

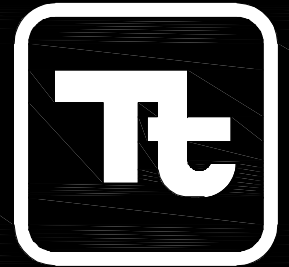
THE CITY OF NAPLES

ROYAL HARBOR WATER SYSTEM IMPROVEMENTS

PHASE 1

EXHIBIT A - Royal Harbor Bid Drawings - Dimensional

10600 CHEVROLET WAY, SUITE 300
 ESTERO, FL 33928
 PHONE: 239.390.1467 FAX: 239.390.1769



TETRA TECH

www.tetratech.com

PROJECT LOCATION:

ROYAL HARBOR AREA

CLIENT INFORMATION:

CITY OF NAPLES
 735 EIGHTH STREET SOUTH
 NAPLES, FL 34102

Tt PROJECT No.:

200-08516-14002

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

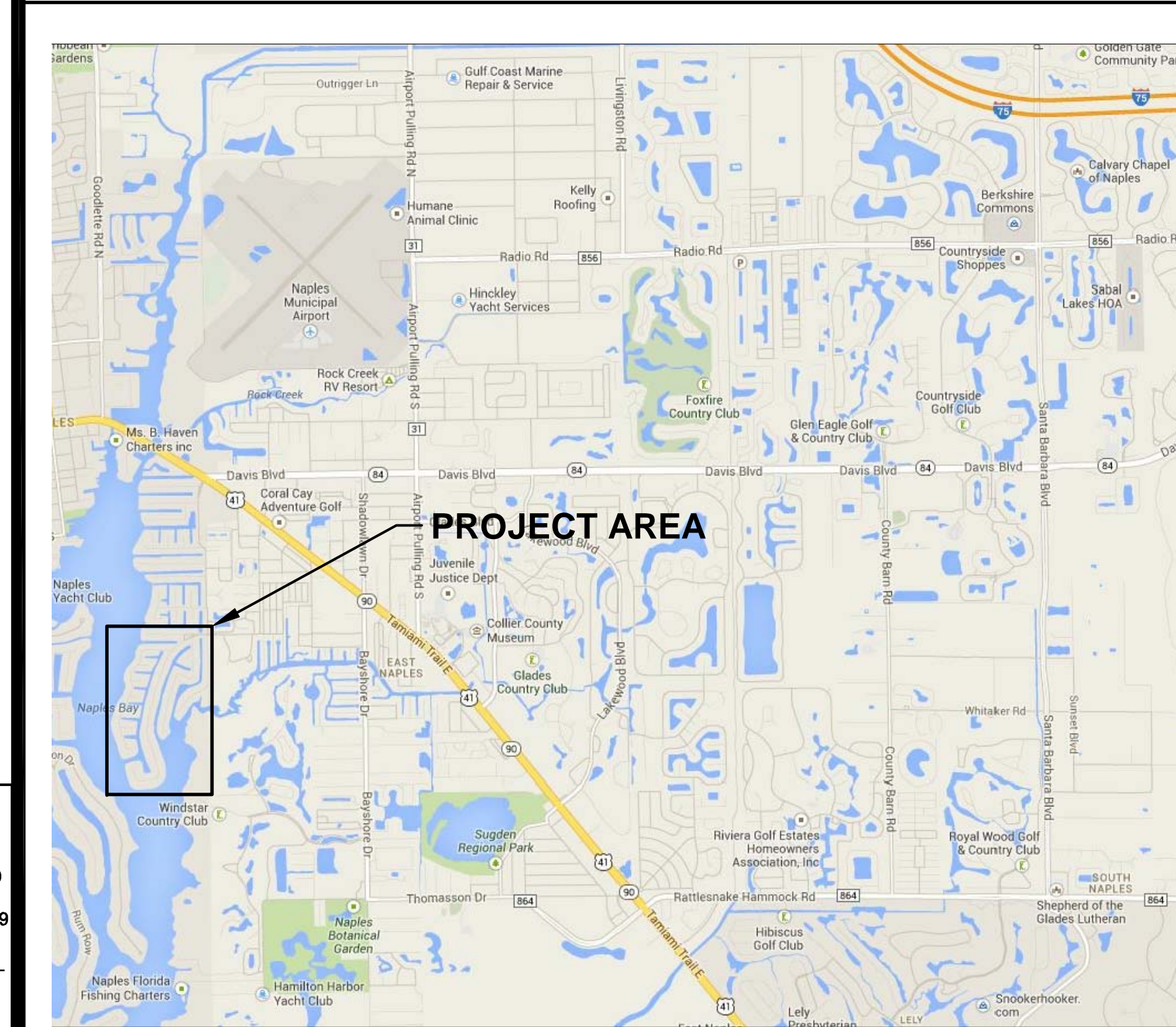
Replace approximately 14,700 LF of asbestos cement (AC) water mains within the Royal Harbor area with 4-inch and 8-inch PVC water mains in order to meet current and projected fire flow requirements. In addition to the replacement of the water main, two (2) 10-inch HDPE directional drills will be installed underneath the canal to "loop" the system. All piping will be installed within the City Right-of-way and easements.

Additionally included in Phase I is the installation of approximately 950 LF of 4-inch PVC force main to replace deteriorating discharge force main from the City's Lift Station. The work will require cutting and capping of the existing force main as well as coring a new manhole penetration with rubber boot system.

ISSUED: APRIL, 2014

BID SET

VICINITY MAP:



Brett T. Messner, P.E.
 P.E. No. 77029, FL
 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2429

DATE _____



PHASE 1 PROJECT SITE



PREPARED FOR
THE CITY OF NAPLES
 735 EIGHT ST. S
 NAPLES, FLORIDA 34102

JOHN SOREY III
 MARGARET "DEE" SULICK
 BILL MOSS
 BOB MIDDLETON

MAYOR
 VICE MAYOR
 CITY MANAGER
 UTILITIES DIRECTOR

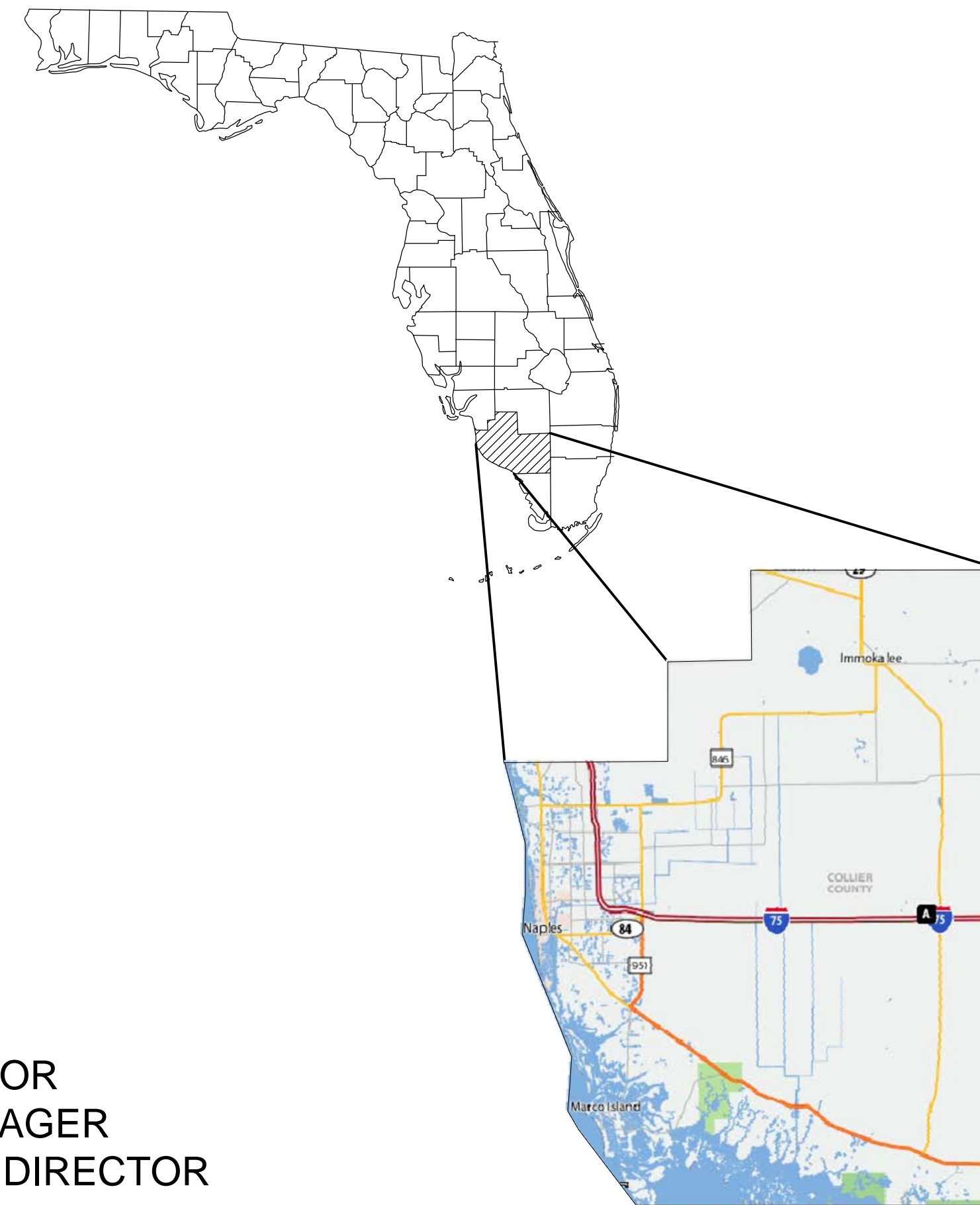
CITY COUNCIL

BILL BARNETT
 DOUG FINLAY
 TERESA HEITMANN
 LINDA PENNIMAN
 SAM SAAD III

TETRA TECH, INC.

Infrastructure Offices Throughout Florida
 Orlando * Fort Myers

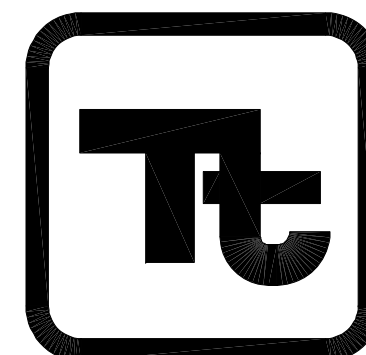
10600 CHEVROLET WAY - SUITE 300 - ESTERO - FL 33928
 TELEPHONE (239) 390-1467 - FAX (239) 390-1769 - WWW.TETRATECH.COM



COLLIER COUNTY



31 March 2014



4/2/2014 1:17:06 PM \\NERS181F51\PROJECTS\NERS1816200-08516-1-4002\CAD\SHEETFILES\ROYAL HARBOR PHASE 1\G-001-PHASE-1 GENERAL NOTES.DWG - MATTHEWS, RUSS

LIST OF STANDARD ABBREVIATIONS

Table listing standard abbreviations for various materials, equipment, and construction terms, organized by letter (A through Z).

PIPING LEGEND

Table defining piping symbols for different joint types: Flanged, Mechanical Joint, Groove Joint, and Solvent Weld. It includes symbols for fittings like BEND, TEE, WYE, REDUCER, and VALVES.

CIVIL LEGEND

Table defining civil engineering symbols for property lines, easements, contours, and various types of fences and vegetation.

REFERENCE SYMBOLS

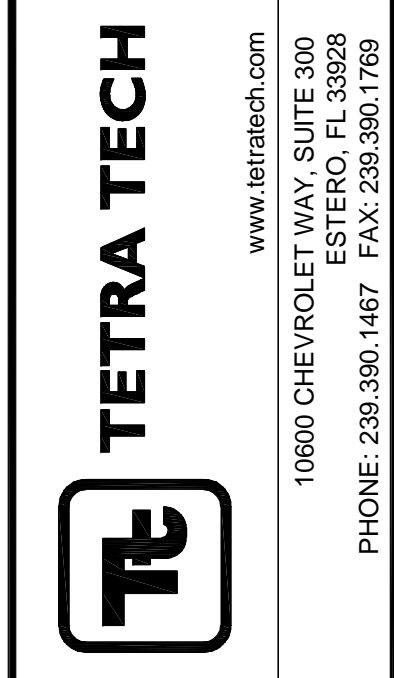
Table defining symbols for section and detail references, including drawing numbers and section titles.

HATCHING LEGEND

Table defining hatching patterns for different materials and surfaces such as asphalt, concrete, earth, and steel.

MECHANICAL/DRAFTING LEGEND

Table defining mechanical and drafting symbols for lines, matchlines, and dimensioning.



Tetra Tech Inc. 201 E Pine Street, Suite 1000 Orlando, FL 32801 Engineering Business No. 2429

Project No.: 200-08516-14002
Designed By: TW
Drawn By: WV
Checked By: DN

Table with columns for Mark, Date, and Description, used for tracking revisions.


CITY OF NAPLES ROYAL HARBOR WATER SYSTEM IMPROVEMENTS PHASE 1 LEGEND AND ABBREVIATIONS

G-003

Bar Measures 1 inch

4/4/2014 1:17:29 PM - \\ERS181FS1\PROJECTS\IER\08516200-08516-14002\CAD\SHHEETFILES\ROYAL HARBOR PHASE 1\G-04 KEY PLAN.DWG - MATTHEWS, RUSS



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 ESTERO, FL 33928
 PHONE: 239.390.1467 FAX: 239.390.1769

Best T. Messer, P.E.
 P.E. No. 77059, FL
 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2429
 DATE _____

MARK	DATE	DESCRIPTION	BY

CITY OF NAPLES
 ROYAL HARBOR
 WATER SYSTEM IMPROVEMENTS
 PHASE 1
 KEY PLAN

Project No.: 200-08516-14002
 Designed By: TW
 Drawn By: WV
 Checked By: DN

G-101

Copyright: Tetra Tech
 Bar Measures 1 inch

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 PHONE: 239.390.1467 FAX: 239.390.1769

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 P.E. No. 77029, FL
 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2429

DATE _____

MARK	DATE	DESCRIPTION	BY

CITY OF NAPLES
 ROYAL HARBOR
 WATER SYSTEM IMPROVEMENTS
 PHASE 1
 FIRE HYDRANT OVERLAY

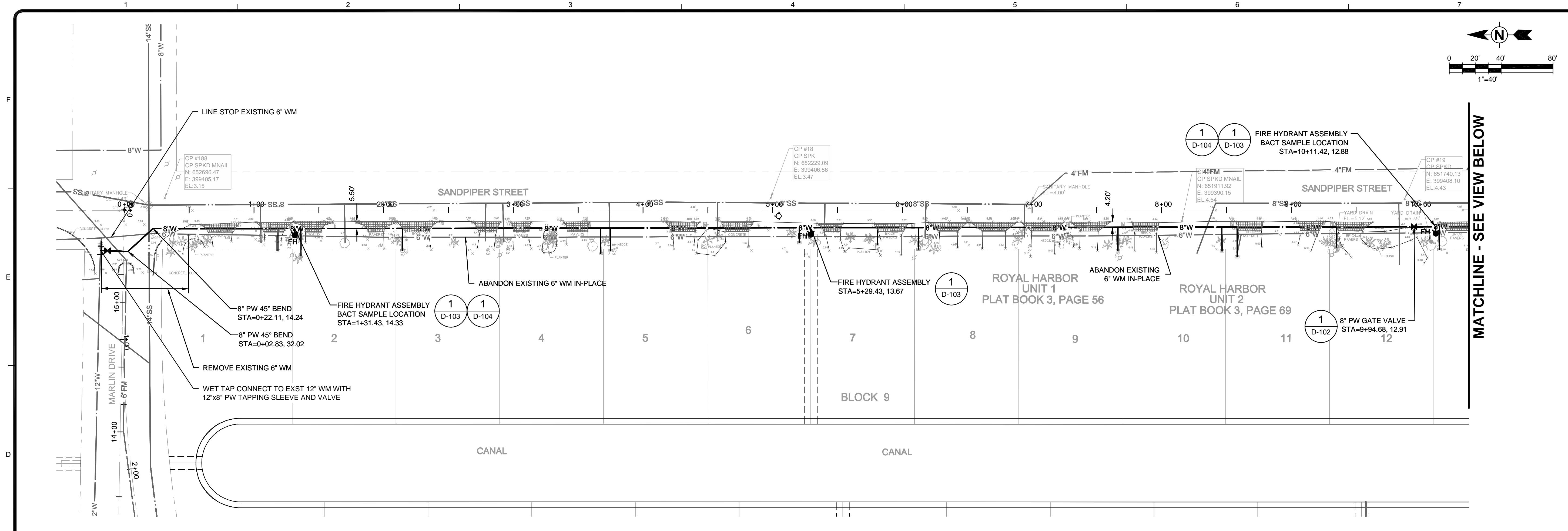
Project No.: 200-08516-14002
 Designed By: BM
 Drawn By: ZW
 Checked By: DN

G-102

Bar Measures 1 inch

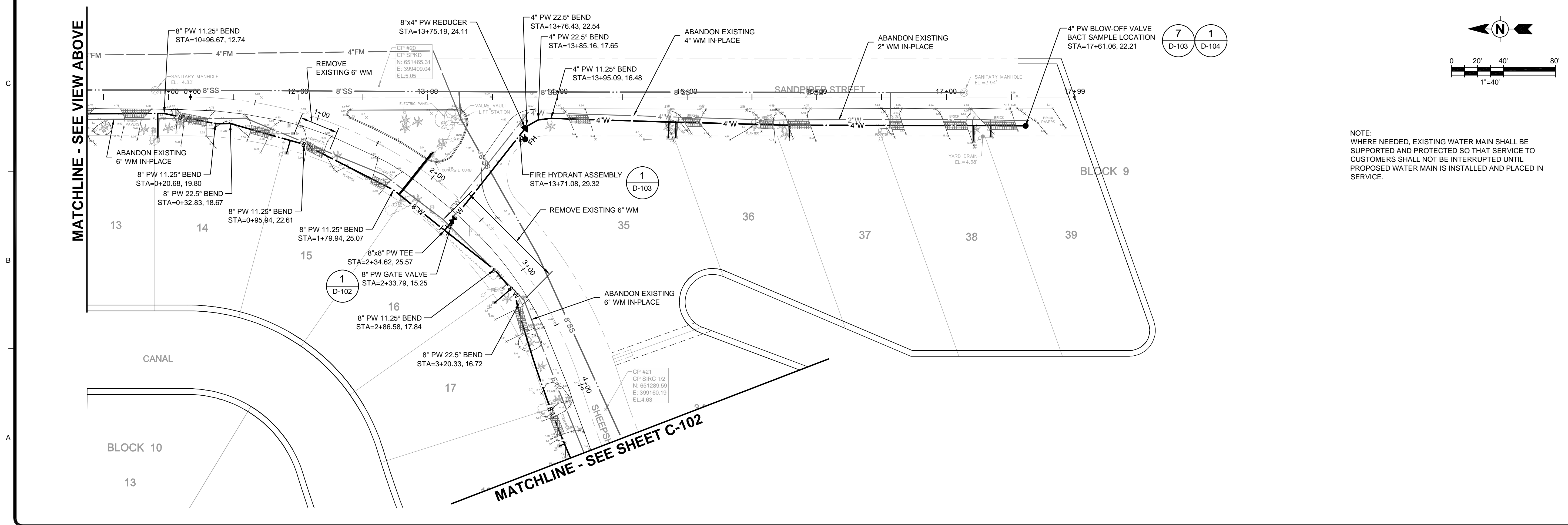
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4/2/2014 2:03:56 PM - I:\ERS\81\F51\PROJECTS\MER\08516200-08516-14002\CAD\DWG\FILES\ROYAL HARBOR PHASE 1\C-101_C-110-PHASE-1.DWG - MATTHEWS, RUSS



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PHONE: 239.390.1467 FAX: 239.390.1769

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P.E. No. 77059, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2429
DATE



NOTE:
WHERE NEEDED, EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED SO THAT SERVICE TO CUSTOMERS SHALL NOT BE INTERRUPTED UNTIL PROPOSED WATER MAIN IS INSTALLED AND PLACED IN SERVICE.

MARK	DATE	DESCRIPTION

CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
SANDPIPER ST &
SHEEPSHEAD DR

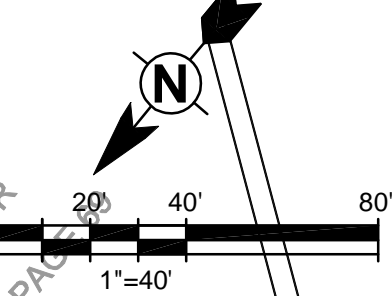
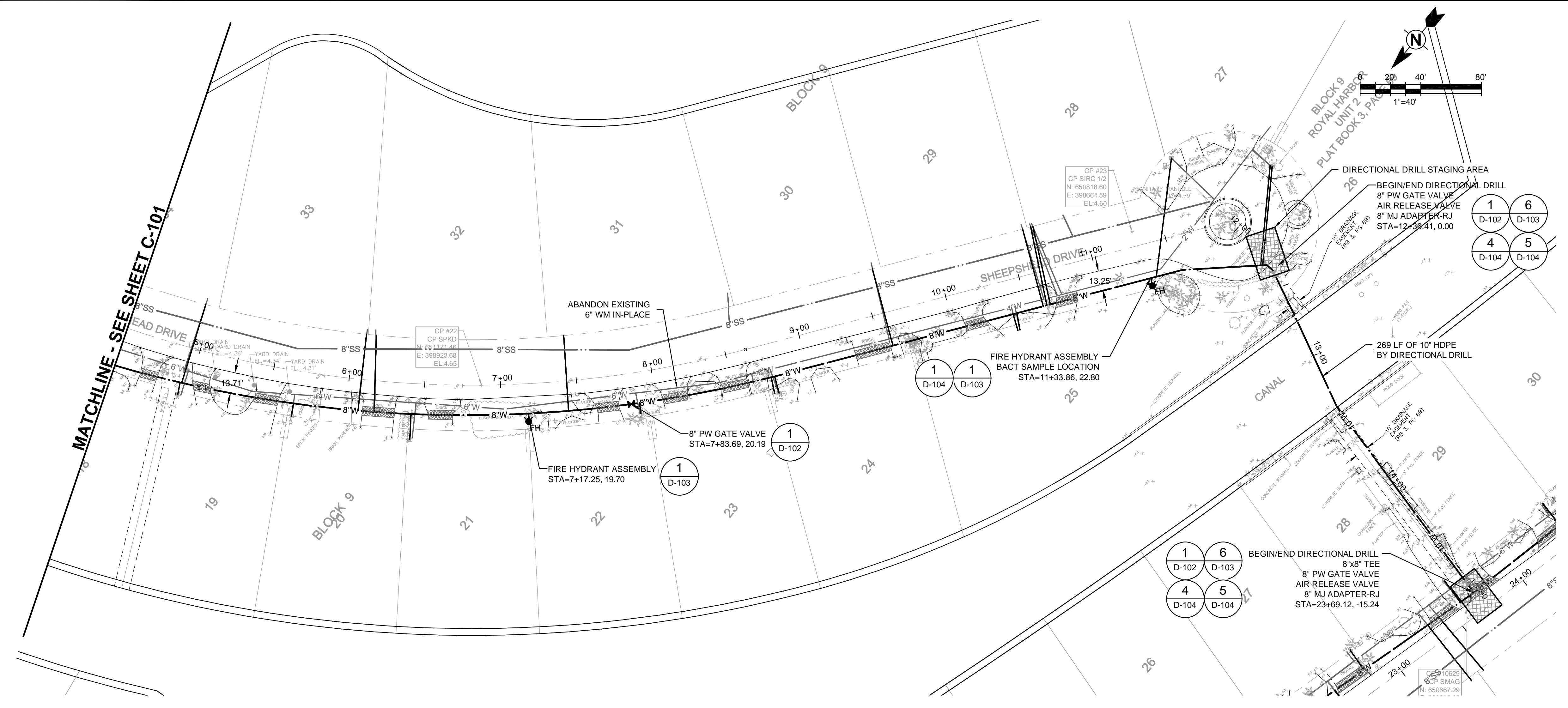
Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-101
Sheet
Bar Measures 1 inch

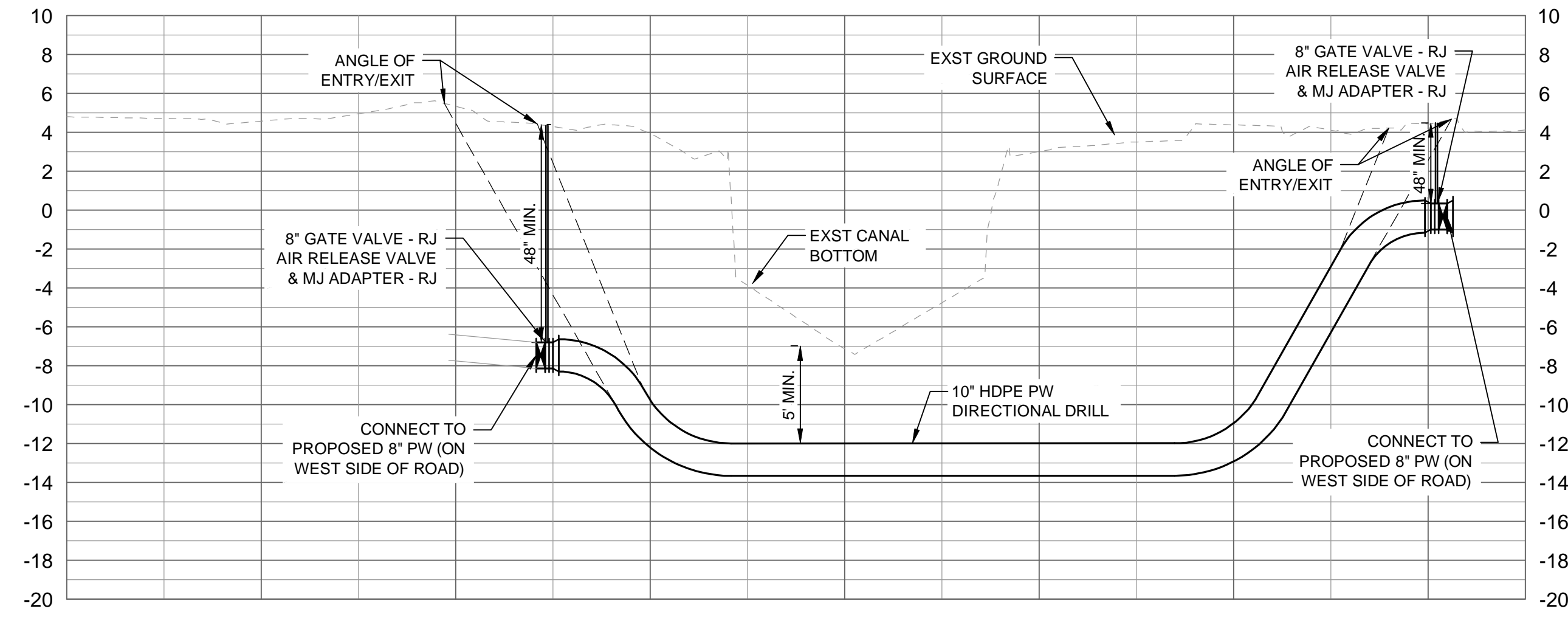
Copyright: Tetra Tech

4/4/2014 2:04:16 PM - \\ERS181FS1\PROJECTS\MER08516200-08516-14002\CAD\SHEETFILES\ROYAL HARBOR PHASE 1\C-101_C-110+PHASE-1.DWG - MATTHEWS, RUSS

MATCHLINE - SEE SHEET C-101



**SHEEPSHEAD DR
11+00.00 TO 14+75.06
Horizontal Scale 30
Vertical Scale 6**



- NOTES:**
- WHERE NEEDED, EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED SO THAT SERVICE TO CUSTOMERS SHALL NOT BE INTERRUPTED UNTIL PROPOSED WATER MAIN IS INSTALLED AND PLACED IN SERVICE.
 - DIRECTIONAL DRILL NOT TO BE COMPLETED UNTIL ALL EASEMENTS HAVE BEEN OBTAINED BY THE CITY.

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10600 CHEVROLET WAY, SUITE 300
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P.E. No. 77059, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2429

BY	DATE	DESCRIPTION

MARK	DATE	DESCRIPTION

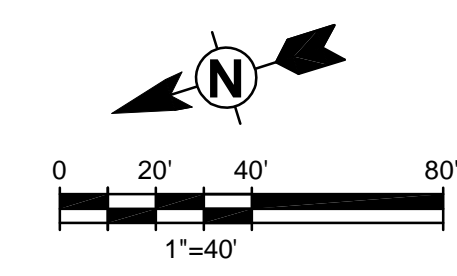
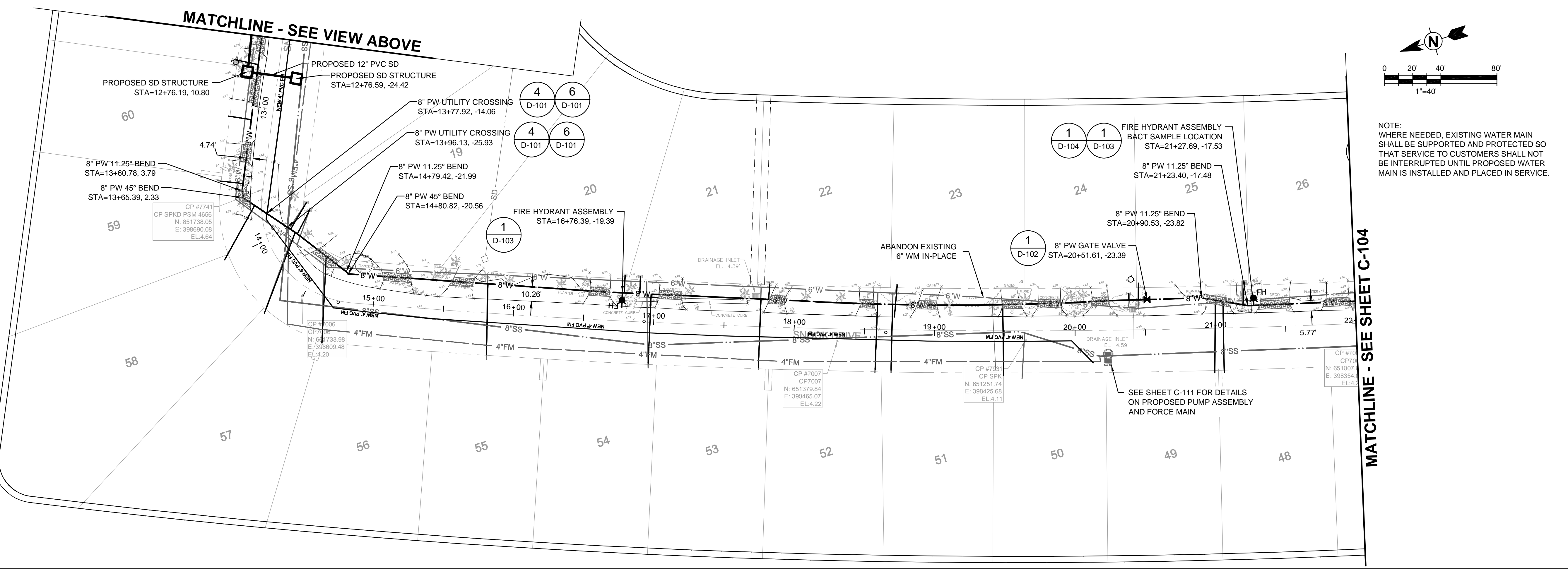
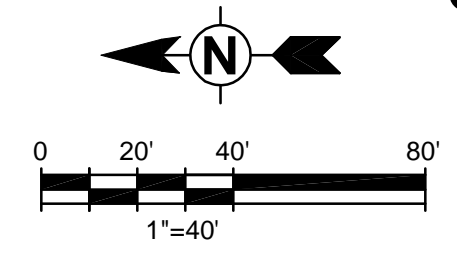
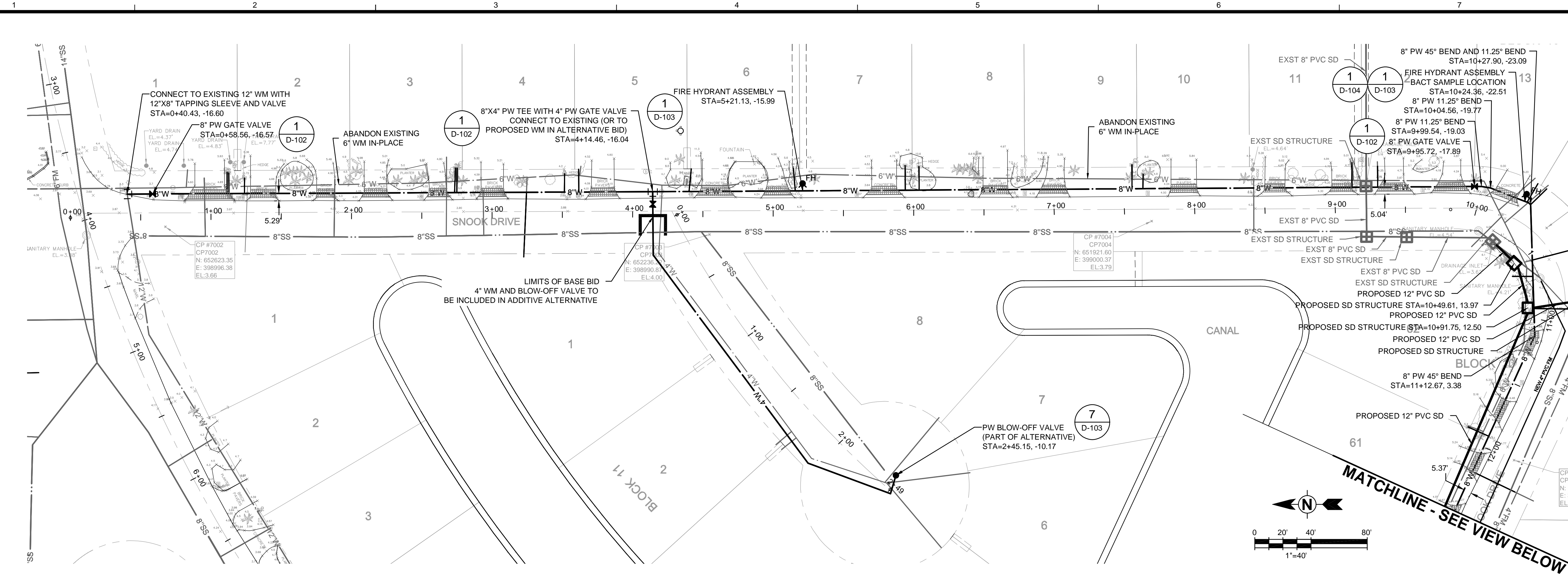
CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
SHEEPSHEAD DRIVE
STA. 00+00 TO STA. 00+00

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN


C-102
Sheet
Bar Measures 1 inch

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NOTE:
WHERE NEEDED, EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED SO THAT SERVICE TO CUSTOMERS SHALL NOT BE INTERRUPTED UNTIL PROPOSED WATER MAIN IS INSTALLED AND PLACED IN SERVICE.



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PHONE: 239.390.1467 FAX: 239.390.1769

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P.E. No. 77059, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2429

DATE _____

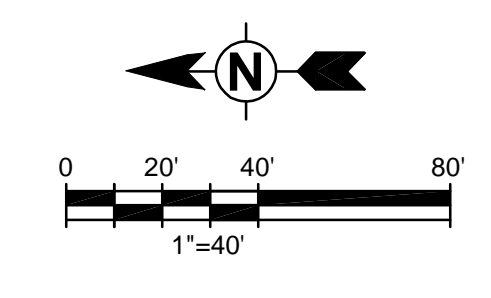
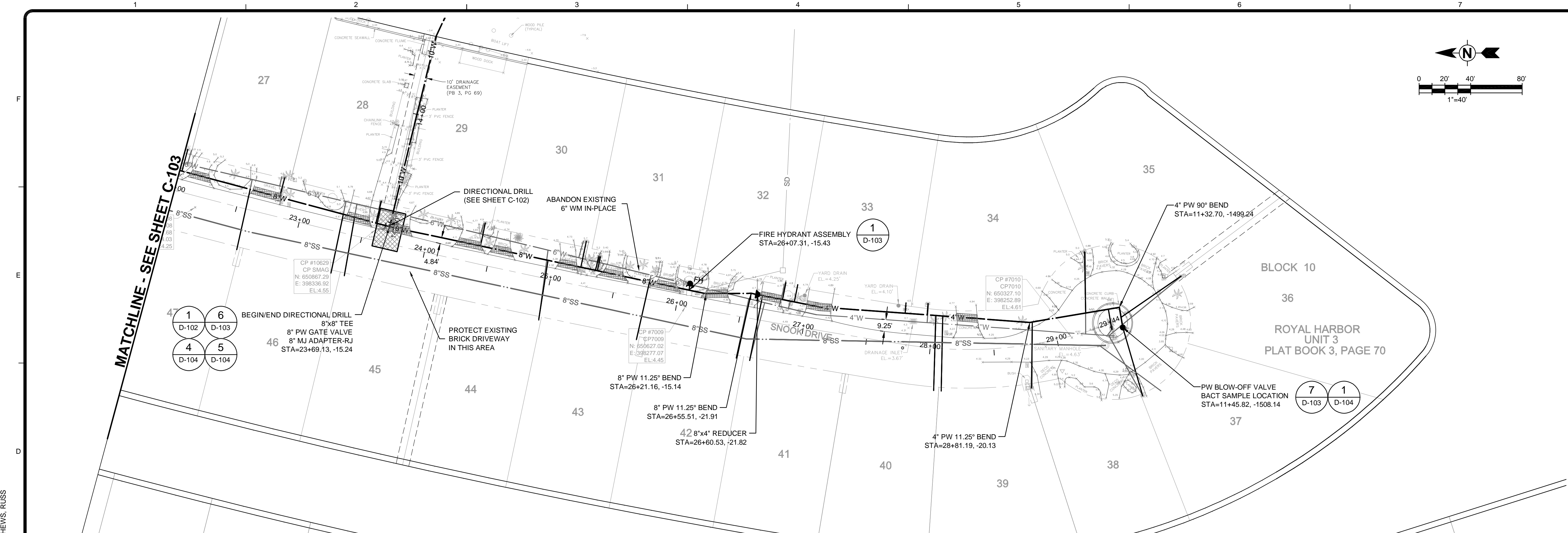
CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
SNOOK DRIVE
STA 0+00 TO STA 22+00

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-103

Sheet

Bar Measures 1 inch



MATCHLINE - SEE SHEET C-103

Brent T. Messinger, P.E.
 P.E. No. 77059, FL
 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2423
 DATE

MARK	DATE	DESCRIPTION

CITY OF NAPLES
 ROYAL HARBOR
 WATER SYSTEM IMPROVEMENTS
PHASE 1
SNOOK DRIVE
STA 22+00 TO STA 29+44

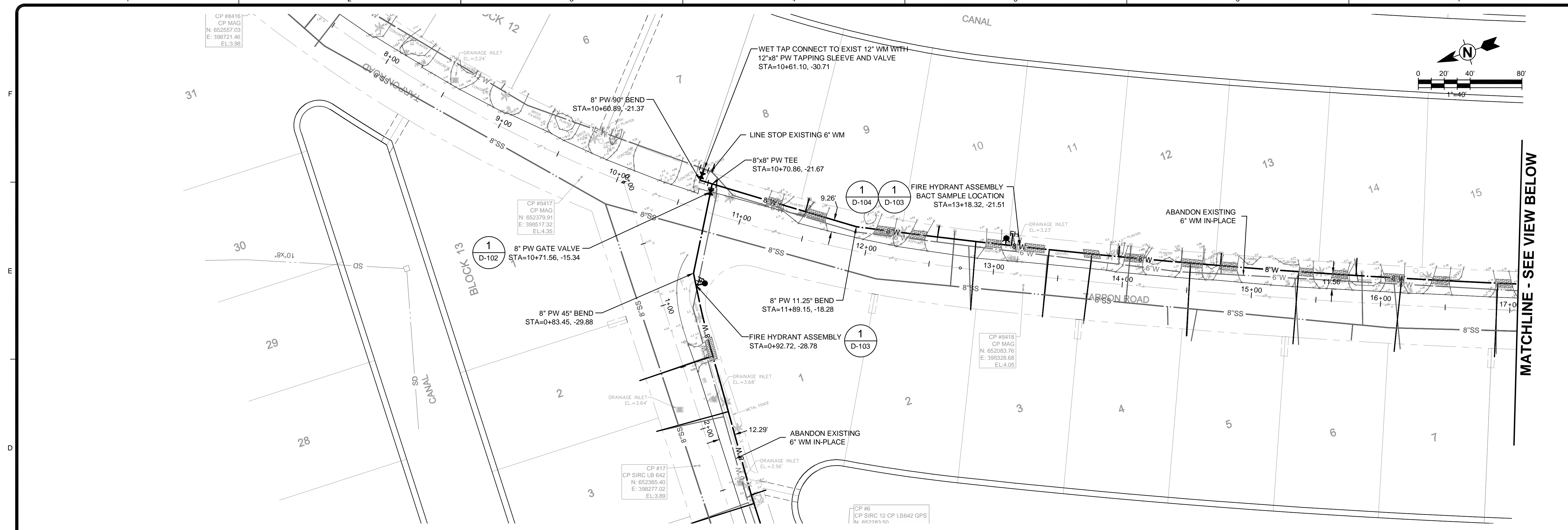
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 Designed By: BM
 Drawn By: ZW
 Checked By: DN

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SEE SHEET C-102 FOR
 DIRECTIONAL DRILL PROFILE

NOTE:
 WHERE NEEDED, EXISTING WATER MAIN
 SHALL BE SUPPORTED AND PROTECTED SO
 THAT SERVICE TO CUSTOMERS SHALL NOT
 BE INTERRUPTED UNTIL PROPOSED WATER
 MAIN IS INSTALLED AND PLACED IN SERVICE.

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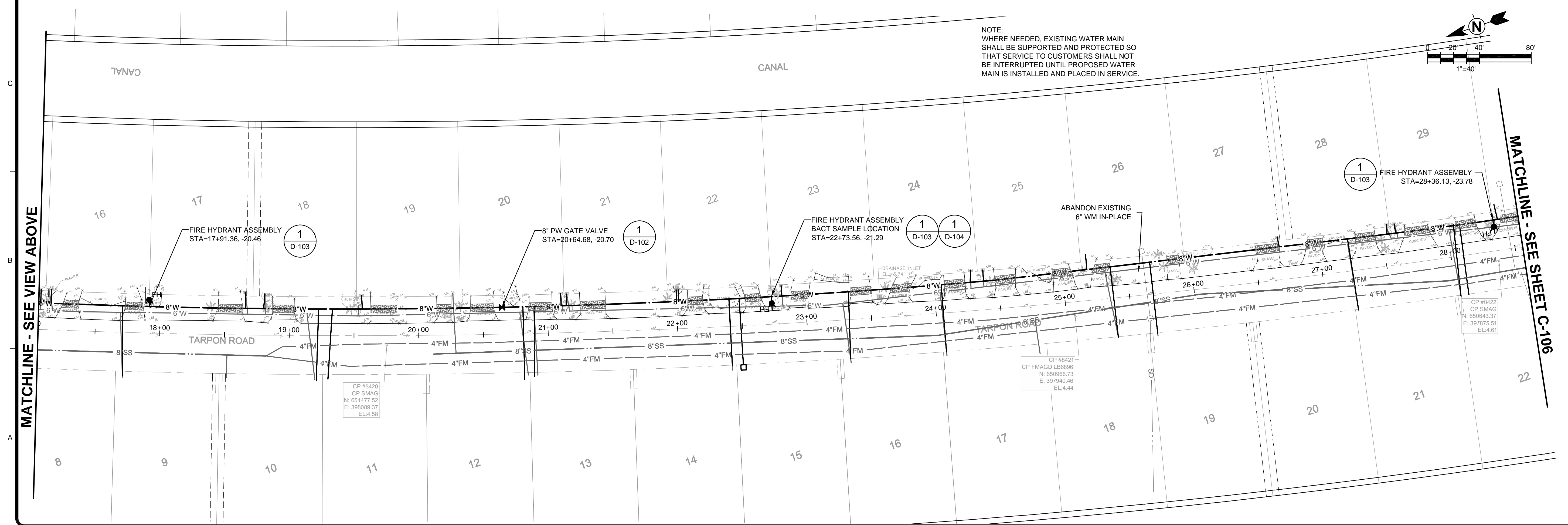
Brett T. Messner, P.E.
P.E. No. 77029, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2423

10600 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928
PHONE: 239.390.1467 FAX: 239.390.1769

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-105
Sheet

Bar Measures 1 inch



MARK	DATE	DESCRIPTION

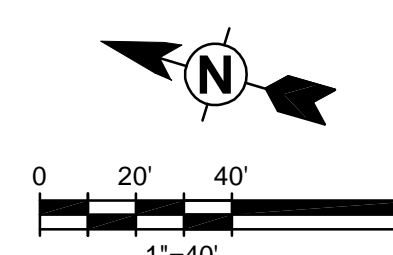
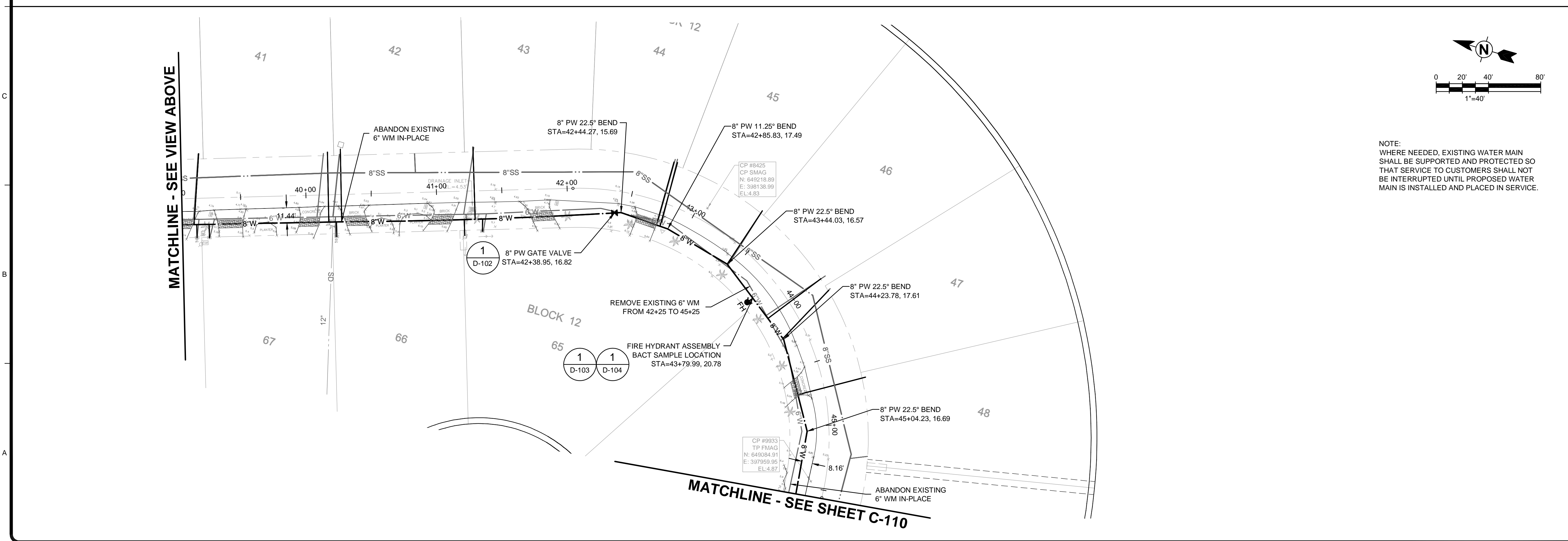
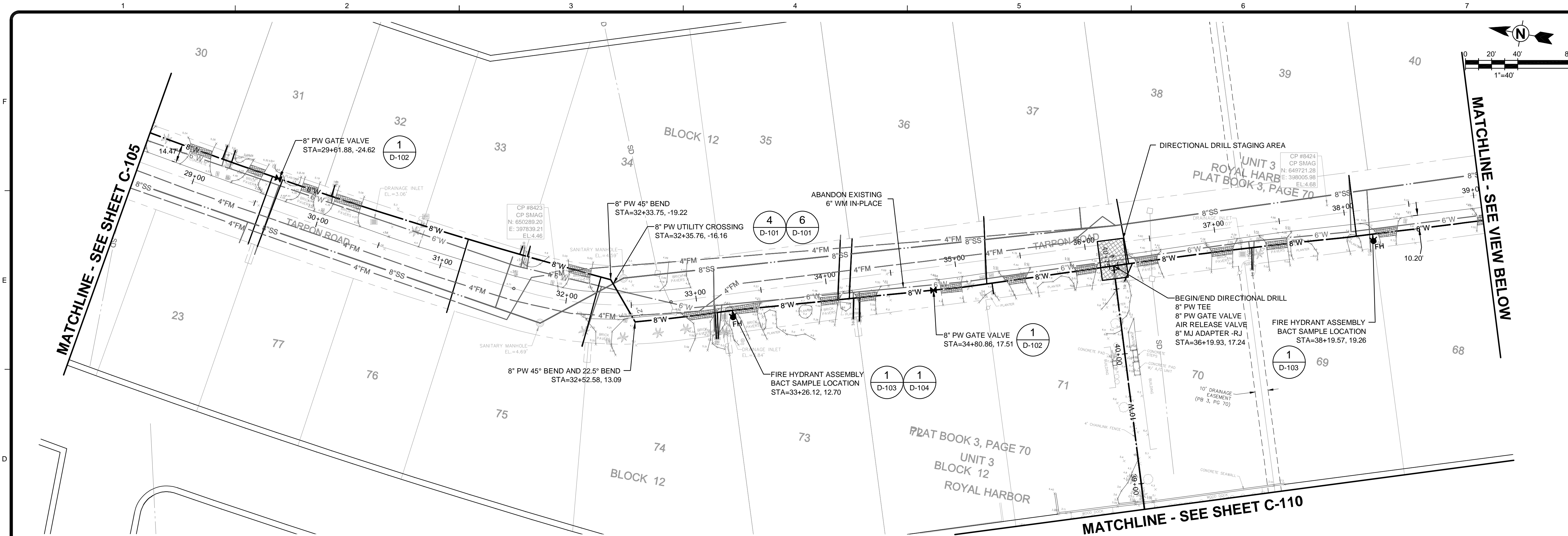
CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
TARPON ROAD
STA 10+00 TO STA 28+00

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-105
Sheet

Bar Measures 1 inch

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NOTE:
WHERE NEEDED, EXISTING WATER MAIN
SHALL BE SUPPORTED AND PROTECTED SO
THAT SERVICE TO CUSTOMERS SHALL NOT
BE INTERRUPTED UNTIL PROPOSED WATER
MAIN IS INSTALLED AND PLACED IN SERVICE.

MATCHLINE - SEE SHEET C-105

MATCHLINE - SEE VIEW BELOW

MATCHLINE - SEE SHEET C-110

MATCHLINE - SEE VIEW ABOVE

MATCHLINE - SEE SHEET C-110

TETRA TECH

10600 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928
PHONE: 239.390.1467 FAX: 239.390.1769
www.tetra-tech.com

Best T. Messner, P.E.
P.E. No. 77029, FL
Tetra Tech, Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2423

DATE _____

MARK	DATE	DESCRIPTION

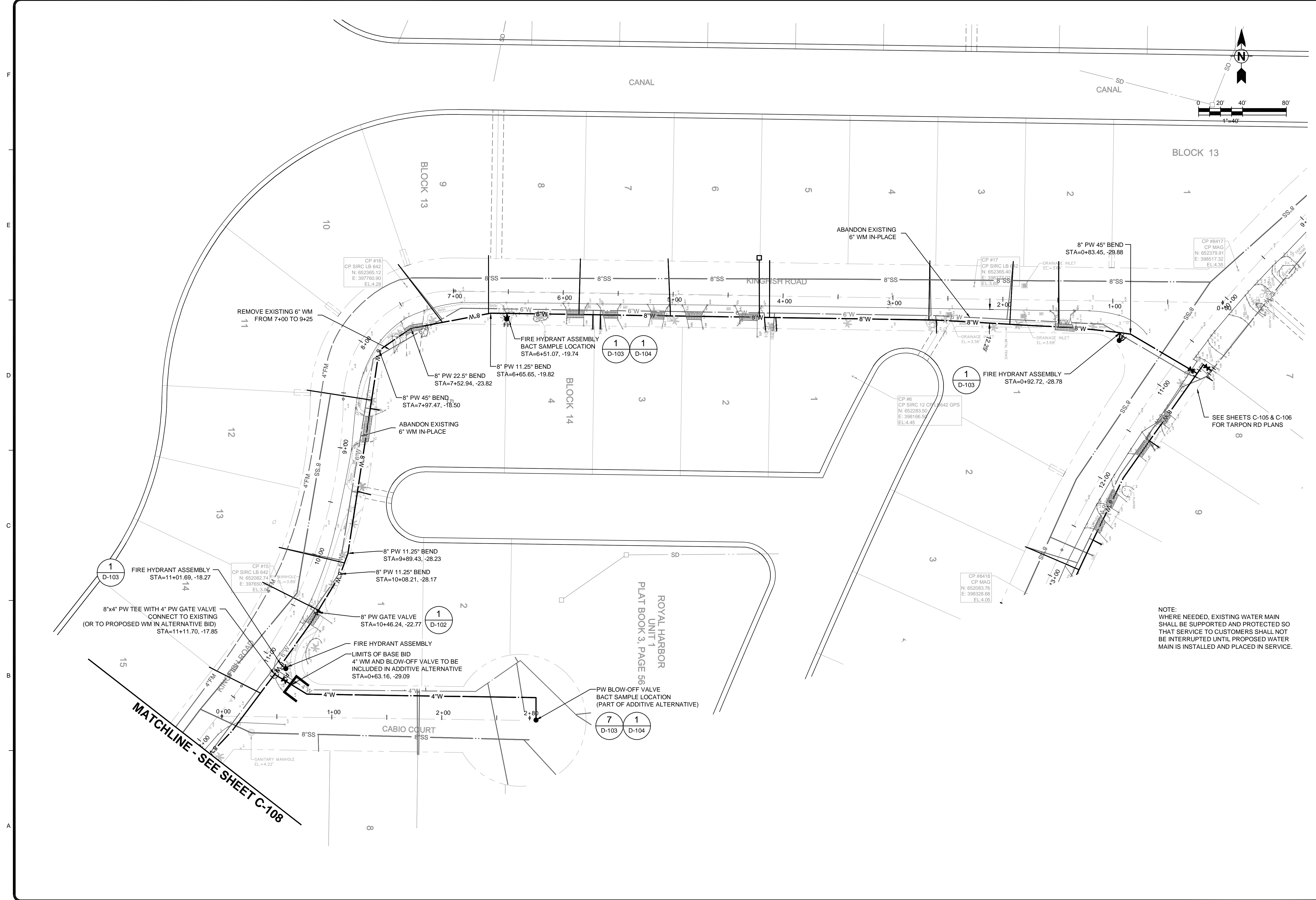
CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
TARPON ROAD
STA 28+00 TO STA 45+00

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-106
Sheet
Bar Measures 1 inch

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 PHONE: 239.390.1467 FAX: 239.390.1769

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 P.E. No. 77029, FL
 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2429

DATE _____

MARK	DATE	DESCRIPTION

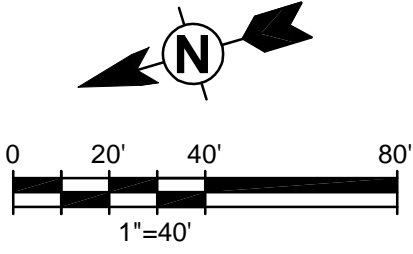
CITY OF NAPLES
 ROYAL HARBOR
 WATER SYSTEM IMPROVEMENTS
 PHASE 1
 KINGFISH ROAD
 STA 0+00 TO STA 12+00

Project No.: 200-08516-14002
 Designed By: BM
 Drawn By: ZW
 Checked By: DN

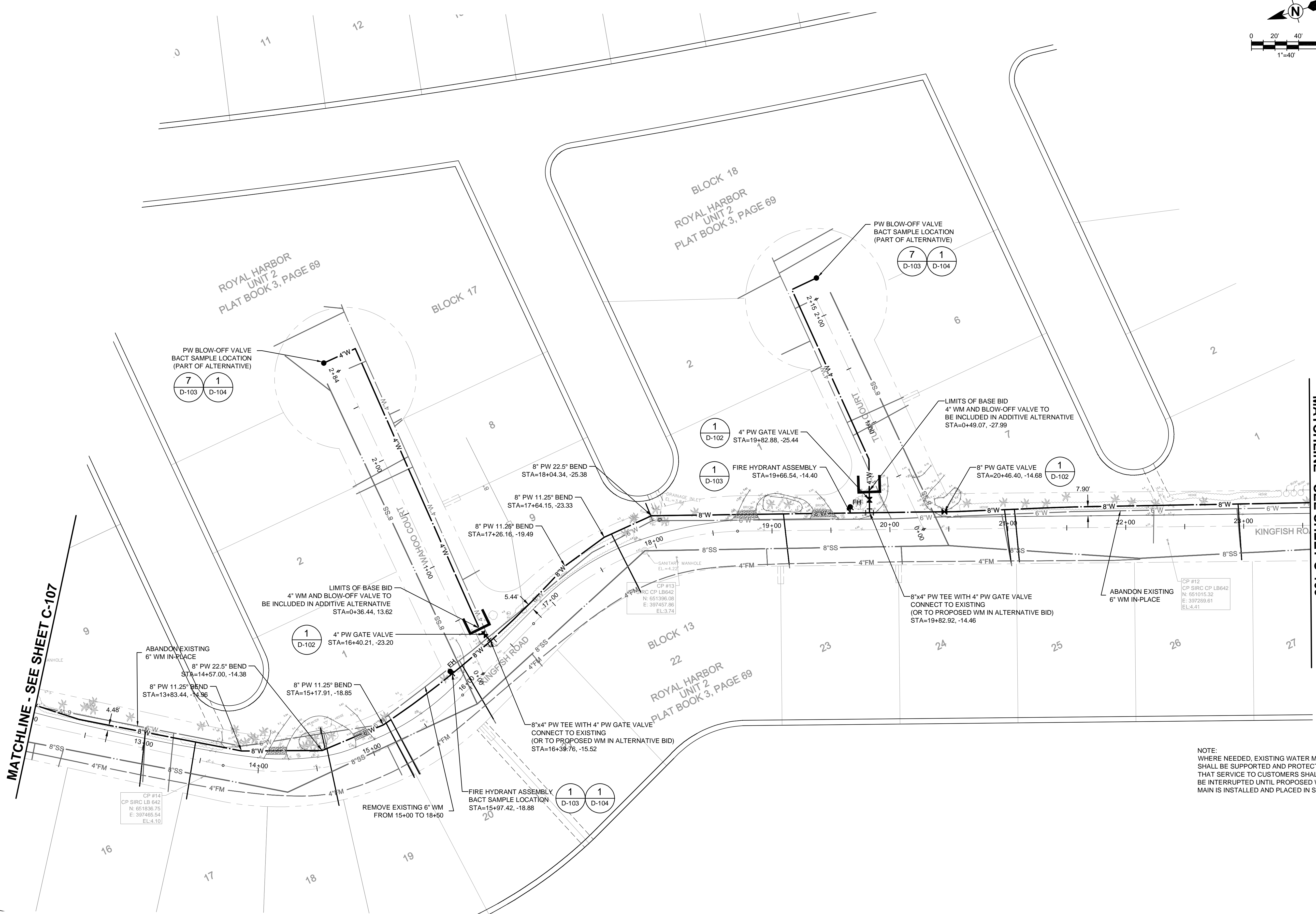
C-107
 Sheet

Bar Measures 1 inch

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MATCHLINE - SEE SHEET C-109

MATCHLINE - SEE SHEET C-107

NOTE:
WHERE NEEDED, EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED SO THAT SERVICE TO CUSTOMERS SHALL NOT BE INTERRUPTED UNTIL PROPOSED WATER MAIN IS INSTALLED AND PLACED IN SERVICE.

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10600 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928
PHONE: 239.390.1467 FAX: 239.390.1769

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P.E. No. 77059, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
Engineering Business No. 2429
DATE _____

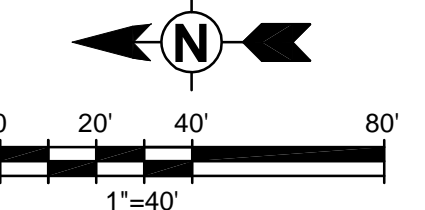
MARK	DATE	DESCRIPTION	BY

CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
KINGFISH ROAD
STA 12+00 TO STA 23+50

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-108
Sheet
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Bar Measures 1 inch

1 2 3 4 5 6 7



ROYAL HARBOR
UNIT 2
PLAT BOOK 3, PAGE 69

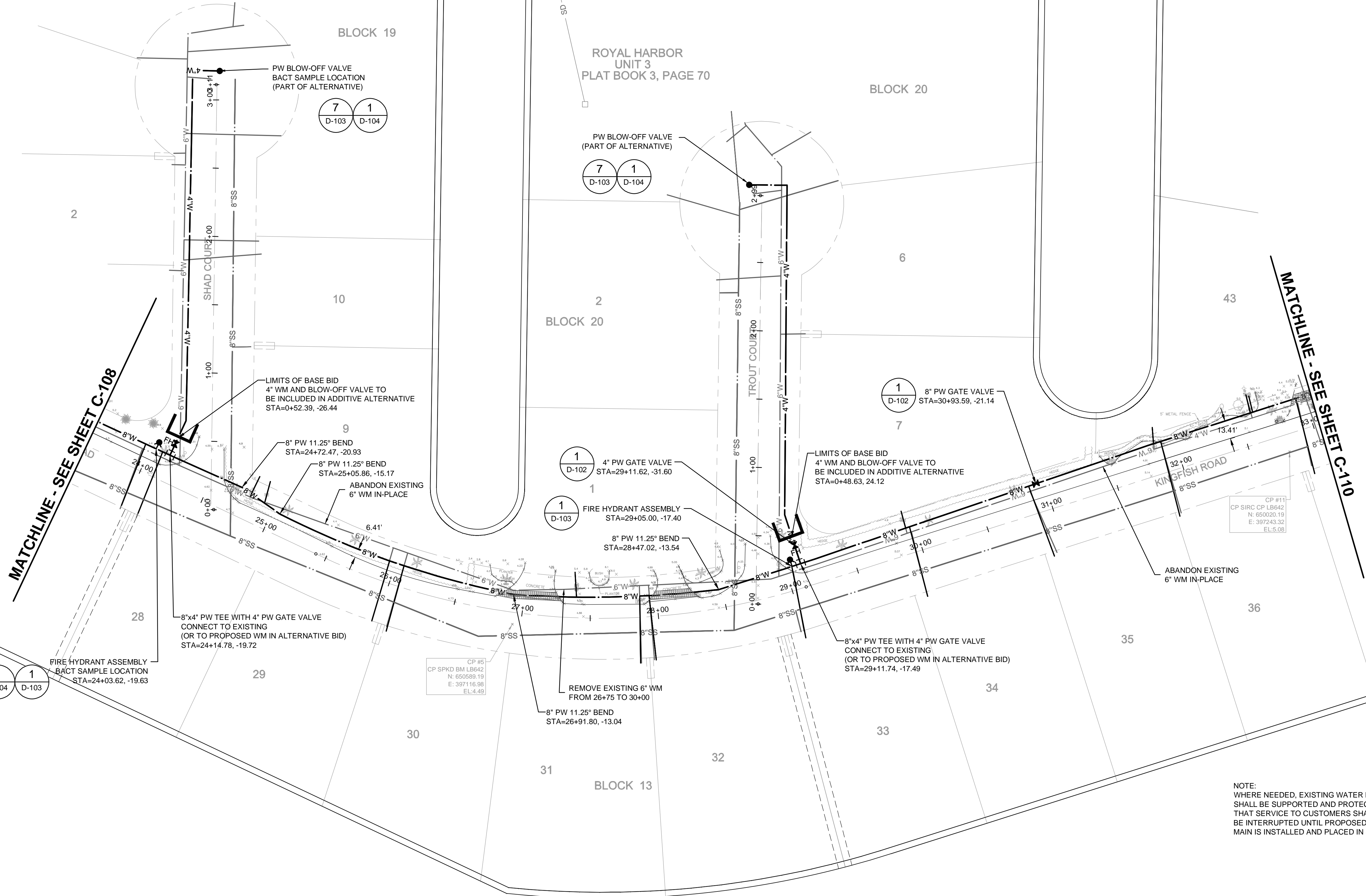
BLOCK 19

ROYAL HARBOR
UNIT 3
PLAT BOOK 3, PAGE 70

BLOCK 20

BLOCK 20

BLOCK 13



MATCHLINE - SEE SHEET C-108

MATCHLINE - SEE SHEET C-110

1
D-104

1
D-103

FIRE HYDRANT ASSEMBLY
BACT SAMPLE LOCATION
STA=24+03.62, -19.63

8"x4" PW TEE WITH 4" PW GATE VALVE
CONNECT TO EXISTING
(OR TO PROPOSED WM IN ALTERNATIVE BID)
STA=24+14.78, -19.72

8" PW 11.25° BEND
STA=24+72.47, -20.93

8" PW 11.25° BEND
STA=25+05.86, -15.17

ABANDON EXISTING
6" WM IN-PLACE

1
D-102

4" PW GATE VALVE
STA=29+11.62, -31.60

1
D-103

FIRE HYDRANT ASSEMBLY
STA=29+05.00, -17.40

8" PW 11.25° BEND
STA=28+47.02, -13.54

REMOVE EXISTING 6" WM
FROM 26+75 TO 30+00

8" PW 11.25° BEND
STA=26+91.80, -13.04

LIMITS OF BASE BID
4" WM AND BLOW-OFF VALVE TO
BE INCLUDED IN ADDITIVE ALTERNATIVE
STA=0+48.63, 24.12

1
D-102

8" PW GATE VALVE
STA=30+93.59, -21.14

8"x4" PW TEE WITH 4" PW GATE VALVE
CONNECT TO EXISTING
(OR TO PROPOSED WM IN ALTERNATIVE BID)
STA=29+11.74, -17.49

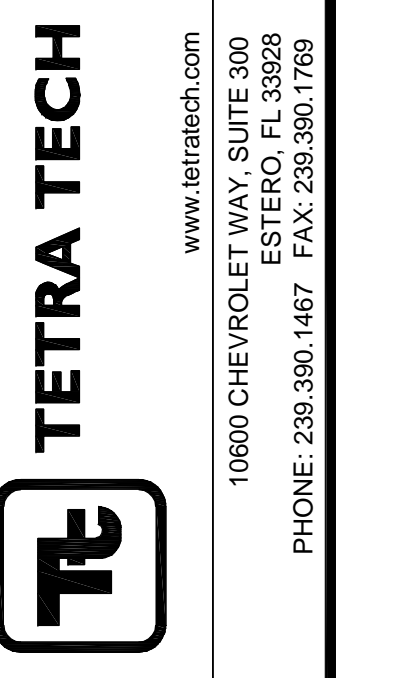
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N: 650589.19
E: 397116.98
EL: 4.49

CP #11
CP SIRC CP LB642
N: 650020.19
E: 397243.32
EL: 5.08

NOTE:
WHERE NEEDED, EXISTING WATER MAIN
SHALL BE SUPPORTED AND PROTECTED SO
THAT SERVICE TO CUSTOMERS SHALL NOT
BE INTERRUPTED UNTIL PROPOSED WATER
MAIN IS INSTALLED AND PLACED IN SERVICE.

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F
E
D
C
B
A



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P.E. No. 77059, FL
Tetra Tech Inc.
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Orlando, FL 32801
Engineering Business No. 2429

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ESTERO, FL 33928
PHONE: 239.390.1467 FAX: 239.390.1769

MARK	DATE	DESCRIPTION

CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
KINGFISH ROAD
STA 23+50 TO STA 33+00

Project No.: 200-08516-14002
Designed By: BM
Drawn By: ZW
Checked By: DN

C-109
Sheet

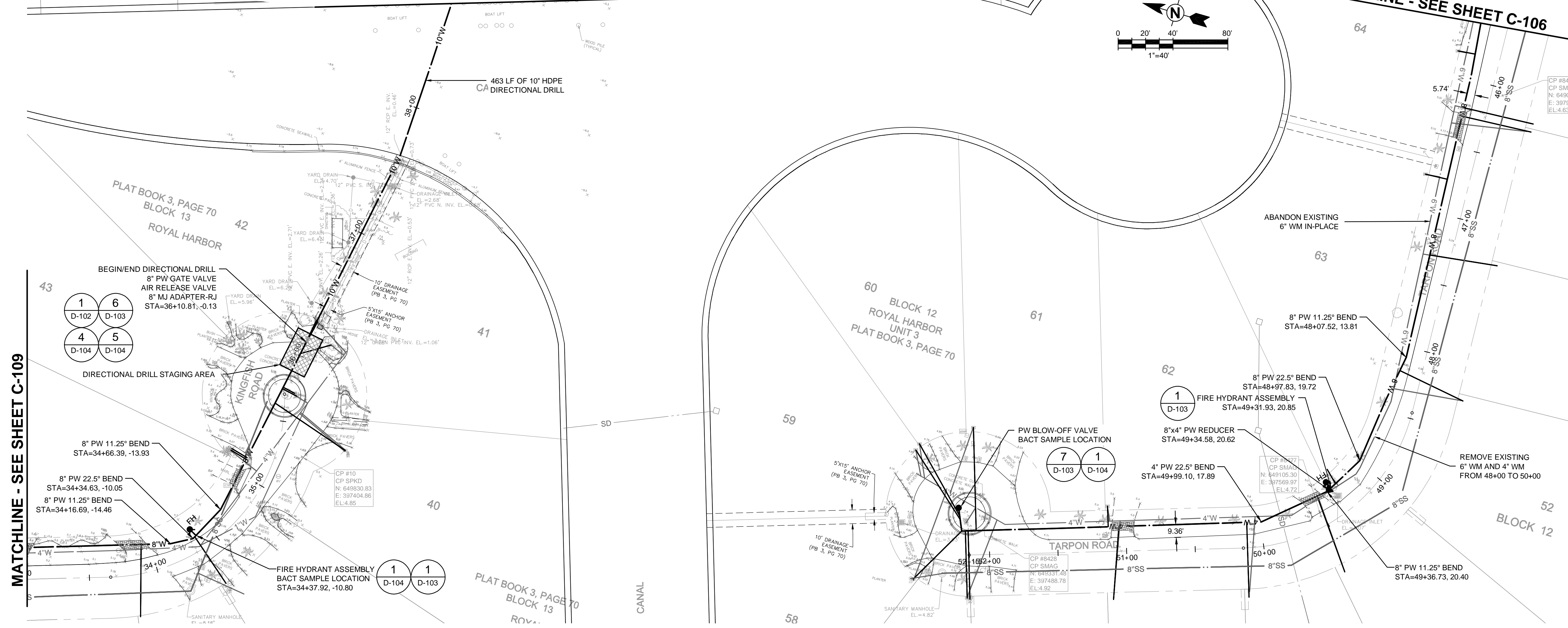
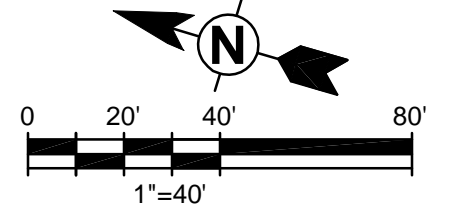
Bar Measures 1 inch

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MATCHLINE - SEE SHEET C-106

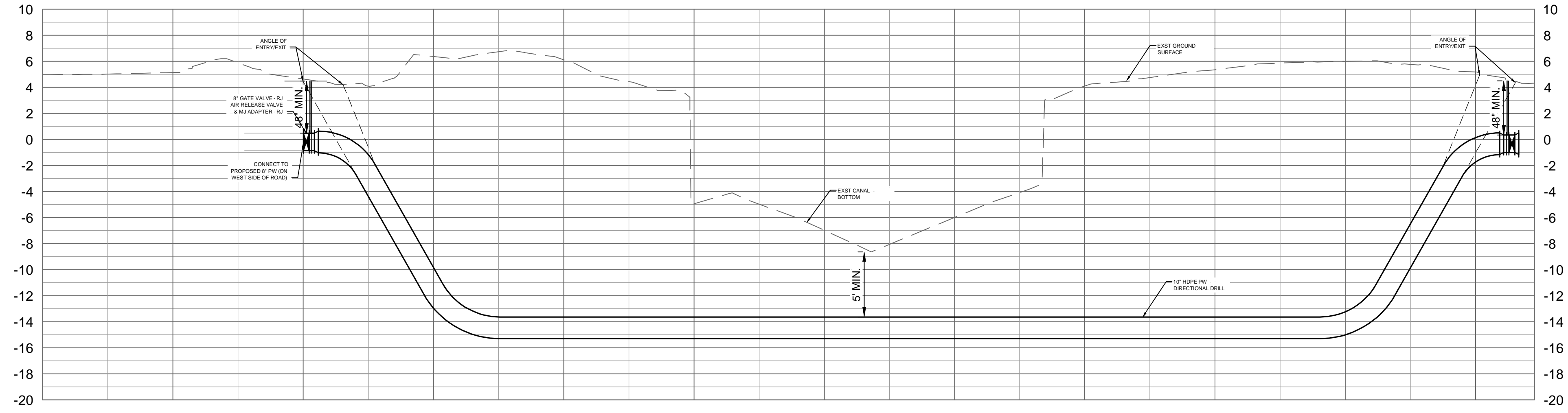
MATCHLINE - SEE SHEET C-106



MATCHLINE - SEE SHEET C-109

- NOTES:
- WHERE NEEDED, EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED SO THAT SERVICE TO CUSTOMERS SHALL NOT BE INTERRUPTED UNTIL PROPOSED WATER MAIN IS INSTALLED AND PLACED IN SERVICE.
 - DIRECTIONAL DRILL NOT TO BE COMPLETED UNTIL ALL EASEMENTS HAVE BEEN OBTAINED BY THE CITY.

KINGFISH RD
35+00.00 TO 40+72.60
Horizontal Scale 30
Vertical Scale 6



TETRA TECH
 www.tetra.tech.com
 10600 CHEVROLET WAY, SUITE 300
 ESTERO, FL 33928
 PHONE: 239.390.1467 FAX: 239.390.1769

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 Tetra Tech Inc.
 201 E Pine Street, Suite 1000
 Orlando, FL 32801
 Engineering Business No. 2429

MARK	DATE	DESCRIPTION

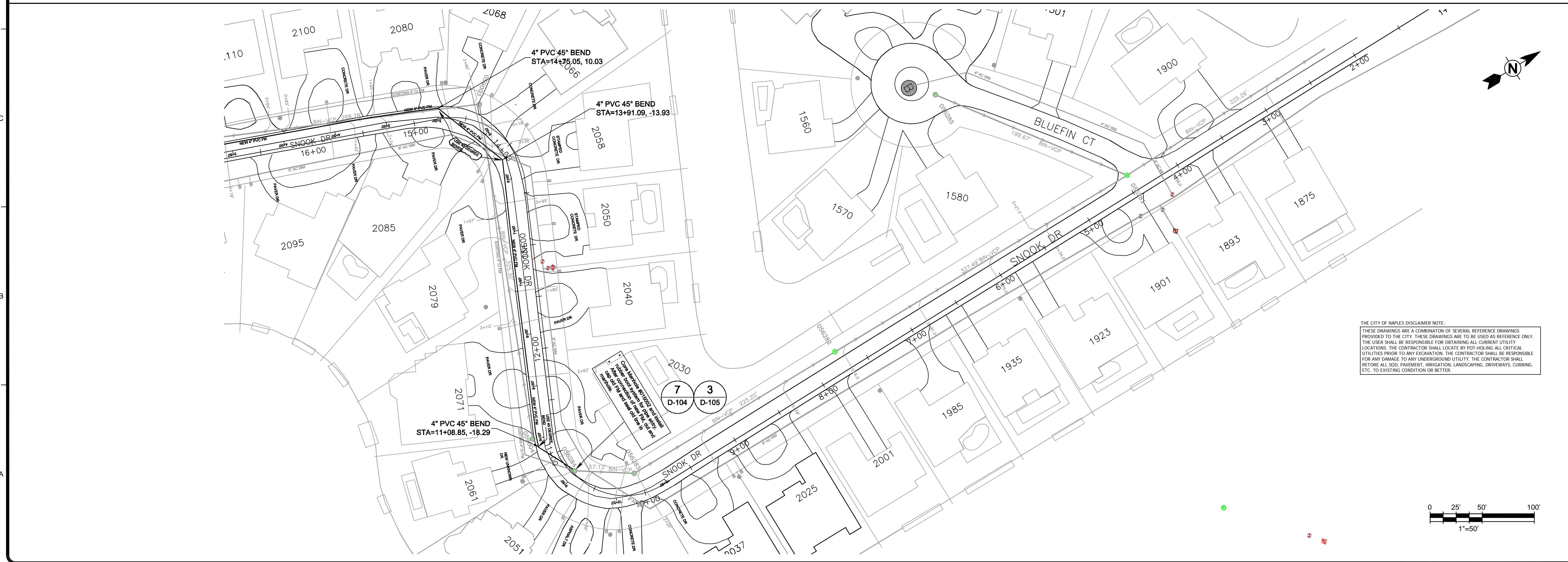
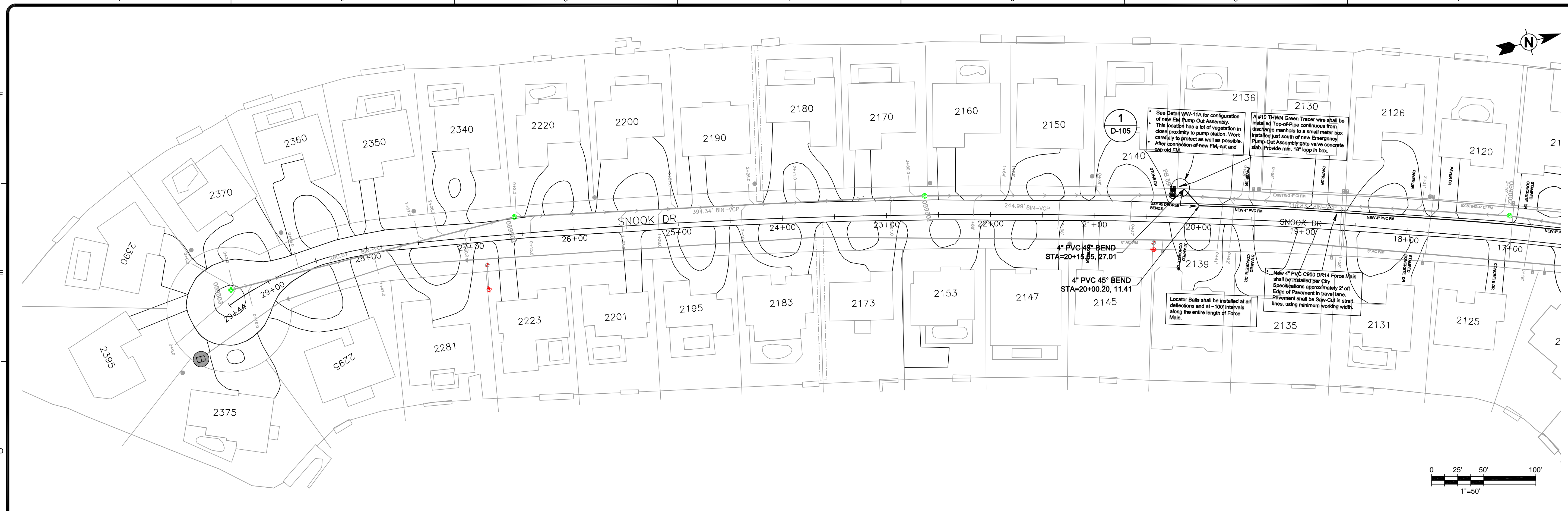
CITY OF NAPLES
 ROYAL HARBOR
 WATER SYSTEM IMPROVEMENTS
 PHASE 1
 KINGFISH RD &
 TARPON ROAD

Project No.: 200-08516-14002
 Designed By: BM
 Drawn By: ZW
 Checked By: DN

C-110
 Sheet
 Bar Measures 1 inch

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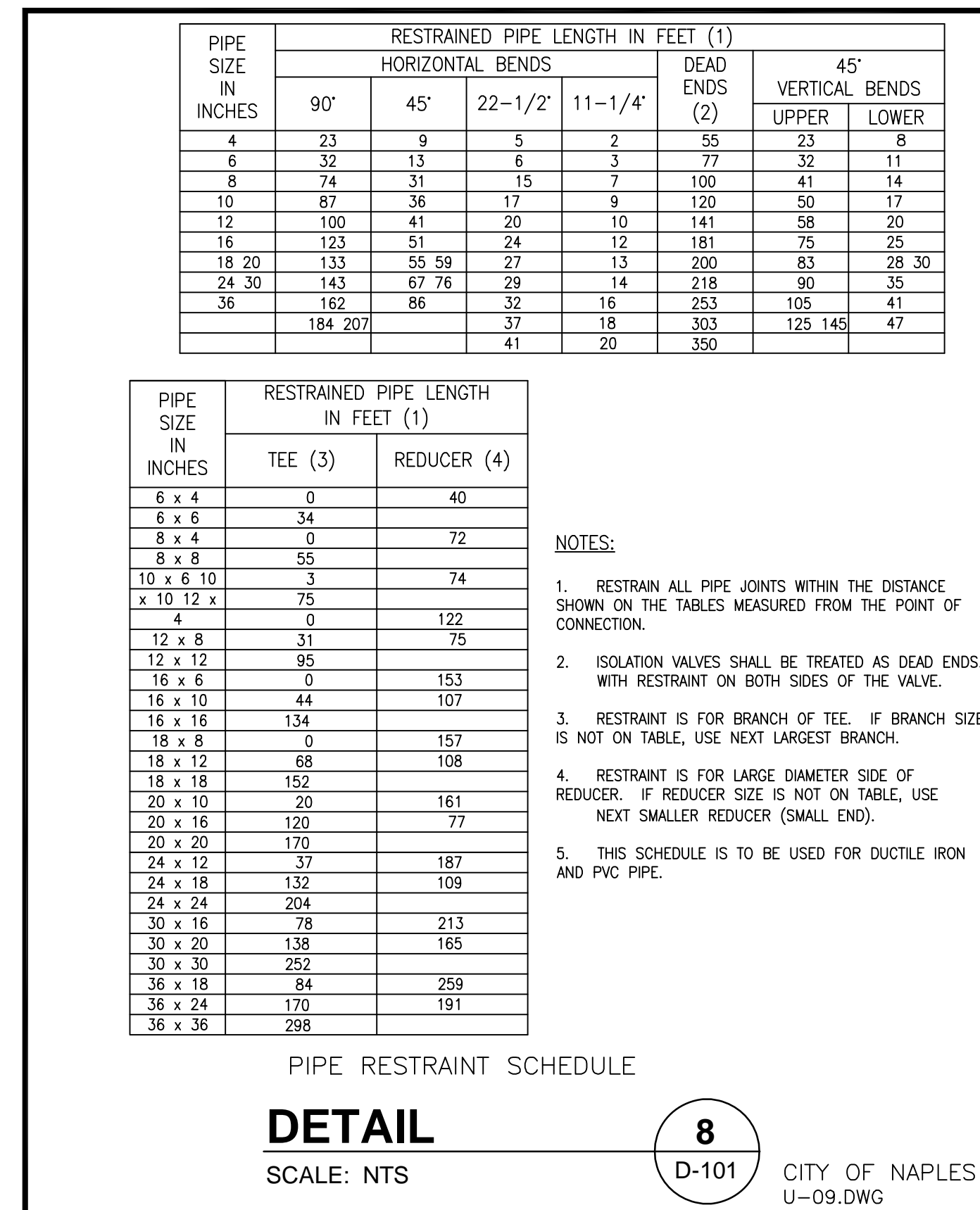
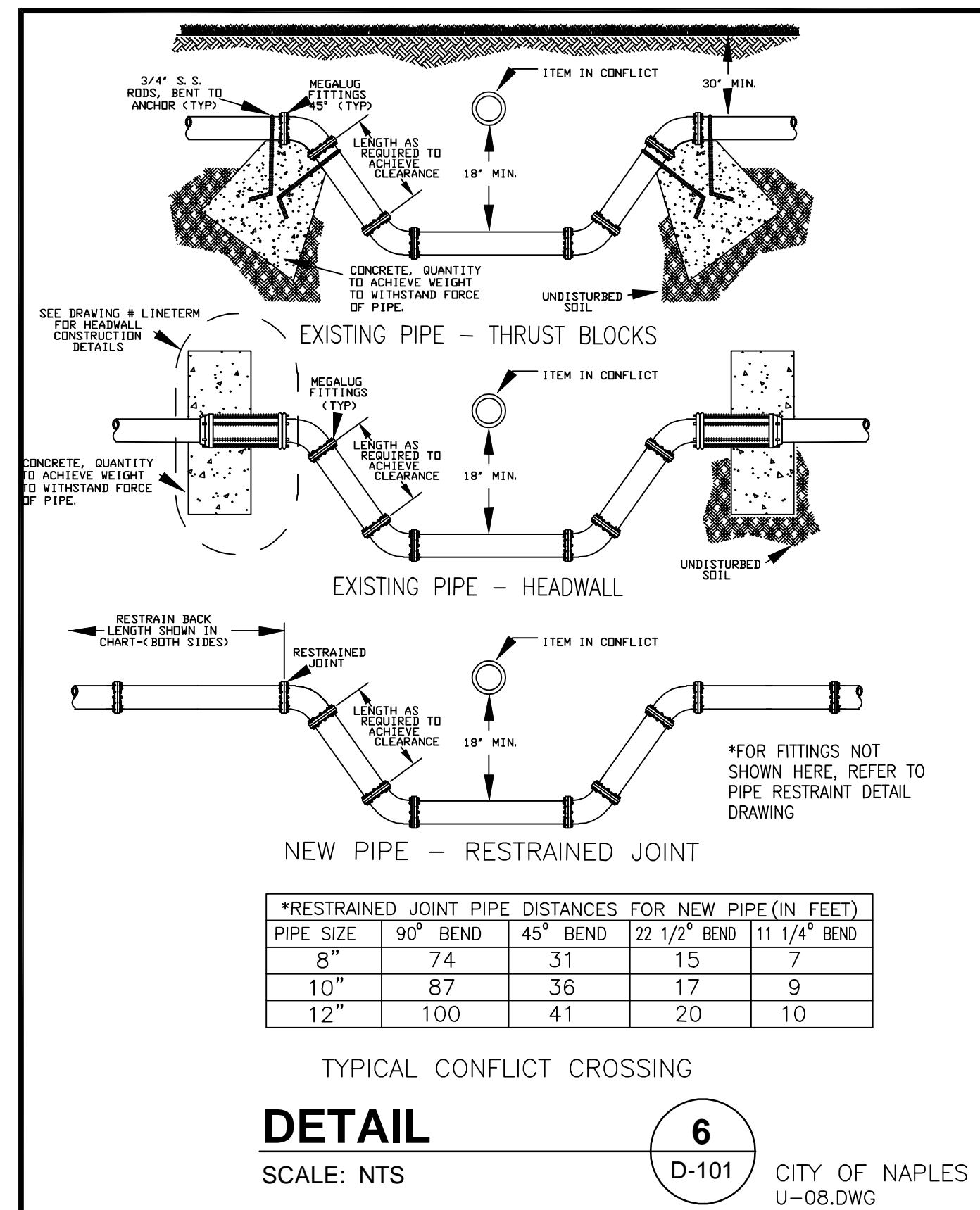
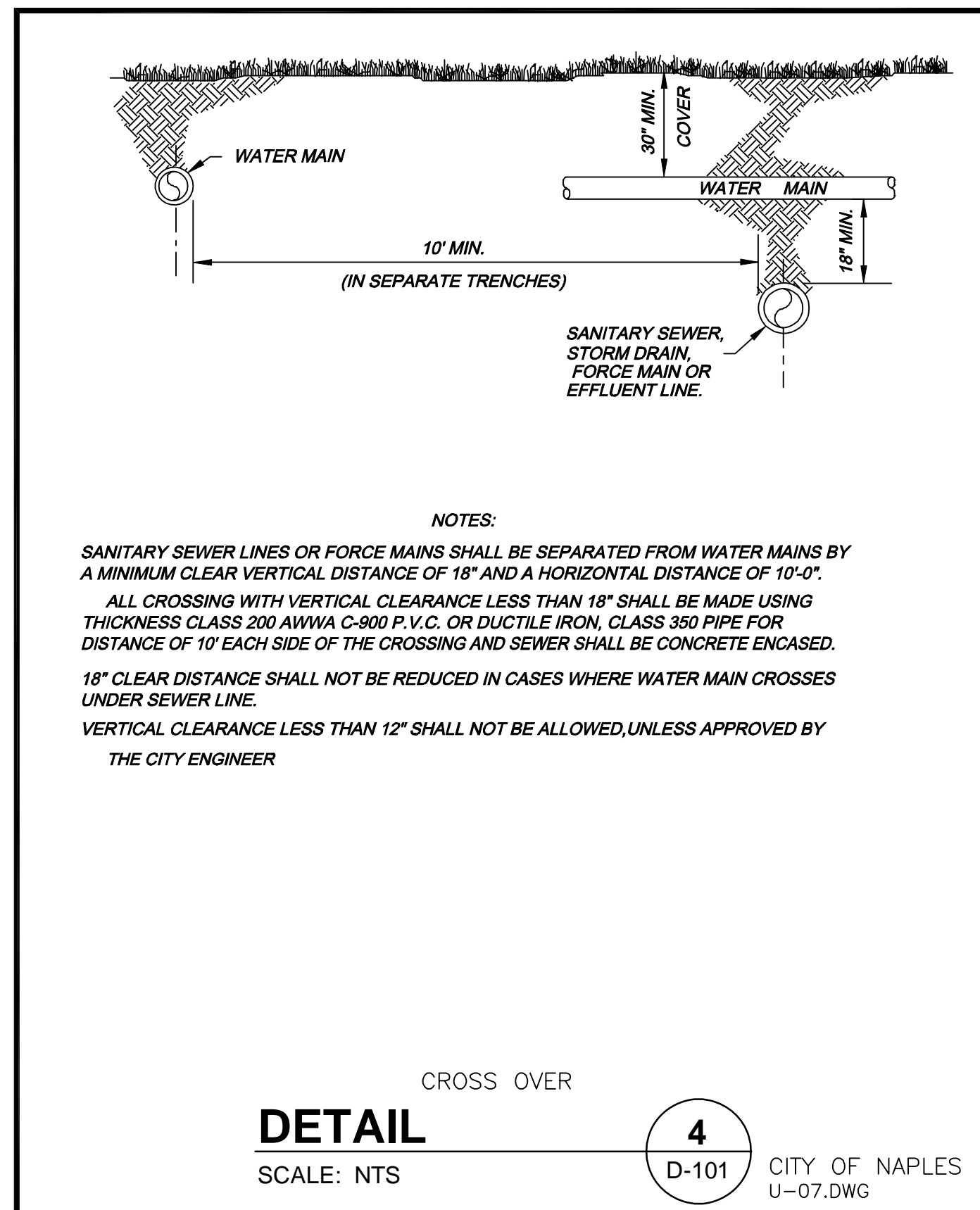
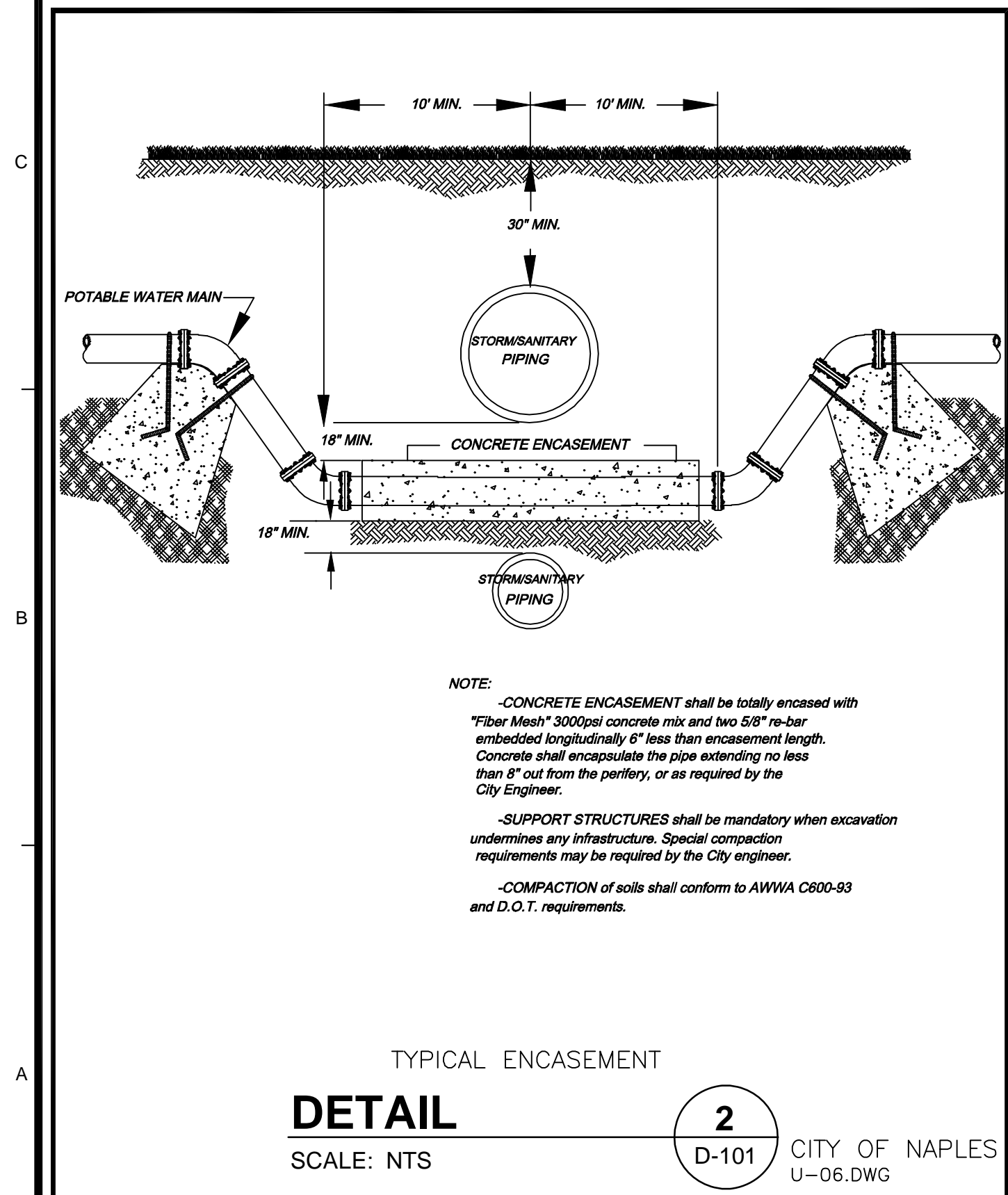
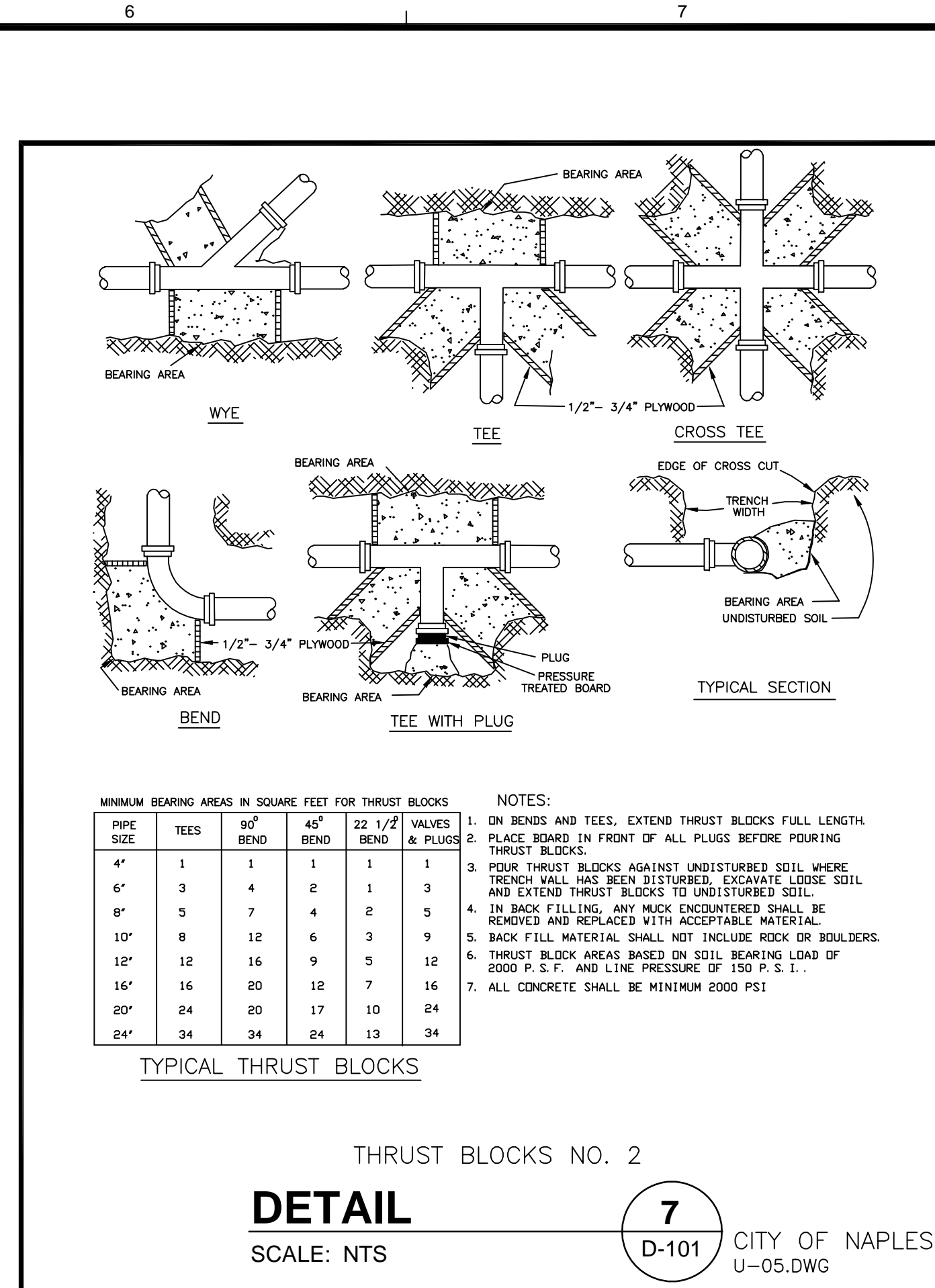
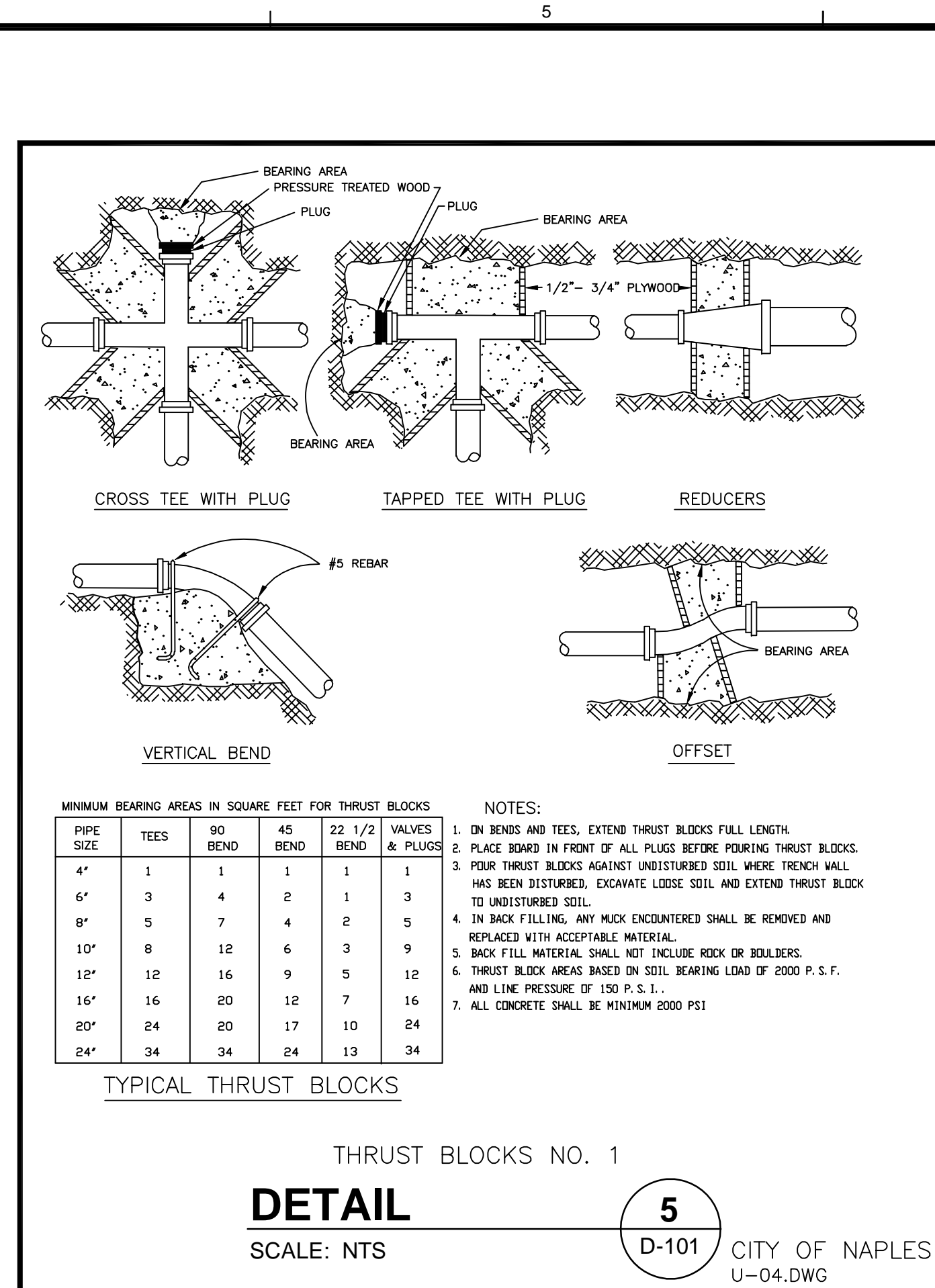
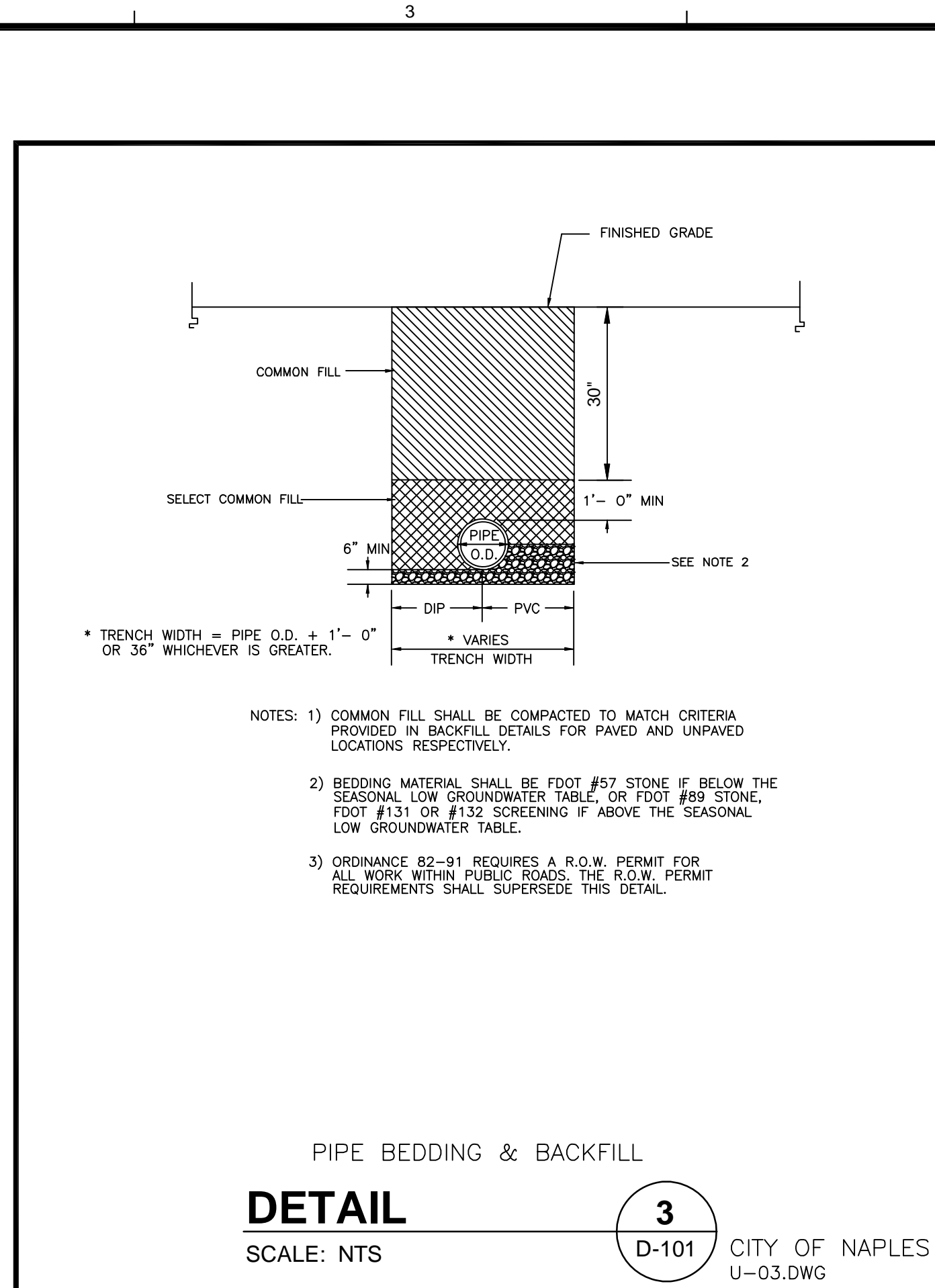
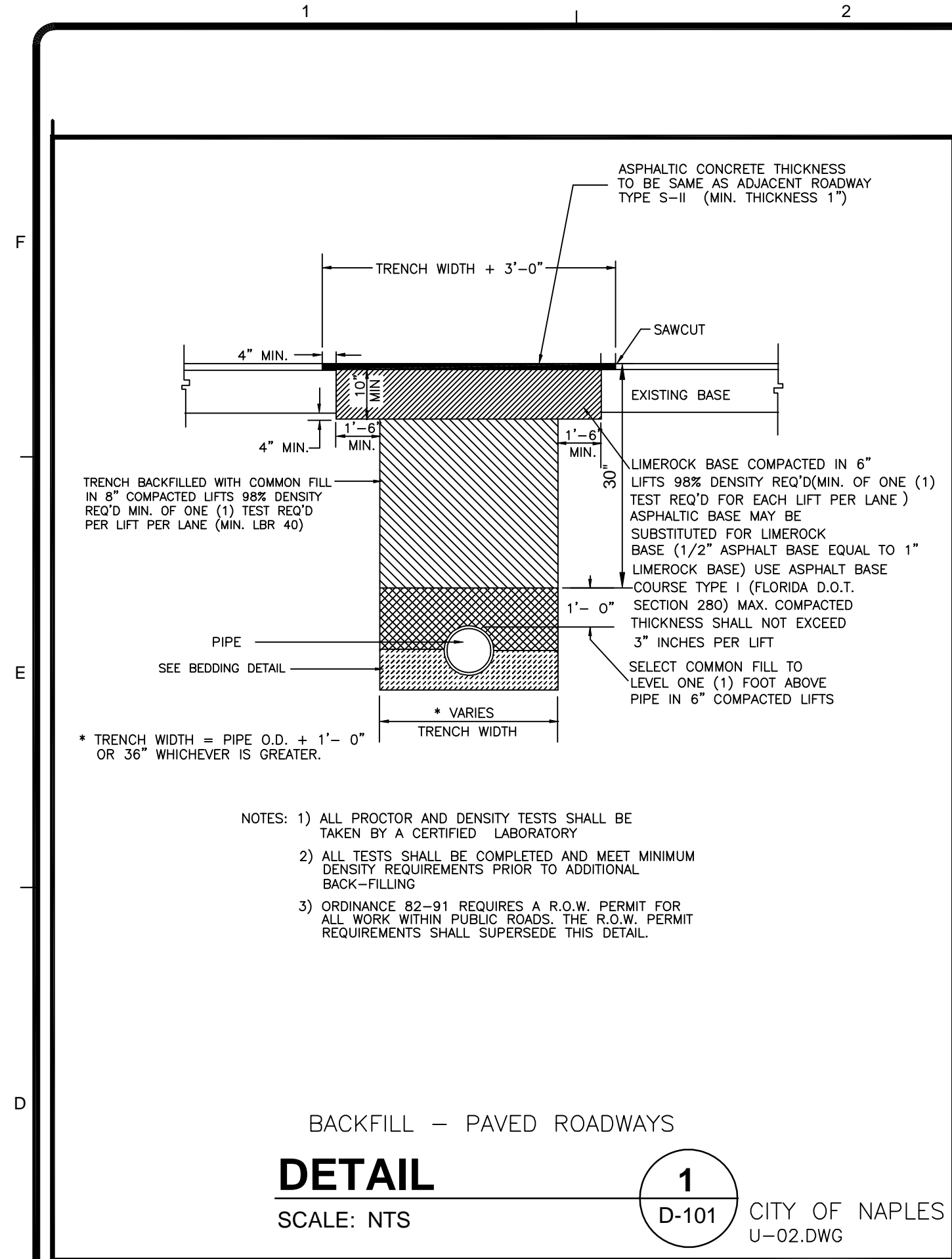
CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
SNOOK DRIVE- FORCEMAIN
CITY REFERENCE DRAWING

Project No.: 200-08516-14002
Designed By: TW
Drawn By: WJ
Checked By: DN

C-111
Sheet

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Bar Measures 1 inch

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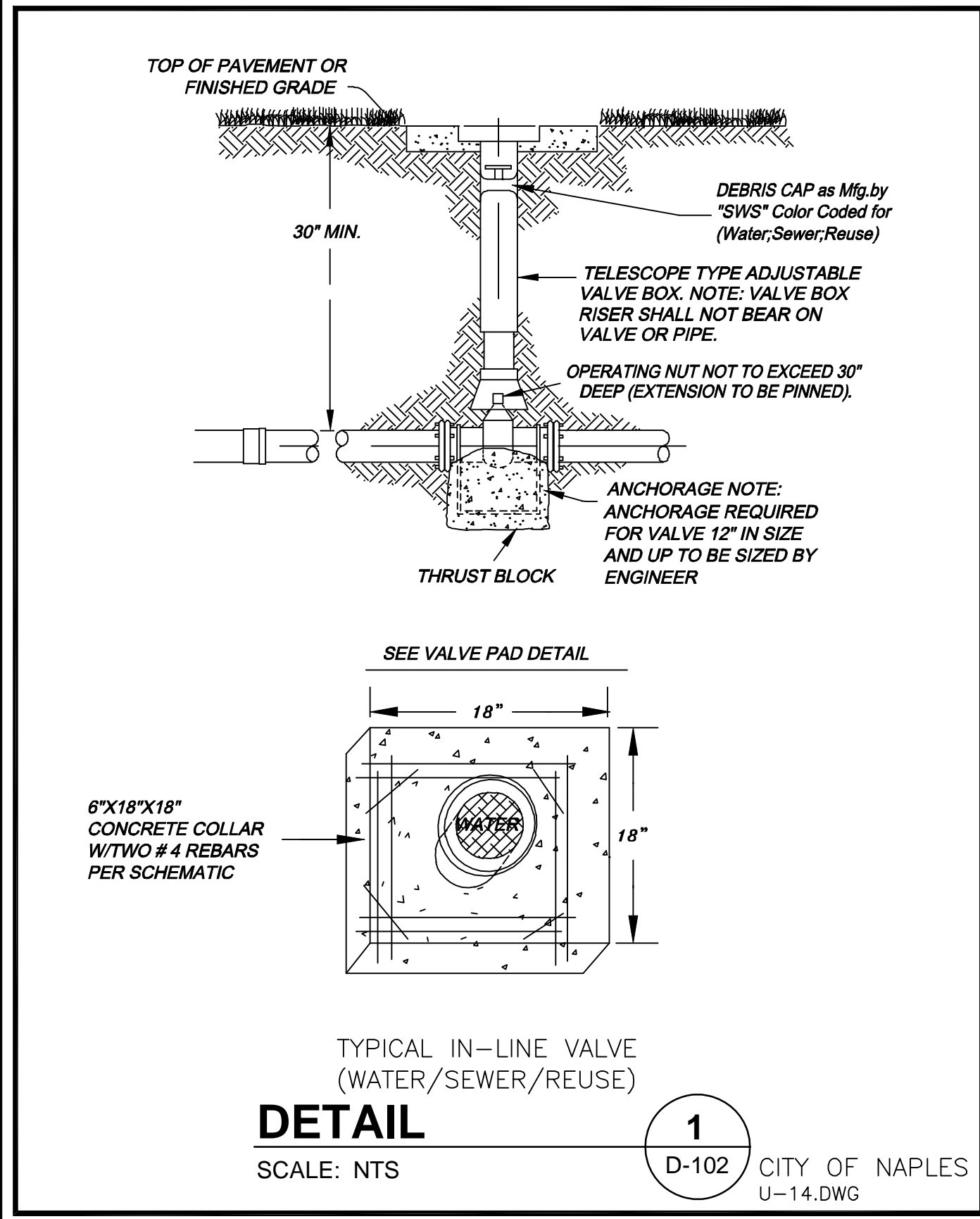
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CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
DETAILS

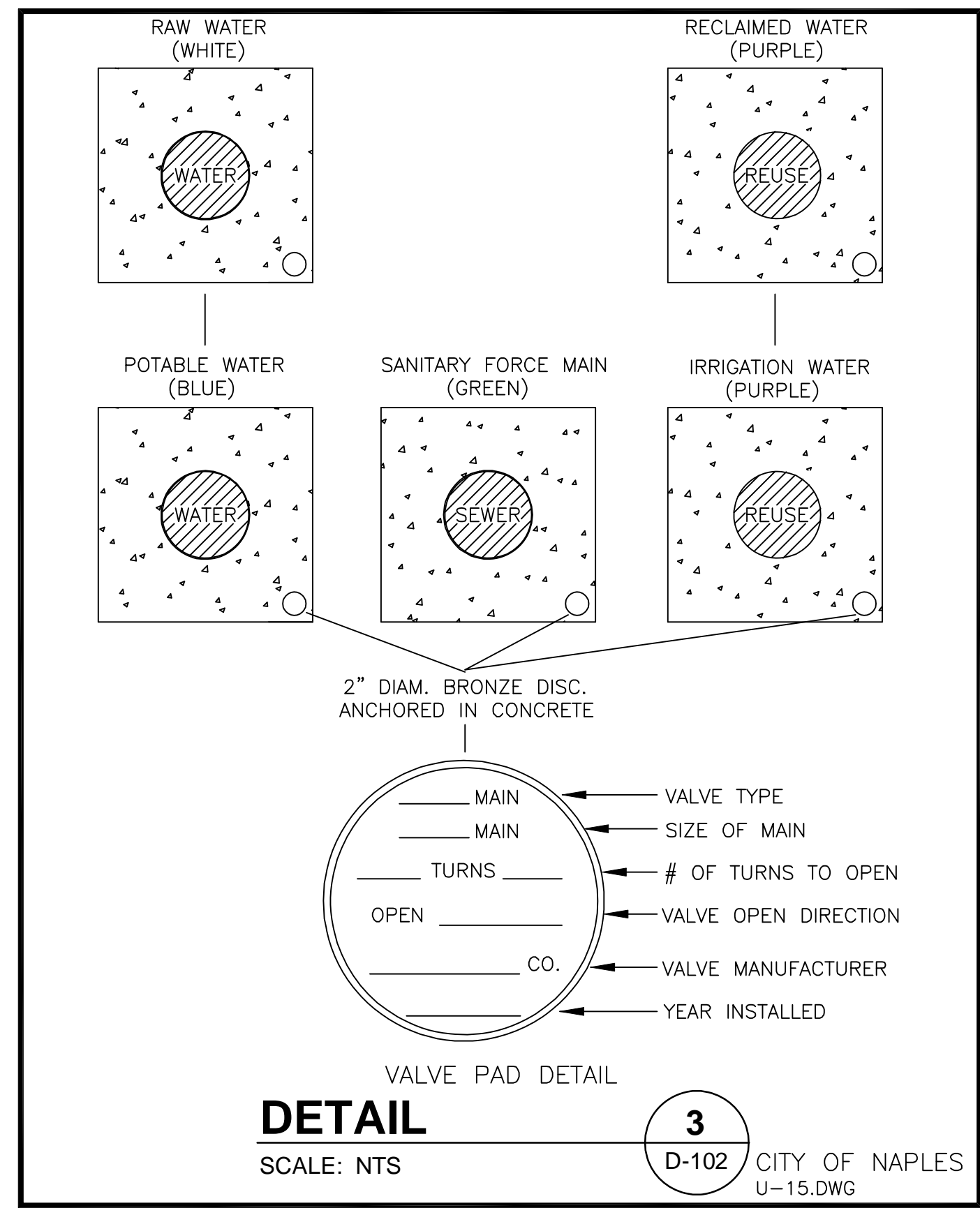
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Designed By: TW
Drawn By: WV
Checked By: DN

D-101
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Bar Measures 1 inch

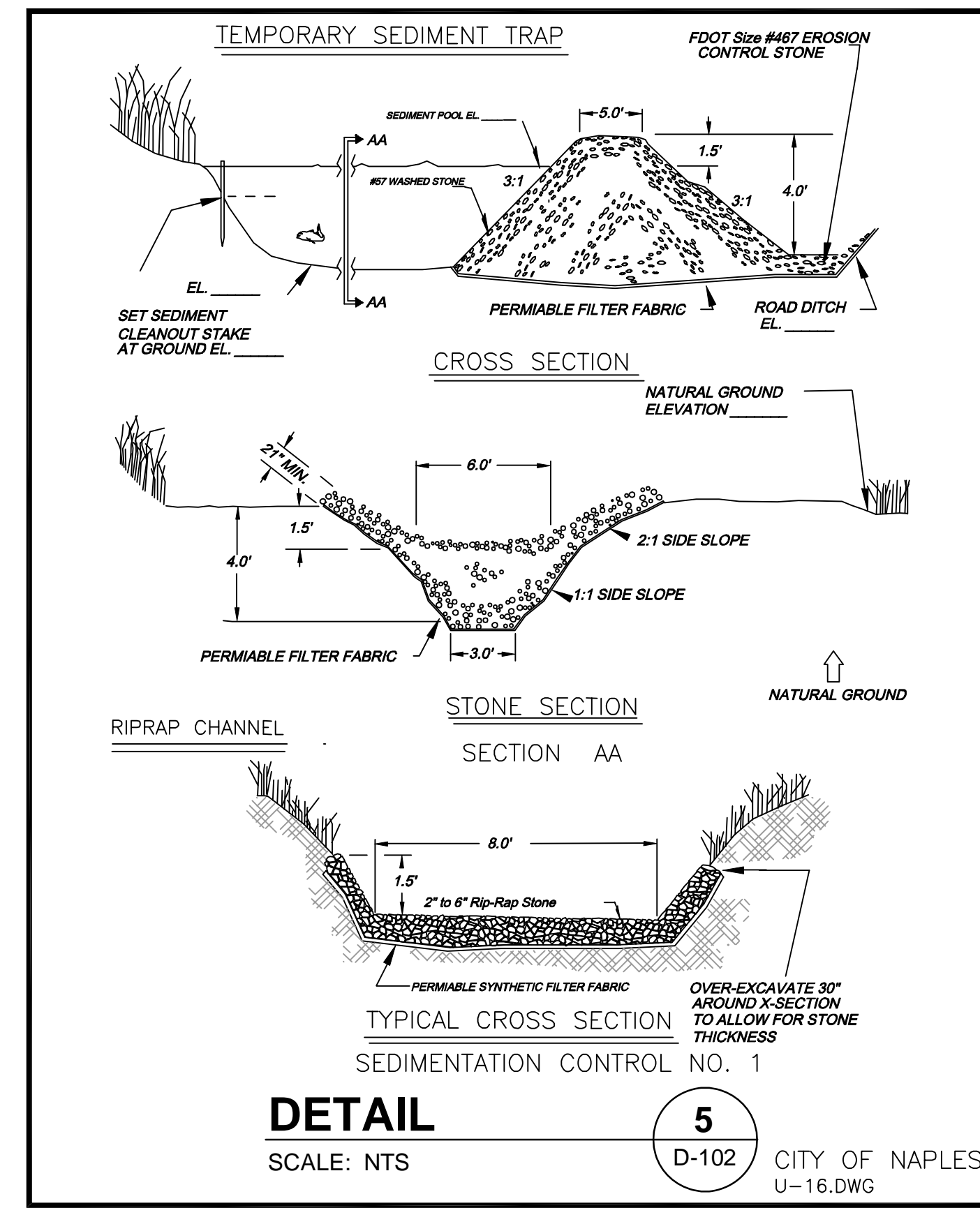
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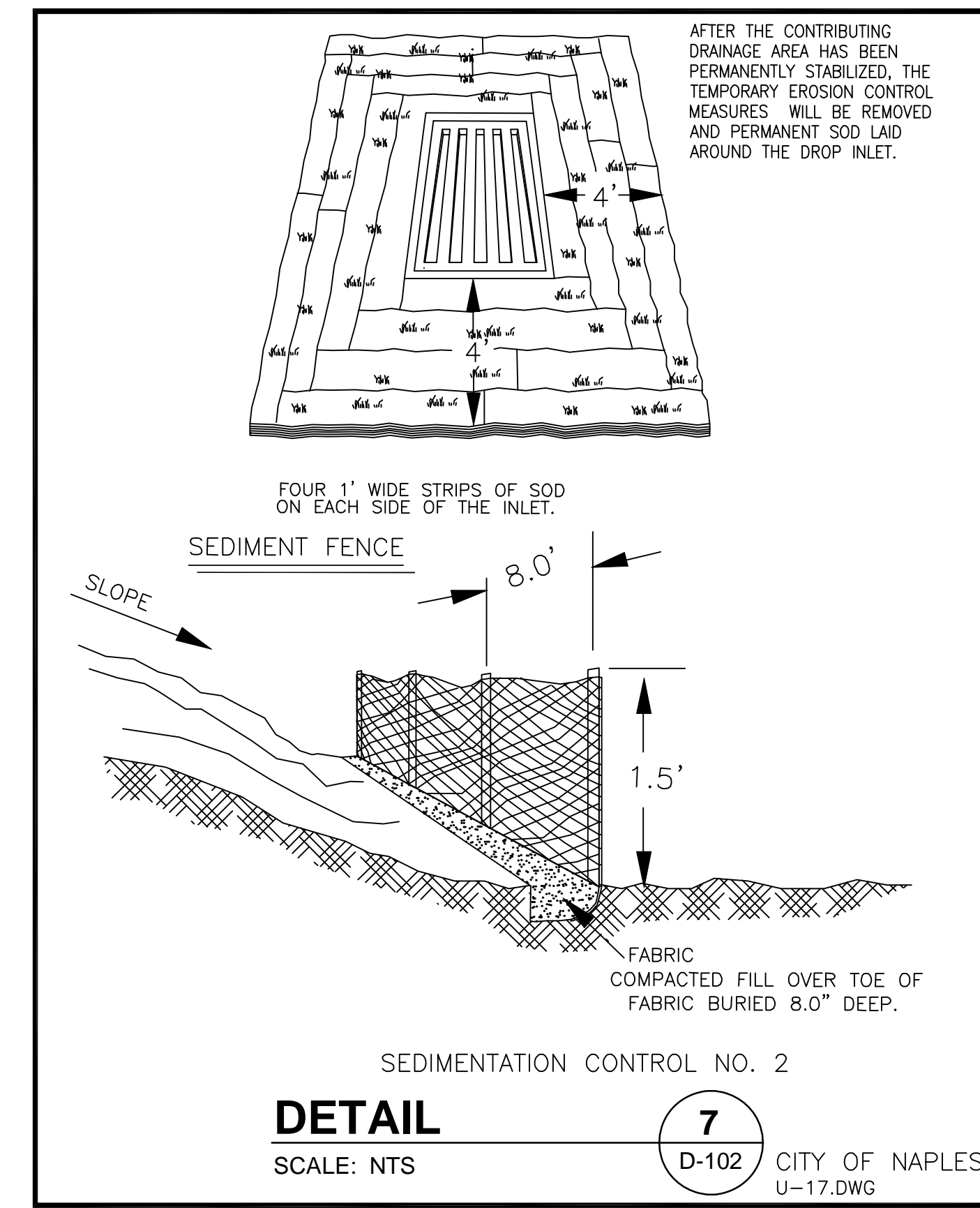
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D-102 CITY OF NAPLES U-14.DWG



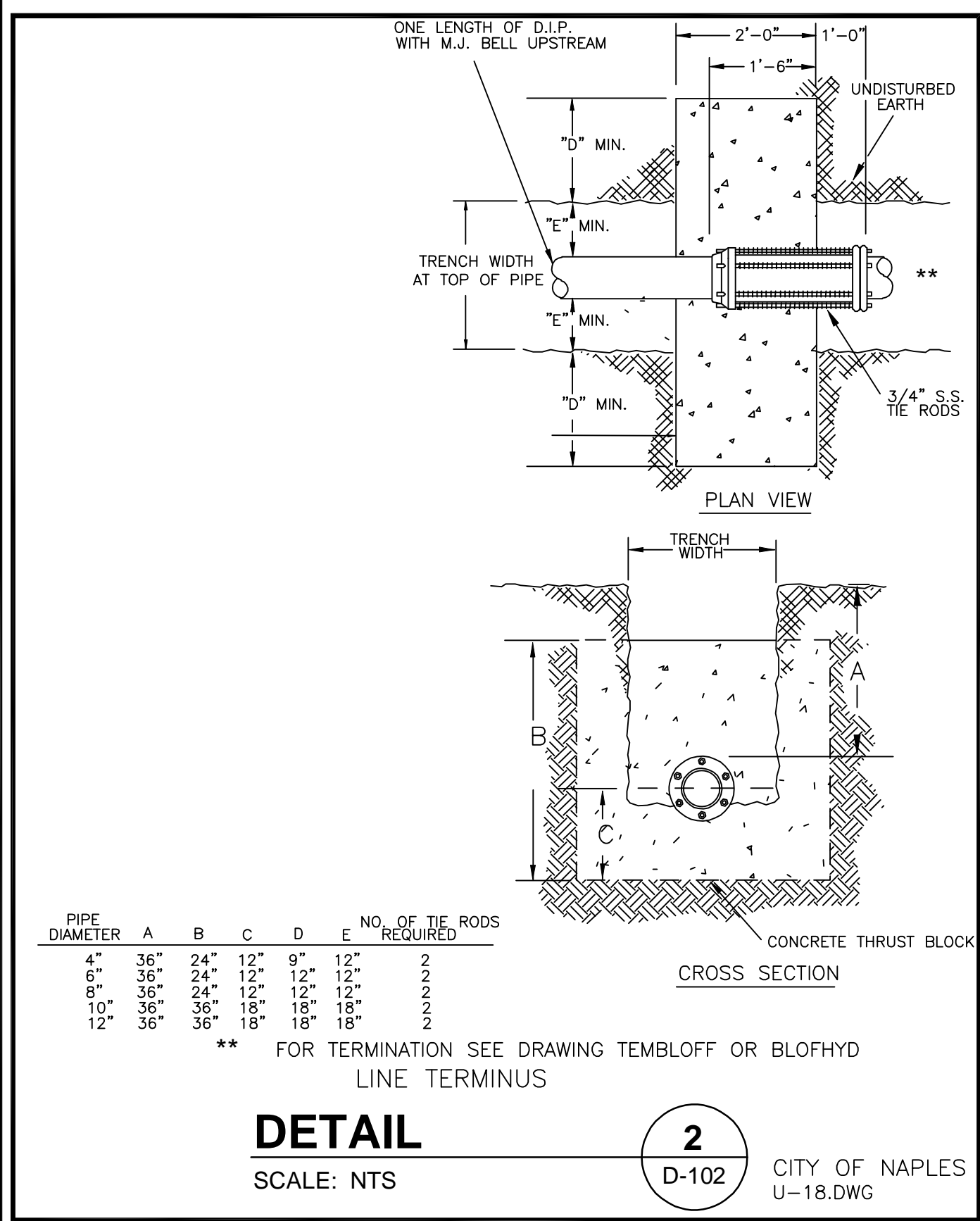
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D-102 CITY OF NAPLES U-15.DWG



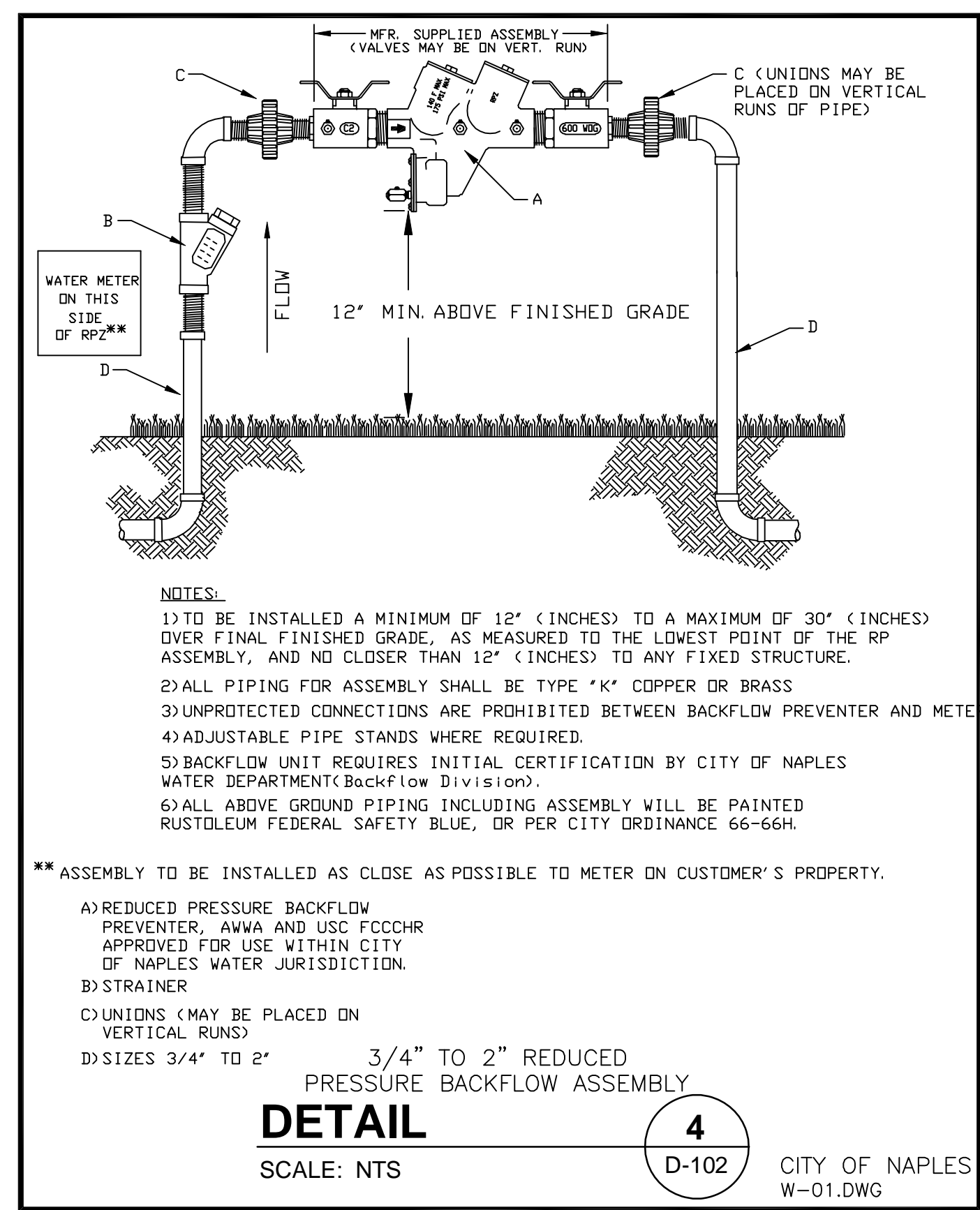
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SCALE: NTS
D-102 CITY OF NAPLES U-16.DWG



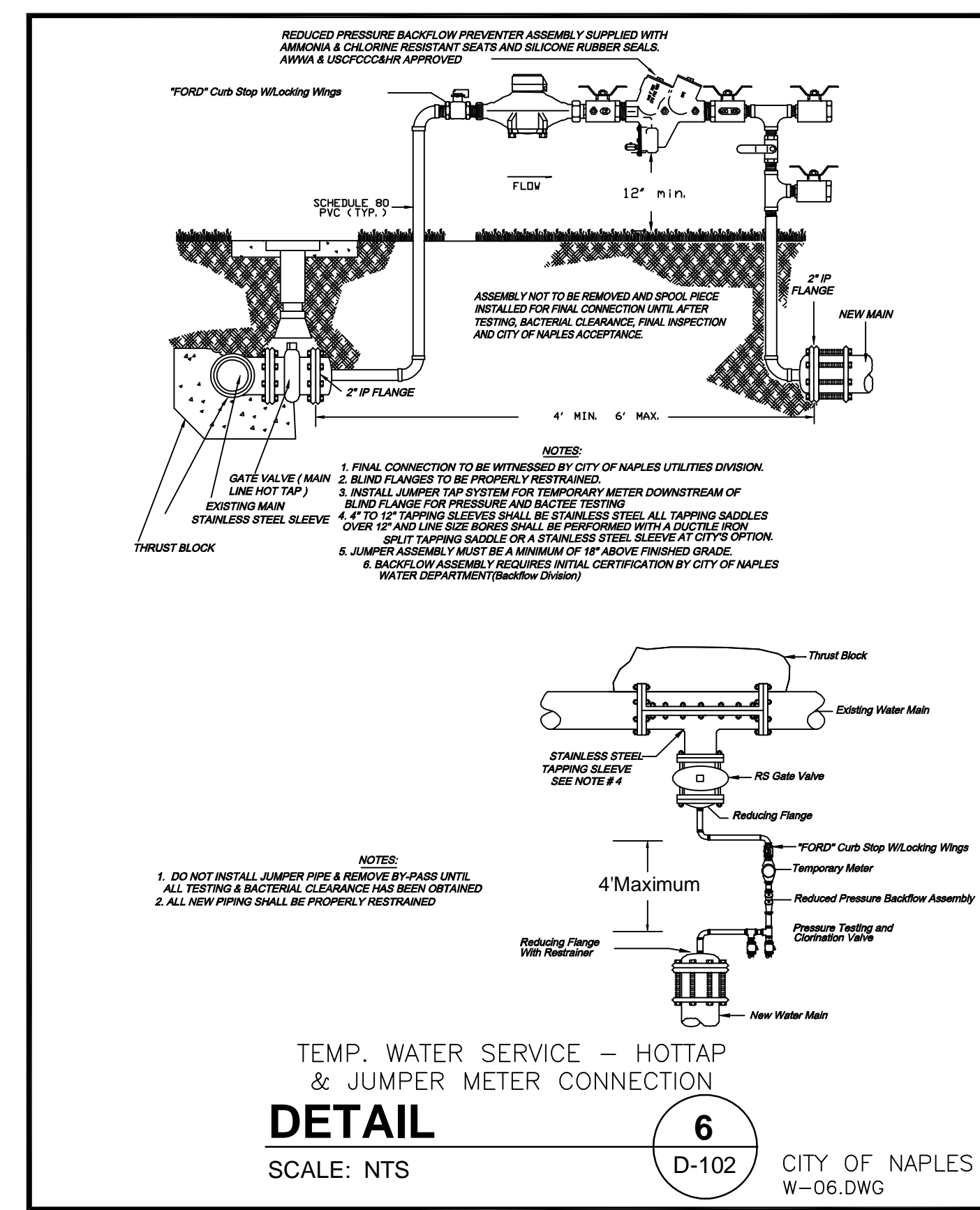
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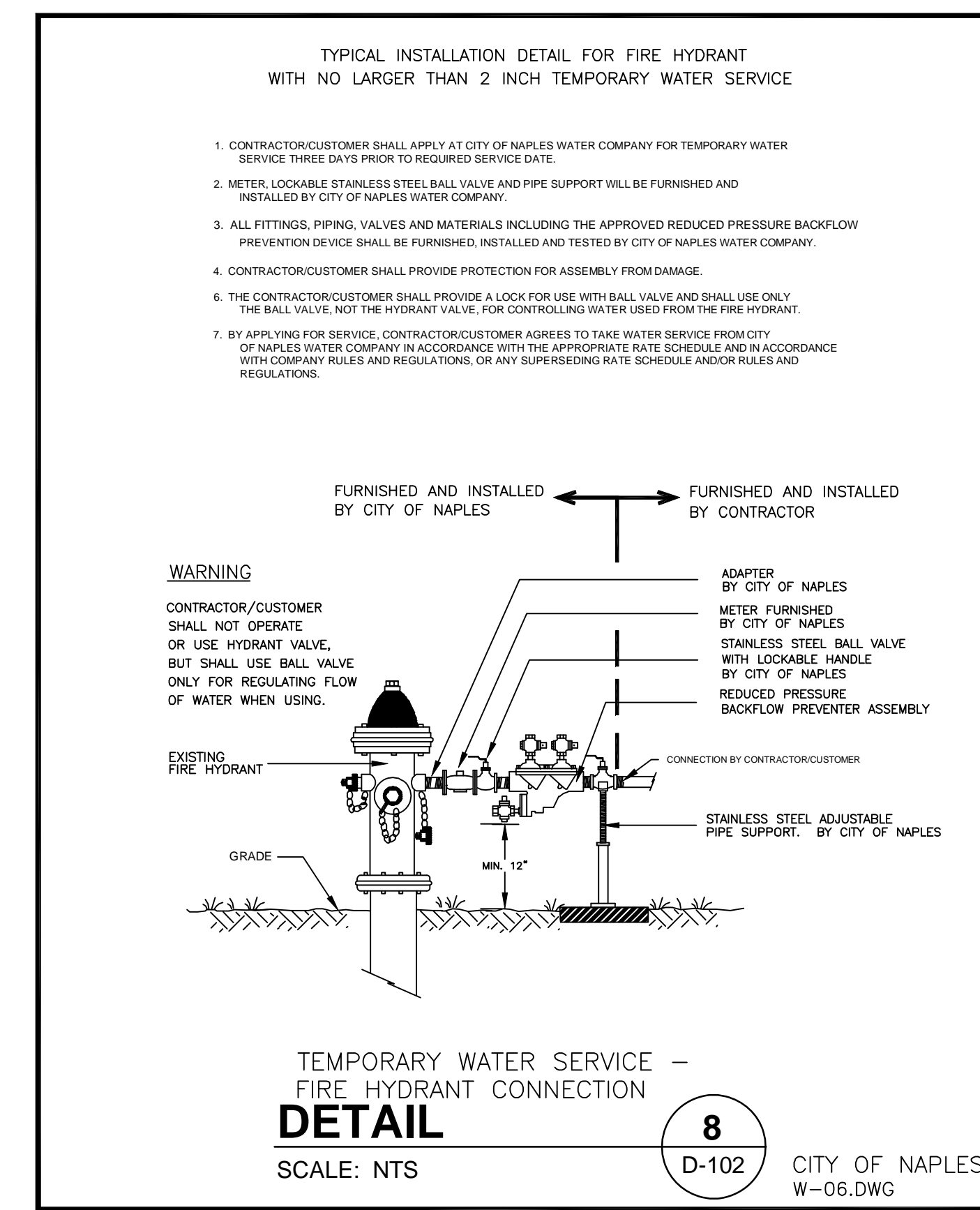
DETAIL 2
SCALE: NTS
D-102 CITY OF NAPLES U-18.DWG



DETAIL 4
SCALE: NTS
D-102 CITY OF NAPLES W-01.DWG



DETAIL 6
SCALE: NTS
D-102 CITY OF NAPLES W-06.DWG



DETAIL 8
SCALE: NTS
D-102 CITY OF NAPLES W-06.DWG

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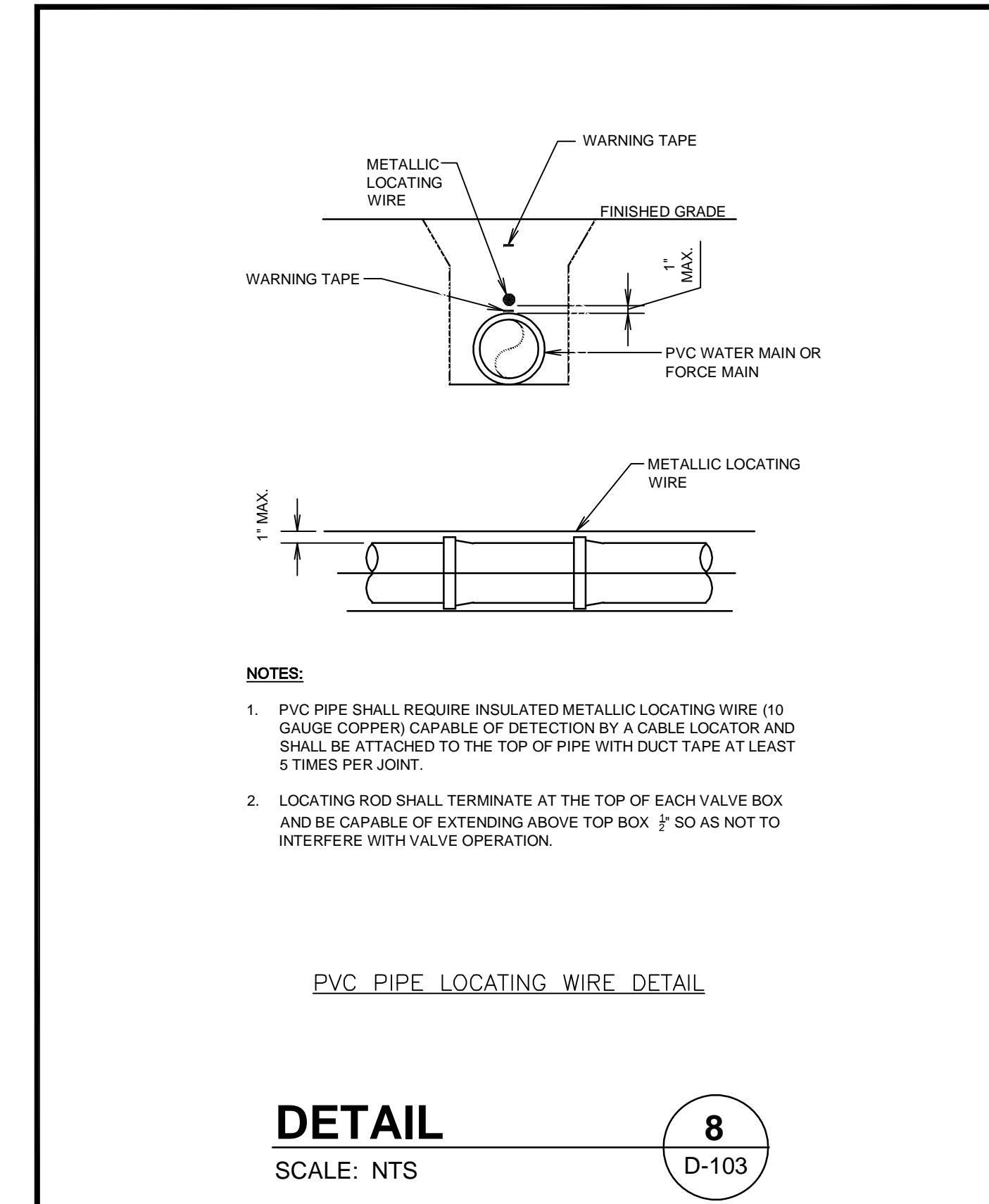
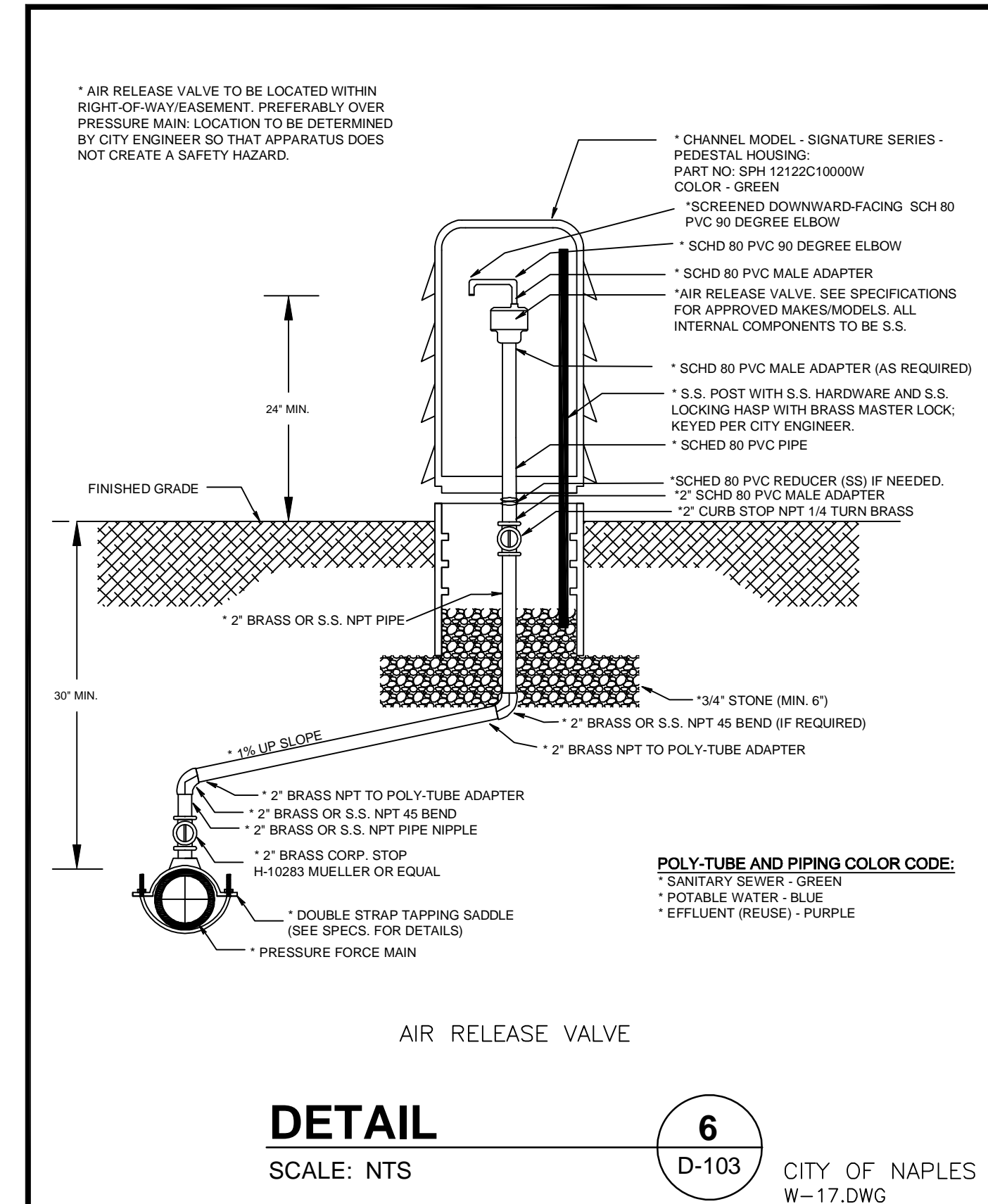
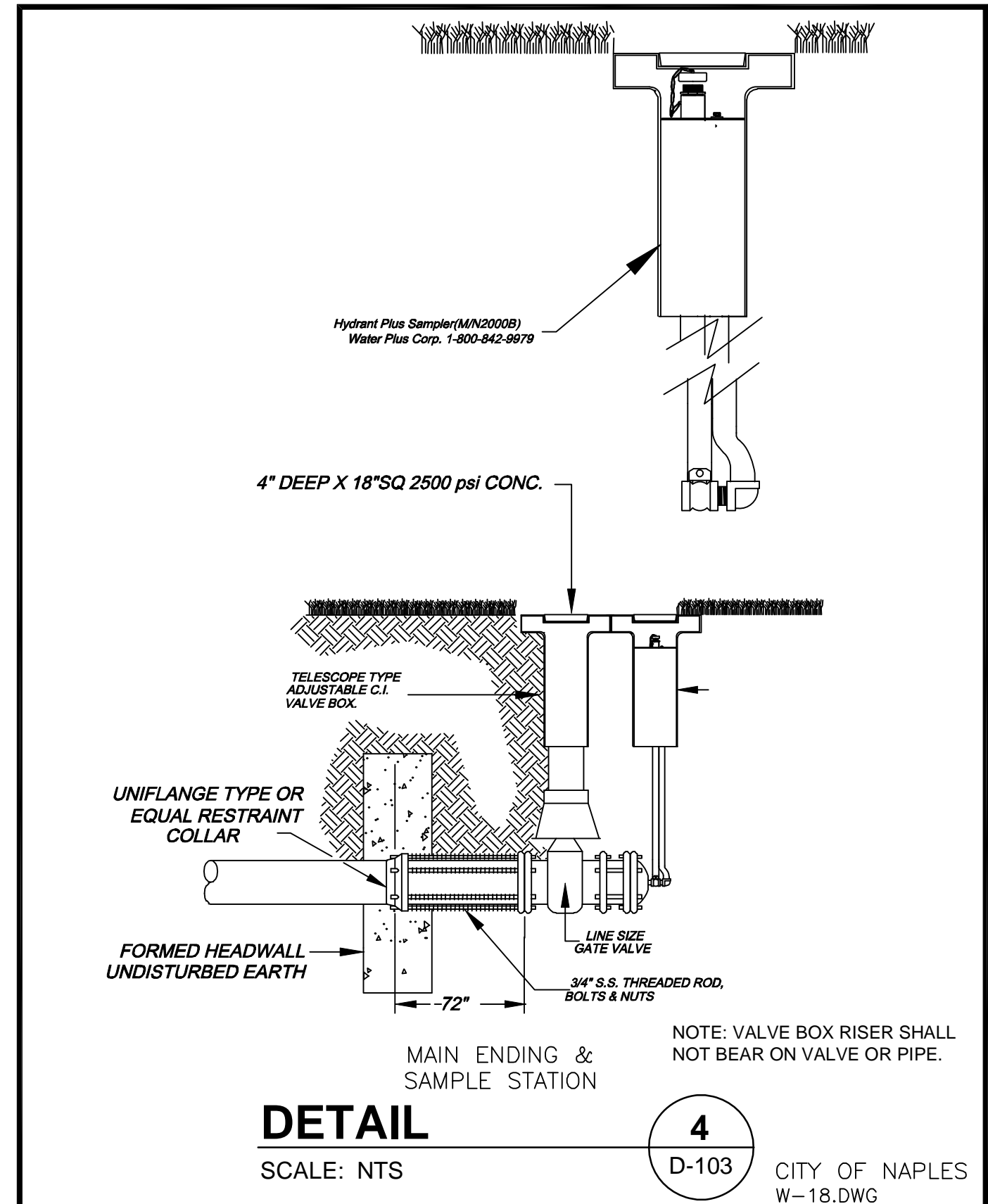
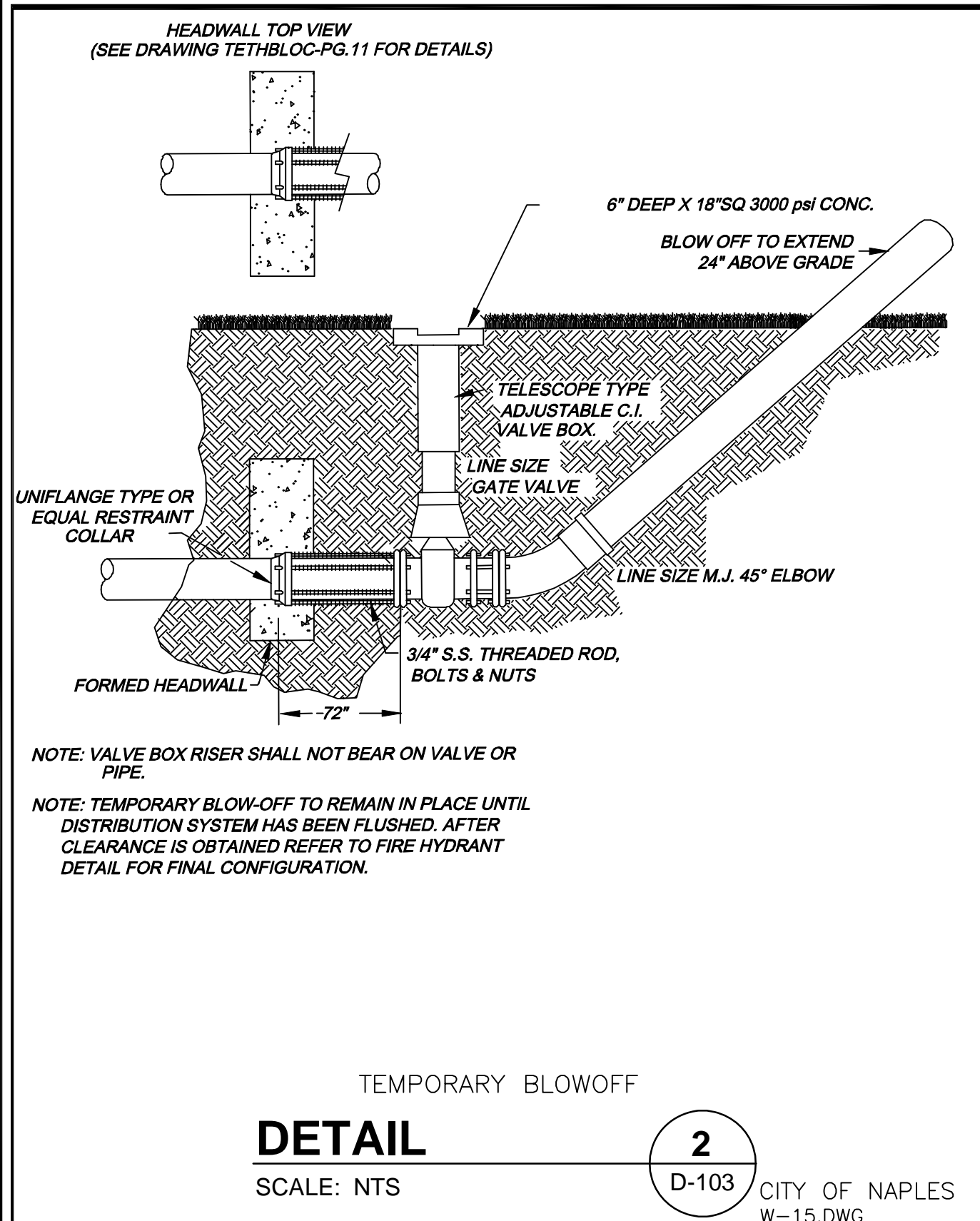
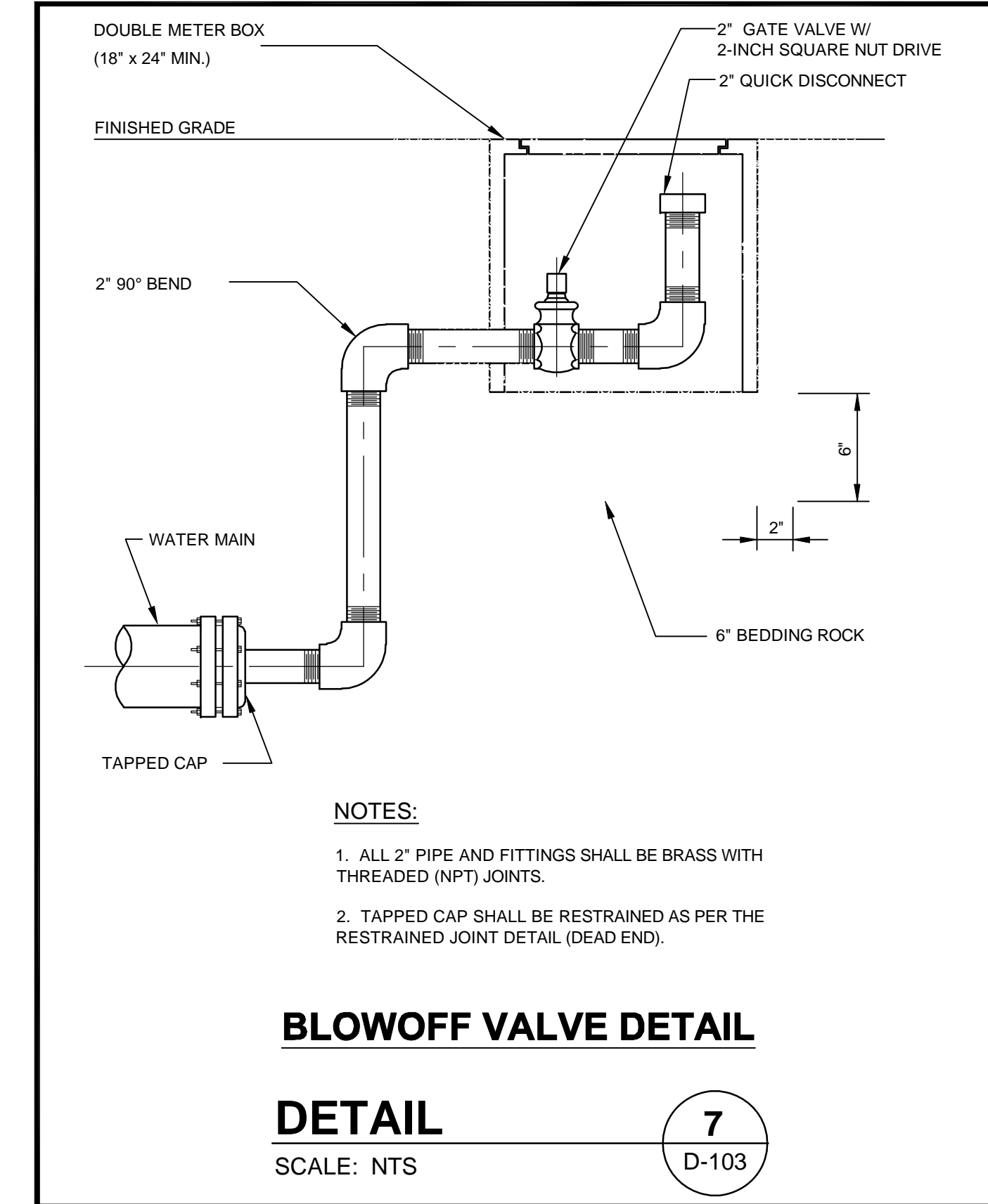
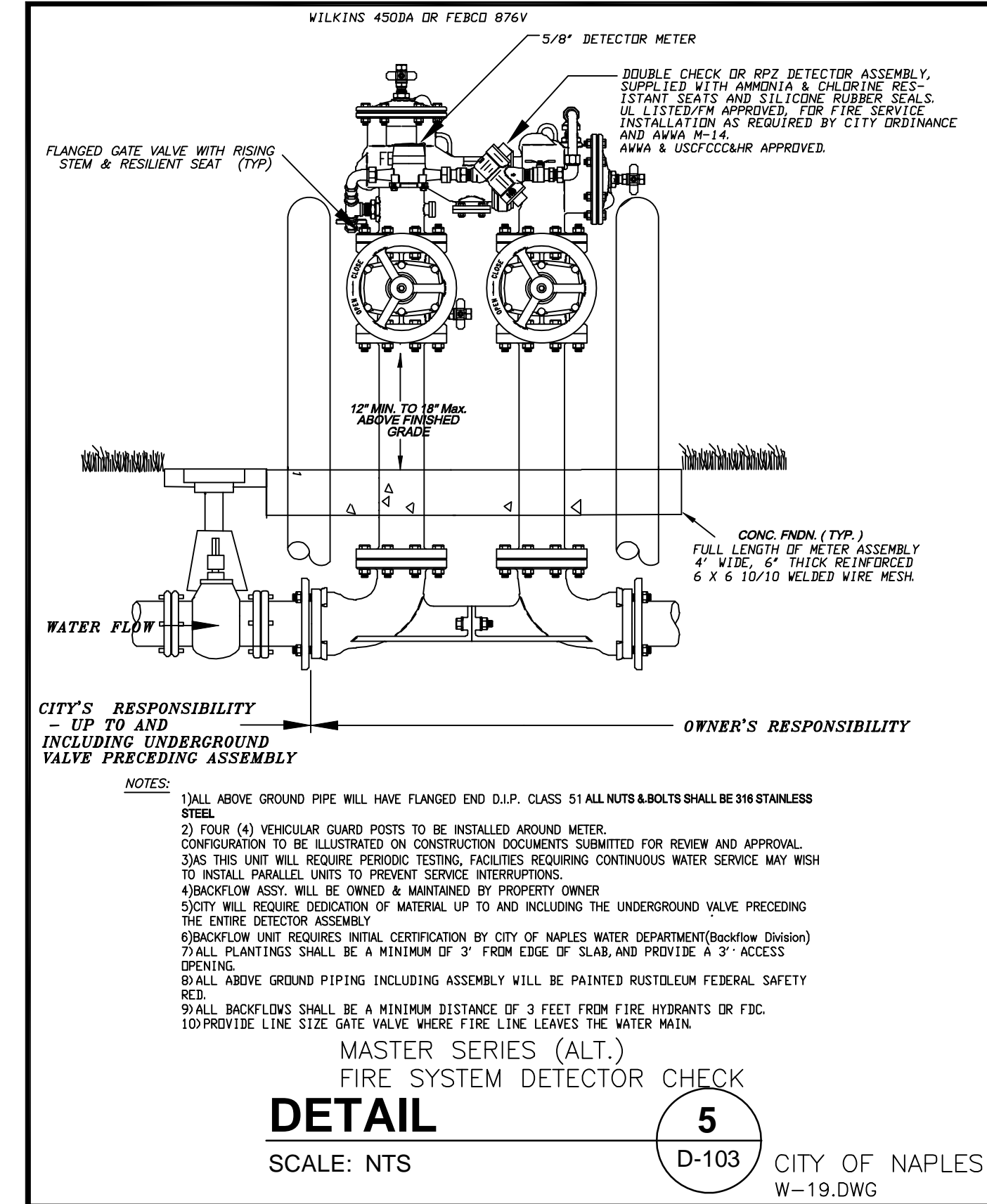
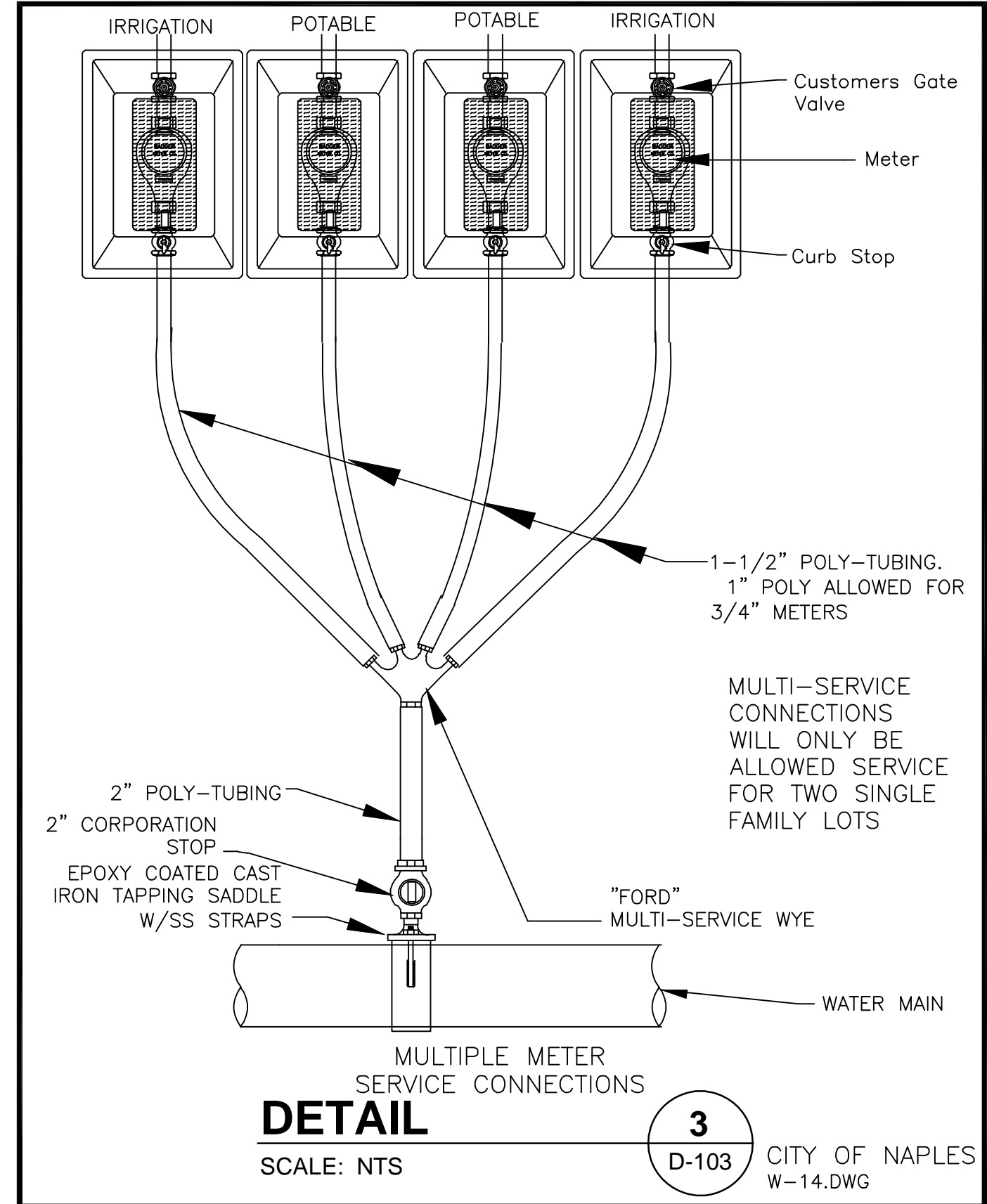
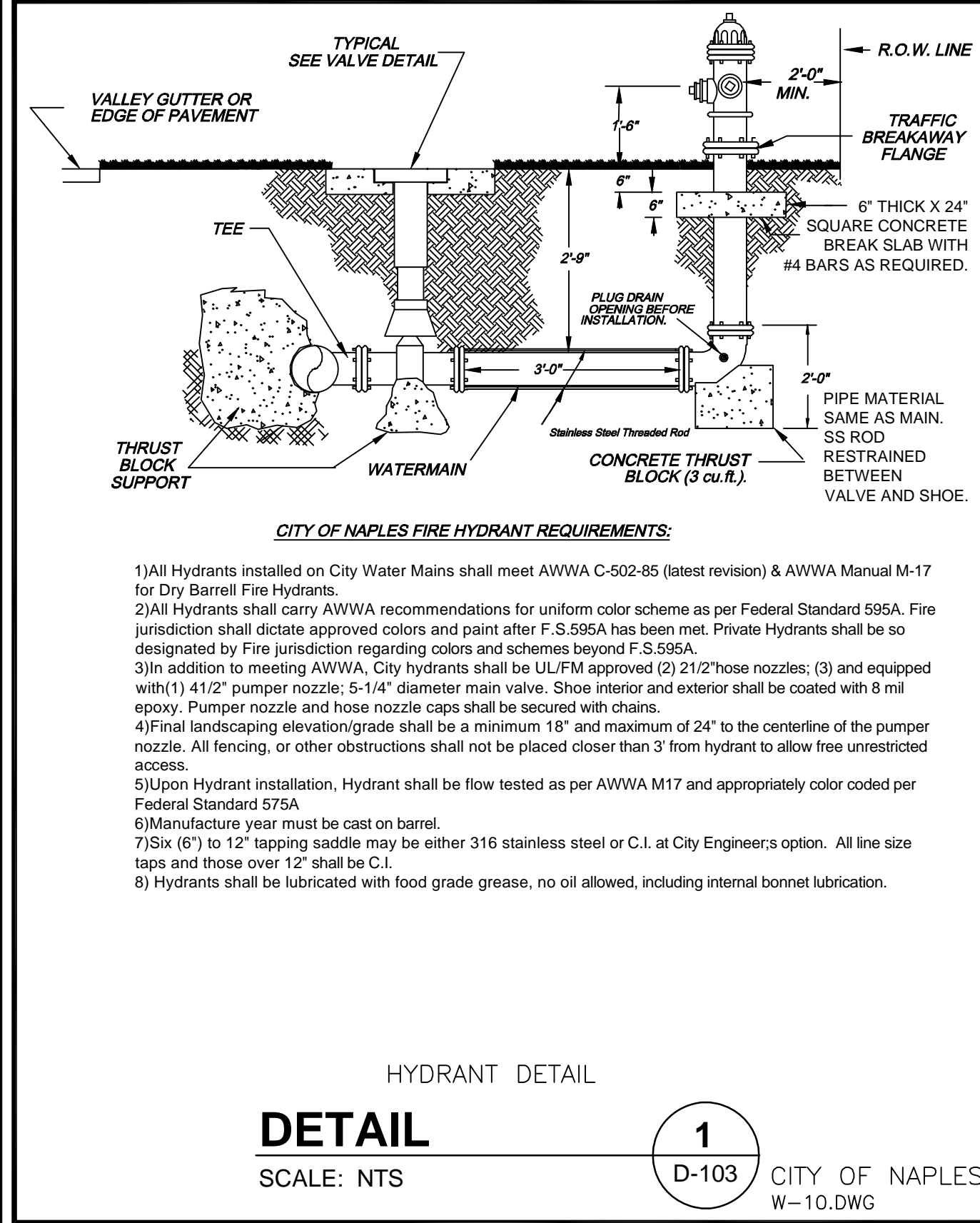
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CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
DETAILS

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D-102
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P.E. No. 77059, FL
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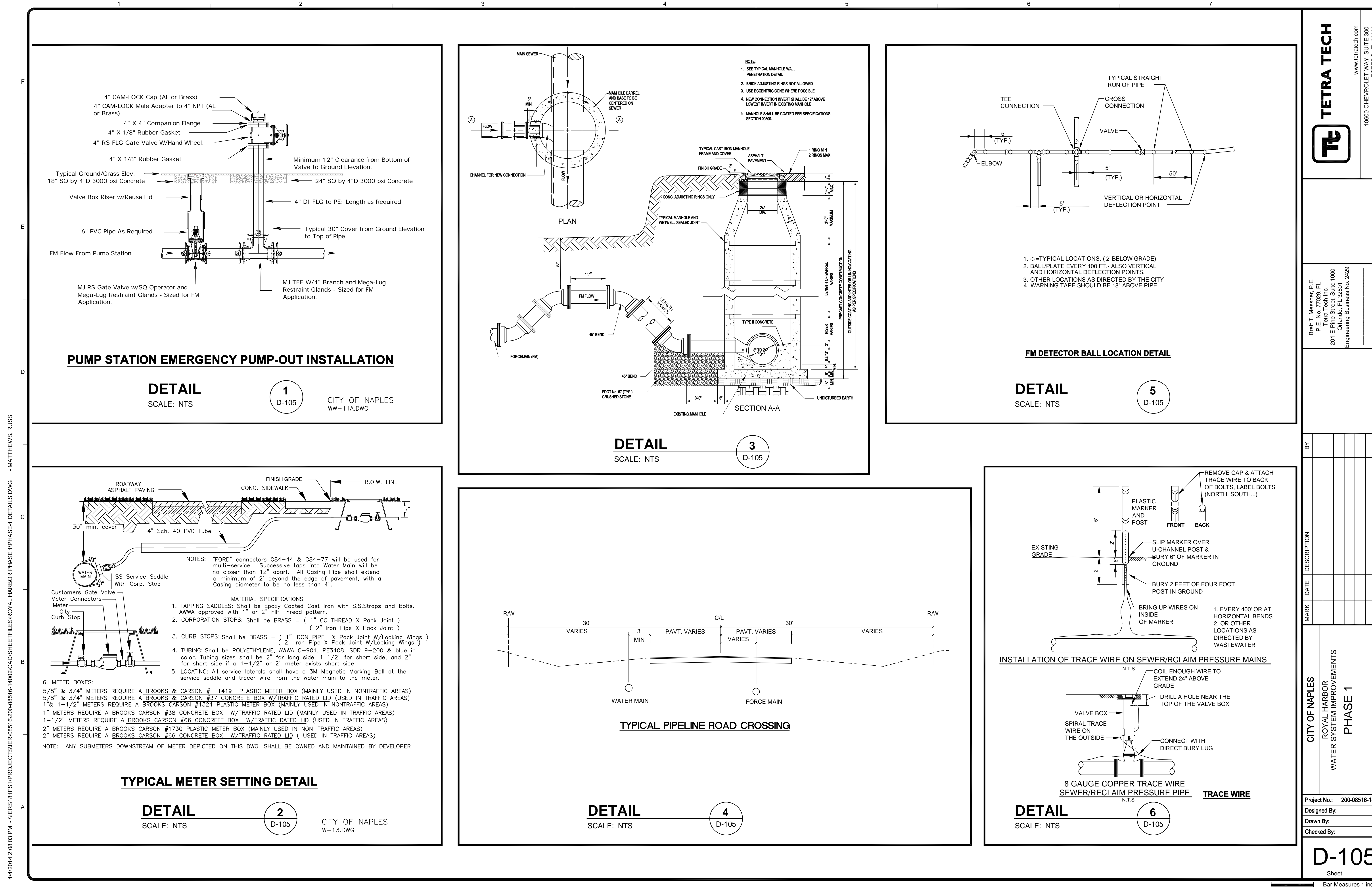
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CITY OF NAPLES
ROYAL HARBOR
WATER SYSTEM IMPROVEMENTS
PHASE 1
DETAILS

Project No.: 200-08516-14002
Designed By: BM
Drawn By: JW
Checked By: DN

D-103
Sheet
Bar Measures 1 inch

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PUMP STATION EMERGENCY PUMP-OUT INSTALLATION

DETAIL 1

SCALE: NTS

1
D-105

CITY OF NAPLES
WW-11A.DWG

DETAIL 3

SCALE: NTS

3
D-105

DETAIL 5

SCALE: NTS

5
D-105

TYPICAL METER SETTING DETAIL

DETAIL 2

SCALE: NTS

2
D-105

CITY OF NAPLES
W-13.DWG

DETAIL 4

SCALE: NTS

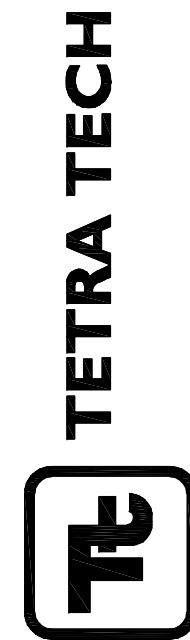
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D-105

DETAIL 6

SCALE: NTS

6
D-105

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P.E. No. 77099, FL
Tetra Tech Inc.
201 E Pine Street, Suite 1000
Orlando, FL 32801
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PHASE 1
DETAILS

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D-105
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Bar Measures 1 inch

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