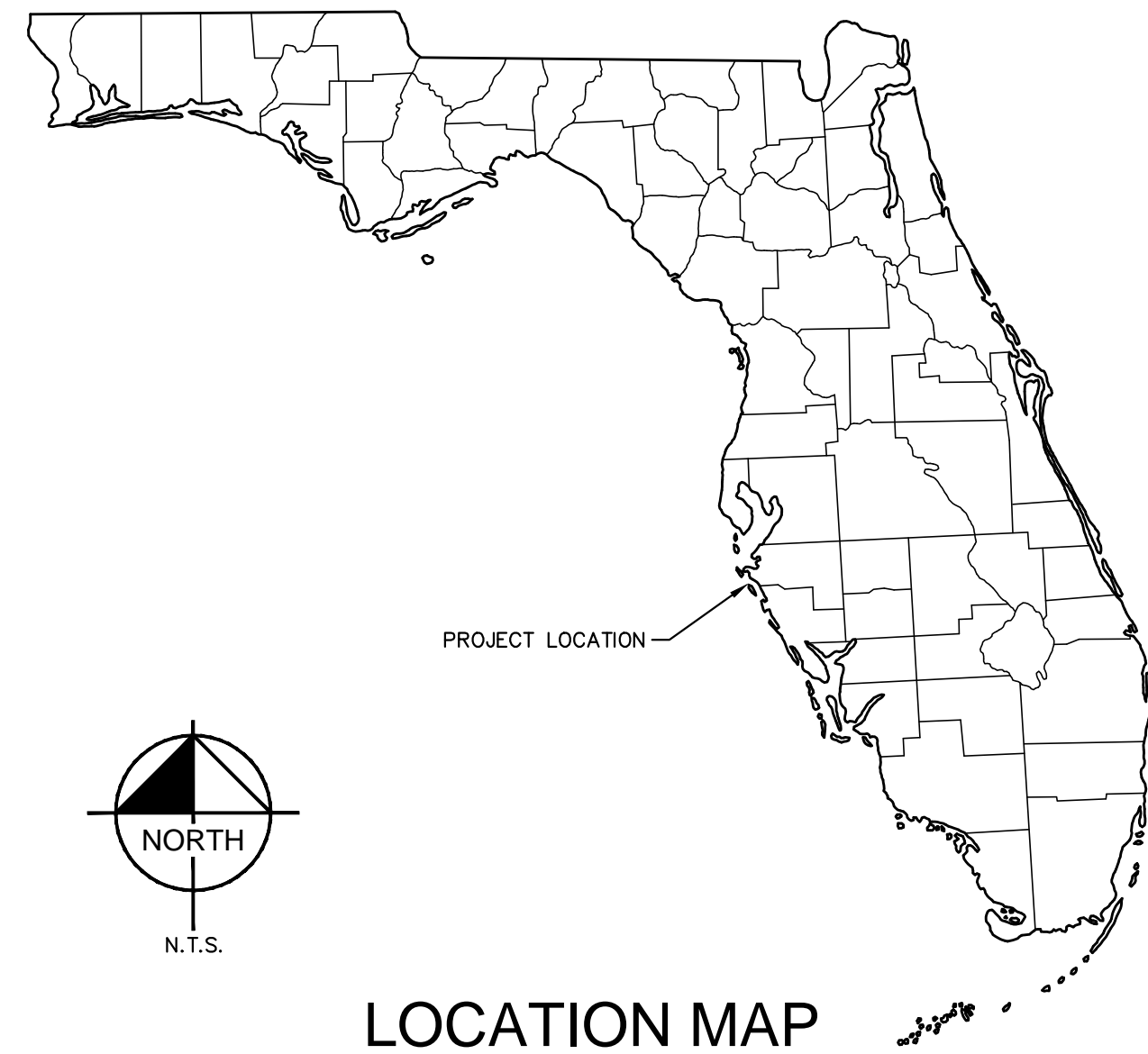


Plotted By: Stone, Seth. Sheet Set: Country Club Shores Ph. 2. Layout: G-1 COVER SHEET. September 26, 2022. 04:30:53pm. K:\s\utilities\148800 - town of longboat key\005 - country club shores w\CAD\Phase 2\layouts\01 COVER SHEET.dwg
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UTILITY CONSTRUCTION PLANS COUNTRY CLUB SHORES AC WATER MAIN REPLACEMENT PHASE 1 AND PHASE 2

SEPTEMBER 2022

LOCATED IN TOWN OF LONGBOAT KEY SARASOTA COUNTY, FLORIDA



LOCATION MAP

LONGBOAT KEY TOWN COMMISSION

- | | |
|------------------|-----------------------|
| KEN SCHNEIER | MAYOR |
| MIKE HAYCOCK | VICE MAYOR |
| SHERRY DOMINICK | COMMISSIONER |
| PENNY GOLD | COMMISSIONER |
| DEBRA WILLIAMS | COMMISSIONER |
| MAUREEN MERRIGAN | COMMISSIONER |
| B.J. BISHOP | COMMISSIONER-AT-LARGE |

LIST OF CONTACTS

OWNER:
TOWN OF LONGBOAT KEY
PUBLIC WORKS UTILITIES DEPT.
600 GENERAL HARRIS ST.
LONGBOAT KEY, FL 34228
(941) 316-1988

ENGINEER:
KIMLEY-HORN & ASSOCIATES INC.
1777 MAIN STREET, SUITE 200
SARASOTA, FL 34236
(941) 379-7600

SURVEYOR:
HYATT SURVEY SERVICES, INC.
11007 8TH AVENUE EAST
BRADENTON, FLORIDA 34212
(941) 748-4693

GEOTECH:
ARDAMAN & ASSOCIATES
ENVIRONMENTAL SERVICES.
78 SARASOTA CENTER BLVD.
SARASOTA, FL 34240
(941) 922-3526

UTILITY PROVIDERS

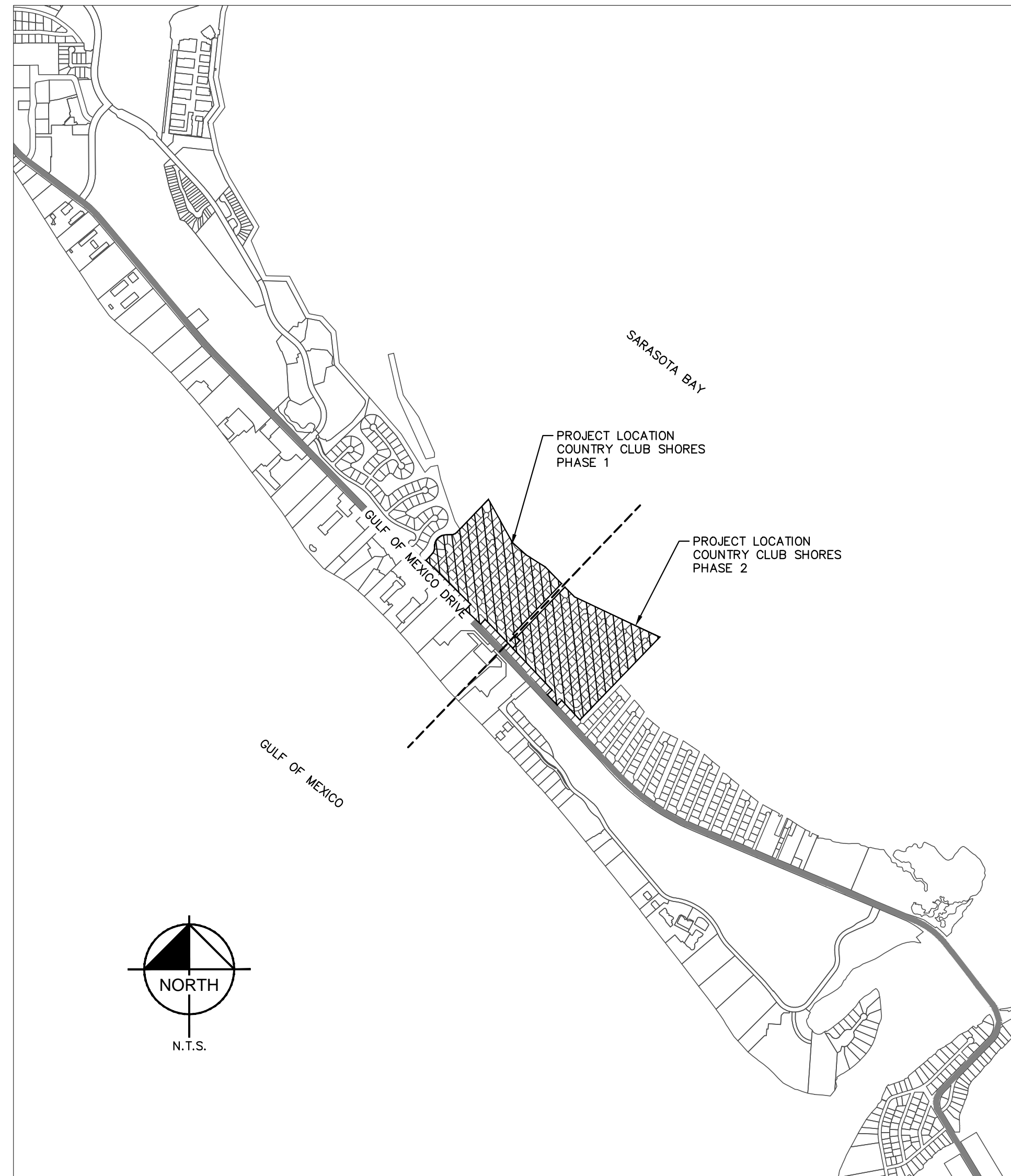
WATER/WASTEWATER
TOWN OF LONGBOAT KEY
PUBLIC WORKS UTILITIES DEPT.
600 GENERAL HARRIS ST.
LONGBOAT KEY, FL 34228
(941) 316-1988

NATURAL GAS
TECO PEOPLE'S GAS
8261 VICO CT
SARASOTA, FL 34240
ANTHONY BAUBLITZ
(941) 342-4025

TELEPHONE:
FRONTIER COMMUNICATIONS
1701 RINGLING BLVD.
SARASOTA, FL 34236
GARY REEVE
(941) 955-2908

ELECTRIC:
FLORIDA POWER & LIGHT
ERNESTO DOMINGUEZ
(305) 219-6483

CATV:
COMCAST CABLE
5231 UNIVERSITY PKWY, SUITE 115
BRADENTON, FL 34201
KEVIN MILLER
(239) 318-1411



Sheet List Table	
Sheet Number	Sheet Title
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G-2	GENERAL NOTES
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G-4	SOIL BORINGS (PHASE 2)
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WM-01	PUTTER LANE [10+00 - 14+50]
WM-02	PUTTER LANE [14+50 - 19+00]
WM-03	PUTTER LANE [19+00 - 23+00]
WM-04	PUTTER LANE EXT [25+00 - 27+75]
WM-05	GOLF LINKS LANE [30+00 - 35+00]
WM-06	GOLF LINKS LANE [35+00 - 40+00]
WM-07	CHIPPING LANE [50+00 - 54+00]
WM-08	CHIPPING LANE [54+00 - 58+00]
WM-09	CHIPPING LANE [58+00 - 60+50]
WM-10	GULF OF MEXICO DRIVE - POINT OF CONNECTION
WM-11	WEDGE LANE [70+00 - 74+00]
WM-12	WEDGE LANE [74+00 - 78+00]
WM-13	WEDGE LANE [78+00 - 81+00]
WM-14	BIRDIE LANE [90+00 - 94+00]
WM-15	BIRDIE LANE [94+00 - 98+00]
WM-16	BIRDIE LANE [98+00 - 101+50]
WM-17	BOGEY LANE [200+00 - 204+50]
WM-18	BOGEY LANE [204+50 - 209+00]
WM-19	BOGEY LANE [209+00 - 213+50]
WM-20	BOGEY LANE [213+50 - 218+00]
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WM-21	BOGEY LANE [218+00 - 223+00]
WM-22	BOGEY LANE [223+00 - 228+00]
WM-23	BOGEY LANE [228+00 - 231+50]
WM-24	HALYARD LANE [231+50 - 236+50]
WM-25	HALYARD LANE [236+50 - 241+50]
WM-26	HALYARD LANE [241+50 - 245+50]
WM-27	PUTTING GREEN LANE [102+00 - 106+00]
WM-28	PUTTING GREEN LANE [106+00 - 110+00]
WM-29	PUTTING GREEN LANE [110+00 - 113+50]
WM-30	YARDARM LANE [30+00 - 35+00]
WM-31	YARDARM LANE [35+00 - 40+00]
WM-32	YARDARM LANE [40+00 - 42+25]
WM-33	BOWSPRIT LANE [40+00 - 45+00]
WM-34	BOWSPRIT LANE [45+00 - 50+00]
WM-35	BOWSPRIT LANE [50+00 - 53+50]
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T-1	CONCEPTUAL ADVANCE WARNING LAYOUT
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DETAILS	
D-1	STANDARD DETAILS
D-2	STANDARD DETAILS 2

FINAL CONSTRUCTION PLANS

NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND ABILITY THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL, COMPLIES WITH ALL APPLICABLE STANDARDS.

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW!
DIAL 811

Know what's below.
Call before you dig.

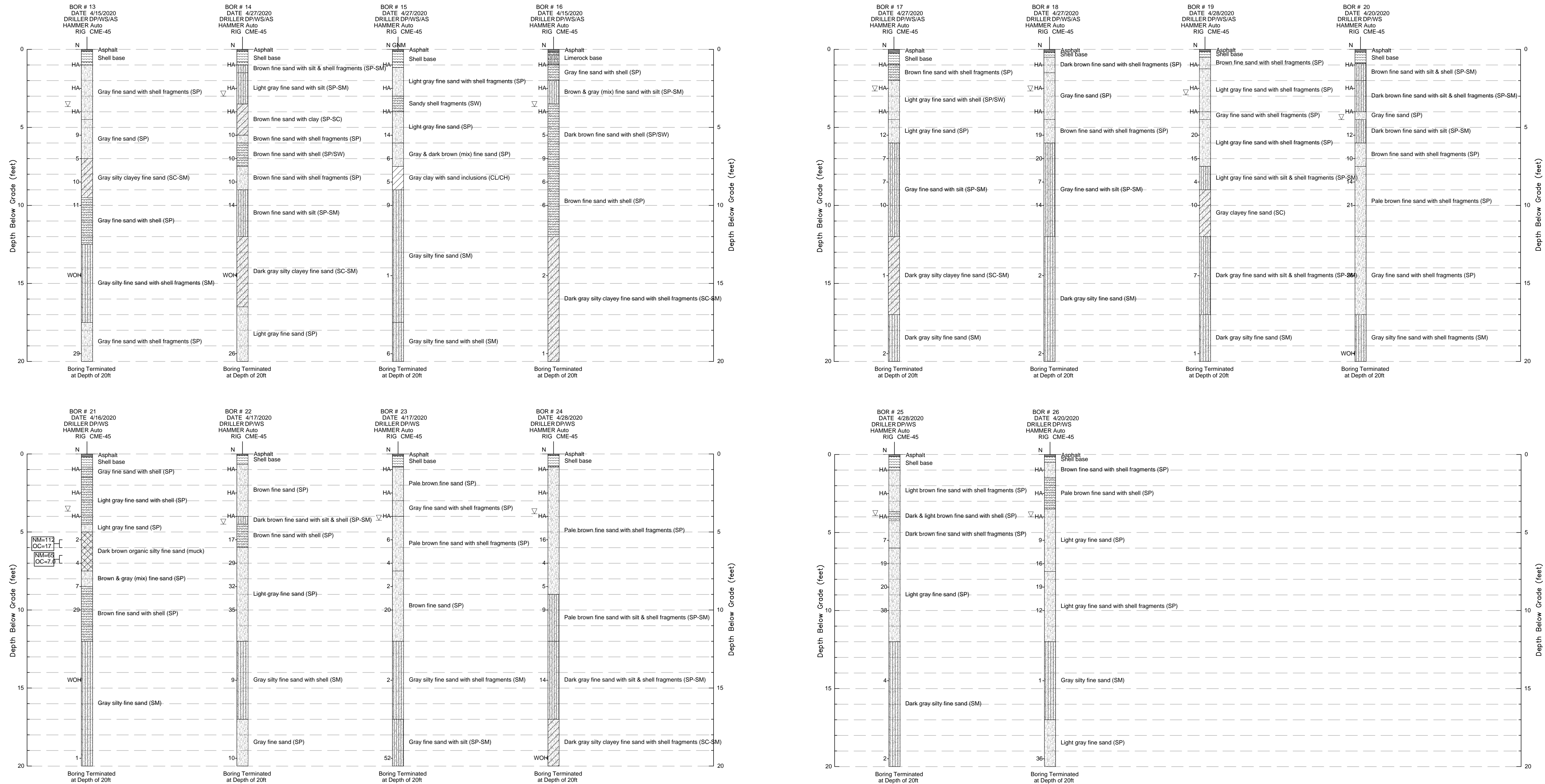
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PREPARED BY
Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.

ASHLEY M. MIELE, PE
FLA. REGISTERED ENGINEER
66476
CA 00000696

DATE _____

SOIL BORINGS



LEGEND

- ▽ GROUNDWATER LEVEL MEASURED ON DATE DRILLED
- N SPT N-VALUE IN BLOWS PER FOOT (UNLESS OTHERWISE NOTED)
- SPT N VALUES CONVERTED TO EQUIVALENT SAFETY HAMMER
- WOH WEIGHT OF HAMMER
- HA HAND AUGER
- NM NATURAL MOISTURE CONTENT
- OC ORGANIC CONTENT (%)

GRANULAR MATERIALS—RELATIVE DENSITY	SPT (BLOWS/FOOT)
VERY LOOSE	LESS THAN 4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FOOT)
VERY SOFT	LESS THAN 2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30

*GEOTECHNICAL DATA BASED ON REPORT PROVIDED BY ARDAMAN & ASSOCIATES DATED 5/7/2020

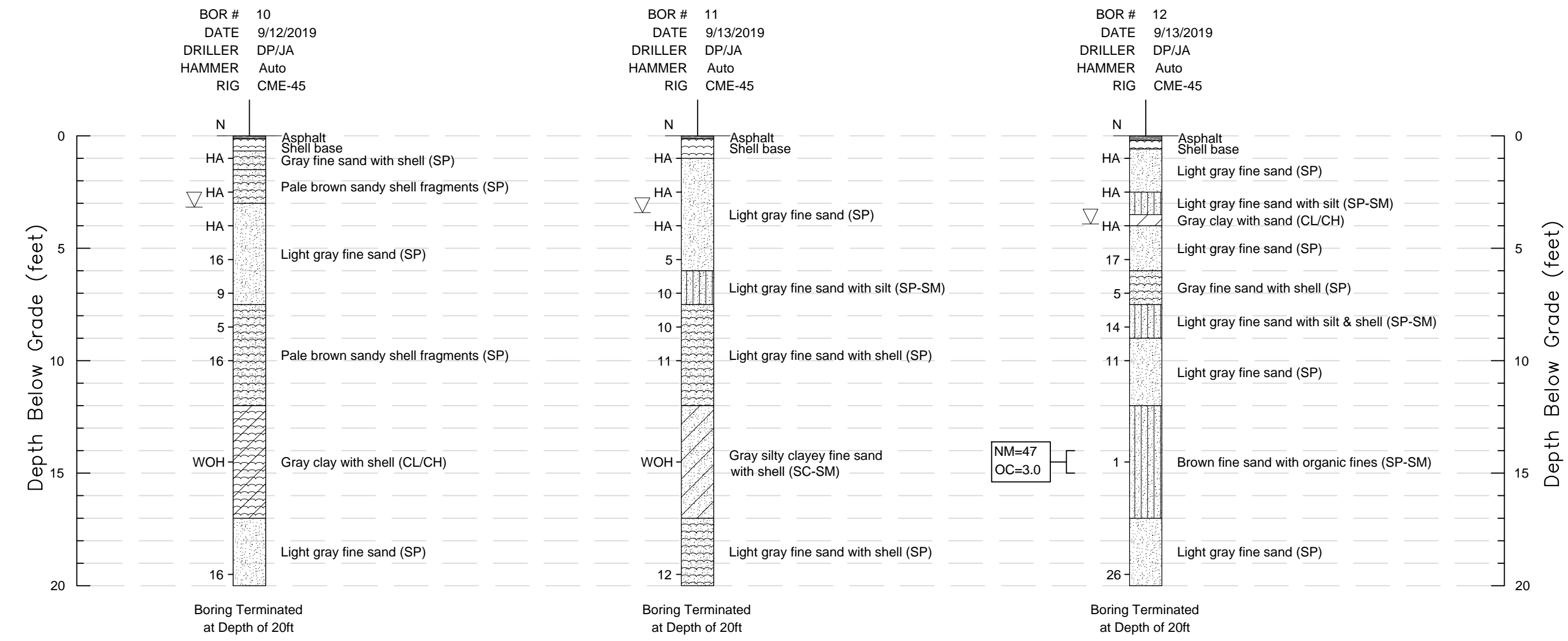
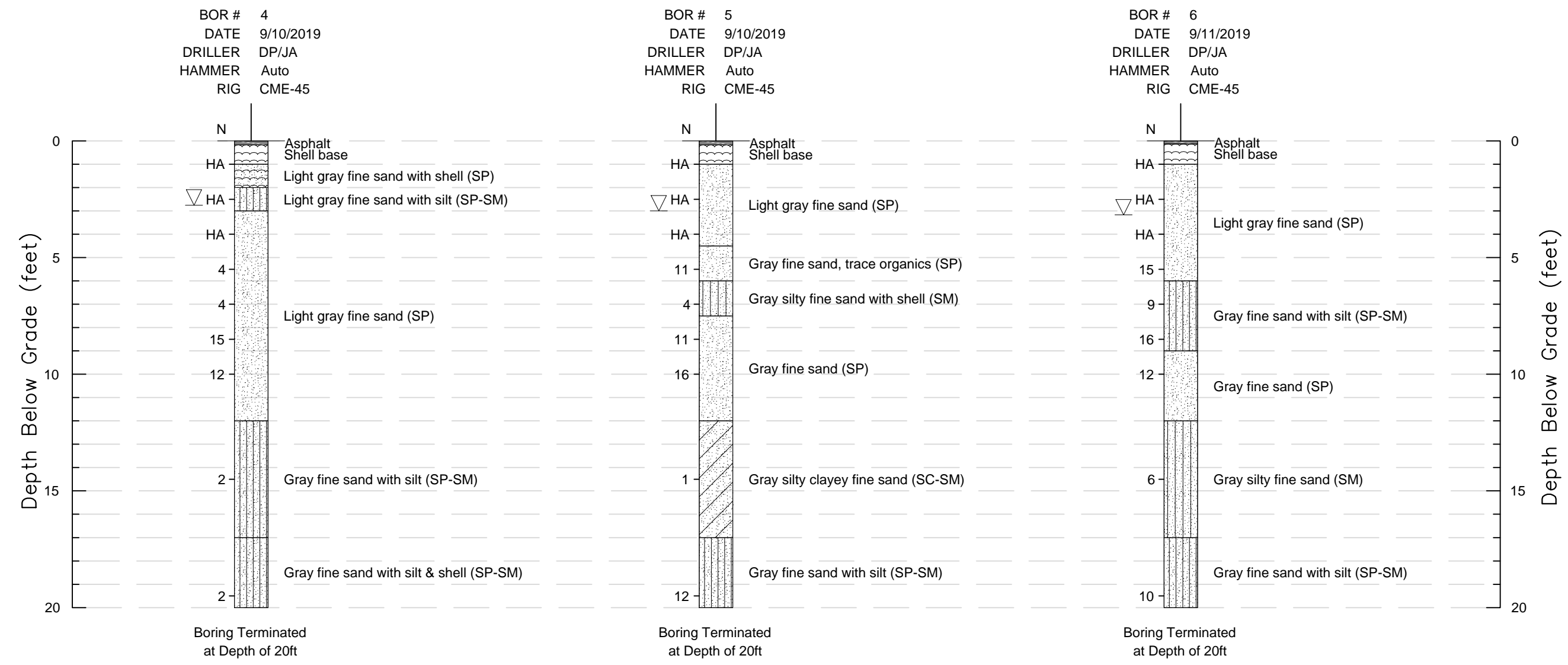
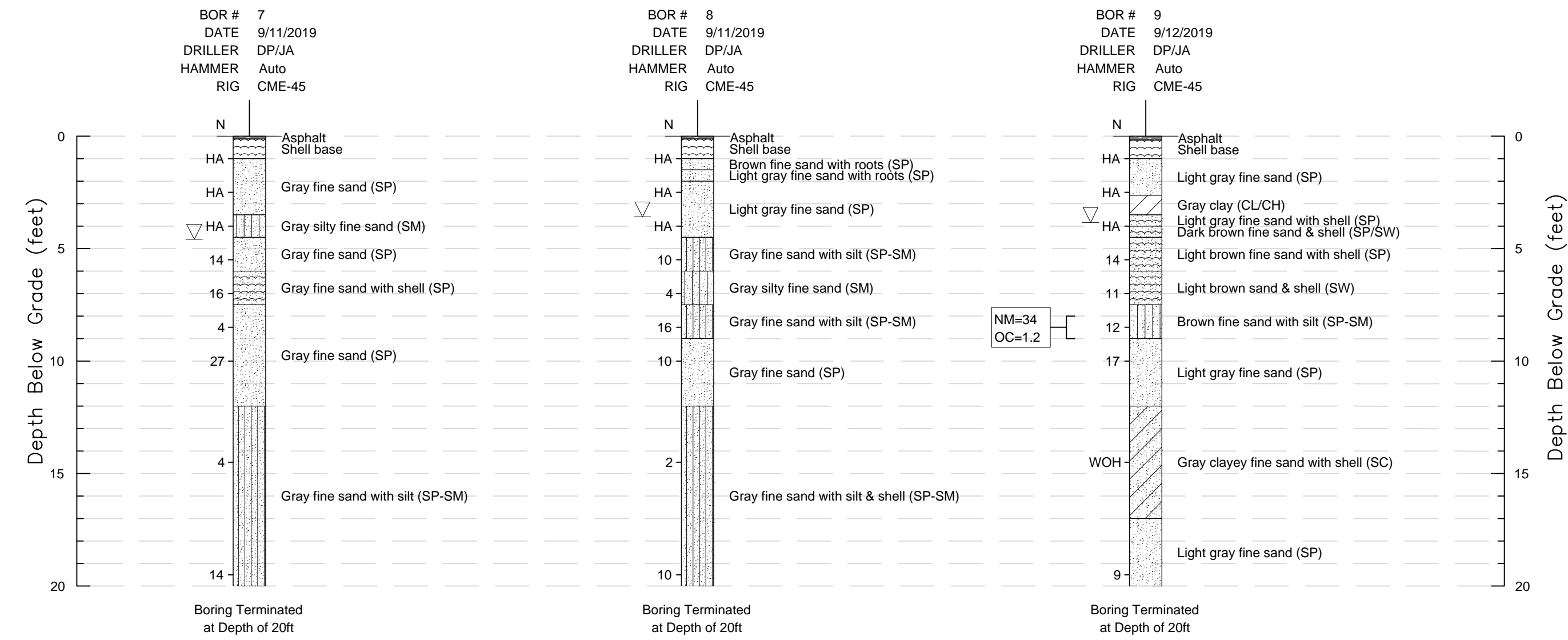
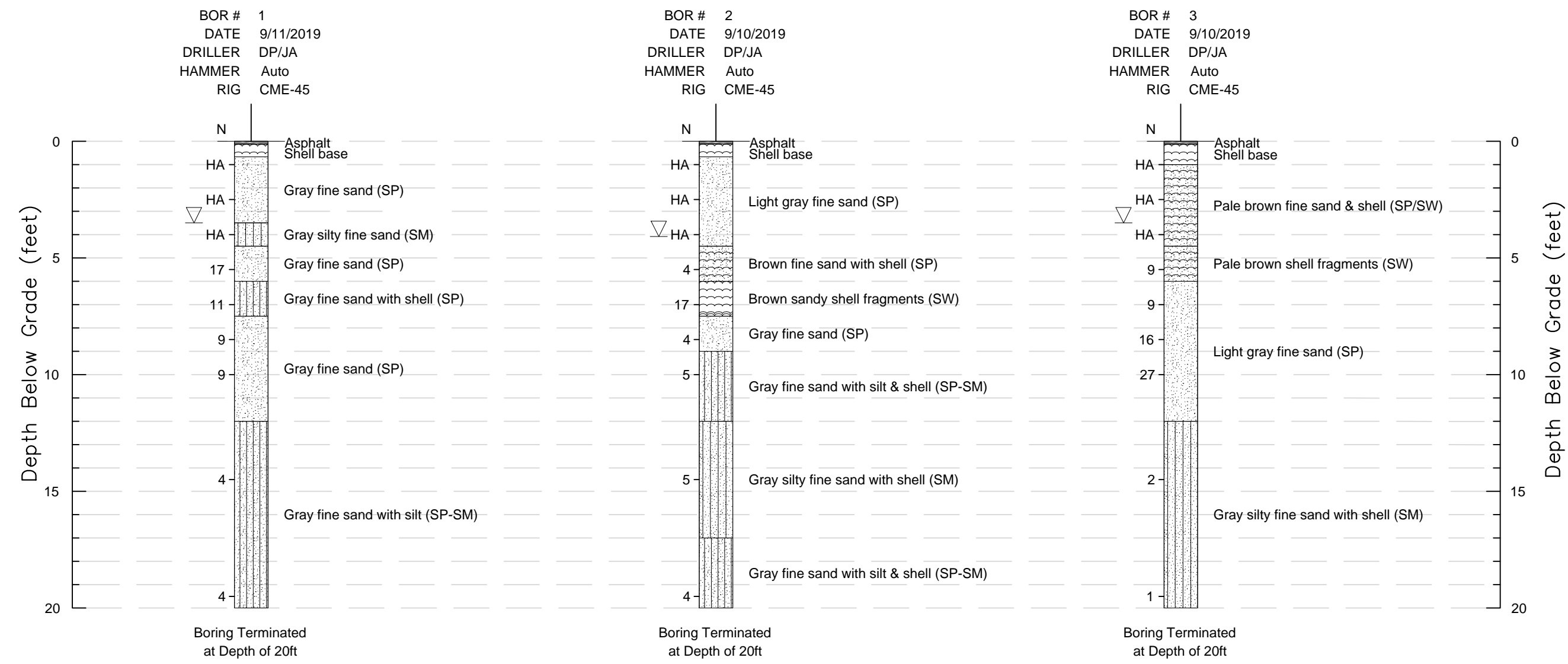
NOT FOR CONSTRUCTION

	<p>1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000696</p>	<p>KHA PROJECT 148800005 DATE 9/26/2022 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY LMC CHECKED BY AMM</p>	<p>TOWN OF LONGBOAT KEY COUNTRY CLUB SHORES AC WATER MAIN REPLACEMENT SARASOTA COUNTY</p>	<p>LICENSED PROFESSIONAL ASHLEY M. MIELE, P.E. 66476 FL DATE:</p>	<p>SHEET NUMBER G-3</p>
No.	REVISIONS	DATE	BY		

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SOIL BORINGS

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LEGEND

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- SPT N VALUES CONVERTED TO EQUIVALENT SAFETY HAMMER
- WOH WEIGHT OF HAMMER
- HA HAND AUGER
- NM NATURAL MOISTURE CONTENT
- OC ORGANIC CONTENT (%)

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SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30

*GEOTECHNICAL DATA BASED ON REPORT PROVIDED BY ARDAMAN & ASSOCIATES DATED 9/23/2019
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

Kimley»Horn

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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
148800005
 DATE
9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY LMC
 CHECKED BY AMM

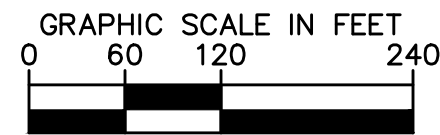
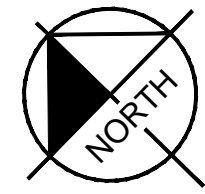
TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

SOIL BORINGS (PHASE 2)

SHEET NUMBER
G-4



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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY LMC
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

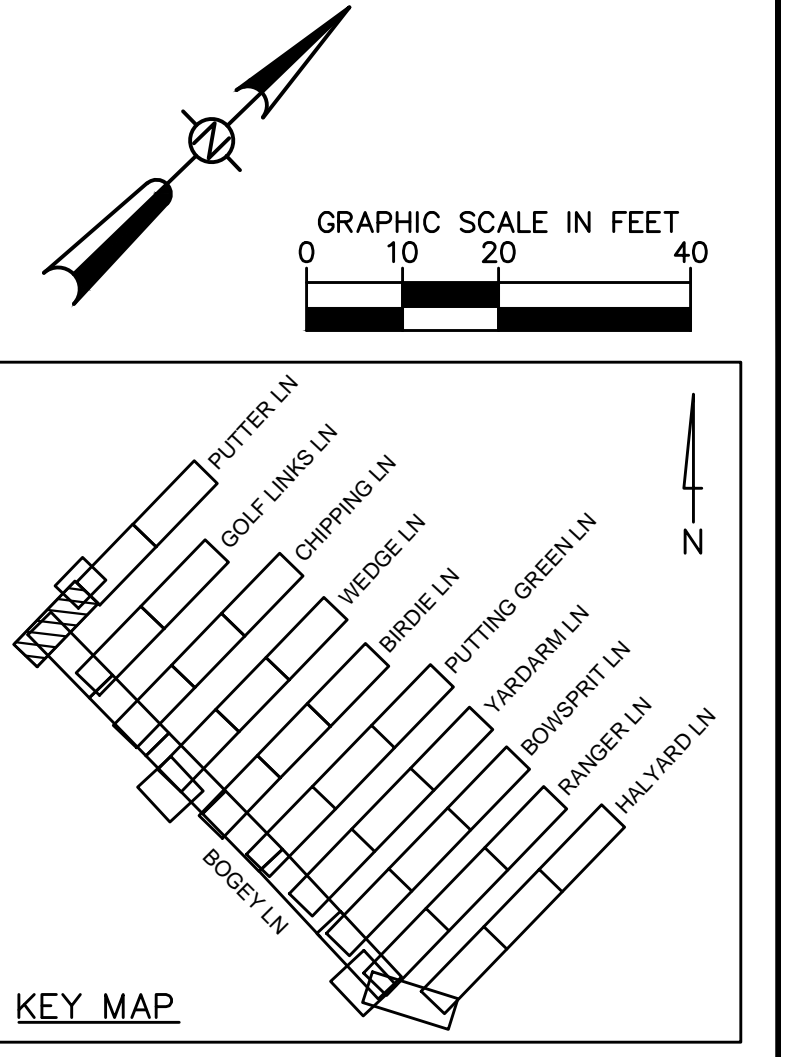
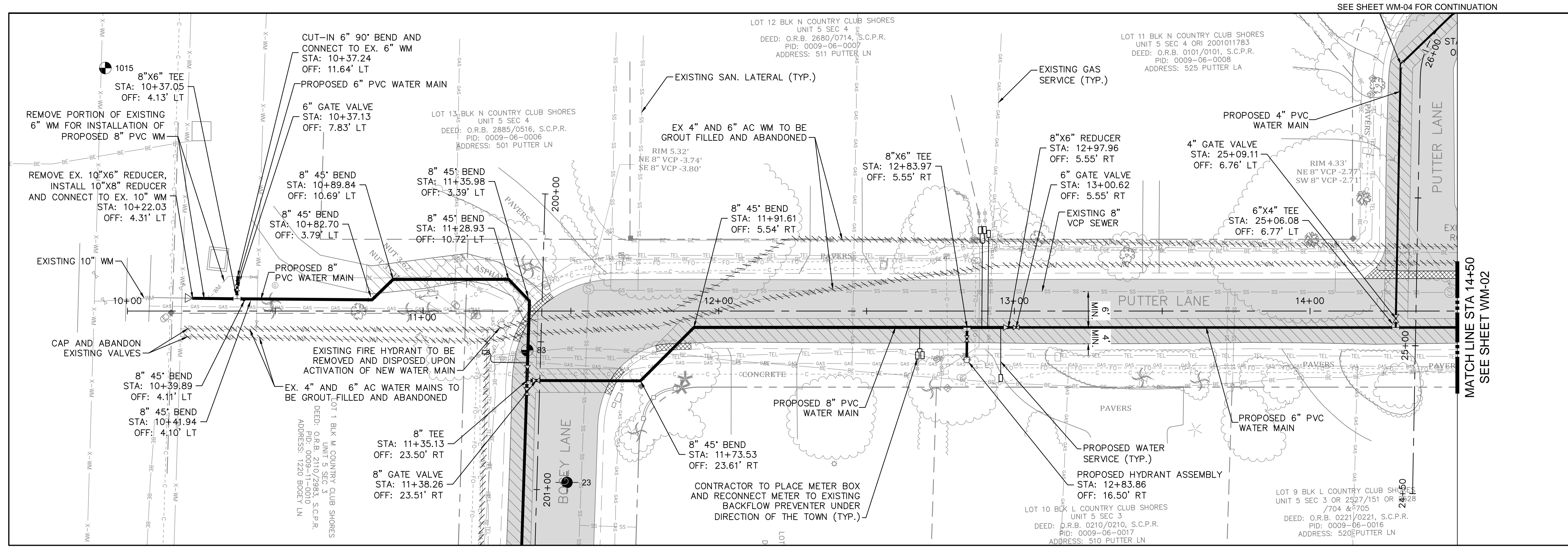
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 DATE:

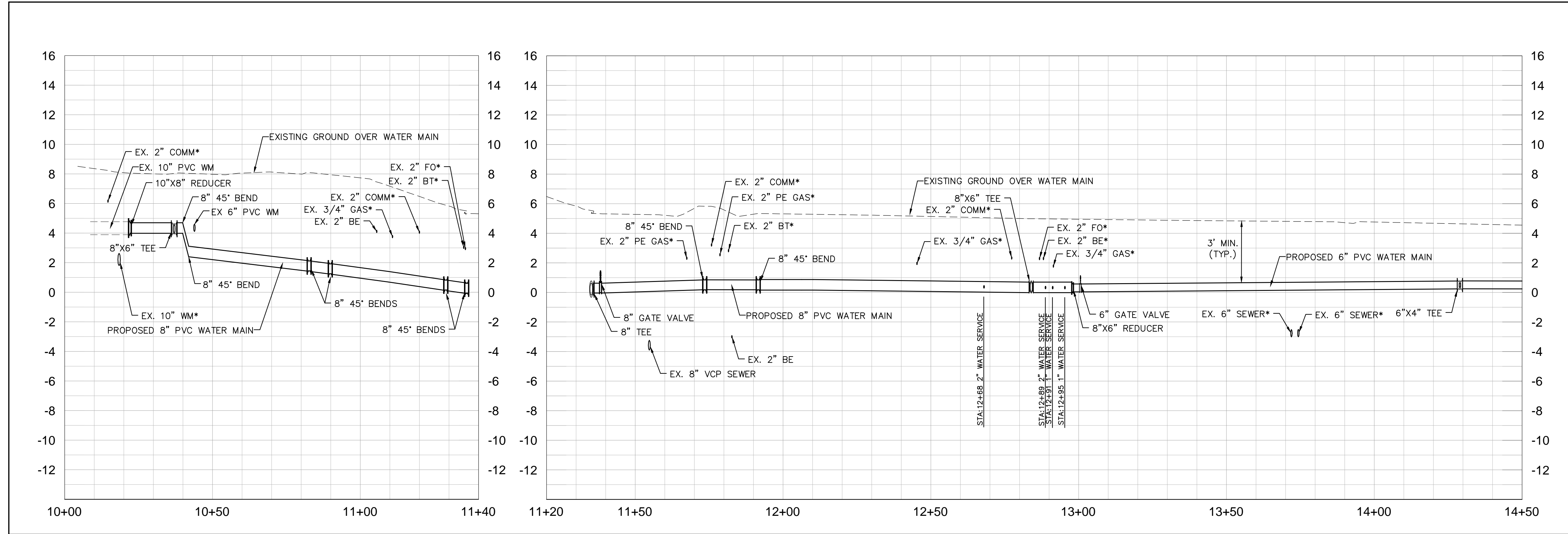
KEY SHEET

SHEET NUMBER
G-5

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- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION
- NOTES:**
- CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET D-1.
 - CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 - REFER TO DETAILS ON SHEET D-1 FOR ASPHALT PAVEMENT REPAIR REQUIREMENTS.
 - REFER TO SHEET D-2, FOR SIDEWALK RESTORATION DETAILS.
 - GAS LINE IS LOCATED INSIDE ASBESTOS CEMENT WATER MAIN IN NOTED LOCATIONS. CONTRACTOR TO VERIFY ABSENCE OF GAS LINES PRIOR TO GROUT FILLING AND ABANDONING EXISTING WATER MAINS. GAS LINE SHOWN IS BASED ON UTILITY COORDINATION DRAWINGS PROVIDED BY TECO GAS.
 - MAINTAIN A MINIMUM OF 6" VERTICAL CLEARANCE FROM EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED.



GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

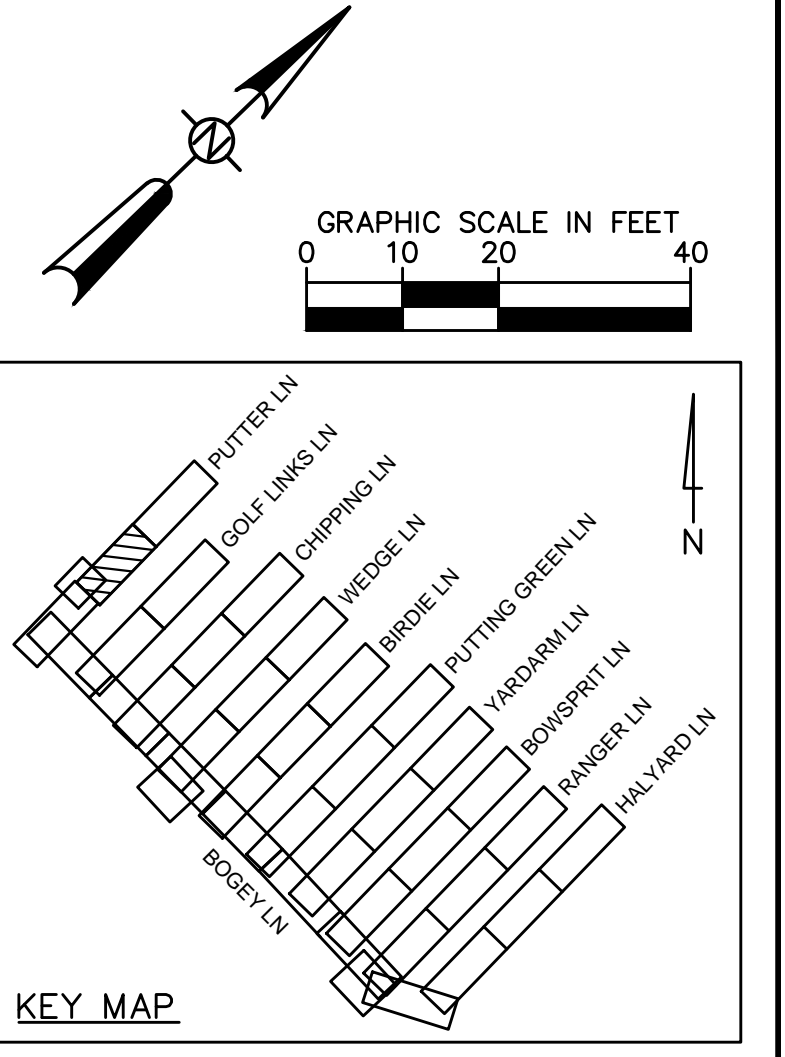
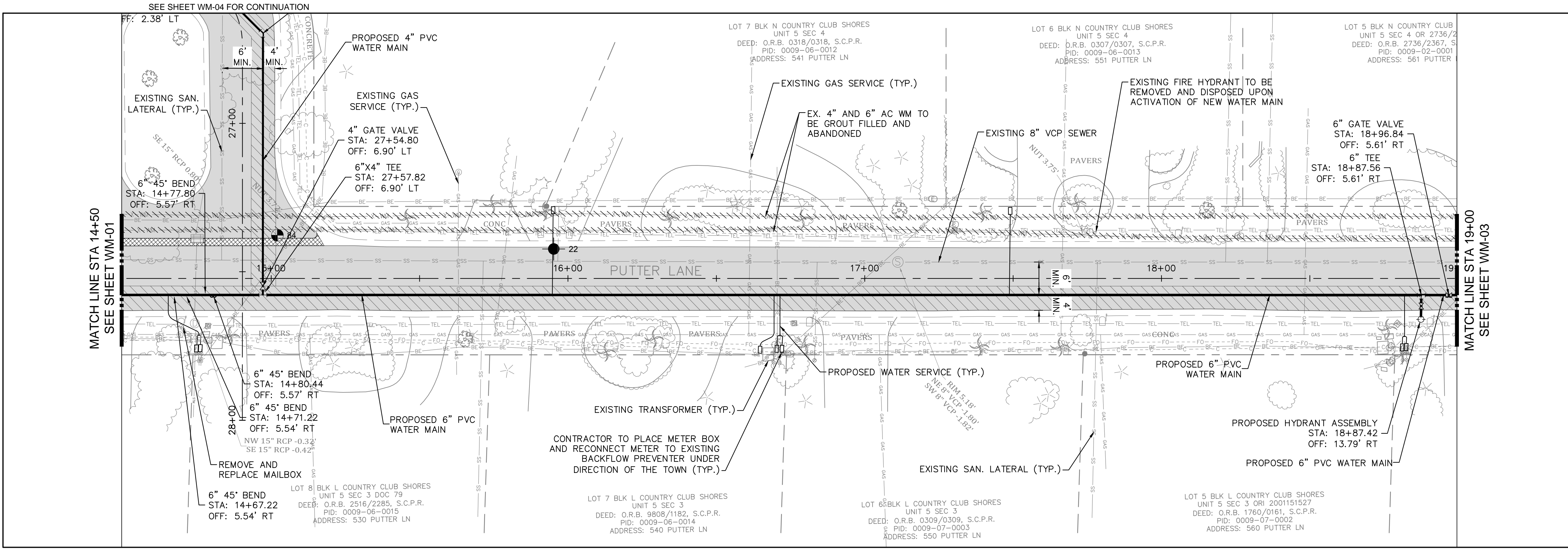
SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 1
PUTTER LANE
[10+00 - 14+50]

SHEET NUMBER
WM-01

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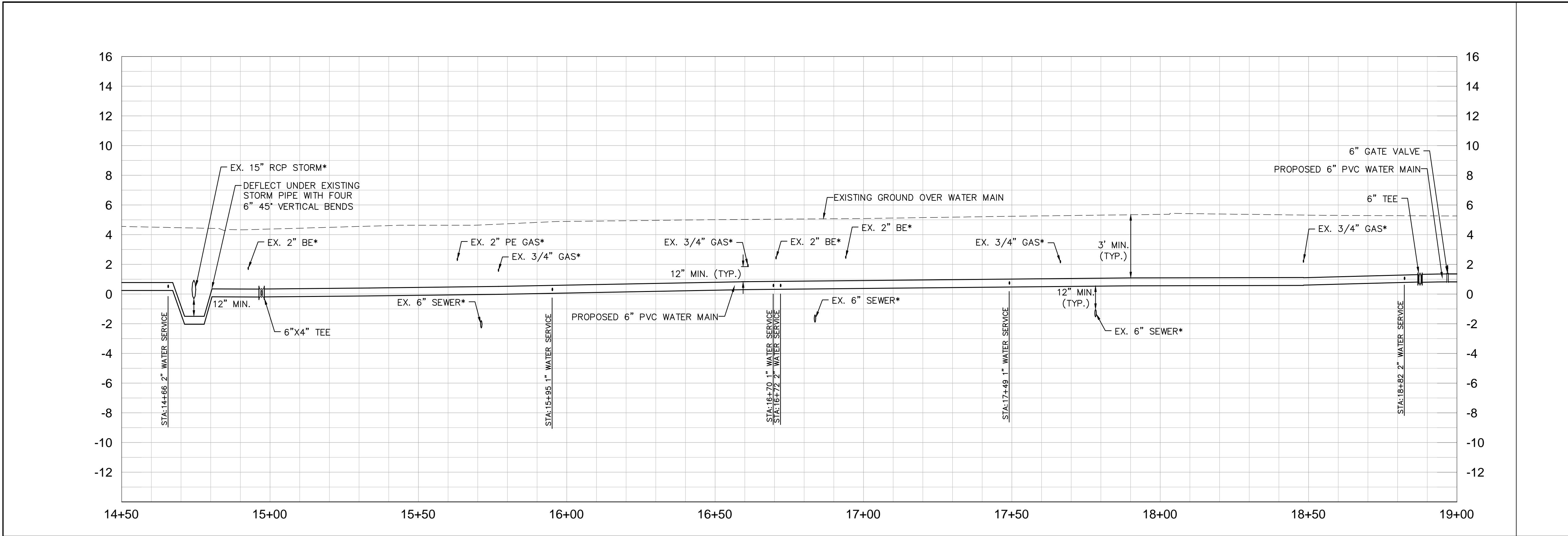


- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION
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 - REFER TO SHEET D-2, FOR SIDEWALK RESTORATION DETAILS.
 - GAS LINE IS LOCATED INSIDE ASBESTOS CEMENT WATER MAIN IN NOTED LOCATIONS. CONTRACTOR TO VERIFY ABSENCE OF GAS LINES PRIOR TO GROUT FILLING AND ABANDONING EXISTING WATER MAINS. GAS LINE SHOWN IS BASED ON UTILITY COORDINATION DRAWINGS PROVIDED BY TECO GAS.
 - MAINTAIN A MINIMUM OF 6" VERTICAL CLEARANCE FROM EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED.

***NOTES:**
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE, OR ASSUMED PIPE SLOPES FROM MEASURE PIPE INVERTS AT MANHOLES. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED WATER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

GROUNDWATER / DEWATERING NOTE:
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
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 SCALE AS SHOWN
 DESIGNED BY KHA
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 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

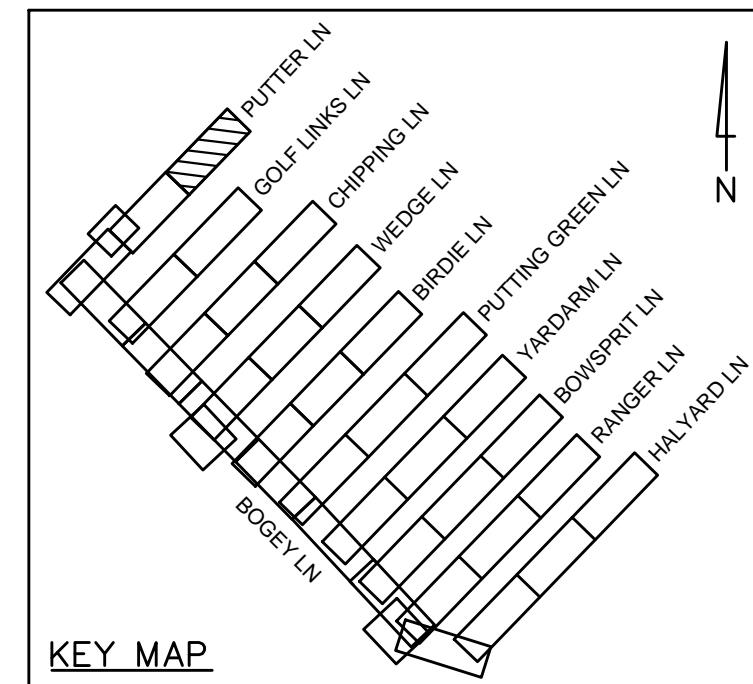
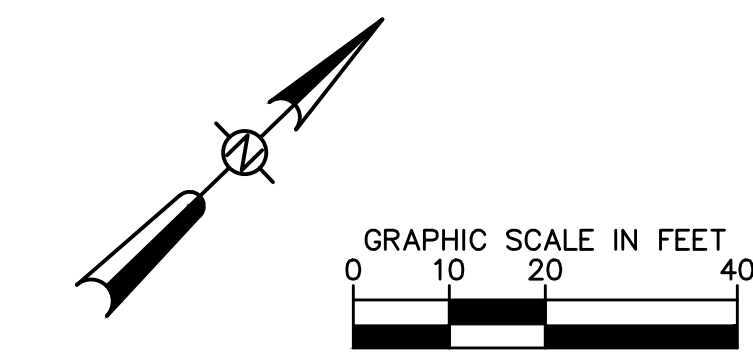
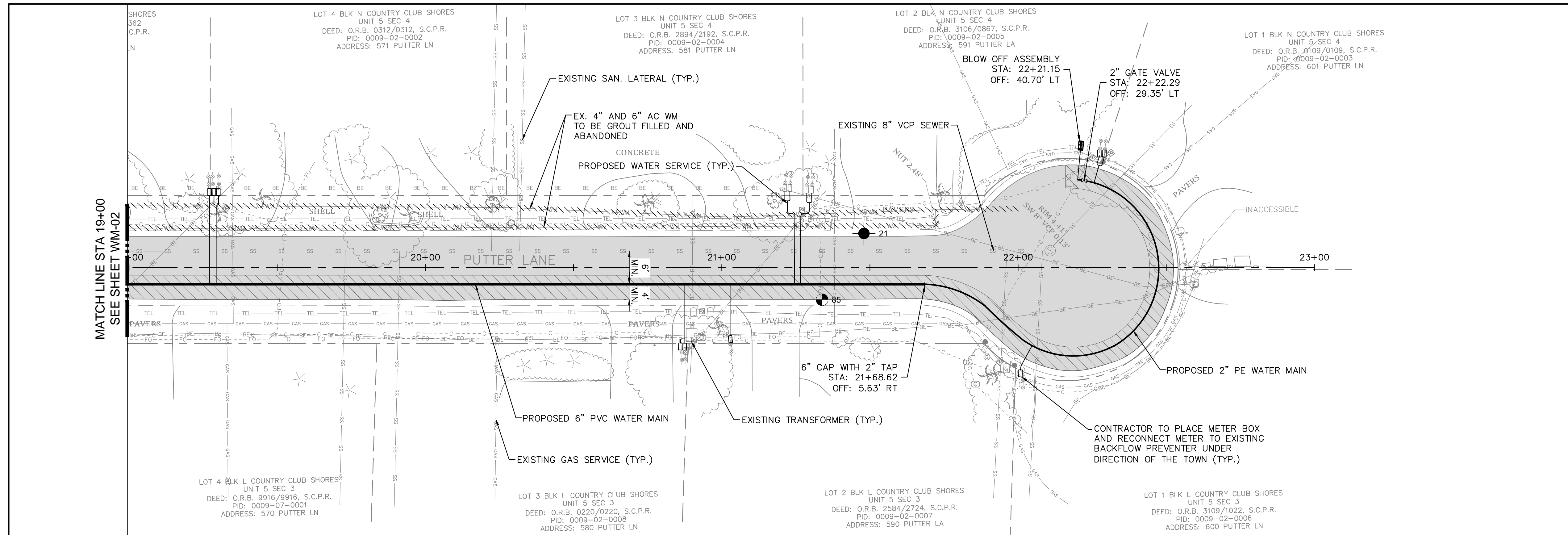
SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 1
PUTTER LANE
[14+50 - 19+00]

SHEET NUMBER
WM-02

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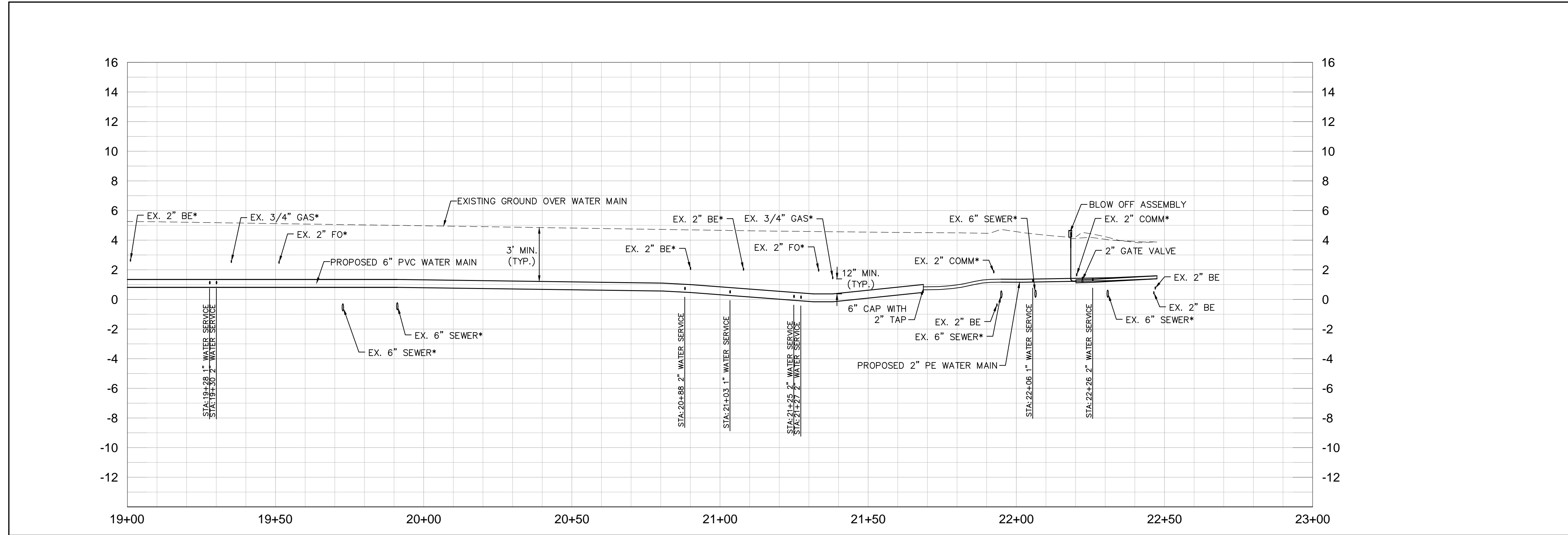
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
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TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

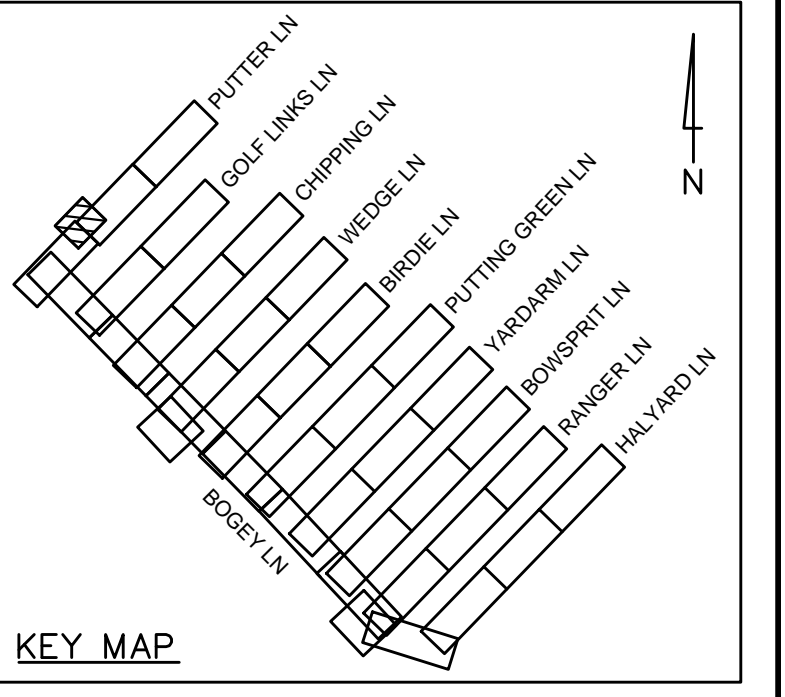
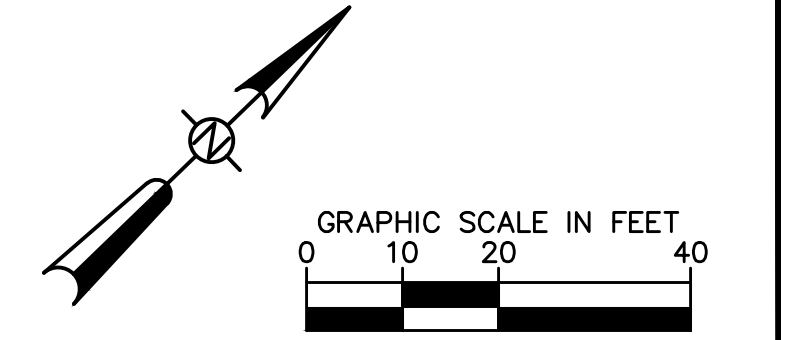
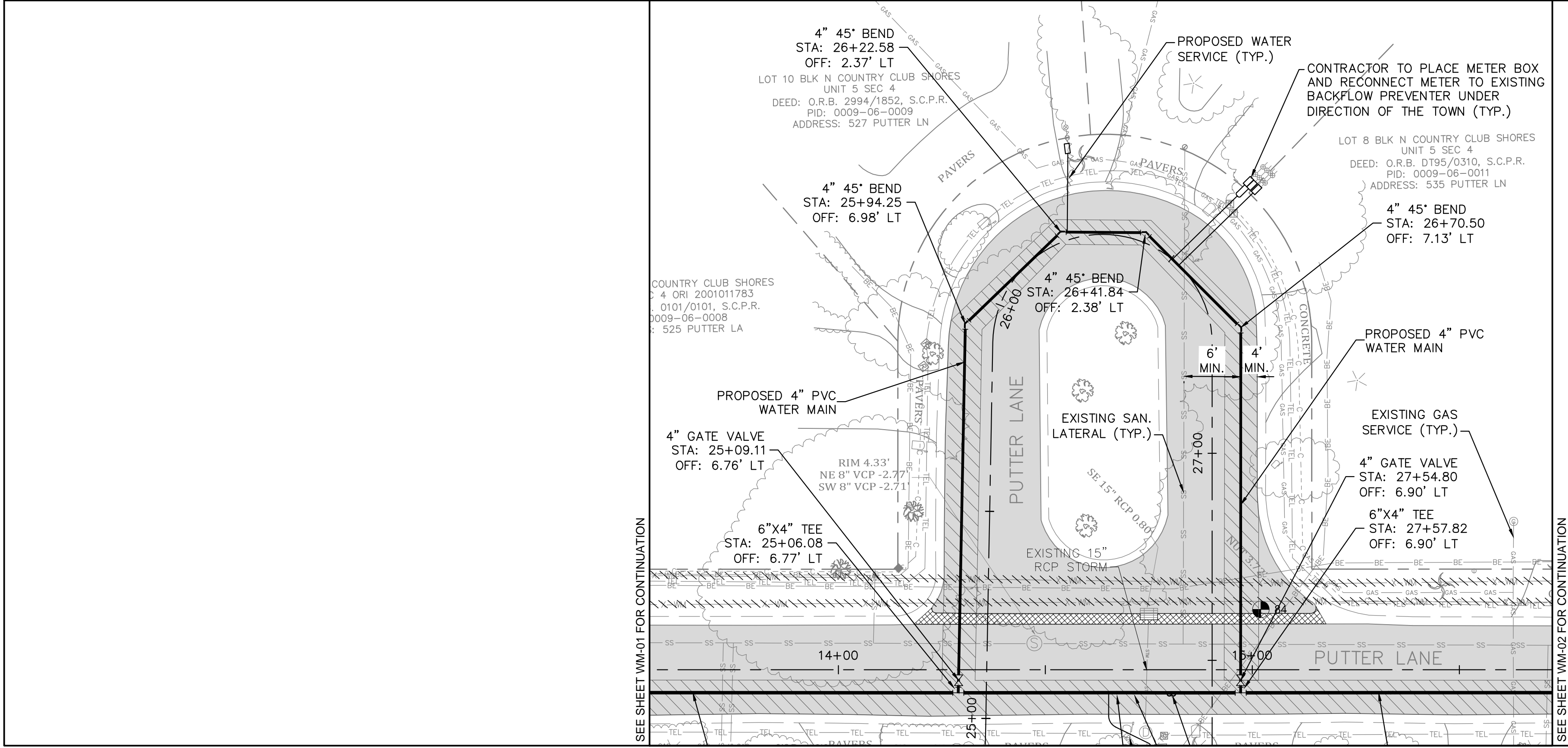
SARASOTA COUNTY

LICENSED PROFESSIONAL
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 66476
 FL DATE:

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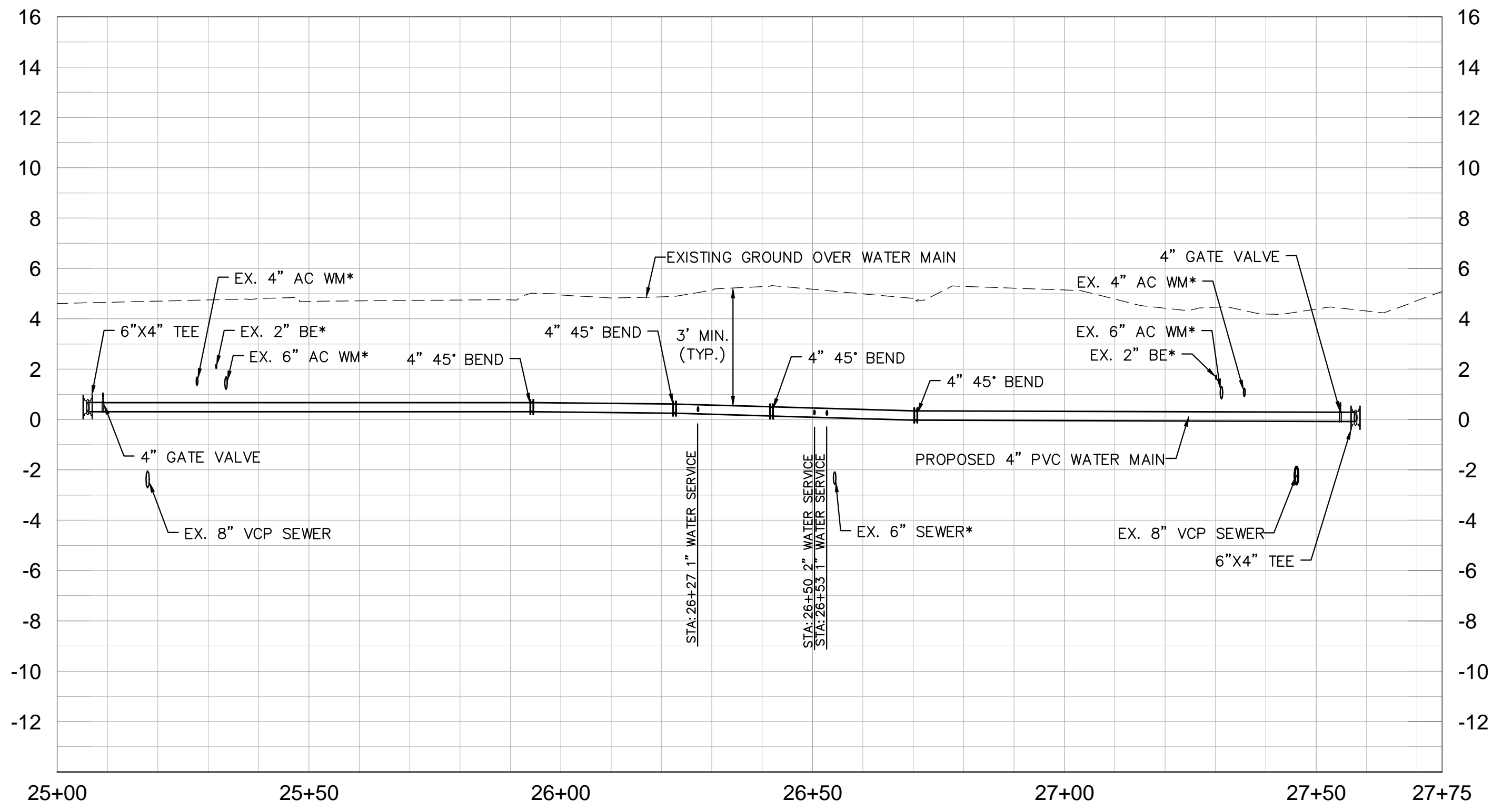
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION

- NOTES:**
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 3. REFER TO DETAILS ON SHEET D-1 FOR ASPHALT PAVEMENT REPAIR REQUIREMENTS.
 4. REFER TO SHEET D-2, FOR SIDEWALK RESTORATION DETAILS.
 5. GAS LINE IS LOCATED INSIDE ASBESTOS CEMENT WATER MAIN IN NOTED LOCATIONS. CONTRACTOR TO VERIFY ABSENCE OF GAS LINES PRIOR TO GROUT FILLING AND ABANDONING EXISTING WATER MAINS. GAS LINE SHOWN IS BASED ON UTILITY COORDINATION DRAWINGS PROVIDED BY TECO GAS.
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
 148800007
 DATE
 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY

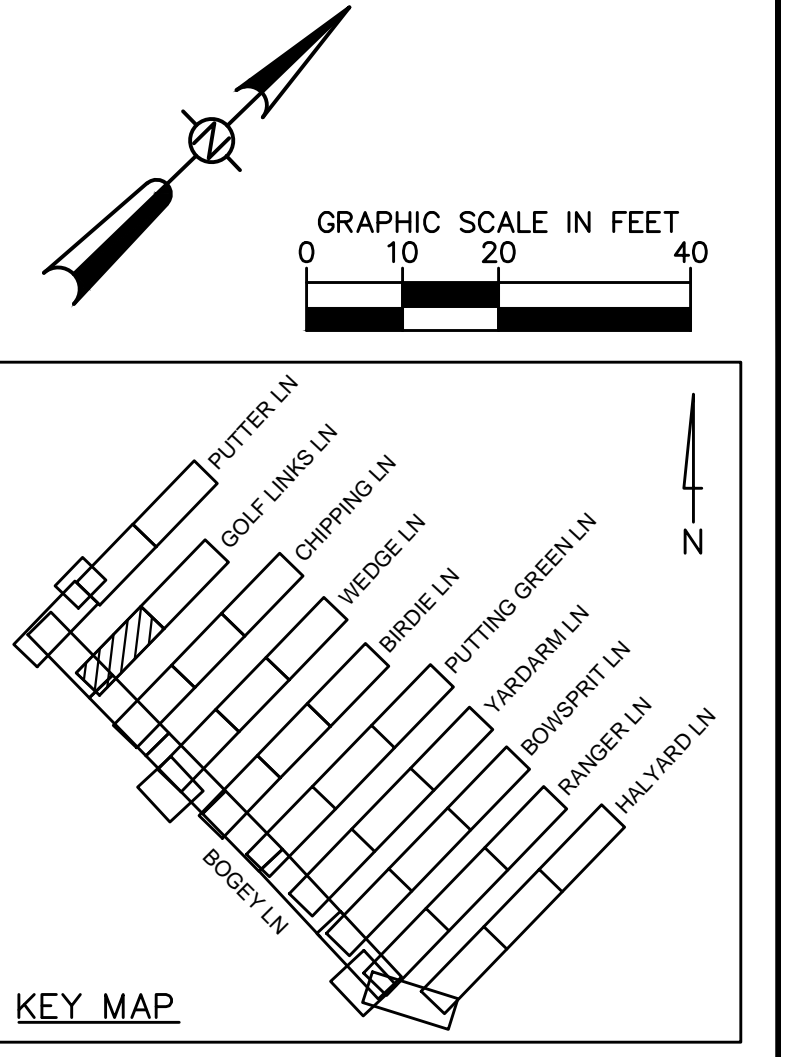
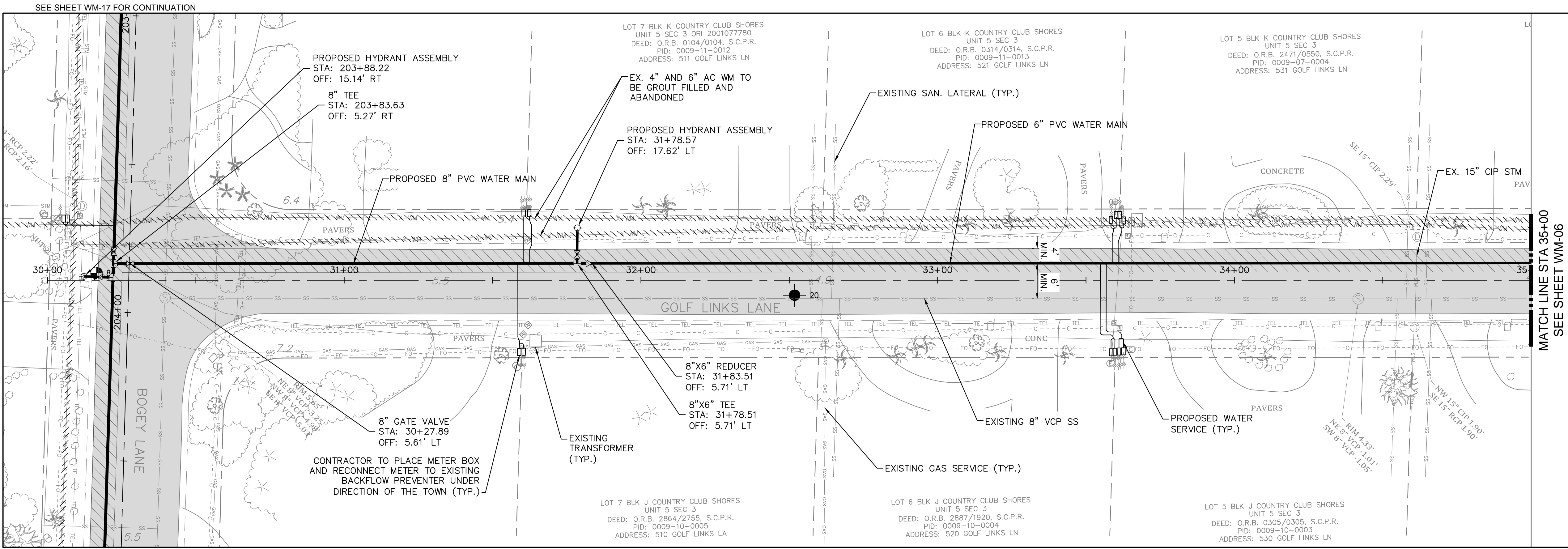
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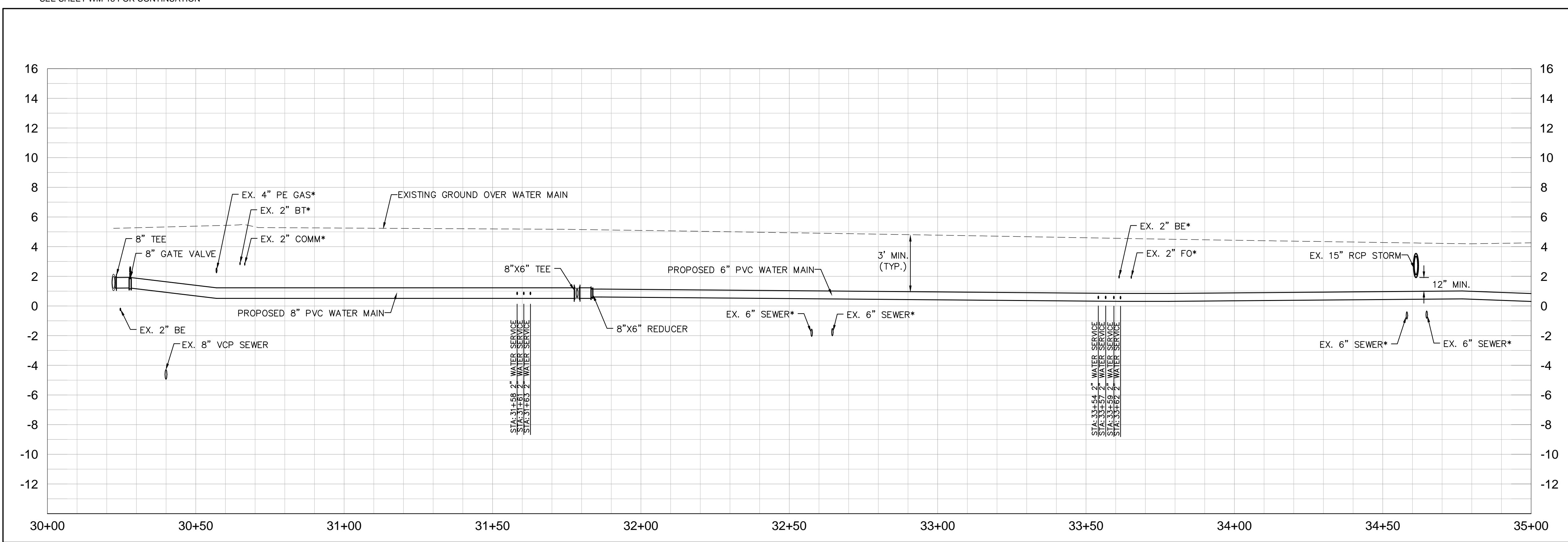
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION

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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

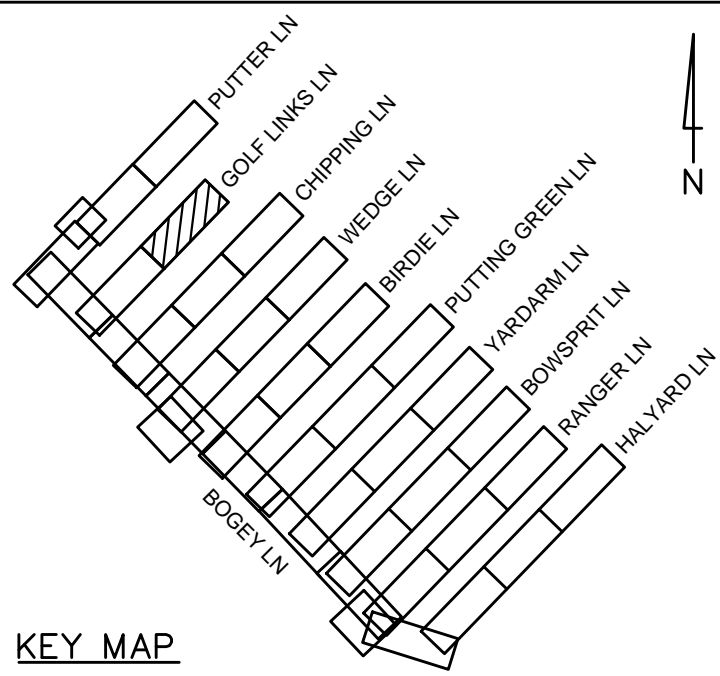
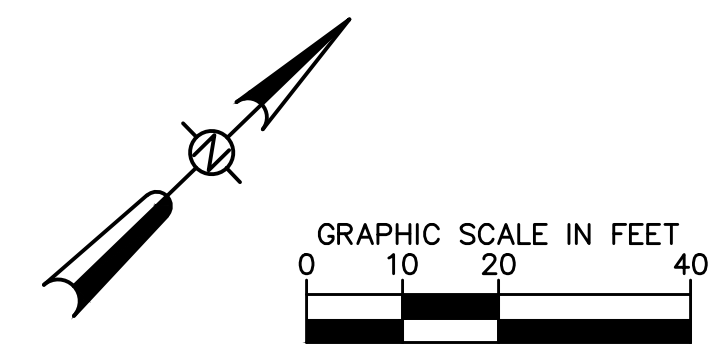
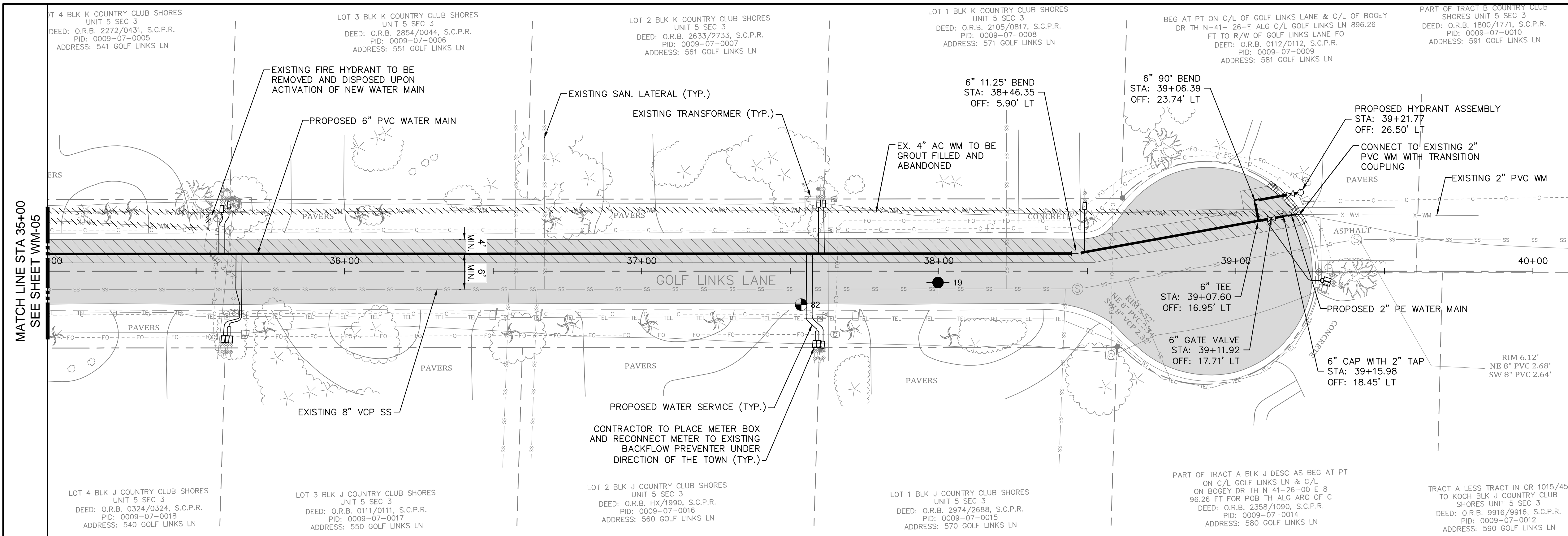
SARASOTA COUNTY

LICENSED PROFESSIONAL
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66476
FL DATE:

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GOLF LINKS LANE
[30+00 - 35+00]

SHEET NUMBER
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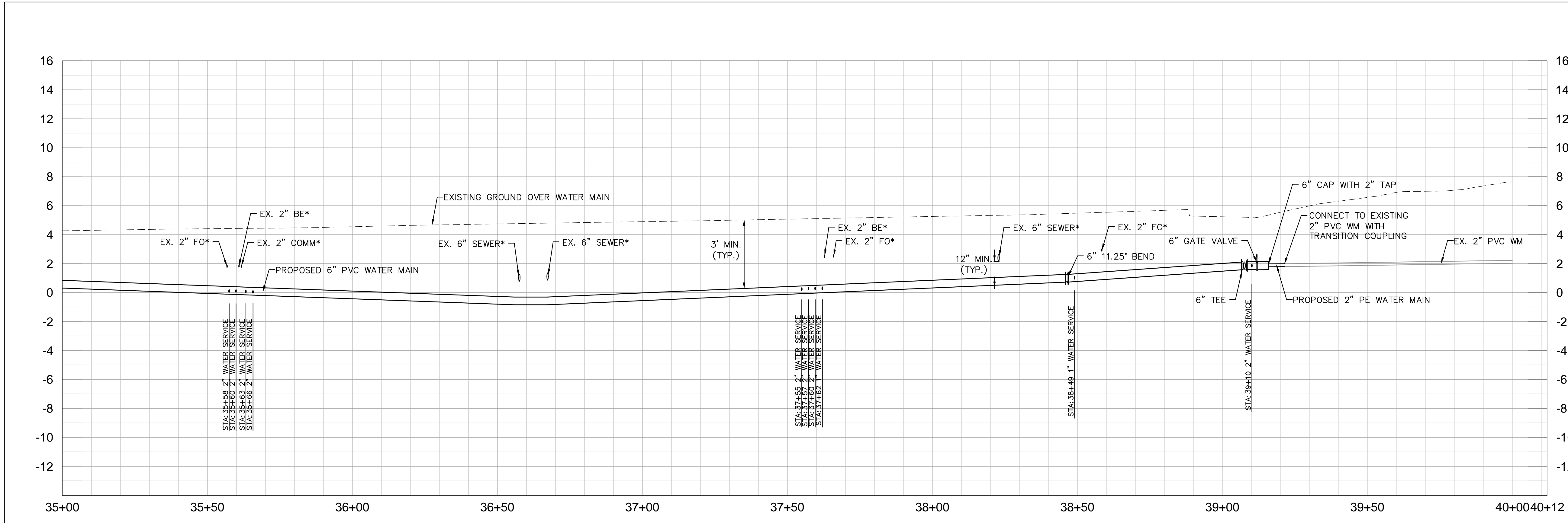
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
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No.	REVISIONS	DATE	BY

Kimley»Horn

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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

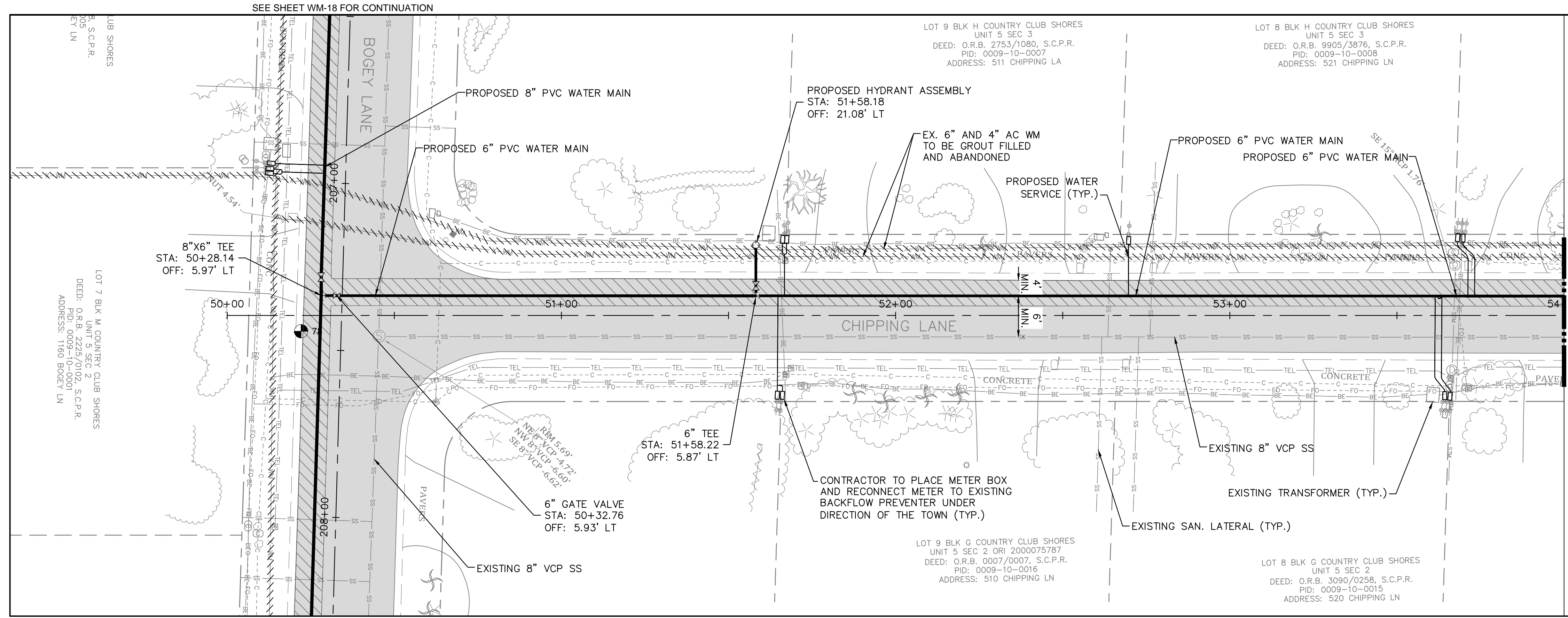
KHA PROJECT 148800007
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

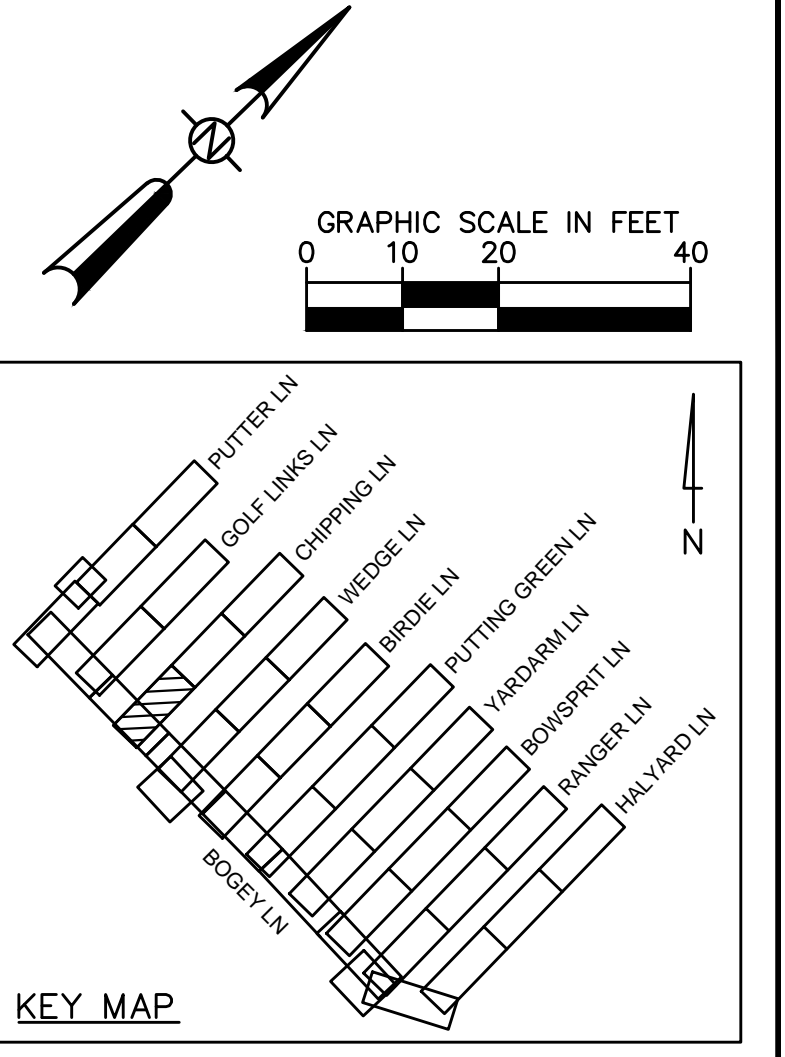
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SHEET NUMBER
WM-06

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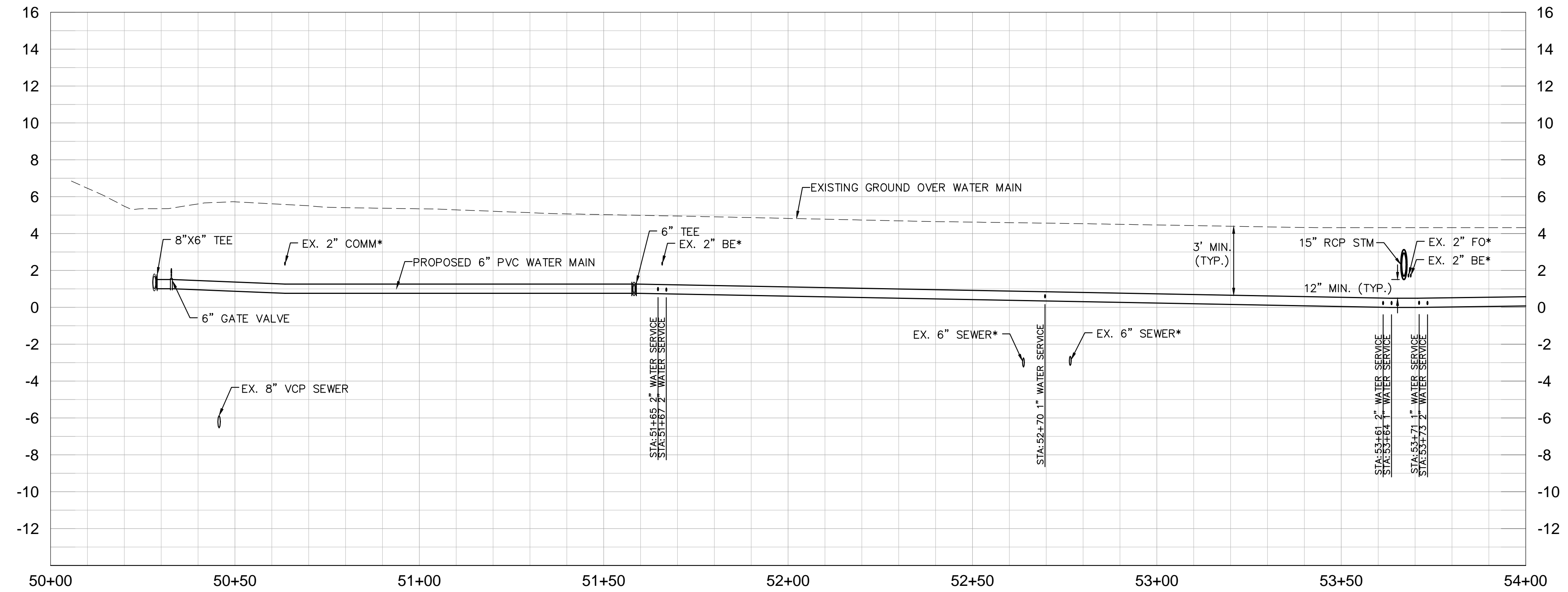


- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
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PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY

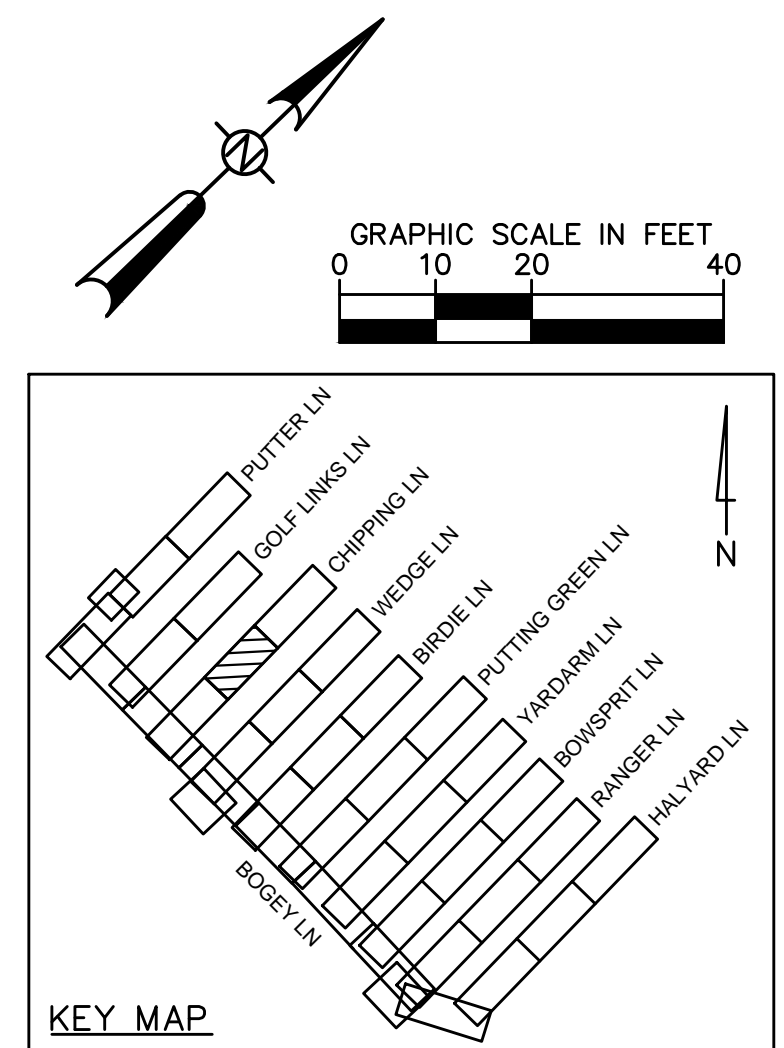
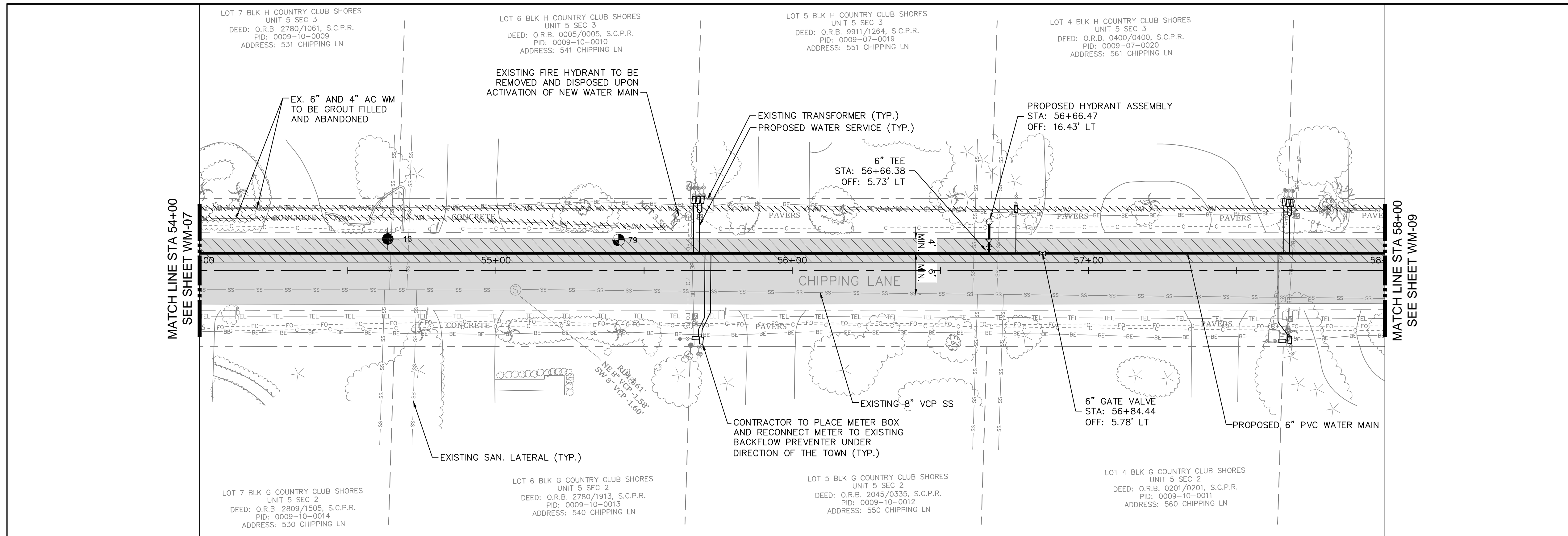
LICENSED PROFESSIONAL
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66476
FL DATE:

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SHEET NUMBER
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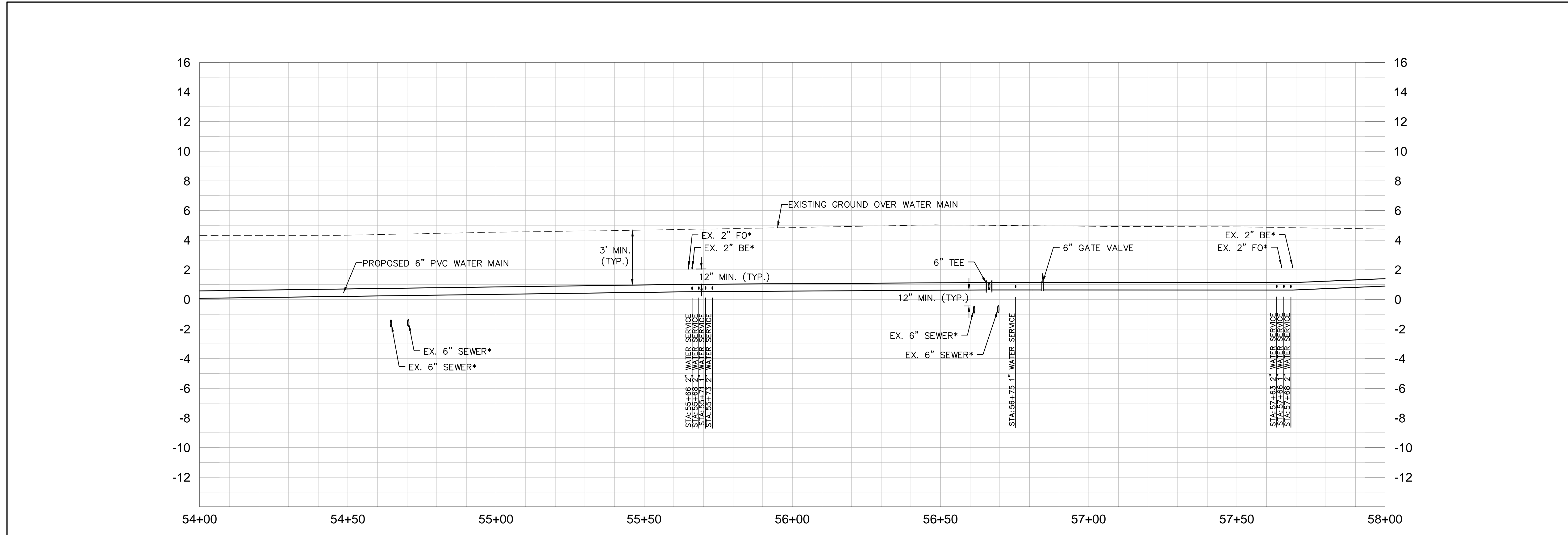
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 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
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Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

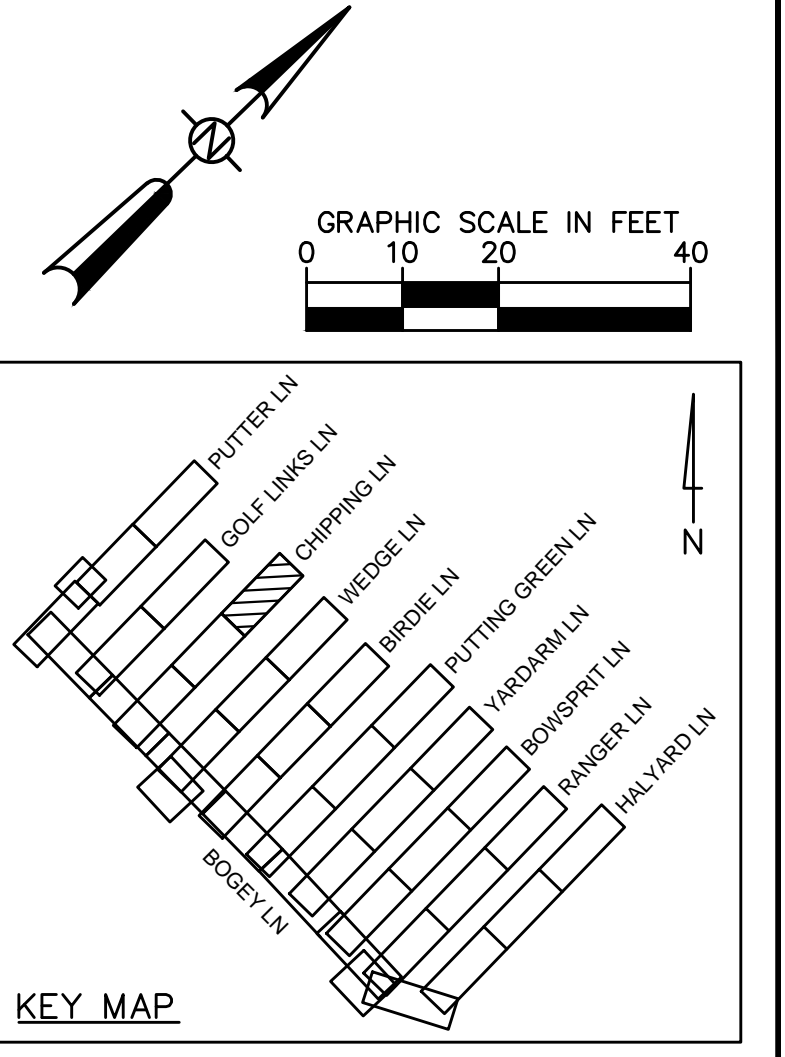
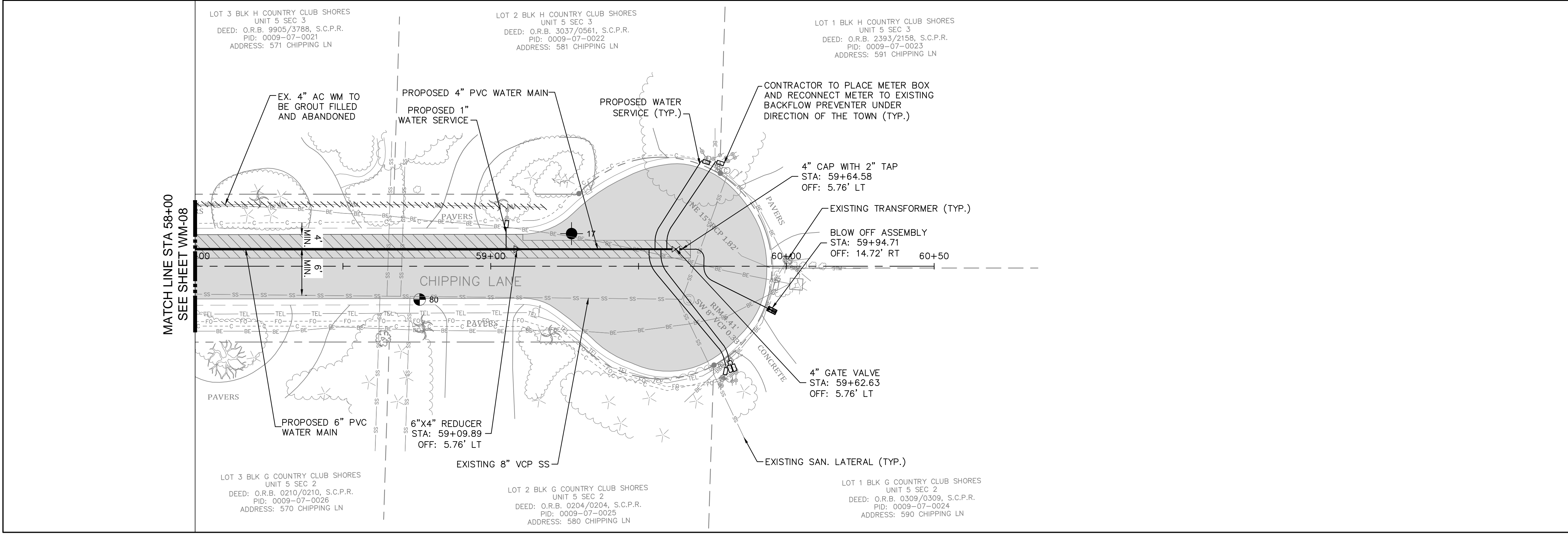
SARASOTA COUNTY

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 66476
 FL DATE:

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CHIPPING LANE
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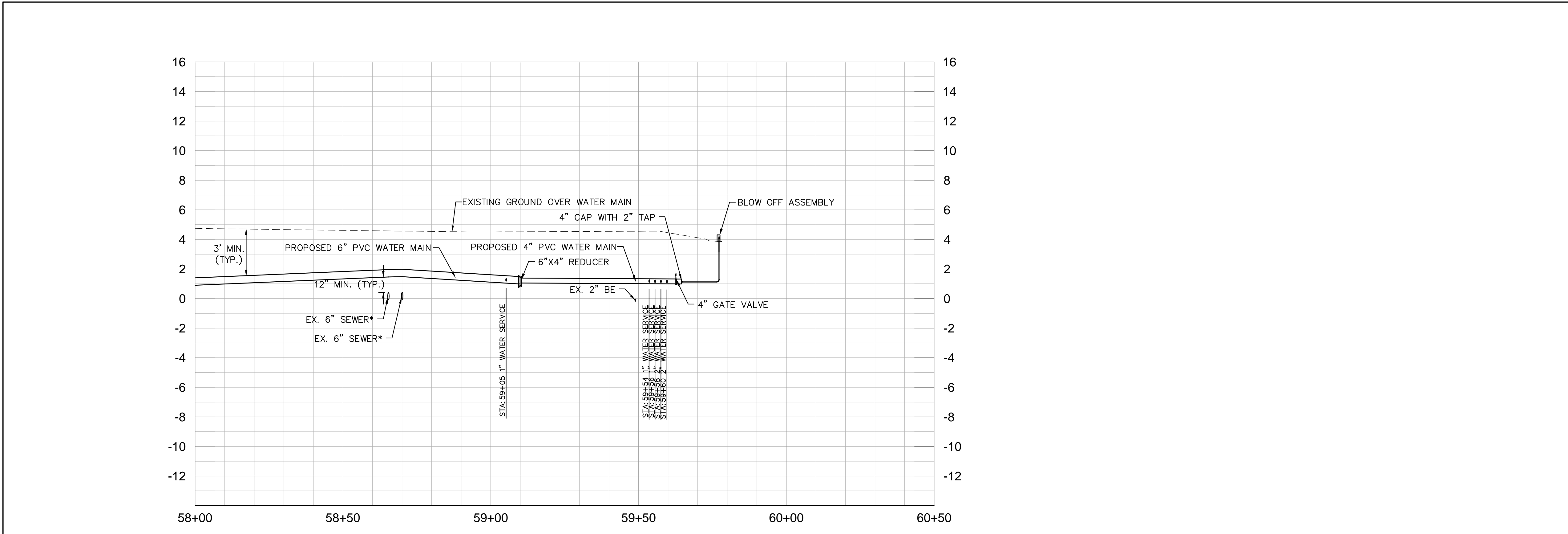
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No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 14880007
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

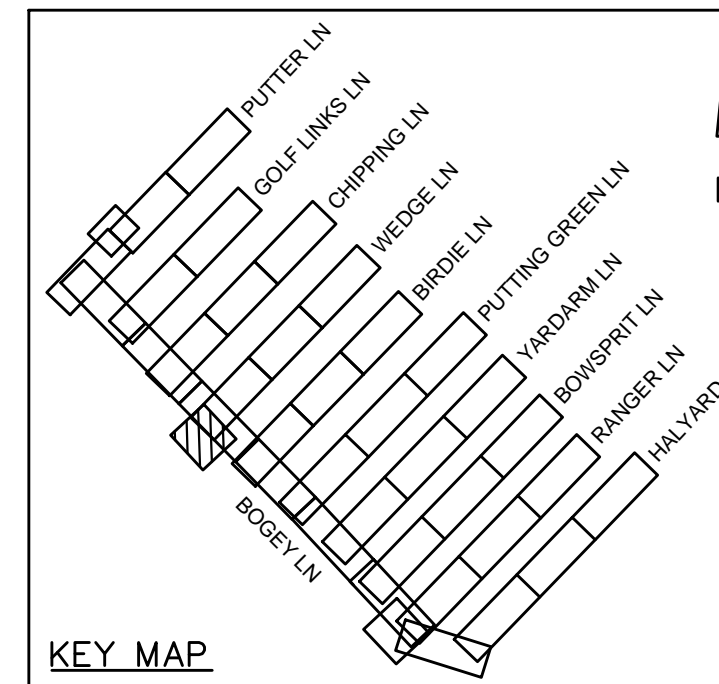
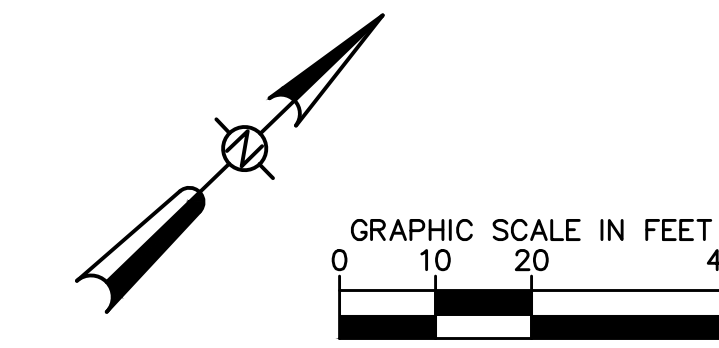
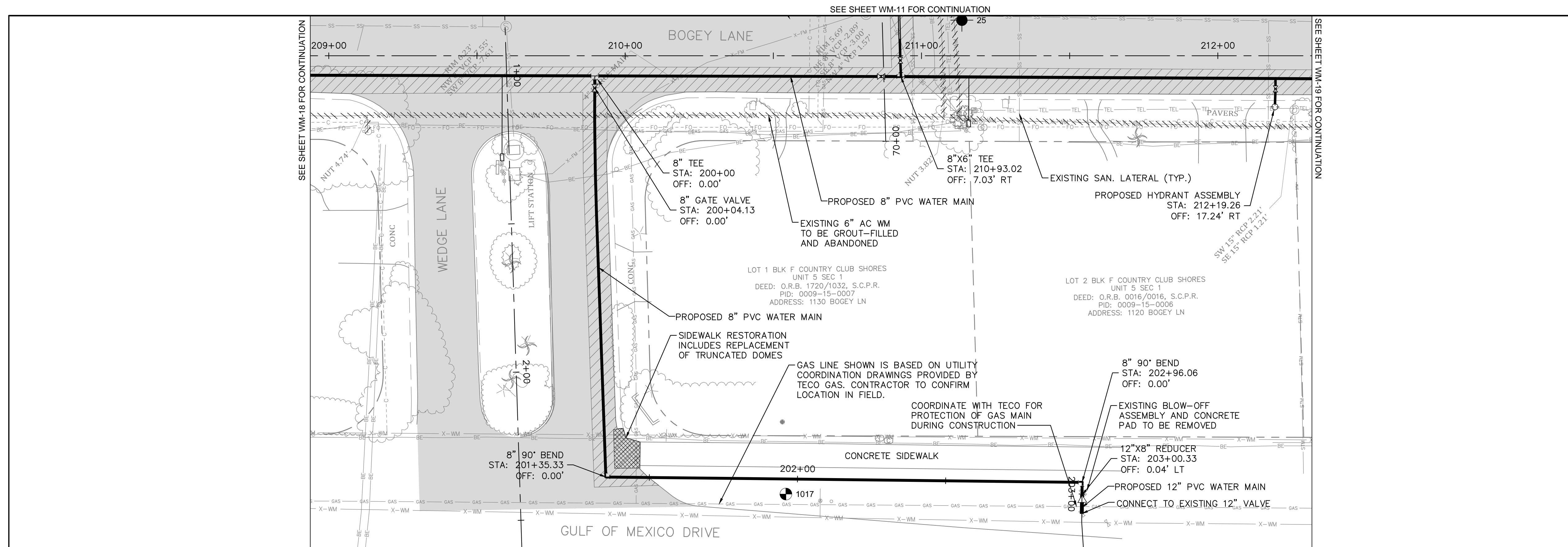
SARASOTA COUNTY

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 66476
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SHEET NUMBER
WM-09

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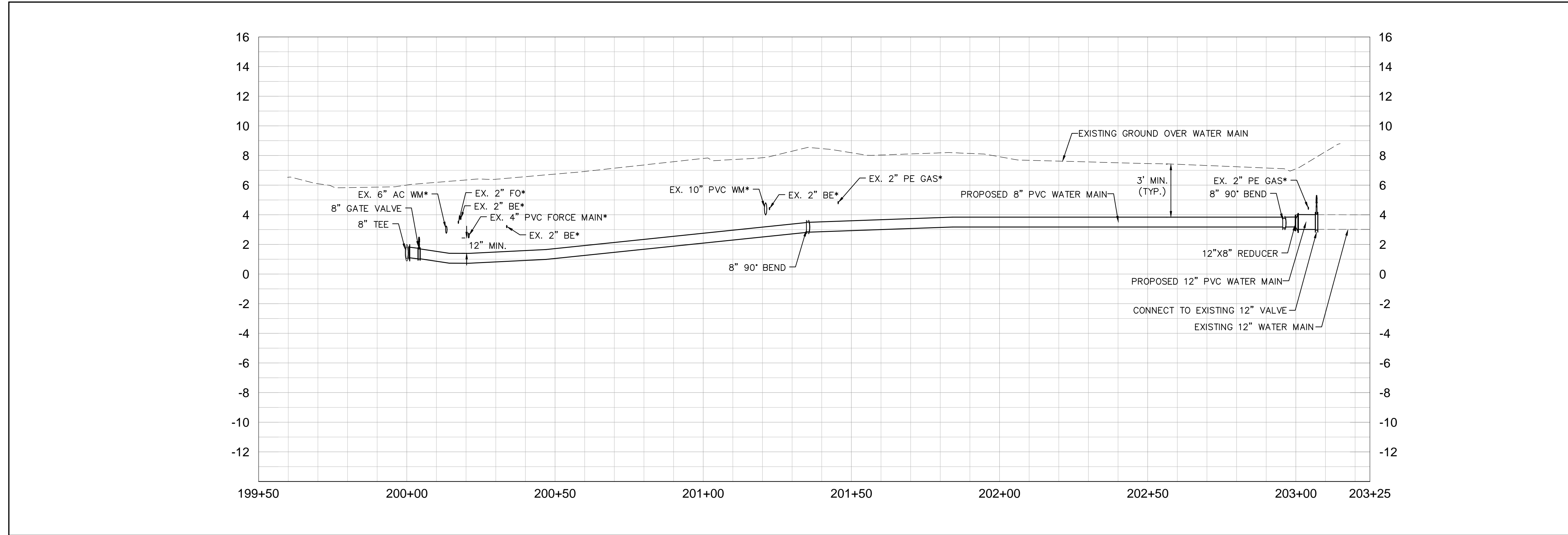
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION

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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
148800007
DATE
9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY FL

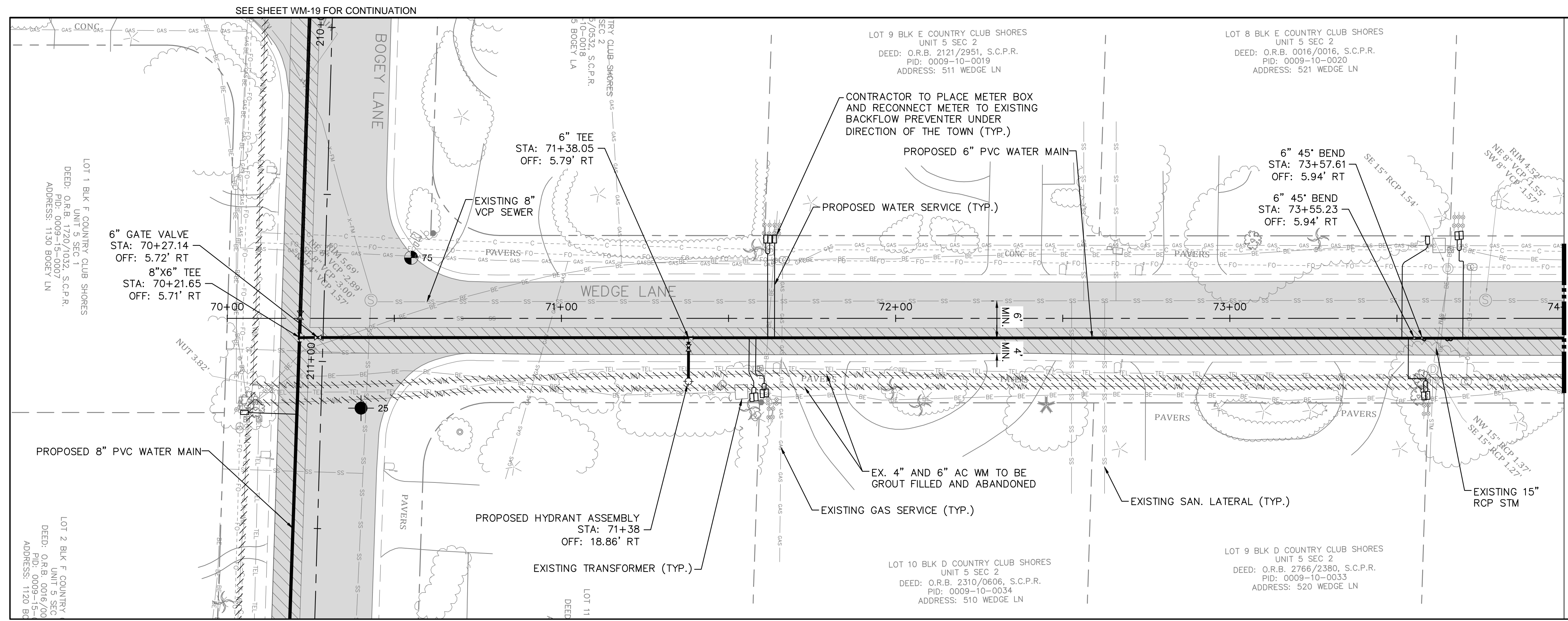
LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476

PHASE 1
GULF OF MEXICO DRIVE -
POINT OF CONNECTION

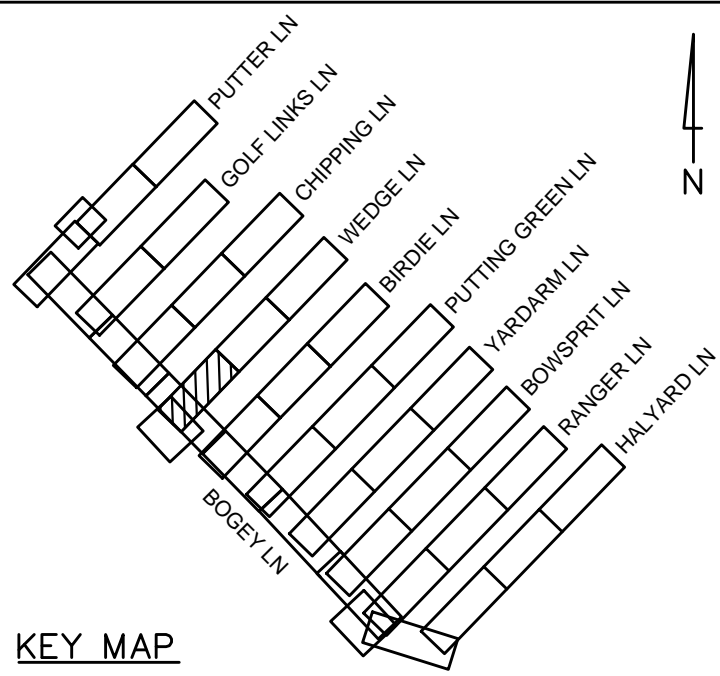
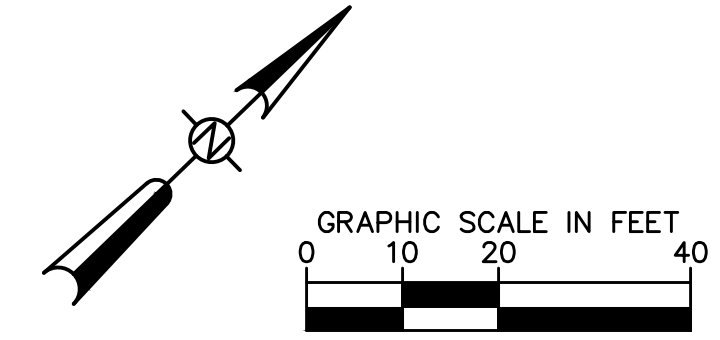
SHEET NUMBER
WM-10



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MATCH LINE STA 74+00
SEE SHEET WM-12



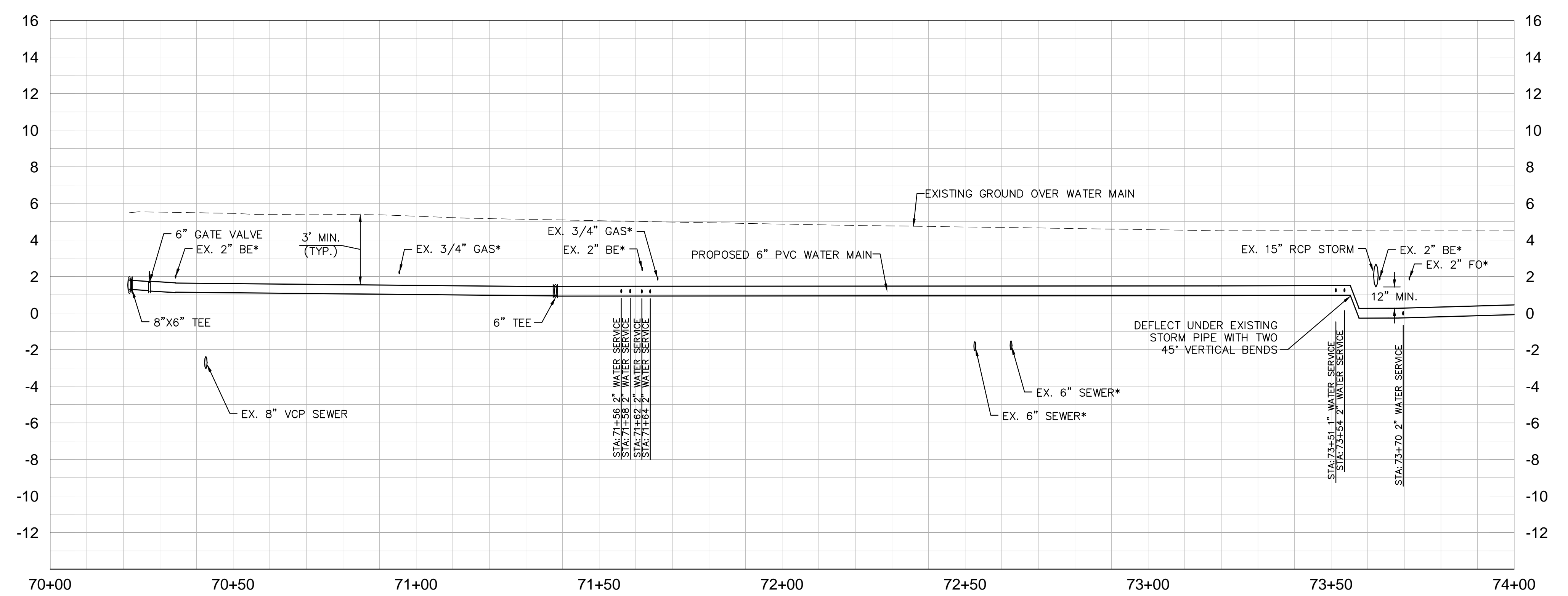
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.

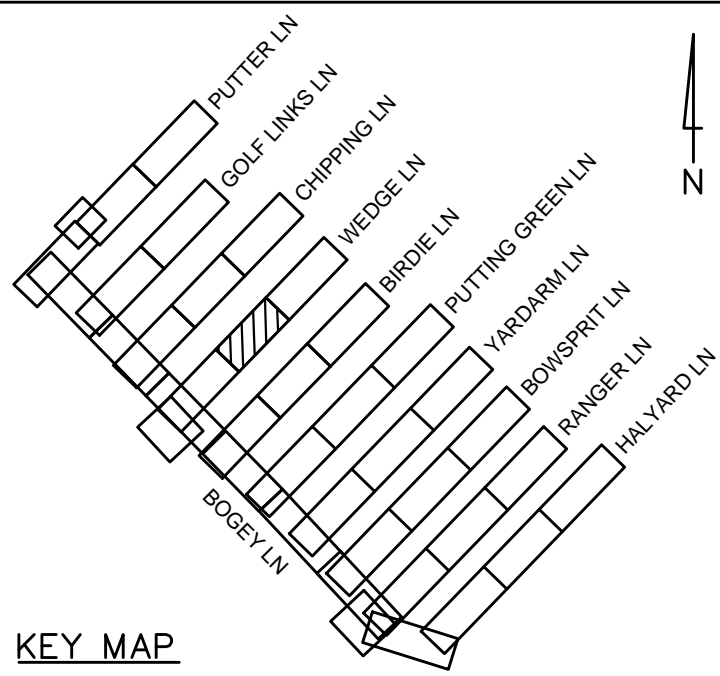
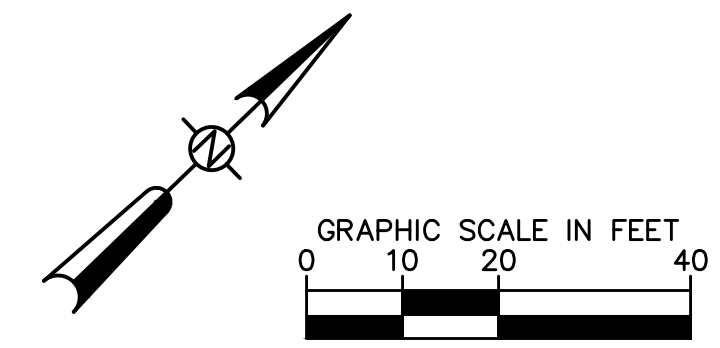
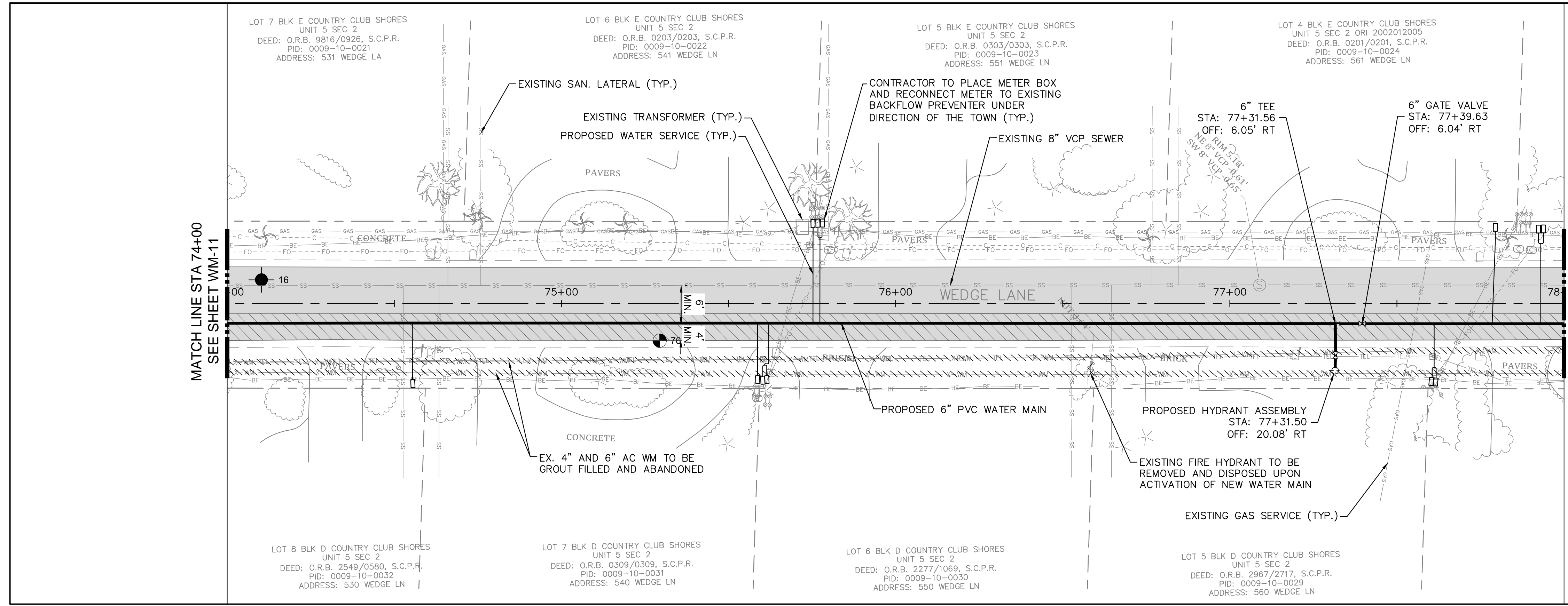
66476
FL DATE:

PHASE 1
WEDGE LANE
[70+00 - 74+00]

SHEET NUMBER
WM-11



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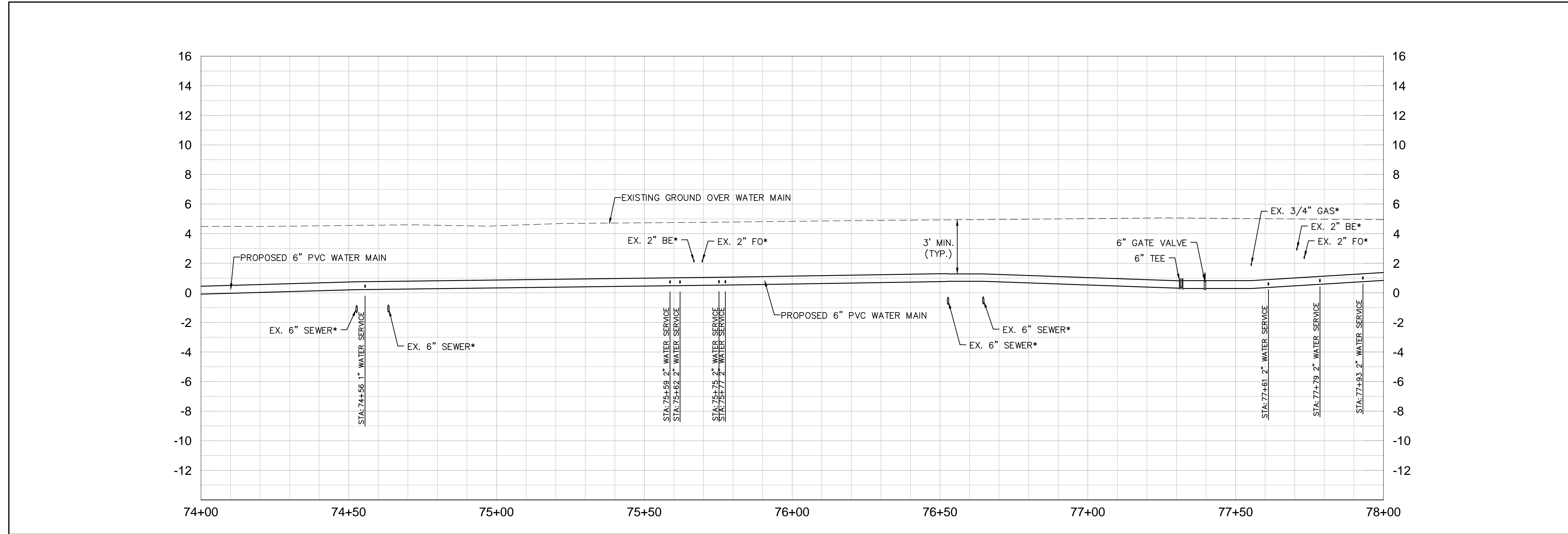
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

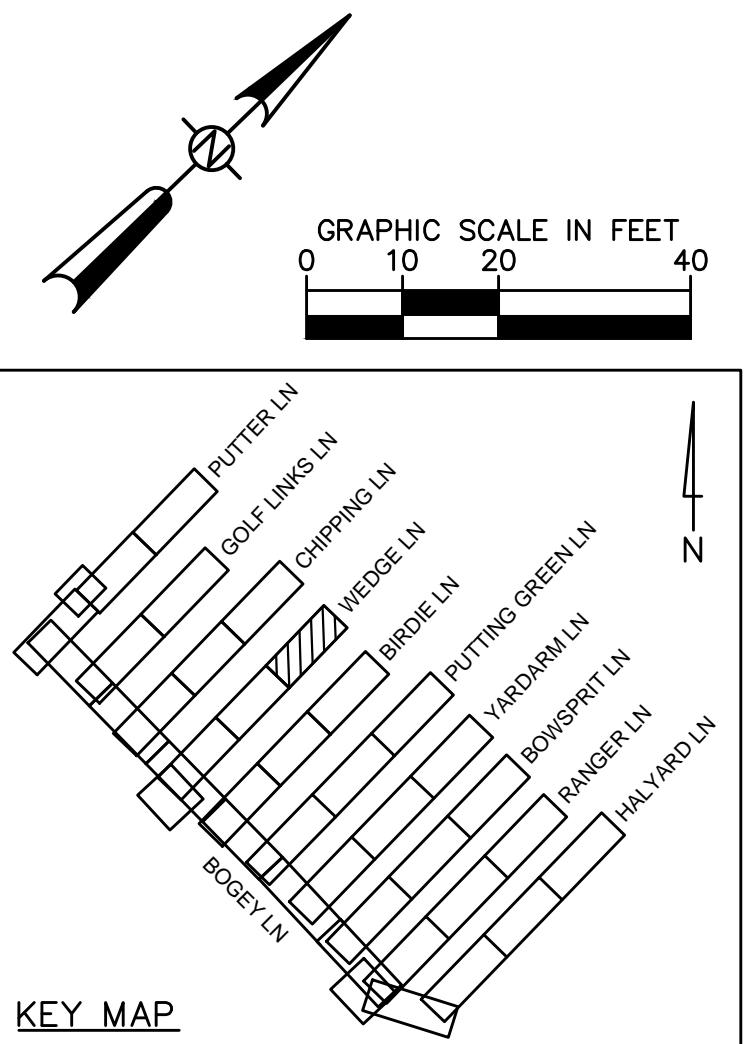
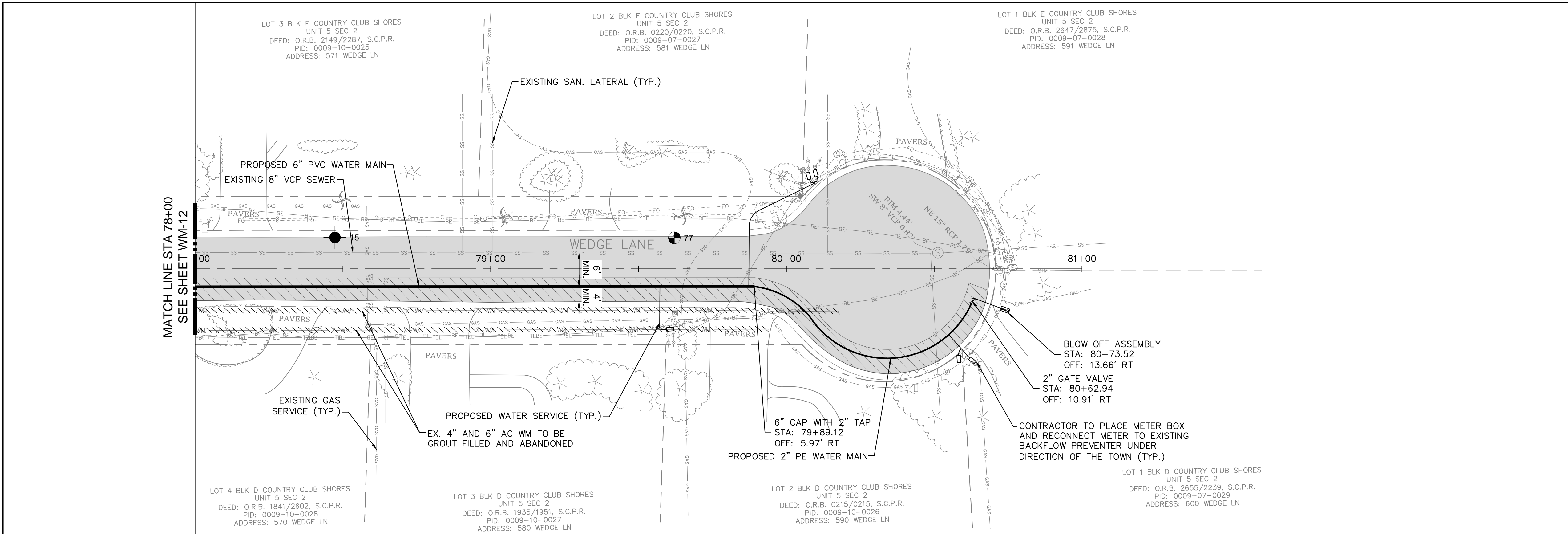
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
DATE:

PHASE 1
WEDGE LANE
[74+00 - 78+00]

SHEET NUMBER
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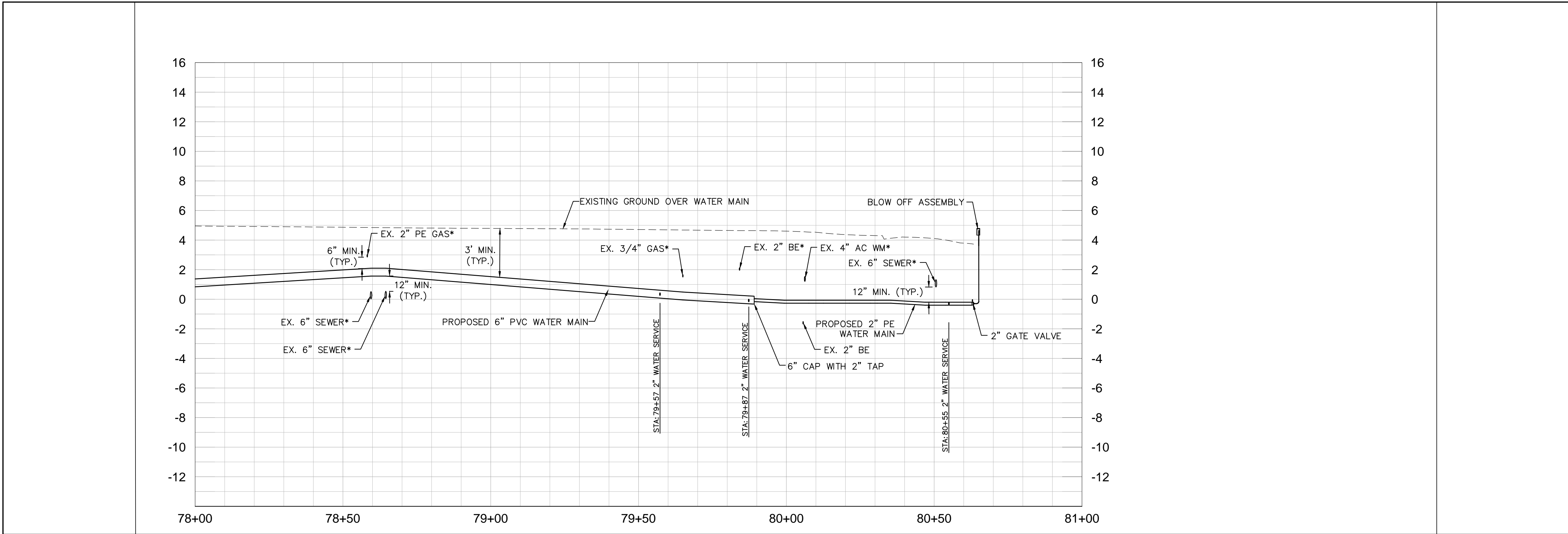
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Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

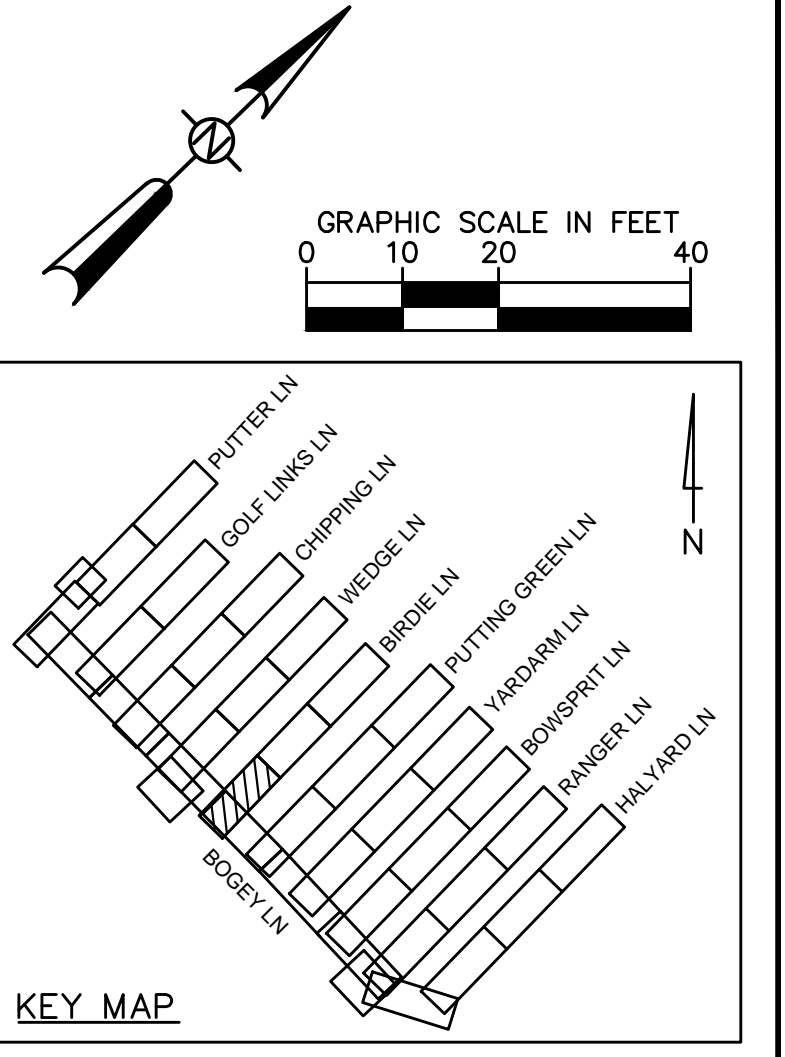
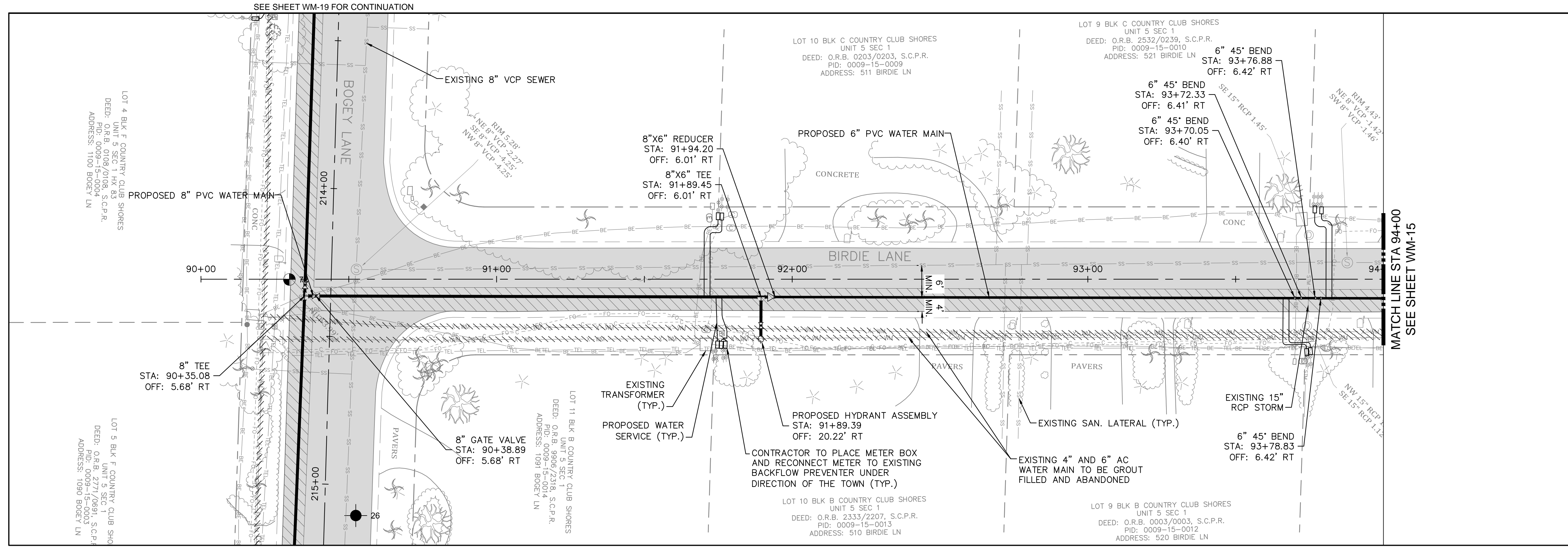
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 1
WEDGE LANE
[78+00 - 81+00]

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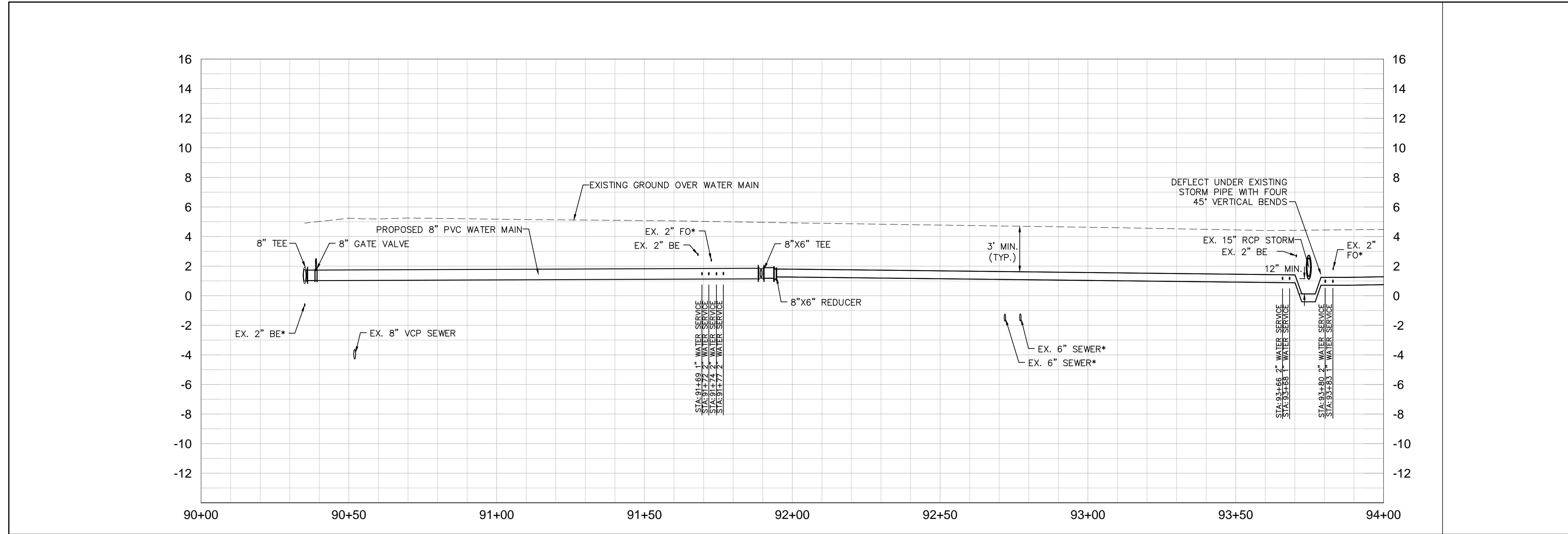


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KHA PROJECT 148800007
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**TOWN OF LONGBOAT KEY
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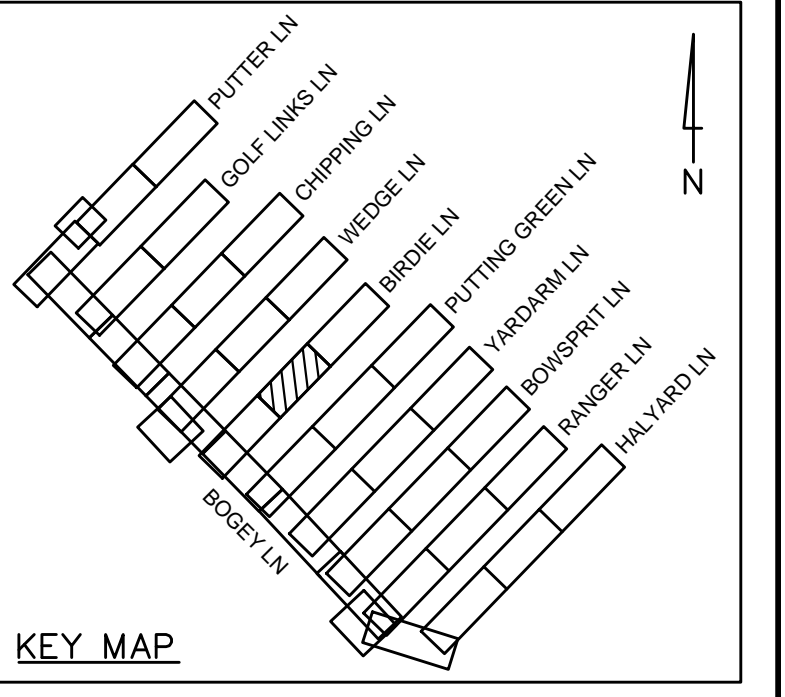
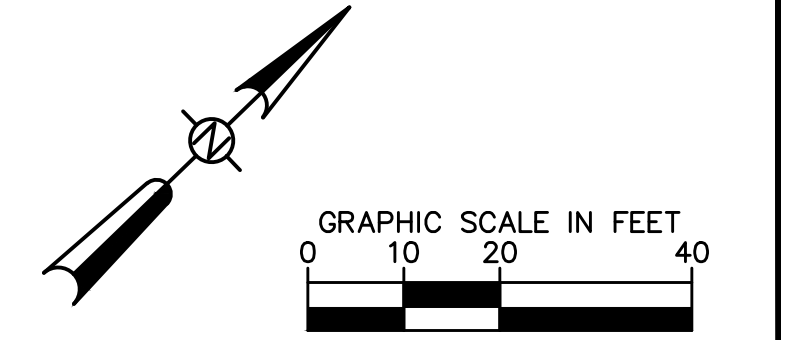
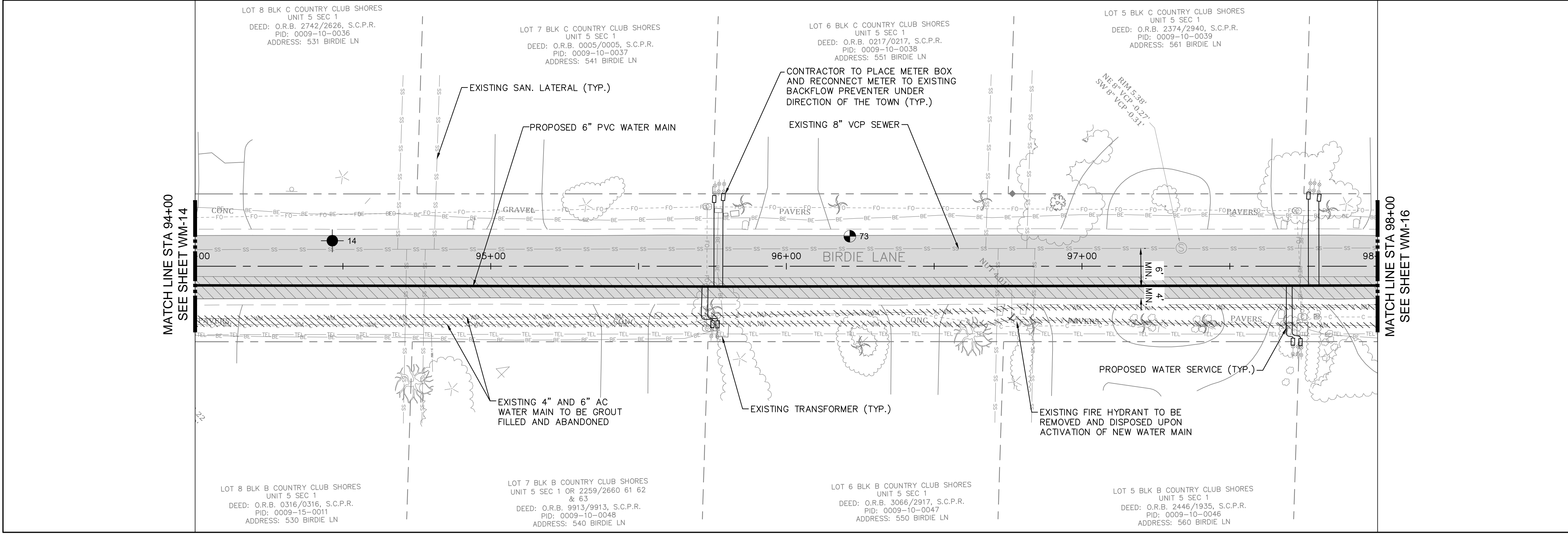
LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476

FL DATE:

**PHASE 1
BIRDIE LANE
[90+00 - 94+00]**

SHEET NUMBER
WM-14

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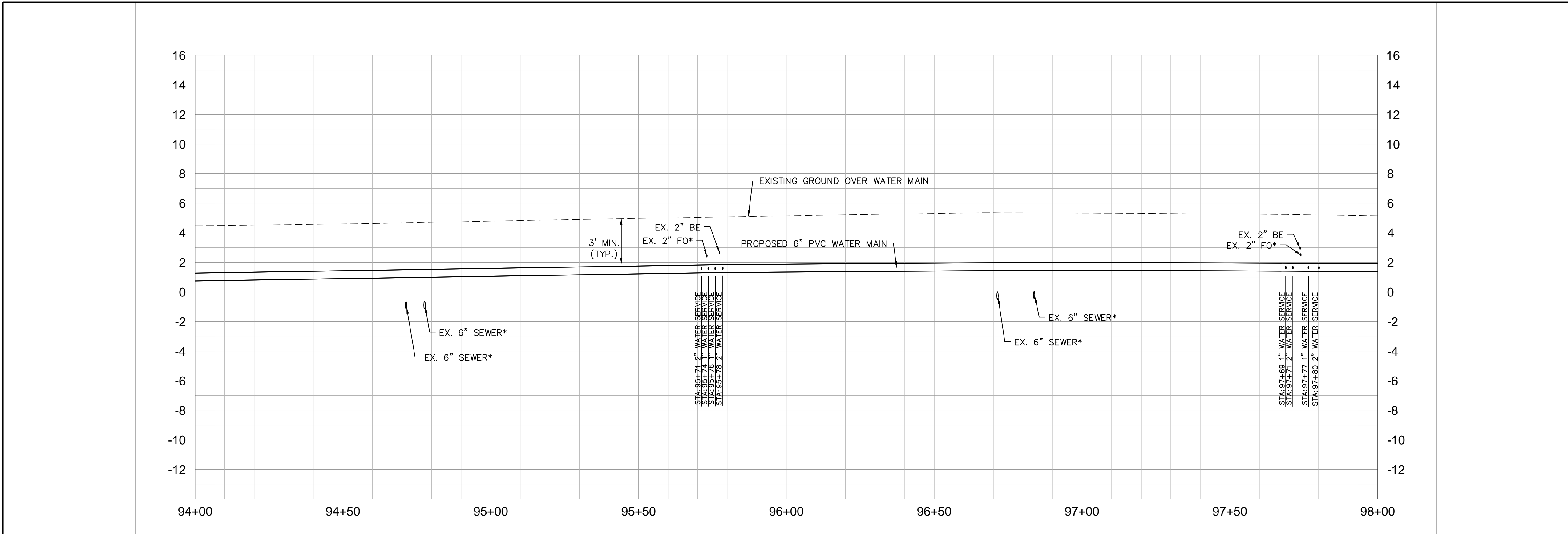
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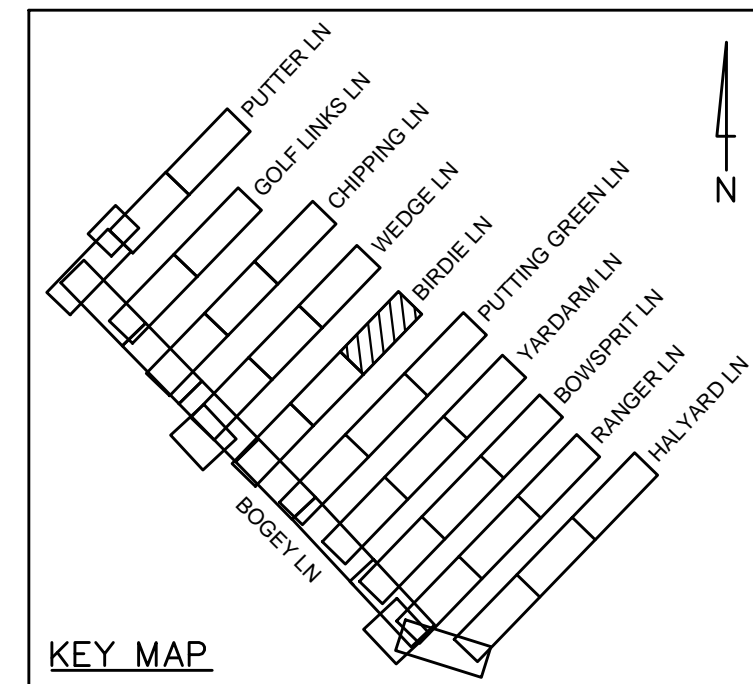
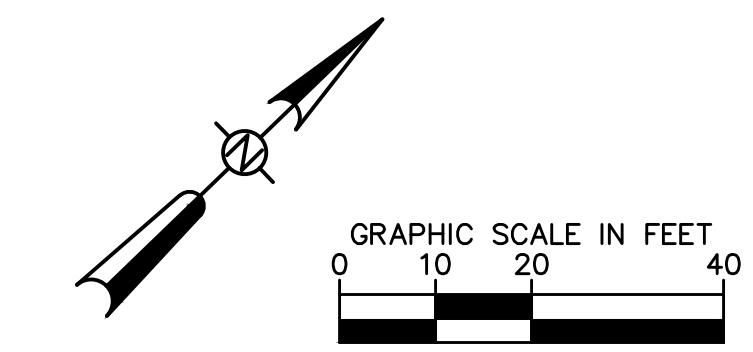
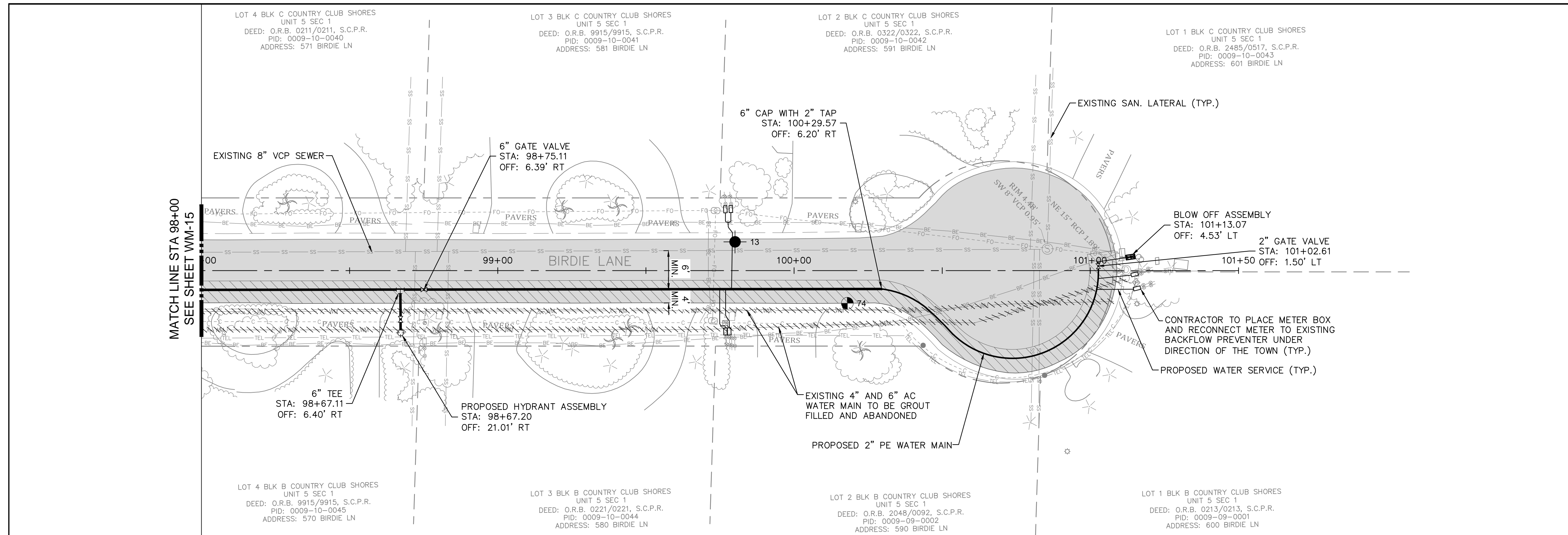
SARASOTA COUNTY

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PHASE 1
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SHEET NUMBER
WM-15

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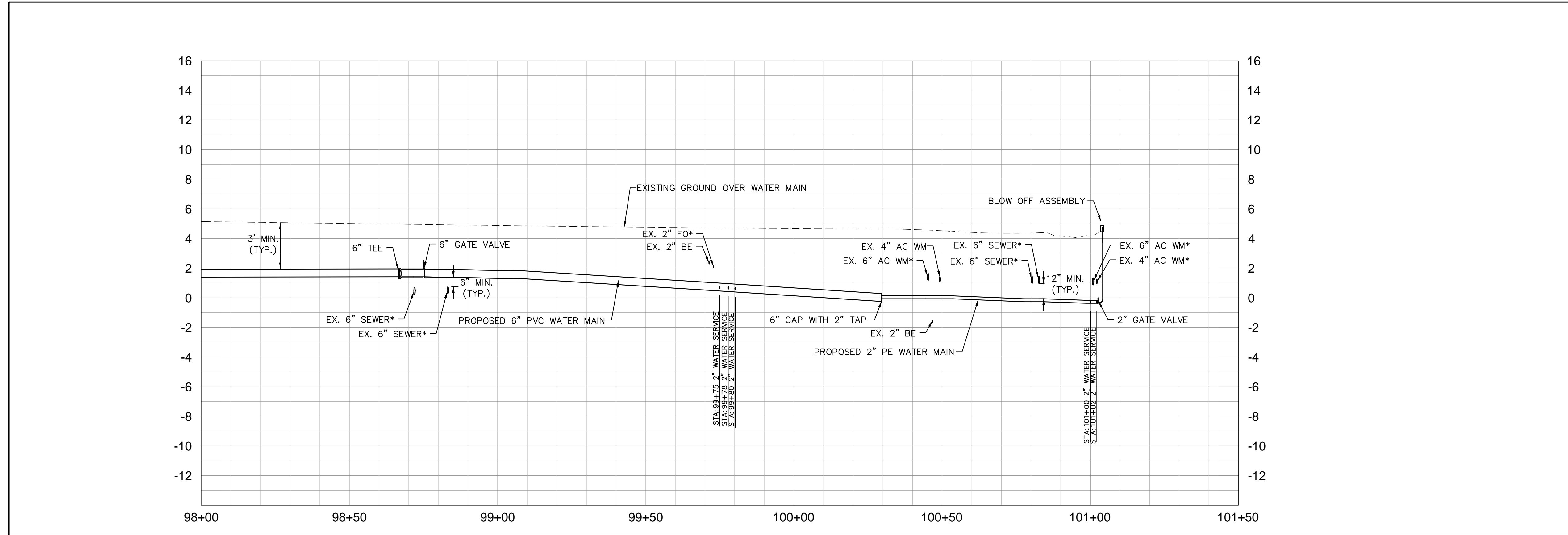
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION

- NOTES:**
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 4. REFER TO SHEET D-2, FOR SIDEWALK RESTORATION DETAILS.
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
148800007
DATE
9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

SARASOTA COUNTY

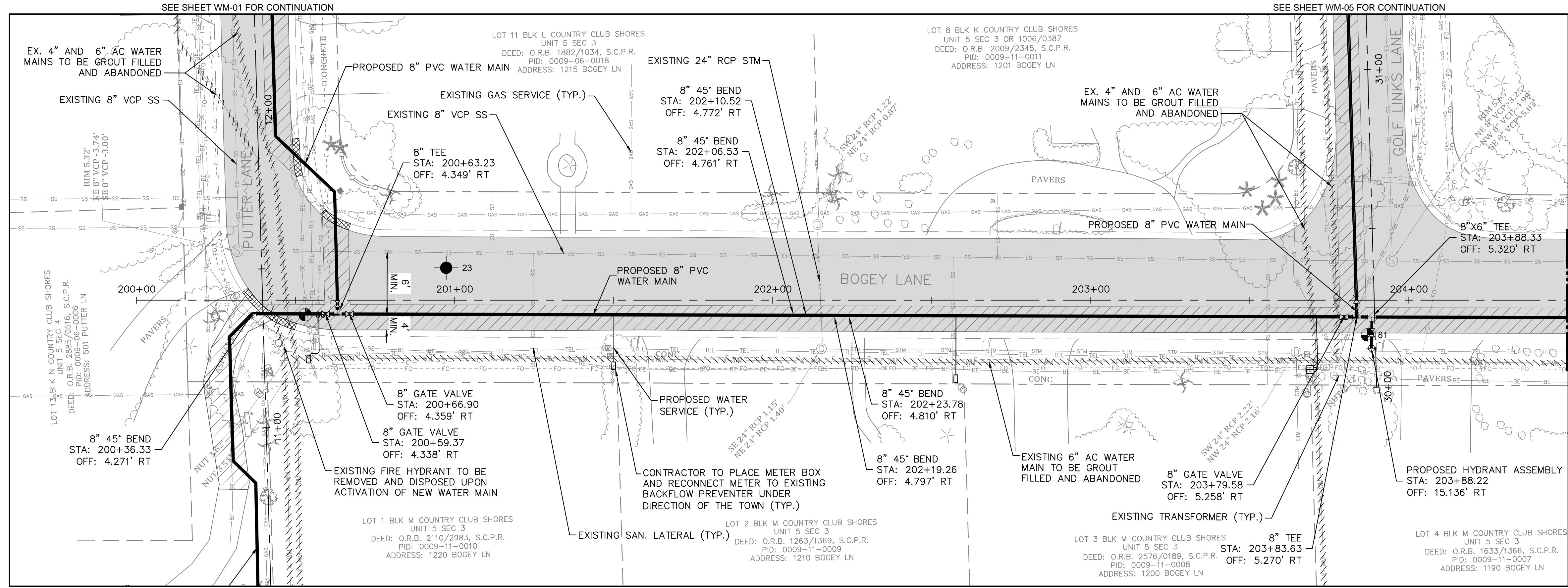
LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 1
BIRDIE LANE
[98+00 - 101+50]

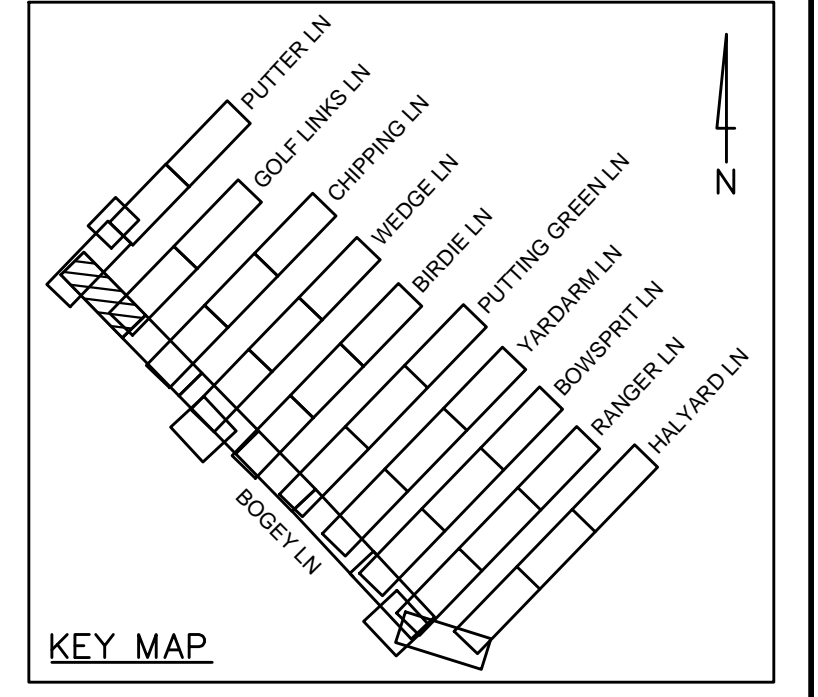
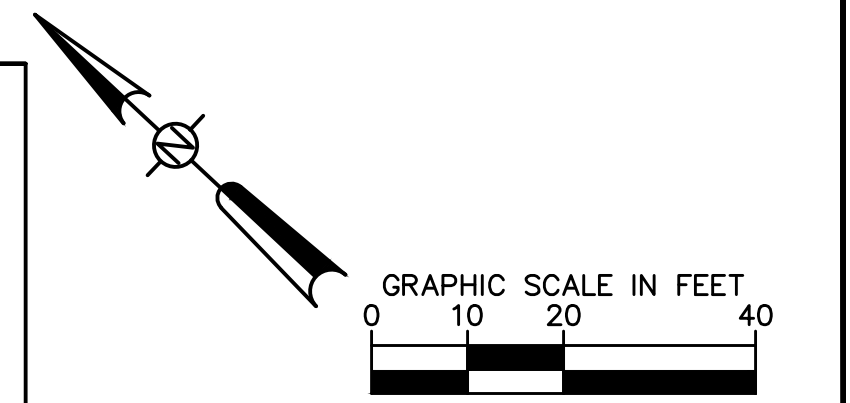
SHEET NUMBER
WM-16



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MATCH LINE STA 204+50
SEE SHEET WM-18



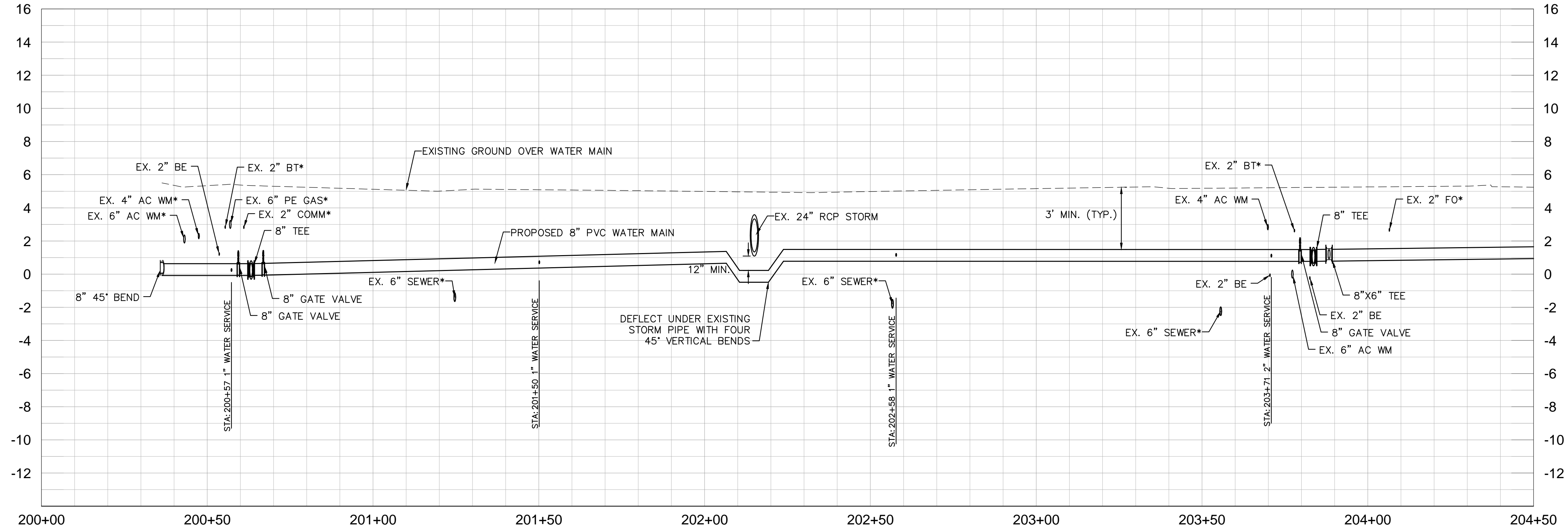
- LEGEND**
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

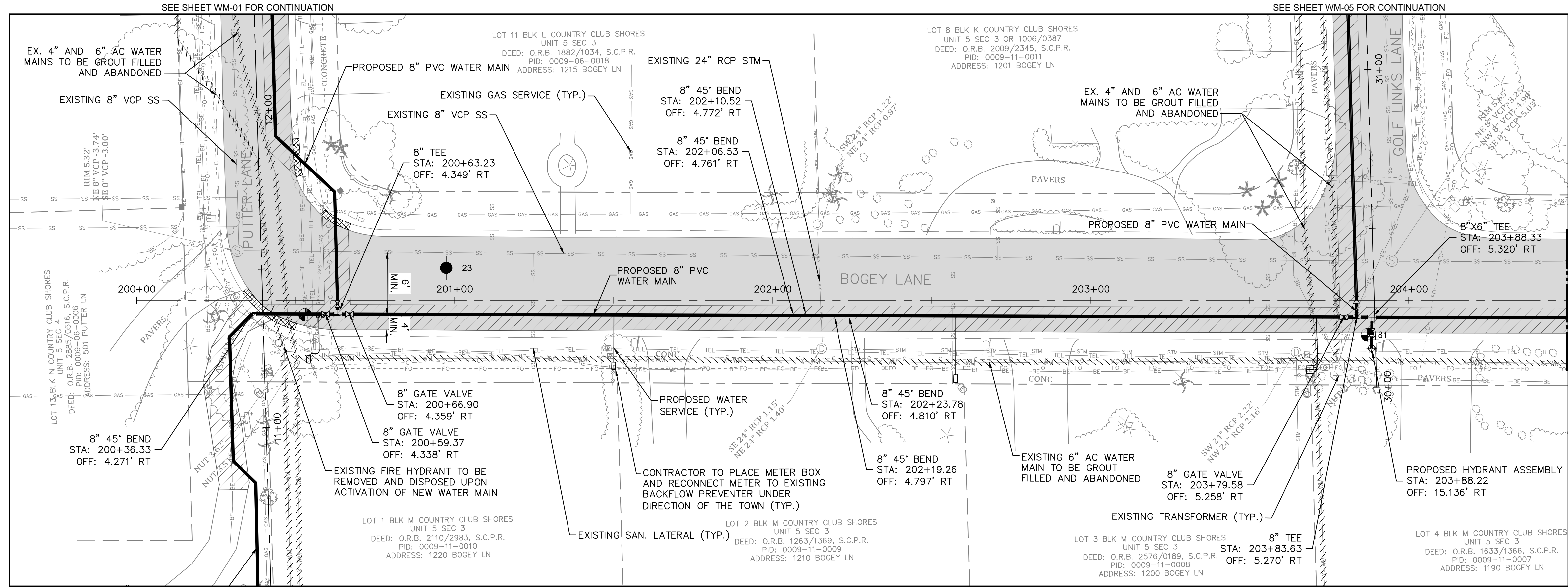
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

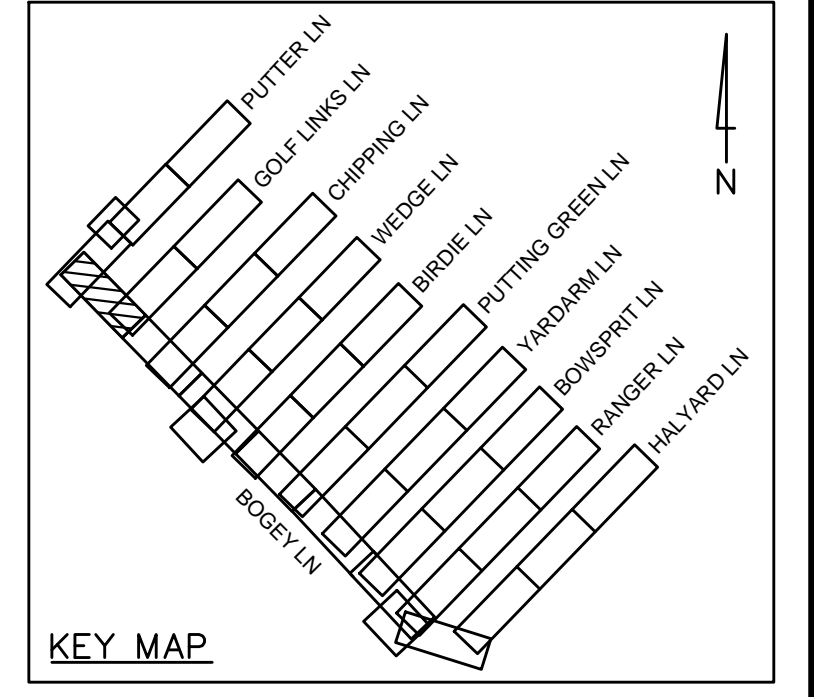
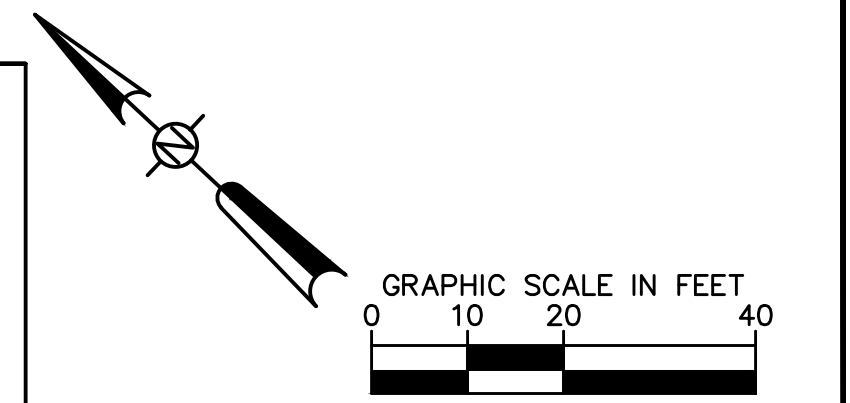
PHASE 1
BOGEY LANE
[200+00 - 204+50]

SHEET NUMBER
WM-17

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MATCH LINE STA 204+50
SEE SHEET WM-18



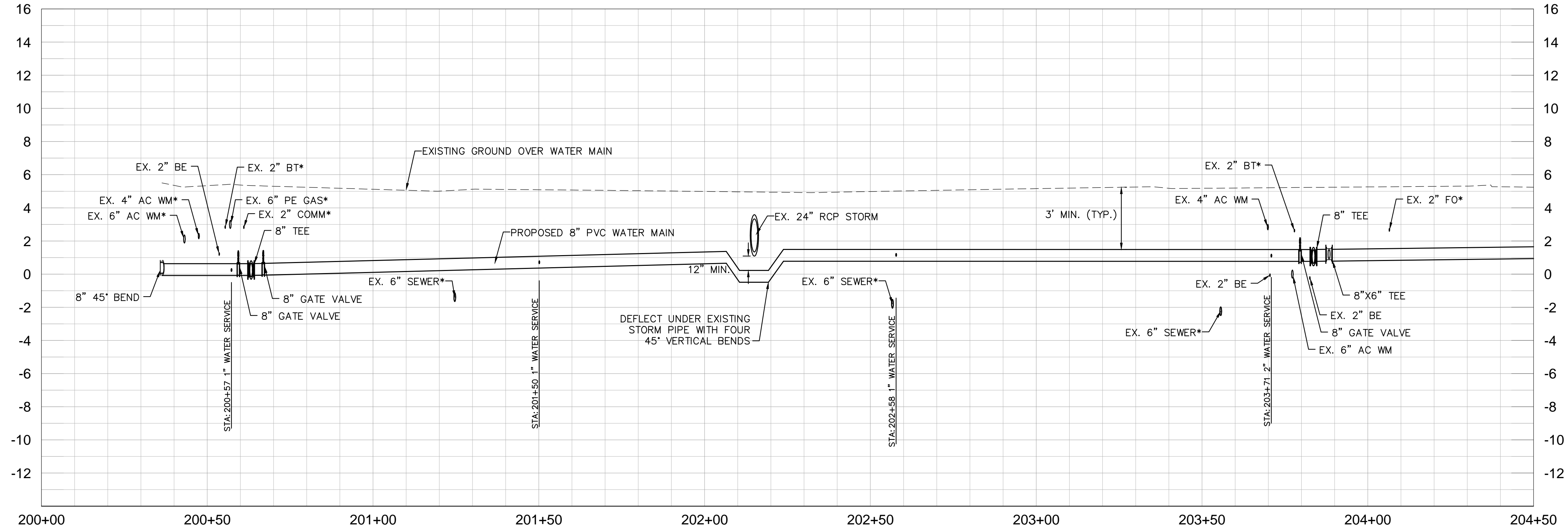
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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MKK
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

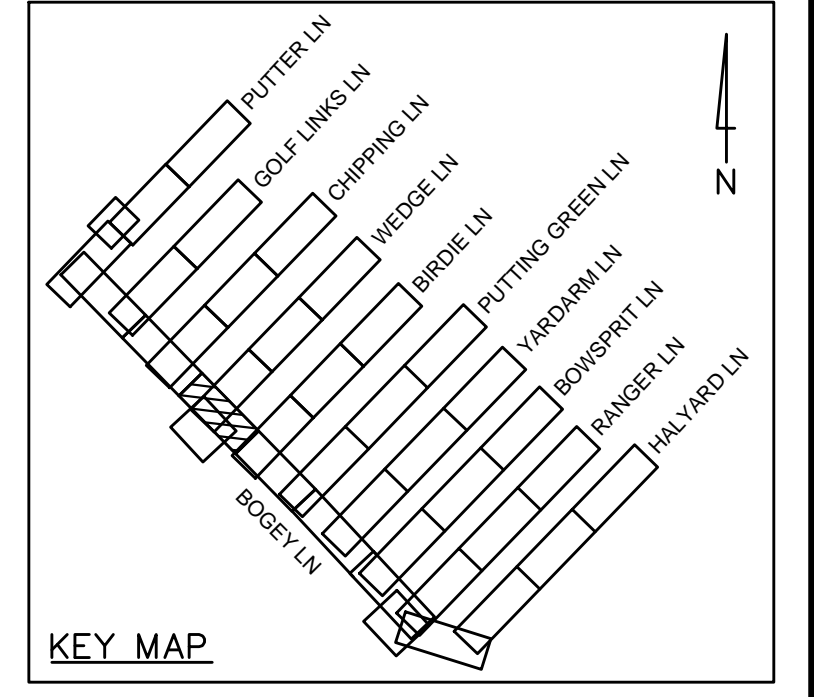
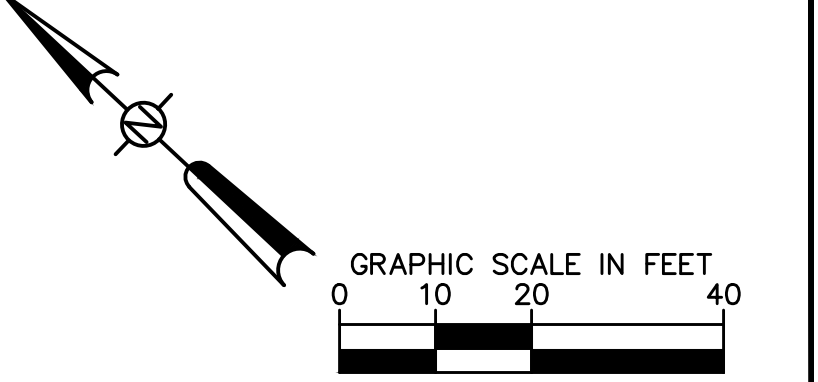
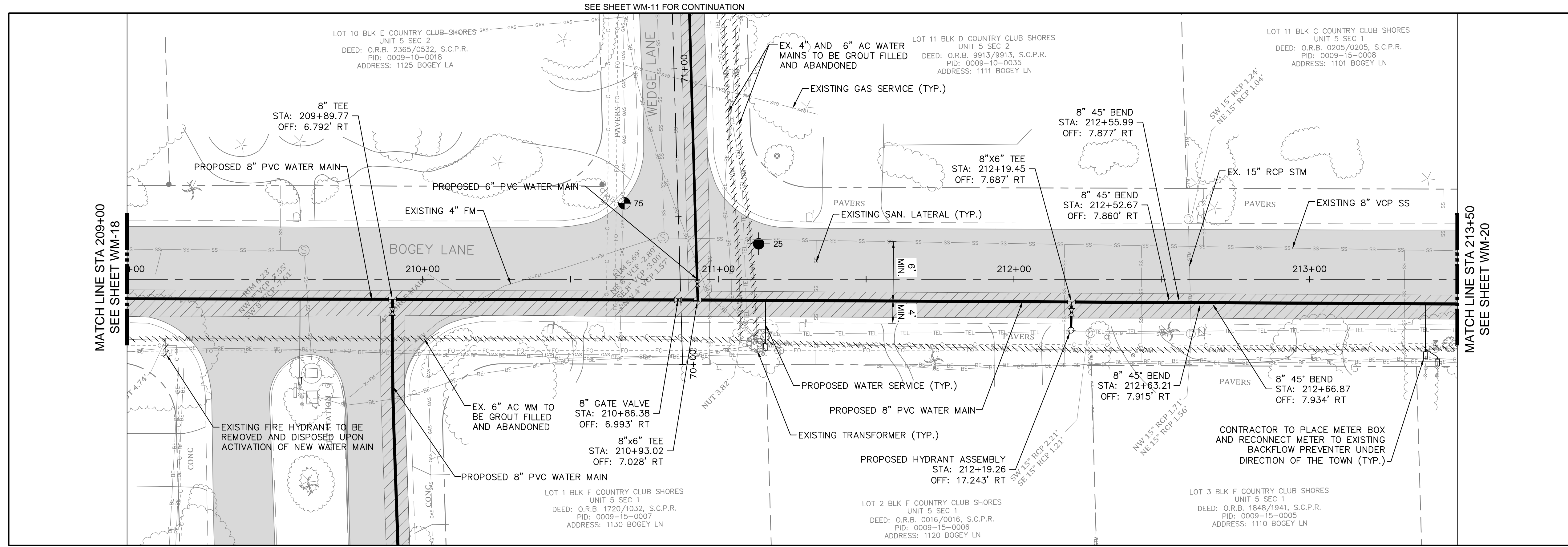
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

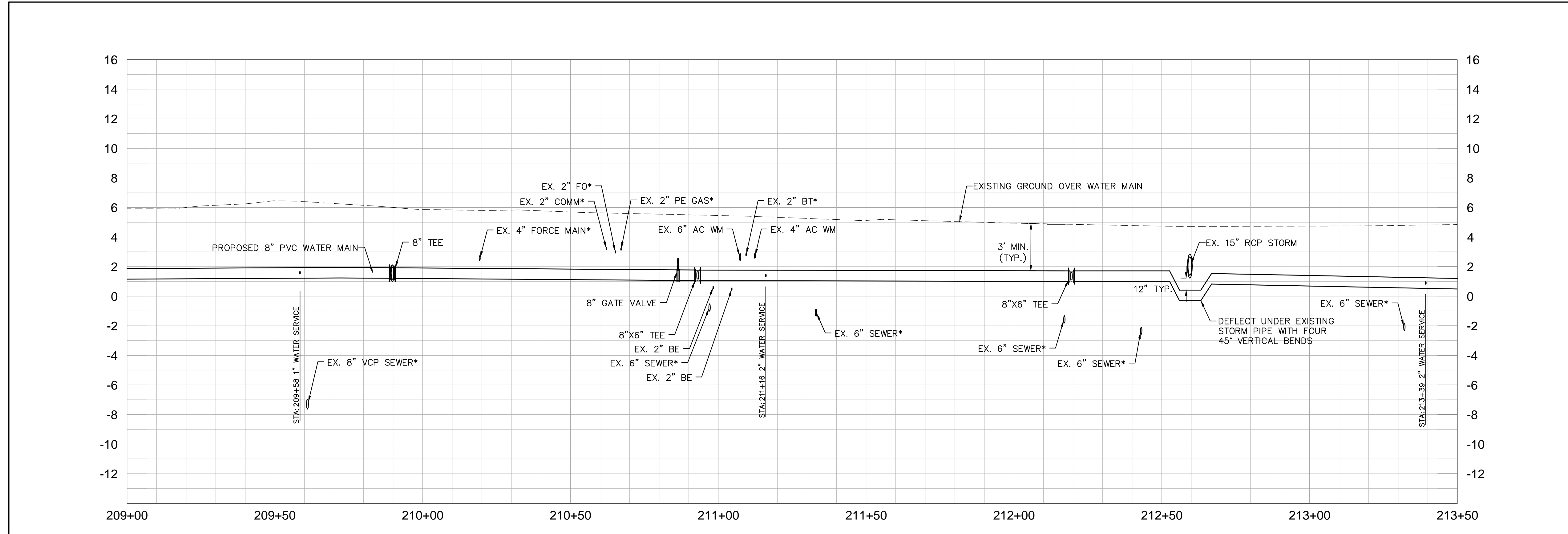
PHASE 1
BOGEY LANE
[200+00 - 204+50]

SHEET NUMBER
WM-17

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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY MKK
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

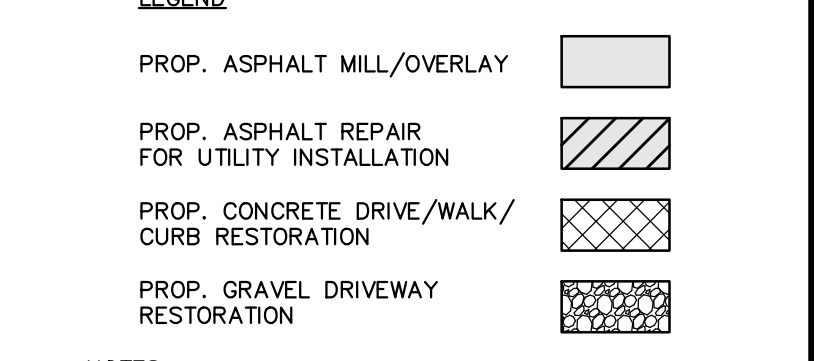
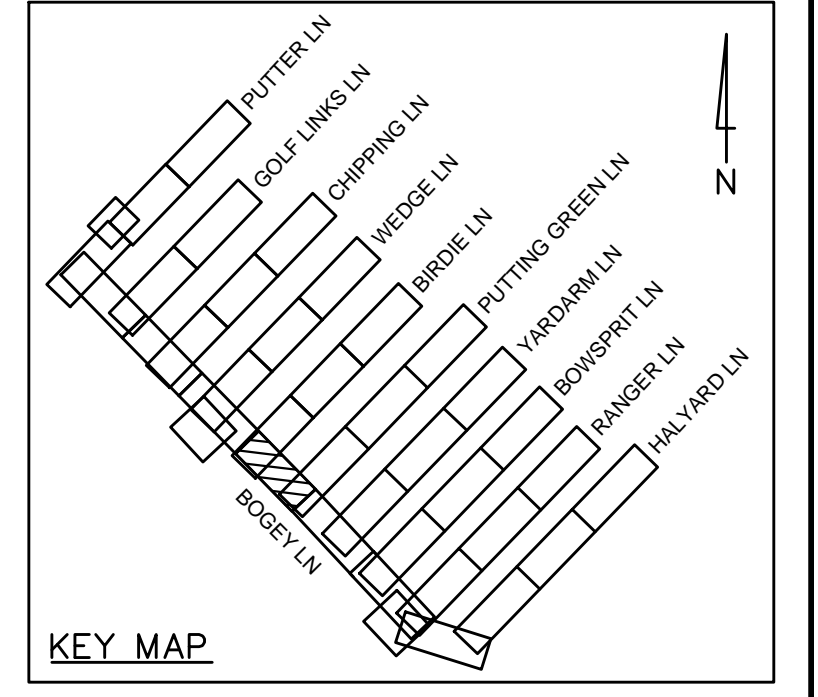
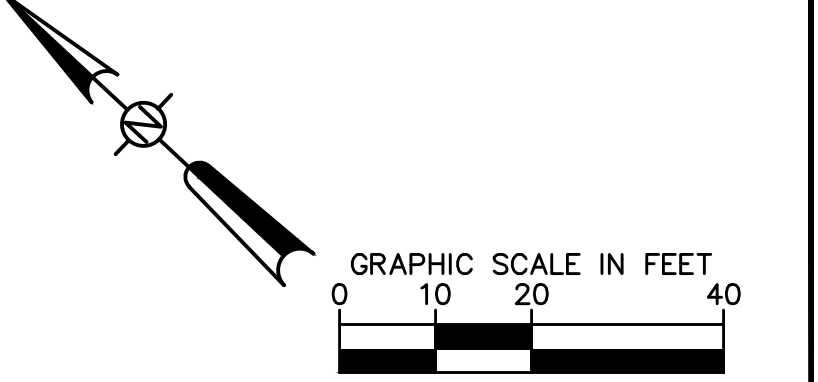
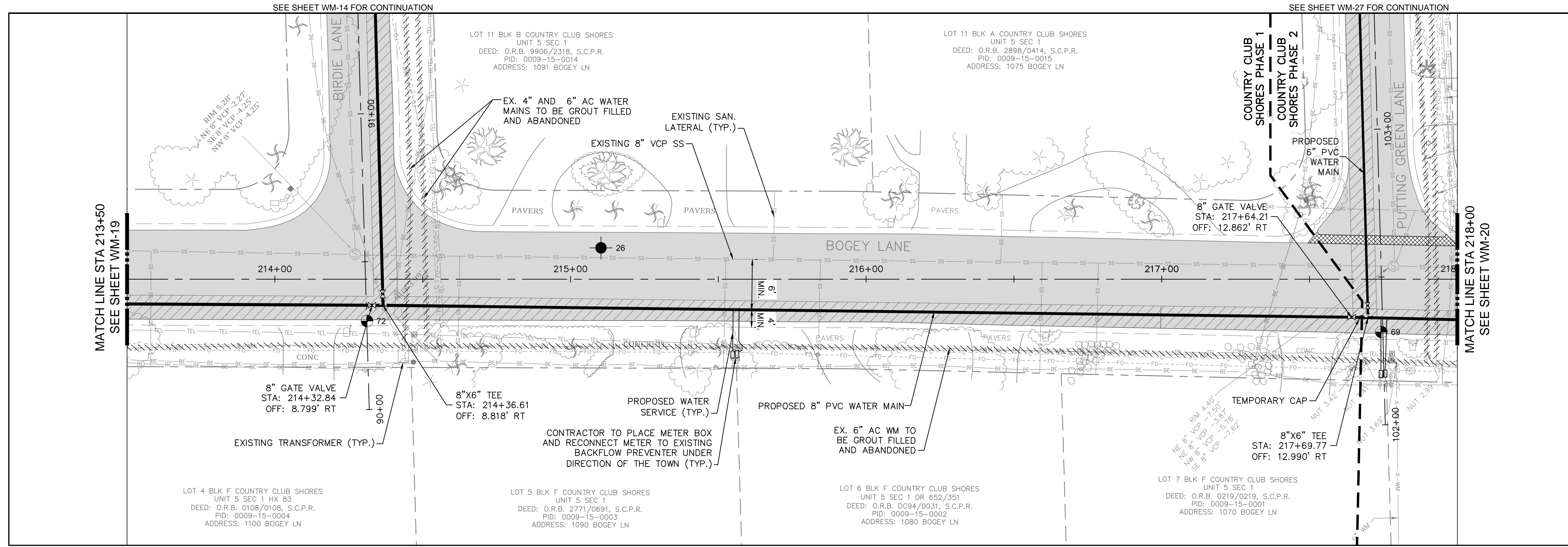
SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 1
BOGEY LANE
[209+00 - 213+50]

SHEET NUMBER
WM-19

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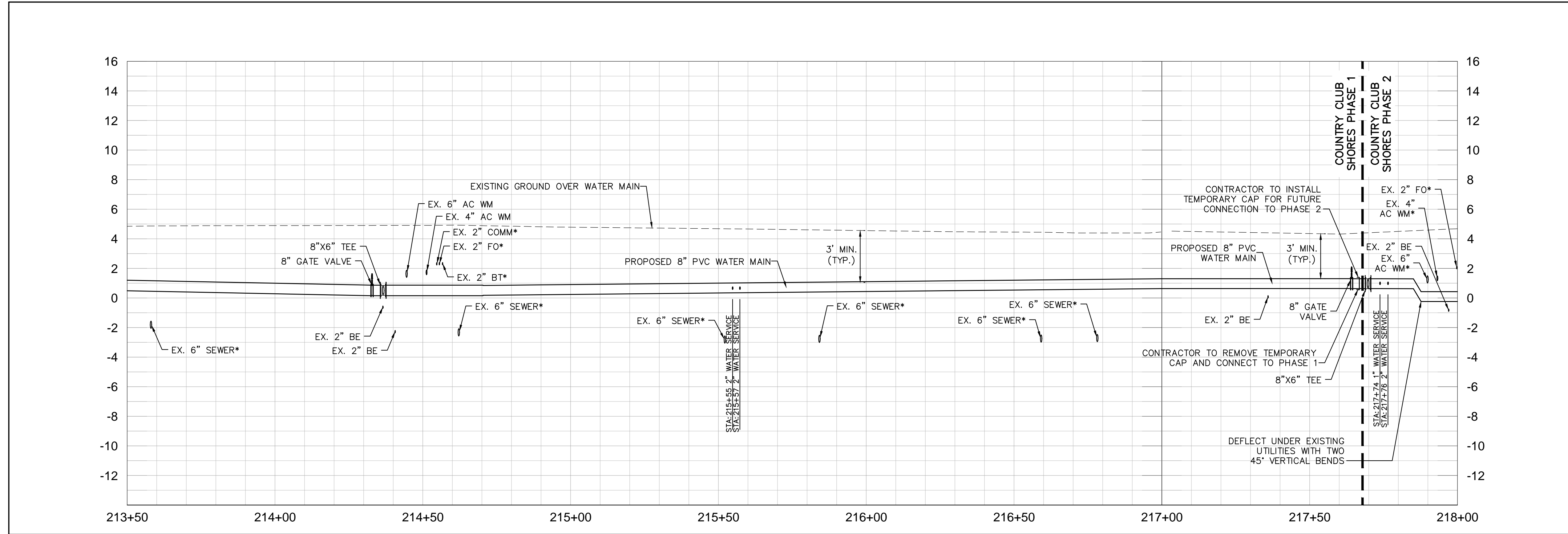


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NOT FOR CONSTRUCTION



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Kimley»Horn

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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800007
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
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CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

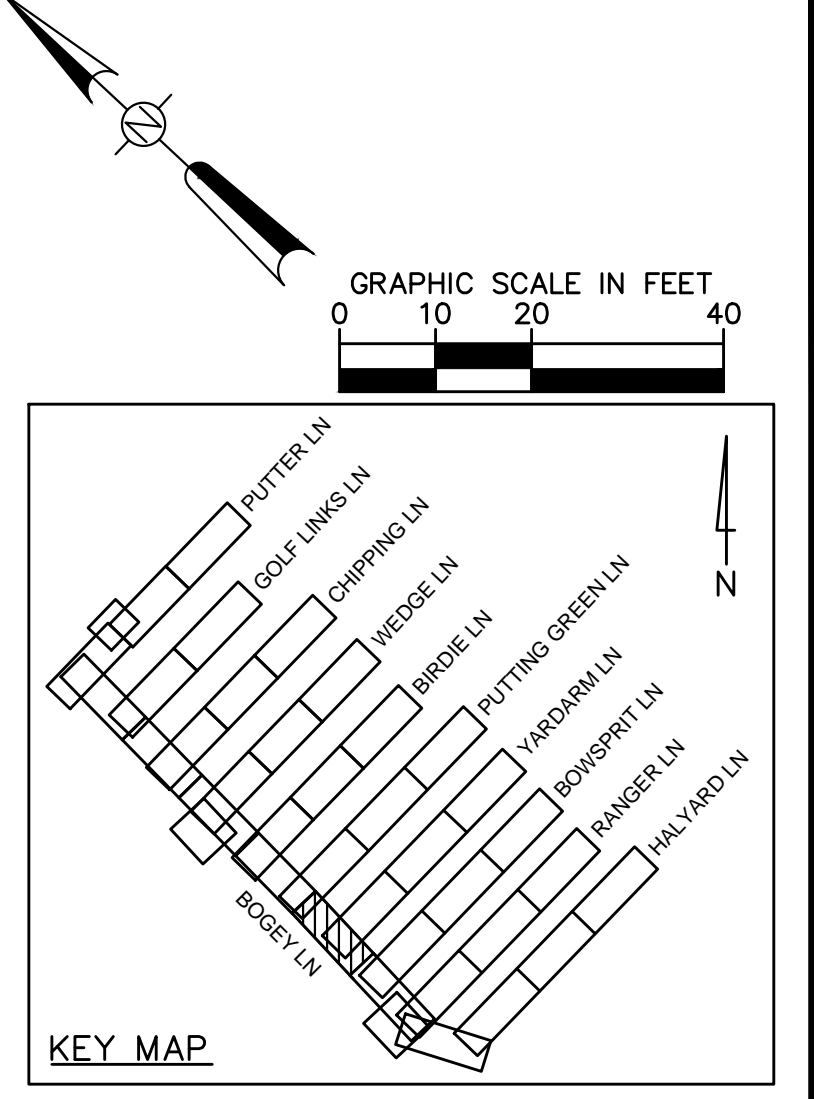
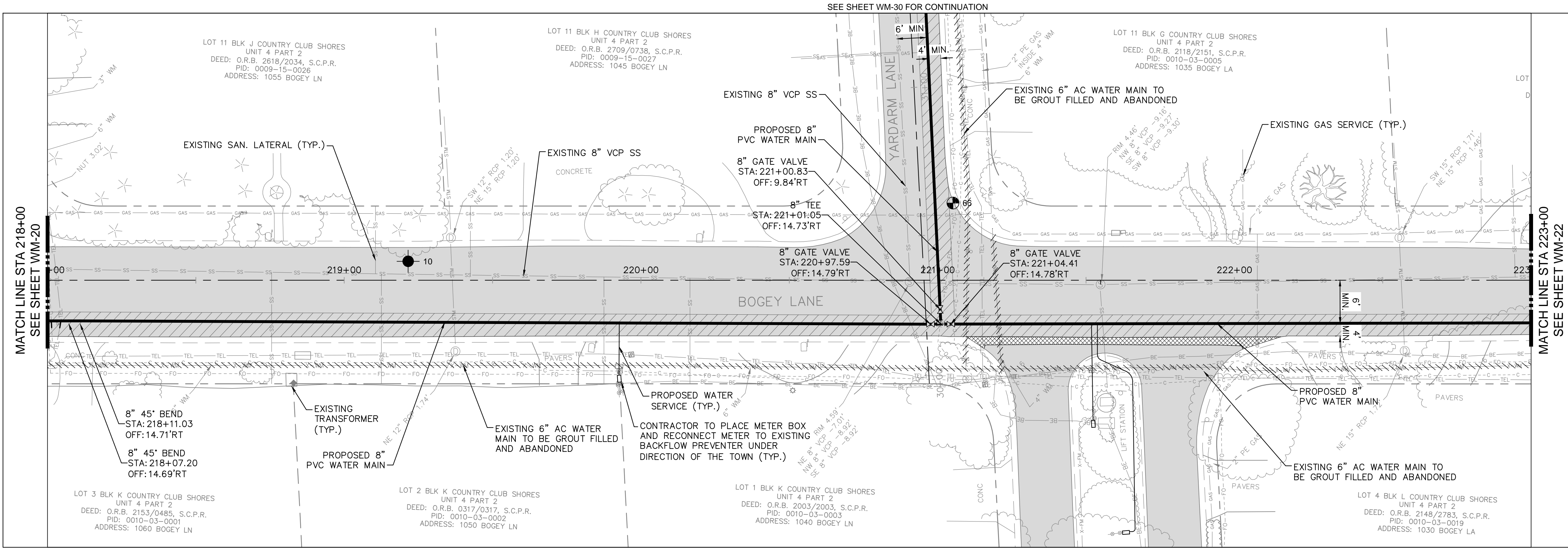
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
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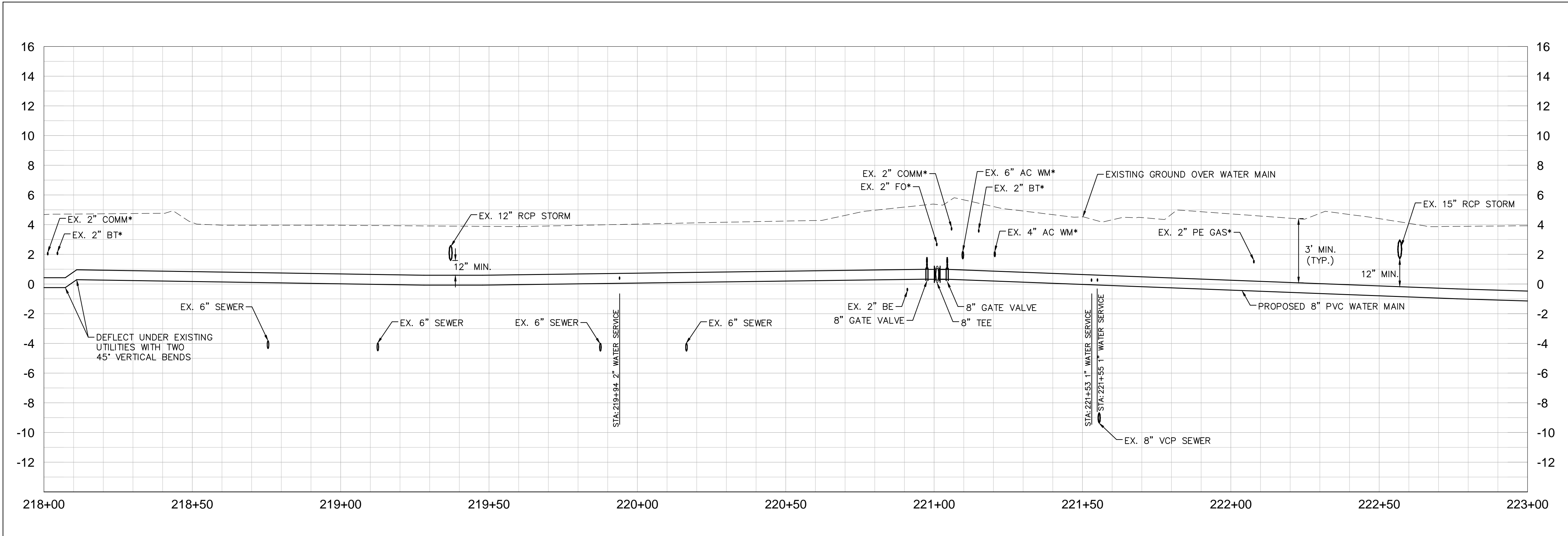
PHASE 1
BOGEY LANE
[213+50 - 218+00]

SHEET NUMBER
WM-20

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Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY LMC
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

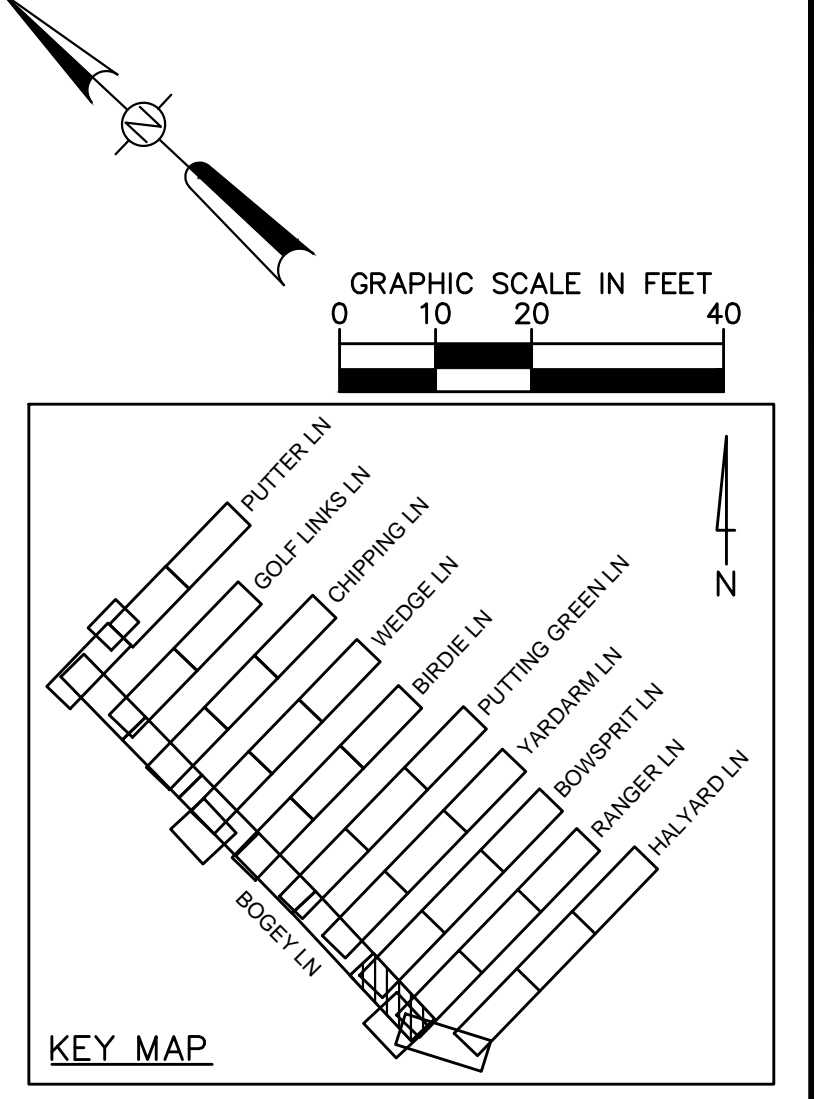
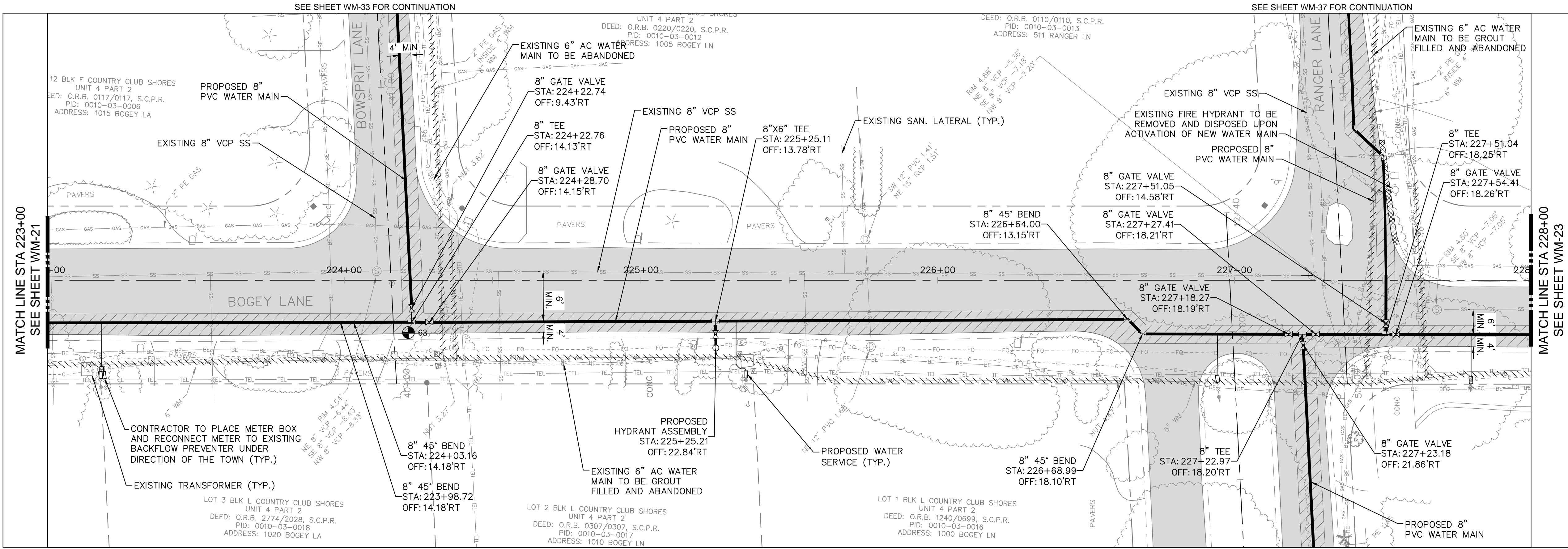
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 2
BOGEY LANE
[218+00 - 223+00]

SHEET NUMBER
WM-21

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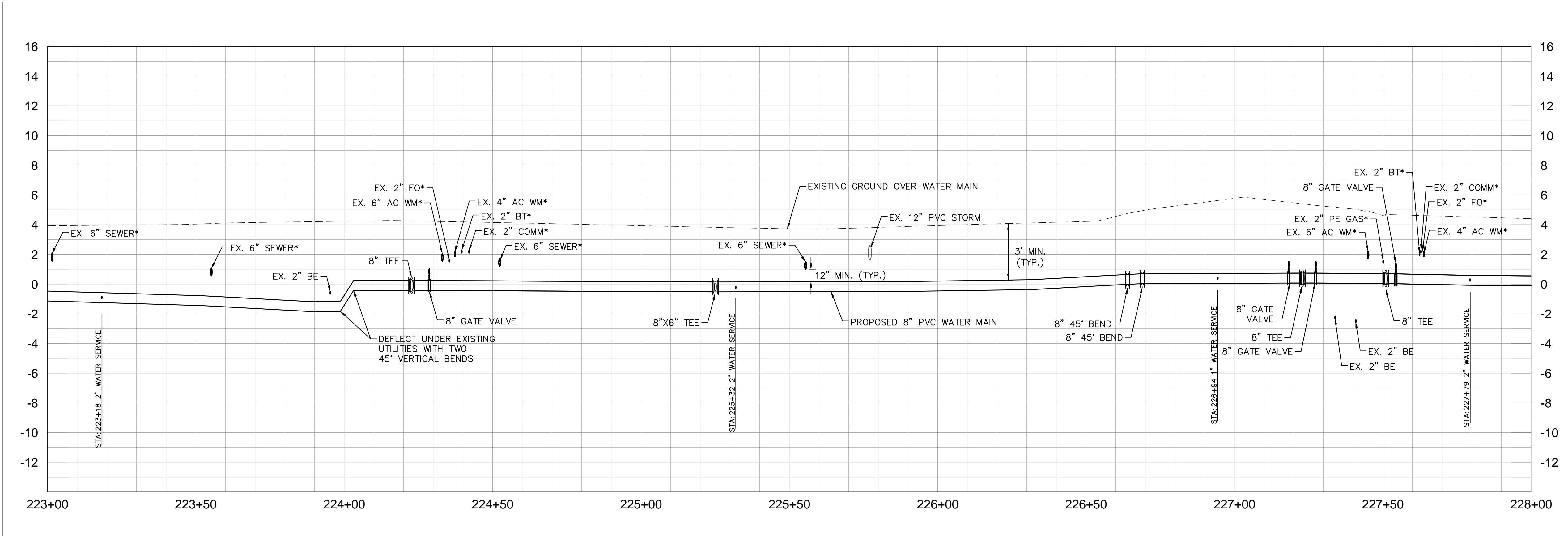


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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY LMC
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

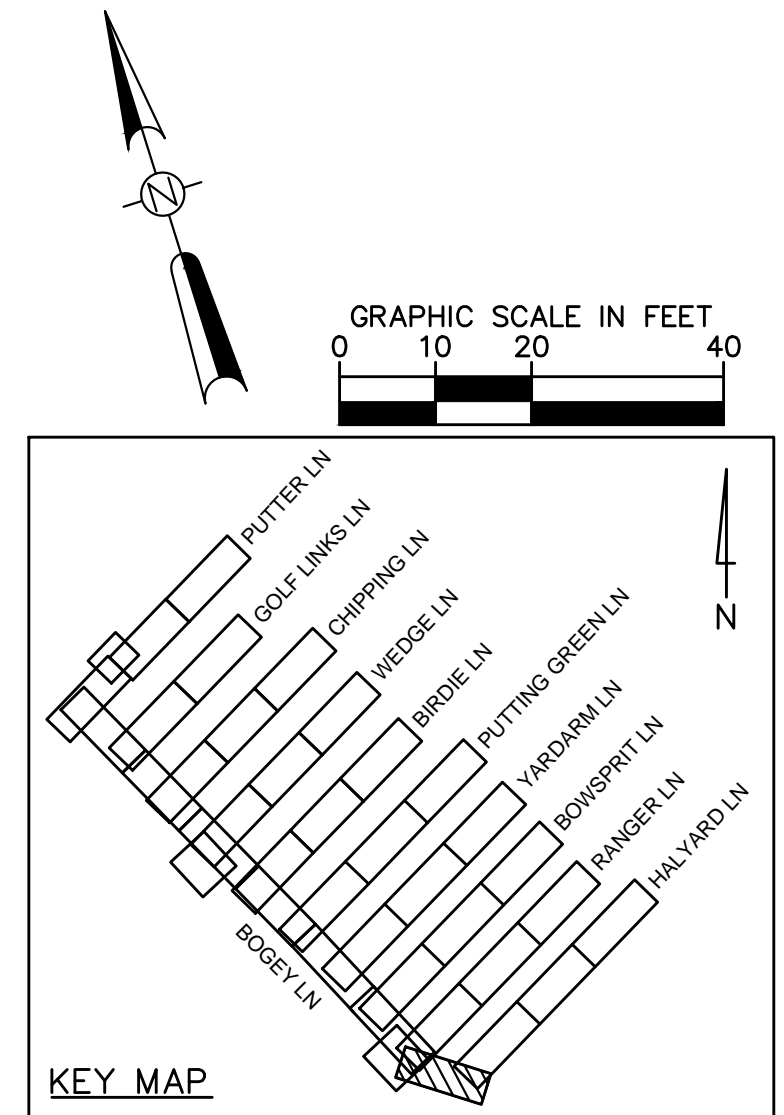
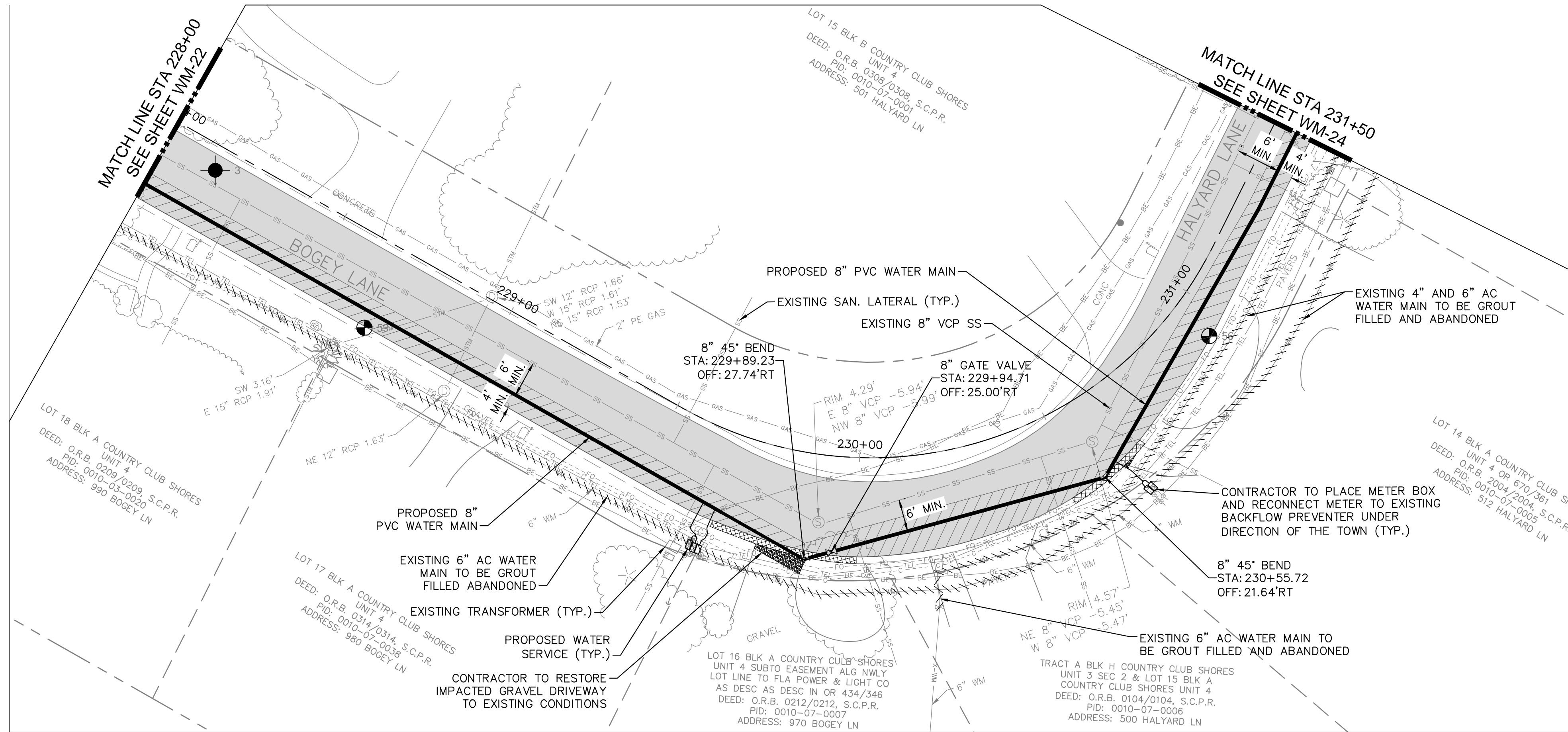
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 2
BOGEY LANE
[223+00 - 228+00]

SHEET NUMBER
WM-22

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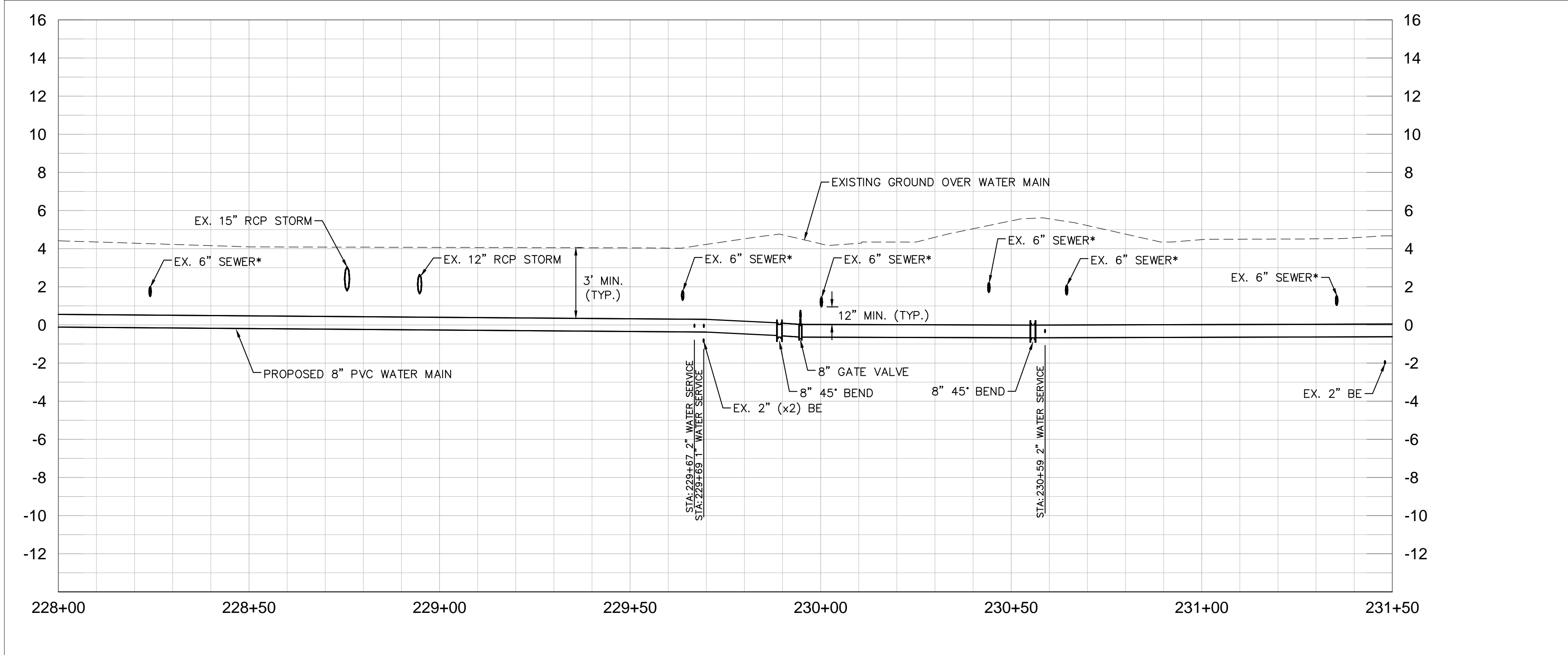
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Kimley»Horn

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 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
 DATE 9/26/2022
 SCALE AS SHOWN
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 CHECKED BY AMM

**TOWN OF LONGBOAT KEY
 COUNTRY CLUB SHORES
 AC WATER MAIN REPLACEMENT**

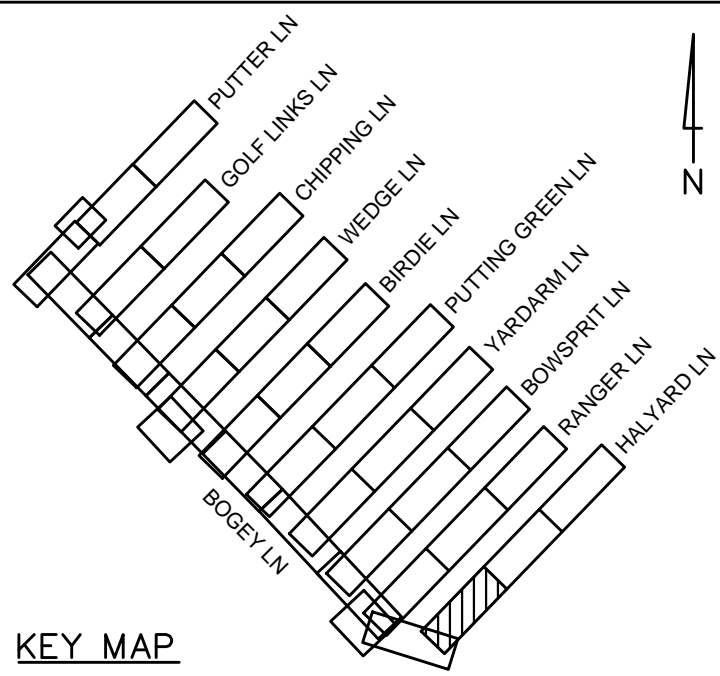
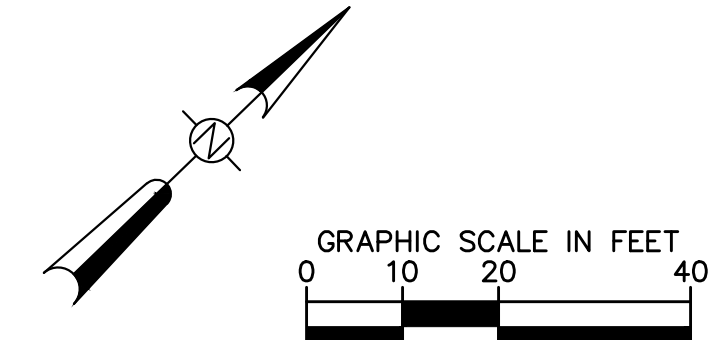
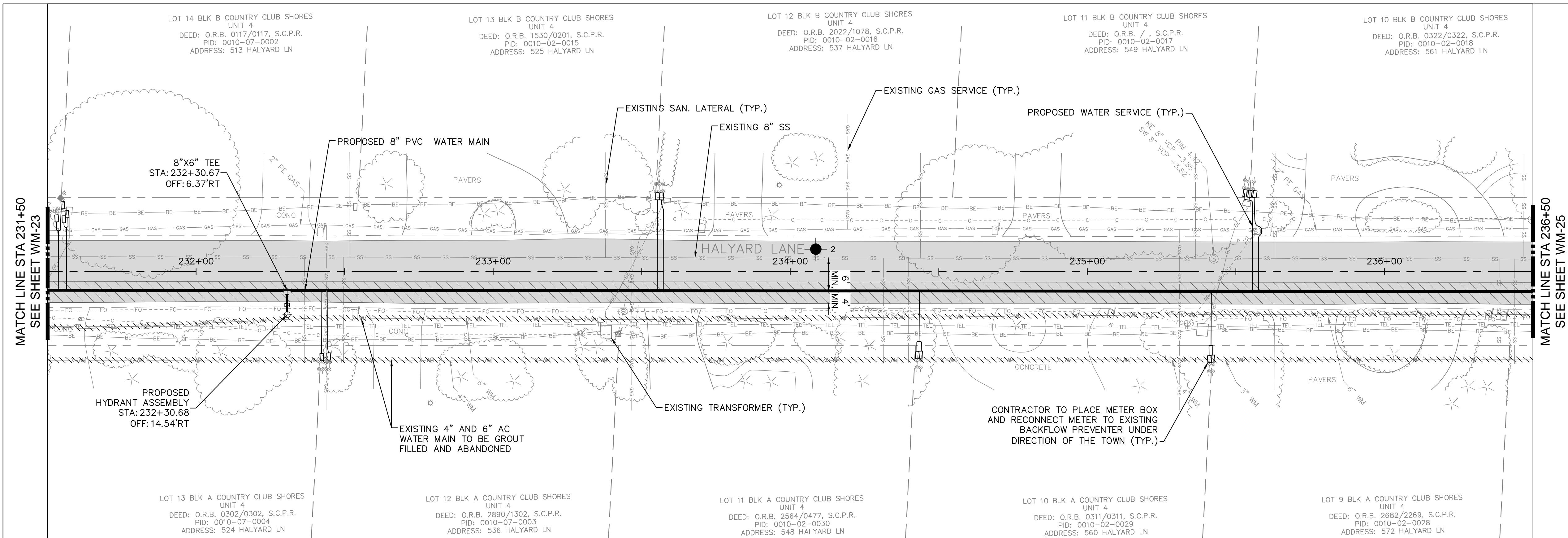
SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

**PHASE 2
 BOGEY LANE
 [228+00 - 231+50]**

SHEET NUMBER
WM-23

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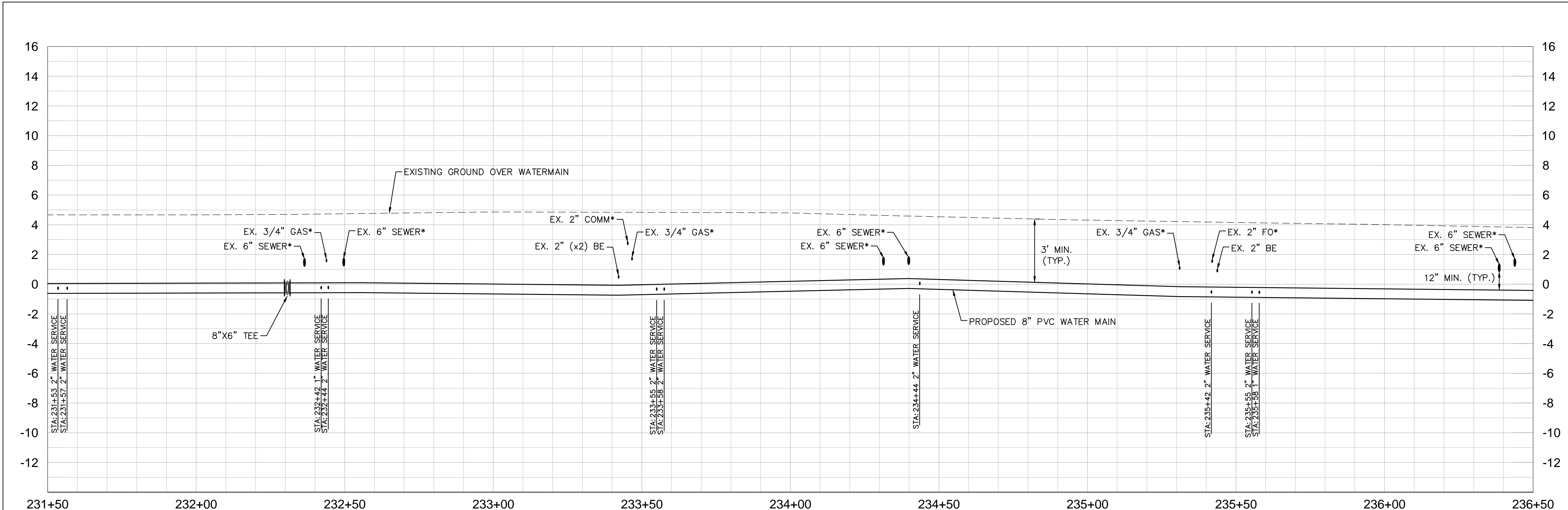
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1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
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**TOWN OF LONGBOAT KEY
 COUNTRY CLUB SHORES
 AC WATER MAIN REPLACEMENT**

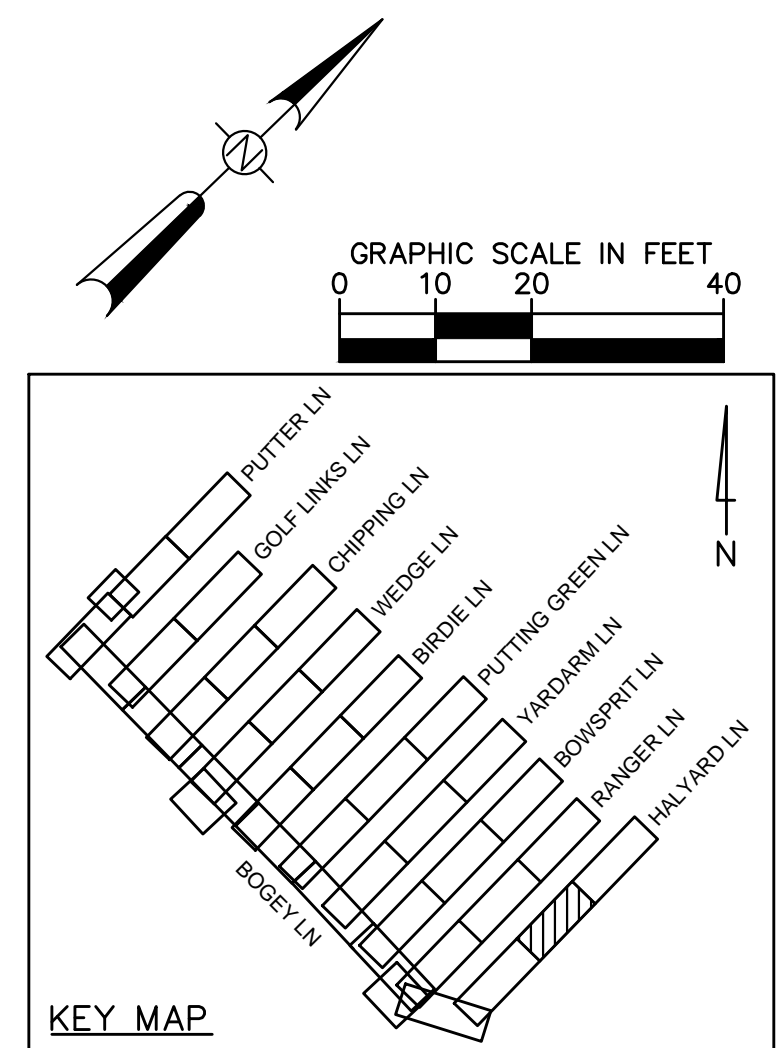
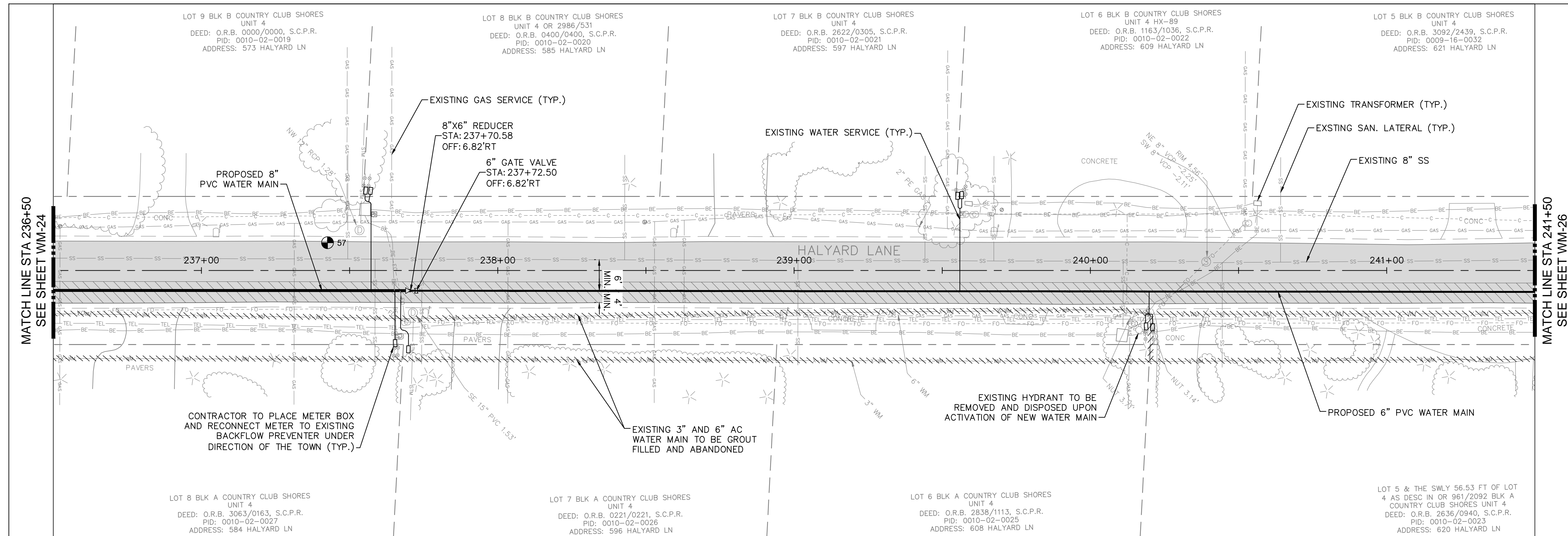
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476

**PHASE 2
 HALYARD LANE
 [231+50 - 236+50]**

SHEET NUMBER
WM-24

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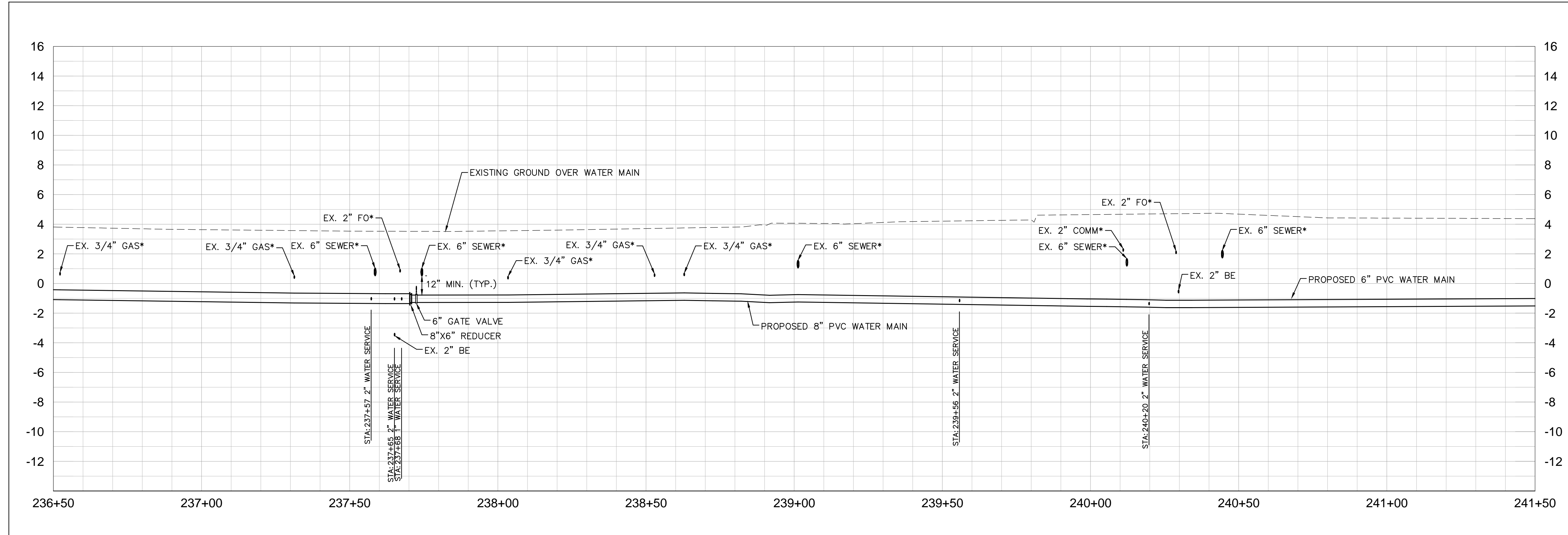
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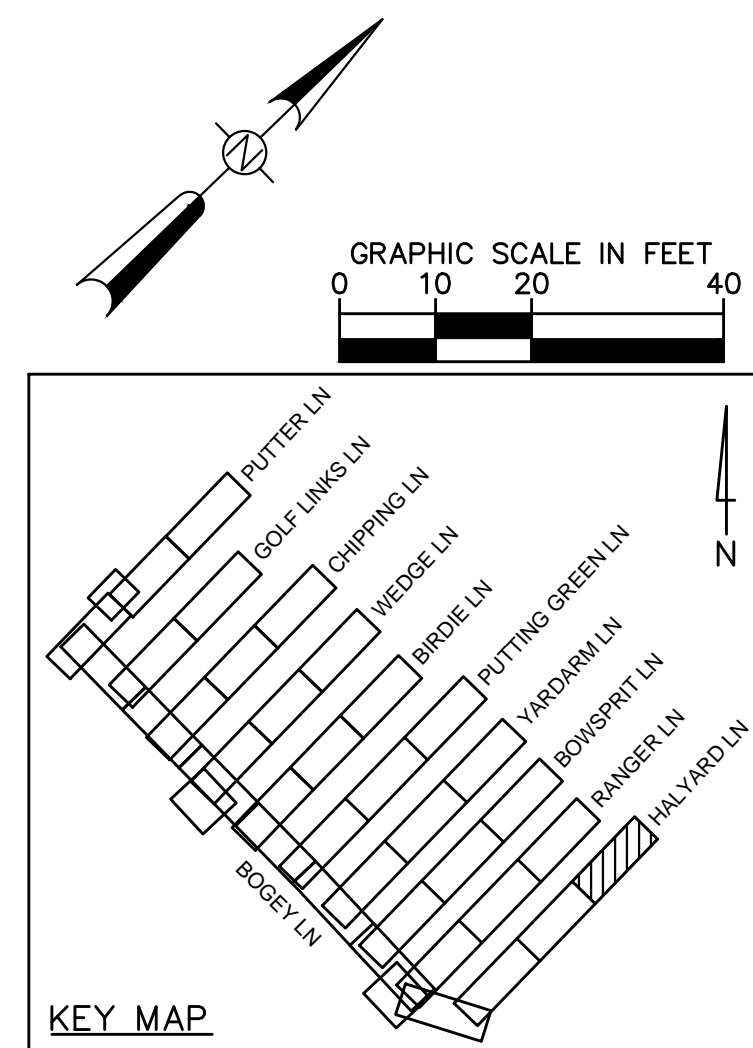
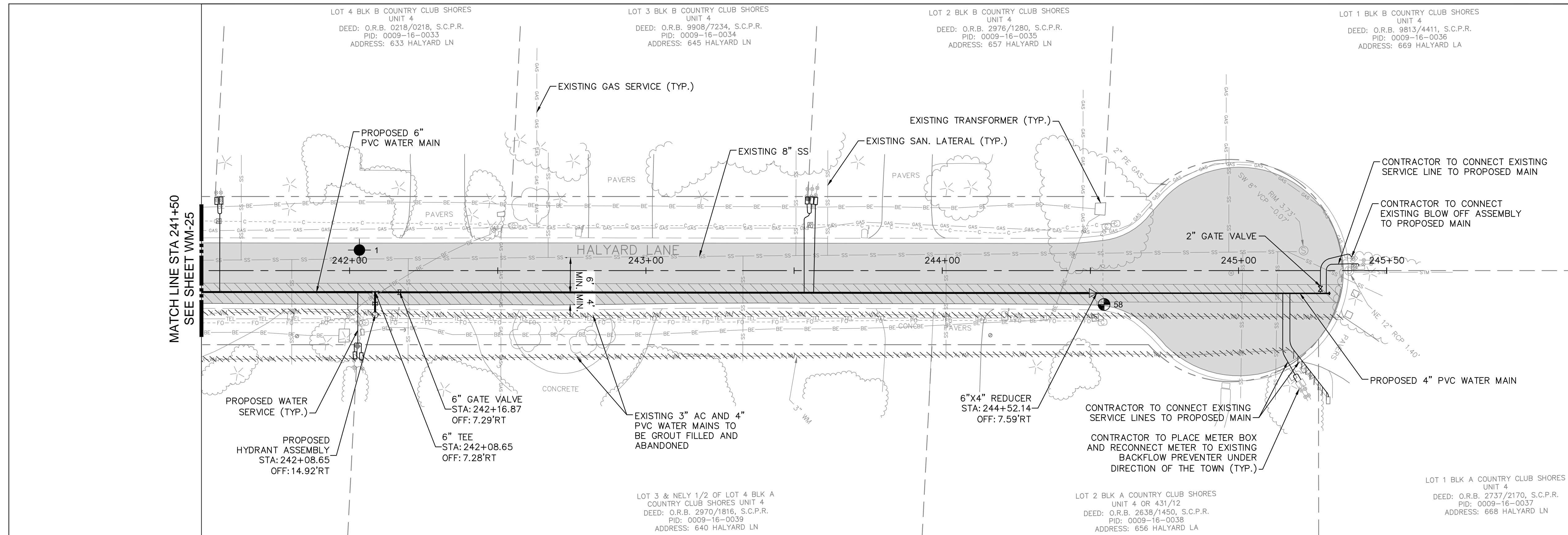
TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT
SARASOTA COUNTY

LICENSED PROFESSIONAL
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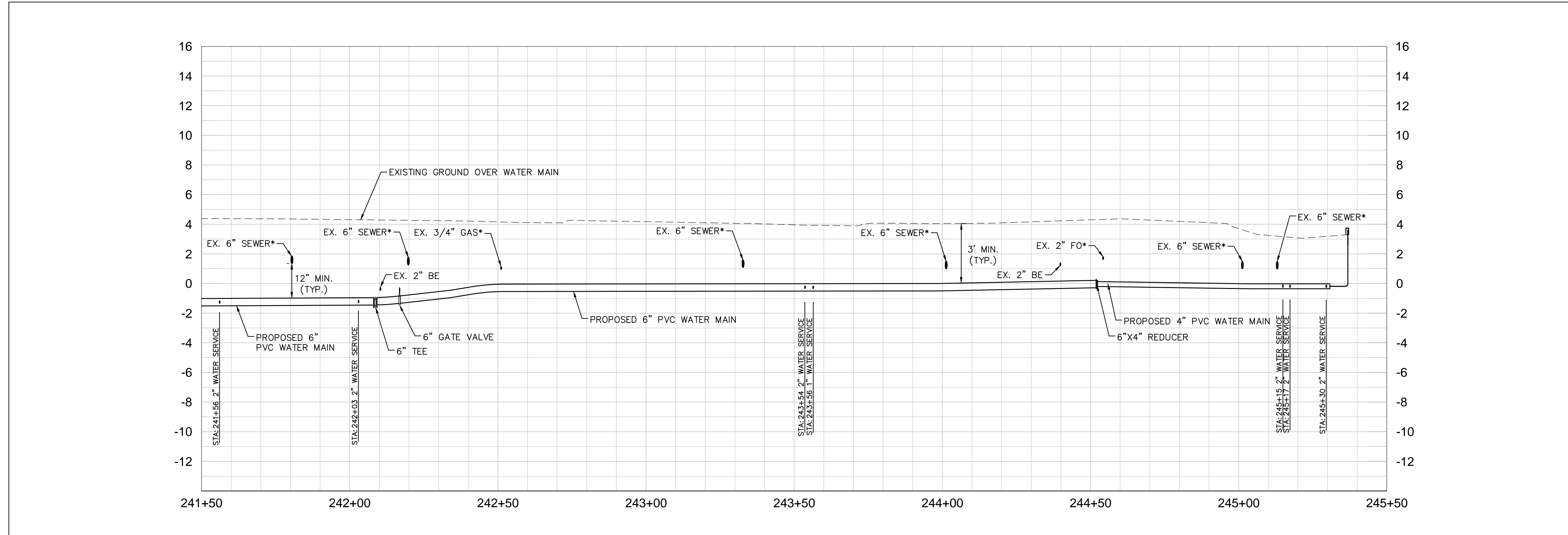
PHASE 2
HALYARD LANE
[236+50 - 241+50]

SHEET NUMBER
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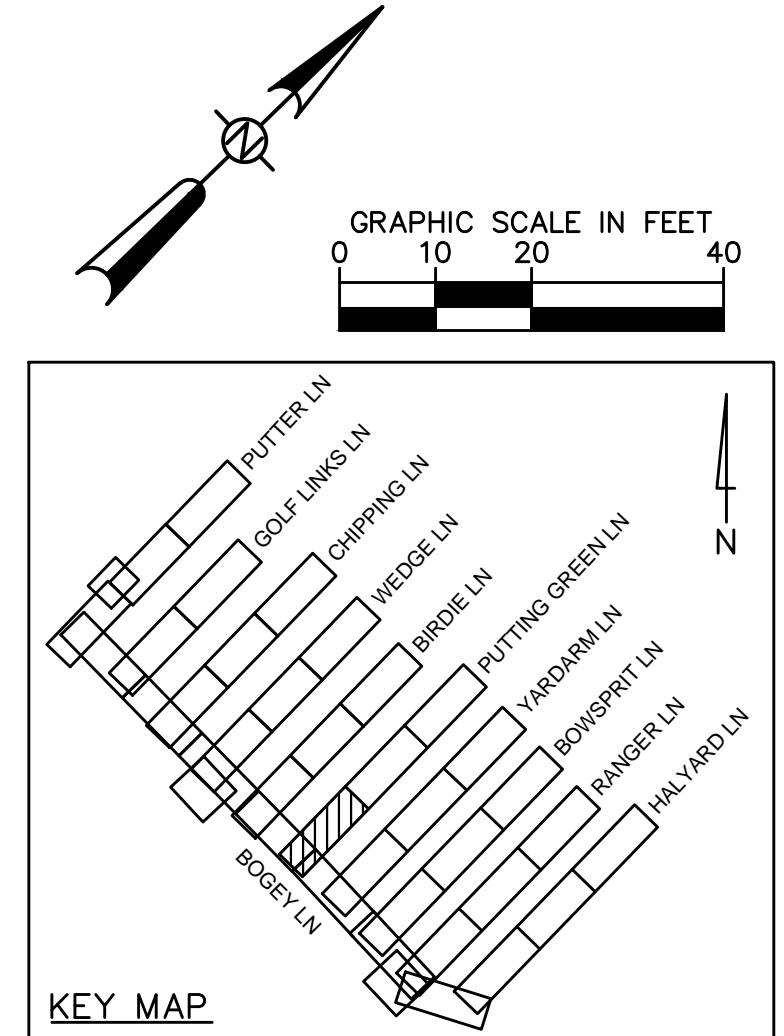
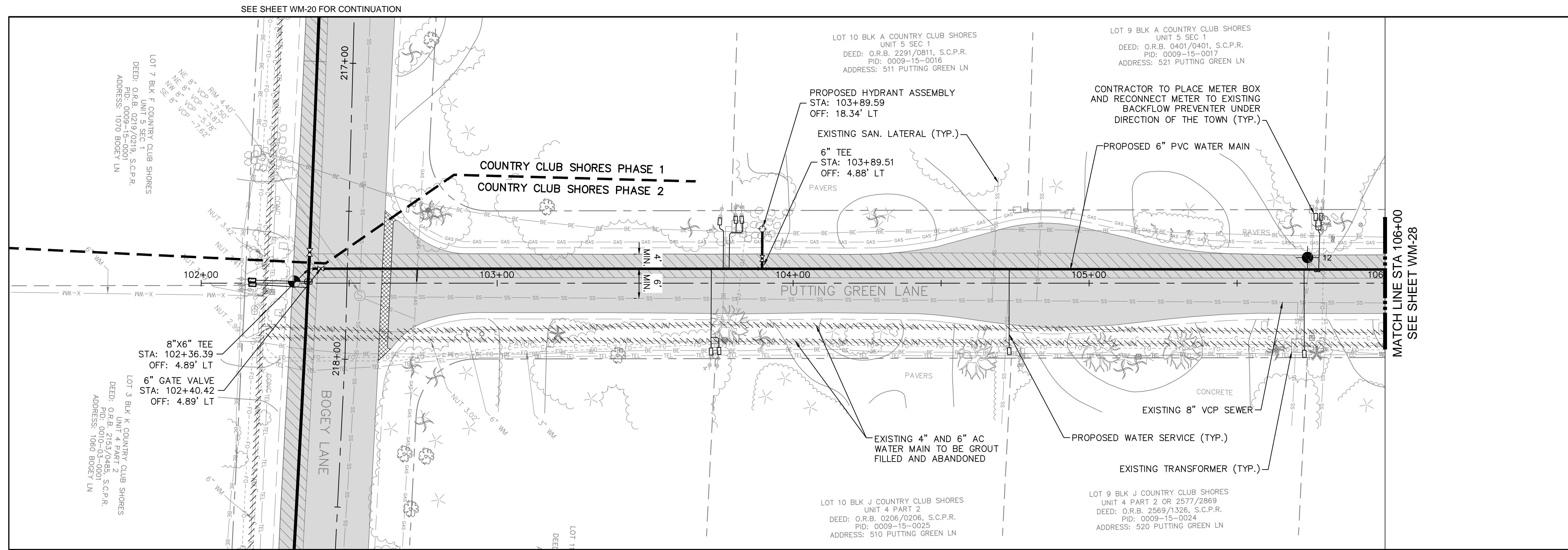
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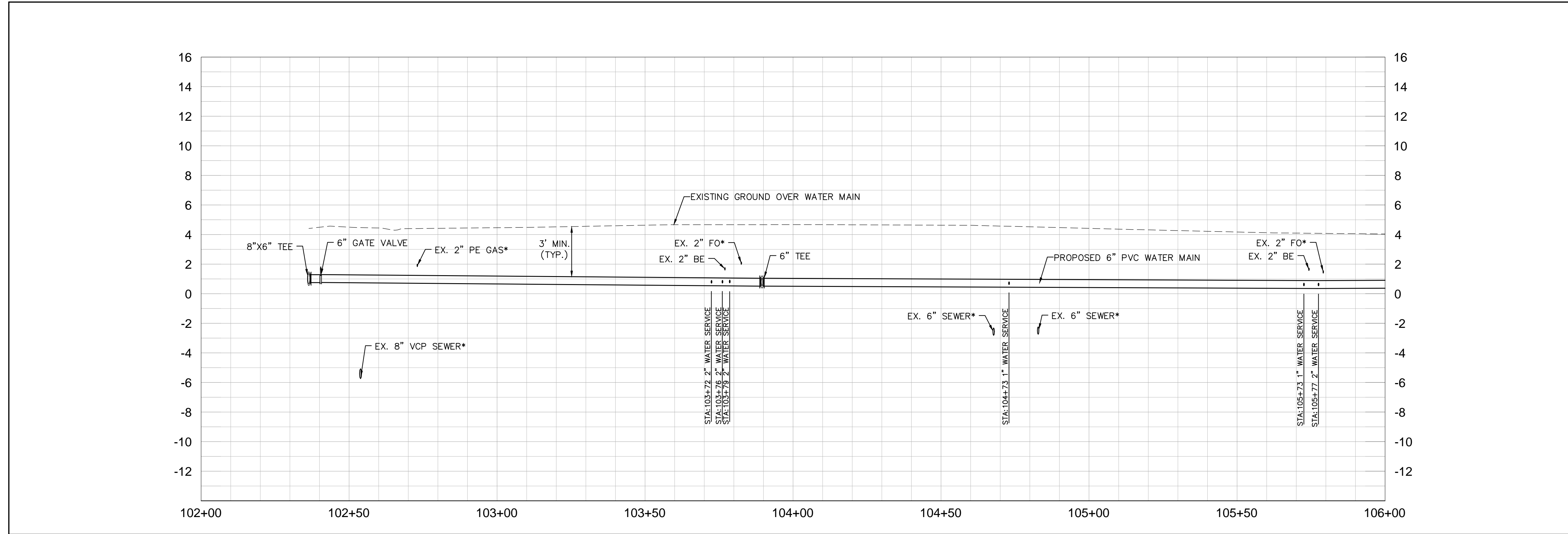
PHASE 2
HALYARD LANE
[241+50 - 245+50]

SHEET NUMBER
WM-26

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KHA PROJECT 148800005
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TOWN OF LONGBOAT KEY
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SARASOTA COUNTY

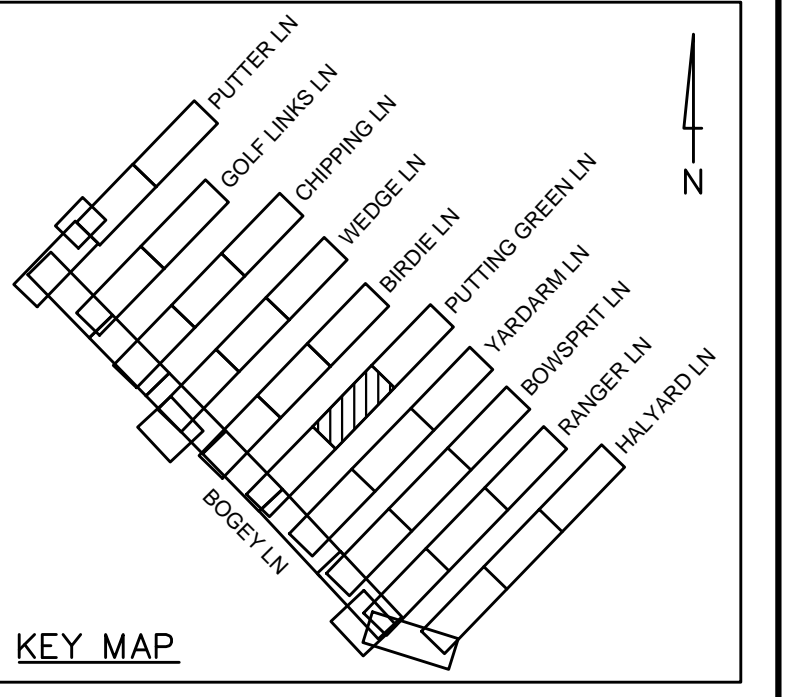
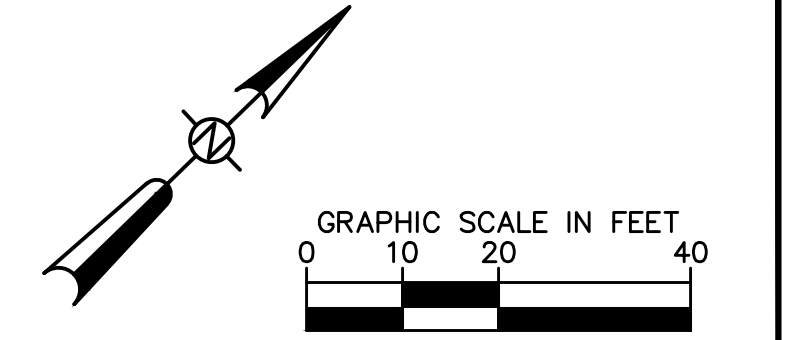
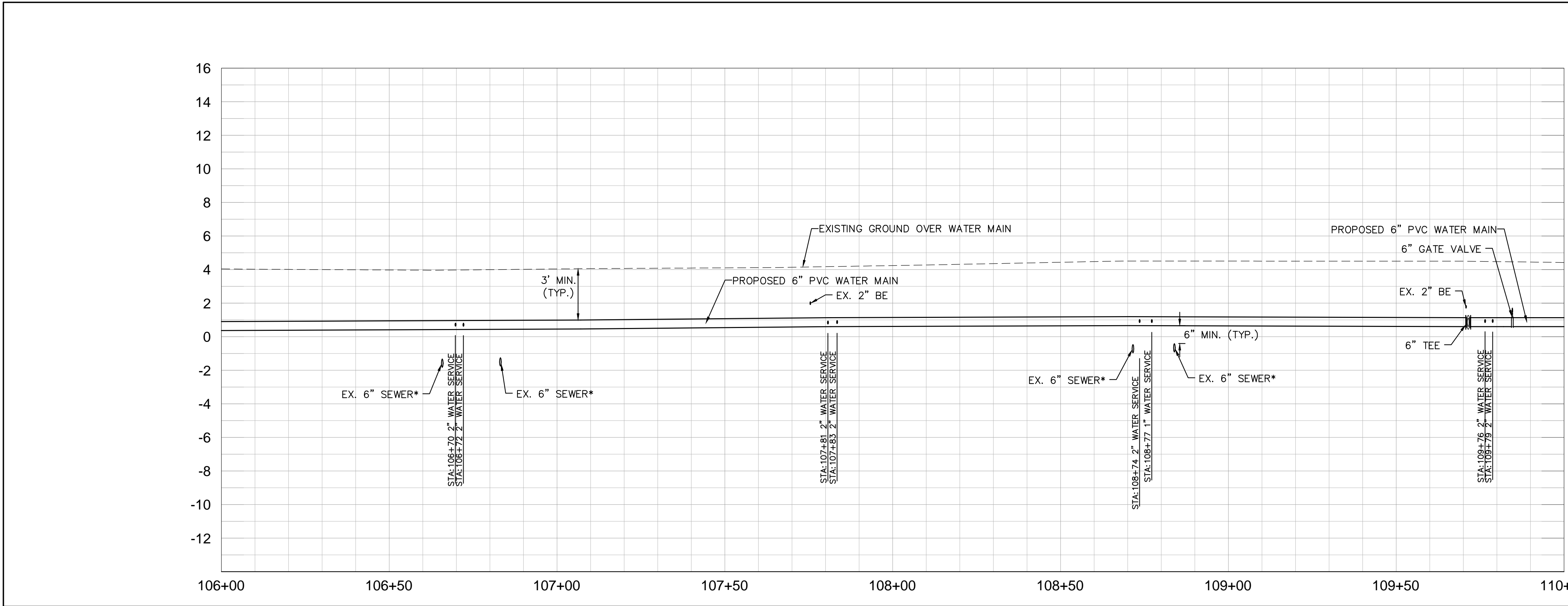
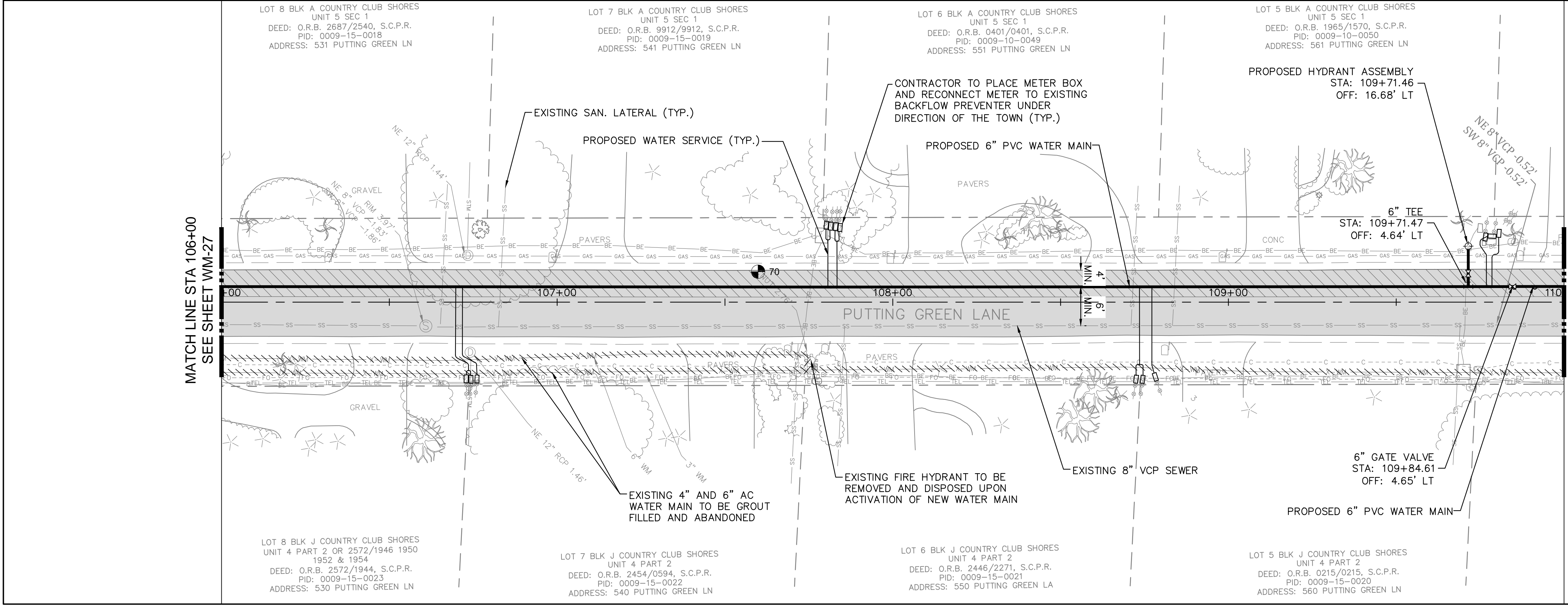
LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 2
PUTTING GREEN LANE
[102+00 - 106+00]

SHEET NUMBER
WM-27



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No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
 DATE 9/26/2022
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY LMC
 CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

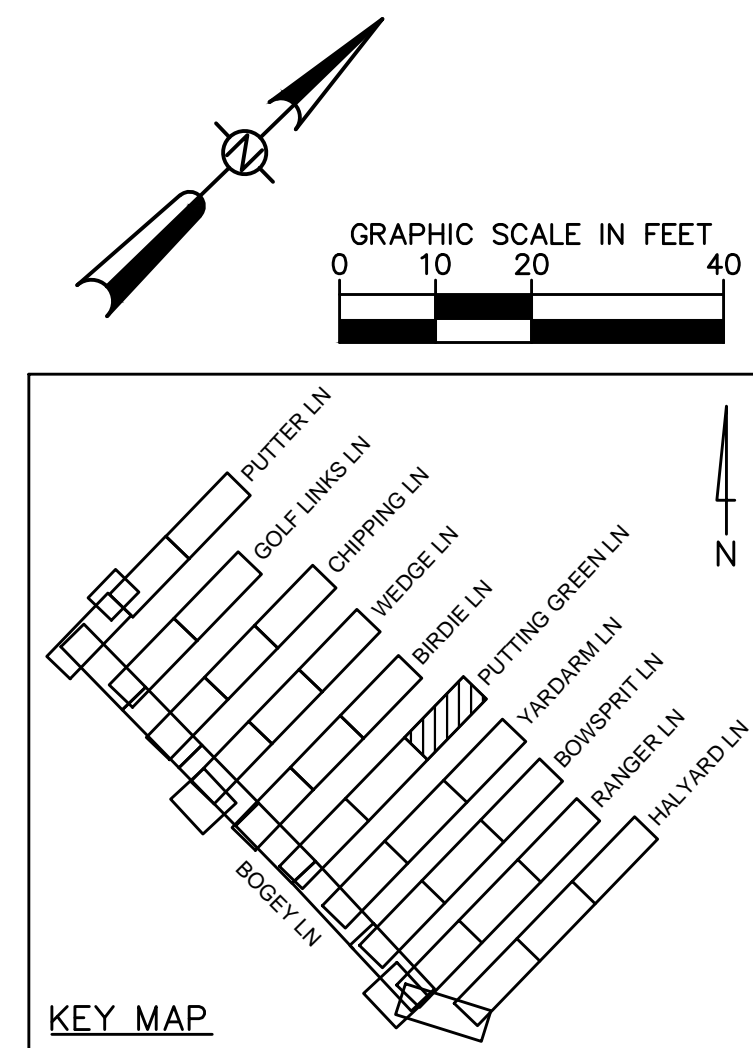
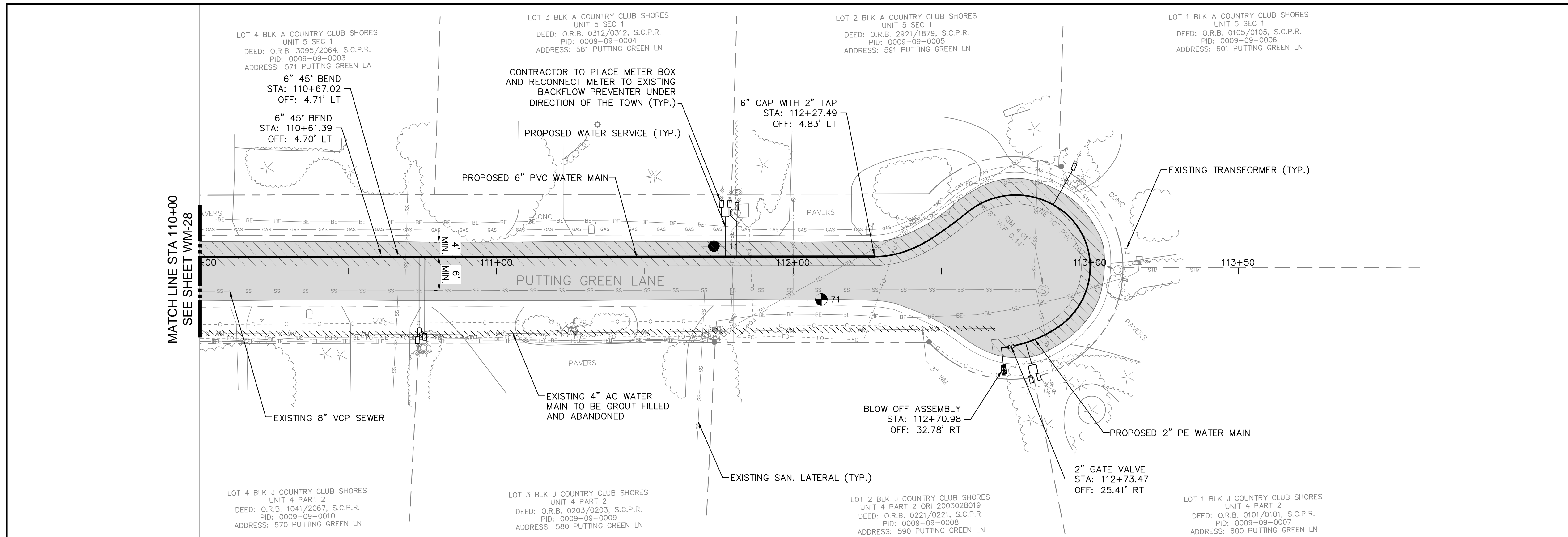
SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PHASE 2
PUTTING GREEN LANE
[106+00 - 110+00]

SHEET NUMBER
WM-28

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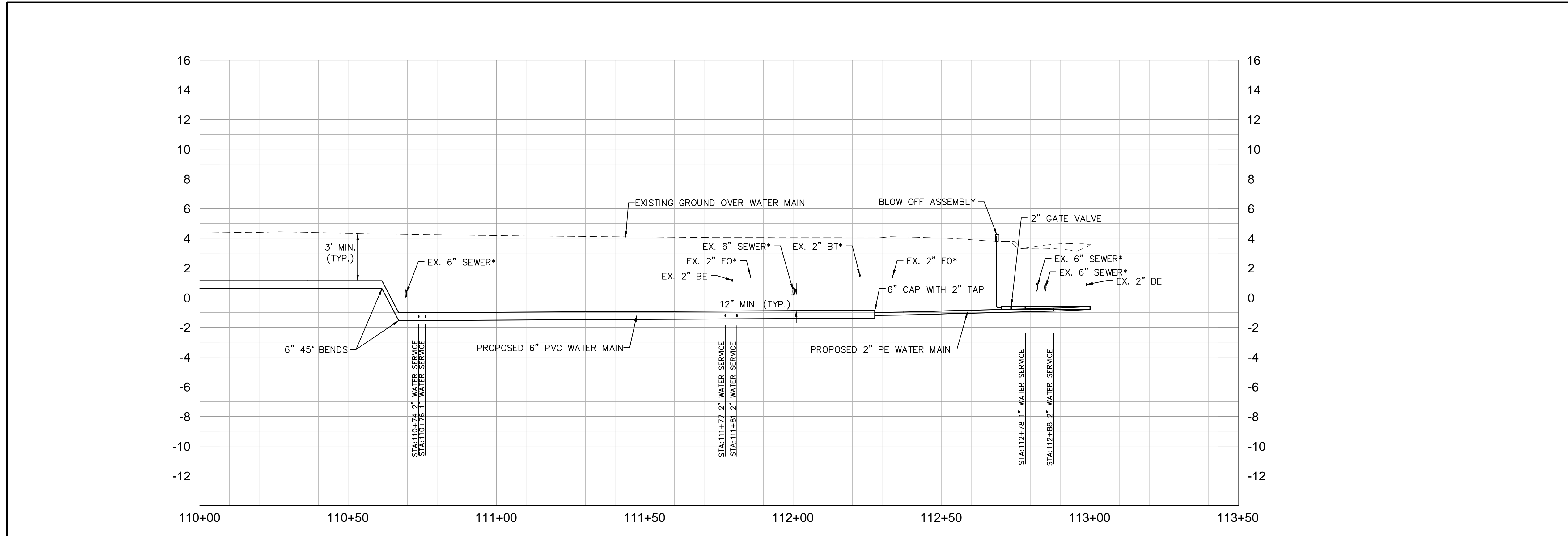
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ASPHALT REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE DRIVE/WALK/CURB RESTORATION
 - PROP. GRAVEL DRIVEWAY RESTORATION

- NOTES:**
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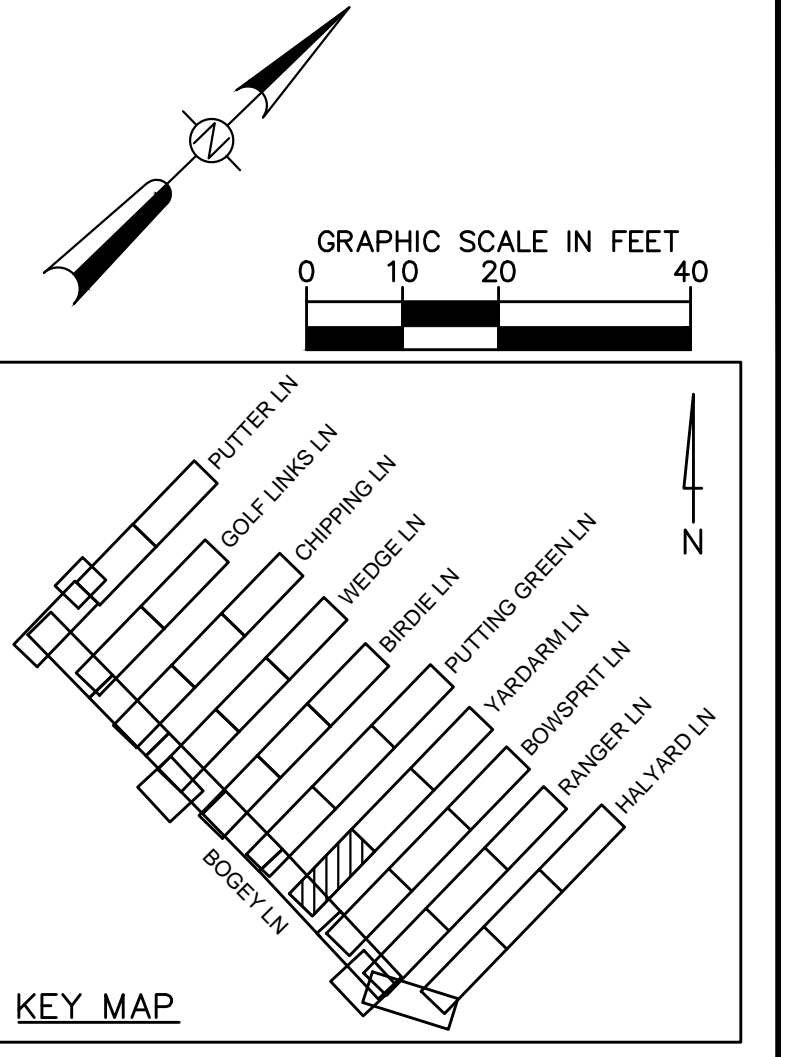
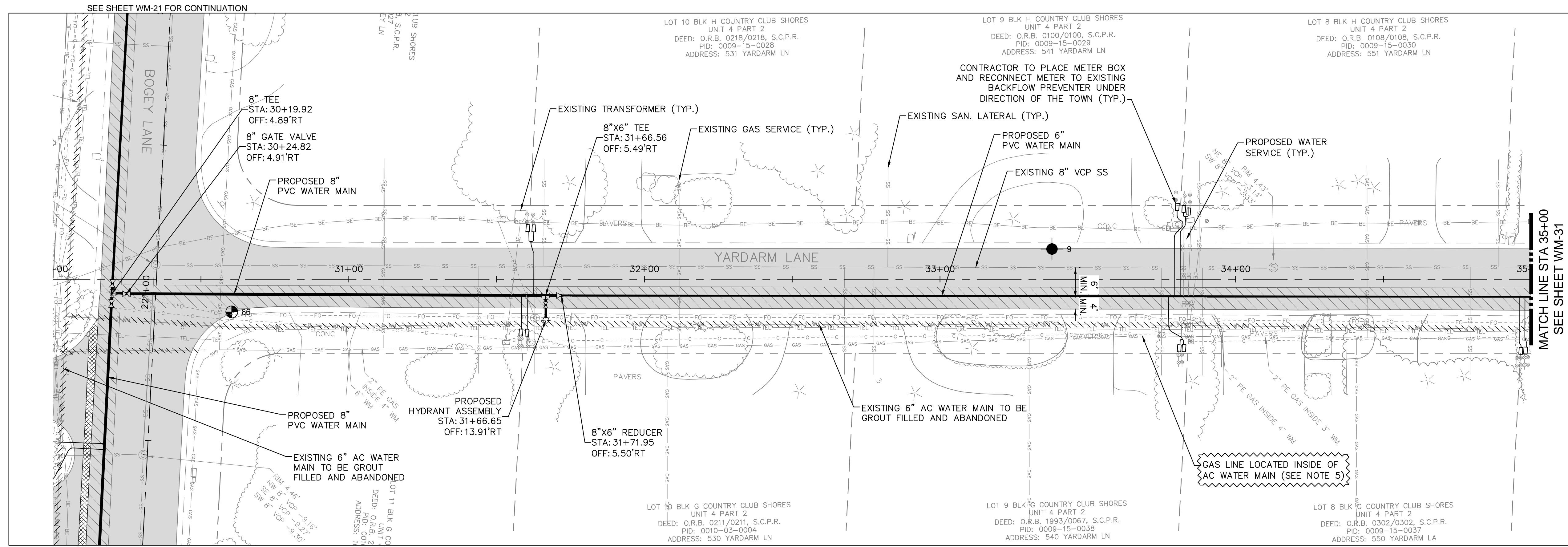
SARASOTA COUNTY

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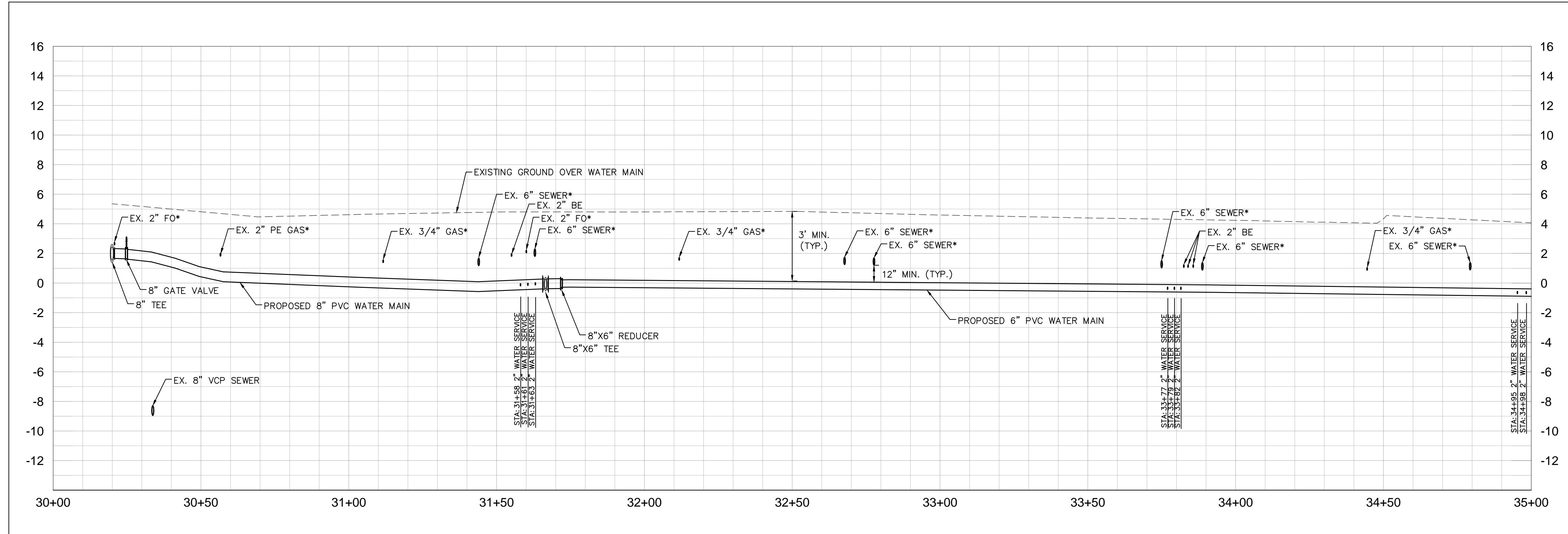
PHASE 2
PUTTING GREEN LANE
[110+00 - 113+50]

SHEET NUMBER
WM-29

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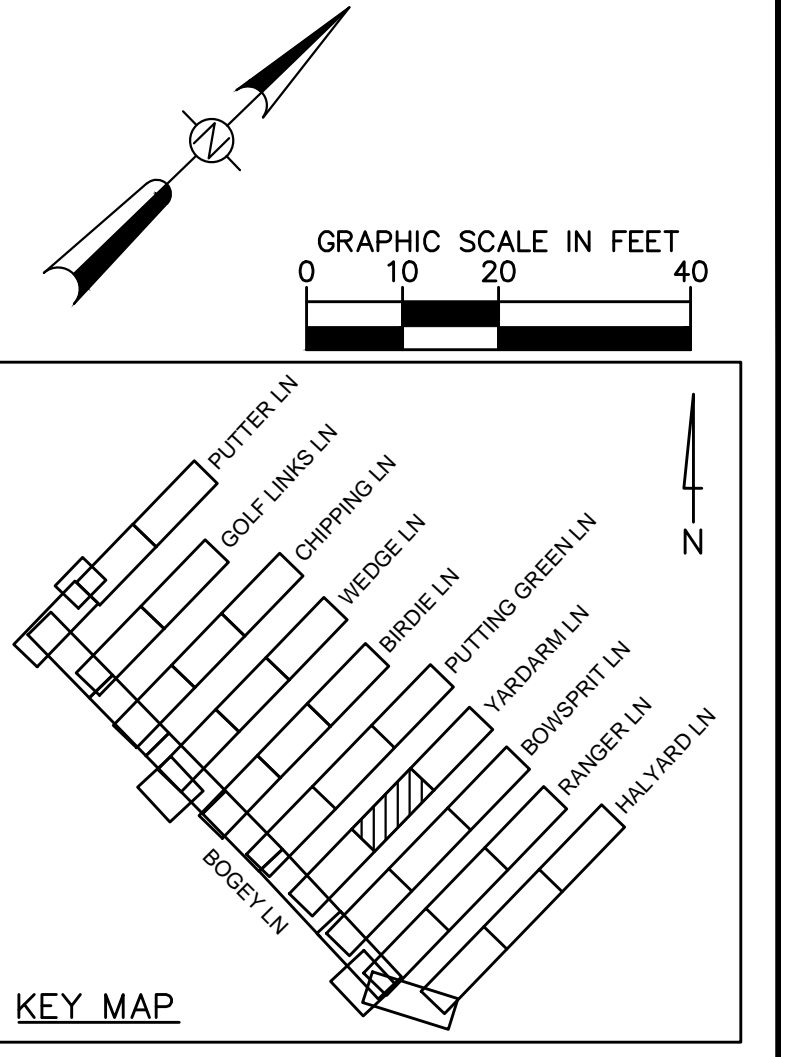
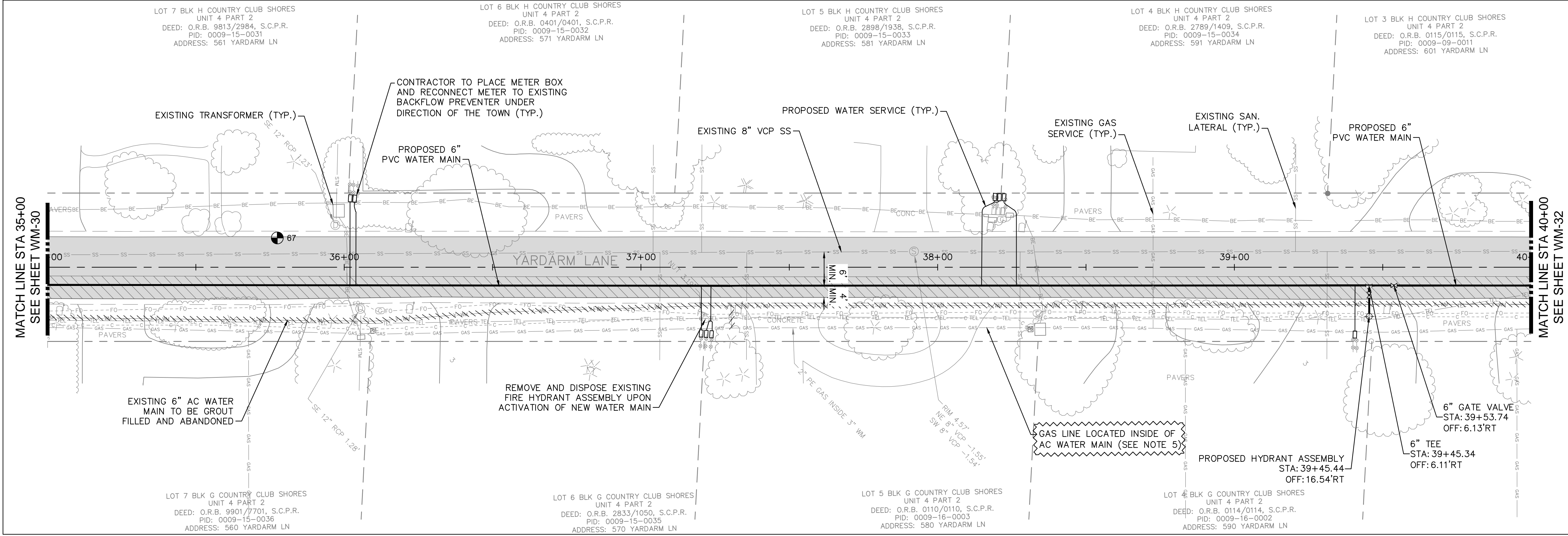
SARASOTA COUNTY

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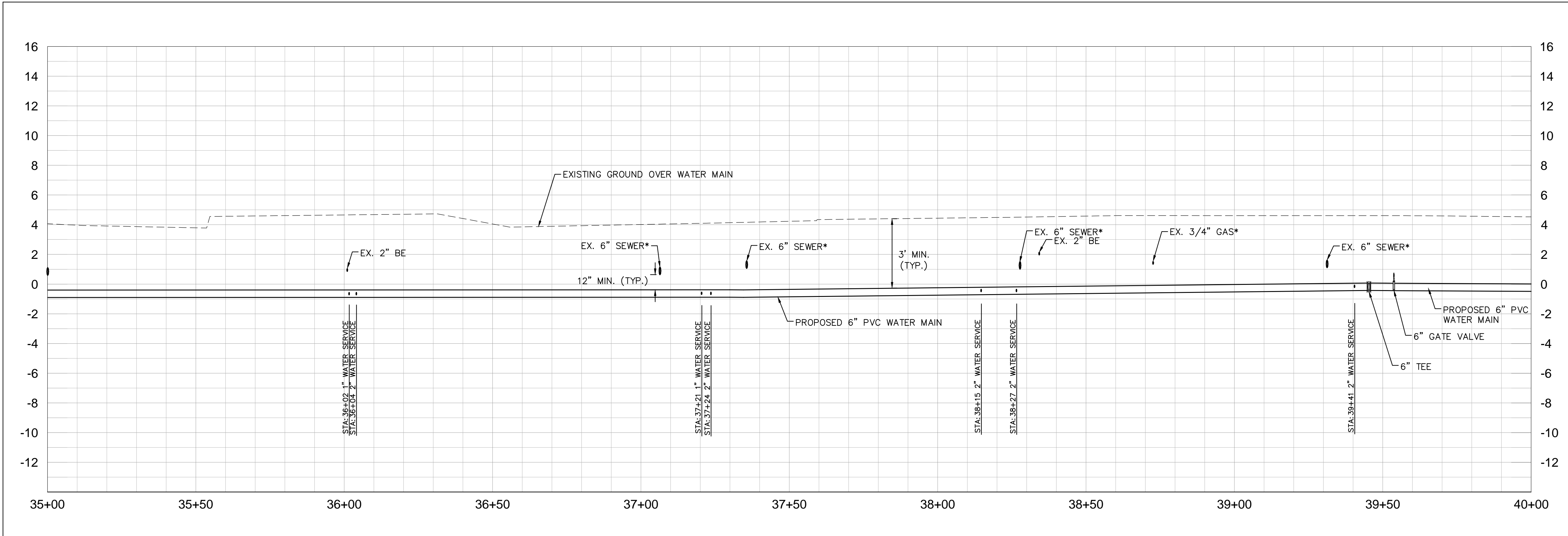
PHASE 2
YARDARM LANE
[30+00 - 35+00]

SHEET NUMBER
WM-30

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TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

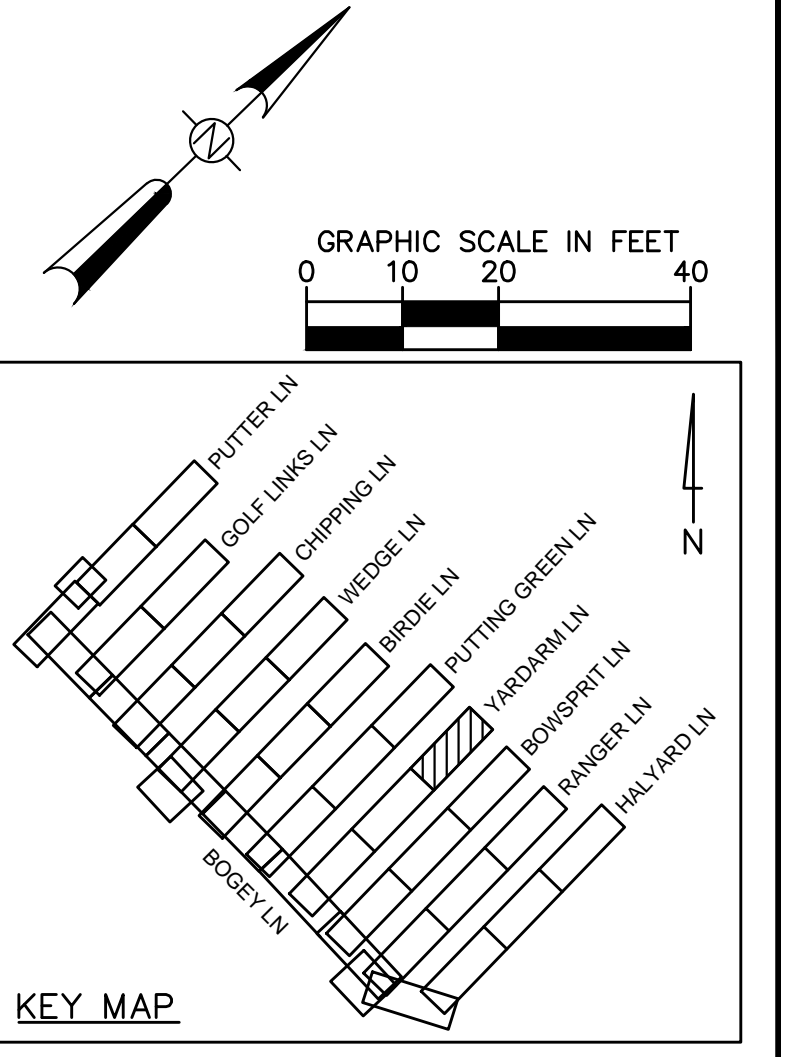
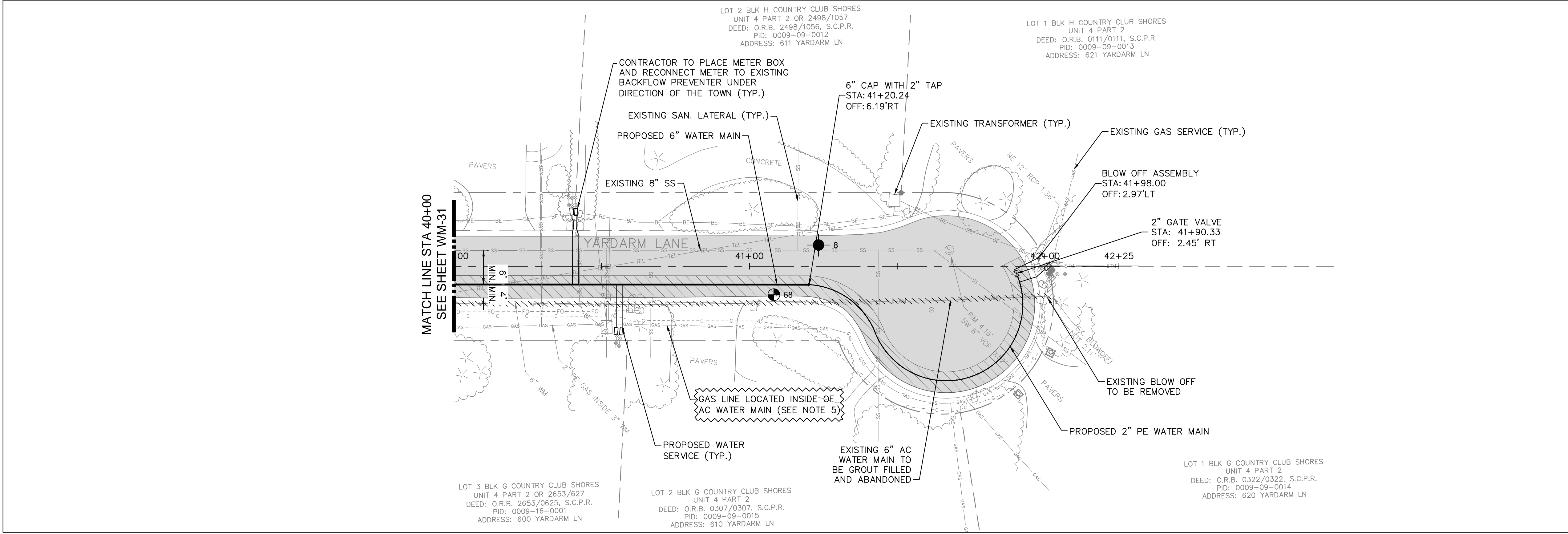
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476

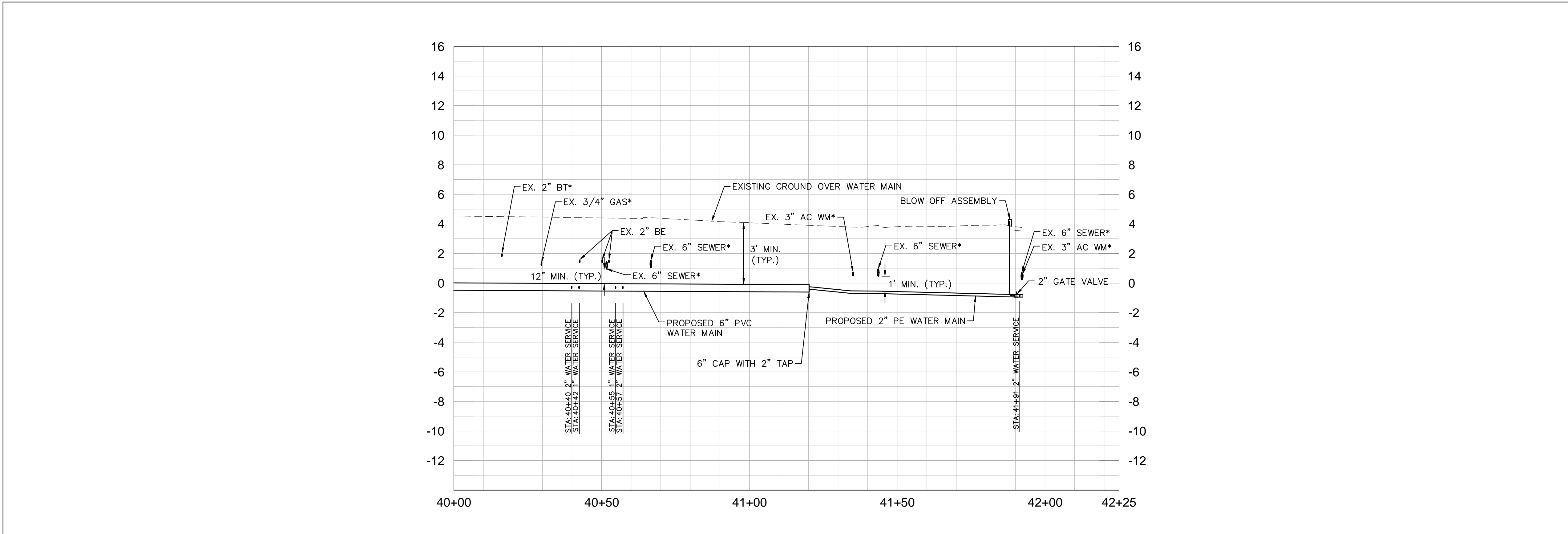
PHASE 2
YARDARM LANE
[35+00 - 40+00]

SHEET NUMBER
WM-31

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TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

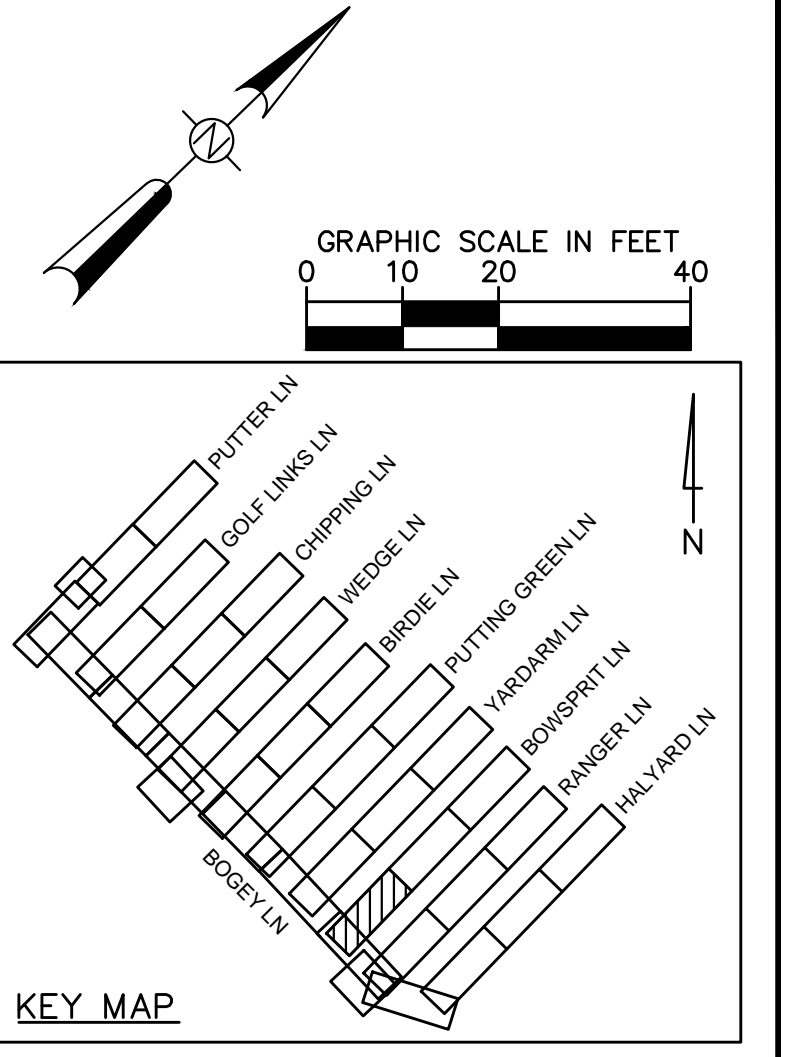
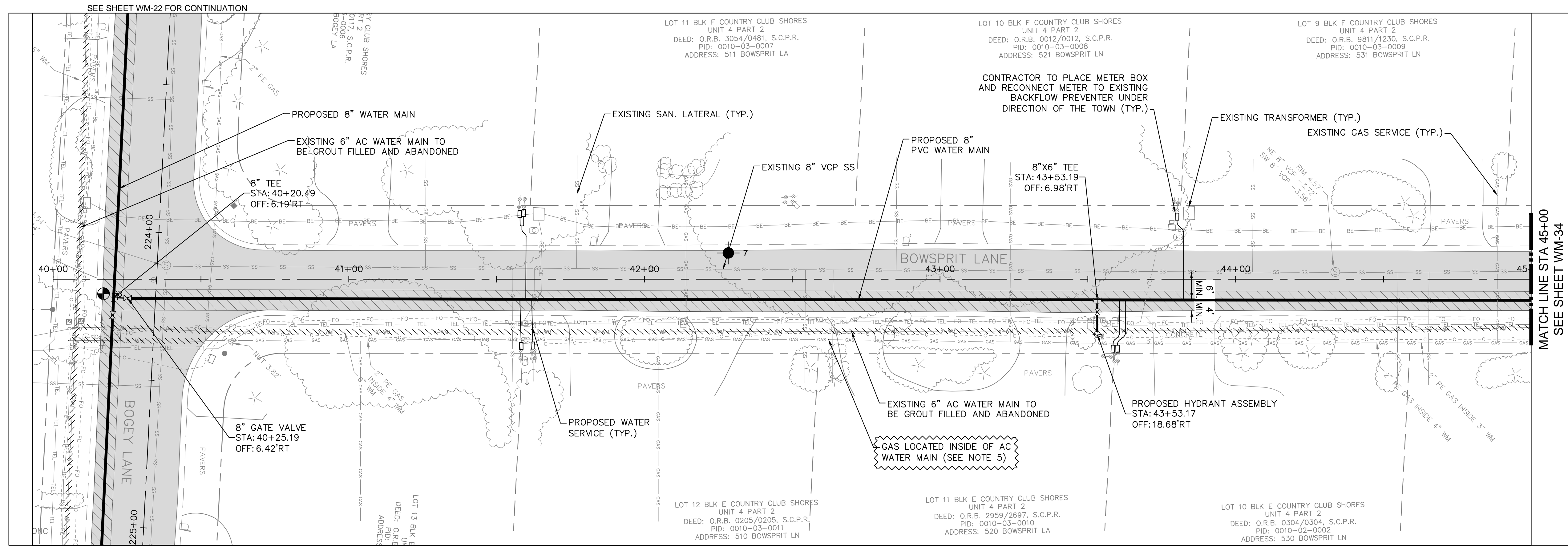
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66476

PHASE 2
YARDARM LANE
[40+00 - 42+25]

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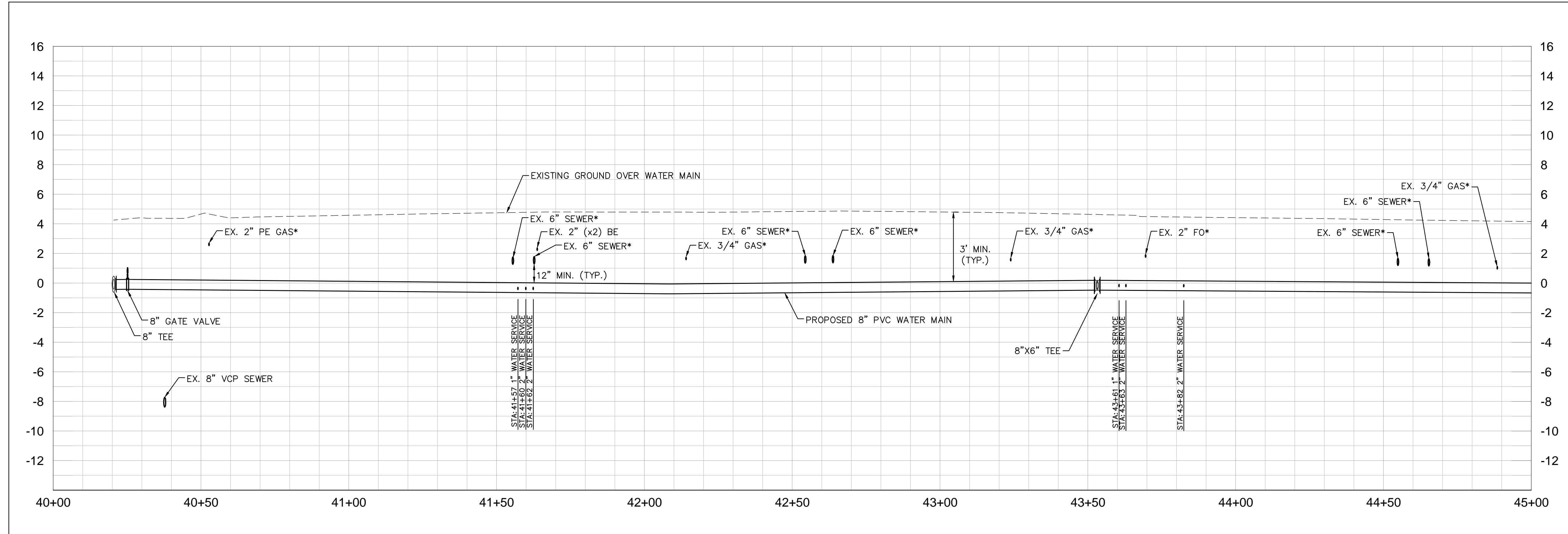
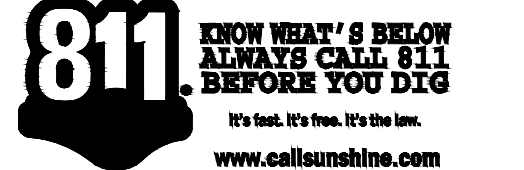
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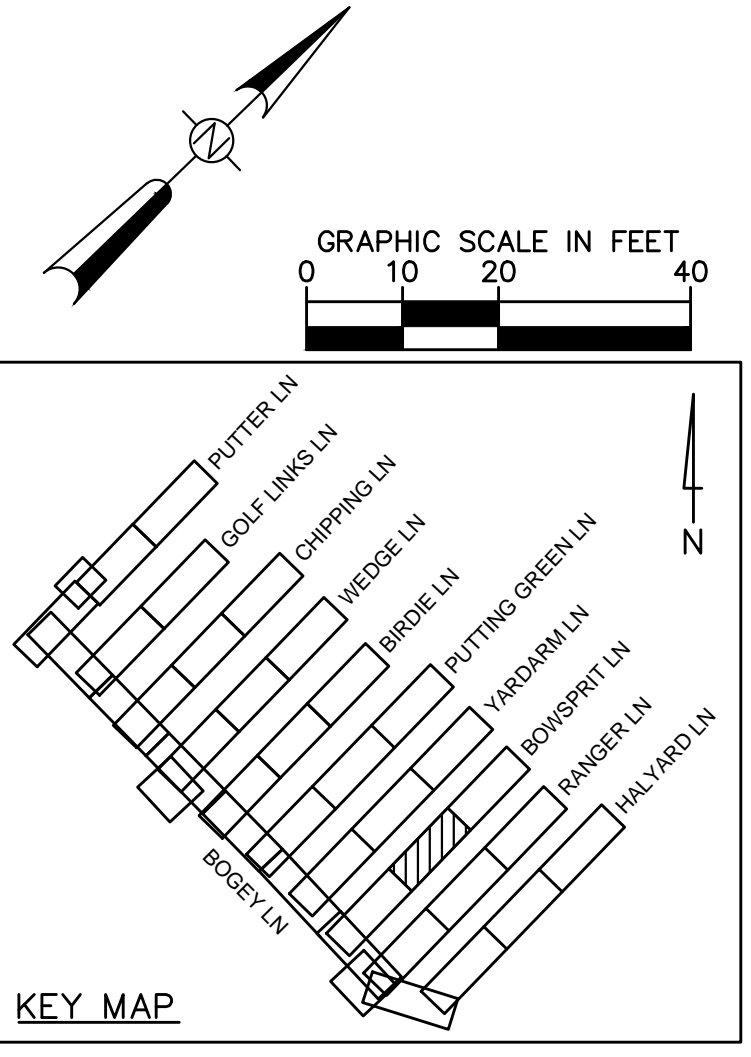
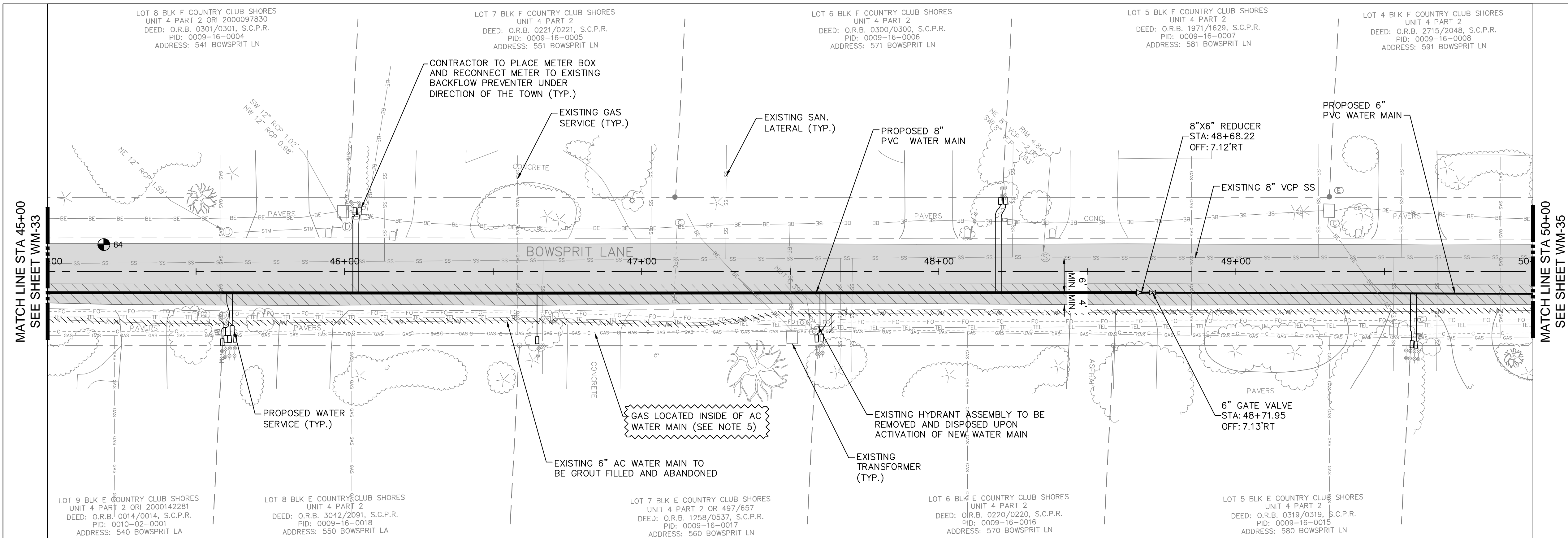
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 2
BOWSPRIT LANE
[40+00 - 45+00]

SHEET NUMBER
WM-33

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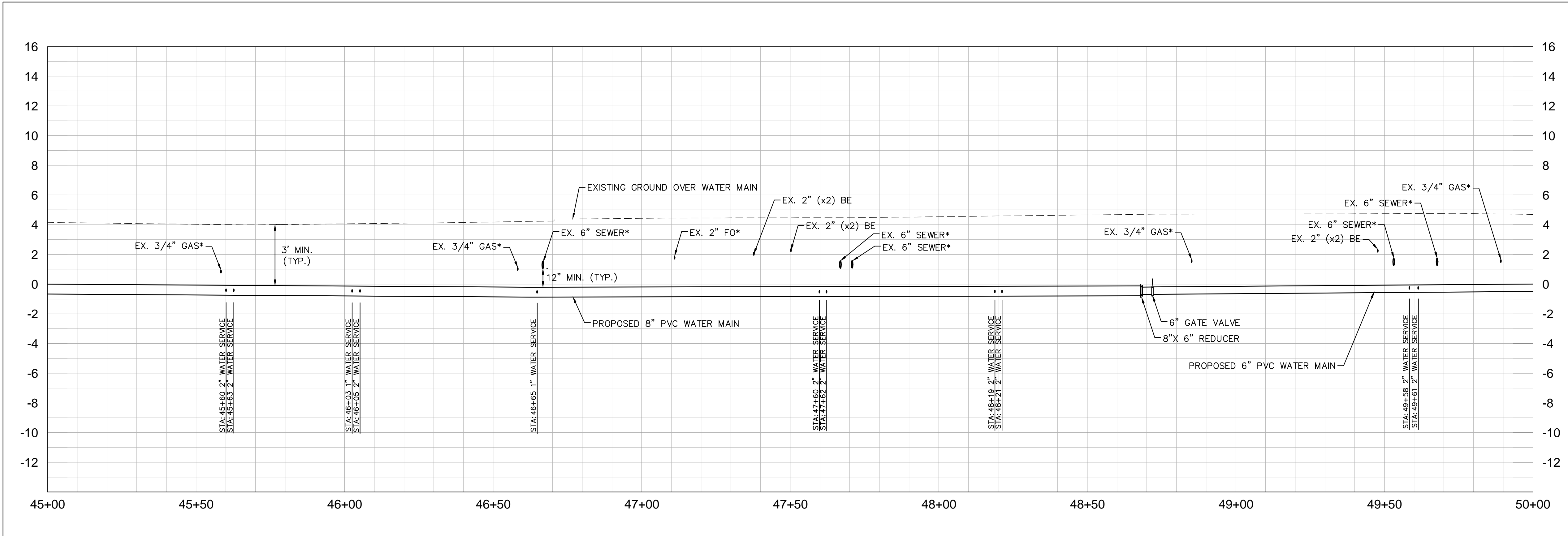
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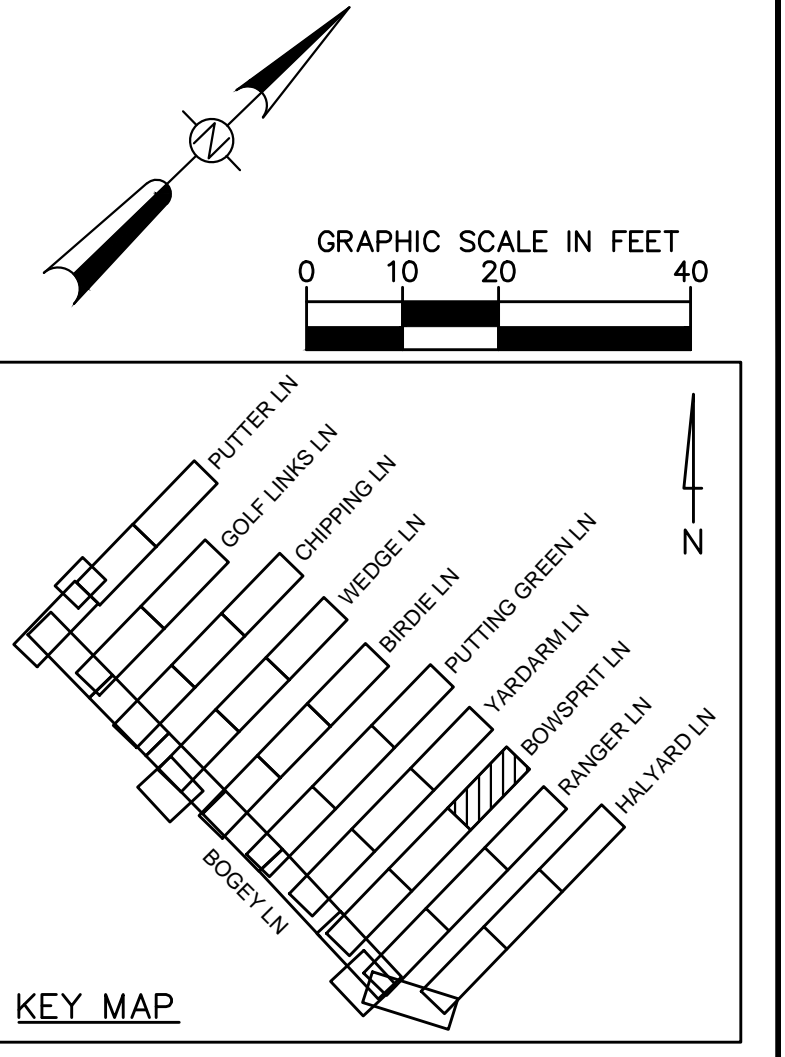
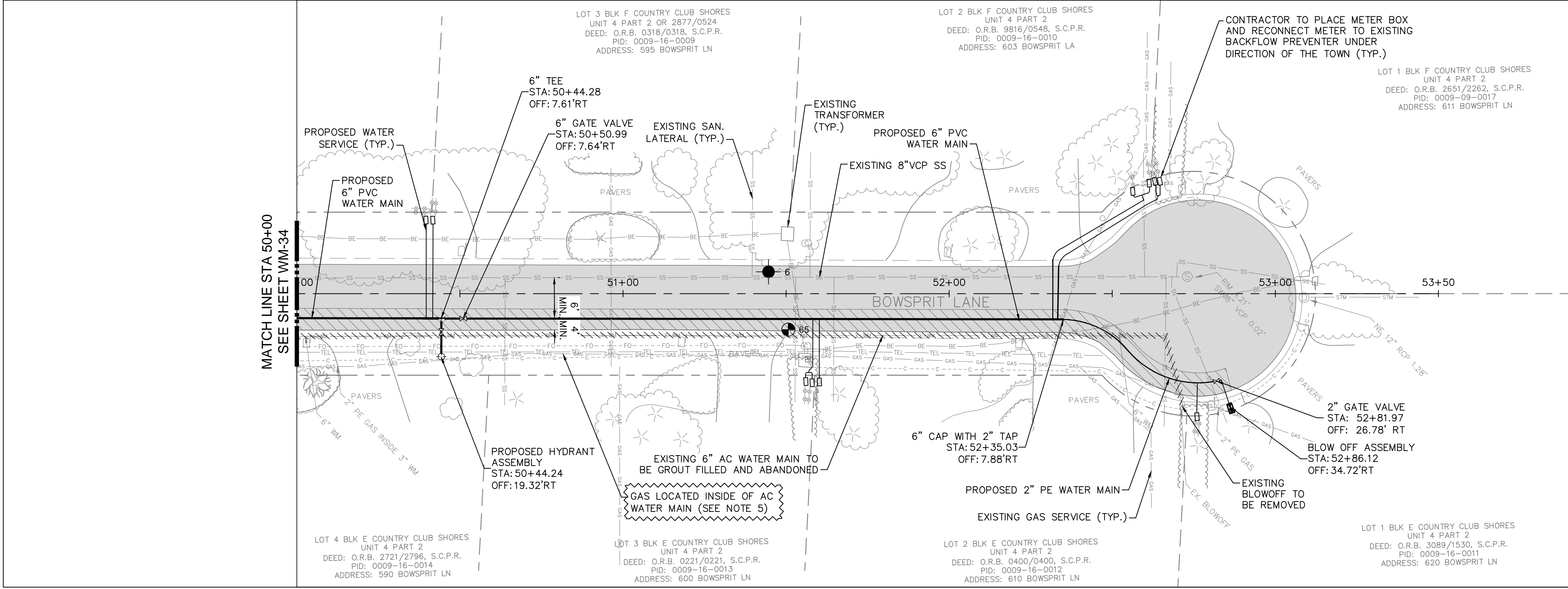
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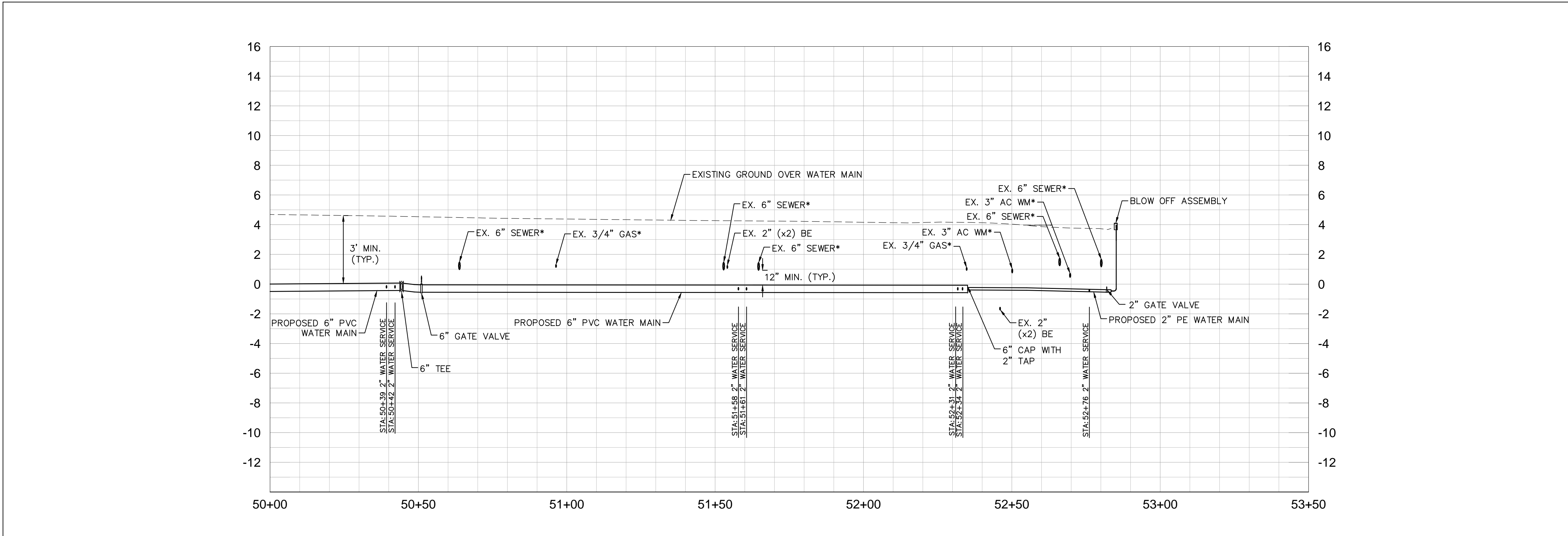
PHASE 2
BOWSPRIT LANE
[45+00 - 50+00]

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WM-34

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NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY LMC
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

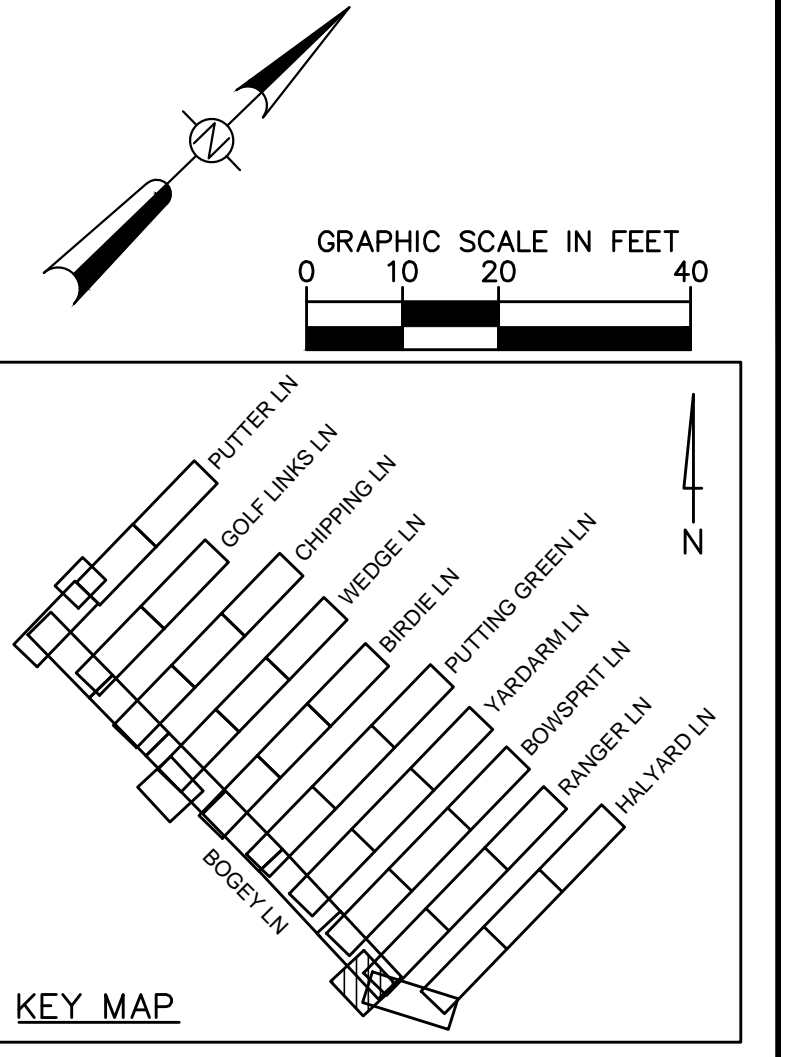
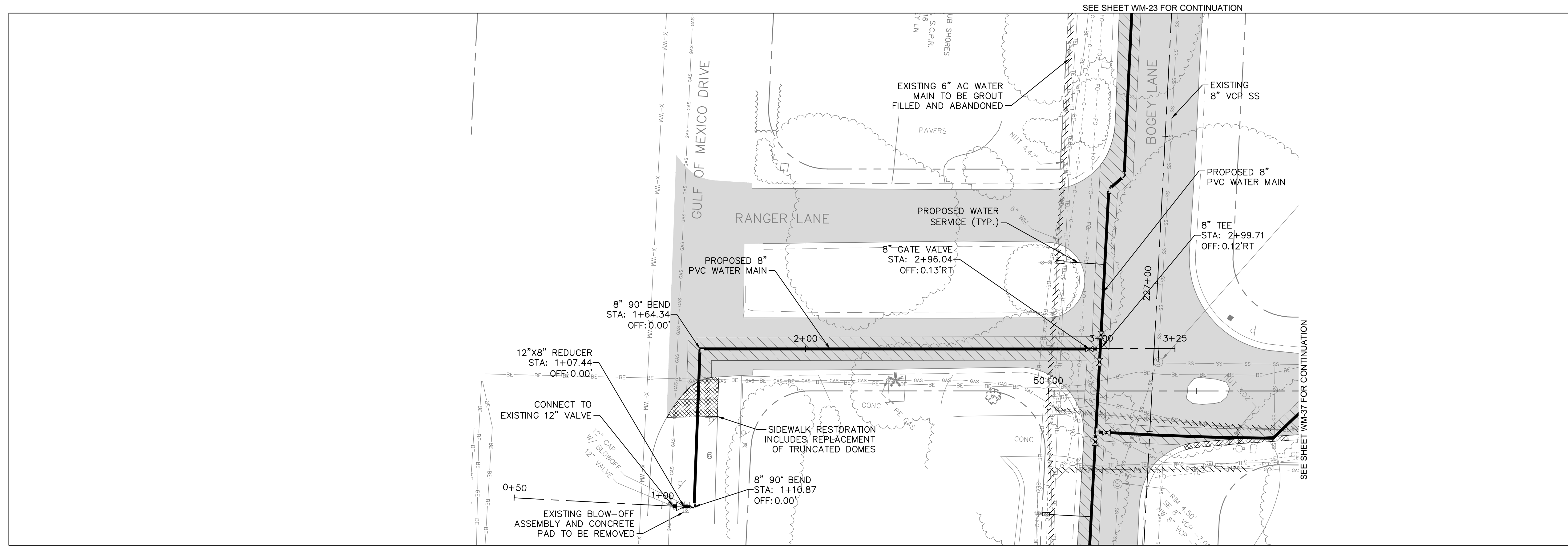
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 2
BOWSPRIT LANE
[50+00 - 53+50]

SHEET NUMBER
WM-35

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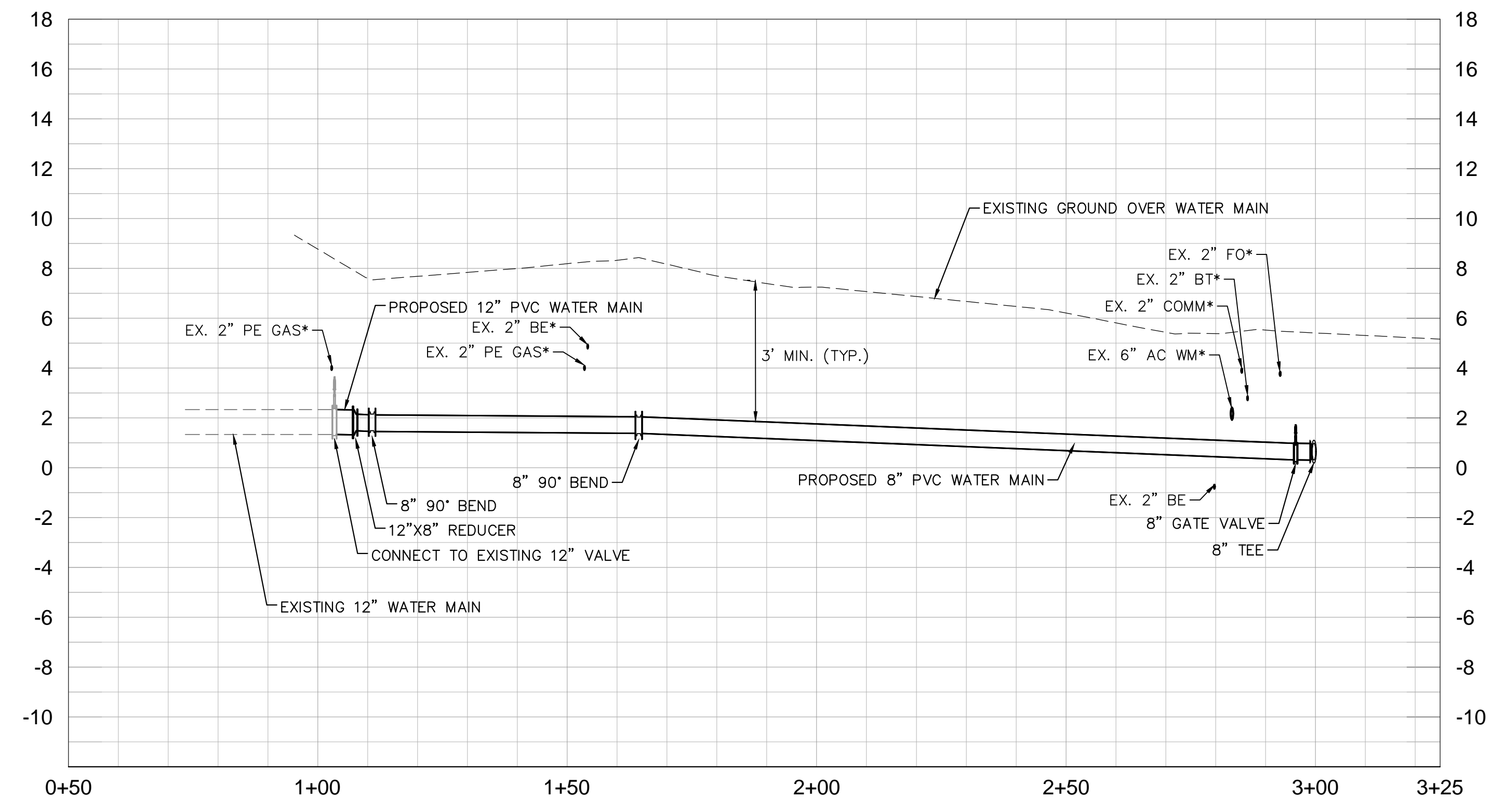
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TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
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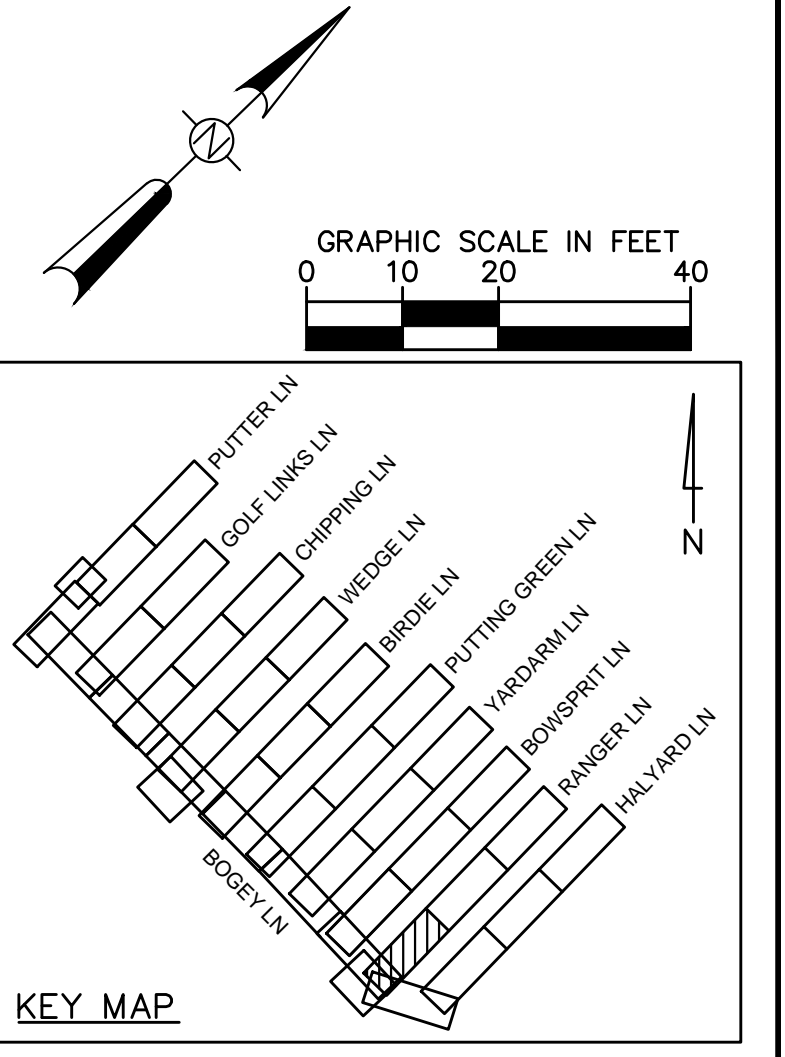
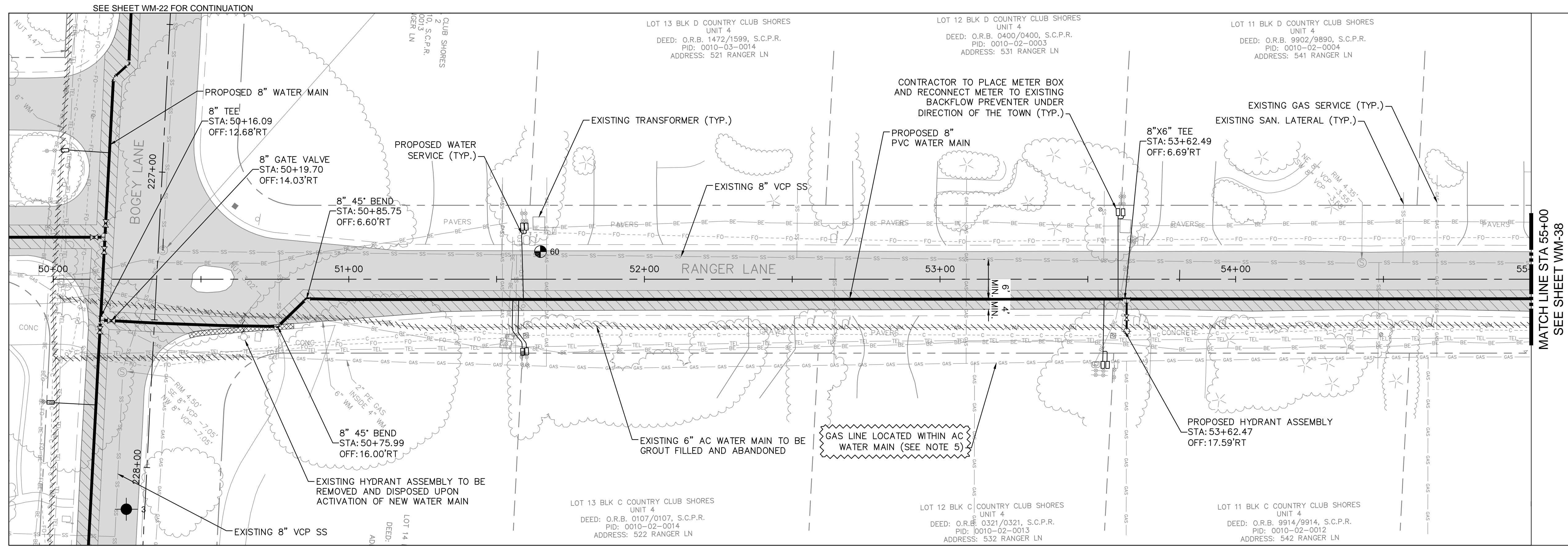
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476

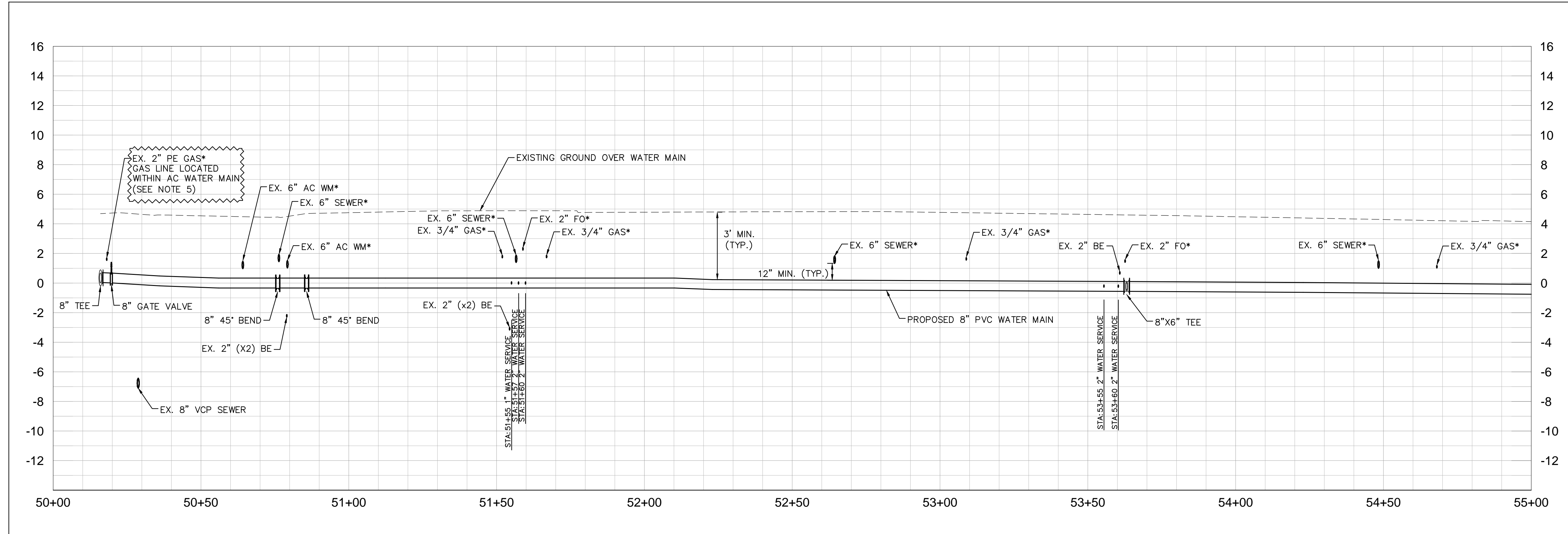
PHASE 2
GULF OF MEXICO DRIVE -
POINT OF CONNECTION

SHEET NUMBER
WM-36

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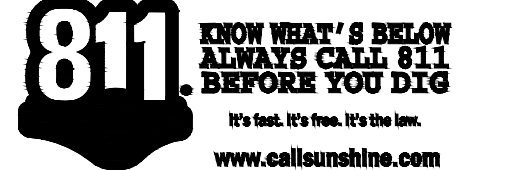


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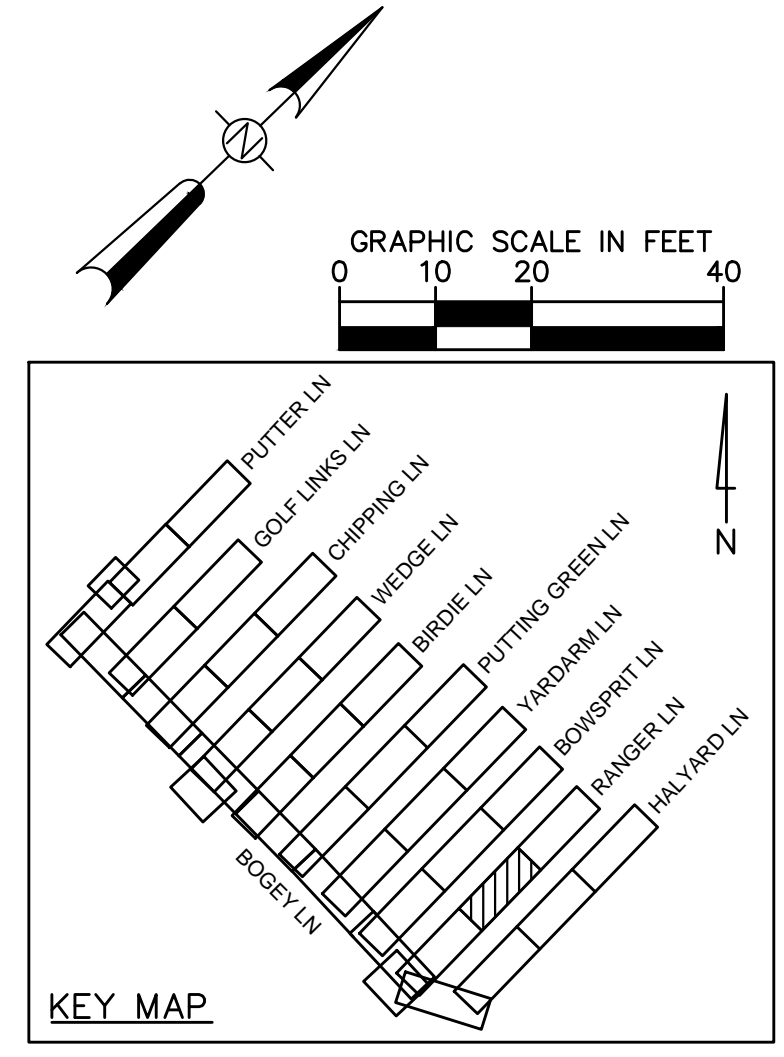
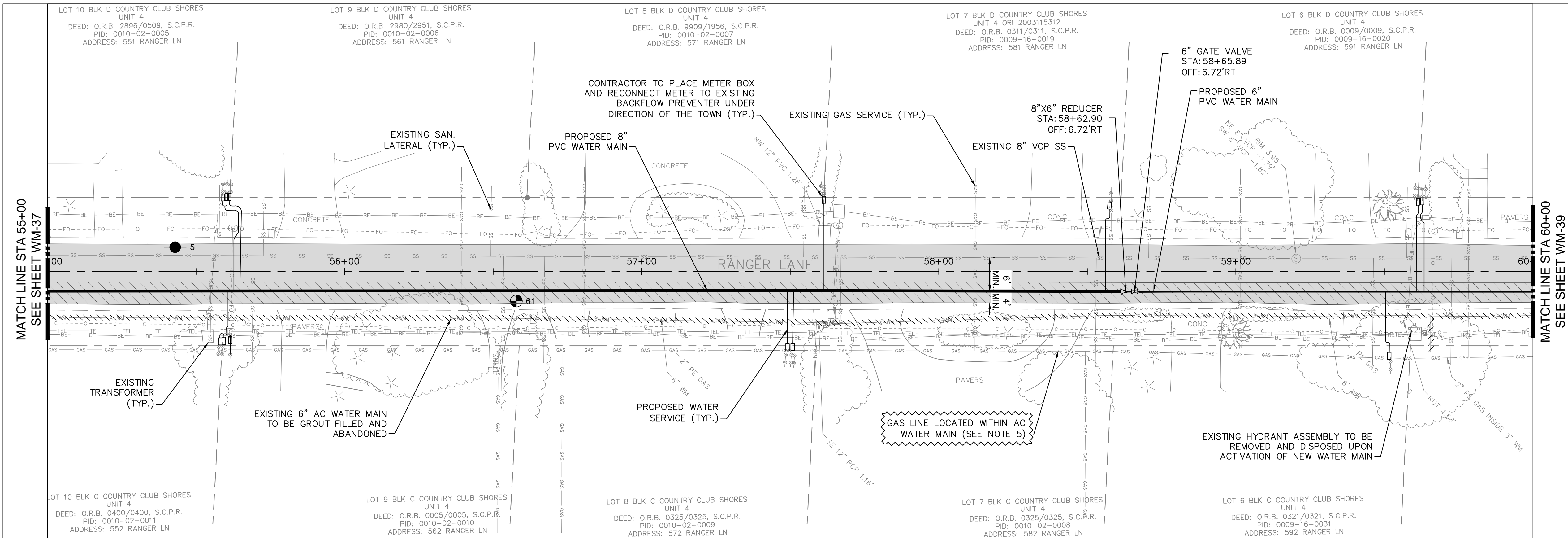
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

PHASE 2
RANGER LANE
[50+00 - 55+00]

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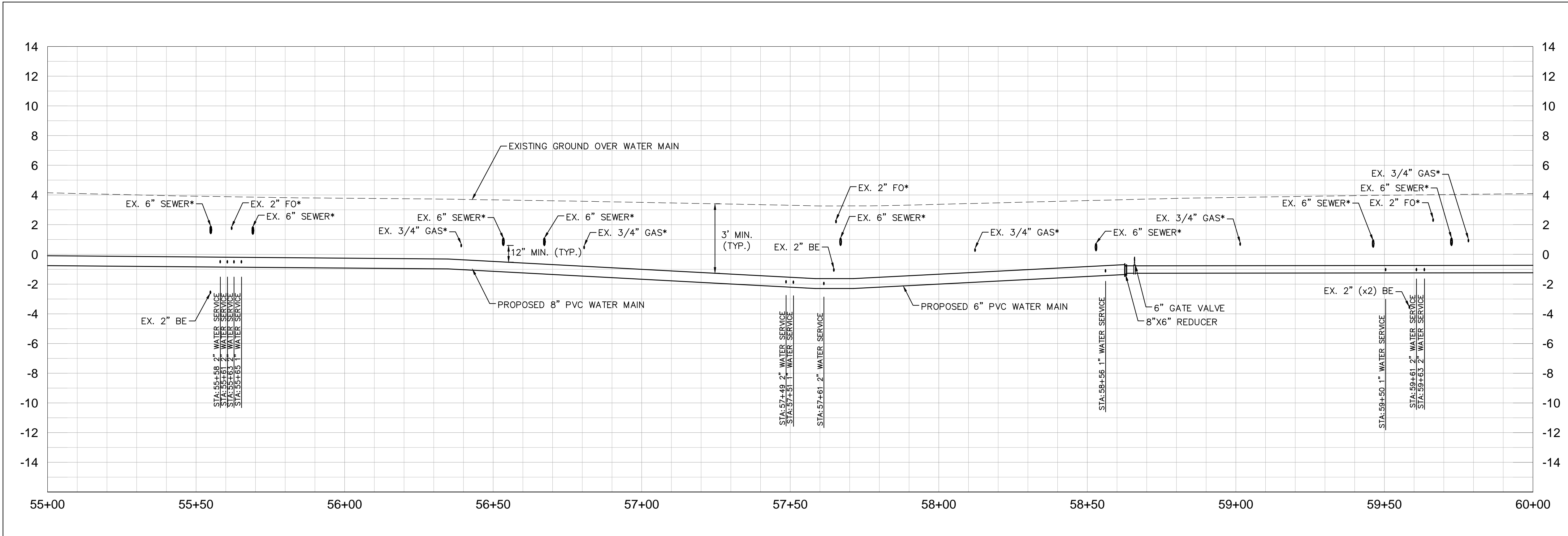
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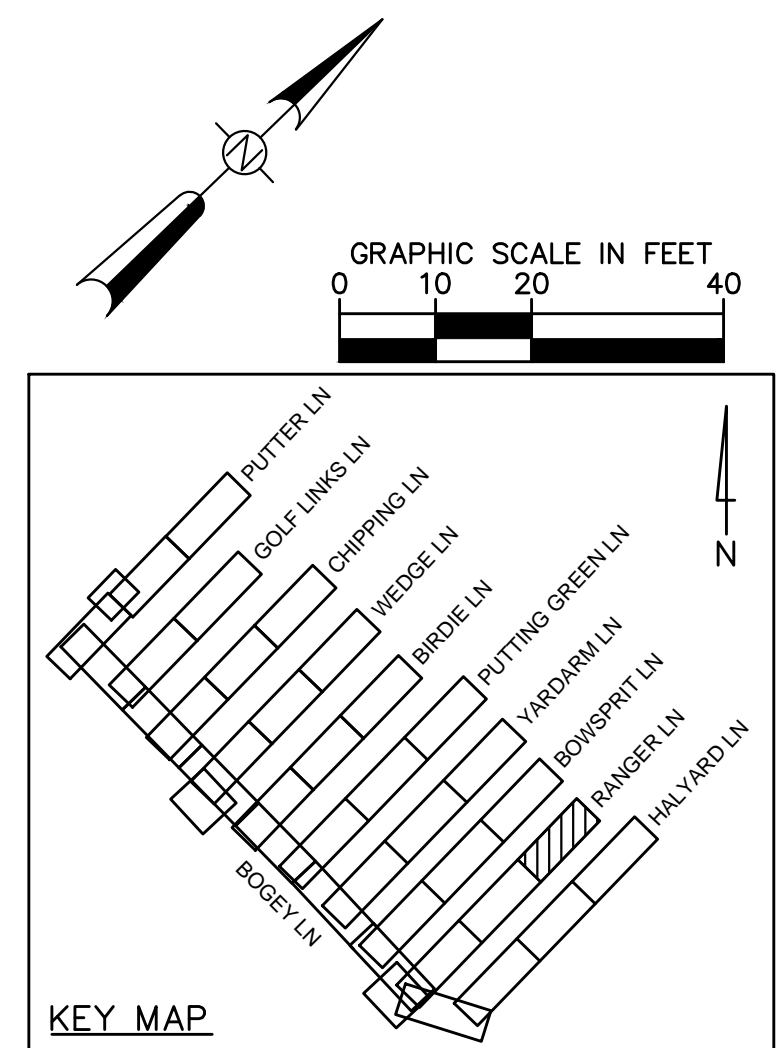
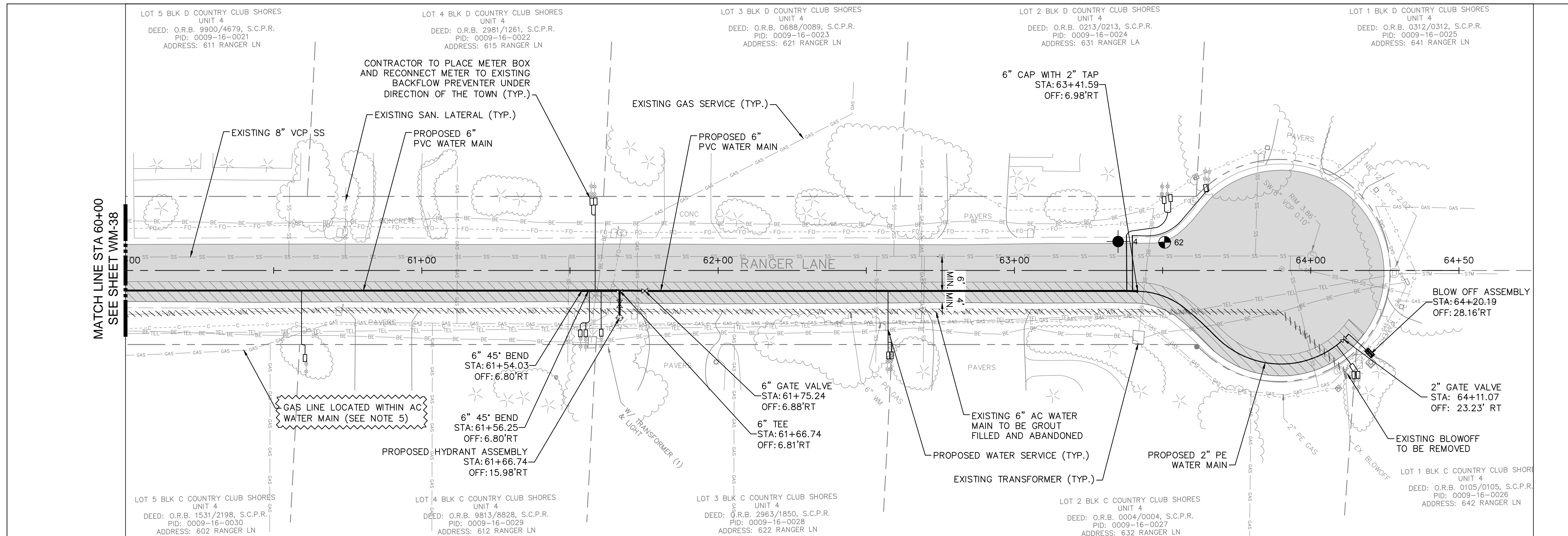
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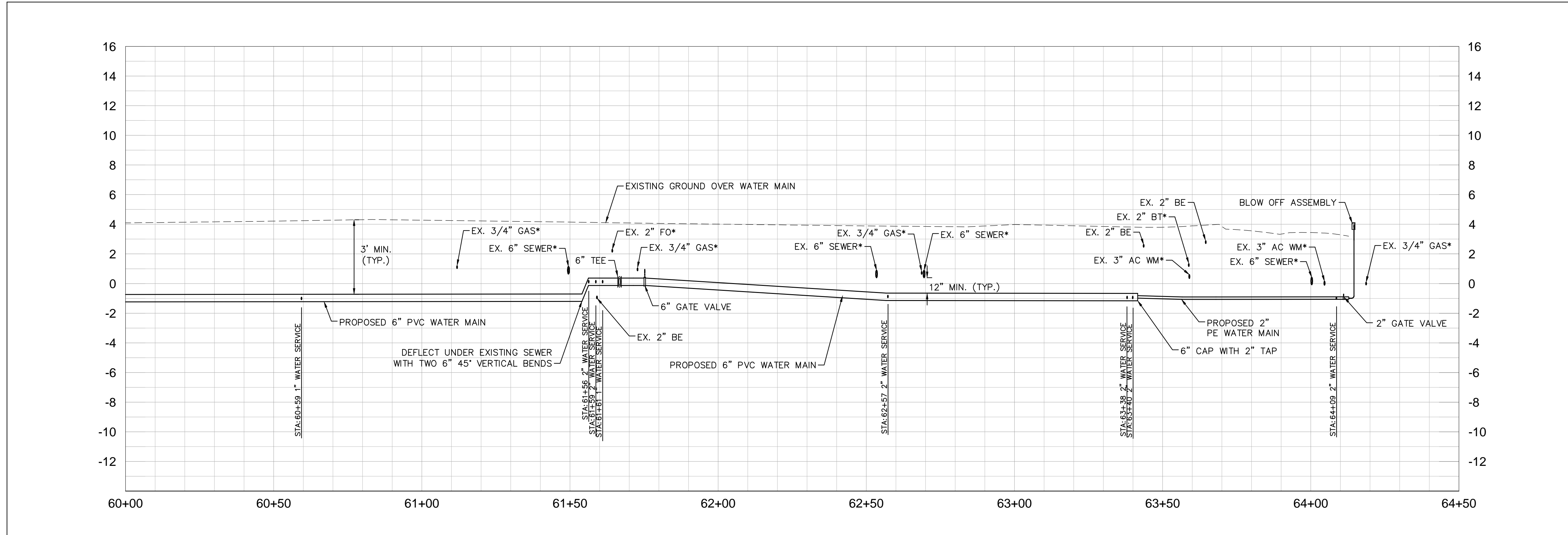
PHASE 2
RANGER LANE
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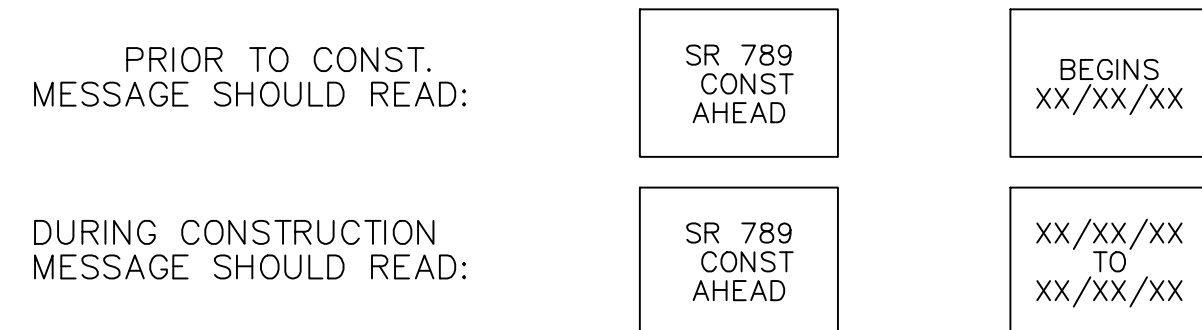
PHASE 2
RANGER LANE
[60+00 - 64+50]

SHEET NUMBER
WM-39

PORTABLE CHANGEABLE MESSAGE SIGNS

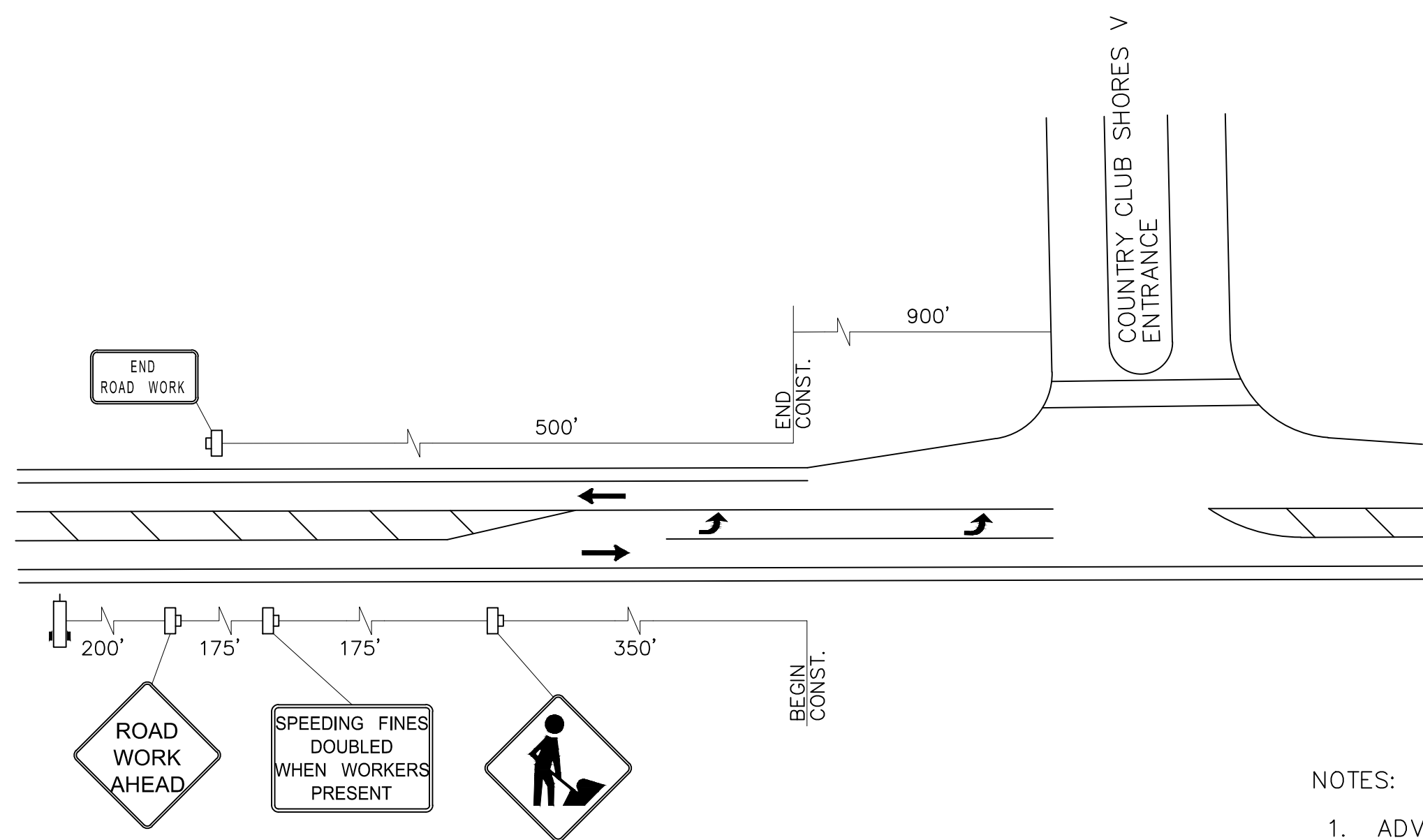
PLACE A PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN 900' / 1100' IN ADVANCE OF THE WORK ZONE ON GULF OF MEXICO DRIVE (SR-789) FOR A PERIOD OF 14 DAYS PRIOR TO THE FIRST DAY OF ROADWAY CONSTRUCTION.

BEGINNING OF PROJECT ALONG GULF OF MEXICO DRIVE (SR-789) BOTH DIRECTIONS OF TRAVEL.

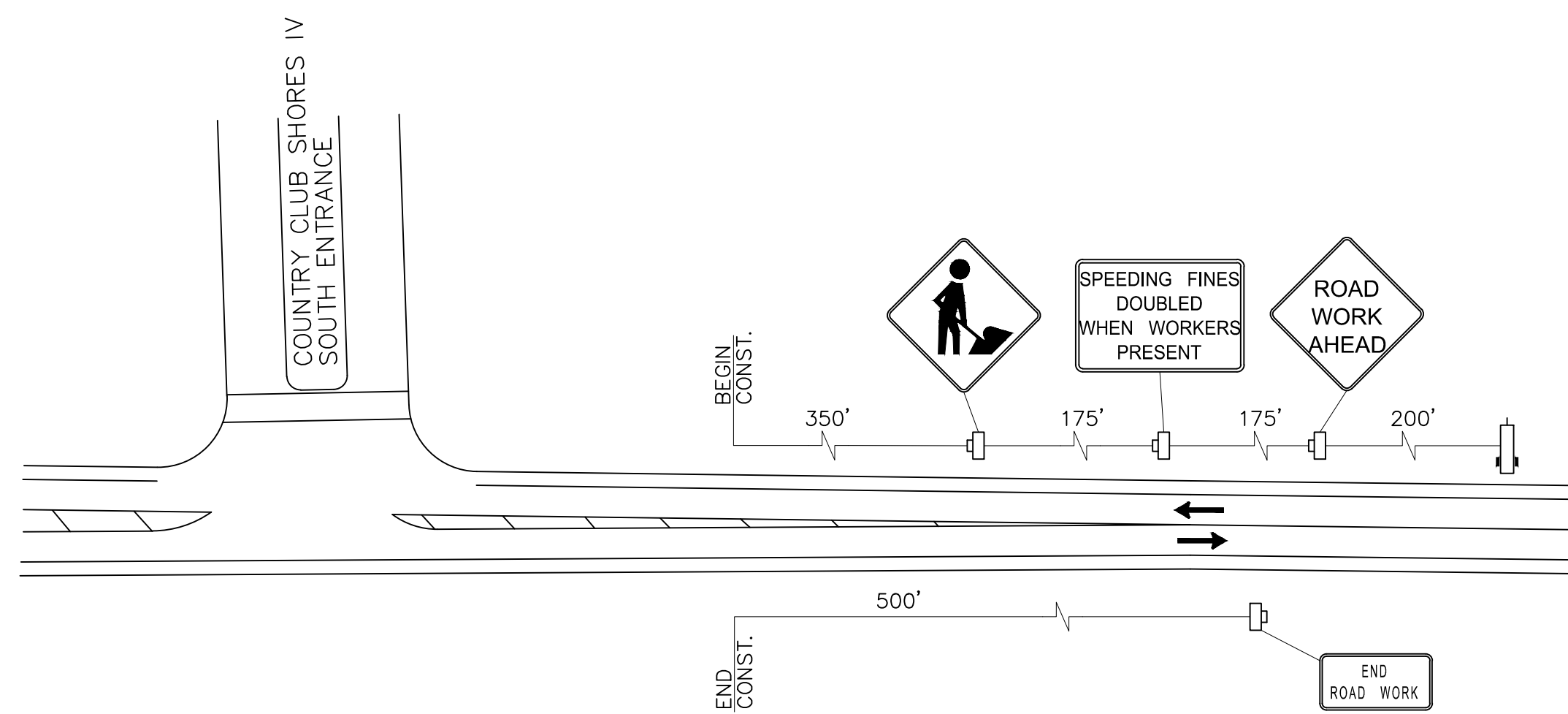


GENERAL NOTES

1. THE EXISTING POSTED SPEED LIMIT SHALL REMAIN IN EFFECT FOR ALL TEMPORARY TRAFFIC CONTROL AREAS.
GULF OF MEXICO DRIVE (SR 789) – POSTED 45 MPH
WITHIN THE COUNTRY CLUB SHORES DEVELOPMENT – NOT POSTED 25 MPH
2. NOTIFY EMERGENCY SERVICES (2) WEEKS PRIOR TO ROAD CLOSURES.
3. COORDINATE WITH FDOT ON CONSTRUCTION WITHIN THE GULF OF MEXICO (SR 789) RIGHT OF WAY.
4. COORDINATE WITH SARASOTA COUNTY AREA TRANSIT (SCAT) FOR TEMPORARY RELOCATION OF BUS STOPS IF REQUIRED.
5. ONLY ONE ACCESS DRIVE TO COUNTRY CLUB SHORES DEVELOPMENT MAY BE CLOSED AT A TIME.
6. PLACE TEMPORARY BARRIERS AT ALL DROP-OFFS DURING NON-WORKING HOURS.
(PER INDICES 102-100, 102-110, 102-120 AND 102-600)



BEGIN CONSTRUCTION SIGNAGE DETAIL
GULF OF MEXICO DRIVE (SR 789)



END CONSTRUCTION SIGNAGE DETAIL
GULF OF MEXICO DRIVE (SR 789)

NOTES:

1. ADVANCE WARNING SIGNS TO BE USED DURING CONSTRUCTION WITHIN GULF OF MEXICO DR. (SR 789) ROW AND WITHIN EACH ENTRANCE DRIVE.
2. ADJUST SIGNAGE TO ACCOUNT FOR DETOURS WHEN REQUIRED.

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
	TRAFFIC CONTROL SIGN
	WORK ZONE SIGN

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TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
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SARASOTA COUNTY FL

LICENSED PROFESSIONAL
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DATE:

ADVANCE WARNING LAYOUT

SHEET NUMBER
T-1

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PHASE 1

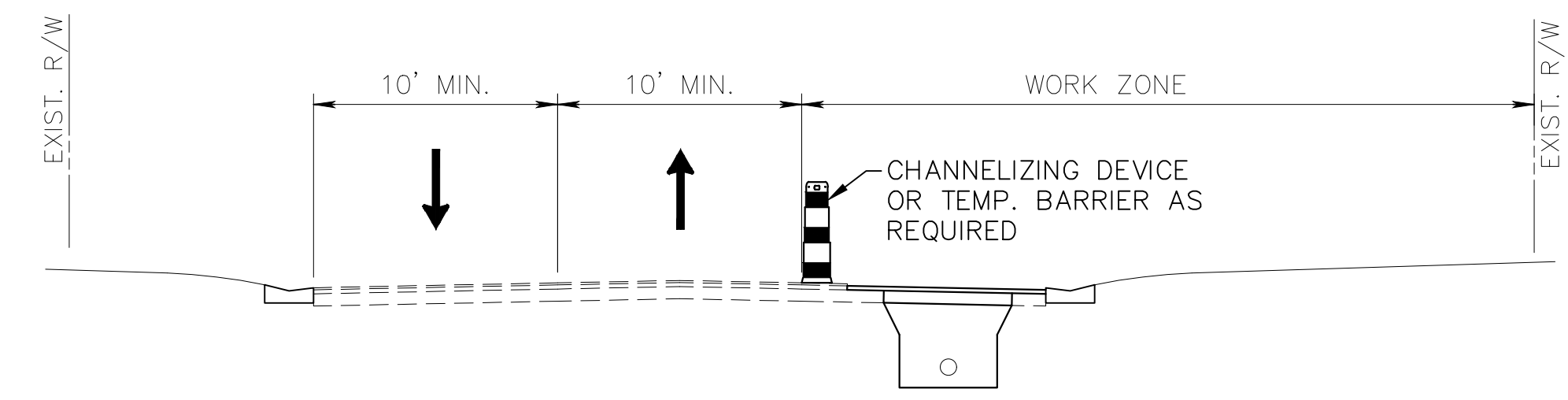
WATER MAIN AND ROADWAY WORK RECONSTRUCTION

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP ADVANCE WARNING LAYOUT.
2. PLACE WORK ZONE SIGNS, TYPE III BARRICADES AND CHANNELIZING DEVICES AS SHOWN IN THE PHASE 1 TYPICALS AND DETAILS. PLACE EROSION CONTROL MEASURES PER PLANS. UTILIZE THE 600 SERIES INDICES AS NECESSARY.
3. CONSTRUCT WATER TRANSMISSION MAIN (OPEN CUT) AND BACKFILL WHEN NECESSARY AS PROGRESS IS MADE THROUGH EACH CORRIDOR SO THAT NO DROP OFF HAZARD REMAINS DURING NON-WORKING HOURS WITHIN THE CLEAR ZONE LIMITS. STAGE CONSTRUCTION AT ALL DRIVEWAY CROSSINGS TO MAINTAIN ACCESS AT ALL TIMES AND PROVIDE APRON WEDGING FOR DROP OFFS GREATER THAN 1.5 INCHES OR WHERE REQUIRED TO MEET ADA STANDARDS. RESTORE ALL GRADING, SOD, LANDSCAPING, DRIVEWAYS AND ROADWAY STRUCTURE COURSE UP TO, BUT NOT INCLUDING FRICTION COURSE.
4. APPLY PAINTED PAVEMENT MARKINGS WHERE NEEDED TO STRUCTURAL COURSE (MATCH EXISTING PRE-CONSTRUCTION MARKINGS).

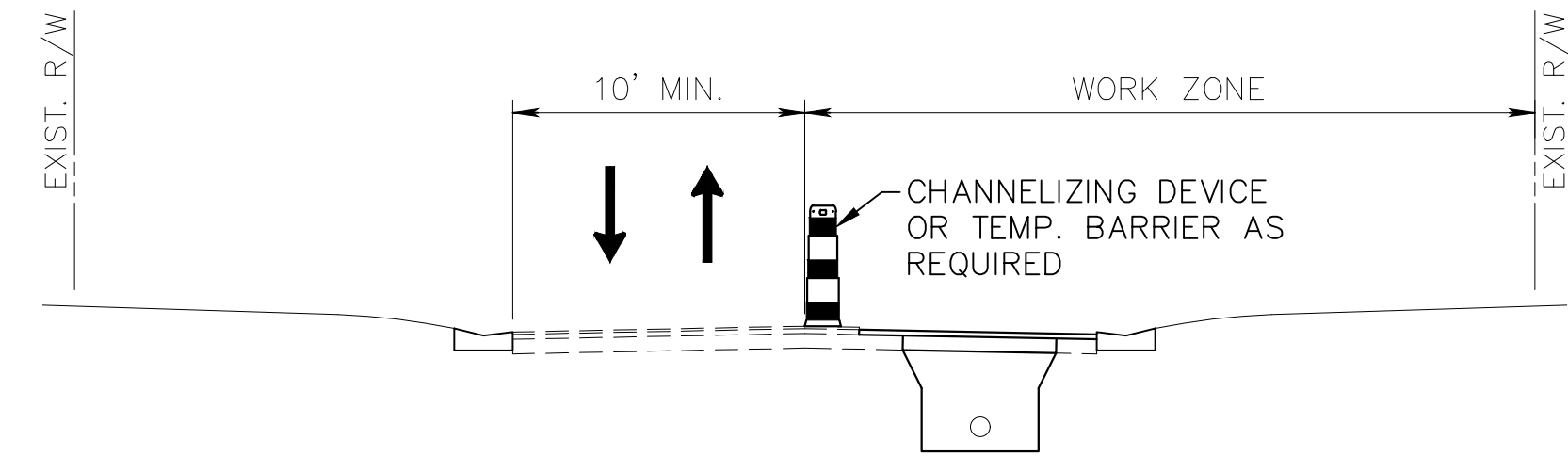
PHASE 2

MILLING & RESURFACING AND PAVEMENT MARKINGS

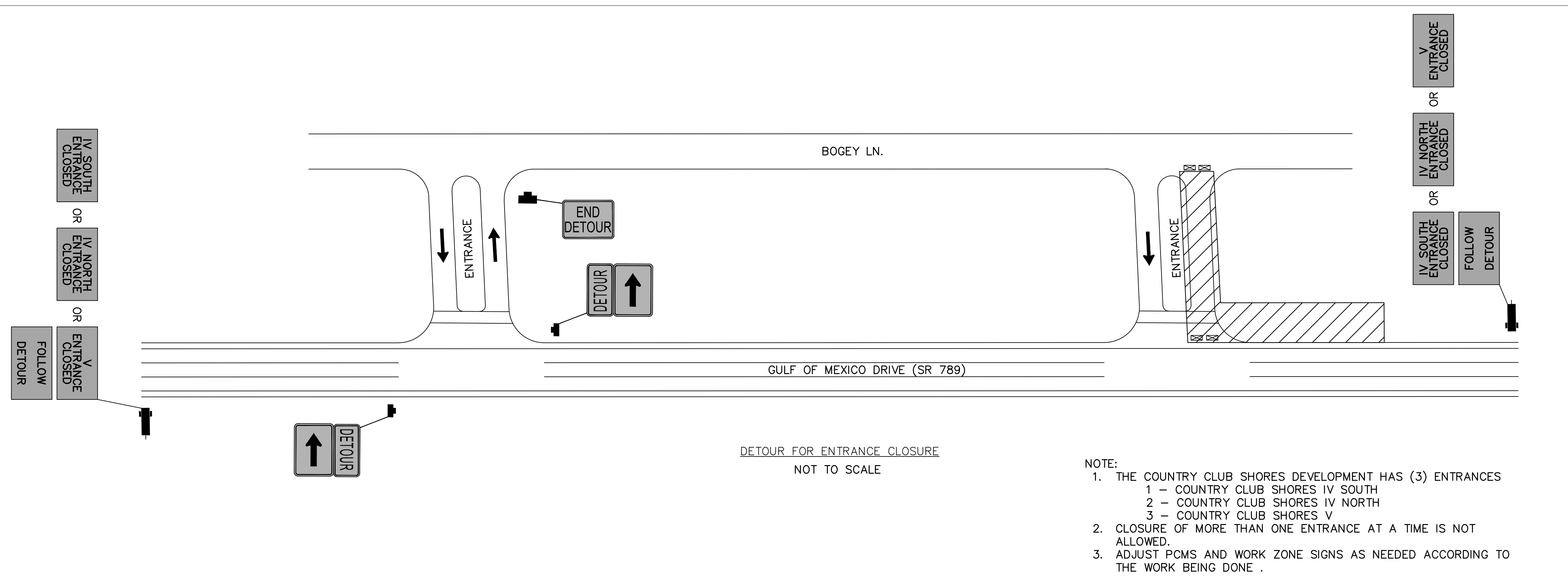
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2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES AS REFERENCED IN THE 600 SERIES INDICES.
3. MILL REMAINING PAVEMENT AND RESURFACE UTILIZING THE 600 SERIES INDICES AS NECESSARY. APPLY PAINTED PAVEMENT MARKINGS ACCORDING TO FINAL MARKING PLANS. AFTER CURING DURATION IS ACHIEVED AS REQUIRED BY SPECIFICATIONS PLACE FINAL THERMOPLASTIC MARKINGS.
4. REMOVE ALL TRAFFIC CONTROL DEVICES.



PHASE 1
BOGEY LN. (NORTH END)



PHASE 1
HALYARD LN.
RANGER LN.
BOWSPIRIT LN.
YARDARM LN.
PUTTING GREEN LN.
BIRDIE LN.
BIRDIE LN.
WEDGE LN.
CHIPPING LN.
GOLF LINKS LN.
PUTTER LN.
BOGEY LN. (SOUTH END)



- NOTE:**
1. THE COUNTRY CLUB SHORES DEVELOPMENT HAS (3) ENTRANCES
1 - COUNTRY CLUB SHORES IV SOUTH
2 - COUNTRY CLUB SHORES IV NORTH
3 - COUNTRY CLUB SHORES V
 2. CLOSURE OF MORE THAN ONE ENTRANCE AT A TIME IS NOT ALLOWED.
 3. ADJUST PCMS AND WORK ZONE SIGNS AS NEEDED ACCORDING TO THE WORK BEING DONE .

LEGEND

- Work Area
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Portable Changeable (Variable) Message Sign
- Type III Barricade

No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148800005
DATE 9/26/2022
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY LMC
CHECKED BY AMM

TOWN OF LONGBOAT KEY
COUNTRY CLUB SHORES
AC WATER MAIN REPLACEMENT

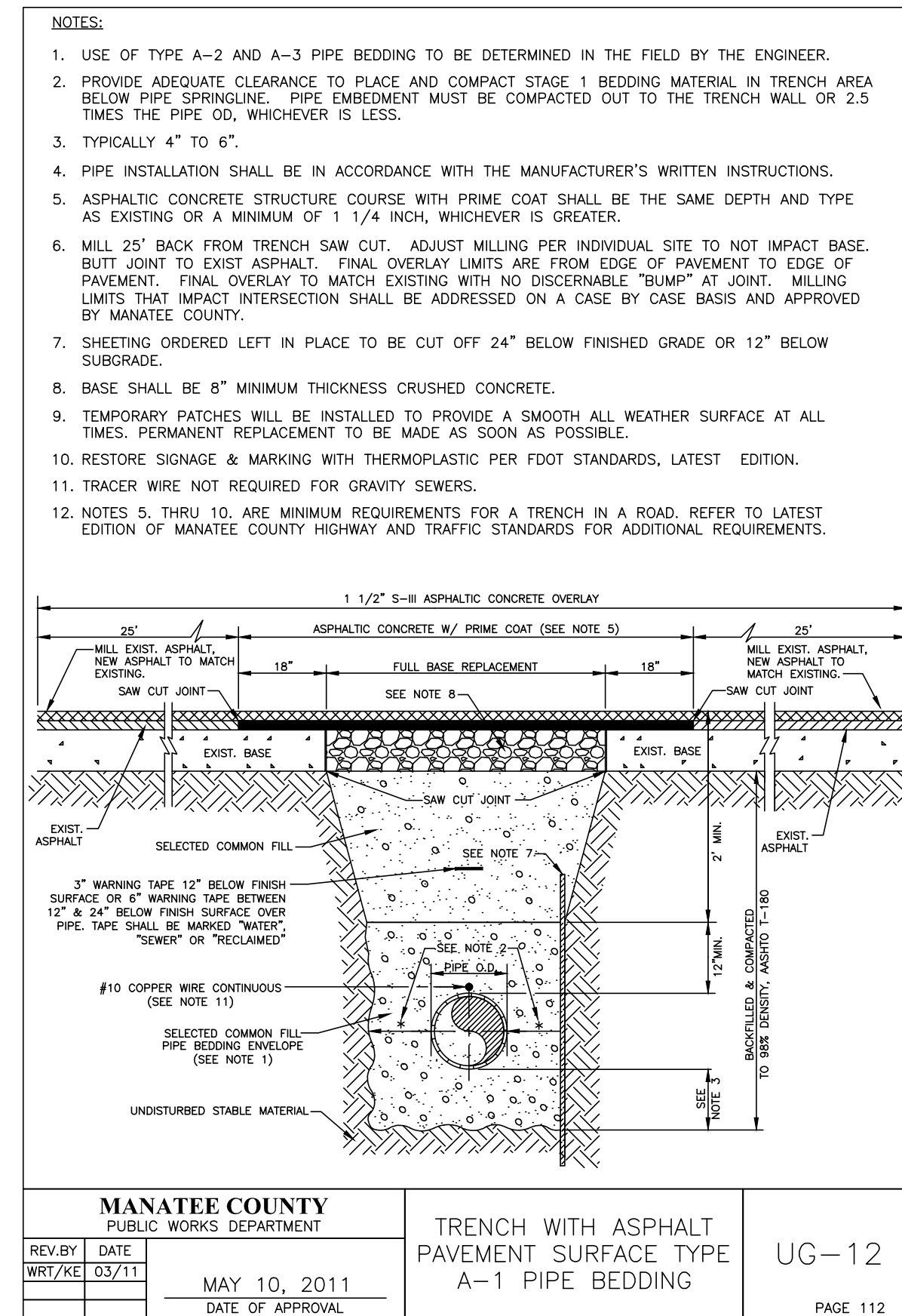
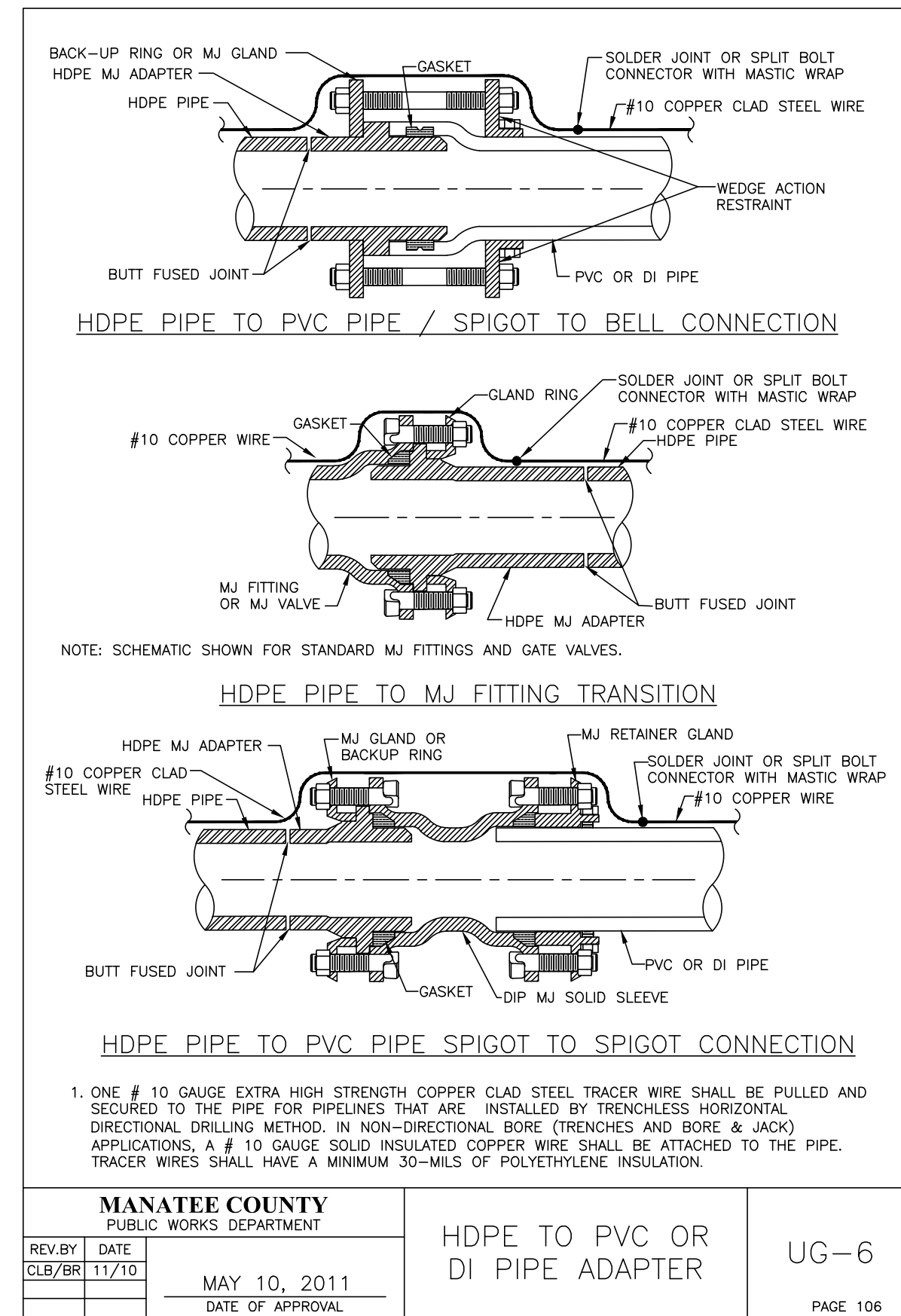
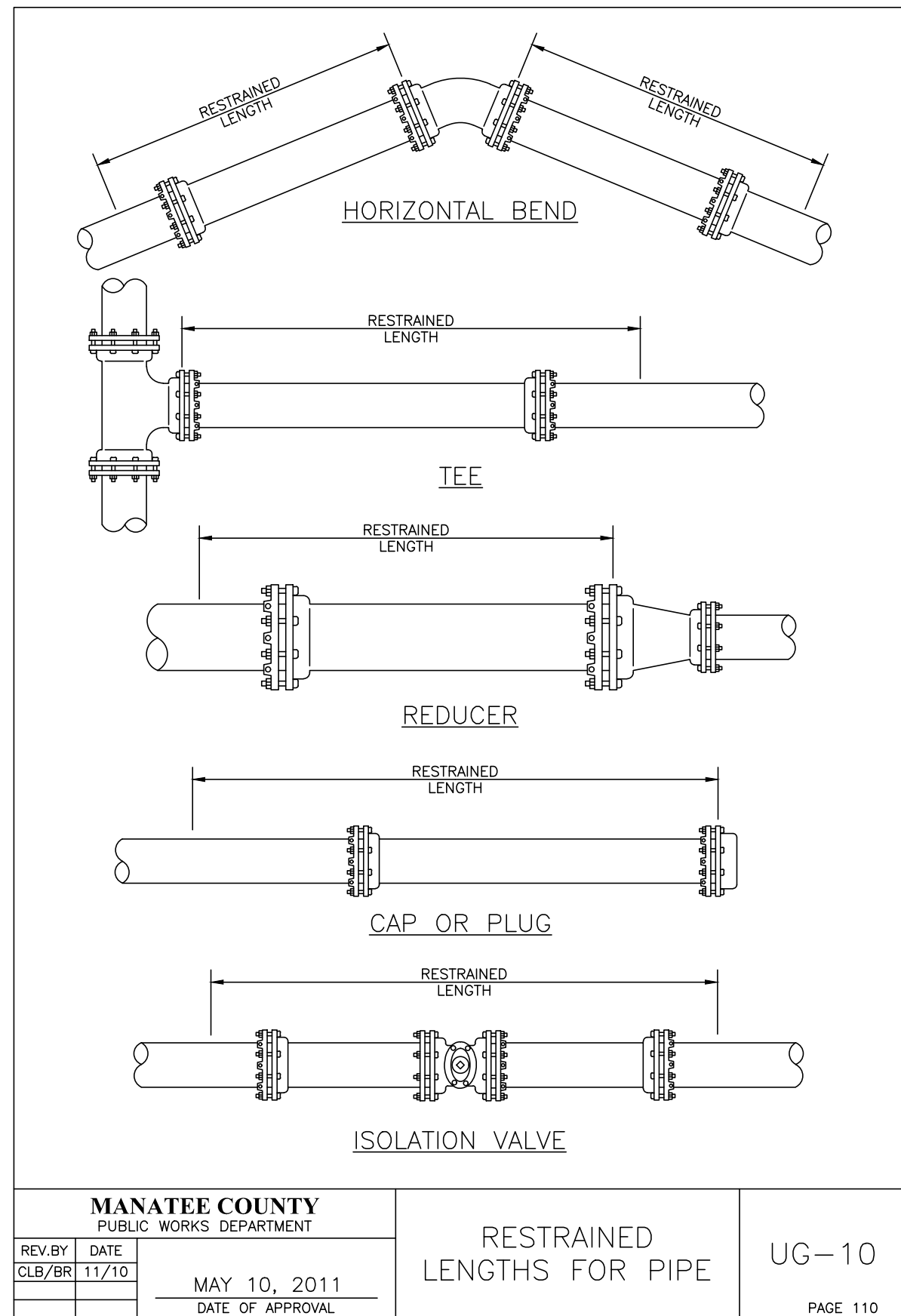
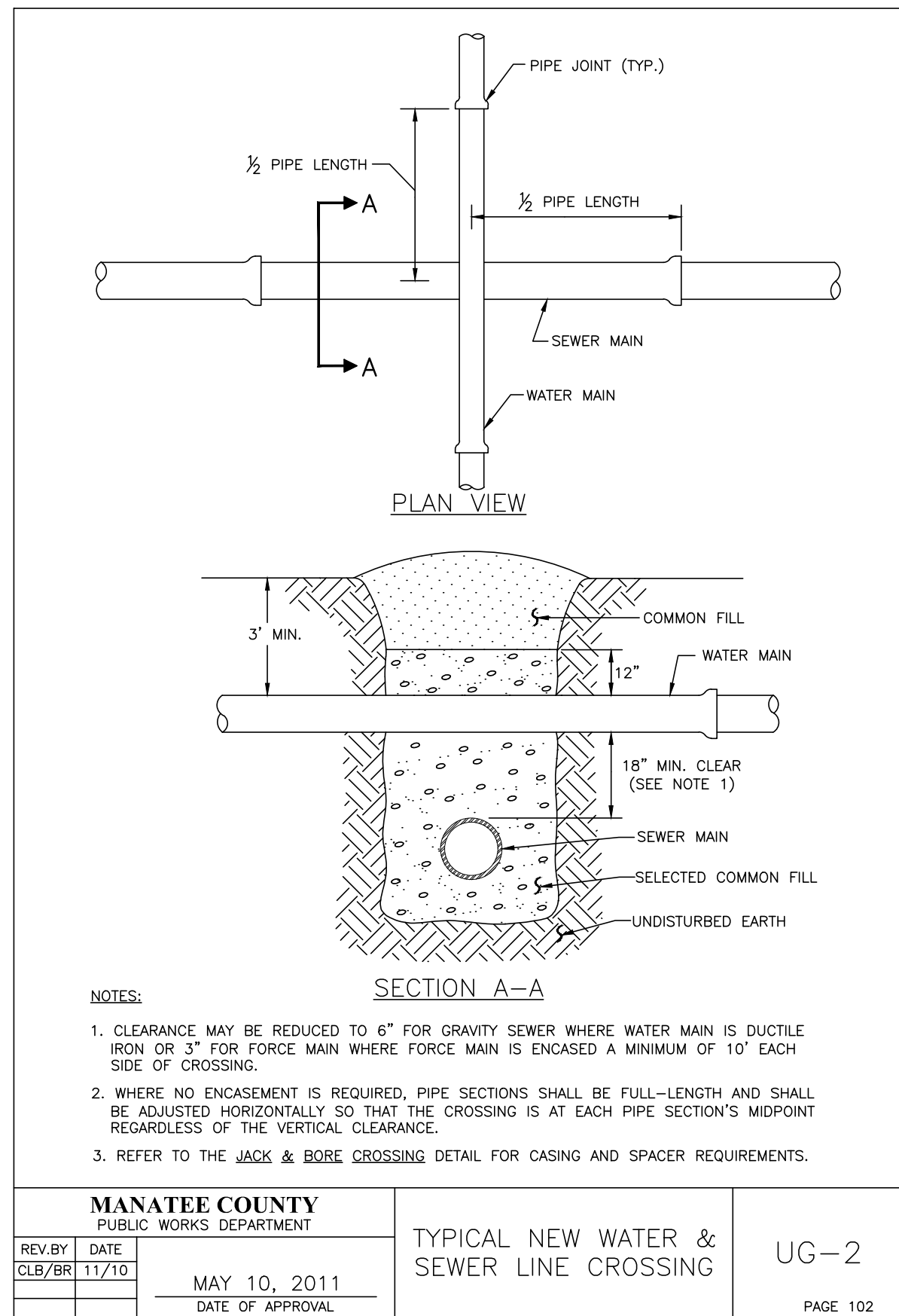
SARASOTA COUNTY

LICENSED PROFESSIONAL ASHLEY M. MIELE, P.E. 66476
FL DATE:

PHASING NOTES

SHEET NUMBER T-2

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PIPE SIZE (N.)	THRUST BLOCK DIMENSIONS B ft. x d inches											
	90° BEND	45° BEND	22.5° BEND	11.25° BEND	DEAD END & TEE	45° WYE						
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	1.3	3 1/2	1.1	3 1/2		
6	2.2	5 1/4	1.6	3 3/4	1.2	3 3/4	0.8	3 1/2	1.9	4 1/2	1.6	3 3/4
8	2.9	7	2.1	5	1.5	3 3/4	1.1	3 1/2	2.4	5 3/4	2.0	4 3/4
10	3.5	8 1/2	2.6	6 1/4	1.9	4 1/2	1.3	3 3/4	3.0	7 1/4	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/4	1.6	3 3/4	3.5	8 1/4	3.0	7 1/4
14	4.9	11 1/4	3.6	8 3/4	2.6	6 1/4	1.8	4 1/4	4.1	9 3/4	3.4	8 1/4
16	5.5	13 1/4	4.1	9 3/4	2.9	7	2.1	5	4.7	11 1/4	3.9	9 1/4
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/4	4.4	10 1/4
20	6.9	16 1/2	5.0	12	3.6	8 3/4	2.6	6 1/4	5.8	14	4.9	11 1/4
24	8.2	19 3/4	6.0	14 1/4	4.3	10 1/4	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/4	7.5	18	5.3	12 3/4	3.8	9	8.5	20 1/2	7.2	17 1/4
36	12.1	29	8.9	21 1/4	6.4	15 1/4	4.5	10 3/4	10.2	24 1/2	8.6	20 1/4

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

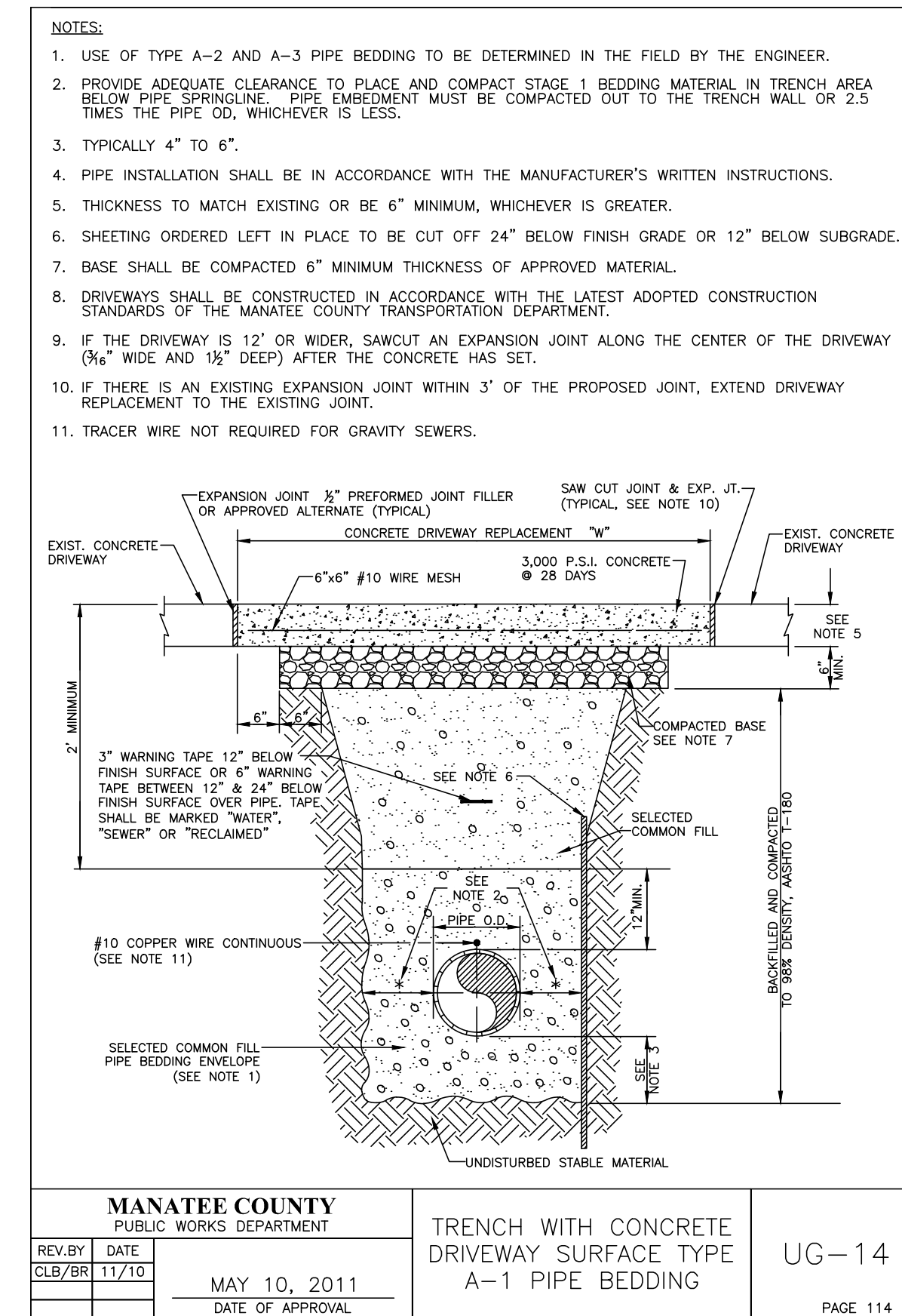
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MAY 10, 2011
DATE OF APPROVAL

CONCRETE THRUST BLOCKS

UG-7

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REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

MAIN PIPE SIZE	HORIZ. BENDS			TEES				REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	
24	90	38	18	X24	X18	X12	X10	X24	X18	X12	X10	214
20	78	32	16	X20	X16	X12	X10	X20	X16	X12	X10	184
16	66	27	13	X16	X12	X10	X8	X16	X12	X10	X8	151
12	52	22	10	X12	X10	X8	X6	X12	X10	X8	X6	118
10	44	18	9	X10	X8	X6	X4	X10	X8	X6	X4	100
8	37	15	7	X8	X6	X4	X3	X8	X6	X4	X3	83
6	29	12	6	X6	X4	X3	X2	X6	X4	X3	X2	63
4	21	8	4	X4	X3	X2	X1	X4	X3	X2	X1	45

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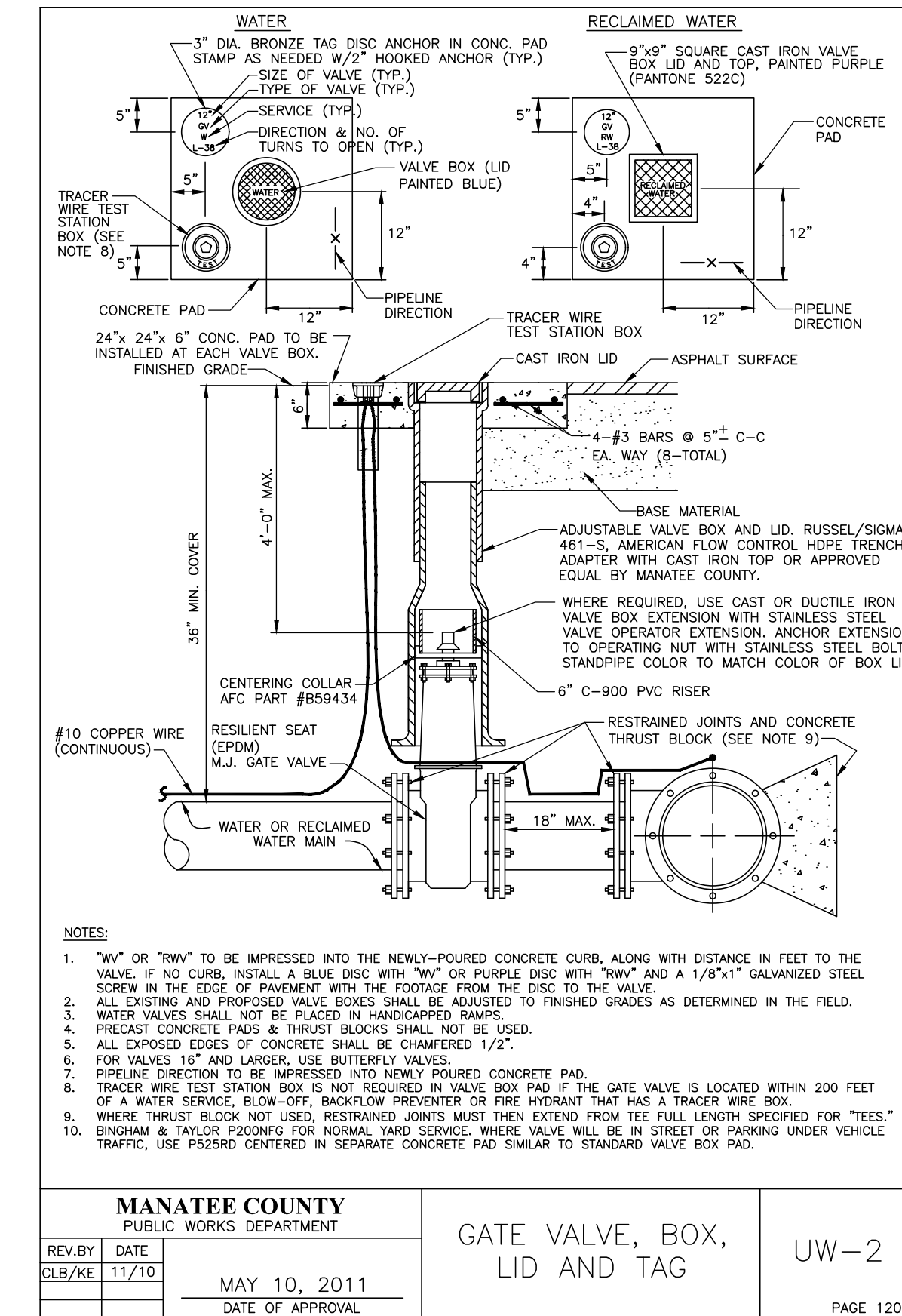
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RESTRAINED LENGTHS FOR PVC PIPE

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1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

TOWN OF LONGBOAT KEY
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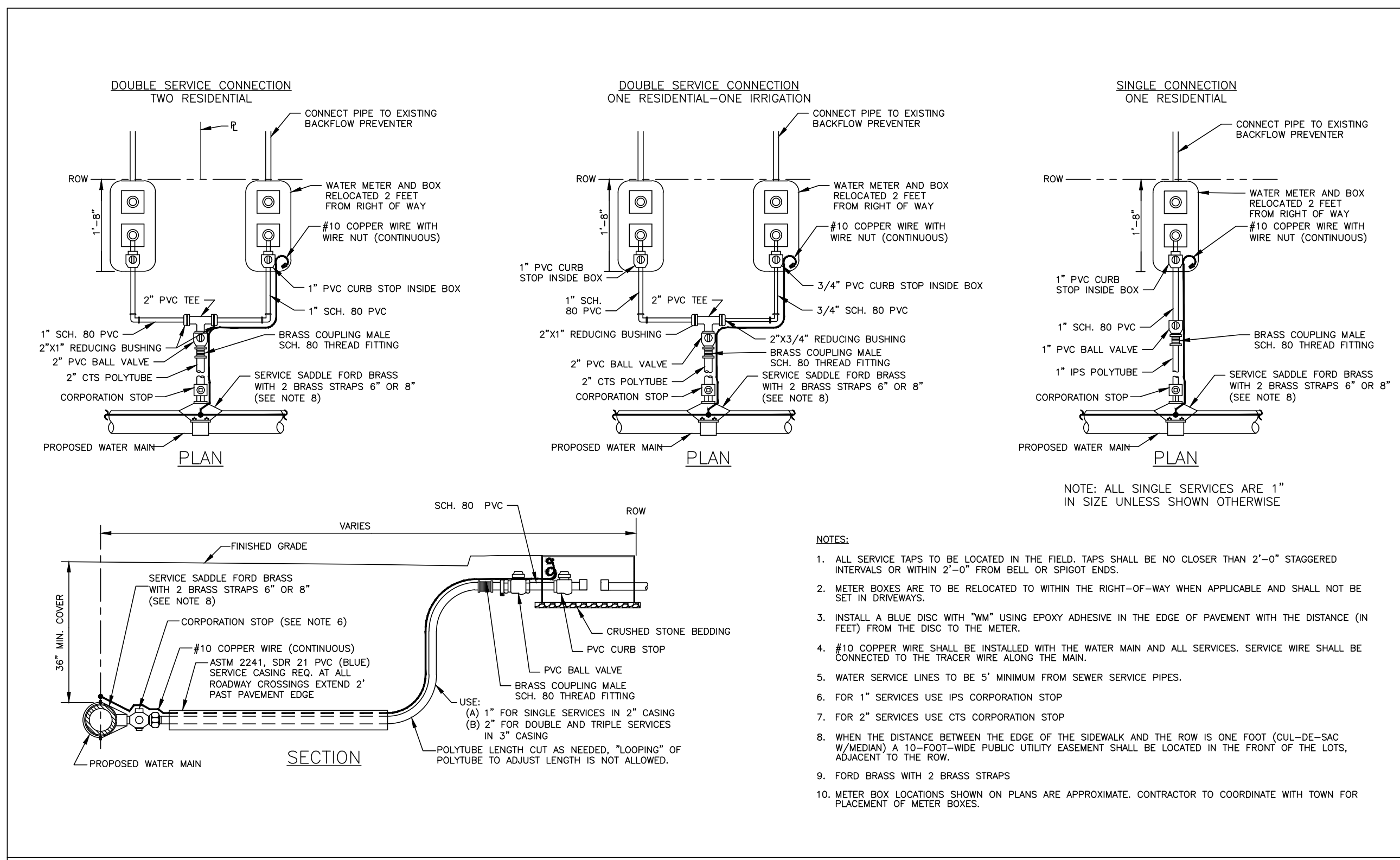
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STANDARD DETAILS

D-1

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TYPICAL WATER SERVICE CONNECTIONS

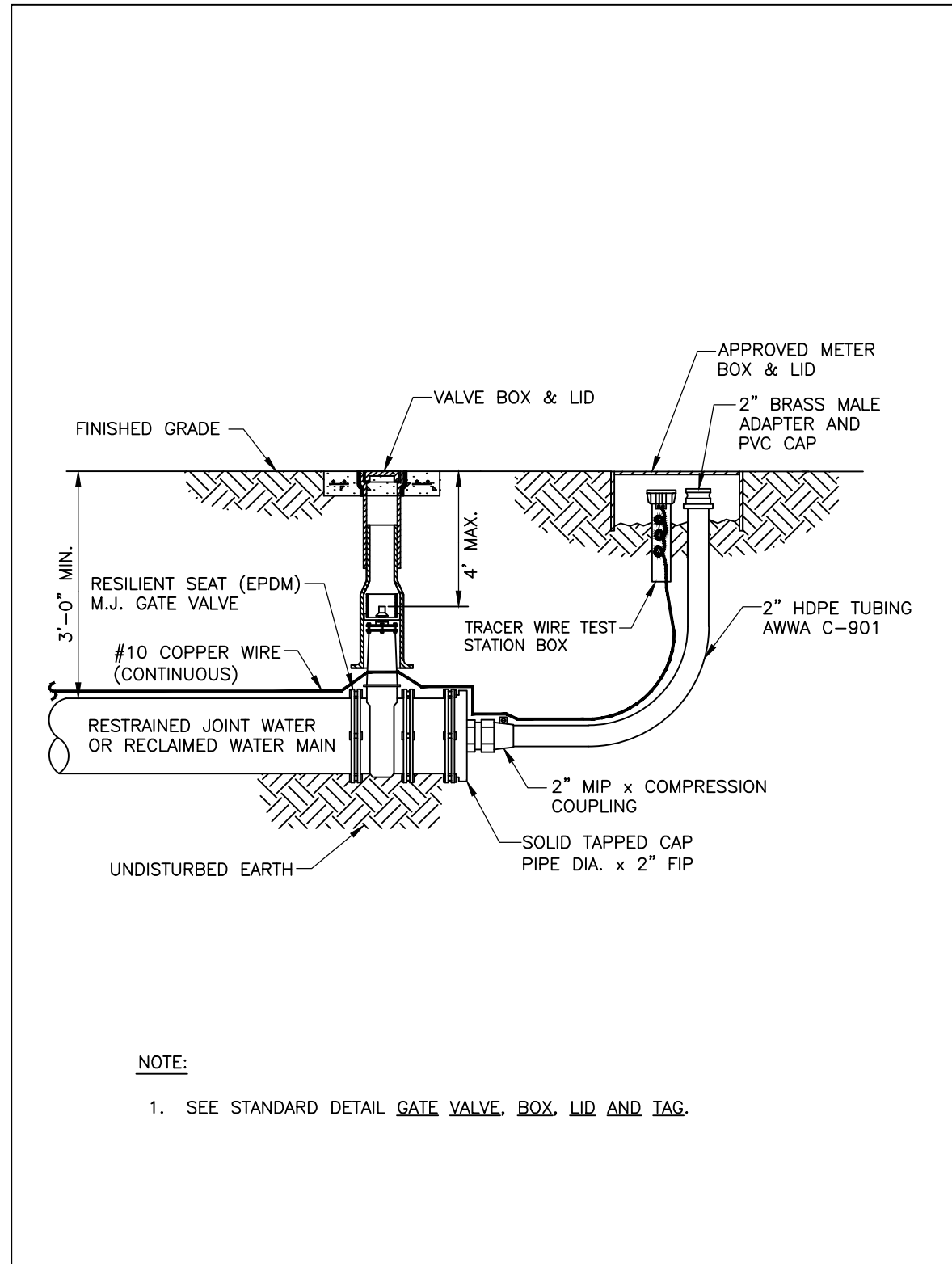
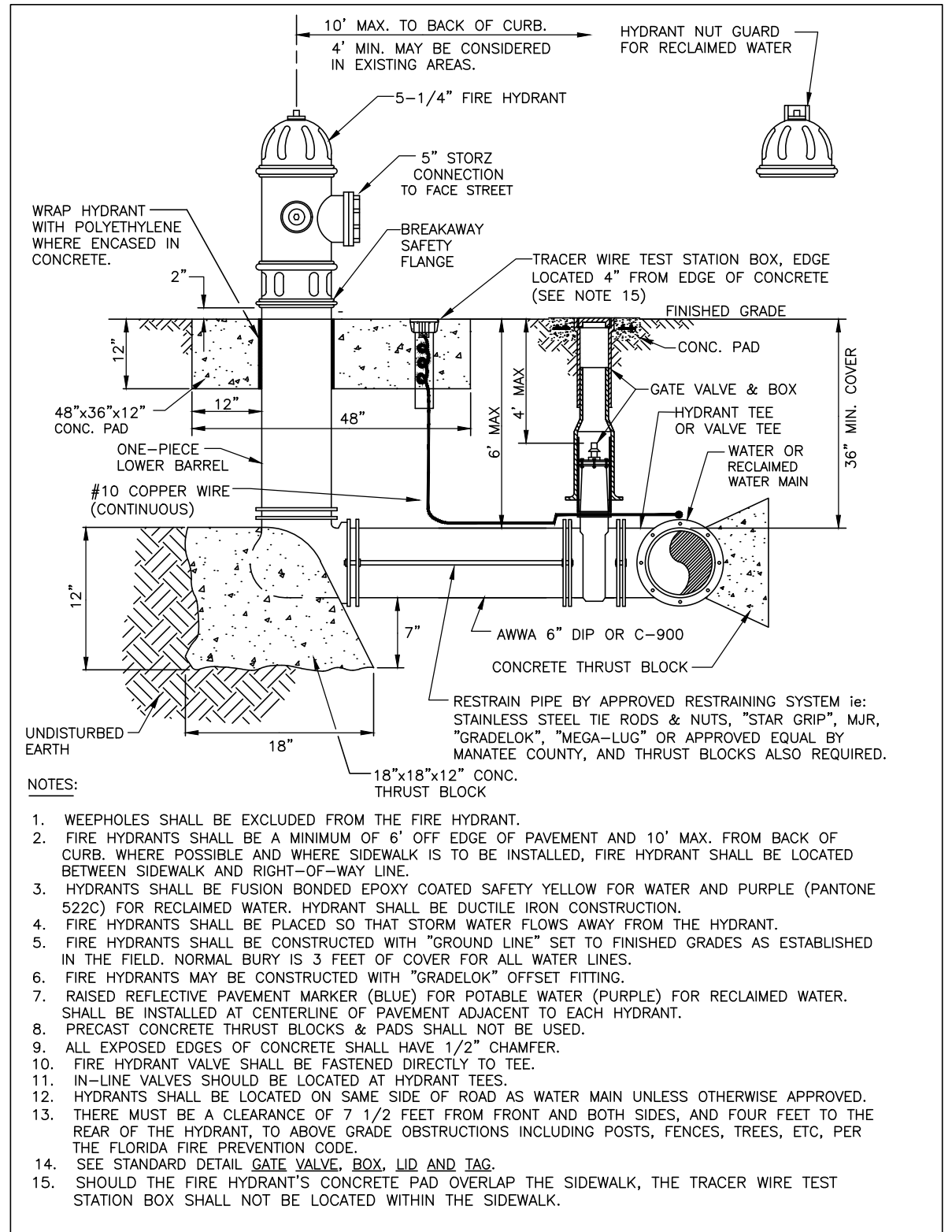
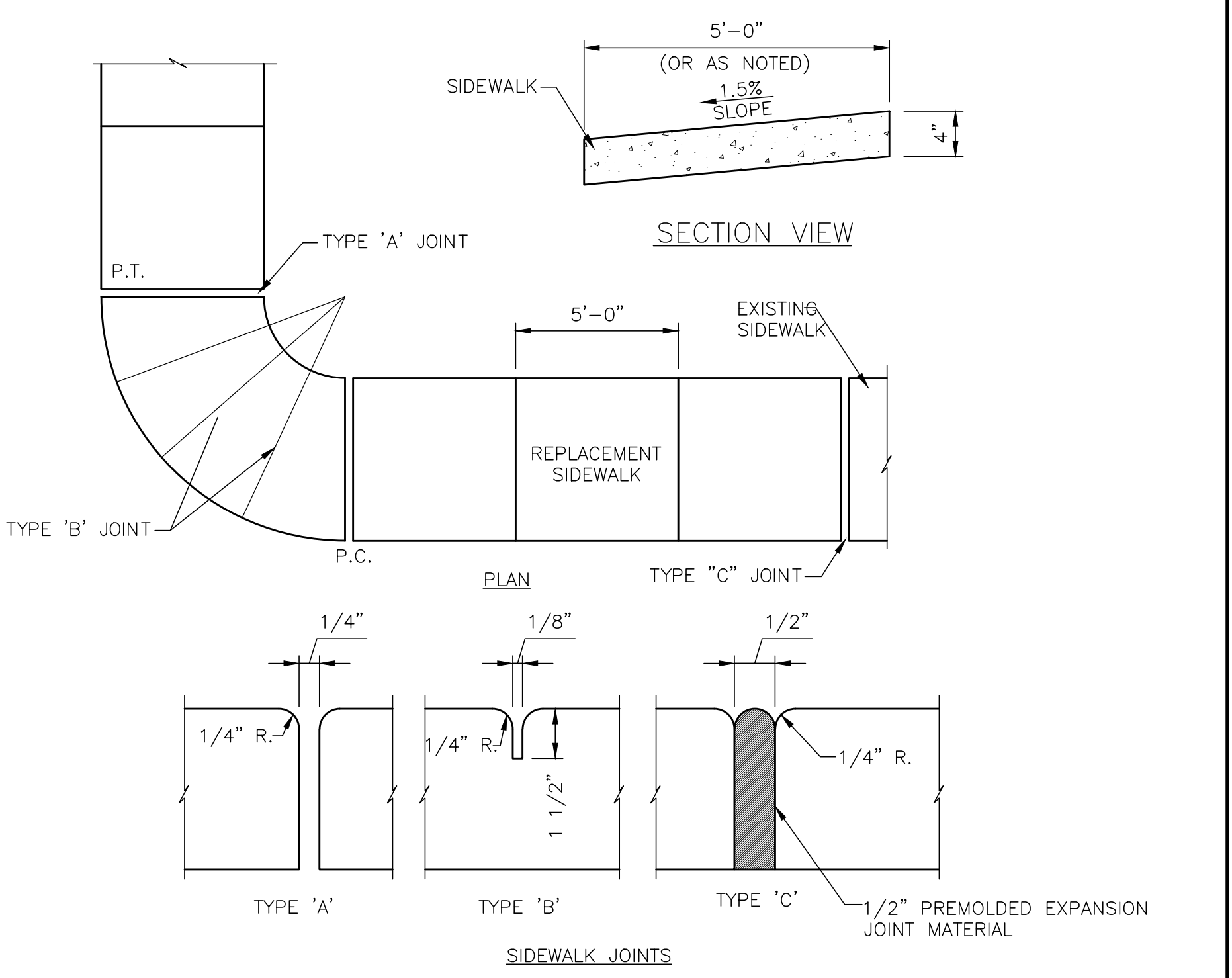


TABLE OF SIDEWALK THICKNESS - 'T'	
LOCATION	'T'
RESIDENTIAL AND OTHER AREAS	4"
AT DRIVEWAYS AND CURB RAMPS WITHIN CURB RETURNS	6"

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES.
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS. (NOT LESS THAN 4' AND NOT GREATER THAN 10')
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES, JUNCTION OF EXISTING AND NEW SIDEWALKS AT INTERVALS NOT GREATER THAN 100'.



SIDEWALK REPLACEMENT CONSTRUCTION

NOTES:

- ALL CURB RAMPS SHALL BE EMBOSSED WITH A TACTILE SURFACE PER FDOT INDEX NO. 304, SHT. 1
- SIDEWALKS CROSSING STREETS SHALL HAVE A TACTILE SURFACE FOR A MINIMUM OF 3' ADJACENT TO EACH CROSSING. TACTILE SURFACES SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE GENERAL NOTES ON FDOT INDEX NO. 304.
- THE REMAINDER OF THE DRIVEWAY SHALL BE NO GREATER THAN THE MAXIMUM PRACTICAL (14% FOR LOW VOLUME, 5% FOR HIGH VOLUME).
- 4" THICK CONCRETE SLAB (TYP.)
- 6" THICK CONCRETE SLAB AT DRIVEWAYS
- THE PROPOSED FILL SHALL BE COMPACTED IN 12" LIFTS TO 95% MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-180 AND THE ENGINEER'S TECHNICAL SPECIFICATIONS.
- ALL ORGANIC MATERIAL & DEBRIS SHALL BE REMOVED & AREA GRADED & COMPACTED PRIOR TO CONCRETE PLACEMENT.
- THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3,000 P.S.I. @ 28 DAYS.
- TYPE "A" & "B" JOINTS MAY BE SAWCUT.
- ALL SIDEWALKS AND SIDEWALK CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), FLORIDA ACCESSIBILITY CODE AND F.D.O.T. INDEX NO. 304.

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STANDARD DETAILS 2

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