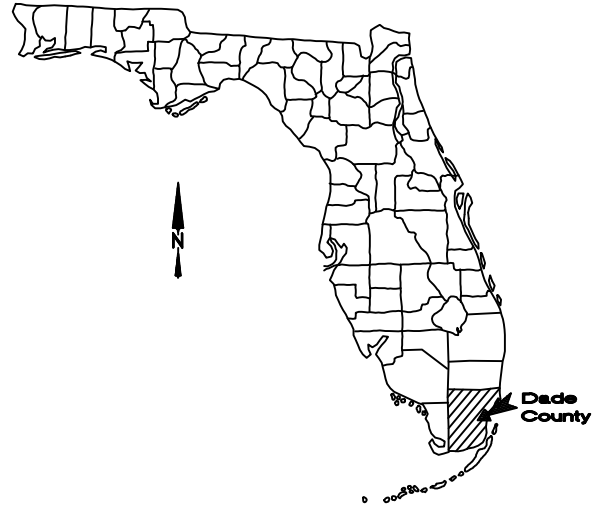


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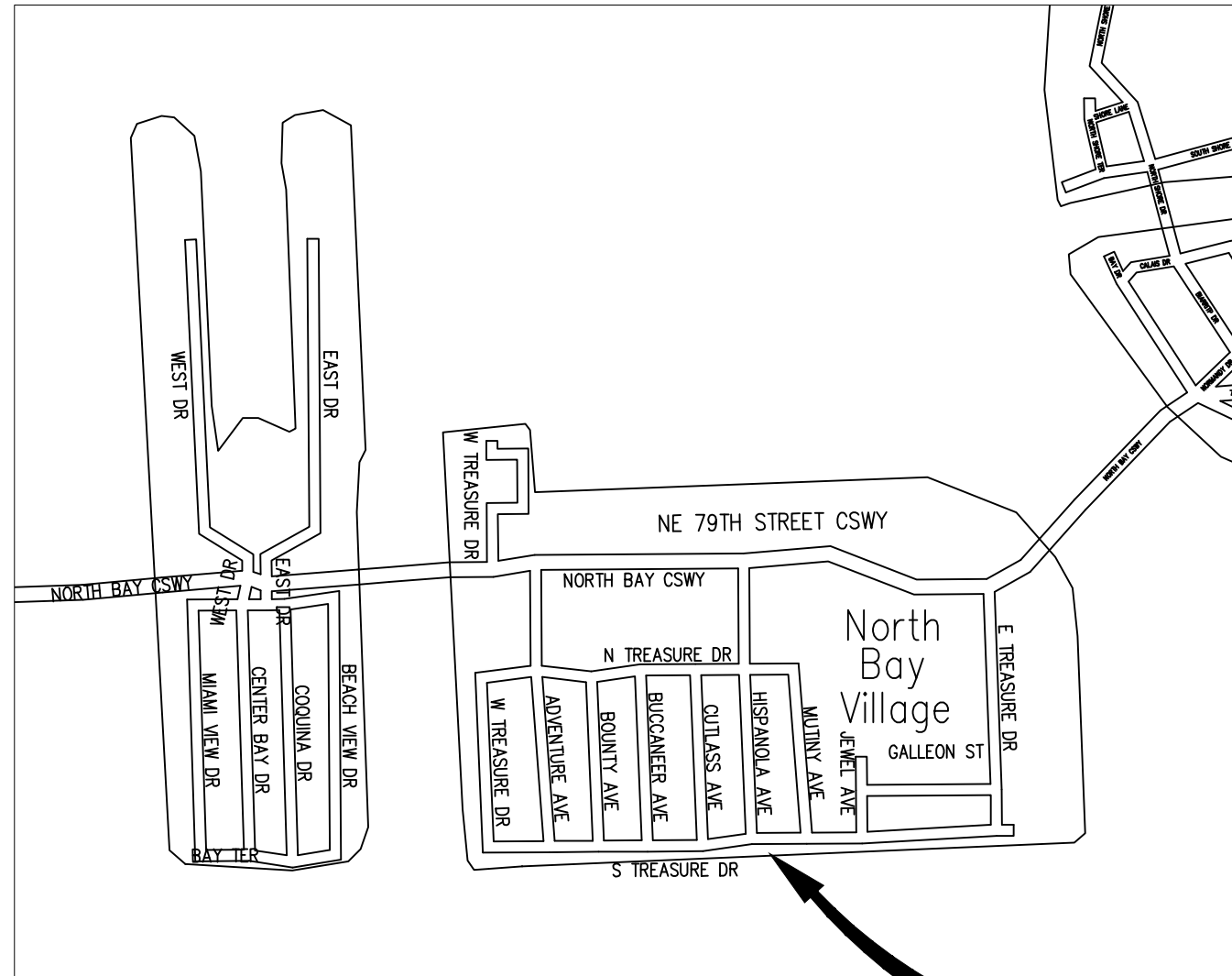


# NORTH BAY VILLAGE

MIAMI-DADE COUNTY, FLORIDA

## WATER MAIN REHABILITATION PROJECT

### FOR BIDDING



**VICINITY MAP**  
N.T.S.

**PROJECT  
LOCATION**

### SHEET INDEX

SHEET NO.	DESCRIPTION
CS	COVER SHEET
C-01	GENERAL NOTES
C-02	KEY PLAN
C-03	WATER MAIN REHABILITATION PLAN
C-04	WATER MAIN REHABILITATION PLAN
C-05	WATER MAIN REHABILITATION PLAN
C-06	WATER MAIN REHABILITATION PLAN
C-07	WATER MAIN REHABILITATION PLAN
C-08	WATER MAIN REHABILITATION PLAN
C-09	WATER MAIN REHABILITATION PLAN
C-10	WATER MAIN REHABILITATION PLAN
C-11	WATER MAIN REHABILITATION PLAN
C-12	WATER MAIN REHABILITATION PLAN
C-13	WATER MAIN REHABILITATION PLAN
C-14	WATER MAIN REHABILITATION PLAN
C-15	WATER MAIN REHABILITATION PLAN
C-16	WATER MAIN REHABILITATION PLAN

#### ELECTED OFFICIALS

CONNIE LEON-KREPS	MAYOR
JORGE GONZALES	VICE-MAYOR
DR. RICHARD CHERVONY	COMMISSIONER
ANDREANA JACKSON	COMMISSIONER
EDDIE LIM	COMMISSIONER

#### CITY OFFICIALS

FRANK ROLLASON	CITY MANAGER
RODNEY CARRERO-SANTANA	PUBLIC WORKS DIRECTOR

No.	REVISIONS	DATE	BY

## Kimley»Horn

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WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 043138025
DATE 07-27-2016
SCALE AS SHOWN
DESIGNED BY AFL
DRAWN BY AFL
CHECKED BY GRR

### WATER MAIN REHABILITATION PROJECT

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY      FLORIDA

LICENSED PROFESSIONAL
GARY R. RATAY, P.E.
46682
DATE: 07-27-2016

## COVER SHEET

SHEET NUMBER
CS

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**GENERAL NOTES**

1. CONTRACTOR TO SUBMIT MAINTENANCE OF TRAFFIC PLAN PER APPLICABLE FDOT STANDARD INDEXES FOR APPROVAL PRIOR TO START OF WORK.
2. CONNECTIONS TO EXISTING UTILITIES SHALL NOT BE MADE UNTIL ALL NECESSARY CERTIFICATIONS AND APPROVALS HAVE BEEN OBTAINED FROM THE APPROPRIATE AGENCIES. EXISTING UTILITIES MUST REMAIN IN SERVICE UNTIL NEW UTILITIES ARE READY FOR CONNECTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING PLAN THAT WILL PROVIDE PRETREATMENT OF EFFLUENT PRIOR TO DISCHARGE INTO THE EXISTING DRAINAGE SYSTEM. COST FOR DEWATERING TO BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
4. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL UTILITIES AND NOTIFICATION OF SUNSHINE STATE ONE CALL.
6. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE ENGINEERING INSPECTOR OR HIS DESIGNEE UPON REQUEST.
7. ALL CONSTRUCTION, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF M-DWASD, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FDOT AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
8. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
9. EXISTING UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES WITHIN THE AREAS OF CONSTRUCTION.
10. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE REPLACEMENT LOCATIONS.
11. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
12. THE CONTRACTOR SHALL SUPPORT ANY UTILITIES UNCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY UTILITY DAMAGED DURING CONSTRUCTION AT NO COST TO THE VILLAGE.
13. CONTRACTOR SHALL MAINTAIN REQUIRED COVER AND UTILITY SEPARATION AS SHOWN AND SPECIFIED FOR ALL UTILITY IMPROVEMENTS.
14. CONTRACTOR SHALL PROVIDE COMPLETE FINAL RECORD DRAWINGS TO THE OWNER AS SPECIFIED. ALL AS-BUILT MEASUREMENTS AND ELEVATIONS TO BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
15. ALL NEW PIPING AND WATER SYSTEM COMPONENTS MUST BE RESTRAINED AS SPECIFIED.
16. ALL ROADWAY AND OTHER AREAS OF THE PROJECT SITE IMPACTED BY CONSTRUCTION MUST BE RESTORED TO EQUAL OR BETTER CONDITION AND IN COMPLIANCE WITH THE EXISTING NORTH BAY VILLAGE CONTRACT.

**WATER MAIN REPLACEMENT NOTES**

1. THE WATER MAIN PLANS ARE BASED ON AN EXISTING SURVEY AND CONSIDERED SCHEMATIC. EXISTING UTILITIES SUCH AS WASTEWATER, STORMWATER, ELECTRIC, GAS, PHONE, CABLE, ETC. ARE NOT SHOWN.
2. THE PROJECT INCLUDES DETERMINING WATER LEAK LOCATIONS THROUGHOUT THE WATER DISTRIBUTION SYSTEM BY MEANS OF AN ELECTRONIC LEAK DETECTION DEVICE. THE ACTUAL SECTIONS OF WATER MAIN REPLACEMENT WILL BE A FUNCTION OF THAT TESTING.
3. THE INTENT WILL BE TO INSTALL PARALLEL SECTIONS OF WATER MAIN OF THE SAME SIZE IN ALL REPLACEMENT LOCATIONS. A WATER MAIN REPLACEMENT APPROACH WITH ADJUSTMENTS FOR ALL EXISTING UTILITIES AND CONNECTION POINTS FOR EACH REPLACEMENT LOCATION WILL BE PROVIDED BY THE CONTRACTOR AND COORDINATED WITH THE VILLAGE PRIOR TO INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL PRESSURE TESTING AND DISINFECTION REQUIREMENTS AT ALL REPLACEMENT LOCATIONS, BUT REQUIREMENTS MAY VARY BASED ON THE ACTUAL LENGTH AND TYPE OF WATER MAIN WORK COMPLETED.
5. ALL WATER SERVICE CONNECTIONS IMPACTED BY THE WATER MAIN REPLACEMENTS WILL REQUIRE CONNECTION TO THE NEW SECTIONS OF WATER MAIN.
6. ALL AIR RELEASE VALVES (ARV'S) IMPACTED BY THE WATER MAIN REPLACEMENTS WILL REQUIRE REPLACEMENT. THE ARV'S SHALL BE AUTOMATIC OPERATION TYPE AND INSTALLED IN A CONCRETE VAULT WITH MANHOLE COVER. MDWASD DETAIL FOR AUTOMATIC WASTEWATER ARV IS PROVIDED FOR REFERENCE ONLY. AUTOMATIC ARV'S TO BE SUITABLE FOR USE WITH POTABLE WATER.
7. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE ALL EXISTING UTILITIES, PREPARE THE REPLACEMENT APPROACH, INSTALL THE NEW SECTION OF WATER MAIN/WATER SYSTEM COMPONENT, CONNECT TO THE EXISTING SYSTEM AS NEEDED, TEST THE NEW UTILITY, AND RESTORE THE AREA AT EACH WATER MAIN SECTION/COMPONENT REPLACEMENT LOCATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED MATERIAL FOR THE PROJECT AND SHALL NOT RESULT IN ANY ADDITIONAL COST TO THE VILLAGE.
8. FIRE HYDRANT AND ISOLATION VALVE REPLACEMENTS WILL BE DETERMINED BY THE LEAK DETECTION TESTING PROCESS OR BASED ON KNOWN OPERATIONAL ISSUES AS DIRECTED BY THE VILLAGE.
9. REFERENCE MEASUREMENT AND PAYMENT SECTION 01150 FOR ADDITIONAL PROJECT/CONSTRUCTION INFORMATION.

**DERM NOTES ON WATER-SEWER INSTALLATION (NOT PART OF M-DWASD NOTES FOR APPROVAL)**

1. A HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER MAINS. WHEN THE 10 FEET HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, THE SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH SLIP-ON OR MECHANICAL JOINTS AND PRESSURE TESTED AT 150 PSI.
2. A VERTICAL DISTANCE OF AT LEAST 12 INCHES SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS. THE SEWER SHALL BE A DUCTILE IRON SINGLE 20 FEET PIPE LENGTH CENTERED ON THE CROSSING IF THE MINIMUM VERTICAL DISTANCE IS LESS THAN 12 INCHES OR IF THE SEWER IS INSTALLED ABOVE THE WATER MAIN (REGARDLESS OF SEPARATION).
3. IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING IF THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO A COMPLETE EVALUATION OF THE CONDITIONS.
4. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELL FIELD PROTECTION AREA SHALL BE FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR RESIDENTIAL LAND USE AND TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR NONRESIDENTIAL LAND USE.
5. FORCE MAIN SEWERS CONSTRUCTED IN A PUBLIC WELL FIELD PROTECTION AREA SHALL BE EITHER DUCTILE IRON OR REINFORCED CONCRETE PRESSURE SEWER PIPES. FOR DUCTILE IRON PIPE EXFILTRATION RATE SHALL NOT BE GREATER THAN THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI. FOR REINFORCED CONCRETE PRESSURE SANITARY SEWER FORCE MAIN EXFILTRATION RATE SHALL NOT BE GREATER THAN HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI.
6. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
7. ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE UTILITY PIPES.
8. WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
9. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS. ANY DEVIATION FROM NOTES 6, 7 AND 8 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND SEWER UTILITY.
10. A NON-RESETTING ELAPSE TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL OPERATING HOURS OF THE STATION.

**NOTES BY M-DWASD FOR PROPOSED REMOVAL OF UTILITY LINE**

1. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN IN EFFECT AND IN SERVICE, UNTIL SUCH TIME WHEN PROPOSED REPLACING UTILITIES HAVE BEEN INSTALLED, TESTED, ACCEPTED, AND READY FOR CONNECTION TO THE EXISTING SYSTEM. AFTER PROPOSED UTILITIES ARE CONNECTED TO THE EXISTING SYSTEM AND IN SERVICE, THE EXISTING UTILITIES ARE TO BE ABANDONED IN PLACE OR REMOVED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL PIPE ABANDONED IN PLACE WILL BE CUT, CAPPED, AND RESTRAINED.
3. FOR RELOCATION OF EXIST. WATER SERVICES TO THE NEW SECTIONS OF WATER MAIN, CONTRACTOR TO COORDINATE WITH THE VILLAGE.

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**WATER MAIN  
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 PREPARED FOR  
**NORTH BAY VILLAGE**  
 MIAMI-DADE COUNTY FLORIDA

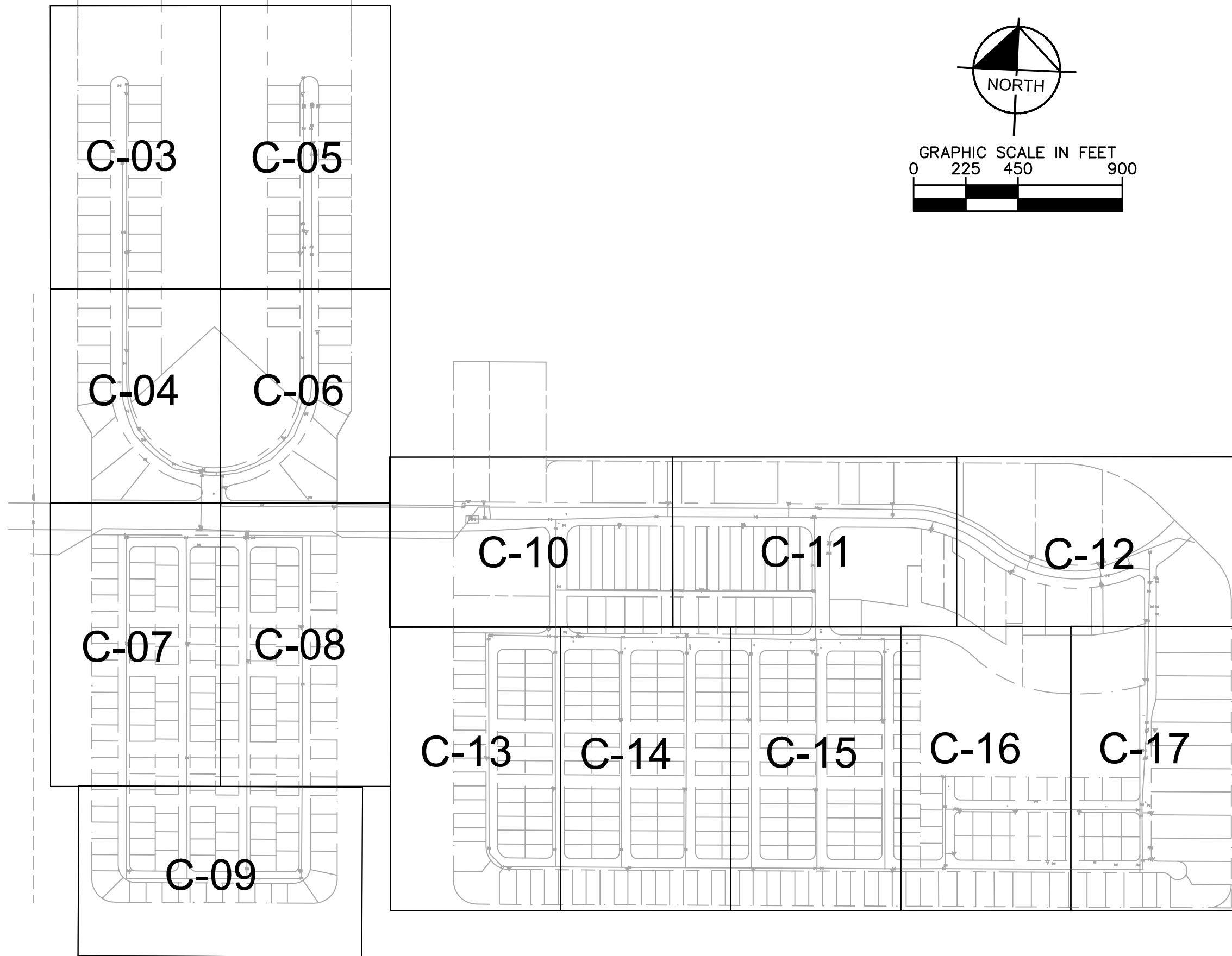
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 46682  
 DATE: 07-27-2016

GENERAL NOTES

SHEET NUMBER  
C-01

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SCALE	AS SHOWN
DESIGNED BY	AFL
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**WATER MAIN  
 REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**





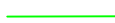


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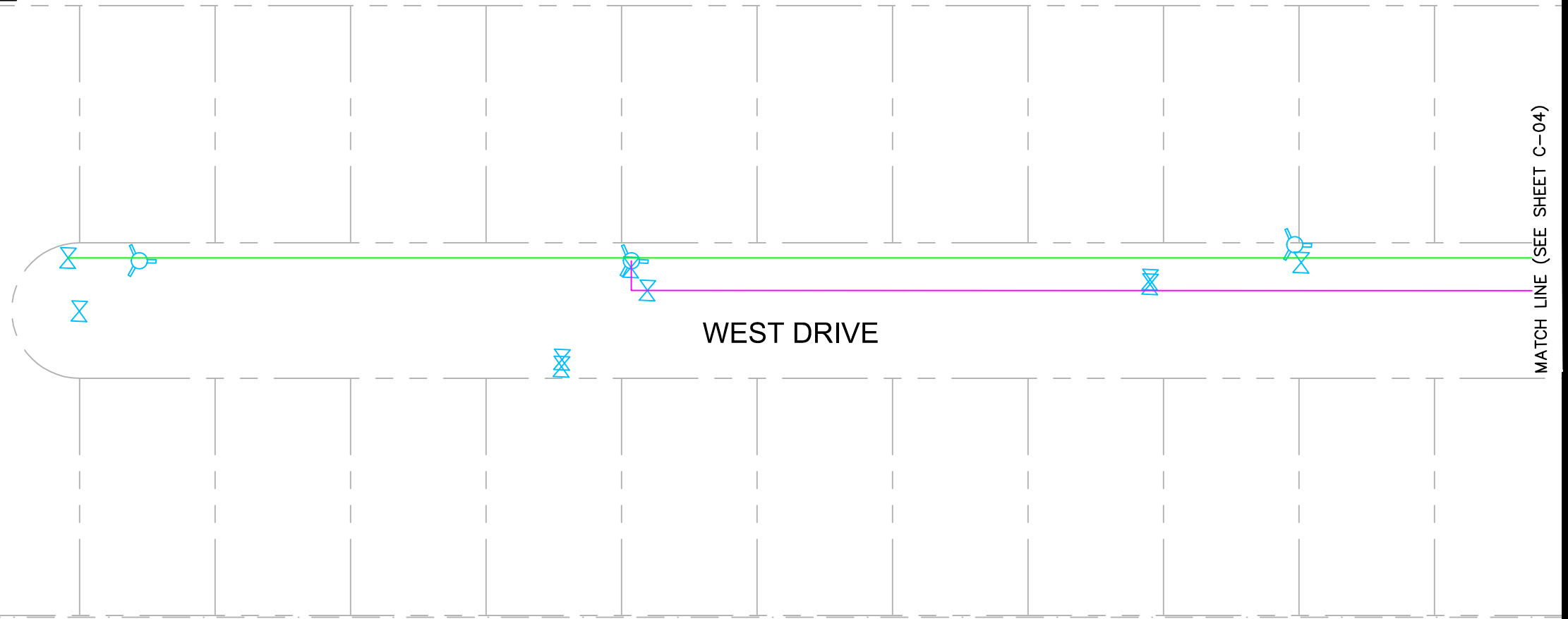
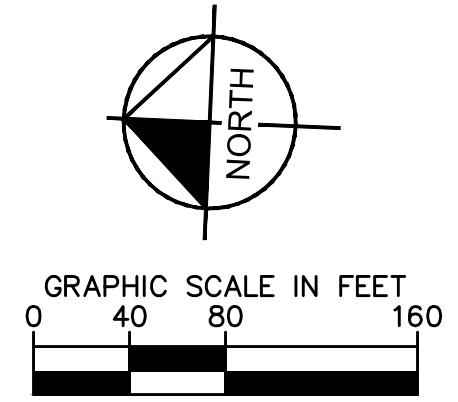
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LEGEND	
	EXIST. WATER VALVE
	EXIST. FIRE HYDRANT
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. 12" WATER MAIN
	EXIST. 30" WATER MAIN (OWNED BY OTHERS)

NOTES:  
 WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.  
 SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



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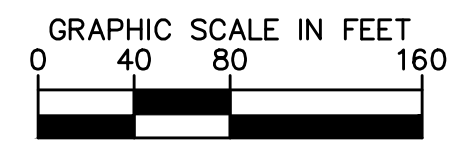
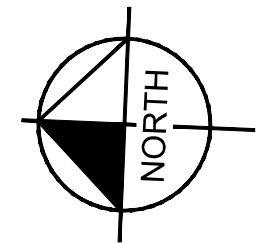
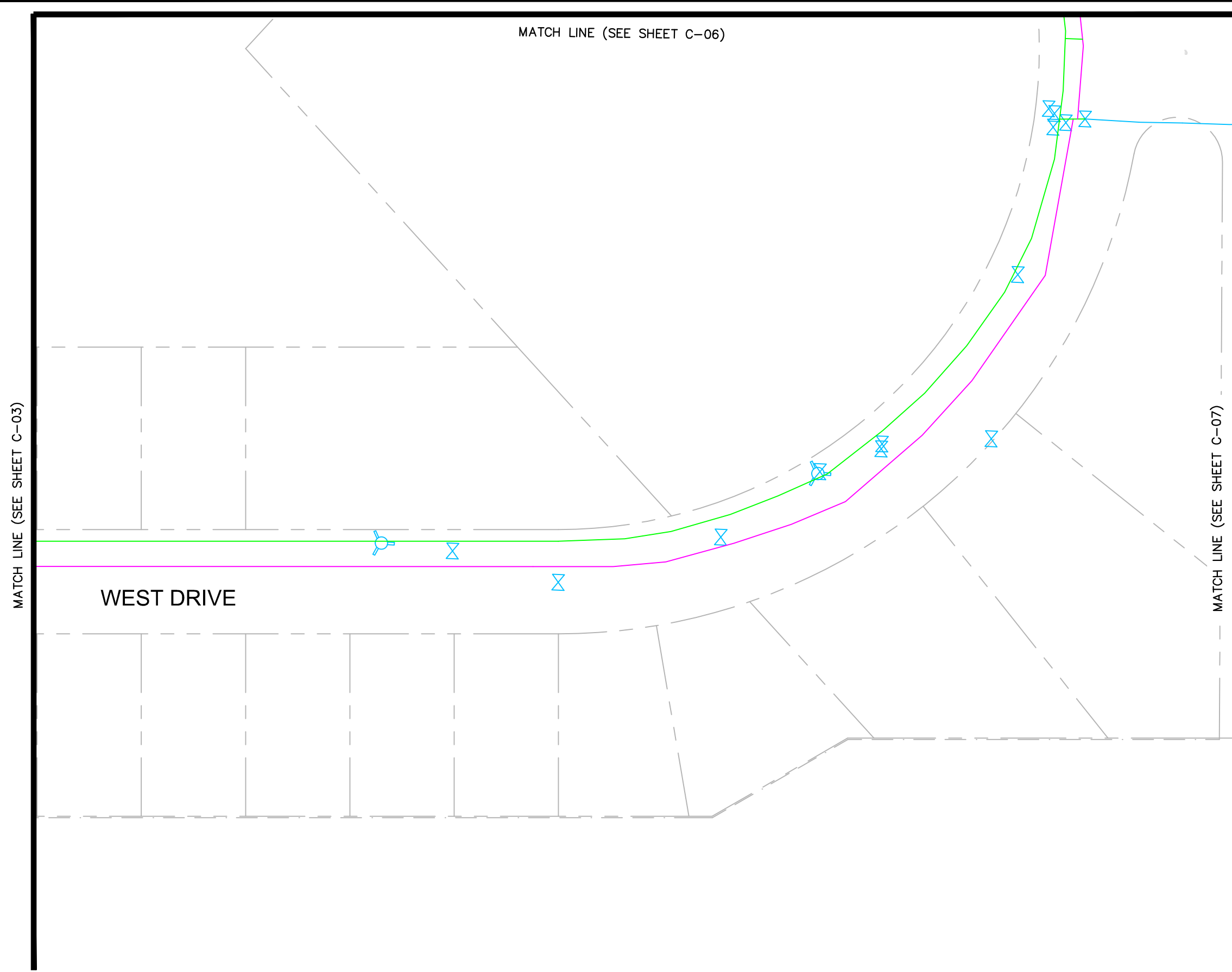
**WATER MAIN REHABILITATION PROJECT**  
 PREPARED FOR  
**NORTH BAY VILLAGE**  
 MIAMI-DADE COUNTY FLORIDA

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**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-03**

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**NOTES:**

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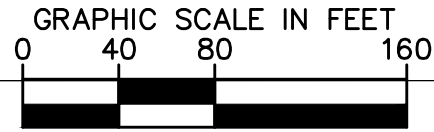
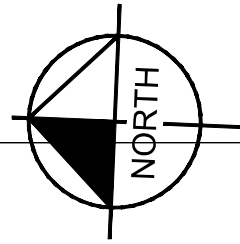
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	46682
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**WATER MAIN REHABILITATION PLAN**

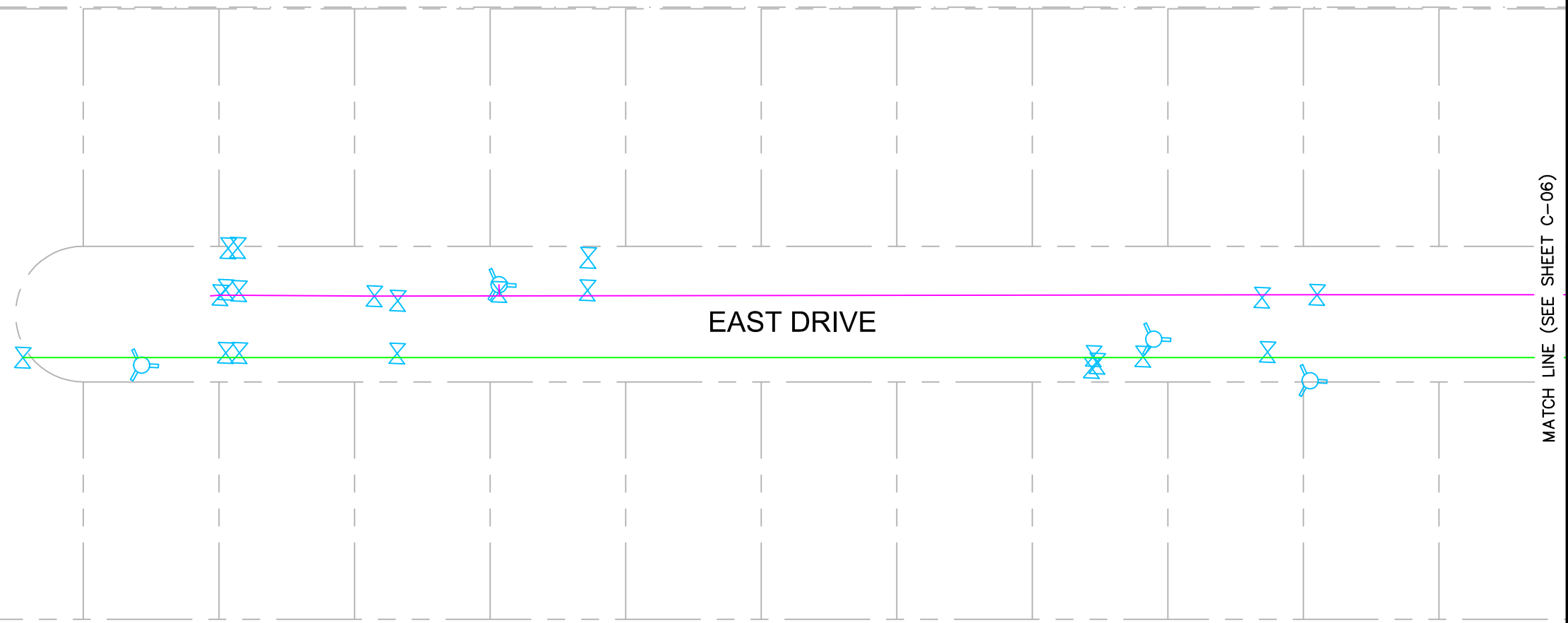
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 SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



EAST DRIVE

MATCH LINE (SEE SHEET C-06)

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**WATER MAIN REHABILITATION PROJECT**  
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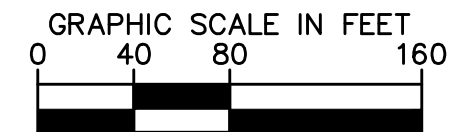
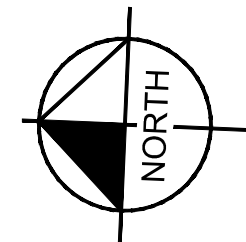
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**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER	C-05
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MATCH LINE (SEE SHEET C-05)



**LEGEND**

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- EXIST. FIRE HYDRANT
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SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.

MATCH LINE (SEE SHEET C-08)

MATCH LINE (SEE SHEET C-04)

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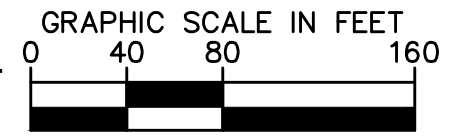
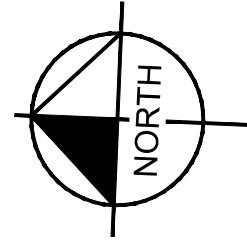
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**WATER MAIN REHABILITATION PLAN**

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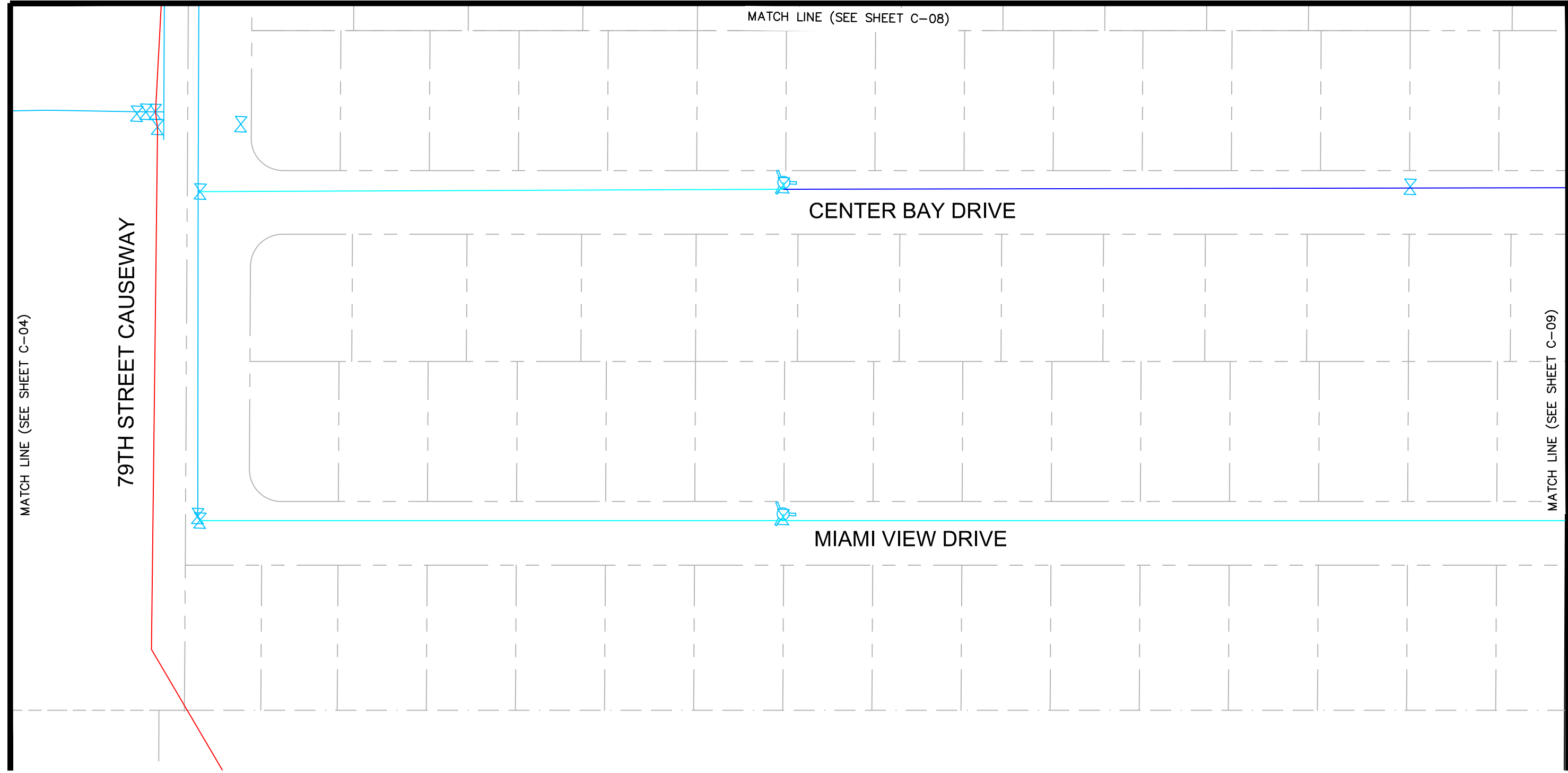
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	EXIST. FIRE HYDRANT
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. 12" WATER MAIN
	EXIST. 30" WATER MAIN (OWNED BY OTHERS)

NOTES:  
 WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.  
 SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



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 PHONE: 954-535-5100 FAX: 954-739-2247  
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT	043138025
DATE	07-27-2016
SCALE	AS SHOWN
DESIGNED BY	AFL
DRAWN BY	AFL
CHECKED BY	GRR

**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL	GARY R. RATAY, P.E.
	46682
	DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER	C-07
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







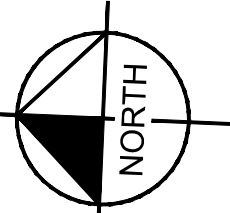
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MATCH LINE (SEE SHEET C-10)

NOTES:  
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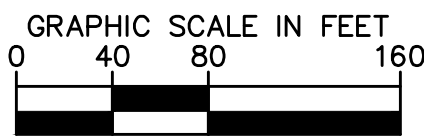
**LEGEND**

-  EXIST. WATER VALVE
-  EXIST. FIRE HYDRANT
-  EXIST. 4" WATER MAIN
-  EXIST. 6" WATER MAIN
-  EXIST. 8" WATER MAIN
-  EXIST. 12" WATER MAIN
-  EXIST. 30" WATER MAIN (OWNED BY OTHERS)



NORTH

GRAPHIC SCALE IN FEET



MATCH LINE (SEE SHEET C-06)

79TH STREET CAUSEWAY

BEACH VIEW DRIVE

MATCH LINE (SEE SHEET C-09)

COQUINA DRIVE

MATCH LINE (SEE SHEET C-07)

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**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
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MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL

GARY R. RATAY, P.E.

46682

DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

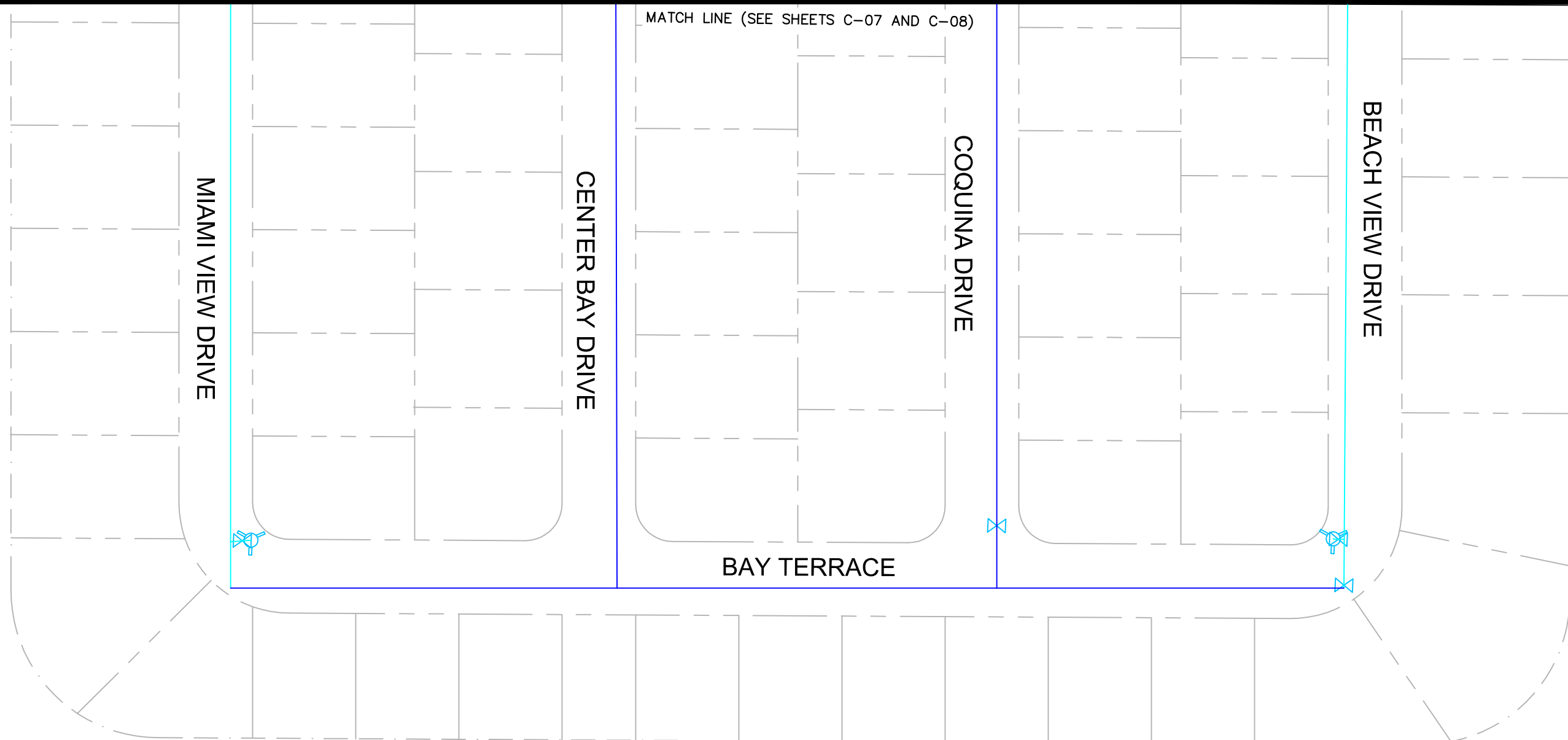
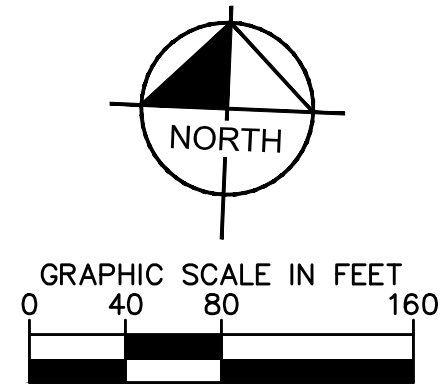
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**C-08**

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LEGEND	
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	EXIST. FIRE HYDRANT
	EXIST. 4" WATER MAIN
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	EXIST. 8" WATER MAIN
	EXIST. 12" WATER MAIN
	EXIST. 30" WATER MAIN (OWNED BY OTHERS)

NOTES:  
 WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.  
 SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



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KHA PROJECT	043138025
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SCALE	AS SHOWN
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CHECKED BY	GRR

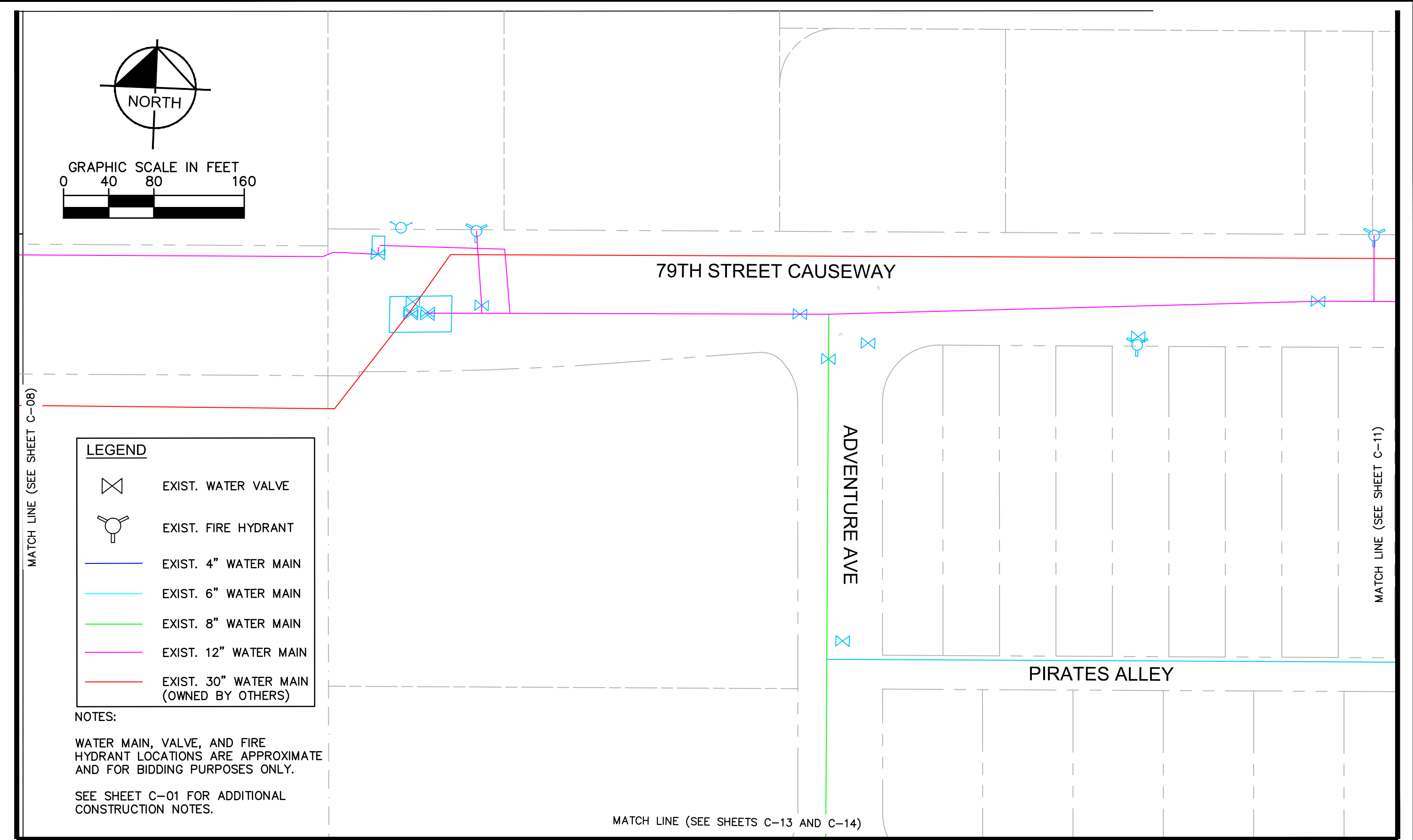
**WATER MAIN REHABILITATION PROJECT**  
 PREPARED FOR  
**NORTH BAY VILLAGE**  
 MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL	GARY R. RATAY, P.E.
	46682
	DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-09**

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SCALE	AS SHOWN
DESIGNED BY	AFL
DRAWN BY	AFL
CHECKED BY	GRR

**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

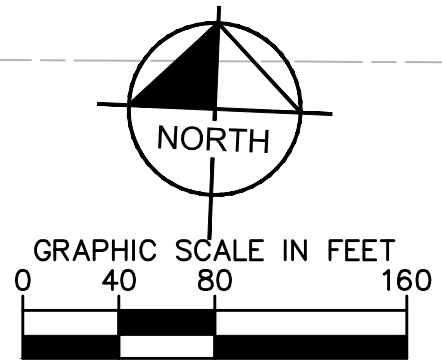
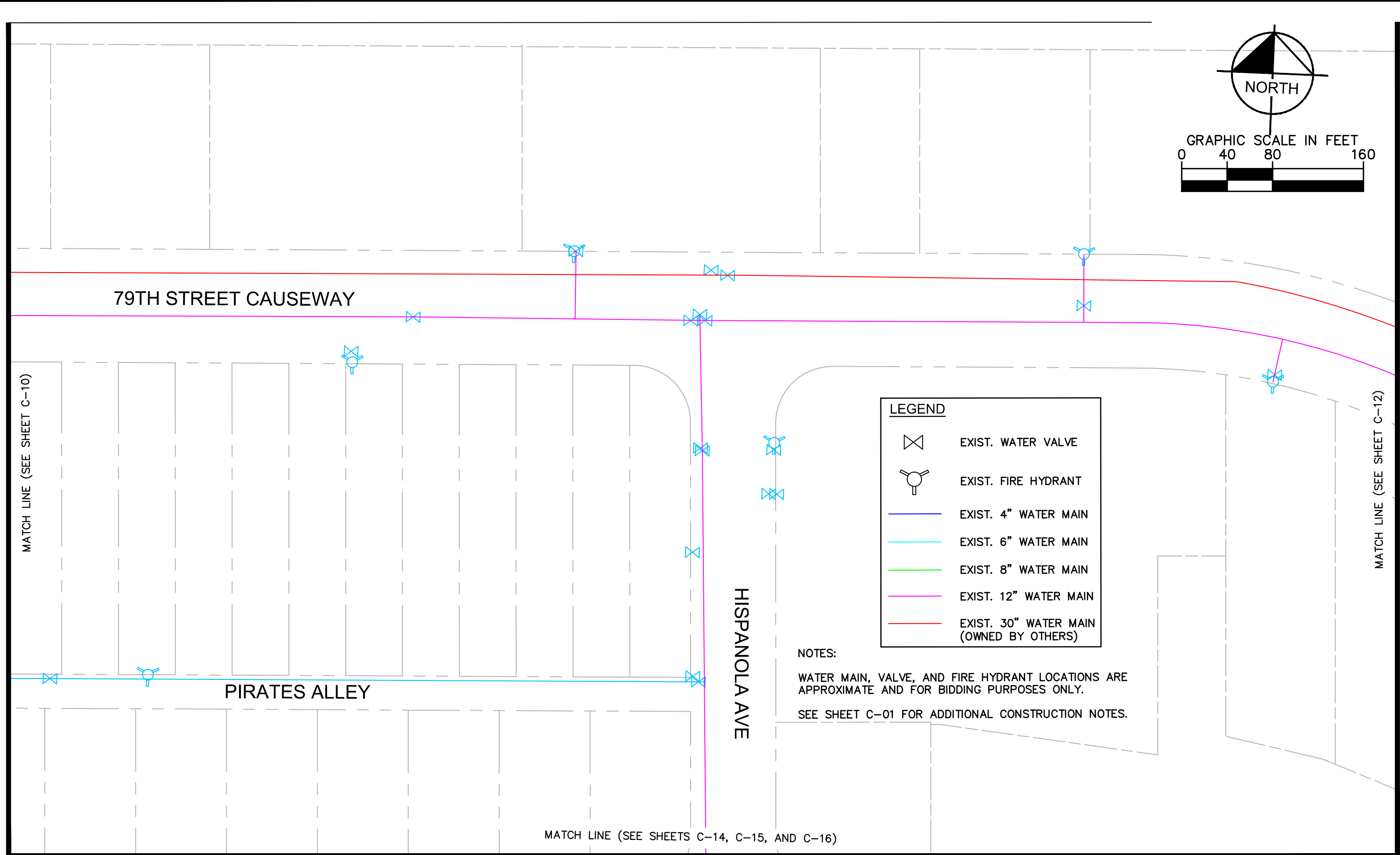
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**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-10**

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LEGEND	
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	EXIST. FIRE HYDRANT
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. 12" WATER MAIN
	EXIST. 30" WATER MAIN (OWNED BY OTHERS)

NOTES:  
 WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.  
 SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.

MATCH LINE (SEE SHEETS C-14, C-15, AND C-16)

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KHA PROJECT	043138025
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CHECKED BY	GRR

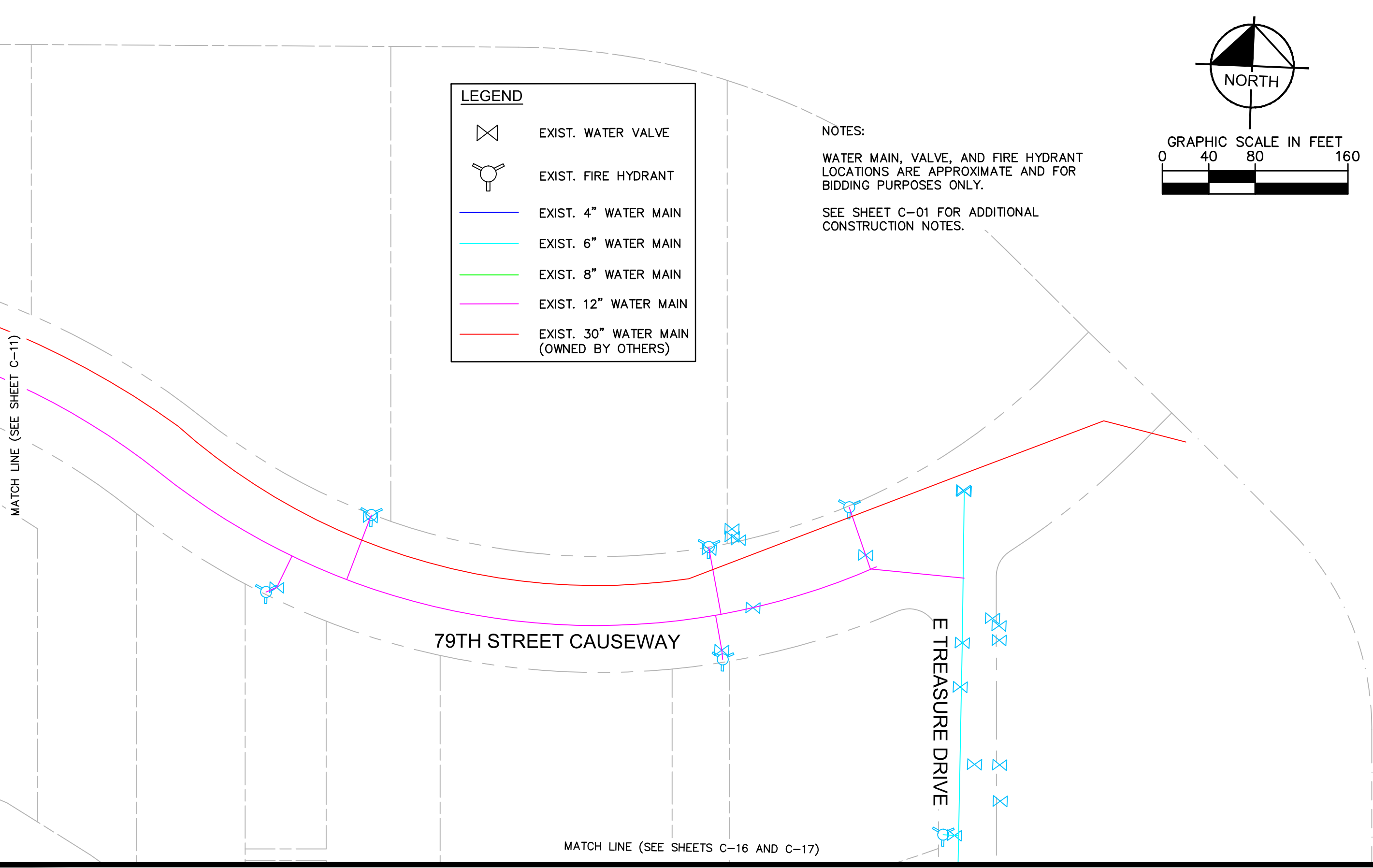
**WATER MAIN REHABILITATION PROJECT**  
 PREPARED FOR  
**NORTH BAY VILLAGE**  
 MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL	GARY R. RATAY, P.E.
	46682
	DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-11**

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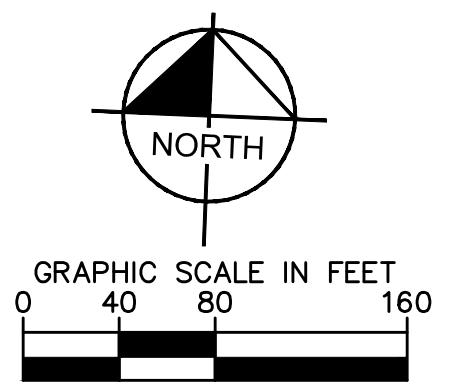


LEGEND	
	EXIST. WATER VALVE
	EXIST. FIRE HYDRANT
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
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NOTES:

WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.

SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



MATCH LINE (SEE SHEET C-11)

MATCH LINE (SEE SHEETS C-16 AND C-17)

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KHA PROJECT	043138025
DATE	07-27-2016
SCALE	AS SHOWN
DESIGNED BY	AFL
DRAWN BY	AFL
CHECKED BY	GRR

**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL	GARY R. RATAY, P.E.
	46682
	DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-12**

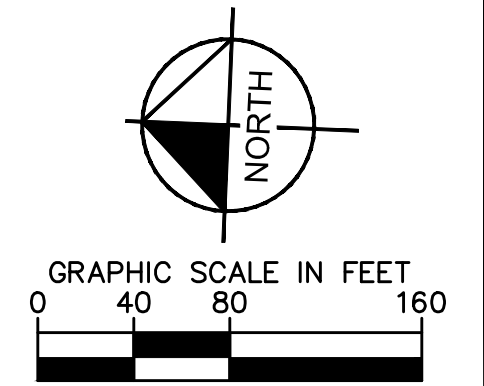
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	EXIST. 12" WATER MAIN
	EXIST. 30" WATER MAIN (OWNED BY OTHERS)

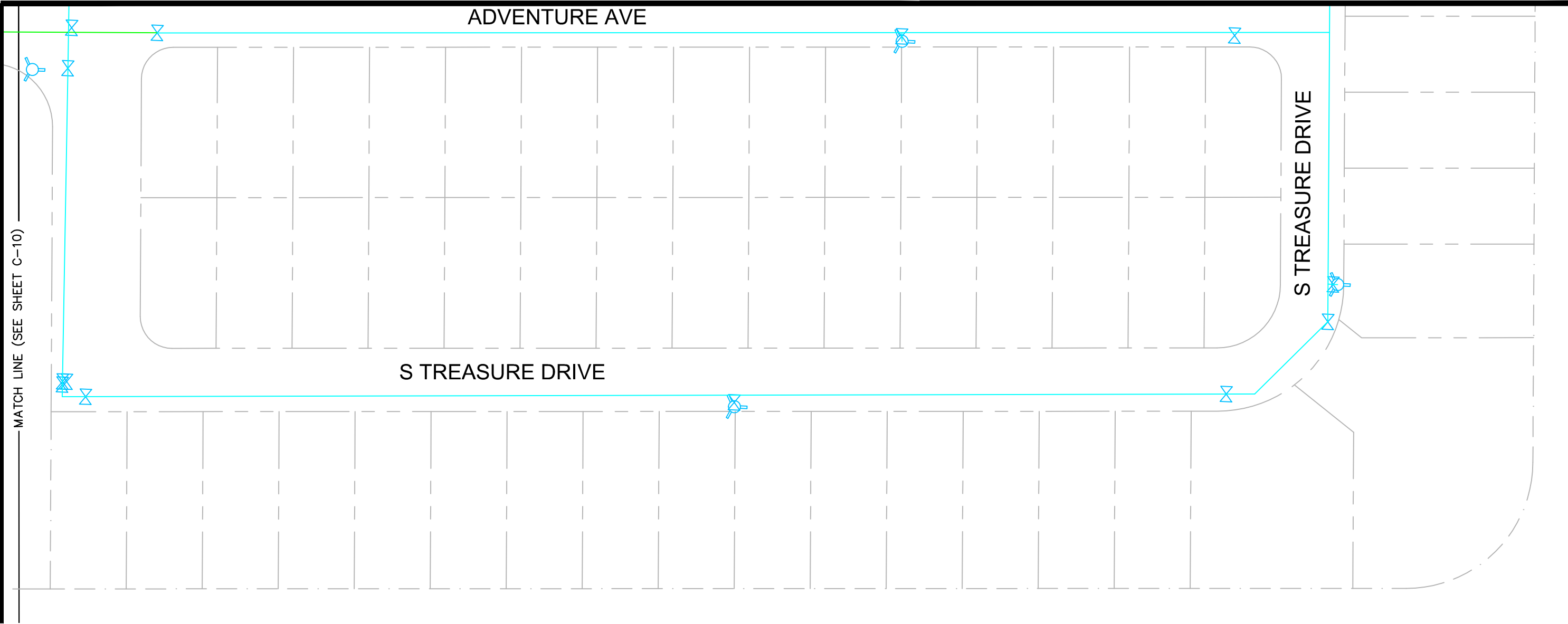
NOTES:

WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.

SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.



MATCH LINE (SEE SHEET C-14)



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KHA PROJECT	043138025
DATE	07-27-2016
SCALE	AS SHOWN
DESIGNED BY	AFL
DRAWN BY	AFL
CHECKED BY	GRR

**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL

GARY R. RATAY, P.E.

46682

DATE: 07-27-2016

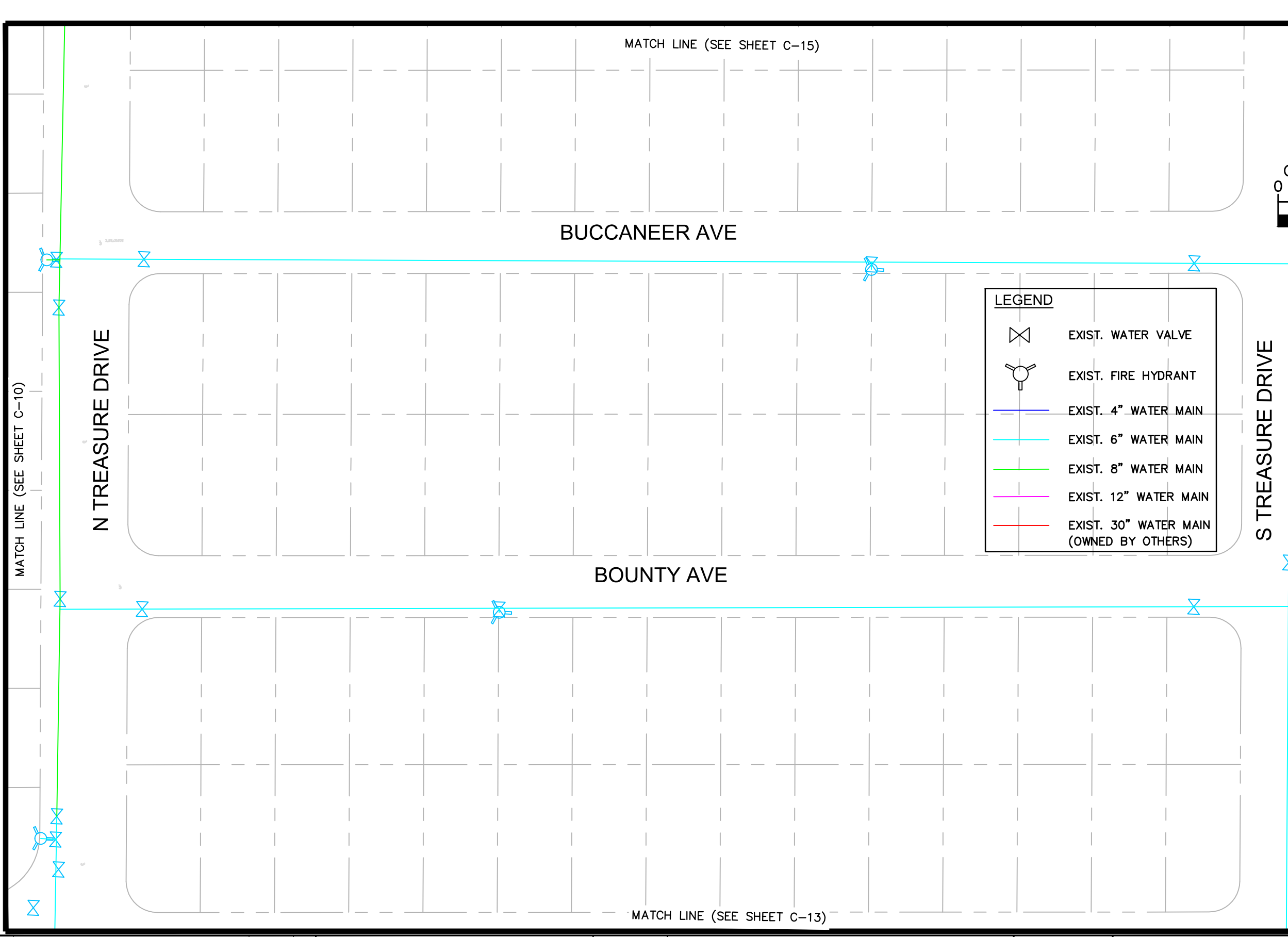
**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER

**C-13**

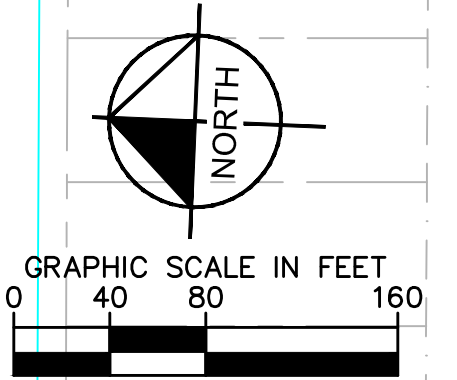
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**LEGEND**

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NOTES:

WATER MAIN, VALVE, AND FIRE HYDRANT LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY.

SEE SHEET C-01 FOR ADDITIONAL CONSTRUCTION NOTES.

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WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 043138025
DATE 07-27-2016
SCALE AS SHOWN
DESIGNED BY AFL
DRAWN BY AFL
CHECKED BY GRR

WATER MAIN  
REHABILITATION PROJECT

PREPARED FOR  
NORTH BAY VILLAGE

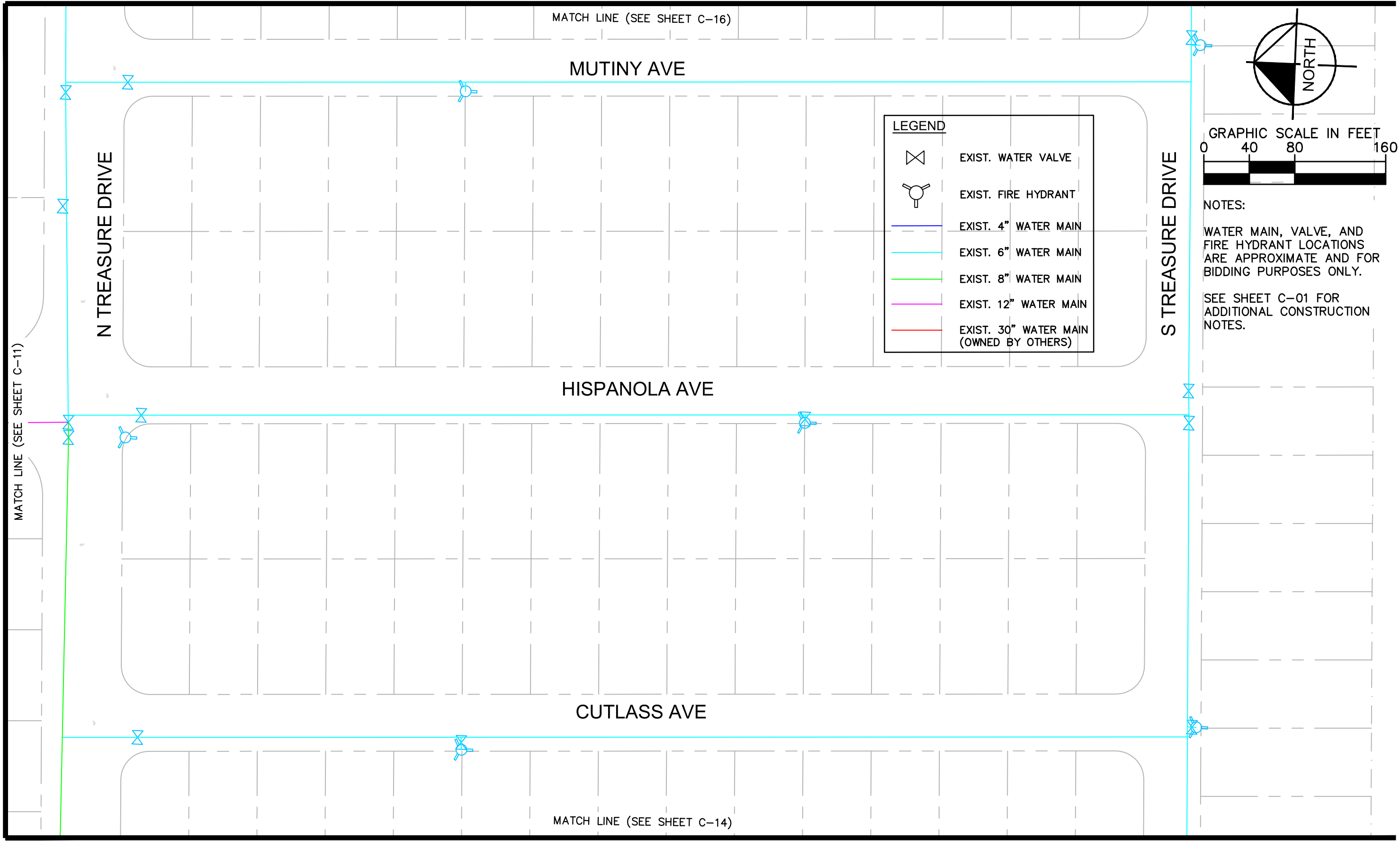
FLORIDA

LICENSED PROFESSIONAL
GARY R. RATAY, P.E.
46682
DATE: 07-27-2016

WATER MAIN REHABILITATION  
PLAN

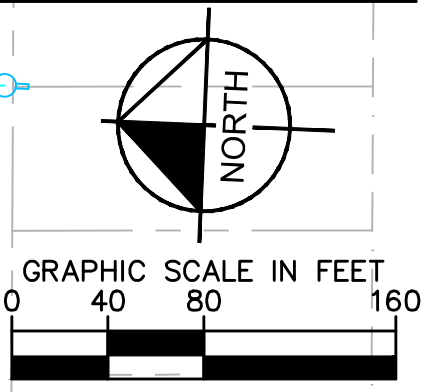
SHEET NUMBER
C-14

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**NOTES:**

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KHA PROJECT	043138025
DATE	07-27-2016
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DESIGNED BY	AFL
DRAWN BY	AFL
CHECKED BY	GRR

**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY  
FLORIDA

LICENSED PROFESSIONAL

GARY R. RATAY, P.E.

46682

DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER

**C-15**

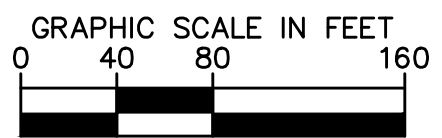
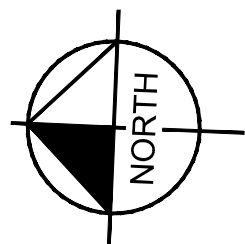


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MATCH LINE (SEE SHEET C-12)

MATCH LINE (SEE SHEET C-17)

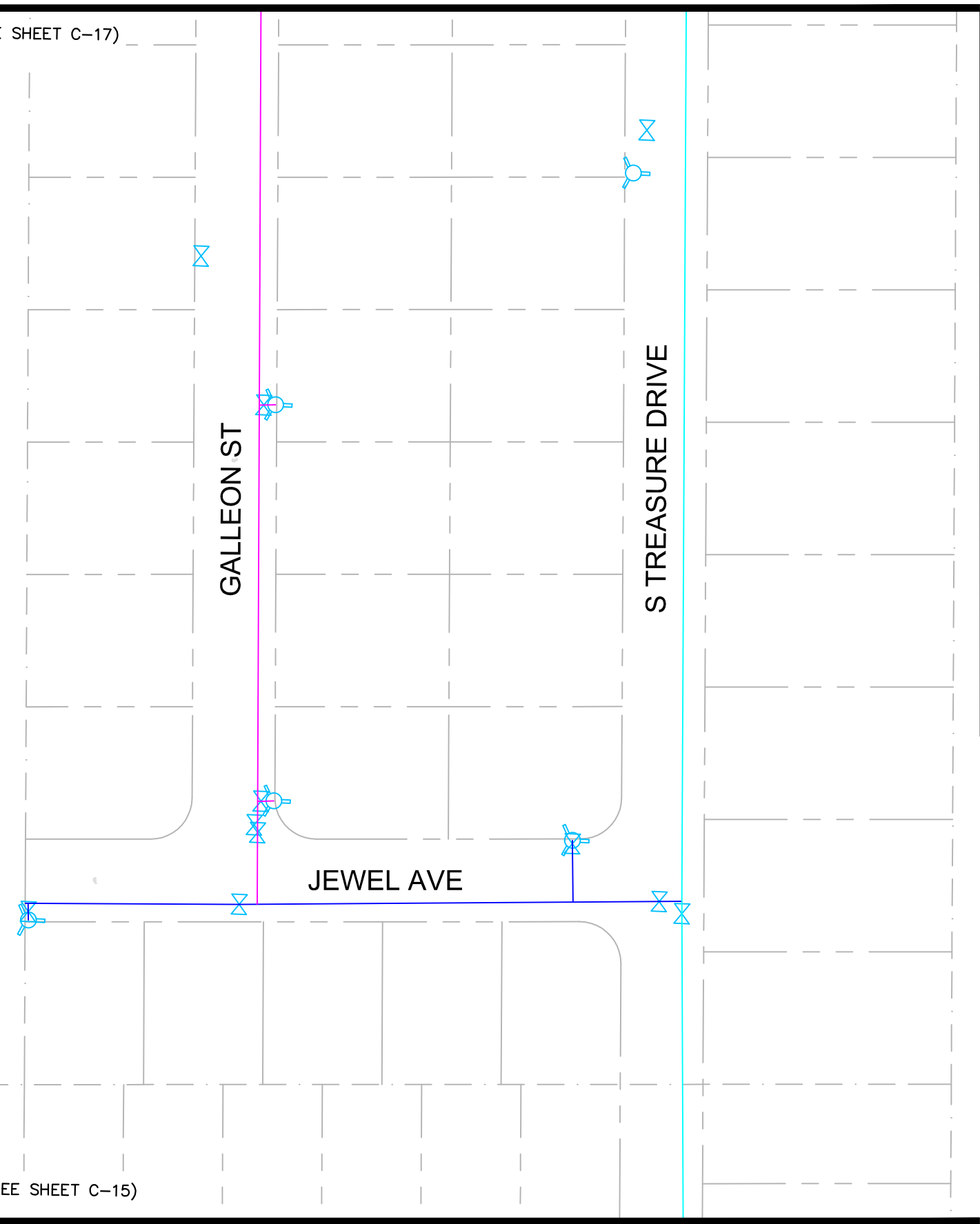
MATCH LINE (SEE SHEET C-15)



LEGEND	
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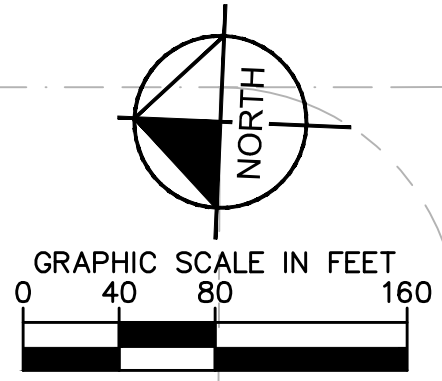
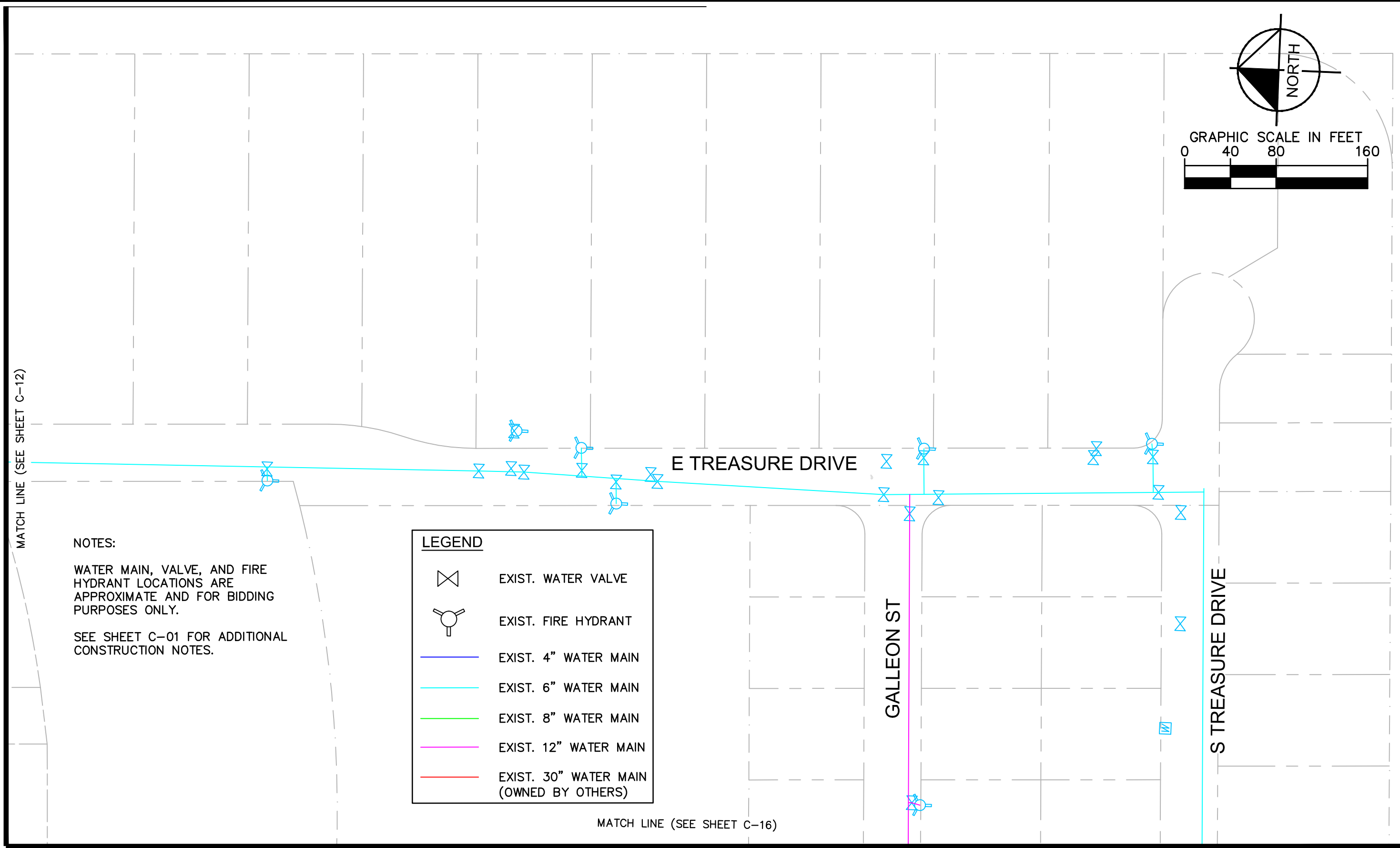
**WATER MAIN REHABILITATION PROJECT**  
PREPARED FOR  
**NORTH BAY VILLAGE**  
MIAMI-DADE COUNTY  
FLORIDA

LICENSED PROFESSIONAL  
GARY R. RATAY, P.E.  
46682  
DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER  
**C-16**

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MATCH LINE (SEE SHEET C-16)

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**WATER MAIN REHABILITATION PROJECT**

PREPARED FOR  
**NORTH BAY VILLAGE**

MIAMI-DADE COUNTY FLORIDA

LICENSED PROFESSIONAL

GARY R. RATAY, P.E.

46682

DATE: 07-27-2016

**WATER MAIN REHABILITATION PLAN**

SHEET NUMBER

**C-17**