
51. 6 " DIPS SDR 11 HDPE FUSED WITH 90° ELBOW W/ PLAIN ENDS
52. 6 " HDPE FUSION COUPLER (IF NEEDED)
53. 6 " 316 STAINLESS STEEL INSERT
54. 6 " x 90° EPOXY LINED MJ BEND. (RESTRAINED JOINT AND THRUST BLOCK AS REQUIRED) (2 REQUIRED)
55. 6 " CLASS 53 DIP EPOXY LINED PIPE, PLAIN END BY FLANGE END (AS NEEDED)
56. 6 " x 90° EPOXY LINED DI FLANGED BEND (2 REQUIRED)
57. - - "x - - " DIP COMPANION FLANGE
58. - - " COUPLER
59. ALL GASKETS SHALL BE 1/8" THICK SBR AS MANUFACTURED BY: U.S. PIPE "FLANGE - TYPE" OR AMERICAN CAST IRON PIPE "TORUSEAL"
60. 1-5/8"x 1-5/8" SLOTTED 12 GAUGE CHANNEL STRUT TO BE PLACED AT 8' INTERVALS ON PIPE LONGER THAN 10 FEET (SEE STANDARD LIFT STATION DETAIL 'A'). IF LESS THAN 10 FEET, PLACE AT MIDPOINT OF PIPE
61. SCADA ANTENNA, TOWER AND FOOTING BY OTHERS

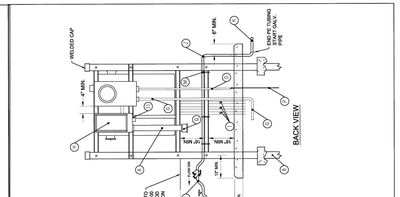
DATE: 07-01-2016	PIPING PLAN & SECTION LEGEND TWO LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-07
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-06-07-Piping Legend.dwg



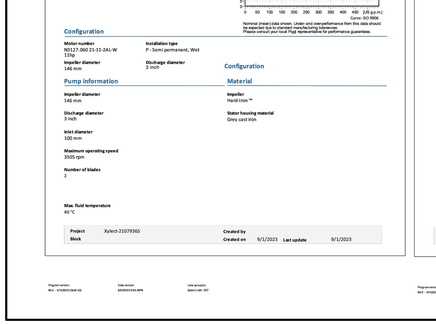


NOTES:
1. DOUBLE GATE TO BE 16'-0" CLEAR OPENING OR AS SPECIFIED.
2. PVC COATED GALVANIZED STEEL WOVEN WIRE FABRIC TO BE STRETCHED TAUT W/STRETCHER BARS AND STRAPS AND FASTENED TOP & BOTTOM AND AT POSTS WITH GALV. PVC COATED PIG RING TIES. AS TO COMPLY WITH ASTM-392, CLASS II.
3. EACH GATE TO BE SECURED OPEN WITH A GATE STOP SET IN CONCRETE.
4. ALL HARDWARE, PIPE AND ACCESSORIES TO COMPLY TO ASTM 1-120,123,153 AND TO BE PVC COATED AND MATCH IN COLOR.
5. COLOR OF FENCING, POSTS, HARDWARE AND BARBED WIRE SHALL BE PVC COATED BLACK. UNLESS APPROVED BY CCU.

DATE: 07-01-2016	SECURITY FENCE LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		LS-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: LS-08-Sec Fence.dwg



DATE: 7/01/2016	CONTROL PANEL MOUNTING LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-09
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-09 Control Panel Mounting.dwg



CONTROL PANEL NAMEPLATE SPECIFICATIONS

ITEM NO.	LABEL INSCRIPTION	QUANTITY	BACKGROUND COLOR
MP1	ECB	1	RED
MP2	MCB	1	BLACK
MP3	SR1	1	BLACK
MP4	MBS	1	BLACK
MP5			
MP6	OPB	1	BLACK
MP7	SR2	1	BLACK
MP8	BPCB	1	BLACK
MP9	PUMP1	1	BLACK
MP10	PUMP2	1	BLACK
MP11	OCCB	1	BLACK
MP12	ASB	1	RED
MP13	TLS	1	BLUE
MP14	ETM #1	1	BLUE
MP15	HOA#1	1	BLUE
MP16	SS	1	BLUE
MP17	No. 1 PUMP	1	GREEN
MP18	No. 2 PUMP	1	GREEN
MP19	ETM 2	1	BLUE
MP20	HOA	1	BLUE
MP21			

LABELS SHALL BE LAMINATED PLASTIC WITH WHITE CAP WITH ENGRAVED LETTERS. BACKGROUND COLOR OF LABELS SHALL BE AS INDICATED ABOVE. LABELS SHALL BE ATTACHED WITH PERMANENT ADHESIVE.

INTERIOR CONTROL PANEL

BACK OF ENCLOSURE DOOR

DEADFRONT DOOR

DATE: 07-01-2016	CONTROL PANEL LAYOUT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-10
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-10-Control Panel Layout.dwg

CONTROL PANEL LEGEND

ITEM NO.	ABBREV.	PART	QUANTITY	DESCRIPTION
1	ECB	EMERGENCY CIRCUIT BREAKER	1	SQ-D FAL_____ 3-POLE ____A
2	MCB	MAIN CIRCUIT BREAKER	1	SQ-D FAL_____ 3-POLE ____A
3	BPCB	BYPASS CONTROL CIRCUIT BREAKER	1	SQ-D FAL_____ 1-POLE 15 AMP
4	DPB	DUPLEX RECEPTICAL BREAKER W/GFI	1	SQ-D FAL_____ 1-POLE 15 AMP
5	CCB	CONTROL CIRCUIT BREAKER	1	SQ-D FAL_____ 1-POLE 15 AMP
6	MS 1	MOTOR STARTER	1	SQ-D 8536 _____ (SIZE _____)
7	MS 2	MOTOR STARTER	1	SQ-D 8536 _____ (SIZE _____)
8	FL	ALARM FLASHER RELAY	1	SSAC FS-126
9	GR	GENERATOR RECEPTACLE	1	PYLE NATIONAL JIRE 4100
10		TCU	1	_____ DATA FLOW SYSTEMS TELEMETRY UNIT
11	LA	LIGHTNING ARRESTER	1	SQ-D #SP3650 650 V, 3PH
12				
13		NOT USED		
14	ETM 1	ELAPSED TIME METER	1	ETMAC 200-10N07 ROUND MOUNT
15	ETM 2	ELAPSED TIME METER	1	ETMAC 200-10N07 ROUND MOUNT
16	SS	SURGE SUPPRESSOR	1	EDCO HSP - 121 RTRM
17	CPT	CONTROL POWER TRANSFORMER		
18		NOT USED		
19	OL	OVERLOAD HEATER (IN PANEL)		SQ-D _____
20	SF 1	SEAL FAIL RELAY	1	DEVERSIFIED SYM - 120 - AAB - 100K
21	SF 2	SEAL FAIL RELAY	1	DEVERSIFIED SYM - 120 - AAB - 100K
22	OCCB	DOOR CONTROL CIRCUIT BREAKER	1	SQ- D FAL_____ 3 POLE _____ A (IF REQUIRED)
23	ASB	ALARM SILENCE BUTTON	1	SIEMENS-ALLIS 30BG3-PTB10 OR SQ-D 9001PH13
24	MB 1	MOTOR BREAKER PUMP #1	1	SQ-D FAL_____ 3-POLE _____ A
25	MB 2	MOTOR BREAKER PUMP #2	1	SQ-D FAL_____ 3-POLE _____ A
26	SR 1	STARTER RELAY	1	DAYTON 8 - PIN, 120 VAC 50/60 HZ #5ZA5 W/SOCKET 3 5X852
27	BPR	BYPASS CONTROL RELAY	3	OMRON 14 PIN MY4CI110205
28	SR 2	STARTER RELAY	1	DAYTON 8 - PIN, 120 VAC 50/60 HZ #5ZA5 W/SOCKET 3 5X852
29	HOA 1	HAND-OFF-AUTO SWITCH	1	SQUARE"D" SWITCH CSSD01H3A3B CONTACT BLOCK-CT9001KA-1 LEDGEN 9001KN2GS5P
30	MES	MAINTENANCE / ENTRY SWITCH	1	SPST SWITCH
31	FR	FLOAT REGULATOR		ROTO-FLOAT TYPE S, LIQUID LEVEL SENSOR
32	TLS	TROUBLE LIGHT SWITCH INT. & EXT.	1	SQ-D 9K5F43BH2 & KA1
33	TL	TROUBLE LIGHT	1	LEVITON 9880 (40 WATT BULB)
34	HOA 2	HAND-OFF-AUTO SWITCH	1	SQUARE"D" SWITCH CSSD01H3A3B CONTACT BLOCK-CT9001KA-1 LEDGEN 9001KN2GS5P
35	AL	ALARM LIGHT	1	INGRAM LRX-40 or OHIO ELECTRIC RL-3K
36	AH 1	ALARM HORN	1	ALA-475-N5, EDWARDS 12SV
37	AH 2	ALARM HORN	1	ALA-475-N5, EDWARDS 12V
38	TB 3	TERMINAL BLOCK #3	1	SQ-D 38364 4 PT
39	TBS	TERMINAL BLOCK #5	1	SQ-D 38364 12 PT
40	GFDR	GROUND FAULT DUPLEX RECEPTACLE	1	15A-ARROW HART OR LEVITON
41	PB	POWER BLOCK	1	BLSS80AAN # 1802-3
42	TB 4	TERMINAL BLOCK #4	1	SQ-D 38364 6 PT
43	TB 2	TERMINAL BLOCK #2 (PTU)	1	SUPPLIED BY OFS
44	TB 1	TERMINAL BLOCK #1	1	SQ-D 38364 33 PT
45	BATT	BATTERY	1	
46		DOOR BAR WIND RESTRAINT	1	
47	NB	NEUTRAL BLOCK	1	GB-1 WEIDMULLER
48	BUAC	BATTERY BACK-UP MODULE	1	
49	MC	MOUNTING CHANNEL	4	SQ-D 9080GH112
50	XFMA	TRANSFORMER	1	MICRON, 3150LFT-K

DATE: 07-01-2016	CONTROL PANEL LEGEND LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-11
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-11-Control Panel Legend.dwg

CONTROL PANEL MOUNTING NOTES

A. THE CONTROL PLANEL ENCLOSURE SHALL HAVE A PAD LOCKABLE HASP AND A THREE PO INT LATCH SYSTEM AND WIND RESTRAINER ARM THAT INCLUDES HARDWARE TO RESTRA IN THE DEAD FRONT DOOR WHEN OPENED. THE HASP AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.

B. TWO (2) 4 INCH DIAMETER SCHEDULE 80 ALUMINUM PIPES WITH 4 INCH WELDED ALUMINUM CAPS SHALL BE ANCHORED IN CONCRETE FROM 3 INCHES BELOW THE BOTTOM OF THE P IPE TO 12 INCHES BELOW THE FINISHED GRADE.

C. THREE (3) "EYE" EXPLOSION PROOF CLASS 1 SEAL-OFF 2 INCH DIAMETER SEAL WITH NON-HARDENING CONDUIT SEALANT AS APPROVED BY THE MANUFACTURER FOR A TEMPORARY SEAL.

D. THE ALUMINUM PIPES SHALL INCLUDE TYPE 316 STAINLESS STEEL H-1 7/8 INCH CHANNEL STRUT C/W TYPE 316 STAINLESS STEEL DISSIMILAR METALS SHALL BE ISOLATED WITH RUBBER GASKETS.

E. PLASTIC WARNING LABEL STATING "DANGER HIGH VOLTAGE" SHALL BE INSTALLED ON THE OUTSIDE OF THE ENCLOSURE DOOR AND BE SECURED TO THE DOOR WITH ADHESIVE OR CEMENT.

F. TWO (2) INCH CONDUIT AND WIRING BETWEEN THE FPL METER CAN AND THE SAFETY DISCONNECT PANEL AND THE CONTROL PANEL.

G. UNDERGROUND SCH 80 CONDUIT AND WIRING BETWEEN THE FPL METER CAN AND THE FPL HAND HOLE.

H. FUSED SAFETY DISCONNECT IN A NEMA 4X ENCLOSURE WITH A LOCKING PLATE. INSTALL AN EXTERNAL LIGHTING ARRESTOR. POWER FROM THE CONTROL PANEL SHALL EXIT THE ENCLOSURE FROM THE UNDERSIDE.

I. THREE (3) 2" CONDUIT AND WIRING BETWEEN THE MCC AND THE WETWELL. FROM THE TOP OF THE SWEEP TO THE MCC SHALL BE PVC SCH 80 ELECTRICAL GRADE AND FROM THE TOP OF THE SWEEP TO THE INSIDE OF THE WETWELL SHALL BE SCHEDULE 80 PVC.

J. ½" GALVANIZED STEEL PIPE WITH TWO (2) 90 DEGREE BENDS TO THE BACKFLOW PREVENTION DEVICE AND THE HOSE BIB.

K. ½" POLYETHYLENE PIPING FROM THE WATER METER AND THE WATER SERVICE.

L. CONCRETE SLAB.

M. WORM DRIVE CLAMPS. (3 MINIMUM)

N. ONE (1) NUMBER 6 WIRE GROUND IN ½" SCHEDULE 80 PVC.

O. GROUND ROD.

P. THREADED RIGID TYPE 316 STAINLESS STEEL CONDUIT SIZED AS REQUIRED BY FULL LOAD AMPERAGE.

Q. CAST ALUMINUM TYPE LB FITTING WITH ALUMINUM CAP.

R. HEAVY DUTY MECHANICAL INTERLOCK FOR EMERGENCY POWER TRANSFER.

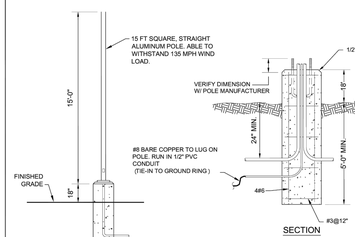
S. PANDUIT TO BE FILLED TO ONLY 50% CAPACITY.

T. IF REQUIRED, ONE (1) INCH PVC AND TYPE 316 STAINLESS STEEL CONDUIT BETWEEN THE CONTROL PANEL AND THE TCU CONTROL PANEL ENCLOSURE. THE AREA LIGHT, THE STAND-BY GENERATOR, AND/OR THE DOOR CONTROL IN ACCORDANCE WITH THE ENGINEERING DRAWINGS.

U. ALL INTERNAL MCC WIRING SHALL BE STRANDED WIRE AND PERMANENTLY NUMBERED.

V. PLASTIC LIFT STATION LABEL AND POCKET FOR CLIP BOARD, PROVIDED AND INSTALLED BY THE CONTRACTOR ON THE BACK OF THE CONTROL PANEL ENCLOSURE DOOR USING AN ADHESIVE OR CEMENT.

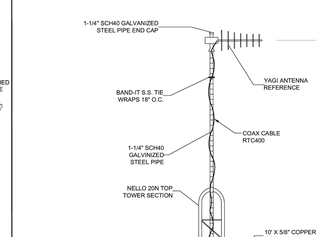
DATE: 07-01-2016	CONTROL PANEL MOUNTING NOTES LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-12
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-12-Control Panel Notes.dwg



AREA LIGHT: RUUD CAT. # VFT1492-M
250W METAL-HALIDE 277V, DARK BRONZE.

POLE: RUUD CAT. # PAS15C18Z
15', 4" SQUARE, STRAIGHT ALUMINUM POLE, DARK BRONZE. (135 mph WIND LOAD CAPACITY)

NOTE: YARD LIGHT DETAIL (FOR SERVICE ONLY)



NOTE:
1. SEE ENGINEERING PLANS FOR LOCATION OF TCU.

DATE: 07-01-2016	YARD LIGHT LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-13
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-13- Yard Light.dwg

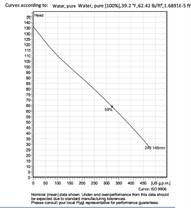
DATE: 7/01/2016	TCU ANTENNA LIFT STATION DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: KBC		LS-14
APPROVED BY: MM	CHARLOTTE COUNTY UTILITIES	ID: LS-14-TCU Antenna.dwg

NP 3127 SH 3~ Adaptive 249

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.

Technical specification





Configuration

Motor number	N3127.060 23-11-2A1-W 137hp
Impeller diameter	146 mm
Installation type	P - Semi permanent, Wet
Discharge diameter	3 Inch

Pump information

Impeller diameter	146 mm
Discharge diameter	3 inch
Inlet diameter	100 mm
Maximum operating speed	3505 rpm
Number of blades	2
Max. fluid temperature	40 °C

Material

Impeller	Hard-Iron ™
Stator housing material	Grey cast iron

Project	Xylect-21079365	Created by	
Block		Created on	9/1/2023
		Last update	9/1/2023

Program version: 99.0 - 3/10/2023 (Build 53)
Data version: 6/20/2023 6:00 AM PA
User group(s): Xylem Lite - EXT

NP 3127 SH 3~ Adaptive 249

Technical specification

Motor - General

Motor number: N3127.060 23-11-2A1-W 137hp	Phases: 3~	Rated speed: 3505 rpm	Rated power: 11 hp
ATEX approved: No	Number of poles: 2	Rated current: 20 A	Stator variant: 29
Frequency: 60 Hz	Rated voltage: 230 V	Insulation class: H	Type of Duty: S1
Version code: 060			

Motor - Technical

Power factor - 1/1 Load: 0.90	Motor efficiency - 1/1 Load: 88.1 %	Total moment of inertia: 0.434 lb·ft²	Starts per hour max.: 30
Power factor - 3/4 Load: 0.87	Motor efficiency - 3/4 Load: 88.5 %	Starting current, direct starting: 248 A	
Power factor - 1/2 Load: 0.79	Motor efficiency - 1/2 Load: 87.3 %	Starting current, star-delta: 82.7 A	

Project	Xylect-21079365	Created by	
Block		Created on	9/1/2023
		Last update	9/1/2023

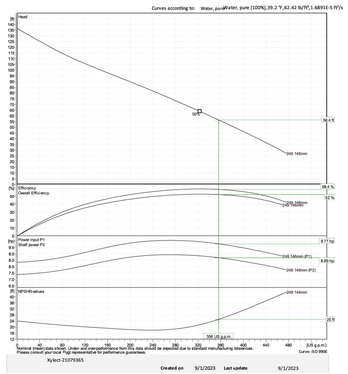
Program version: 99.0 - 3/10/2023 (Build 53)
Data version: 6/20/2023 6:00 AM PA
User group(s): Xylem Lite - EXT

NP 3127 SH 3~ Adaptive 249

Performance curve

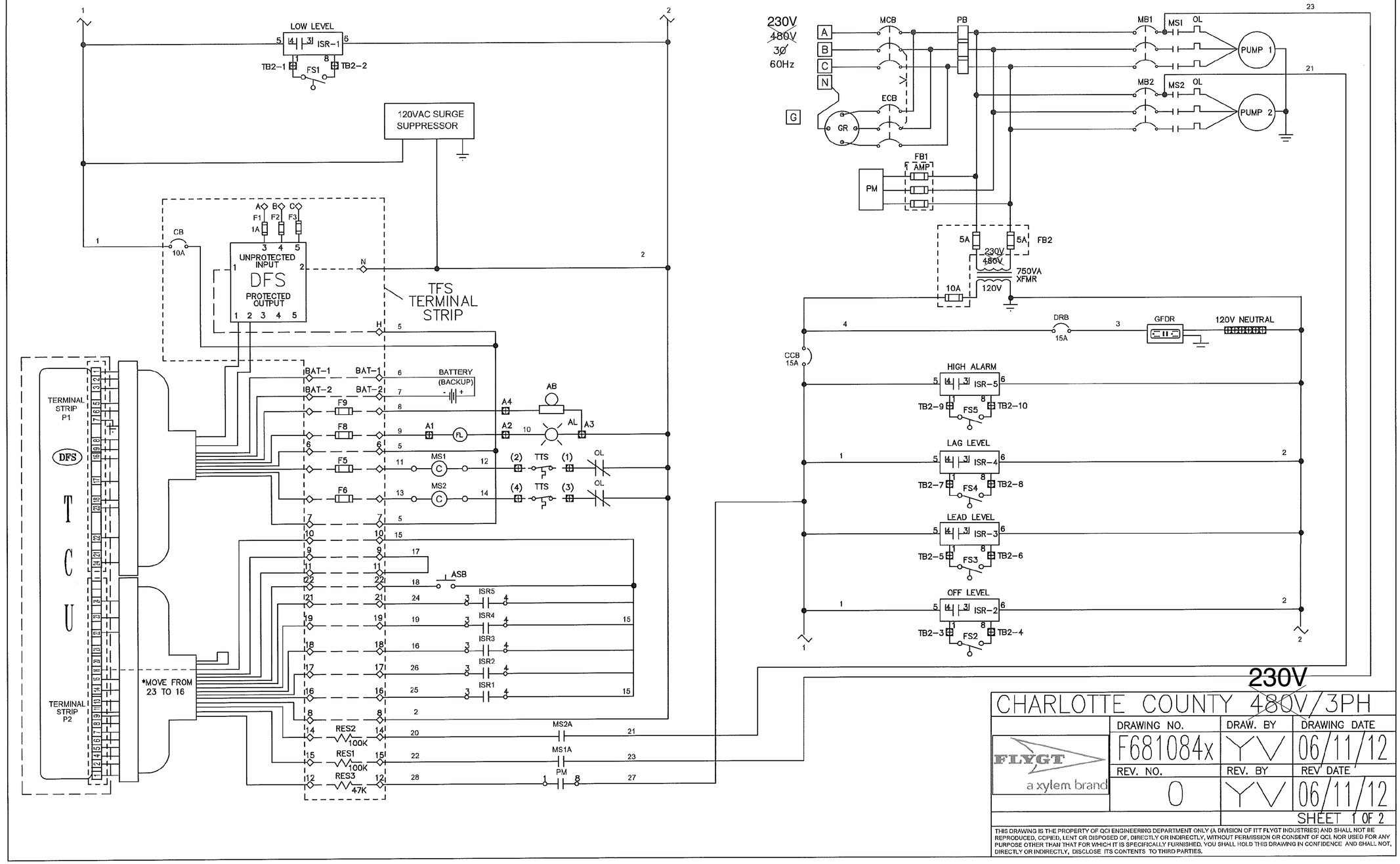
Duty point

Flow: 354 US g.p.m.	Head: 56.4 ft



Project	Xylect-21079365	Created by	
Block		Created on	9/1/2023
		Last update	9/1/2023

Program version: 99.0



230V

CHARLOTTE COUNTY 480V/3PH

DRAWING NO.	DRAW. BY	DRAWING DATE
F681084x	YV	06/11/12
REV. NO.	REV. BY	REV DATE
0	YV	06/11/12

FLYGT a xylem brand

SHEET 1 OF 2

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RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

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

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SURVEY LICENSE # LB 6690

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RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 5

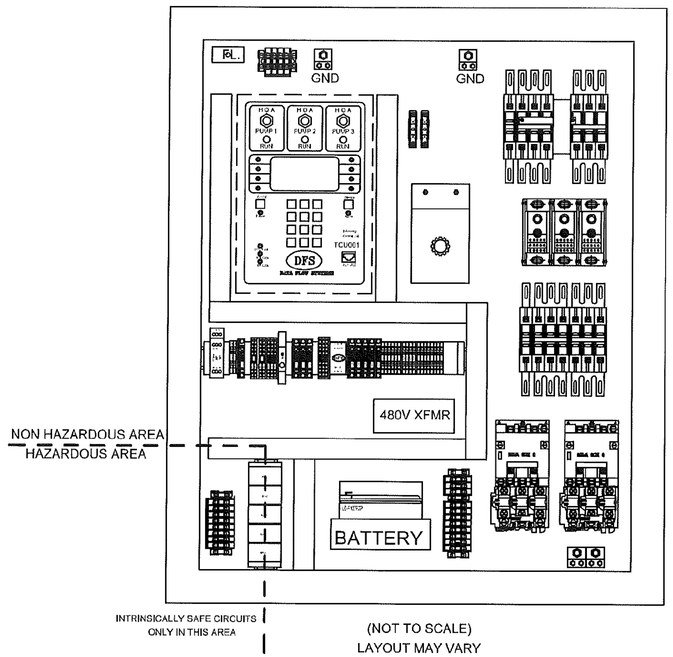
CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

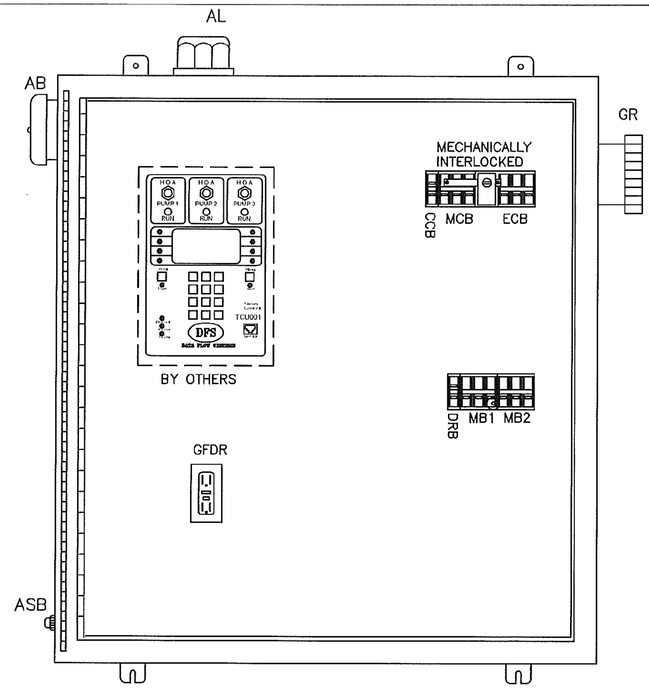
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	28

S:\JOBS\4500\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/17/2025 1:56 PM TODD HAHN

4585S - DAVID BOULEVARD APARTMENTS



(NOT TO SCALE)
LAYOUT MAY VARY



OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT
NEMA TYPE 3R S.S. ENCLOSURE WITH CONT. HINGE
ALL HARDWARE TYPE 304 S.S.
TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER

LEGEND

AL _ ALARM LIGHT
CCB _ CONTROL CIRCUIT BREAKER
DRB _ DUPLEX RECEPTACLE BREAKER
F _ FUSE
FB _ FUSE BLOCK
FL _ FLASHER
FR _ FLOAT REGULATOR
GFDR _ GROUND FAULT DUPLEX RECEPTACLE
GR _ GENERATOR RECEPTACLE
MB _ MOTOR BREAKER
MCB _ MAIN CIRCUIT BREAKER/SERVICE DISCONNECT
MS _ MOTOR STARTER
OL _ OVERLOAD
PCU _ PUMP CONTROL UNIT
SA _ SURGE ARRESTOR
TB _ TERMINAL BLOCK
TL _ TROUBLE LIGHT (FLUORESCENT)
TTS _ THERMAL TERMINAL STRIP

230V
CHARLOTTE COUNTY ~~480V~~/3PH

	DRAWING NO.	DRAW. BY	DRAWING DATE
FLYGT a xylem brand	F681084x	YV	06/11/12
	REV. NO.	REV. BY	REV DATE
	0	YV	06/11/12
		SHEET 2 OF 2	

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CCU PROJECT NUMBER: 23-1026

PREPARED FOR:
CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

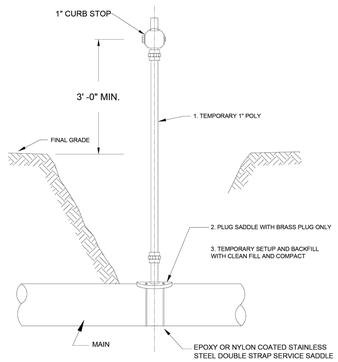
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UTILITY DETAILS - 6
CORAL LAKES - PHASE I
CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	29

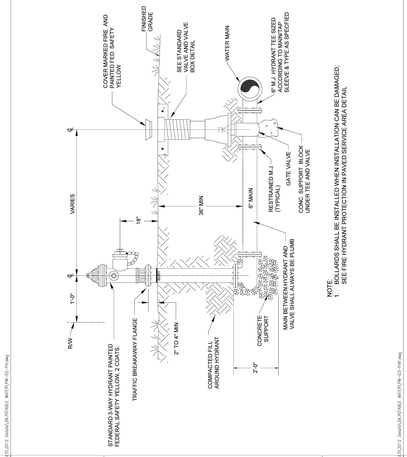
4585S - DAVID BOULEVARD APARTMENTS

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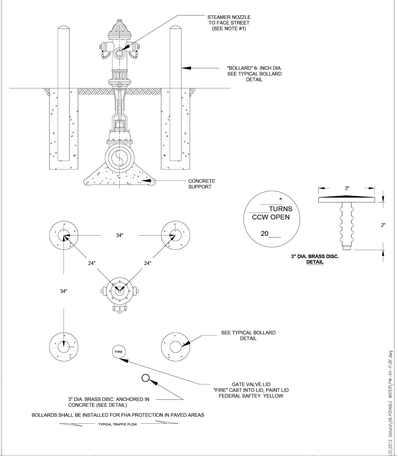
NOTE:
1: REMOVE RISER PIPE AND INSTALL BRASS PLUG AFTER FDEP CERTIFICATIONS.
2: USE TEFLON TAPE IN LIEU OF PIPE DOPE ON THREADED FITTINGS.

DATE: 11/01/2011	SAMPLE POINT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-01
APPROVED BY: BRB		ID: PW-01-BACT.dwg

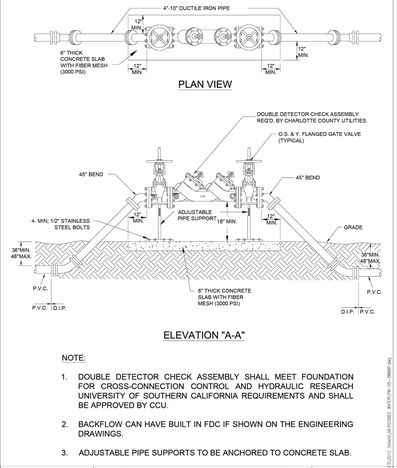


NOTE:
1. BOLLARDS SHALL BE INSTALLED WHEN INSTALLATION CAN BE DAMAGED. SEE FIRE HYDRANT PROTECTION IN PAVED SERVICE AREA DETAIL

DATE: 11/01/2011	FIRE HYDRANT WITH TYPICAL GATE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-02
APPROVED BY: BRB		ID: PW-02-FH.dwg



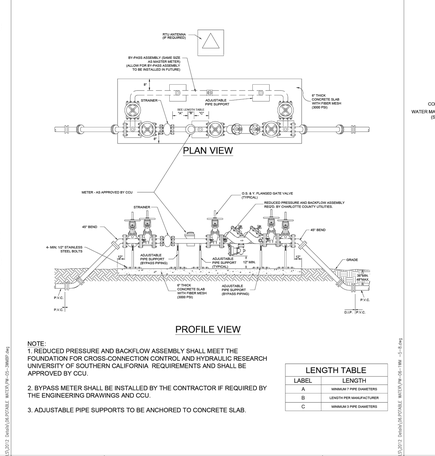
DATE: 11/01/2011	FIRE HYDRANT PROTECTION IN PAVED SERVICE AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-03
APPROVED BY: BRB		ID: PW-03-FHP.dwg



NOTE:

1. DOUBLE DETECTOR CHECK ASSEMBLY SHALL MEET FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.
2. BACKFLOW CAN HAVE BUILT IN FDC IF SHOWN ON THE ENGINEERING DRAWINGS.
3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

DATE: 11/01/2011	4"-10" BACKFLOW PREVENTION ASSEMBLY FOR FIRE LINE SYSTEMS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-04
APPROVED BY: BRB		ID: PW-04-FLBF.dwg



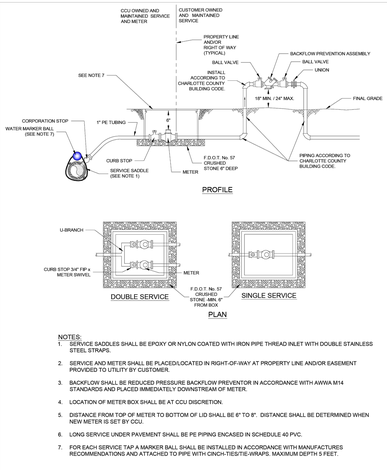
NOTE:
1. REDUCED PRESSURE AND BACKFLOW ASSEMBLY SHALL MEET THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH UNIVERSITY OF SOUTHERN CALIFORNIA REQUIREMENTS AND SHALL BE APPROVED BY CCU.

2. BYPASS METER SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY THE ENGINEERING DRAWINGS AND CCU.

3. ADJUSTABLE PIPE SUPPORTS TO BE ANCHORED TO CONCRETE SLAB.

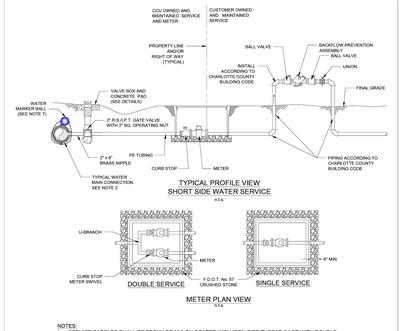
LENGTH TABLE	
LABEL	LENGTH
A	MINIMUM 7 PIPE DIAMETERS
B	LENGTH PER MANUFACTURER
C	MINIMUM 5 PIPE DIAMETERS

DATE: 11/01/2011	3" & ABOVE WATER METERS WITH PROVISION FOR BY-PASS ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-05
APPROVED BY: BRB		ID: PW-05-3WMBP.dwg



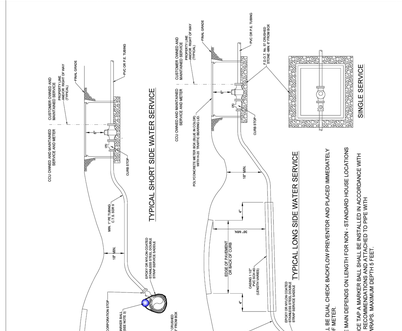
NOTES:
1. SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
2. SERVICE AND METER SHALL BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
3. BACKFLOW SHALL BE REDUCED PRESSURE BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
4. LOCATION OF METER BOX SHALL BE AT CCU DISCRETION.
5. DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 9". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
6. LONG SERVICE UNDER PAVEMENT SHALL BE PIPING ENCASED IN SCHEDULE 40 PVC.
7. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	5/8" - 1" WATER METER WITH BACKFLOW PREVENTER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-06
APPROVED BY: BRB		ID: PW-06-1WM -5-8.dwg



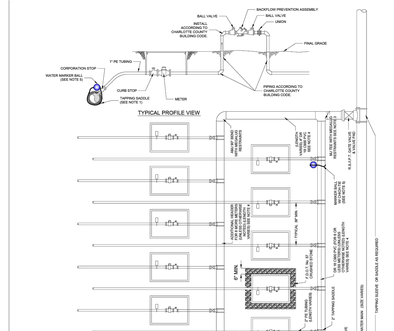
NOTES:
1. SERVICE SADDLES SHALL BE EPOXY OR NYLON COATED WITH IRON PIPE THREAD INLET WITH DOUBLE STAINLESS STEEL STRAPS.
2. SERVICE AND METER TO BE PLACED/LOCATED IN RIGHT-OF-WAY AT PROPERTY LINE AND/OR EASEMENT PROVIDED TO UTILITY BY CUSTOMER.
3. BACKFLOW SHALL BE REDUCED PRESSURE OR DUAL CHECK BACKFLOW PREVENTOR IN ACCORDANCE WITH AWWA M14 STANDARDS AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
4. LONG SERVICE UNDER PAVEMENT SHALL BE PE PIPING INCASED IN SCHEDULE 40 PVC.
5. DISTANCE FROM TOP OF METER TO BOTTOM OF LID SHALL BE 6" TO 9". DISTANCE SHALL BE DETERMINED WHEN NEW METER IS SET BY CCU.
6. LOCATION OF METER BOX SHALL BE IN ACCORDANCE WITH CCU.
7. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	1 1/2" - 2" WATER METER WITH BACKFLOW PREVENTER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-07
APPROVED BY: BRB		ID: PW-07-2WM.dwg



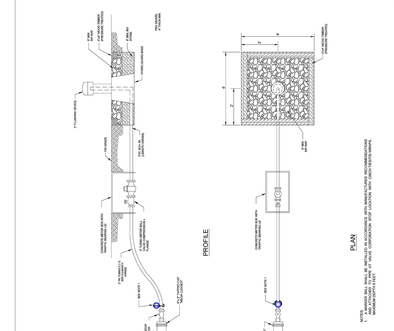
NOTE:
1. BACKFLOW SHALL BE DUAL CHECK BACKFLOW PREVENTOR AND PLACED IMMEDIATELY DOWNSTREAM OF METER.
2. SIZE OF SERVICE MAIN DEPENDS ON LENGTH FOR NON - STANDARD HOUSE LOCATIONS
3. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	TYPICAL 5/8" - 1" WATER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-08
APPROVED BY: BRB		ID: PW-08-TWS.dwg

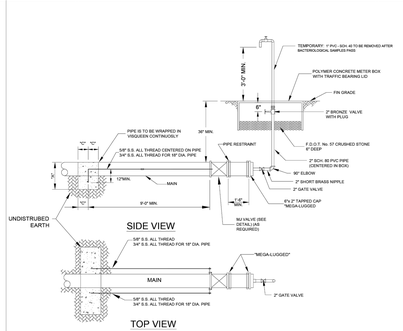


NOTES:
1. SIZE OF MAIN WILL BE DETERMINED BY ESTIMATED FLOW
2. A SINGLE ROW METER BANK IS TO BE INSTALLED WITH A METER AT THE PROPERTY LINE AND/OR EASEMENT. IF A DOUBLE ROW OF METERS IS USED, AN EASEMENT FOR THE SECOND ROW IS REQUIRED.
3. SEPARATE TAP CAN BE ELIMINATED AND REPLACED WITH 90° BEND BASED ON FLOWS AND NUMBER OF METERS
4. 4" PVC SHOWN AS TYPICAL PIPING DIAMETER. PIPING TO BE SIZED BASED ON THE NUMBER OF METERS AND REQUIRED FLOWS.
5. FOR EACH SERVICE TAP A MARKER BALL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND ATTACHED TO PIPE WITH CINCH-TIES/TIE-WRAPS. MAXIMUM DEPTH 5 FEET.

DATE: 11/01/2011	METER BANK DETAIL FOR 5/8" - 1" COMMERCIAL WATER METERS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-10
APPROVED BY: BRB		ID: PW-10-WMB.dwg

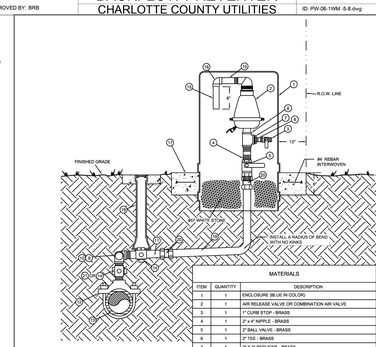


DATE: 11/01/2011	AUTOMATIC FLUSHING ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-11
APPROVED BY: BRB		ID: PW-11-AFA.dwg



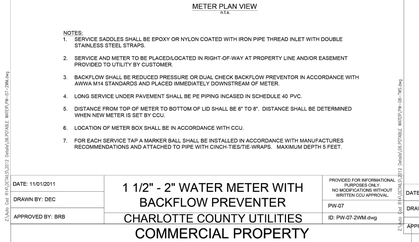
PIPE SIZE	"A"	"B"	"C"
4"	12"	18"	6"
6"	18"	22"	6"
8"	24"	29"	9"
10"	30"	35"	9"
12"	36"	41"	9"
16"	48"	53"	12"
18"	48"	67"	12"

DATE: 11/01/2011	PERMANENT END OF MAIN BLOW-OFF ASSEMBLY (WATER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-13
APPROVED BY: BRB		ID: PW-13-PBO.dwg



NOTE:
ITEM # 21 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

DATE: 11/01/2011	POTABLE WATER AUTOMATIC AIR RELEASE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-14
APPROVED BY: BRB		ID: PW-14-ARV-.dwg



NOTES;

1. WATER METER SHALL BE ASSEMBLED WITH PROPER METER COUPLINGS.
2. WATER METER (READING U.S. GALLONS) TO BE SUPPLIED BY CHARLOTTE COUNTY UTILITIES DEPARTMENT.
3. REDUCED PRESSURE BACKFLOW DEVICE MUST BE APPROVED BY, THE UNIVERSITY OF CALIFORNIA FOUNDATION FOR CROSS-CONECTION CONTROL AND HYDRAULIC RESEARCH. AND CHARLOTTE COUNTY UTILITIES CROSS CONNECTION POLICY.
4. ALL ABOVE GROUND PIPING AND FITTINGS SHALL BE COPPER OR BRASS MEETING NSF 61 STANDARDS.
5. BACKFLOW ASSEMBLY MUST BE CERTIFIED BEFORE BEING PLACED INTO SERVICE.
6. IF ASSEMBLY IS LOCATED WITHIN 4' PROXIMITY TO A DRIVEWAY OR ROAD, TWO BOLLARDS SHALL BE PLACED PARALLEL TO THE DRIVEWAY OR ROAD FOR PROTECTION.

DATE: November 21, 2018	COMMERCIAL PROPERTY 3/4" - 2" WATER METER WITH BACKFLOW ASSEMBLY	PROVIDED FOR INFORMATIONAL PURPOSES ONLY NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC	CHARLOTTE COUNTY UTILITIES	PW-20
APPROVED BY: BRB		ID: PW-20-WM-AG-COM.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 7

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	30

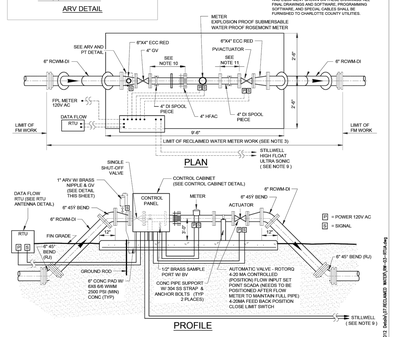
S:\JOBS\4500'S\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/17/2025 11:56 PM TODD HANN

MECHANICAL / ELECTRICAL EQUIPMENT SCHEDULE

NOTES:

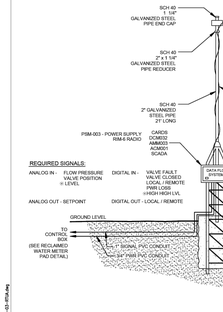
1. ALL AUXILIARY EQUIPMENT AND POWER SUPPLIES SHALL BE SUPPLIED BY THE CONTRACTOR TO MAKE ALL OF THE FOLLOWING FULLY FUNCTIONAL AS INTENDED.
2. ALL BOLTS AND NUTS TO BE STAINLESS STEEL.
3. START-UP SHALL INCLUDE EQUIPMENT FACTORY REPRESENTATIVES TO REVIEW INSTALLATION, MAKE ADJUSTMENTS AND PERFORM START-UP AND INSTRUCT OWNER'S PERSONNEL IN THE OPERATIONS AND MAINTENANCE OF THE EQUIPMENT.
4. ALL EQUIPMENT THAT IS EXPOSED TO THE WEATHER SHALL BE IN NEMA 4X HOUSING.
5. ALL EXPOSED PIPE, FITTINGS, VALVES, AND NON-GALVANIZED FERROUS METALS TO BE PAINTED WITH ONE COAT PRIMER AND TWO COATS OF FINISH PAINT. SURFACE PREPARATION, PAINTING AND CONTROLS.
6. ALL PIPING INCLUDING HOT SENSOR (HL) SHALL BE DUCTILE IRON.
7. THE LOCATION OF THE RO/WM METER PAD TO BE DETERMINED BY OWNER.
8. RECLAIMED WATER METER PAD IS PART OF THE DELIVERY FACILITIES. (SEE FOND DELIVERY FACILITY DETAIL.)
9. FOR DIRECT FEED DELETE STILLWELL AND HIGH LEVEL SENSOR. PROVIDE ENCLOSURE AND ASSOCIATED WIRING TO CONTROL PANEL.
10. MINIMUM LENGTH OF THE PIPE PER MANUFACTURER'S RECOMMENDATIONS.
11. MINIMUM LENGTH OF THE PIPE PER MANUFACTURER'S RECOMMENDATIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLATION TESTING, CALIBRATING, AND OTHERWISE MAKING OPERATIONAL ALL DEVICES AND EQUIPMENT SHOWN ON THE DRAWINGS AND SPECIFIED. FINAL DRAWINGS AND SOFTWARE, PROGRAMMING SOFTWARE, AND SPECIAL CABLES SHALL BE FURNISHED TO CHARLOTTE COUNTY UTILITIES.





DATE: 11/01/2011	RECLAIMED WATER METER PAD	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-01-RWMP.dwg

NOTE: HEADER FREQUENCY TO BE DETERMINED BY SITE LOCATION



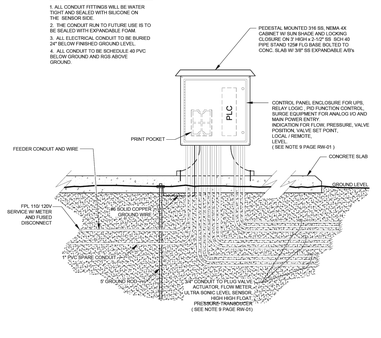
REQUIRED SIGNALS:

ANALOG IN -	FLOW PRESSURE VALVE POSITION = LEVEL	DIGITAL IN -	VALVE FAULT VALVE CLOSED LOCAL / REMOTE POWER LOSS HIGH-HIGH LVL
ANALOG OUT - SETPOINT		DIGITAL OUT - LOCAL / REMOTE	

DATE: 11/01/2011	RTU ANTENNA DETAIL (RECLAIMED WATER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-03-RTUA.dwg

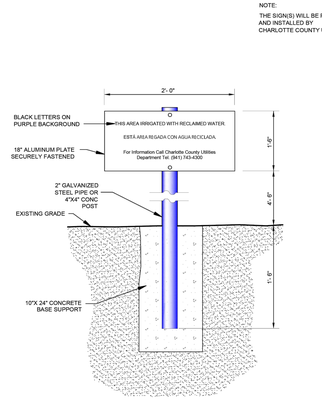
ELECTRICAL CONDUIT NOTES

1. ALL CONDUIT FITTINGS WILL BE WATER TIGHT AND SEALED WITH SILICONE ON THREADED JOINTS.
2. THE CONDUIT RUN TO FUTURE USE IS TO BE SEALED WITH EXPANDABLE FOAM.
3. ALL ELECTRICAL CONDUIT TO BE BURIED 24" BELOW FINISHED GROUND LEVEL.
4. ALL CONDUIT TO BE SCHEDULE 40 PVC BELOW GROUND AND RGS ABOVE GROUND.

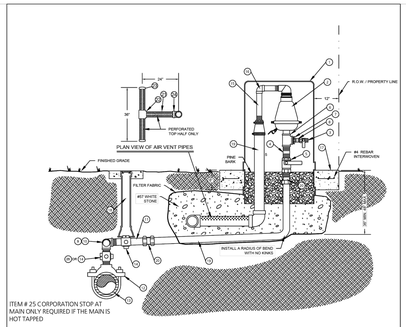


DATE: 11/01/2011	CONTROL PANEL DETAIL (RECLAIMED WATER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-04
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-04-CP.dwg

NOTE:
THE SIGN(S) WILL BE PROVIDED AND INSTALLED BY CHARLOTTE COUNTY UTILITIES

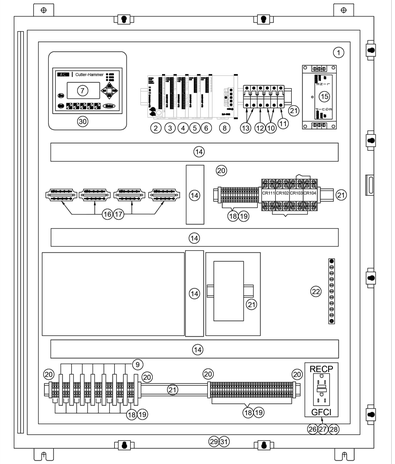


DATE: 11/01/2011	RECLAIMED WATER SIGN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-05-RWS.dwg



MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (PURPLE IN COLOR)
2	1	AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE
3	1	1" CURB STOP - BRASS
4	2	2" x 6" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90° ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80 - LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" & LARGER PIPE, D.I., PVC (DR 18), HDPE
14	1	2" GATE VALVE
15	3	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	2" PIPE, PVC, LENGTH AS SHOWN, PERFORATED TOP HALF ONLY
22	1	2" TEE, PVC
23	1	2" CAP, PVC
24	1	3" X 90° ELBOW, PVC
25	1	2" CORP STOP - BRASS

DATE: 11/01/2011	RECLAIMED WATER AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		RW-06
APPROVED BY: TGD	CHARLOTTE COUNTY UTILITIES	ID: RW-06-ARV-OS.dwg



DATE: 11/01/2011	RTU CONTROL PANEL (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		RW-07
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-07-CP-PF.dwg

BILL OF MATERIAL

ITEM	QTY.	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	HOFFMAN		ENCLOSURE, TYPE 4X, 316 SS, 38"H X 30"W x 12"D, W/ISLSHIELD
2	1	HOFFMAN		SUBPANEL
3	1	HOFFMAN		PADLOCK KIT
4	1	EATON or eq	ELC-PC12NNAR	PROCESSOR w/RS232 & RS485 MODBUS-RTU
5	1	EATON or eq	ELC-AN04NNN	4 ANALOG INPUT
6	1	EATON or eq	ELC-AN04NNAN	4 ANALOG OUTPUT
7	1	EATON or eq	ELC-EX08NNAN	8 DIGITAL INPUT A/C 120V
8	1	EATON or eq	ELC-EX08NNNR	8 RELAY OUTPUT
9	1	EATON or eq	GP-04	GRAPHICAL DISPLAY w/FUNCTION BUTTONS RS-485
10	1	EATON or eq	ELC-PS02	24VCG POWER SUPPLY 2 AMPS
11	8	IMO	ERF3LD24DC	REMOVABLE FUSE HOLDER, 5x20mm
12	2	CHINT	NB1-B6-1P	CIRCUIT BREAKER, B CURVE, 6A
13	1	SQUARE D	9080GSB150	CIRCUIT BREAKER, 1 POLE, 250 VAC, 15 AMP
14	1	CHINT	NB1-B2-1P	CIRCUIT BREAKER, B CURVE, 2A
15	1	CHINT	NB1-B1-1P	CIRCUIT BREAKER, B CURVE, 1A
16	A/R	PANDUIT	TYPE F	WIRE DUCT, WHITE, NON-SLIP COVER (REFER TO DIMENSIONS ON LAYOUT)
17	1	EDCO	HSP121BT-1RU	SURGE SUPPRESSOR, 120 VAC
18	4	EDCO	PC64ZC-03BX	SURGE SUPPRESSOR, ANALOG SIGNAL
19	4	EDCO	PC-B1B	SURGE SUPPRESSOR, BASE
20	79	WEIDMULLER	1020100000	PASS THROUGH TERMINAL BLOCK, BOX LUGS, 30 AMPS, WDU 4
21	A/R	WEIDMULLER	1050000000	TERMINAL BLOCK ENDPLATE FOR WDU 4 TERMINALS
22	A/R	WEIDMULLER	0381000000	TERMINAL BLOCK END BRACKET TYPE EW 35
23	A/R	SQUARE D		DIN RAIL, 35mm, ZINC PLATED PERFORATED
24	1	SQUARE D	9080GTA	GROUND BAR KIT (9) TERMINALS
25	4	SQUARE D	8501RS42V20	2 POLE, DOUBLE THROW, 120V DC CONTROL RELAY CR111, CR102, CR103, CR104
26	4	OMRON	PTF08ALE	CONTROL RELAY BASE, DIN RAIL MOUNTED
27	1	ARRO HART	GROUND FAULT RECEPTACLE	GFI DUPLEX RECEPTACLE, 125 VAC, 15 AMP
28	1	RED DOT	D1151UM	SINGLE GANG BOX
29	1	HUBBLE	S-26	COVER PLATE, GFCI OUTLET, STAINLESS STEEL
30	1	APC		UPS, 750 VA, 120 VAC INPUT
31	1	ALLIED ENCLOSURE	AM6641	6x6x4, NEMA 4x, HINGED SCREW COVER, FIBERGLASS
32	1	POWER FIRST	1FD92	14 GAUGE, 3 CONDUCTOR, 15 AMP, 120 V, TYPE SJT, PVC JACKET, NEMA PLUG 5-15P
33	8	BUSSMANN	S500-32-R	32ma FAST ACTING 5x20mm

1) ITEM #29 & #31 FITS IN ENCLOSURE BOTTOM.

DATE: 11/01/2011	BILL OF MATERIAL (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-08
APPROVED BY: TGD	CHARLOTTE COUNTY UTILITIES	ID: RW-08-CP-BOM.dwg

DATE: 11/01/2011	CONTROL SCHEMATIC #1 (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-09
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-09-SCH-1-PF.dwg

DATE: 11/01/2011	CONTROL SCHEMATIC #2 (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-10
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-10-SCH-2-PF.dwg

DATE: 11/01/2011	CONTROL SCHEMATIC #3 (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-11
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-11-SCH-3-PF.dwg

DATE: 11/01/2011	CONTROL SCHEMATIC #4 (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-12
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-12-SCH-4-PF.dwg

DATE: 11/01/2011	CONTROL SCHEMATIC #5 (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-13
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-13-SCH-5-PF.dwg

RE-USE WATER DELIVERY STATION CONTROLS NOTES:

THE RE-USE WATER DELIVERY STATION IS DESIGNED TO AUTOMATICALLY SUPPLY RE-USED WATER. THE SYSTEM OPERATES AS FOLLOWS:

1. **THE RE-USE WATER SYSTEM IS ALWAYS MAINTAINED BY ONE OR MORE OF THE FOLLOWING METHODS (DEPENDING ON SYSTEM DESIGN) (CHARLOTTE COUNTY UTILITIES DOES NOT GUARANTEE PRESSURE OR FLOW RATE)**
2. **RE-USE WATER FLOWS AT A RATE GOVERNED BY AN AUTOMATIC ACTUATOR THE FLOW RATE DEPENDS ON THE SETPOINT LOCAL DISPLAY OR THROUGH THE SCADA RTU**

THE PROCESS IS MONITORED IN REAL TIME THROUGH DATAFLOW SYSTEMS' RTU.
THE RTU IS USED TO MONITOR/CONTROL THE DELIVERY STATION OPERATIONS. THE REAL TIME DATA FROM THE DELIVERY SYSTEM CONNECTS TO A SCADA SYSTEM AT THE EASTPORT OR WESTPORT WWR.

THE SCADA SYSTEM ALLOWS THE SYSTEM OPERATORS TO VIEW IN REAL TIME THE FOLLOWING PARAMETERS:

SYSTEM DELIVERY PRESSURE.
THE RE-USE WATER FLOW RATE.
THE RE-USE WATER LEVEL.
AND ANY ALARM CONDITIONS.

THE OPERATORS CAN SET THE DESIRED FLOW USING THE SCADA SYSTEM OR THE LOCAL DISPLAY. THE FEED VALVE WILL MODULATE TO MAINTAIN CORRECT FLOW (+/- 100PM) THE VALVE WILL NOT HUNT.

AN UNINTERRUPTIBLE POWER SUPPLY (UPS) IS SUPPLIED TO PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION AND TO ALLOW THE SYSTEM TO OPERATE FOR A BRIEF PERIOD OF TIME IF NORMAL AC POWER IS LOST.
THE PLC WILL AUTOMATICALLY CLOSE THE ISOLATION VALVE UPON LOSS OF LOCAL AC POWER AND AN ALARM WILL BE SENT TO THE SCADA RTU.
THE CONTROLS ARE HOUSED IN A LOCKED STAINLESS STEEL ENCLOSURE (NEMA 4X).

NOTES ON 120 V AC FEED TO RE-USE WATER DELIVERY STATION:

1. OBTAIN 120 V AC, 20 AMP CIRCUIT FROM NEARBY 120 V AC SOURCE. DO NOT PROVIDE NEW SERVICE UNLESS NO OTHER SOURCE OF POWER IS AVAILABLE. SEE PROJECT CIVIL PLANS FOR LOCATION OF POWER SOURCE. PROVIDE DIRECT BURIAL TYPE UF FEEDER TO RE-USE WATER DELIVERY STATION PER DIRECTIONS ON THIS SHEET. IN MOST CASES, POWER WILL BE OBTAINED FROM LOCAL PUMP HOUSE.
   - IF NECESSARY, PROVIDE A NEW SERVICE WITH METER AND SMALL 2HO 120 V AC DISTRIBUTION PANEL WITH (1) 20 AMP BREAKER AND (1) 15 AMP BREAKER IN PUMP HOUSE/GARAGE WITH 100 AMP MAIN BREAKER AND 20 AMP FEEDER BREAKER TO THE RTU AND CONTROLS.
2. COORDINATE WITH CHARLOTTE COUNTY UTILITIES AND LOCAL ELECTRIC UTILITY AS NECESSARY. THE LOCATION AND PHYSICAL ARRANGEMENT OF NEW SERVICE IF ANY, WILL DEPEND ON BEST PHYSICAL ARRANGEMENT AND IS TO BE DETERMINED IN THE FIELD ON A CASE BY CASE BASIS.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (N.E.C.) LATEST EDITION. CONTRACTOR TO OBTAIN ALL PERMITS AND ARRANGE FOR ALL INSPECTIONS WITH AUTHORITIES HAVING JURISDICTION.
2. CONDUITS, RACEWAYS AND CABLES SHALL BE PROPERLY AND SECURELY ATTACHED TO STRUCTURAL COMPONENTS AS REQUIRED BY THE N.E.C. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH LOCATION AND ALL CONDITIONS ENCOUNTERED. CONDUIT ENDS MUST BE SEALED WITH FOAM OR EQUAL, IN A MANNER THAT IS EASILY REMOVED FOR FUTURE WORK.
3. EACH OUTLET OR JUNCTION IN ANY OF THE WIRING SYSTEMS SHALL BE MADE IN AN APPROVED MANNER SUITABLE FOR THE PURPOSE. THE SIZE AND NUMBER OF CONDUCTORS AND DEVICES TO BE INSTALLED, AS WELL AS ANY ADVERSE CONDITIONS ENCOUNTERED. ALL SPLICES SHALL BE MADE WITH APPROVED, MECHANICAL CONNECTORS.
4. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION ABOUT EQUIPMENT WHICH IS BEING FURNISHED FOR COORDINATION PURPOSES. THE CONTRACTOR SHALL PROVIDE ALL INSTALLATION DETAILS AND SUPPORT COMPONENTS, SO THAT THESE MAY BE BUILT INTO THE CONSTRUCTION IN A TIMELY MANNER.
5. ALL RACEWAYS SHALL BE PROVIDED WITH CONTINUOS EQUIPMENT GROUNDING CONDUCTORS. ALL EQUIPMENT SHALL BE GROUNDED AS REQUIRED BY THE N.E.C. ELECTRICAL RACEWAYS ARE SHALL BE IN ACCORDANCE WITH N.E.C. ARTICLE 250.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLATION TESTING, CALIBRATING, AND OTHERWISE MAKING OPERATIONAL ALL DEVICES AND EQUIPMENT SHOWN ON THE DRAWINGS AND SPECIFIED. FINAL DRAWINGS AND SOFTWARE, PROGRAMMING SOFTWARE, AND SPECIAL CABLES SHALL BE FURNISHED TO CHARLOTTE COUNTY UTILITIES.
7. IT IS THE INTENT OF DRAWINGS AND SPECIFICATION TO OBTAIN A COMPLETE AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO OPERATE AND DEFINE THE WORK OF THE CONTRACTOR. DRAWINGS ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE PROJECT AND THE WORK OF OTHER TRADES WILL PERMIT. THE DRAWINGS ARE NOT INTENDED TO BE SHOP DRAWINGS TO INDICATE VARIOUS ITEMS OF WORK. THEREFORE, NO INTERPRETATION WILL BE MADE FROM THE LIMITATION OF SYMBOLS AND DIAGRAMS AS TO THE EXACT LOCATION OF EQUIPMENT, OUTLETS, ETC. THE CONTRACTOR SHOULD BE NOTIFIED OF DISCREPANCIES, DIMENSIONS, CONFLICTS OR INTERFERENCES WHICH MAY OCCUR BETWEEN VARIOUS DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS NOT RECEIVED, THE INSTALLING CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THEIR INTERPRETATIONS.
8. ALL CONDUITS TO BE SCHEDULE 80 PVC, EXCEPT WHERE EXPOSED TO HAZARDOUS CONDITIONS IN WHICH CASE IT SHALL BE RIGID GALVANIZED STEEL.
9. FUSE 1-120 MA LOOP POWERED CIRCUIT WITH 0.032 AMP FUSES.
10. GROUND INSTRUMENT CABLE SHIELDS AT ONE END ONLY.
11. BURY DIRECT BURIAL FEEDER TYPE UF 24" BELOW GRADE. PROVIDE PLASTIC WARNING TAPE 12" ABOVE FEEDER IN TRENCH.

DATE: 11/01/2011	DELIVERY STATION NOTES (RECLAIMED WATER-POND FED)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DJS		RW-14
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: RW-14-DSN-PF.dwg

RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS] PROVIDED BY BANKS ENGINEERING

CCU PROJECT NUMBER: 23-1026

PREPARED FOR:

CC BURNT STORE, LLC
111 S. ARMENIA AVENUE, SUITE 201
TAMPA FL, 33609
(813) 443-0809

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCE: NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS P.E.
FL. LICENSE #82437

UTILITY DETAILS - 8

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C		RWP	DCT	TRR	N.T.S.	31

S:\JOBS\4570\CAD\CONSTRUCTION\RECORD DRAWINGS\UTILITIES\4570C-24-UTILITY DETAILS.DWG 4/17/2025 1:56 PM TODD VANA

SANITARY SEWER RECORD POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
473	913417.020	649261.910	4.55	GV,2,DI,2024
482	913313.899	649460.050	4.19	FM,8,PVC,2024
483	913251.760	649538.970	4.55	FM,8,PVC,2024
484	913212.136	649582.357	8.53	FM,8,PVC,2024
494	912566.918	650127.995	8.21	FM,4,PVC,2024
498	912664.844	650121.448	7.87	FM,4,PVC,2024
499	912762.125	650110.418	8.09	FM,4,PVC,2024
500	912859.489	650091.764	8.36	FM,4,PVC,2024
502	912955.211	650062.550	8.00	FM,4,PVC,2024
505	913050.137	650037.953	11.91	FM,4,PVC,2024
507	913158.811	649858.761	6.51	FM,8,PVC,2024
508	913144.338	649760.079	6.48	FM,8,PVC,2024
509	913156.057	649663.029	9.14	FM,8,PVC,2024
510	913205.124	649590.832	4.82	FM,8,PVC,2024
511	913153.772	650047.394	6.02	TEE,8X8X8,DI,2024
512	913152.535	650050.212	5.90	RED,8X6,DI,2024
513	913150.782	650046.809	5.83	RED,8X4,DI,2024
520	913115.225	650208.240	6.64	FM,6,PVC,2024
521	913129.975	650150.056	6.83	FM,6,PVC,2024
537	912939.684	650060.717	12.06	CO,6,PVC,2025
538	912616.730	650120.472	12.07	CO,6,PVC,2025
539	912599.272	650121.527	12.18	CO,6,PVC,2025
540	912503.143	650126.636	12.93	CO,6,PVC,2025
541	912466.208	650132.553	14.45	FM,4,PVC,2024
542	912406.076	650132.624	14.47	CO,6,PVC,2025
543	912461.082	650176.956	13.70	CO,6,PVC,2025
544	912577.642	650170.560	11.94	CO,6,PVC,2025
545	912594.023	650169.572	11.86	CO,6,PVC,2025
551	913148.828	650046.059	6.27	PV,4,DI,2024
1016	913085.808	650341.192	7.08	FM,6,PVC,2024
1017	913106.414	650247.379	6.94	FM,6,PVC,2024
1018	913071.621	650442.306	7.04	FM,6,PVC,2024
1020	913065.344	650538.582	7.23	FM,6,PVC,2024
1023	913065.192	650639.350	7.83	FM,6,PVC,2024
1029	913065.258	650739.126	7.86	FM,6,PVC,2024
1031	913062.680	650829.865	7.87	FM,6,PVC,2024
1037	913045.832	650936.720	7.54	FM,6,PVC,2024
1042	913017.904	651032.329	9.34	FM,6,PVC,2024
1043	913004.614	651068.575	9.51	FM,6,PVC,2024
1971	912421.291	650134.825	9.98	PV,4,DI,2025
1972	912848.586	650159.109	16.26	CO,6,PVC,2025
1973	912845.190	650224.085	16.01	CO,6,PVC,2025
1974	912792.579	650239.648	14.33	CO,6,PVC,2025
1975	912827.312	650306.842	15.29	CO,6,PVC,2025
1976	912777.421	650316.698	15.28	CO,6,PVC,2025
1977	912814.186	650392.989	11.79	CO,6,PVC,2025
1978	912765.730	650394.405	14.36	CO,6,PVC,2025
1979	912760.003	650467.713	11.70	CO,6,PVC,2025
1980	912807.498	650476.668	11.99	CO,6,PVC,2025
1981	912806.330	650499.506	11.70	CO,6,PVC,2025
1982	912758.637	650501.393	13.59	CO,6,PVC,2025
1983	912758.638	650575.850	11.64	CO,6,PVC,2025
1984	912805.825	650580.189	12.52	CO,6,PVC,2025
1985	912805.840	650660.323	12.63	CO,6,PVC,2025
1986	912758.576	650656.151	12.26	CO,6,PVC,2025
1987	912759.508	650735.966	12.92	CO,6,PVC,2025
1988	912806.569	650740.139	13.29	CO,6,PVC,2025
1989	912805.074	650817.908	13.05	CO,6,PVC,2025
1990	912755.497	650831.430	12.95	CO,6,PVC,2025
1991	912791.796	650893.065	13.18	CO,6,PVC,2025
1992	912728.905	650932.935	13.58	CO,6,PVC,2025
1993	912766.363	650966.672	14.35	CO,6,PVC,2025
1994	912699.785	651007.995	14.17	CO,6,PVC,2025
1995	912740.357	651035.042	14.46	CO,6,PVC,2025
1996	912711.545	651109.203	14.82	CO,6,PVC,2025
1997	912668.586	651092.894	14.37	CO,6,PVC,2025
1998	912639.051	651165.290	14.79	CO,6,PVC,2025
1999	912683.108	651183.775	15.33	CO,6,PVC,2025
2000	912653.162	651261.895	15.36	CO,6,PVC,2025
2001	912610.642	651240.068	14.95	CO,6,PVC,2025
2002	912588.052	651314.722	15.30	CO,6,PVC,2025
2003	912628.473	651352.609	15.88	CO,6,PVC,2025
2004	912572.968	651390.822	15.53	CO,6,PVC,2025
2005	912613.632	651446.658	16.16	CO,6,PVC,2025
2006	912566.508	651464.641	15.98	CO,6,PVC,2025
2007	912564.614	651487.787	15.78	CO,6,PVC,2025
2008	912611.366	651549.318	16.31	CO,6,PVC,2025
2009	912565.625	651561.377	16.27	CO,6,PVC,2025
2010	912612.069	651627.920	16.96	CO,6,PVC,2025
2011	912565.494	651641.265	16.73	CO,6,PVC,2025
2012	912612.362	651708.287	17.20	CO,6,PVC,2025
2013	912564.710	651721.250	16.78	CO,6,PVC,2025
2014	912612.501	651788.744	16.88	CO,6,PVC,2025
2015	912565.013	651801.714	16.25	CO,6,PVC,2025
2016	912612.403	651868.540	17.21	CO,6,PVC,2025
2017	912564.994	651881.060	18.75	CO,6,PVC,2025
2018	912611.988	651949.287	17.27	CO,6,PVC,2025
2019	912544.601	651961.984	17.14	CO,6,PVC,2025
2020	912526.690	652079.851	17.62	CO,6,PVC,2025
2021	912577.186	652088.420	17.50	CO,6,PVC,2025
2022	912595.977	652081.858	17.83	CO,6,PVC,2025
2023	912612.435	652028.788	17.38	CO,6,PVC,2025
2024	912987.053	651093.659	13.24	CO,6,PVC,2025
2025	913025.949	650989.966	13.09	CO,6,PVC,2025
2026	913128.486	650894.912	12.91	CO,6,PVC,2025
2027	913052.880	650870.863	11.77	CO,6,PVC,2025
2028	913109.887	650830.591	11.40	CO,6,PVC,2025
2029	913059.021	650754.948	11.75	CO,6,PVC,2025
2030	913106.761	650732.105	12.09	CO,6,PVC,2025
2031	913058.916	650655.384	12.37	CO,6,PVC,2025
2032	913106.546	650631.195	11.68	CO,6,PVC,2025
2033	913058.347	650554.862	11.66	CO,6,PVC,2025
2034	913106.675	650533.085	12.80	CO,6,PVC,2025
2035	913107.500	650506.057	11.09	CO,6,PVC,2025
2036	913063.191	650443.155	11.43	CO,6,PVC,2025
2037	913116.286	650402.676	11.43	CO,6,PVC,2025
2038	913077.075	650346.160	11.15	CO,6,PVC,2025
2039	913137.618	650295.086	11.56	CO,6,PVC,2025
2040	913098.813	650250.163	12.04	CO,6,PVC,2025
2041	913159.919	650198.749	11.84	CO,6,PVC,2025
2042	913302.497	650142.375	13.07	CO,6,PVC,2025
2043	913478.011	650246.637	11.13	CO,6,PVC,2025
2044	913548.410	650324.049	11.25	CO,6,PVC,2025
2045	913623.633	650409.136	11.51	CO,6,PVC,2025
2046	913708.774	650425.507	12.43	CO,6,PVC,2025
2047	913701.891	650418.709	12.16	CO,6,PVC,2025
2048	913694.256	650475.337	11.33	CO,6,PVC,2025
2049	913774.734	650527.697	11.10	CO,6,PVC,2025
2050	913815.490	650493.965	10.82	CO,6,PVC,2025
2051	913863.843	650564.280	10.93	CO,6,PVC,2025
2052	913957.508	650583.993	11.31	CO,6,PVC,2025
2053	913940.793	650522.453	11.59	CO,6,PVC,2025
2055	912412.285	650135.243	9.01	CAP,4,DI,2024
2056	912543.384	650128.466	8.33	FM,4,PVC,2024
2059	912644.862	650122.030	8.24	FM,4,PVC,2024
2061	912742.755	650113.344	8.09	FM,4,PVC,2024
2063	912875.640	650086.764	8.09	FM,4,PVC,2024
2065	912970.966	650057.839	7.73	FM,4,PVC,2024
2067	913072.052	650037.146	7.12	FM,4,PVC,2024
2070	913152.007	650051.800	6.10	PV,6,DI,2024
3198	912712.045	650114.116	12.11	CO,6,PVC,2025
3199	912811.389	650098.635	12.32	CO,6,PVC,2025
3201	913327.900	649320.832	4.71	TS,16X8X16,DI,2024
3202	913416.927	649257.823	3.82	TS,16X2X16,DI,2024
10011	912986.234	651111.773	11.04	45B,6,DI,2024
10012	912989.007	651109.605	11.07	45B,6,DI,2024
11279	913348.960	649486.120	9.29	MH-38A,4,CONC,2024
11283	913387.228	649508.187	11.87	CO,6,PVC,2025
11310	913161.180	649709.130	10.10	MH-39A,4,CONC,2024
11339	913190.548	649896.329	11.03	MH-40A,4,CONC,2024
11345	913163.060	650083.210	13.02	MH-32A,4,CONC,2024
11350	913299.110	650109.620	11.50	MH-31A,4,CONC,2024
11353	913425.210	650165.860	11.18	MH-30A,4,CONC,2024
11356	913555.560	650302.430	10.56	MH-29A,4,CONC,2024
11362	913036.750	650054.230	12.02	MH-43A,4,CONC,2024
11388	913092.180	650365.700	11.06	MH-33A,4,CONC,2024
11438	913079.890	650861.660	12.30	MH-34A,4,CONC,2024
11580	913328.108	649324.448	5.32	PV,8,DI,2024
11582	913170.119	650030.976	15.82	ARV,8,DI,2025
11654	912943.708	651208.760	14.80	CO,6,PVC,2025
11656	912908.209	651302.224	15.66	CO,6,PVC,2025
11658	912877.242	651394.452	15.64	CO,6,PVC,2025
11660	912865.843	651491.708	15.61	CO,6,PVC,2025
11661	912864.403	651511.840	15.55	CO,6,PVC,2025

SANITARY SEWER RECORD POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
11663	912865.088	651608.587	16.68	CO,6,PVC,2025
11665	912865.076	651708.422	17.12	CO,6,PVC,2025
11667	912865.199	651808.053	16.95	CO,6,PVC,2025
11669	912865.112	651908.636	16.34	CO,6,PVC,2025
11671	912865.228	652008.363	17.18	CO,6,PVC,2025
11673	912865.172	652108.488	17.27	CO,6,PVC,2025
11675	912865.587	652204.197	16.90	CO,6,PVC,2025
11676	912976.913	652079.279	16.49	CO,6,PVC,2025
11678	913046.391	652029.973	15.61	CO,6,PVC,2025
11679	912930.860	652031.402	16.76	CO,6,PVC,2025
11680	912912.249	651902.887	16.76	CO,6,PVC,2025
11682	912912.500	651786.986	16.71	CO,6,PVC,2025
11684	912912.516	651686.875	17.06	CO,6,PVC,2025
11686	912912.443	651587.046	15.87	CO,6,PVC,2025
11689	912914.147	651462.658	15.91	CO,6,PVC,2025
11691	912945.556	651336.659	15.47	CO,6,PVC,2025
11693	912983.653	651237.279	14.72	CO,6,PVC,2025
11695	913039.173	651128.898	14.10	CO,6,PVC,2025
11696	913110.930	651168.193	15.19	CO,6,PVC,2025
11697	913122.652	651226.844	14.84	CO,6,PVC,2025
11698	913205.096	651267.951	15.01	CO,6,PVC,2025
11699	913276.078	651303.862	15.10	CO,6,PVC,2025
11700	913348.083	651339.674	14.54	CO,6,PVC,2025
11701	913416.011	651373.490	13.65	CO,6,PVC,2025
11702	913435.594	651383.782	13.78	CO,6,PVC,2025
11703	913503.596	651417.568	14.21	CO,6,PVC,2025
11704	913575.198	651453.877	14.44	CO,6,PVC,2025
11705	913646.802	651489.511	14.31	CO,6,PVC,2025
11706	913717.789	651524.992	14.62	CO,6,PVC,2025
11707	913831.773	651671.741	14.22	CO,6,PVC,2025
11710	913896.955	651647.164	14.81	CO,6,PVC,2025
11712	913942.410	651557.816	13.84	CO,6,PVC,2025
11713	913839.459	651533.237	14.40	CO,6,PVC,2025
11714	913768.195	651497.038	14.88	CO,6,PVC,2025
11715	913696.373	651461.073	14.86	CO,6,PVC,2025
11716	913625.002	651425.444	14.93	CO,6,PVC,2025
11717	913553.233	651389.476	14.66	CO,6,PVC,2025
11718	913481.784	651353.745	14.10	CO,6,PVC,2025
11719	913397.448	651311.151	14.67	CO,6,PVC,2025
11720	913326.253	651275.584	14.67	CO,6,PVC,2025
11722	913254.836	651239.795	14.97	CO,6,PVC,2025
11723	913182.958	651203.770	14.87	CO,6,PVC,2025
11724	913223.854	650942.488	13.84	CO,6,PVC,2025
11725	913295.900	650978.479	14.01	CO,6,PVC,2025
11726	913367.299	651014.245	13.60	CO,6,PVC,2025
11727	913438.523	651049.663	13.28	CO,6,PVC,2025
11728	913510.179	651085.684	13.17	CO,6,PVC,2025
11729	913594.723	651127.970	12.78	CO,6,PVC,2025
11730	913666.062	651163.221	13.08	CO,6,PVC,2025
11731	913737.628	651199.307	13.36	CO,6,PVC,2025
11732	913809.413	651235.136	13.59	CO,6,PVC,2025
11733	913880.481	651271.407	13.63	CO,6,PVC,2025
11734	913952.537	651306.756	13.13	CO,6,PVC,2025
11736	913984.837	651472.653	13.80	CO,6,PVC,2025
11737	913994.944	651453.926	13.79	CO,6,PVC,2025
11739	914036.457	651370.533	13.23	CO,6,PVC,2025
11741	914028.665	651276.562	12.07	CO,6,PVC,2025
11742	913875.134	651215.750	13.95	CO,6,PVC,2025
11743	913803.496	651179.414	13.56	CO,6,PVC,2025
11744	913731.986	651143.672	14.06	CO,6,PVC,2025
11745	913660.953	651108.047	13.04	CO,6,PVC,2025
11746	913592.635	651074.280	12.57	CO,6,PVC,2025
11747	913572.291	651063.487	12.95	CO,6,PVC,2025
11748	913504.827	651029.585	12.64	CO,6,PVC,2025
11749	913433.008	650993.680	13.29	CO,6,PVC,2025
11750	913361.743	650957.466	13.34	CO,6,PVC,2025
11751	913289.684	650921.794	13.67	CO,6,PVC,2025
11752	913227.109	650890.083	13.58	CO,6,PVC,2025
11769	914066.920	650583.858	11.42	CO,6,PVC,2025
11772	914257.533	650626.444	11.61	CO,6,PVC,2025
11774	914286.007	650730.003	12.19	CO,6,PVC,2025
11776	914285.144	650887.897	12.08	CO,6,PVC,2025
11778	914229.057	651018.285	11.67	CO,6,PVC,2025
11780	914154.233	651106.637	12.56	CO,6,PVC,2025
11782	914092.202	651185.486	11.93	CO,6,PVC,2025
11784	914090.073	651274.127	12.64	CO,6,PVC,2025
11786	914152.362	651182.945	12.92	CO,6,PVC,2025
11788	914224.266	651098.501	12.11	CO,6,PVC,2025
11790	914281.966	651022.821	12.36	CO,6,PVC,2025
11792	914320.863	650935.675	12.14	CO,6,PVC,2025
11794	914339.602	650842.720	11.51	CO,6,PVC,2025
11797	914335.031	650738.743	12.01	CO,6,PVC,2025
11799	914302.383	650533.483	12.38	CO,6,PVC,2025
11803	914426.645	650529.419	11.27	CO,6,PVC,2025
11817	914405.844	650481.745	11.25	CO,6,PVC,2025
11819	914312.836	650483.176	12.13	CO,6,PVC,2025
11820	914289.740	650485.030	12.16	CO,6,PVC,2025
11822	914201.147	650506.344	11.93	CO,6,PVC,2025
11824	914090.834	650533.826	11.44	CO,6,PVC,2025
12960	912817.917	650123.673	12.40	MH-42A,4,CONC,2024
12965	912825.409	650172.652	12.18	MH-50A,4,CONC,2024
12968	912422.992	650156.793	13.29	MH-41A,4,CONC,2024
12971	912777.848	650563.964	11.45	MH-51A,4,CONC,2024
12976	912775.047	650883.522	13.08	MH-52A,4,CONC,2024
12981	912728.772	651012.934	13.75	MH-47A,4,CONC,2024
12985	912598.172	651353.943	15.29	MH-46A,4,CONC,2024
12989	912558.955	652037.546	17.22	MH-44A,4,CONC,2024
12993	912588.986	651850.023	16.30	MH-45A,4,CONC,2024
12998	913760.388	650497.298	10.91	MH-28A,4,CONC,2024
13003	913959.101	650564.201	10.39	MH-27A,4,CONC,2024
13004	914065.659	650561.967	10.60	MH-26A,4,CONC,2024
13010	914252.219	650521.762	12.01	MH-4A,4,CONC,2024
13011	914321.244	650813.741	10.99	MH-5A,4,CONC,2024
13016	914279.973	650984.769	11.56	MH-6A,4,CONC,2024
13017	913963.027	651285.333	12.62	MH-35A,4,CONC,2024
13022	913515.859	651061.169	12.35	MH-36A,4,CONC,2024
13023	913140.432	650873.711	12.52	MH-37A,4,CONC,2024
13028	913896.108	651586.606	13.65	MH-8A,4,CONC,2024
13029	913449.021	651362.825	13.56	MH-9A,4,CONC,2024
13035	912889.427	652057.755	16.28	MH-21A,4,CONC,2024
13041	912888.734	651558.757	15.36	MH-22A,4,CONC,2024
13042	912891.303	651416.190	15.22	MH-23A,4,CONC,2024
13051	912999.874	651138.250	14.00	MH-10A,4,CONC,2024
13060	912963.394	651107.075	14.11	LS-1A,8,CONC,2024
13074	912959.372	651124.325	13.97	MH-MASTER,4,CONC,2024
13096	914051.428	651289.317	12.01	MH-7A,4,CONC,2024
13101	914348.249	650500.428	11.29	MH-3A,4,CONC,2024
13110	912889.154	652177.679	16.65	MH-25A,4,CONC,2025

ALL ELEVATIONS ON CIVIL ENGINEERING PLANS REFERENCED NAVD 88

NO.	DATE	REVISION DESCRIPTION	BY

BANKS ENGINEERING
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

RYAN W. POWERS, P.E.
FL LIC #82437

CCU PROJECT NUMBER: 23-1026

PHASES 1A & 1B SANITARY SEWER RECORD DRAWING

RECORD INFORMATION SHOWN [IN BRACKETS]
PROVIDED BY BANKS ENGINEERING

RECORD POINT TABLE

CORAL LAKES - PHASE I

CHARLOTTE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
11-2-22	4570C	_TABLE	RWP	DCT	TRR	N.T.S.	32

CORAL LAKES - PHASE I

S:\JOBS\4XXX\4570C\ENGINEERING\RECORD DRAWINGS\UTILITIES\4570C-25-RECORD POINT TABLES.DWG 4/23/2025 3:13 PM TODD VANA

Attachment 7

Partial Potable Water Clearance

FLORIDA DEPARTMENT OF Environmental Protection

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

Ron DeSantis
Governor

Alexis A. Lambert
Secretary

POTABLE WATER CLEARANCE – PARTIAL

May 1, 2025

CC Burnt Store, LLC
Nicholaas J. Dister
111 S. Amenia Avenue, Suite 201
Tampa, Florida 33609
ksmith@eisenhowerpropertygroup.com

Clearance Type:	Partial
County:	Charlotte
Permit Number:	374803-006-DSGP
PWS ID:	6080318
PWS Name:	Burnt Store Reverse Osmosis Water Treatment Plant
Project Name:	Coral Lakes

Dear Nicholaas J. Dister,

This letter acknowledges receipt of the certification, dated April 21, 2025, for the subject water distribution system. The submitted information demonstrates the system has been constructed in accordance with the FDEP Permit Number above and related plans and materials for the partial work described below 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 partially clearing the system for service. Separate clearance is required for the remainder of the project.

Partial Clearance Limited To: 3,057 LF of 12" PVC DR-18 water main, 8,473 LF of 8" PVC DR-18 water main, and fifteen (15) hydrants.

If you have any questions or comments regarding this partial clearance, please contact Pedro Garcia-Zaragoza at 239-344-5661 or Pedro.GarciaZaragoza@FloridaDEP.gov.

Sincerely,

Jessica Douglas

Jessica Douglas
Environmental Administrator

cc: Ryan W. Powers, P.E., Banks Engineering, rpowers@bankseng.com

Attachment 8

Public Works Department Approval

CORAL LAKES - PHASES 1A

CHARLOTTE COUNTY, FLORIDA
ENGINEER'S OPINION OF PROBABLE COST
PROJECT No. 4570C
3-Jun-25

APPROVED
By Roy Benjamin at 2:49 pm, Aug 04, 2025

Item No.	Description	Quantity	Unit	Unit Price	Extension
	EARTHWORK AND GRADING				
A-1	Silt Fence / Erosion Control	0	LF	$2.80	$0.00
A-2	Emergency Access Drive	0	LS	$58,940.25	$0.00
A-3	Excavation & Grading	0	CY	$3.10	$0.00
				SUBTOTAL=	**$0.00**
	STORM DRAINAGE				
B-1	Type "D" Inlet	0	EA	$102,601.00	$0.00
B-2	Type "H" Inlet	0	EA	$10,315.00	$0.00
B-3	Type "V" Inlet	0	EA	$6,200.00	$0.00
B-5	Type "V" Inlet w/ alt. bottom	0	EA	$0.00	$0.00
B-6	Junction Box	0	EA	$5,620.00	$0.00
B-7	Junction Box (6' Dia.)	0	EA	$0.00	$0.00
B-8	8" ADS Yard Drain Inlet	0	EA	$0.00	$0.00
B-9	12" ADS Yard Drain Inlet	0	EA	$0.00	$0.00
B-10	24" ADS Yard Drain Inlet	0	EA	$0.00	$0.00
B-11	12" ADS Junction Box	0	EA	$0.00	$0.00
B-12	24" Mitered End Section	0	EA	$8,915.00	$0.00
B-13	12" Pipe End Suport	0	EA	$1,850.00	$0.00
B-14	18" Pipe End Suport	0	EA	$2,235.00	$0.00
B-15	24"Pipe End Suport	0	EA	$2,350.00	$0.00
B-16	30" Pipe End Suport	0	EA	$2,785.00	$0.00
B-17	36" Pipe End Suport	0	EA	$2,930.00	$0.00
B-18	48" Pipe End Support	0	EA	$3,340.00	$0.00
B-19	Type "C: Inlet Control Structure W/ Alt. Bottom	0	EA	$0.00	$0.00
B-20	Type "D" Inlet Control Structure	0	EA	$0.00	$0.00
B-21	Type "H" Inlet Control Structure	0	EA	$0.00	$0.00
B-22	8" ADS Pipe	0	LF	$0.00	$0.00
B-23	12" ADS Pipe	0	LF	$43.15	$0.00
B-24	18" ADS Pipe	0	LF	$54.65	$0.00
B-25	24" ADS Pipe	0	LF	$77.45	$0.00
B-26	30" ADS Pipe	0	LF	$127.00	$0.00
B-27	36" ADS Pipe	0	LF	$159.00	$0.00
B-28	48" ADS Pipe	0	LF	$239.00	$0.00
B-29	24" R.C.P.	0	LF	$124.00	$0.00
B-30	Rip Rap	0	SY	$74.45	$0.00
				SUBTOTAL=	**$0.00**
	ROADWAY & SIDEWALKS				
C-1	3/4" Asphalt Type S-III (1st Lift)	0	SY	$8.45	$0.00
C-2	3/4" Asphalt Type S-III (2nd Lift)	21,259	SY	$9.20	$195,582.80
C-3	FDOT Base Group 4	0	SY	$14.35	$0.00
C-4	12" Subgrade LBR 40	0	SY	$6.10	$0.00
C-6	Type "A" Curb	0	LF	$32.00	$0.00
C-7	Type "V" Curb	0	LF	$19.60	$0.00
C-8	4" Thick Concrete Sidewalk (5' Wide)	5,882	SY	$8.00	$47,056.00
C-9	12" Sidewalk Subgrade (LBR-40)	5,882	SY	$4.80	$28,233.60
C-10	Detectable Warning Devices	0	EA	$1,245.00	$0.00
C-11	Sod	0	SY	$2.80	$0.00
C-12	Seed and Mulch	0	AC	$2,200.00	$0.00
C-13	Signage and Striping	0	LS	$16,000.00	$0.00
				SUBTOTAL=	**$270,872.40**

CORAL LAKES - PHASES 1A

CHARLOTTE COUNTY, FLORIDA
ENGINEER'S OPINION OF PROBABLE COST
PROJECT No. 4570C
3-Jun-25

Item No.	Description	Quantity	Unit	Unit Price	Extension
	POTABLE WATER & RECLAIM WATER DISTRIBUTION				
D-1	8" DR-18 C900 PVC Potable Watermain & Fittings	0	LF	$39.35	$0.00
D-2	12" DR-18 C900 PVC Potable Watermain & Fittings	0	LF	$74.30	$0.00
D-3	8" Gate Valve	0	EA	$2,400.00	$0.00
D-4	12" Gate Valve	0	EA	$2,400.00	$0.00
D-5	3/4" Single Water Service	0	EA	$1,570.00	$0.00
D-6	3/4" Double Water Service	0	EA	$1,835.00	$0.00
D-7	2" Service w/ 1.5" BFP / Meter (Amenity)	0	EA	$4,140.00	$0.00
D-8	6" Fire Hydrant Assembly	0	EA	$8,950.00	$0.00
D-9	16" x 8" Tapping Sleeve & Valve	0	EA	$9,595.00	$0.00
D-10	16" x 12" Tapping Sleeve & Valve	0	EA	$12,780.00	$0.00
D-11	Bacteriological Sample Point	0	EA	$1,400.00	$0.00
D-12	Connect to Watermain	0	EA	$6,200.00	$0.00
D-13	Reclaim Connection & Meter	0	LS	$33,373.00	$0.00
D-14	Locator Balls & Tape	0	LS	$5,000.00	$0.00
				SUBTOTAL=	**$0.00**
	WASTEWATER COLLECTION				
E-1	8" Sewer, SDR 26 (0' - 6')	0	LF	$38.40	$0.00
E-2	8" Sewer, SDR 26 (6' - 8')	0	LF	$48.40	$0.00
E-3	8" Sewer, SDR 26 (8' - 10')	0	LF	$49.30	$0.00
E-4	8" Sewer, SDR 26 (10' - 12')	0	LF	$56.80	$0.00
E-5	8" Sewer, SDR 26 (12'-14')	0	LF	$62.45	$0.00
E-6	8" Sewer, SDR 26 (14'-16')	0	LF	$92.80	$0.00
E-7	8" Sewer, SDR 26 (16'-18')	0	LF	$106.00	$0.00
E-8	8" Sewer, SDR 26 (18'-20')	0	LF	$116.00	$0.00
E-9	8" Sewer, SDR 26 (20'-22')	0	LF	$131.00	$0.00
E-10	8" Sewer, SDR 26 (22'-24')	0	LF	$153.00	$0.00
E-11	8" Sewer, SDR 26 (24'-26')	0	LF	$189.00	$0.00
E-12	Sanitary Sewer Manhole (0' - 6')	0	EA	$8,730.00	$0.00
E-13	Sanitary Sewer Manhole (6' - 8')	0	EA	$9,985.00	$0.00
E-14	Sanitary Sewer Manhole (8' -10')	0	EA	$11,720.00	$0.00
E-15	Sanitary Sewer Manhole (10'-12')	0	EA	$13,605.00	$0.00
E-16	Sanitary Sewer Manhole (12'-14')	0	EA	$14,995.00	$0.00
E-17	Sanitary Sewer Manhole (14'-16')	0	EA	$17,885.00	$0.00
E-18	Sanitary Sewer Manhole (16'-18')	0	EA	$19,640.00	$0.00
E-19	Sanitary Sewer Manhole (18'-20')	0	EA	$0.00	$0.00
E-20	Sanitary Sewer Manhole (20'-22')	0	EA	$28,635.00	$0.00
E-21	Sanitary Sewer Manhole (22'-24')	0	EA	$31,350.00	$0.00
E-22	Sanitary Sewer Manhole (24'-26')	0	EA	$33,335.00	$0.00
E-23	Lift Station	0	EA	$688,115.00	$0.00
E-24	Single Sanitary Service	0	EA	$1,100.00	$0.00
E-25	Double Sanitary Service	0	EA	$1,300.00	$0.00
E-26	4" DR-18 C900 PVC Forcemain	0	LF	$19.35	$0.00
E-27	6" DR-18 C900 PVC Forcemain	0	LF	$27.85	$0.00
E-28	8" DR-18 C900 PVC Forcemain	0	LF	$39.75	$0.00
E-29	4" Plug Valve	0	EA	$1,790.00	$0.00
E-30	6" Plug Valve	0	EA	$2,830.00	$0.00
E-31	6" Air Relief Valve	0	EA	$0.00	$0.00
E-32	16" x 8" Tapping Sleeve & Valve	0	EA	$9,500.00	$0.00
E-33	All Locator Balls and Marking Tape	0	LS	$5,000.00	$0.00
				SUBTOTAL=	**$0.00**
	CONSTRUCTION SUBTOTAL =				**$270,872.40**
	MISCELLANEOUS				
F-1	Testing	0	LS	$45,000.00	$0.00
F-2	Right Turn Lane on Burnt Store Road	0	LS	$179,014.20	$0.00
				SUBTOTAL=	**$0.00**

APPROVED
By Roy Benjamin at 2:50 pm, Aug 04, 2025

CONSTRUCTION TOTAL =	**$270,872.40**
10% CONSTRUCTION CONTINGENCY =	**$27,087.24**
CONSTRUCTION TOTAL WITH CONTINGENCY =	**$297,959.64**

CONSTRUCTION TOTAL WITH CONTINGENCY = $297,959.64