NAVAL STATION NEWPORT
NEWPORT, RI

POTABLE WATER DISTRIBUTION UPGRADES - PHASE 3

eProject No. 1362578
NOVEMBER 2015

LIST OF DRAWINGS

SHEET NO.	DISCIPLINE NO.	NAVFAC NO.	NAVSTA NO.	DRAWING TITLE
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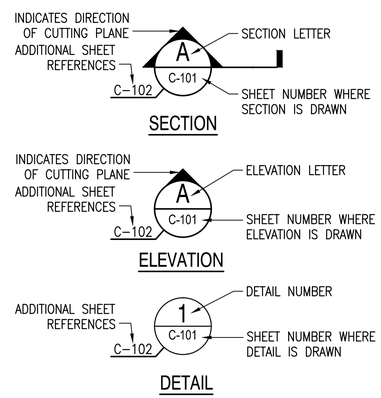
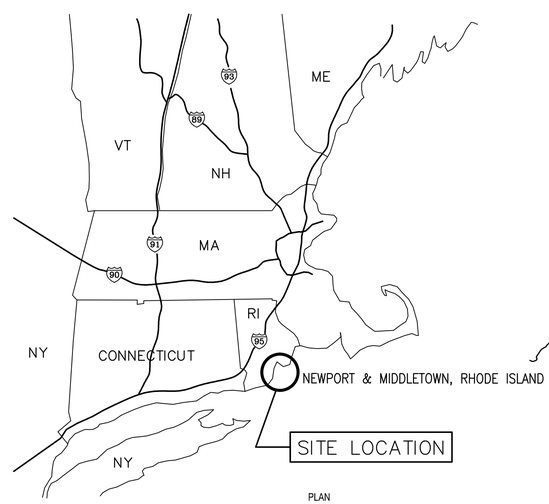
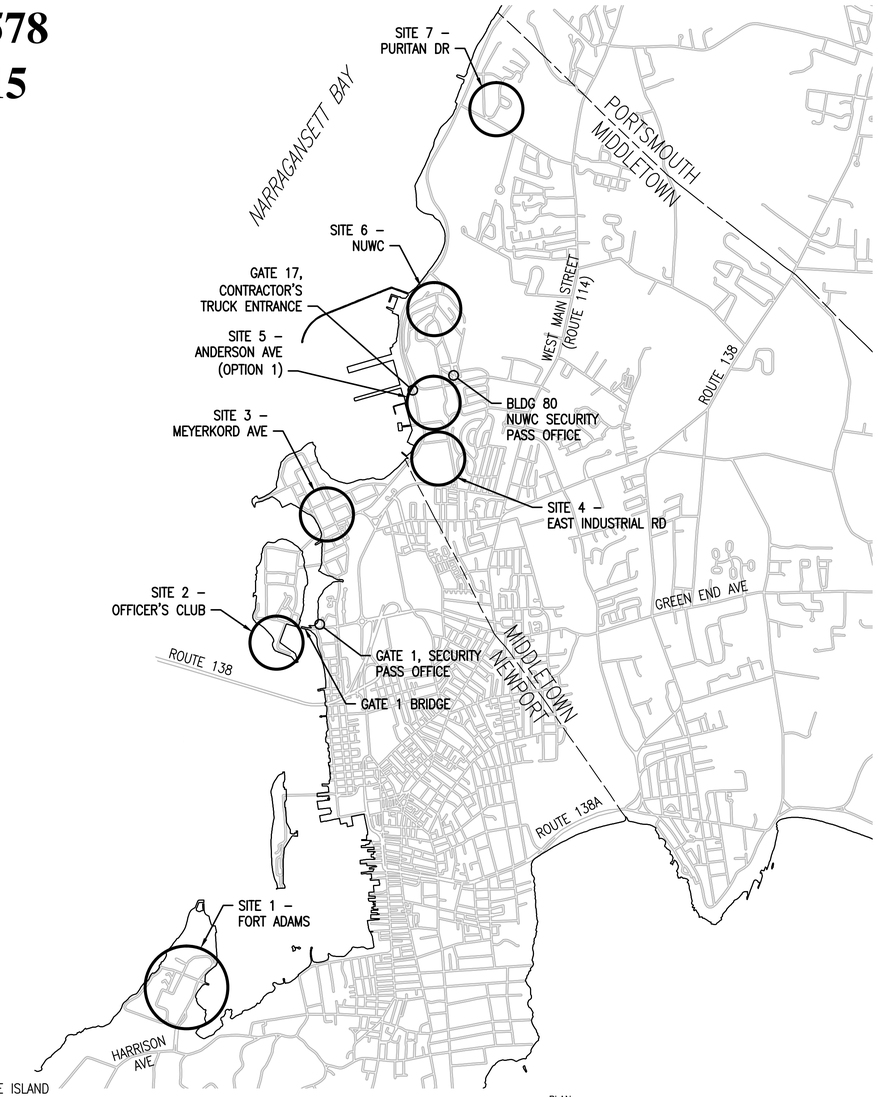
ELEVATION, SECTION OR DETAIL SYMBOLS





VICINITY MAP
SCALE: NTS
PLAN NORTH



LOCATION MAP
SCALE: 1"=2,500'
PLAN NORTH

2,500' 0 2,500' 5,000'
1"=2,500'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
DAVID P. ANDERSON
CIVIL
No. 37119
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MN FST
A JOINT VENTURE
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
TITLE SHEET

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706448
SHEET 1 OF 46
G-001 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\01 General\G-001-002 TITLE SHEET.dwg LAYOUT NAME: G-001 PLOTTED: Tuesday, November 17, 2015 - 3:24pm USER: Stockp_R

ABBREVIATIONS:

ABAND	ABANDONED
AC	ASBESTOS CEMENT (TRANSITE)
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	BEND
BIT	BITUMINOUS
BIT CONC	BITUMINOUS CONCRETE
BCC	BITUMINOUS CONCRETE CURB
BL	BASELINE
C	CONDUIT
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CIP	CAST IRON PIPE
℄	CENTER LINE
CEM	CEMENT
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
C.T.E.	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA OR ø	DIAMETER
DICL	DUCTILE IRON CEMENT LINED
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
DWG	DRAWING
E	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRICAL MANHOLE
EXIST	EXISTING
FLG	FLANGE
FT	FOOT
G	GAS
GC	GRANITE CURB
GW	GRANITE WALL
GV	GATE VALVE
HORIZ.	HORIZONTAL
ID	INSIDE DIAMETER
INV	INVERT
LB OR LBS	POUNDS
LF	LINEAR FEET
MAX.	MAXIMUM
MH	MANHOLE
MHW	MEAN HIGH WATER
MIN.	MINIMUM
MLW	MEAN LOW WATER
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
R	REDUCER
REINF	REINFORCEMENT
S	SEWER
SMH	SEWER MANHOLE
STA.	STATION
STM	STEAM
T	TELEPHONE
TMH	TELEPHONE MANHOLE
TS & GV	TAPPING SLEEVE AND GATE VALVE
TYP.	TYPICAL
UP	UTILITY POLE
VEG	VEGETATION
VERT.	VERTICAL
W	WATER
WG	WATER GATE

GENERAL NOTES:

1. NOTIFY THE CONTRACTING OFFICER A MINIMUM OF 15 DAYS PRIOR TO PLANNED UTILITY SERVICE INTERRUPTIONS. OBTAIN APPROVAL PRIOR TO INTERRUPTING UTILITY SERVICES.
2. OBTAIN APPROVAL FROM THE CONTRACTING OFFICER FOR THE PHASING SCHEDULE OF OPERATIONS PRIOR TO COMMENCING WORK.
3. DURING CONSTRUCTION, MAINTAIN THE CONSTRUCTION SITE IN A NEAT, CLEAN, SAFE AND SECURE MANNER. PROVIDE WEATHER PROTECTION FOR ITEMS AND MATERIALS, INCLUDING SOIL MATERIALS, THAT ARE SUSCEPTIBLE TO DAMAGE FROM INCLEMENT WEATHER.
4. TAKE CARE TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. REPAIR OR REPLACE DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS, SUBJECT TO APPROVAL BY THE CONTRACTING OFFICER, AT NO ADDITIONAL COST TO THE GOVERNMENT. FILL, PATCH, PAINT OR OTHERWISE REFINISH EXISTING REMAINING SURFACES DISTURBED BY DEMOLITION, RELOCATION OR CONSTRUCTION TO MATCH EXISTING ADJACENT SURFACES.
5. DISPOSE OF AND/OR RECYCLE CONSTRUCTION DEBRIS FROM THE PROJECT SITE AS REQUIRED BY THE STATE OF RHODE ISLAND AND AS REQUIRED BY THE CONTRACT. PAY FEES AND OBTAIN REQUIRED DISPOSAL PERMITS.
6. CONTACT A PRIVATE UTILITY LOCATING COMPANY AND SCAN THE CONSTRUCTION SITE WITH ELECTROMAGNETIC OR SONIC EQUIPMENT. MARK THE SURFACE OF THE GROUND WITHIN THE LIMIT OF WORK WHERE EXISTING UNDERGROUND UTILITIES ARE DISCOVERED. PROTECT EXISTING UNDERGROUND UTILITIES DURING EXCAVATION AND CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR IS ADVISED THAT THE DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR MUST KEEP A COPY OF THE DRAWINGS AND SPECIFICATIONS ONSITE AT ALL TIMES DURING THE PROJECT.
8. EXISTING CONDITIONS DRAWINGS ARE INTENDED TO PROVIDE GENERAL OVERVIEW OF STRUCTURES BUT DO NOT INCLUDE ALL APPURTENANCES AND CONDITIONS. CONTRACTOR TO VERIFY EXISTING UTILITIES PRIOR TO EXCAVATION.
9. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE AFFECTED PART OF THE WORK.
10. PROVIDE AND MAINTAIN HORIZONTAL AND VERTICAL SURVEY CONTROLS IN ACCORDANCE WITH THE PROJECT SURVEY CONTROLS, SEE V-100 THROUGH V-116. HORIZONTAL CONTROL IS BASED ON THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NAVD 29).
11. THE EXACT SIZE AND LOCATION OF ALL EXISTING UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. CONTRACTOR MUST TAKE CARE TO PROTECT UTILITIES IN THE WORK AREA AND ALL CONSTRUCTION MUST BE COORDINATED WITH THE CONTRACTING OFFICER.
12. THE CONTRACTOR MUST FIELD VERIFY THE SIZE AND LOCATION OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE WORK PRIOR TO COMMENCING ANY EXCAVATION OR GROUND PENETRATING WORK. THE CONTRACTOR MUST NOTIFY "DIG SAFE" (811) AT LEAST 14 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE EXCAVATION OR GROUND PENETRATING ACTIVITY. THE CONTRACTOR / EXCAVATOR MUST FULLY COMPLY WITH THE STATE OF RHODE ISLAND "DIG SAFE" LAW.
13. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED MUST BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE CONTRACTING OFFICER AT THE CONTRACTOR'S EXPENSE.
14. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE DEMOLITION, CONSTRUCTION AND ERECTION MEANS, METHODS, PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE FACILITIES AND THEIR COMPONENTS DURING DEMOLITION AND ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL MUST REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
15. DIMENSIONS AND DETAILS OF THE EXISTING CONSTRUCTION ARE FROM CONSTRUCTION DRAWINGS AND UTILITY LOCATION MAPS FURNISHED BY THE GOVERNMENT AND FROM FIELD SURVEYS. ALL DIMENSIONS AND DETAILS OF THE EXISTING CONSTRUCTION MUST BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL AND STATE REGULATIONS AND THE REQUIRED PERMITS. ENVIRONMENTAL CONTROLS MUST INCLUDE, BUT NOT BE LIMITED TO, EROSION CONTROL, SEDIMENT CONTROL AND DUST CONTROL.
17. THE GOVERNMENT MAY CHARGE TO THE CONTRACTOR ANY ADDITIONAL COST OF REINSPECTION OR RETEST WHEN PRIOR REJECTION MAKES REINSPECTION OR RETEST NECESSARY.
18. CONDITIONS SHOWN MAY NOT REFLECT WORK DONE BY OTHERS BETWEEN THE TIME OF CONTRACT DOCUMENTATION AND CONTRACT AWARD.
19. EXISTING CONDITIONS SEE SHEET V-100 THROUGH V-116.

ENVIRONMENTAL CONTROL NOTES:

1. ENVIRONMENTAL CONTROLS MUST CONFORM TO ALL STATE, LOCAL AND FEDERAL REGULATIONS AND PERMITS.
2. PROVIDE AND MAINTAIN CONTROL MEASURES TO PREVENT DEMOLITION MATERIAL, DEBRIS, WELD SLAG AND WASTE WATERS FROM DEMOLITION AND CONSTRUCTION WORK FROM ENTERING THE STORM WATER DRAINS. IMMEDIATELY REMOVE AND CLEAN FROM THE STORM DRAINS ANY DEMOLITION MATERIAL AND CONSTRUCTION DEBRIS IN THE EVENT THAT SAID MATERIAL OR DEBRIS ENTERS SAID WATERS.
3. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, COASTAL RESOURCES MANAGEMENT COUNCIL AND ARMY CORPS OF ENGINEERS PERMITS.
4. THE CONTRACTOR MUST ENSURE A COPY OF ALL PERMITS ARE MAINTAINED AT THE PROJECT SITE AND THAT ALL PERSONNEL, INCLUDING SUBCONTRACTORS, ARE FULLY AWARE OF THE TERMS AND CONDITIONS OF THE PERMITS. PERMITS MUST BE MADE PART OF ANY SUB-CONTRACTS ENTERED INTO BY THE CONTRACTOR FOR WORK IN JURISDICTIONAL AREAS AT THE SITE AND AUTHORIZED BY THE PERMITS.
5. PROVIDE (DESIGN, INSTALL AND MAINTAIN) A DEWATERING SYSTEM. THE CONTRACTOR MUST INCLUDE ALL COSTS ASSOCIATED WITH ALL DEWATERING EFFORTS REQUIRED TO COMPLETE THE WORK. FAILURE OF THE CONTRACTOR TO PLAN FOR GROUND WATER AND SEA WATER CONDITIONS MUST NOT BE THE BASIS FOR ANY CLAIM NOR EQUITABLE PRICE OR CONTRACT TIME ADJUSTMENTS. ALL DEWATERING SYSTEM COMPONENTS (INCLUDING TANKS, PUMPS, HOSES, FILTERS, ETC) AND STORAGE MUST BE LOCATED WITHIN THE LIMITS OF WORK.

DEMOLITION NOTES:

1. ALL MATERIAL DEMOLISHED AND NOT REUSED OR SALVAGED TO THE GOVERNMENT MUST BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED DAILY FROM THE GOVERNMENT'S PROPERTY. REMOVED MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS.

HAZARDOUS MATERIALS NOTES:

1. HAZARDOUS MATERIALS REQUIRING ABATEMENT TO SUPPORT WATER DISTRIBUTION SYSTEM REPAIRS ARE LISTED IN THE SCHEDULE OF HAZARDOUS MATERIALS TO BE ABATED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL HAZARDOUS MATERIALS AND THE QUANTITIES. ALL HAZARDOUS MATERIALS WITHIN THE SCOPE OF THE WATER MAIN REPAIRS MUST BE ABATED.

SOIL MANAGEMENT PLAN:

1. ATTENTION IS CALLED TO THE REQUIREMENTS OF THE "SOIL MANAGEMENT PLAN, NAVAL STATION NEWPORT, NEWPORT, RI".

ASBESTOS NOTES:

ASBESTOS CONTAINING MATERIALS TO BE REMOVED	LOCATION	QUANTITY
8-INCH ASBESTOS CEMENT PIPE	FORT ADAMS – JACKSON RD	40 LF
8-INCH ASBESTOS CEMENT PIPE	INDUSTRIAL DR	185 LF
8-INCH ASBESTOS CEMENT PIPE	PURITAN DR	150 LF

LEGEND

8" DICL PIPE	WATER MAIN (SIZE INDICATED)
	HYDRANT & GATE VALVE
	GATE VALVE
	TEE
	STEEL CASING
	COUPLING
	REMOVE EXIST WATER MAIN
	ABANDON EXIST WATER MAIN
J-A	WATER SERVICE J – STREET NAME ABBREVIATION A – HOUSE IDENTIFIER
	POLYETHYLENE SERVICE PIPE, CORPORATION STOP AND CURB STOP (SIZE INDICATED IN TABLE)
	SILT SACK
	CAP
	TAPPING SLEEVE AND GATE VALVE
	SHORELINE
OPTION 1	BID ALTERNATE – OPTION 1

1 / C-501	TYPICAL TRENCH DETAIL
2 / C-501	TYPICAL PIPE REMOVAL TRENCH DETAIL
3 / C-501	TYPICAL HYDRANT DETAIL
4 / C-501	TYPICAL WATER SERVICE DETAIL, SEE TABLES ON SHEETS C-101 THROUGH C-112 FOR SERVICE LENGTHS
5 / C-501, 6 / C-501	TYPICAL PIPE RESTRAINT DETAILS
7 / C-502	TYPICAL CEM CONC. SIDEWALK & DRIVEWAY DETAILS
8 / C-502	TYPICAL BIT. CONC. SIDEWALK & DRIVEWAY DETAIL
12 / C-502, 13 / C-502	TYPICAL ROADWAY TRENCH DETAILS
14 / C-502	TYPICAL GRASS TRENCH DETAIL
18 / C-503	TYPICAL WATER SERVICE BLOW-OFF DETAIL
20 / C-503	TYPICAL SILT SACK DETAIL
21 / C-504	TYPICAL STEEL CASING DETAIL
22 / C-504	TYPICAL CHECK VALVE REMOVAL DETAIL

EXISTING FEATURES SHOWN THUS:

FEATURES TO BE PROVIDED UNDER THIS CONTRACT SHOWN THUS:

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS | DRW RJS | CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

GENERAL NOTES, LEGEND & ABBREVIATIONS

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

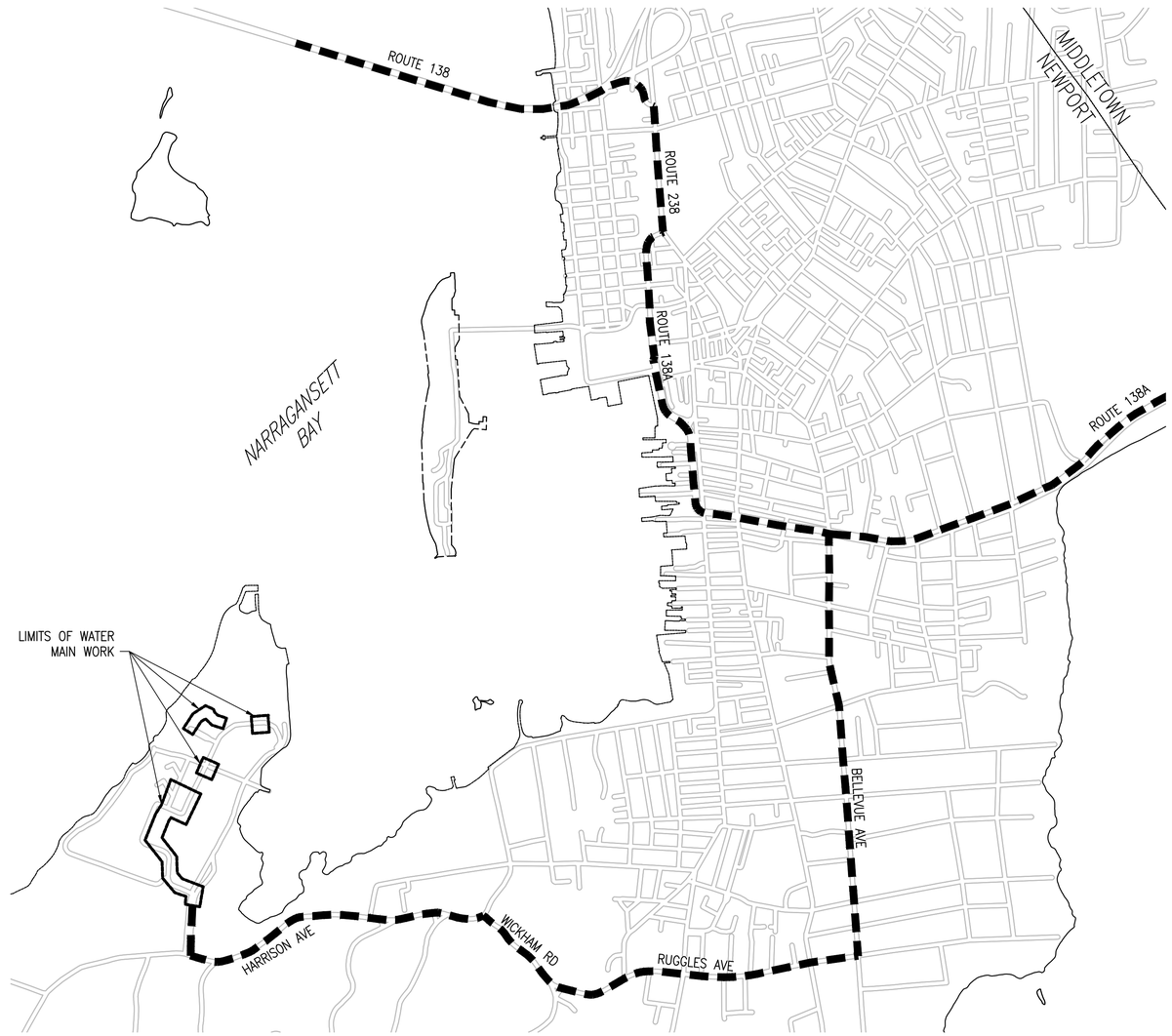
NAVFAC DRAWING NO. 12706449

SHEET 2 OF 46

G-002 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-001-002 TITLE SHEET.dwg LAYOUT NAME: G-002 PLOTTED: Tuesday, November 17, 2015 - 1:04pm USER: Stackp_R



LEGEND

CONTRACTOR ACCESS ROUTE

SITE 1 - FORT ADAMS ACCESS PLAN

SCALE: 1"=1,000'

GRAPHIC SCALE

1,000' 0 1,000' 2,000'

1"=1,000'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST A JOINT VENTURE
A/E INFO

APPROVED

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NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT

NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – FORT ADAMS ACCESS PLAN

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

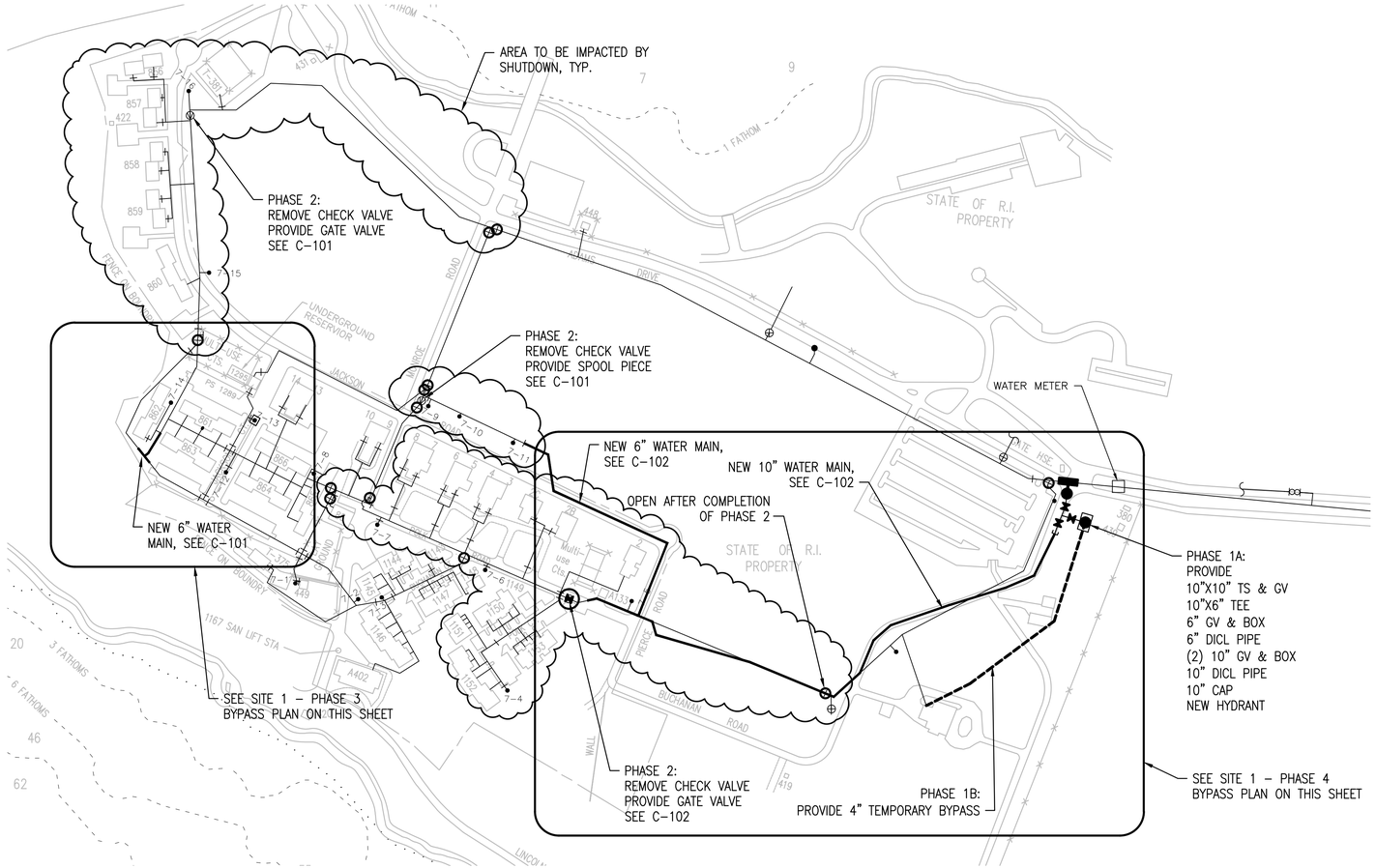
NAVFAC DRAWING NO. 12706450

SHEET 3 OF 46

G-003

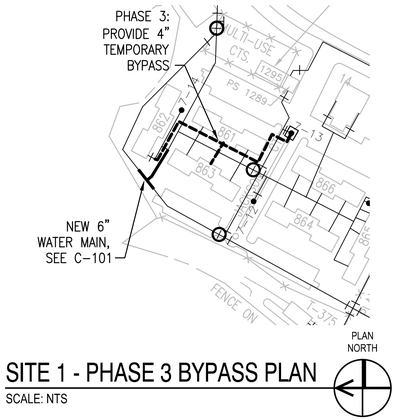
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\01 General\G-003 - 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-003 PLOTTED: Tuesday, November 17, 2015 - 1:04pm USER: Stackp_R



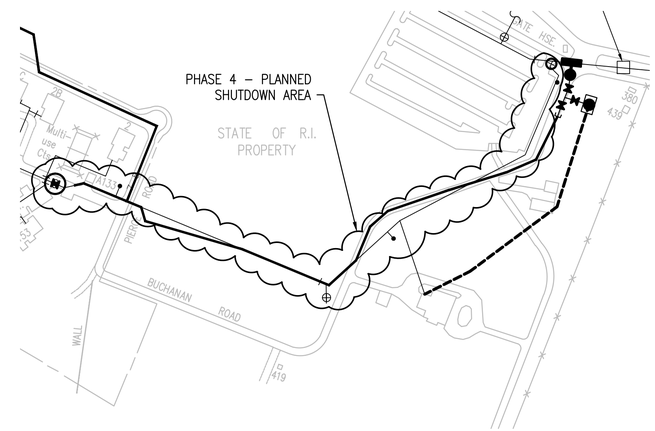
SITE 1 - SHUTDOWN AND BYPASS PLAN

SCALE: NTS



SITE 1 - PHASE 3 BYPASS PLAN

SCALE: NTS



SITE 1 - PHASE 4 SHUTDOWN PLAN

SCALE: NTS

LEGEND

- TAPPING SLEEVE AND GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- ISOLATION GATE VALVE
- GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- TEMPORARY FEED HYDRANT
- 2" TEMPORARY BYPASS
- 4" TEMPORARY BYPASS
- EXISTING WATER MAIN
- PROPOSED WATER MAIN

NOTE:

1. TEMPORARY BYPASS PIPING AND SHUTDOWN AREAS AS SHOWN ON THESE CONTRACT DRAWINGS IS INTENDED TO PROVIDE THE CONTRACTOR WITH GENERAL INFORMATION WITH REGARDS TO TEMPORARY BYPASS PIPE LAYOUT AND ANTICIPATED AREAS TO BE IMPACTED BY UTILITY CONNECTIONS. THIS BYPASS LAYOUT AND SHUTDOWN AREAS ARE SCHEMATIC AND FOR INFORMATIONAL PURPOSES ONLY.
2. FIELD CHANGES TO BYPASS PLAN AND SHUTDOWN AREAS SHALL BE COORDINATED WITH CONTRACTING OFFICER.
3. FOR SITE 1 WORK, SEE C-101 THROUGH C-105.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

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NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT

NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – BYPASS & SHUTDOWN PLANS

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

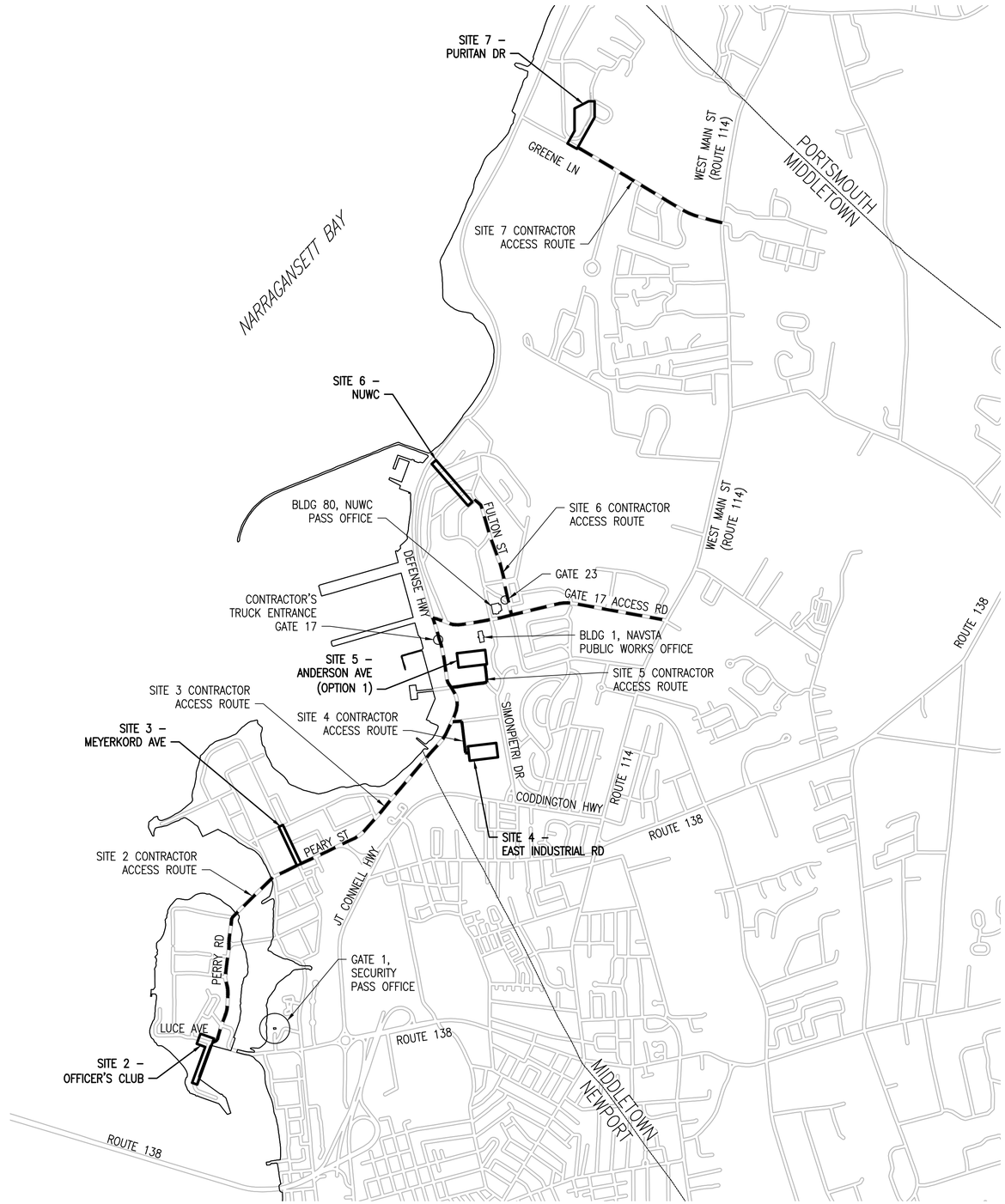
NAVFAC DRAWING NO. 12706451

SHEET 4 OF 46

G-004 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struct\TP-104D NAVSTA Water Phase3\05 CAD\01 General\G-003 – 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-004 PLOTTED: Tuesday, November 17, 2015 – 1:04pm USER: Stackp_R



LEGEND

CONTRACTOR ACCESS ROUTE

SITES 2,3,4,5, 6 & 7 ACCESS PLAN

SCALE: 1"=1,200'

PLAN NORTH

SITE 2 – OFFICER'S CLUB
SITE 3 – MEYERKORD AVE
SITE 4 – EAST INDUSTRIAL RD
SITE 5 – ANDERSON AVE (OPTION 1)
SITE 6 – NUWC
SITE 7 – PURITAN DR

GRAPHIC SCALE

1"=1,200' 1,200' 0 1,200' 2,400'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15

SEAL

MNFST A JOINT VENTURE

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITES 2, 3, 4, 5, 6 & 7 ACCESS PLAN

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

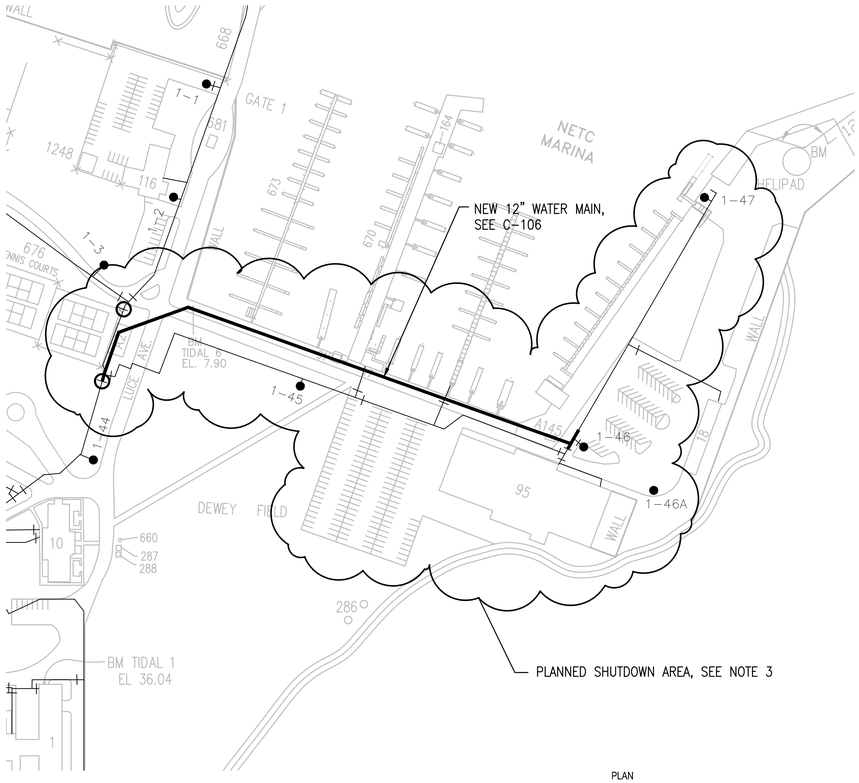
NAVFAC DRAWING NO. 12706452

SHEET 5 OF 46

G-005

DRAWFORM REVISION: 27 APRIL 2015

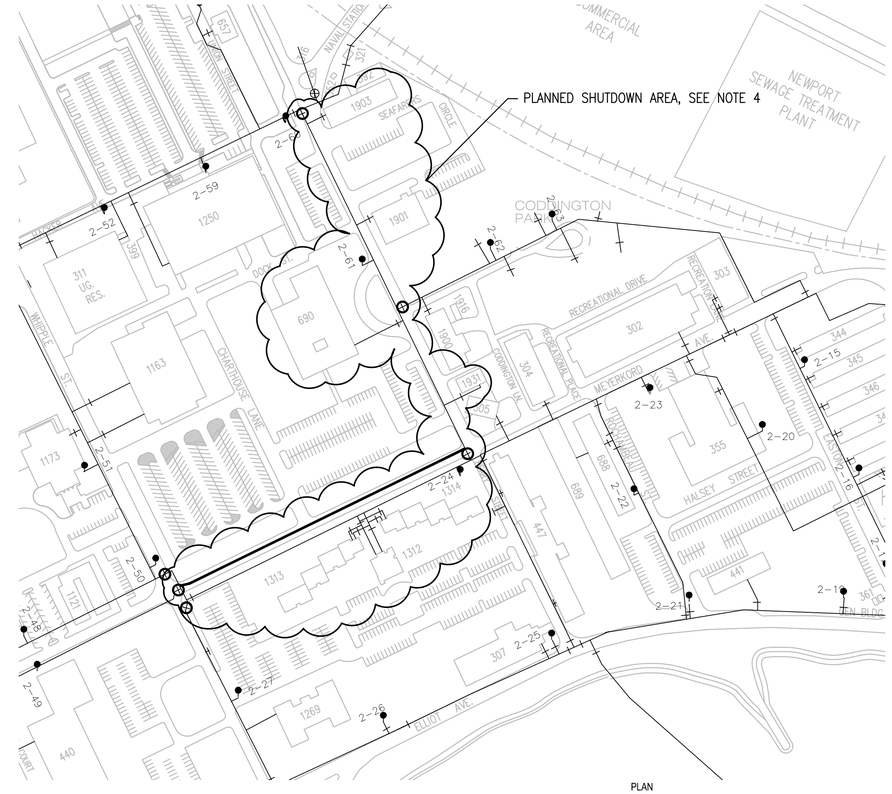
FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-003 – 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-005 PLOTTED: Tuesday, November 17, 2015 – 1:05pm USER: Stackp_R



SITE 2 - OFFICER'S CLUB SHUTDOWN PLAN

SCALE: NTS

PLAN NORTH



SITE 3 - MEYERKORD AVE SHUTDOWN PLAN

SCALE: NTS

PLAN NORTH

LEGEND

- TAPPING SLEEVE AND GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- ISOLATION GATE VALVE
- GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- TEMPORARY FEED HYDRANT
- 2" TEMPORARY BYPASS
- 4" TEMPORARY BYPASS
- EXISTING WATER MAIN
- PROPOSED WATER MAIN

NOTE:

1. TEMPORARY BYPASS PIPING AND SHUTDOWN AREAS AS SHOWN ON THESE CONTRACT DRAWINGS IS INTENDED TO PROVIDE THE CONTRACTOR WITH GENERAL INFORMATION WITH REGARDS TO TEMPORARY BYPASS PIPE LAYOUT AND ANTICIPATED AREAS TO BE IMPACTED BY UTILITY CONNECTIONS. THIS BYPASS LAYOUT AND SHUTDOWN AREAS ARE SCHEMATIC AND FOR INFORMATIONAL PURPOSES ONLY.
2. FIELD CHANGES TO BYPASS PLAN AND SHUTDOWN AREAS SHALL BE COORDINATED WITH CONTRACTING OFFICER.
3. FOR SITE 2 WORK, SEE C-106.
4. FOR SITE 3 WORK, SEE C-107.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MN FST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES AEH DRW AEH CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 2 AND SITE 3 – SHUTDOWN PLAN

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

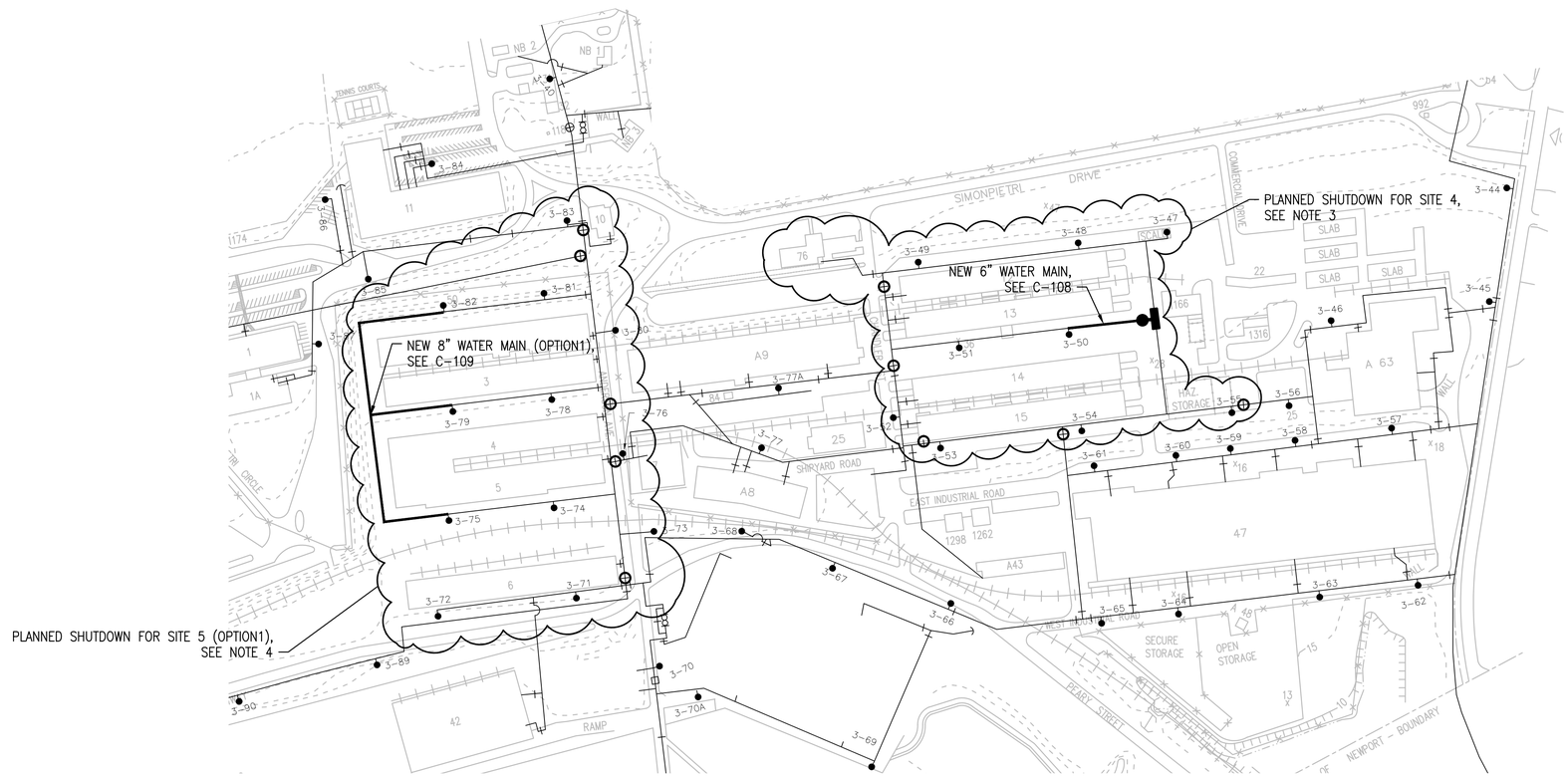
NAVFAC DRAWING NO. 12706453

SHEET 6 OF 46

G-006 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-003 – 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-006 PLOTTED: Tuesday, November 17, 2015 – 1:05pm USER: Stockp_R



SITE 4 AND 5 (OPTION 1) - SHUTDOWN PLAN

SCALE: NTS

LEGEND

- TAPPING SLEEVE AND GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- ISOLATION GATE VALVE
- GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- TEMPORARY FEED HYDRANT
- 2" TEMPORARY BYPASS
- 4" TEMPORARY BYPASS
- EXISTING WATER MAIN
- PROPOSED WATER MAIN

NOTE:

1. TEMPORARY BYPASS PIPING AND SHUTDOWN AREAS AS SHOWN ON THESE CONTRACT DRAWINGS IS INTENDED TO PROVIDE THE CONTRACTOR WITH GENERAL INFORMATION WITH REGARDS TO TEMPORARY BYPASS PIPE LAYOUT AND ANTICIPATED AREAS TO BE IMPACTED BY UTILITY CONNECTIONS. THIS BYPASS LAYOUT AND SHUTDOWN AREAS ARE SCHEMATIC AND FOR INFORMATIONAL PURPOSES ONLY.
2. FIELD CHANGES TO BYPASS PLAN AND SHUTDOWN AREAS SHALL BE COORDINATED WITH CONTRACTING OFFICER.
3. FOR SITE 4 WORK, SEE C-108.
4. FOR SITE 5 WORK, SEE C-109.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST
A JOINT VENTURE
A/E INFO

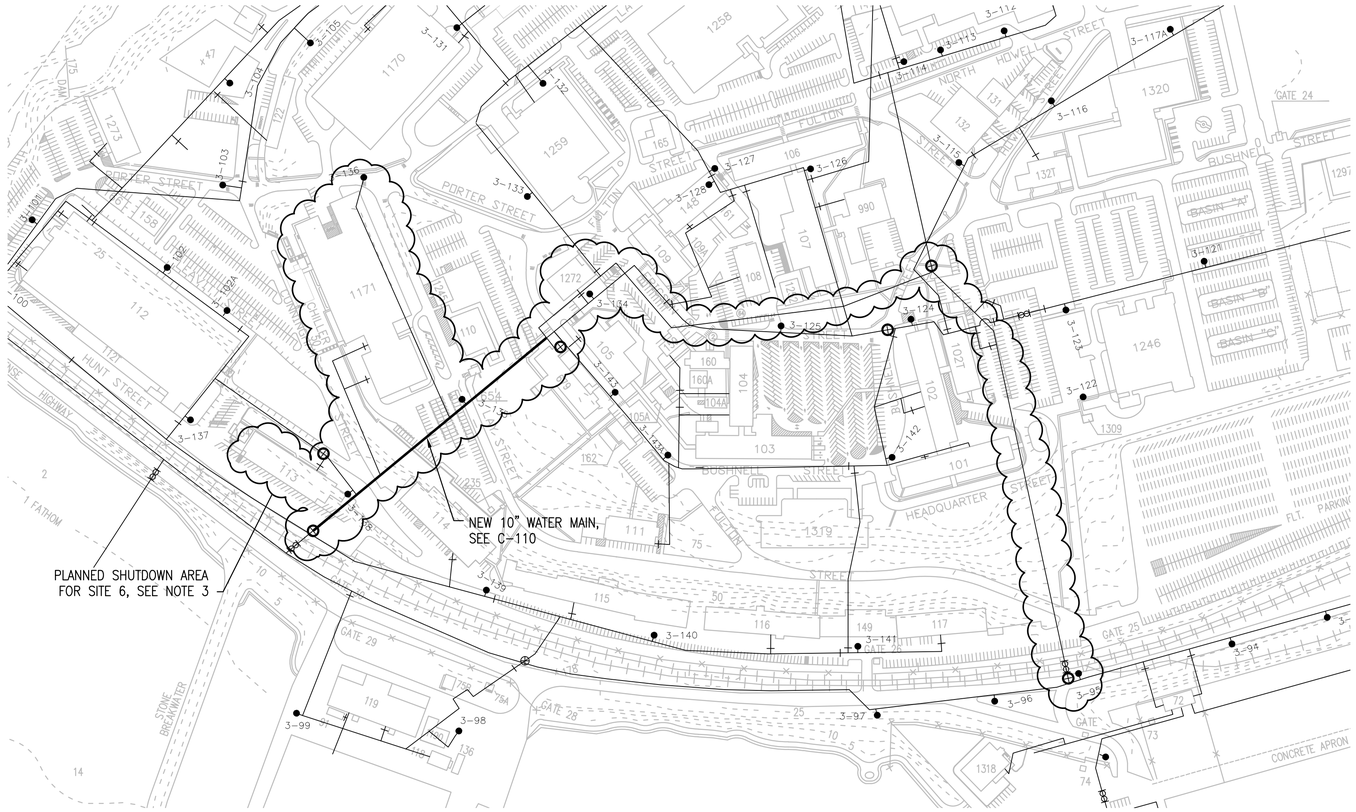
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES AEH DRW AEH CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 4 AND SITE 5 – SHUTDOWN PLAN

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706454
SHEET 7 OF 46
G-007 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-003 - 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-007 PLOTTED: Tuesday, November 17, 2015 - 1:05pm USER: Stackp_R



PLAN NORTH

SITE 6 - NUWC SHUTDOWN PLAN

SCALE: NTS

LEGEND

- TAPPING SLEEVE AND GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- ISOLATION GATE VALVE
- GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- TEMPORARY FEED HYDRANT
- 2" TEMPORARY BYPASS
- 4" TEMPORARY BYPASS
- EXISTING WATER MAIN
- PROPOSED WATER MAIN

NOTE:

1. TEMPORARY BYPASS PIPING AND SHUTDOWN AREAS AS SHOWN ON THESE CONTRACT DRAWINGS IS INTENDED TO PROVIDE THE CONTRACTOR WITH GENERAL INFORMATION WITH REGARDS TO TEMPORARY BYPASS PIPE LAYOUT AND ANTICIPATED AREAS TO BE IMPACTED BY UTILITY CONNECTIONS. THIS BYPASS LAYOUT AND SHUTDOWN AREAS ARE SCHEMATIC AND FOR INFORMATIONAL PURPOSES ONLY.
2. FIELD CHANGES TO BYPASS PLAN AND SHUTDOWN AREAS SHALL BE COORDINATED WITH CONTRACTING OFFICER.
3. FOR SITE 6 WORK, SEE C-110.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15

SEAL

MNFST A JOINT VENTURE

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES AEH DRW AEH CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 6 – SHUTDOWN PLAN

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

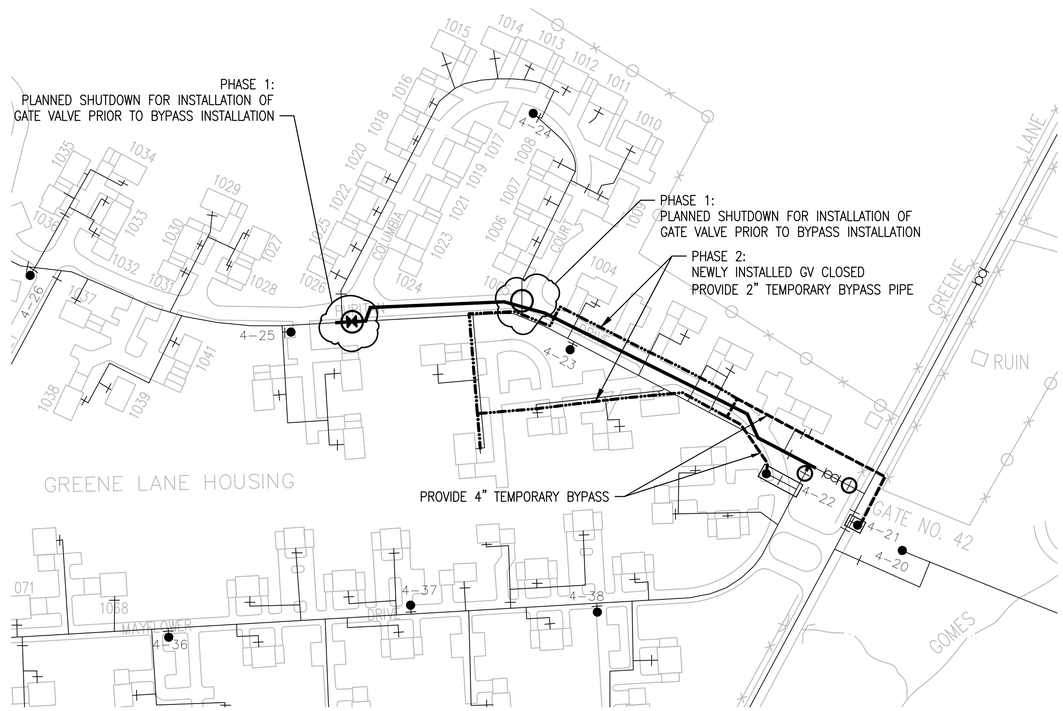
NAVFAC DRAWING NO. 12706455

SHEET 8 OF 46

G-008 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-003 – 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-008 PLOTTED: Tuesday, November 17, 2015 – 1:05pm USER: Stackp_R



SITE 7 - PURITAN DR SHUTDOWN AND BYPASS PLAN

SCALE: NTS

PLAN NORTH

LEGEND

- TAPPING SLEEVE AND GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- ISOLATION GATE VALVE
- GATE VALVE INSTALLED PRIOR TO BYPASS OR SHUTDOWN
- TEMPORARY FEED HYDRANT
- 2" TEMPORARY BYPASS
- 4" TEMPORARY BYPASS
- EXISTING WATER MAIN
- PROPOSED WATER MAIN

NOTE:

1. TEMPORARY BYPASS PIPING AND SHUTDOWN AREAS AS SHOWN ON THESE CONTRACT DRAWINGS IS INTENDED TO PROVIDE THE CONTRACTOR WITH GENERAL INFORMATION WITH REGARDS TO TEMPORARY BYPASS PIPE LAYOUT AND ANTICIPATED AREAS TO BE IMPACTED BY UTILITY CONNECTIONS. THIS BYPASS LAYOUT AND SHUTDOWN AREAS ARE SCHEMATIC AND FOR INFORMATIONAL PURPOSES ONLY.
2. FIELD CHANGES TO BYPASS PLAN AND SHUTDOWN AREAS SHALL BE COORDINATED WITH CONTRACTING OFFICER.
3. FOR SITE 7 WORK, SEE C-112.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST
A JOINT VENTURE
A/E INFO

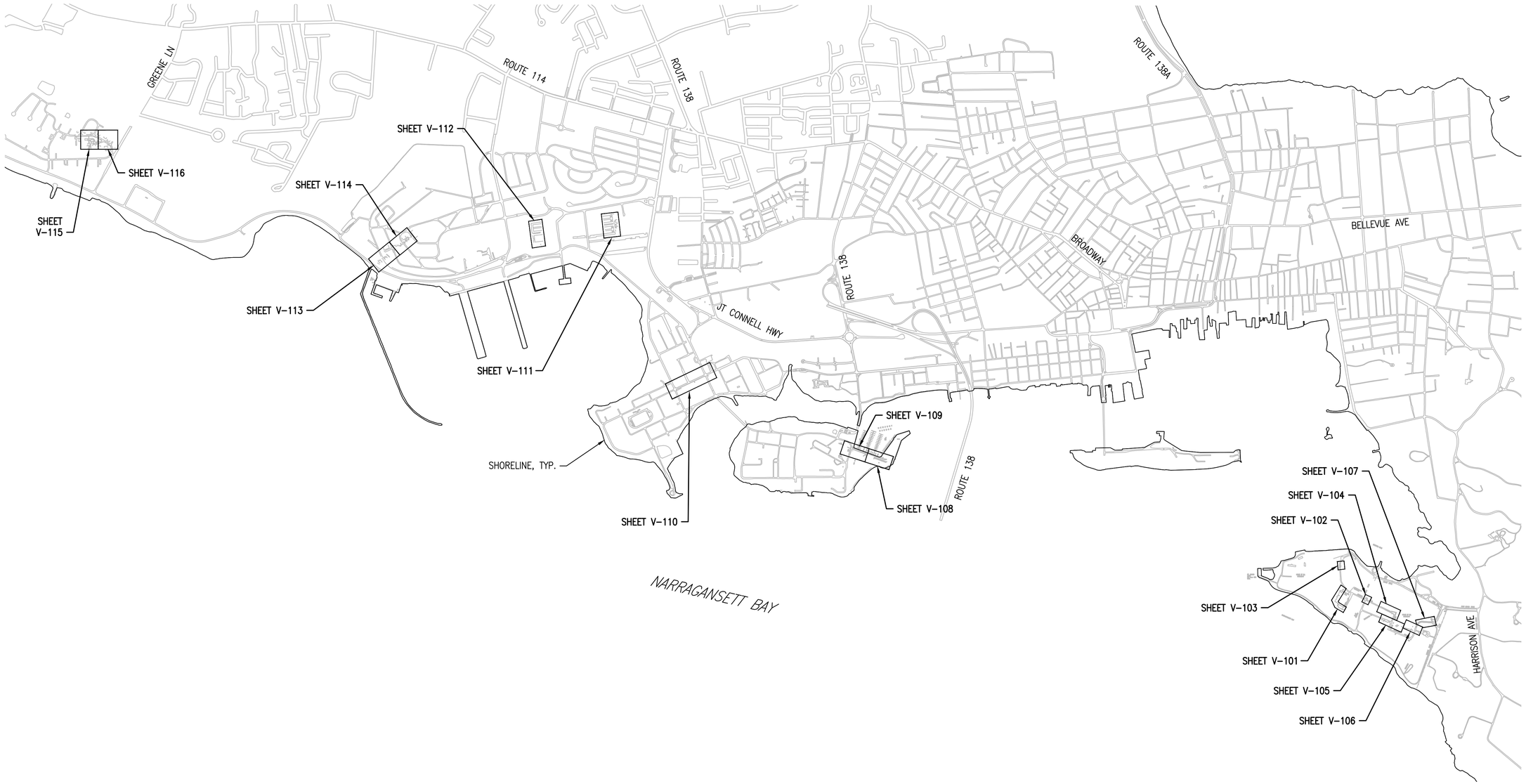
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES AEH | DRW AEH | CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 7 – BYPASS & SHUTDOWN PLAN

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706456
SHEET 9 OF 46
G-009 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\01 General\G-003 – 009 SITE ACCESS AND BYPASS PLAN.dwg LAYOUT NAME: G-009 PLOTTED: Tuesday, November 17, 2015 – 1:05pm USER: Stackp_R



KEY PLAN - EXISTING CONDITIONS

SCALE: 1"=1,200'

PLAN NORTH

GRAPHIC SCALE

1"=1,200'

1,200' 0 1,200' 2,400'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST
A JOINT VENTURE
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES AEH | DRW AEH | CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

KEY PLAN – EXISING CONDITIONS

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

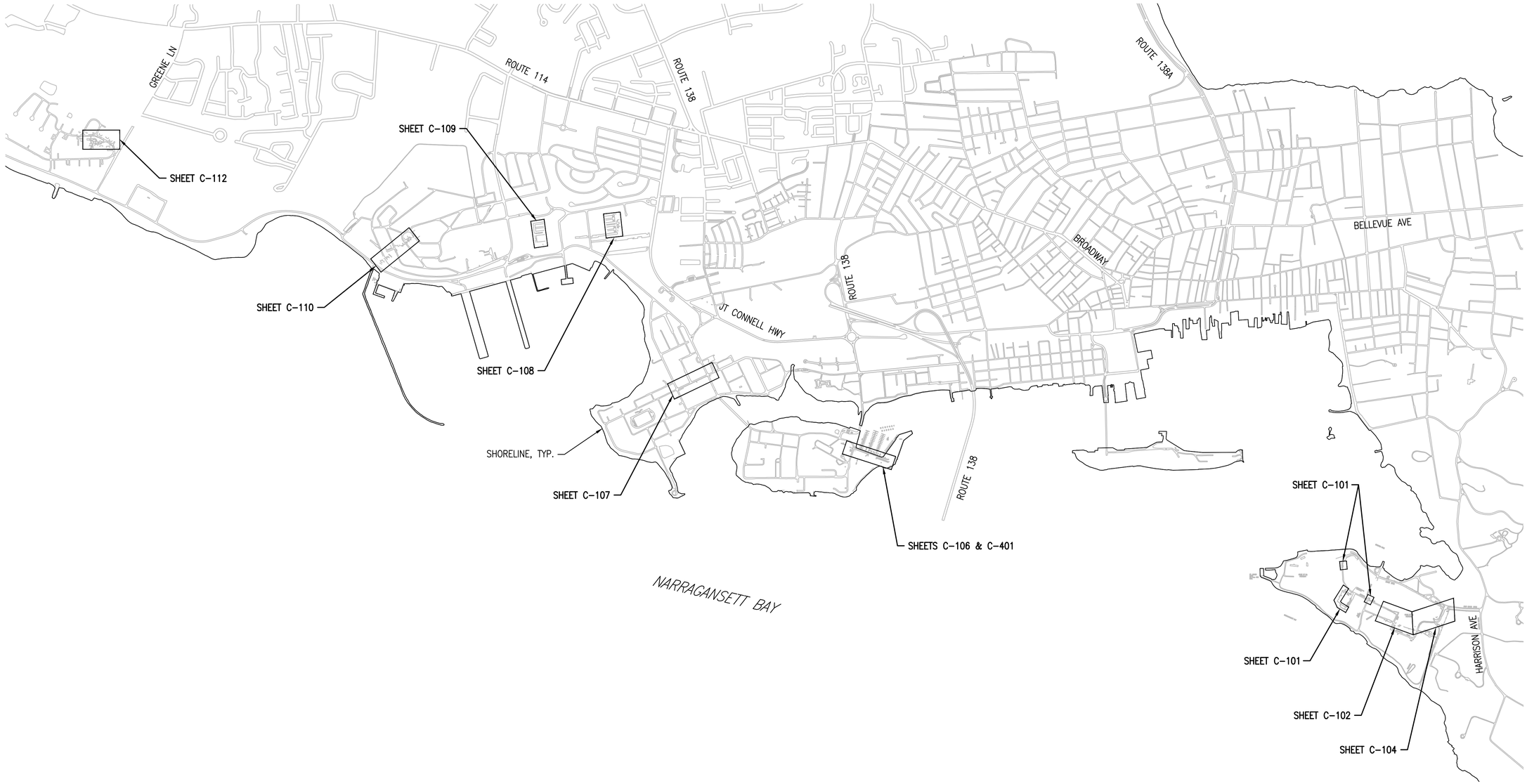
NAVFAC DRAWING NO.
12706457

SHEET 10 OF 46

G-010 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\01 General\G-010 KEY PLAN – SURVEY.dwg LAYOUT NAME: G-010 PLOTTED: Tuesday, November 17, 2015 – 1:06pm USER: Stacky_R



KEY PLAN
SCALE: 1"=1,200'

PLAN NORTH

GRAPHIC SCALE

1,200' 0 1,200' 2,400'
1"=1,200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST
A JOINT VENTURE
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES AEH DRW AEH CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT

NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

KEY PLAN

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706458
SHEET 11 OF 46
G-011 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\01 General\G-011 KEY PLAN.dwg LAYOUT NAME: G-011 PLOTTED: Tuesday, November 17, 2015 - 1:06pm USER: Stackp_R

LEGEND AND ABBREVIATIONS:

BLDG	BUILDING
CB	CATCH BASIN
COMM	COMMUNICATIONS
DP	DEPTH
ELEC	ELECTRIC
FH	FIRE HYDRANT
GV	GAS VALVE
INV	INVERT
MH	MANHOLE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
TELCO	TELEPHONE
TF	TOP OF FRAME
TN	TOP OF NUT
VC	VITRIFIED CLAY
WV	WATER VALVE
D	STORM DRAIN LINE
E	ELECTRIC LINE
X	FENCE LINE
G	GAS LINE
OHE	OVERHEAD ELECTRIC LINE
STM	STEAM LINE
S	SANITARY SEWER
SW	SALT WATER LINE
T	TELEPHONE LINE
UNI	UNIDENTIFIED
W	WATER LINE
	BOLLARD
	CATCH BASIN
T	COMMUNICATIONS MANHOLE
E	ELECTRIC MANHOLE
	FIRE HYDRANT
	LIGHT POLE
S	SANITARY SEWER MANHOLE
	SIGN
STM	STEAM MANHOLE
D	STORM DRAIN MANHOLE
	WATER VALVE
W	WATER MANHOLE
YD	YARD DRAIN
	UTILITY POLE
U	UNIDENTIFIED MANHOLE
	VEGETATION
12"	DECIDUOUS TREE/ TRUNK DIAMETER
15"	CONIFEROUS TREE/ TRUNK DIAMETER

NOTES:

1. THIS PLAN IS BASED ON AN ON-THE-GROUND SURVEY MADE IN JUNE, 2015.
2. HORIZONTAL AND VERTICAL ACCURACY WITHIN SURVEY SITE LIMITS CONFORMS TO CLASS I HORIZONTAL AND CLASS II VERTICAL.
3. GEOGRAPHIC POSITIONS AND ELEVATIONS WERE DETERMINED BY USING GNSS (RTN GPS). COORDINATES ARE REFERENCED TO RHODE ISLAND COORDINATE SYSTEM NAD 83, ELEVATIONS ARE REFERENCED TO NAVD 88.
4. UNDERGROUND UTILITIES SHOWN ON THIS MAP WERE MARKED IN THE FIELD BY AEI SUBSURFACE. ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED PRIOR TO EXCAVATION AND/OR CONSTRUCTION.

THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

10-16-15

MICHAEL J. SCANLON DATE
REGISTRATION # 1843

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR

SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

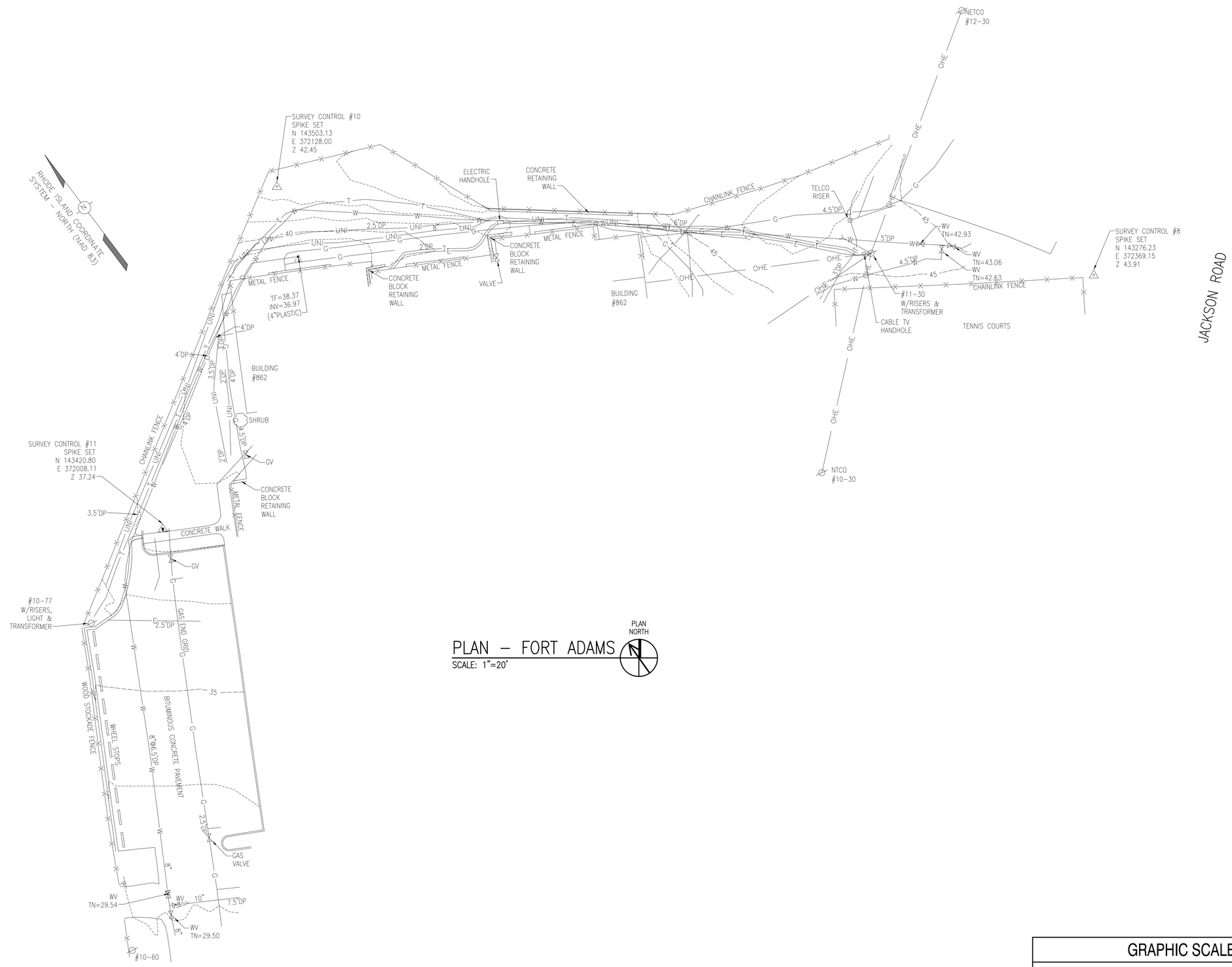
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SURVEY GENERAL NOTES, LEGEND & ABBREVIATIONS

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706459
SHEET 12 OF 46
V-100 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20'

20' 0 20' 40'

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT

NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 1 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

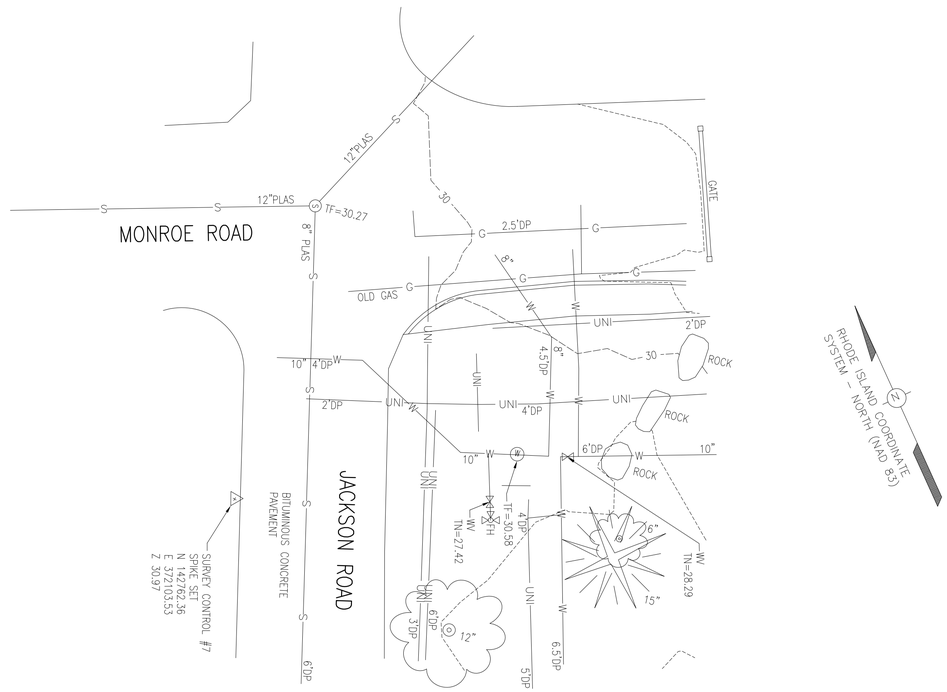
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706460

SHEET 13 OF 46

V-101 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=10'

PLAN NORTH

GRAPHIC SCALE

1"=10'

10' 0 10' 20'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 2 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

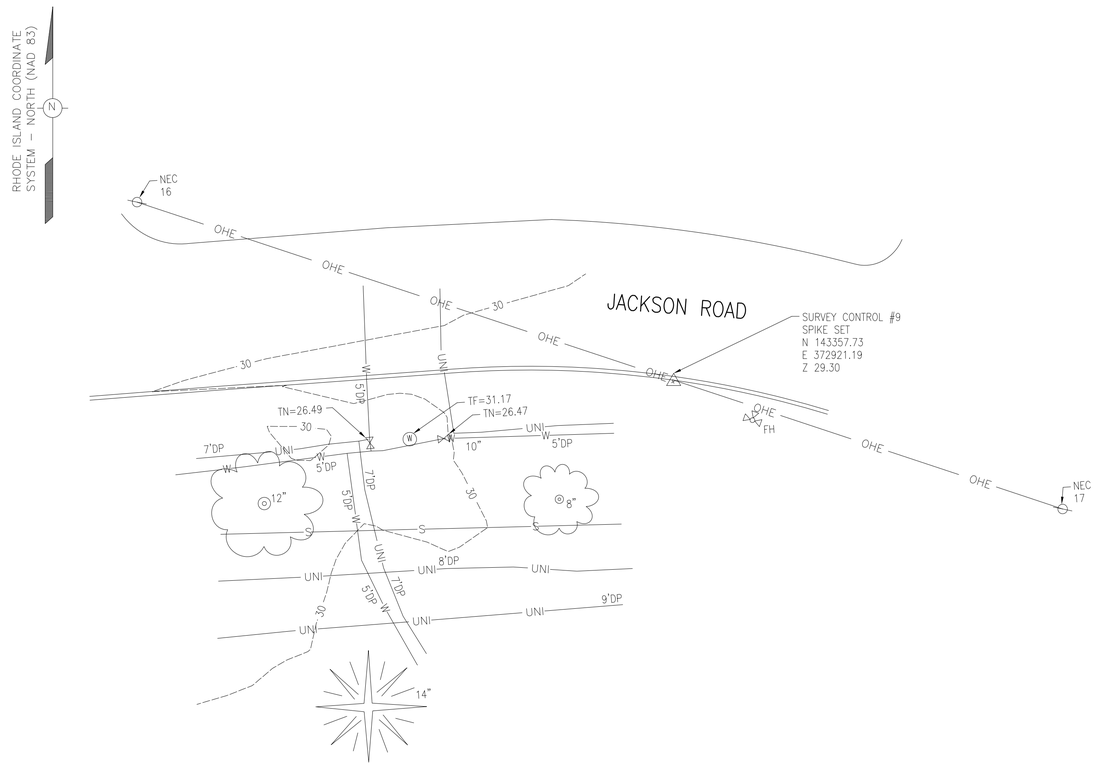
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706461

SHEET 14 OF 46

V-102 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=10'

PLAN NORTH

GRAPHIC SCALE

1"=10'

10' 0 10' 20'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR

SEAL

DiCESARE BENTLEY

ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION
SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 3 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

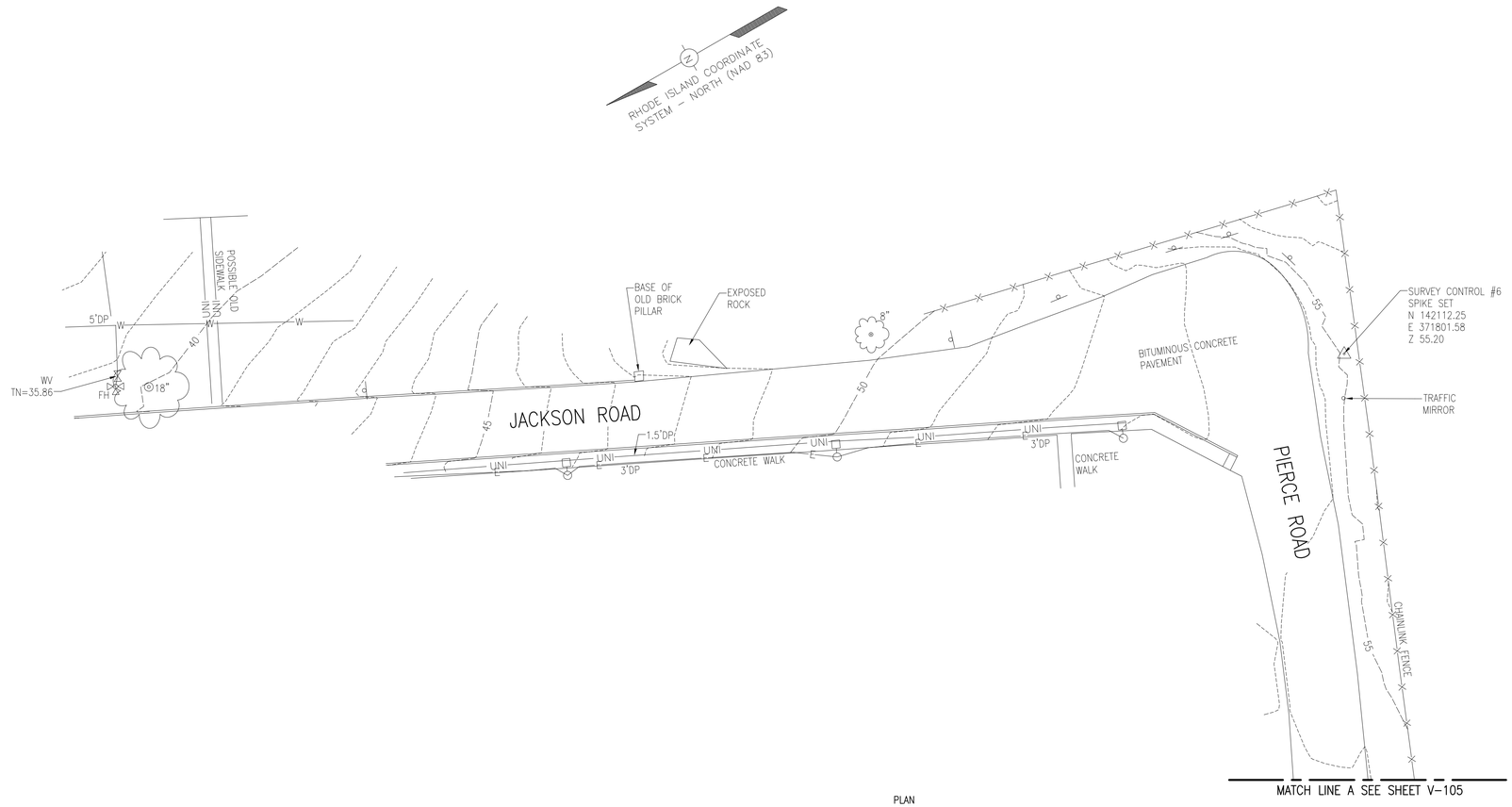
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12706462

SHEET 15 OF 46

V-103 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 4 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

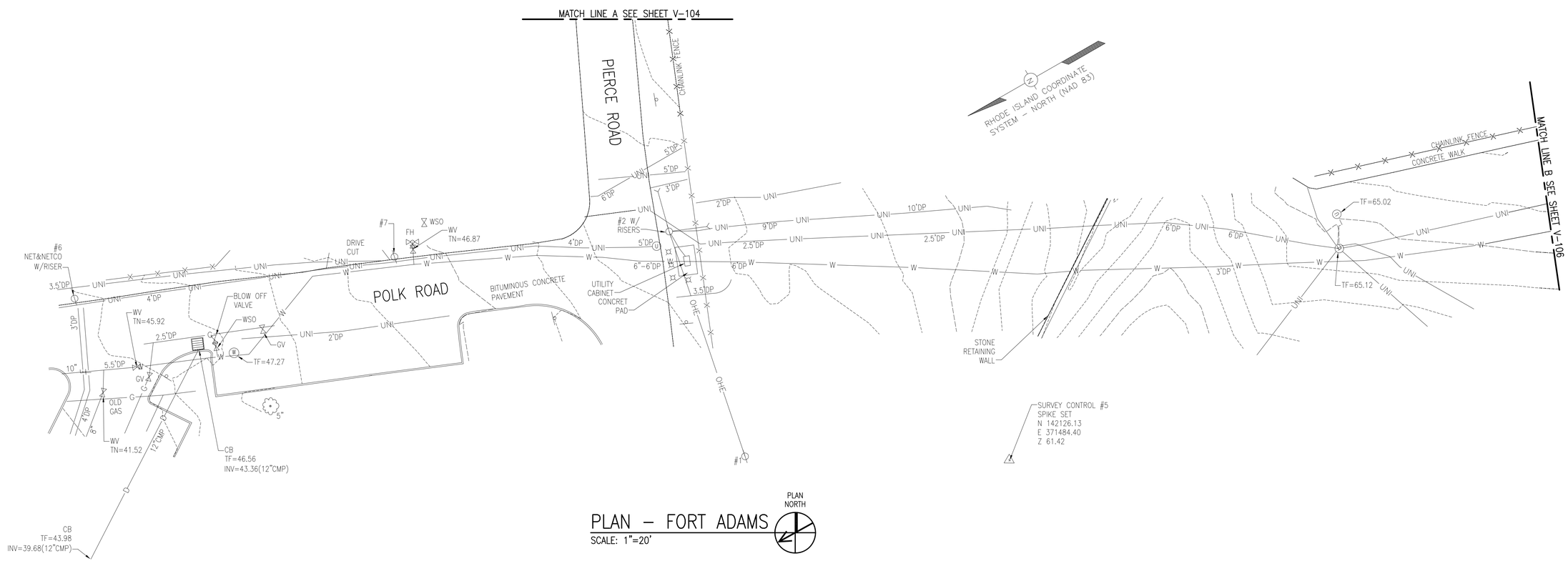
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12706463

SHEET 16 OF 46

V-104 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20'

20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 5 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

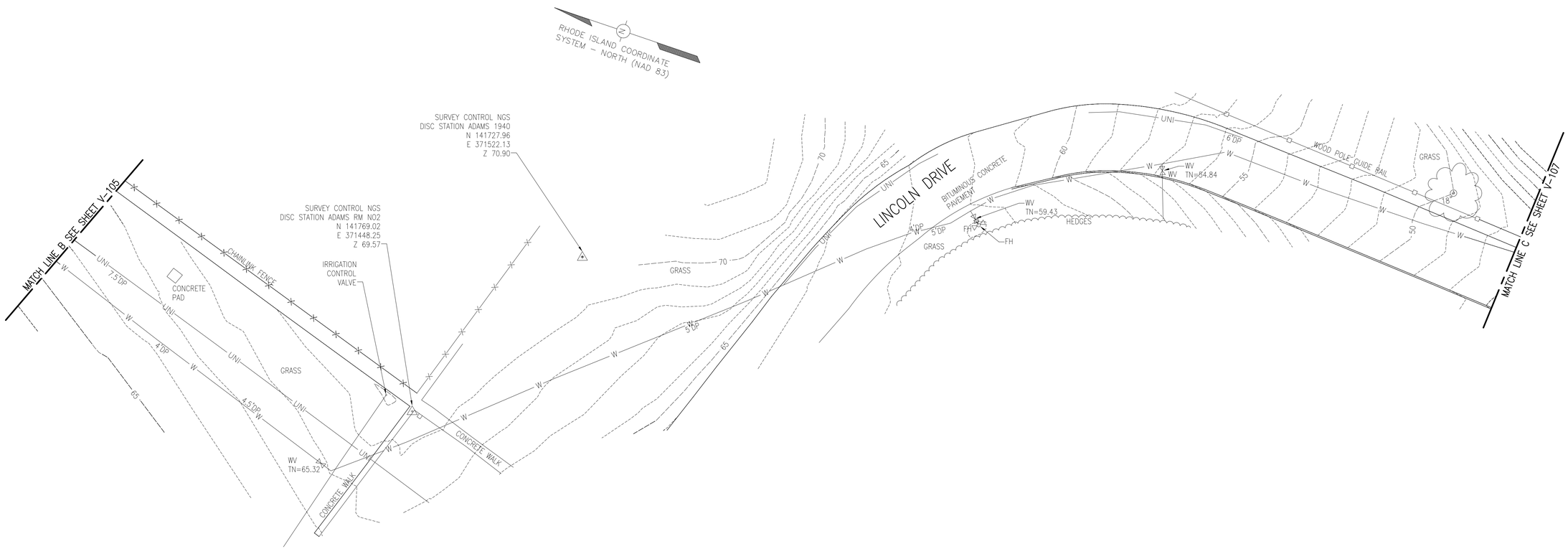
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12706464

SHEET 17 OF 46

V-105 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20'

20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR

SEAL

DiCESARE BENTLEY

ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 6 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

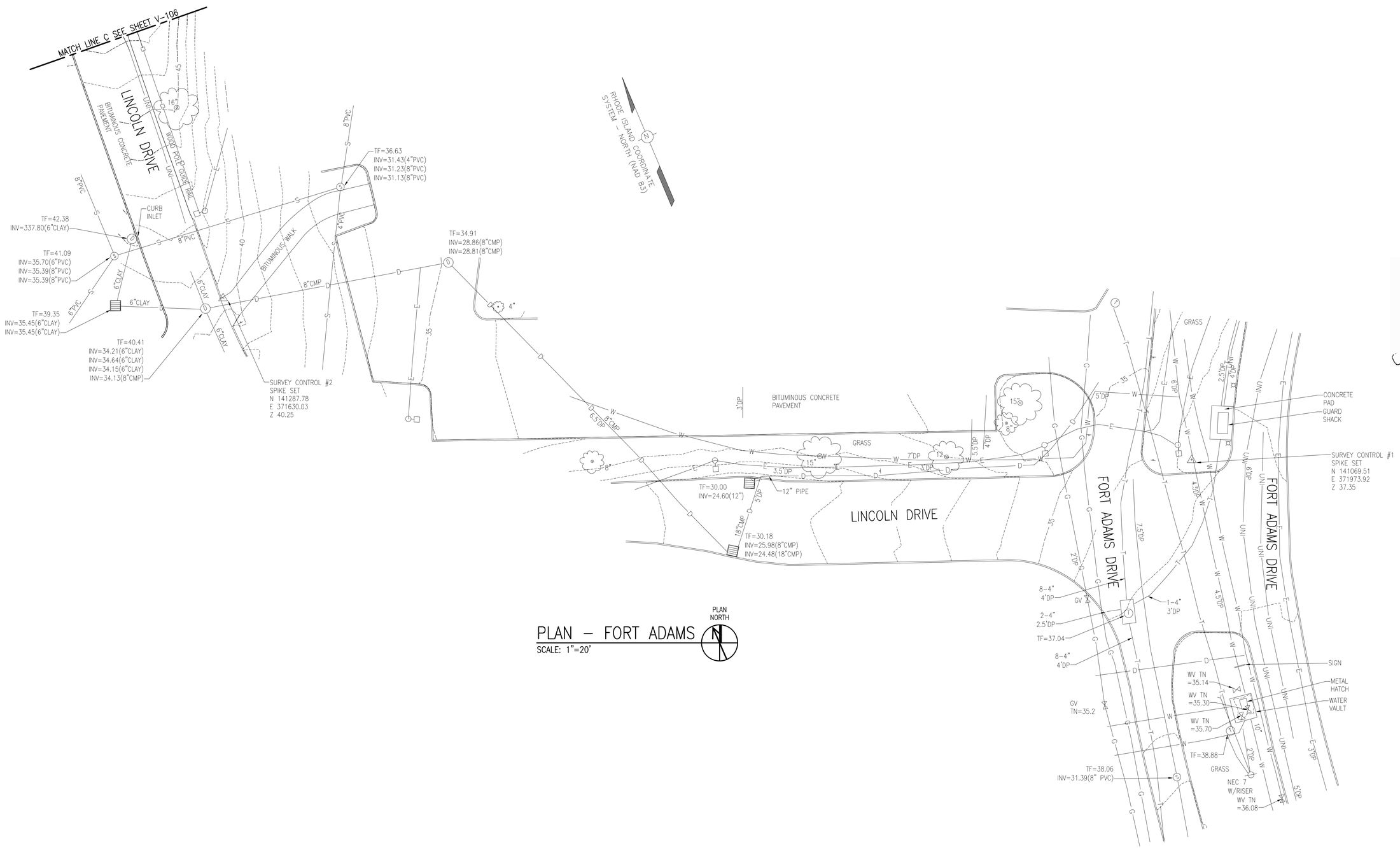
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706465

SHEET 18 OF 46

V-106 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – FORT ADAMS

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
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NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1 – EXISTING CONDITIONS – PART 7 OF 7

MAXIMO No.:

EPROJECT NO.: 1362578

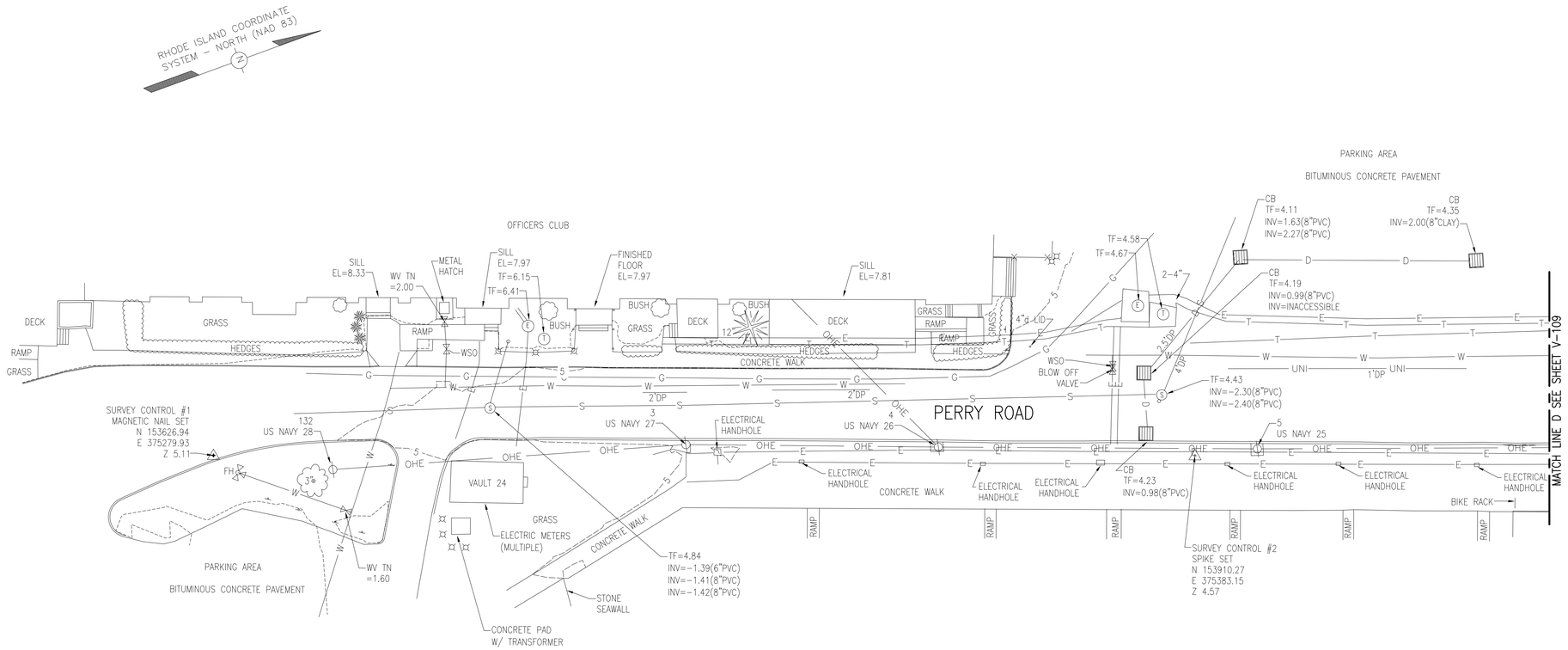
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706466

SHEET 19 OF 46

V-107 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – OFFICER'S CLUB

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 2 – EXISTING CONDITIONS – PART 1 OF 2

MAXIMO No.:

EPROJECT NO.: 1362578

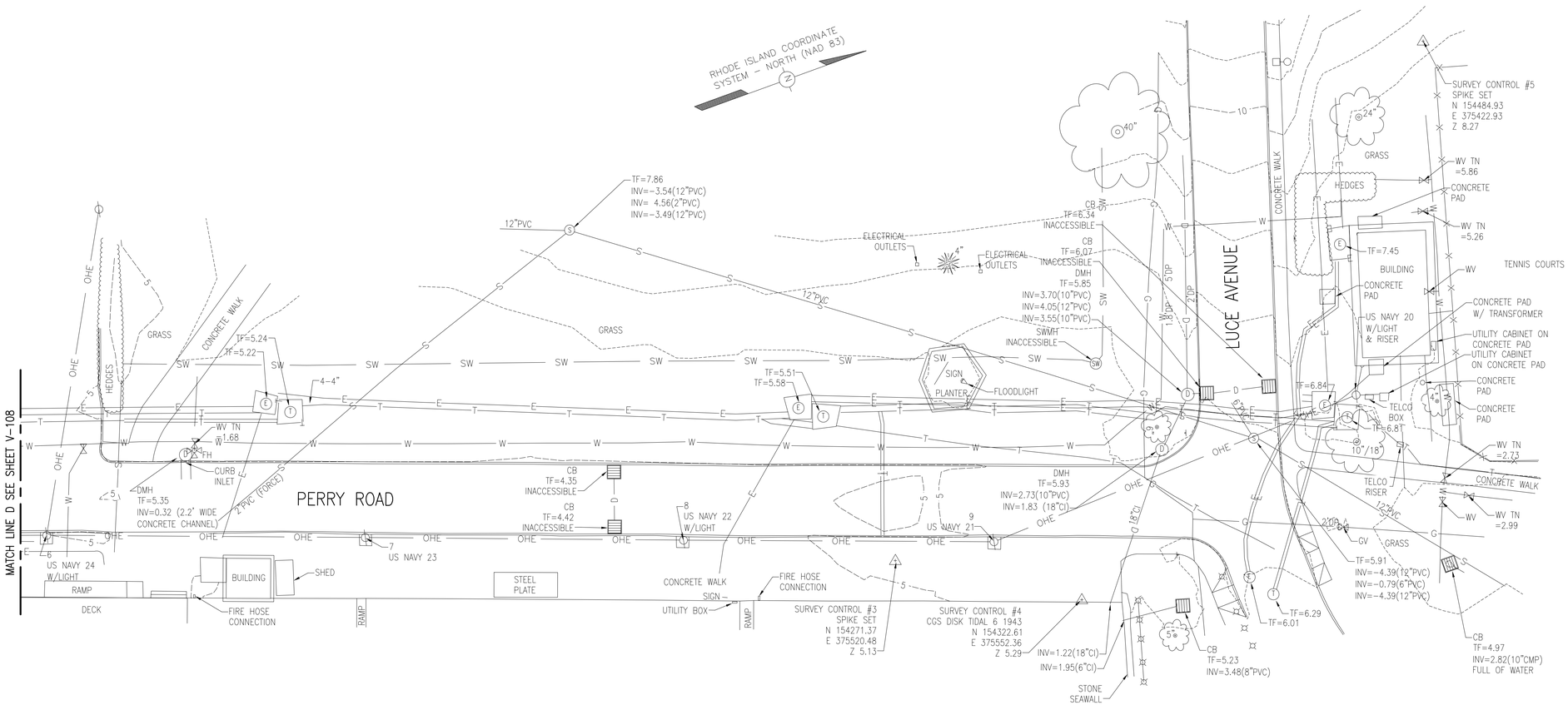
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706467

SHEET 20 OF 46

V-108 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – OFFICER'S CLUB

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

APPR	
DATE	
DESCRIPTION	
SYM	

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 2 – EXISTING CONDITIONS – PART 2 OF 2

MAXIMO No.:

EPROJECT NO.: 1362578

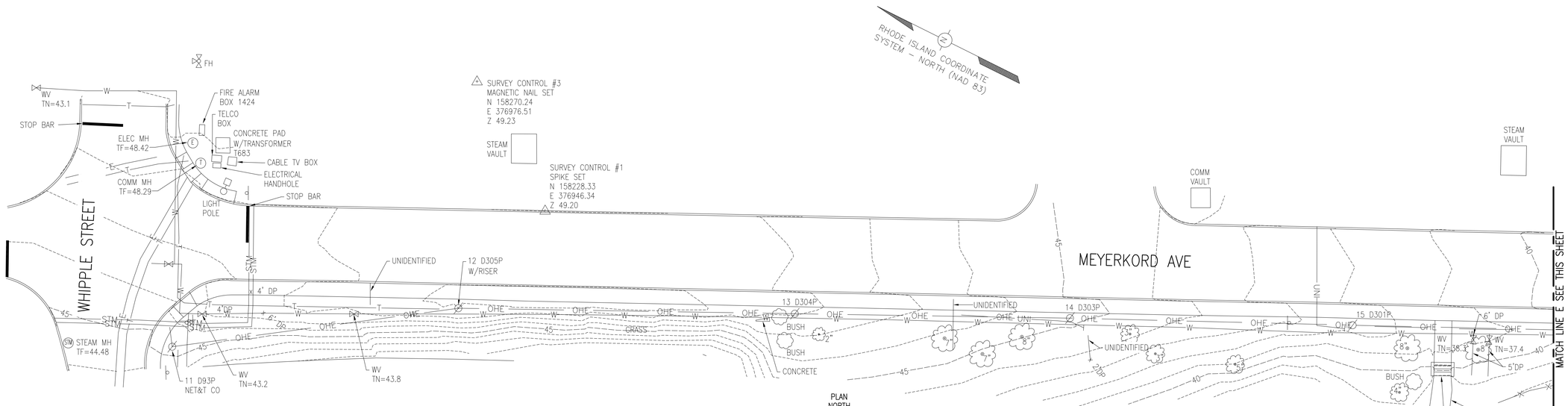
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706468

SHEET 21 OF 46

V-109 –

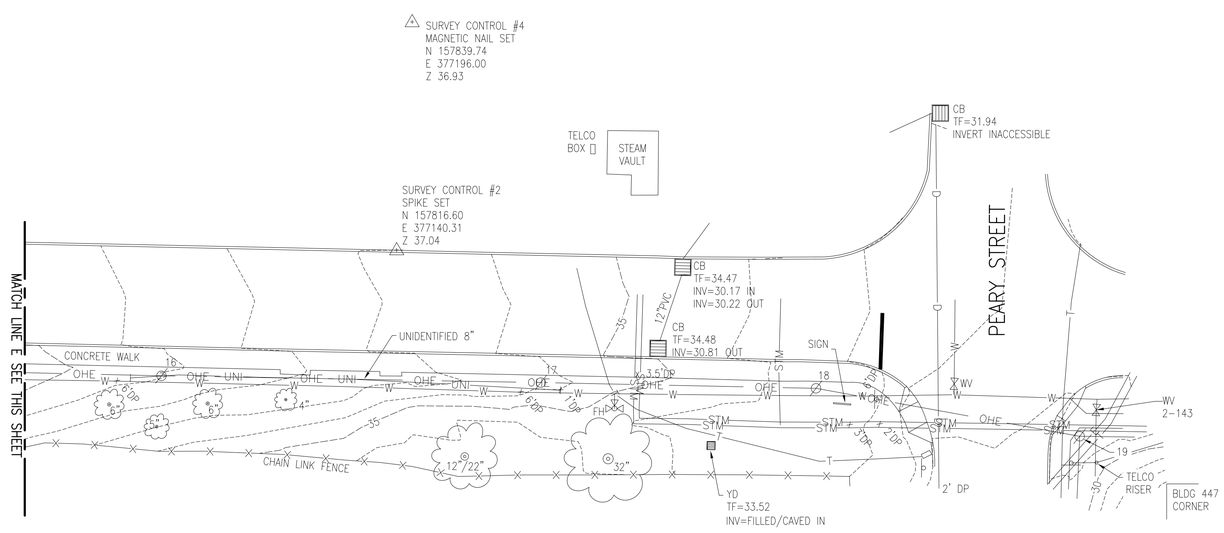
DRAWFORM REVISION: 27 APRIL 2015



PLAN – MEYERKORD AVE

SCALE: 1"=20'

PLAN NORTH



PLAN – MEYERKORD AVE

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

APPR	DATE	DESCRIPTION	SYM

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 3 – EXISTING CONDITIONS

MAXIMO No.:

EPROJECT NO.: 1362578

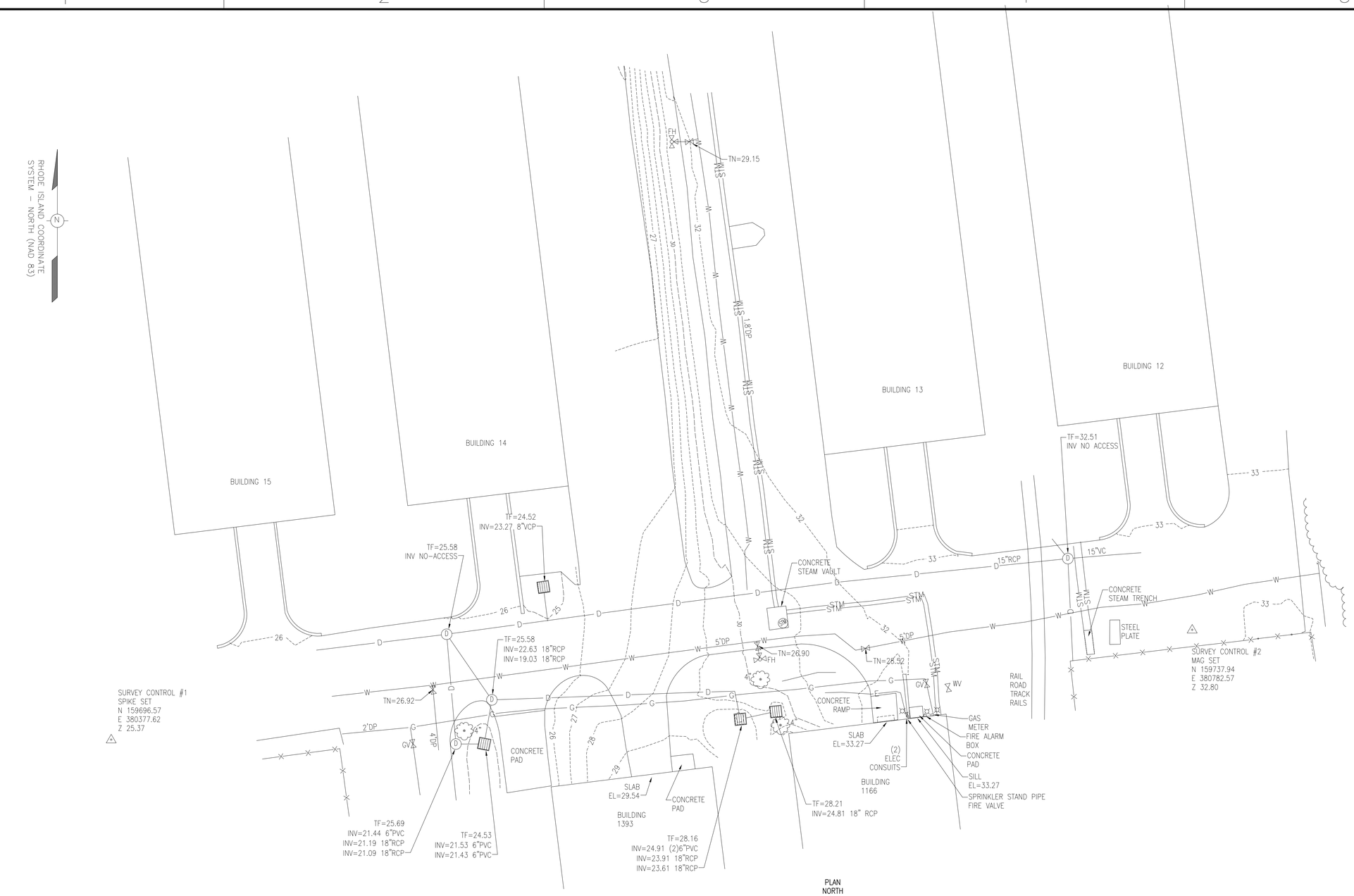
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706469

SHEET 22 OF 46

V-110 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – EAST INDUSTRIAL ROAD

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
SATISFACTORY TO DATE

DES – DRW SEP CHK MJS
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

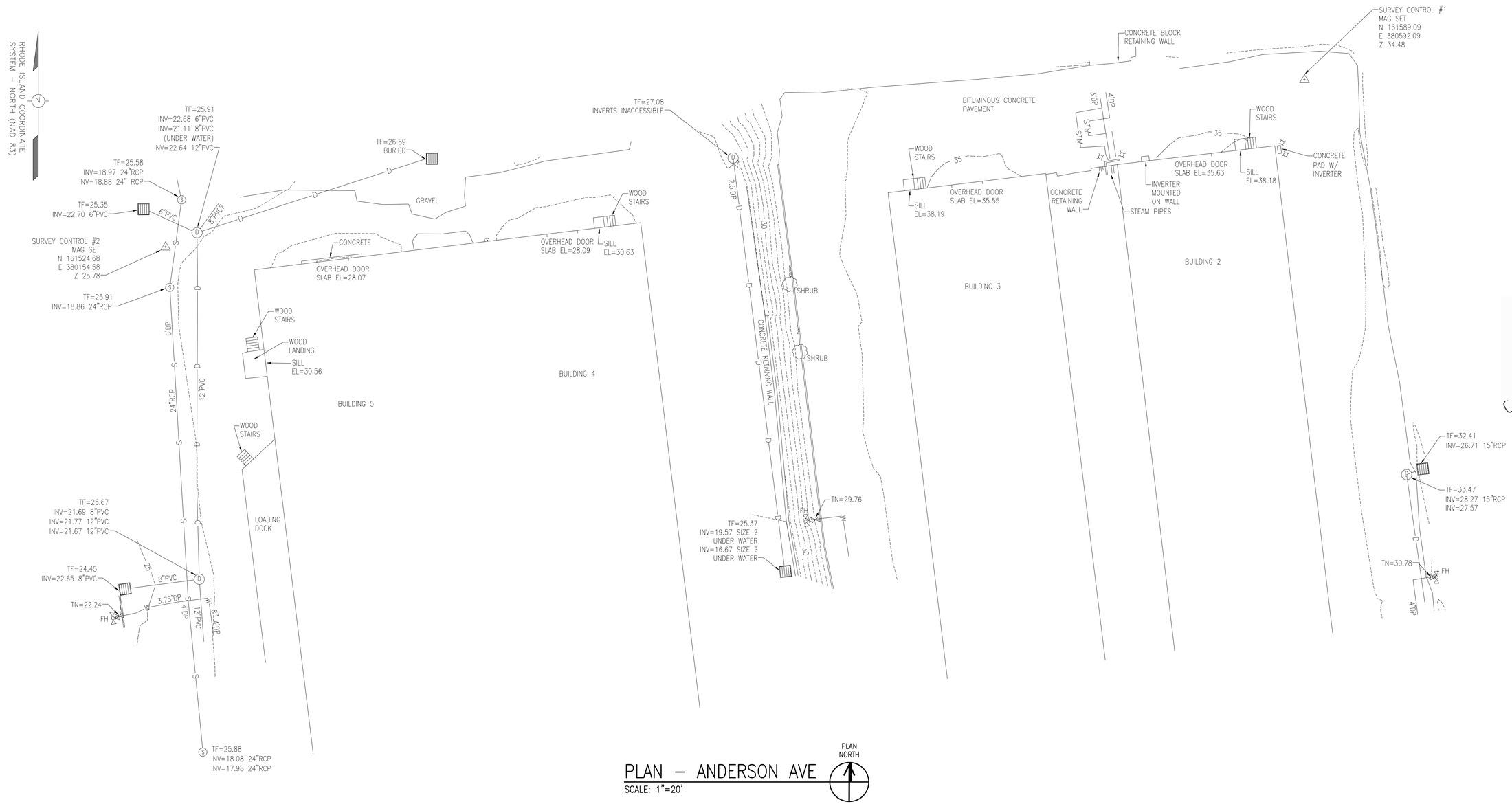
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 4 – EXISTING CONDITIONS

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706470
SHEET 23 OF 46
V-111 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – ANDERSON AVE

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20'

20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR	

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES –	DRW SEP	CHK MJS

PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

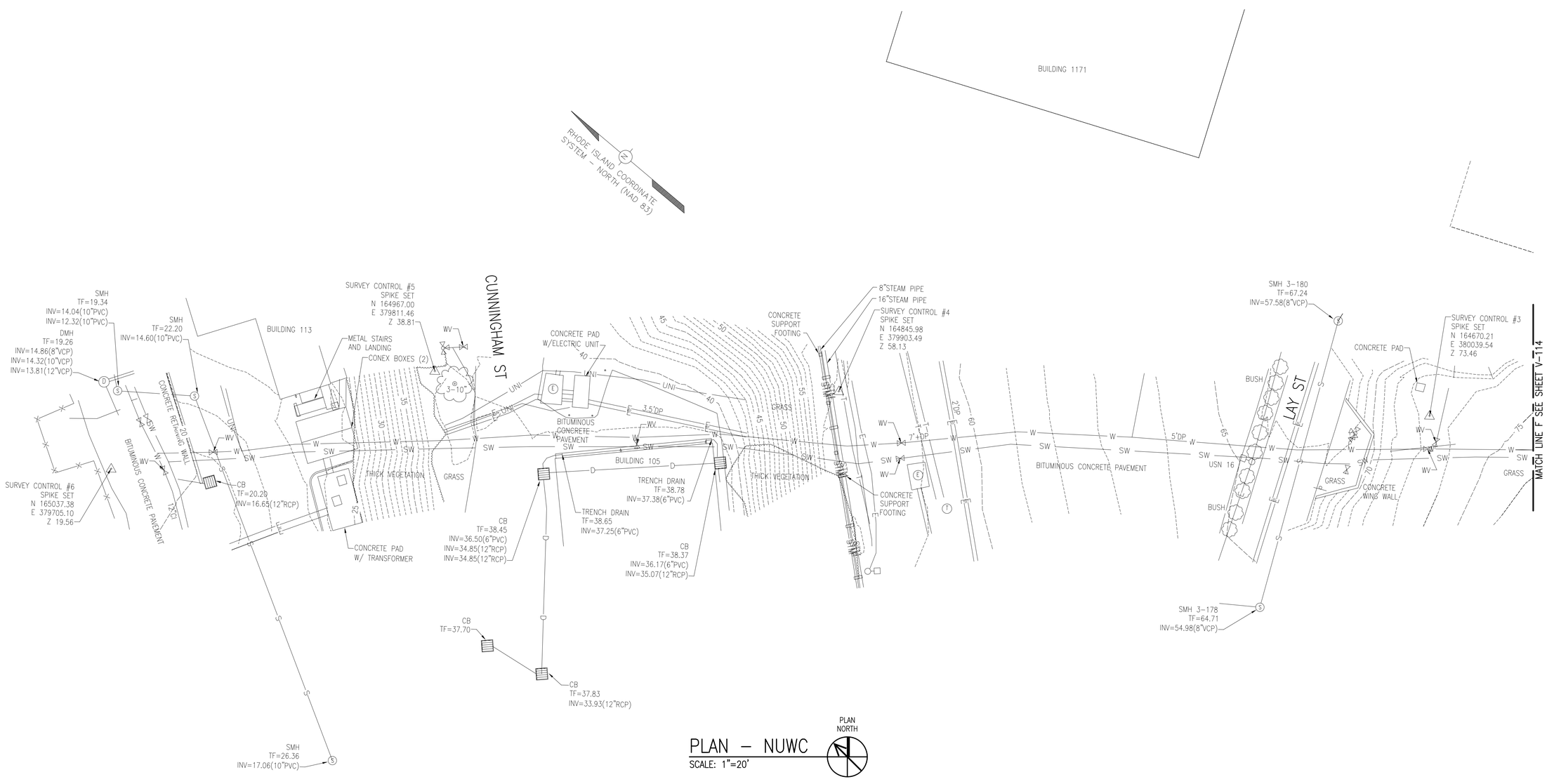
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 5 – EXISTING CONDITIONS

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706471
SHEET 24 OF 46
V-112 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – NUWC

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 6 – EXISTING CONDITIONS – PART 1 OF 2

MAXIMO No.:

EPROJECT NO.: 1362578

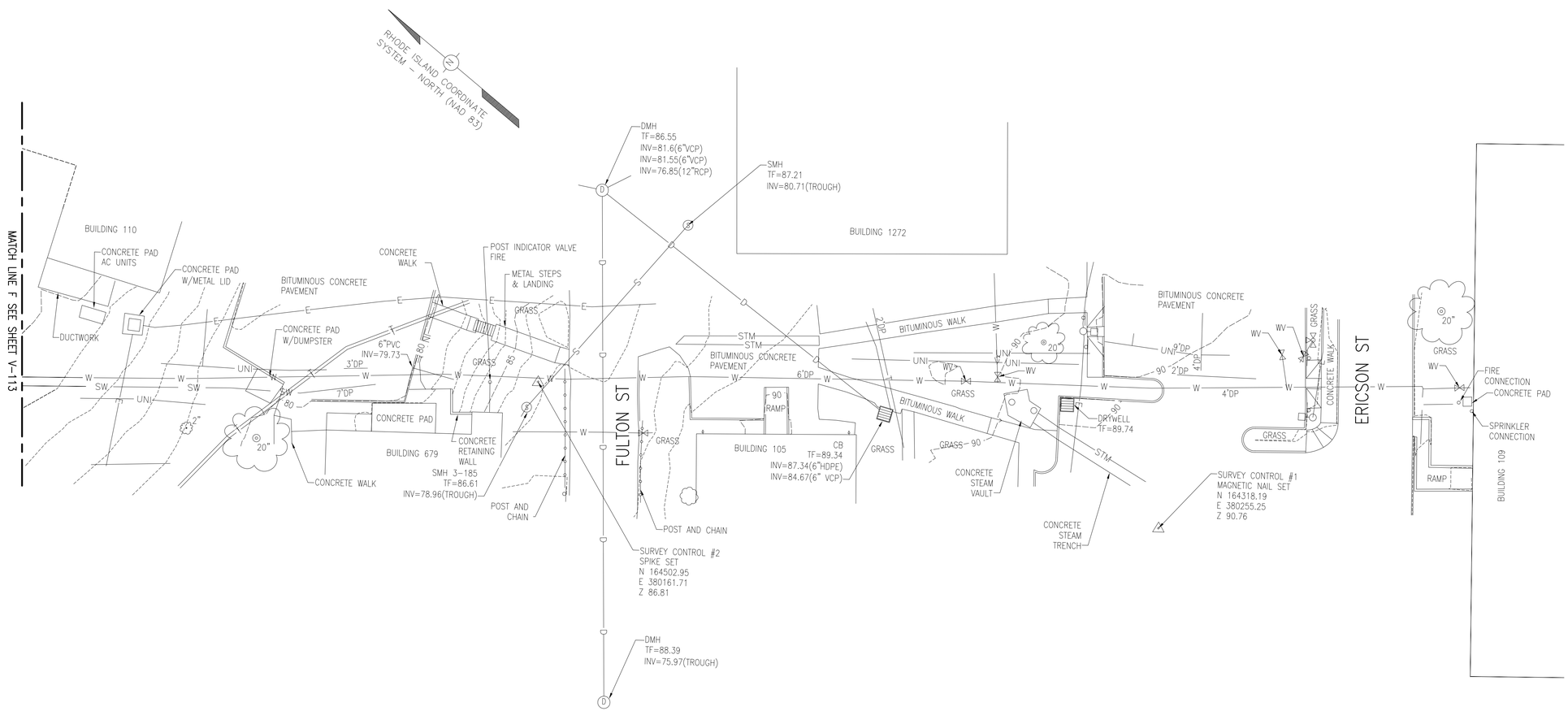
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706472

SHEET 25 OF 46

V-113 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – NUWC
SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR

SEAL

DICESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 6 – EXISTING CONDITIONS – PART 2 OF 2

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706473

SHEET 26 OF 46

V-114 –

DRAWFORM REVISION: 27 APRIL 2015

RHODE ISLAND COORDINATE SYSTEM – NORTH (NAD 83)

HOUSE
COLUMBIA COURT
PURITAN DRIVE
TAYLOR COURT
BUS SHELTER
CONCRETE WALK
CONCRETE RETAINING WALL
WOOD GUIDE RAIL
OVERHEAD SUPPORT WIRE
CONCRETE STEPS
BITUMINOUS WALK
TELEPHONE HANDHOLE
ELECTRIC HANDHOLE
BLOW OFF VALVE
MATCH LINE G SEE SHEET V-116

CB TF=69.75 NO ACCESS
TF=71.89 INV=65.19(12"RCP) INV=64.89(12"RCP)
CB TF=74.96 INV=70.71(12"RCP) INV=70.61(12"RCP)
NET&TCO 35 USN 14
USN 14-1
WV TN=64.80
CB TF=64.54 56.54(12"RCP)
TF=64.62 INV=55.87(12"RCP) INV=55.42(12"RCP THRU)
NET&TCO 34 USN 15
CB TF=71.51 NO ACCESS
TF=72.85
NET&TCO 30
WV TN=68.12
SURVEY CONTROL #2 SPIKE N 171427.72 E 382598.01 Z 70.40
CB TF=69.63 INV=64.83(12"RCP) INV=64.68(12"RCP)
CB TF=68.89 NO ACCESS
NO MANHOLE
TF=58.91 INV=52.26(6"PVC) INV=52.21(6"PVC)
TF=58.55 INV=48.20(6"PVC) INV=48.15(6"PVC)
UNKNOWN 2"DP
GV
WSO
TF=57.05 INV=47.10(6"PVC) INV=46.85(6"PVC) INV=46.85(6"PVC) INV=46.79(6"PVC)
CB TF=52.55 SUMP=48.9 FULL OF WATER
CB TF=51.88 INV INACCESSIB

PLAN – PURITAN DRIVE

SCALE: 1"=20'

PLAN NORTH

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

APPR	DATE	DESCRIPTION	SYM

NAVFAC

MICHAEL J. SCANLON No. 1843 PROFESSIONAL LAND SURVEYOR SEAL

DiCESARE BENTLEY ENGINEERS/SURVEYORS/PLANNERS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES – DRW SEP CHK MJS

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 7 – EXISTING CONDITIONS – PART 1 OF 2

MAXIMO No.:

EPROJECT NO.: 1362578

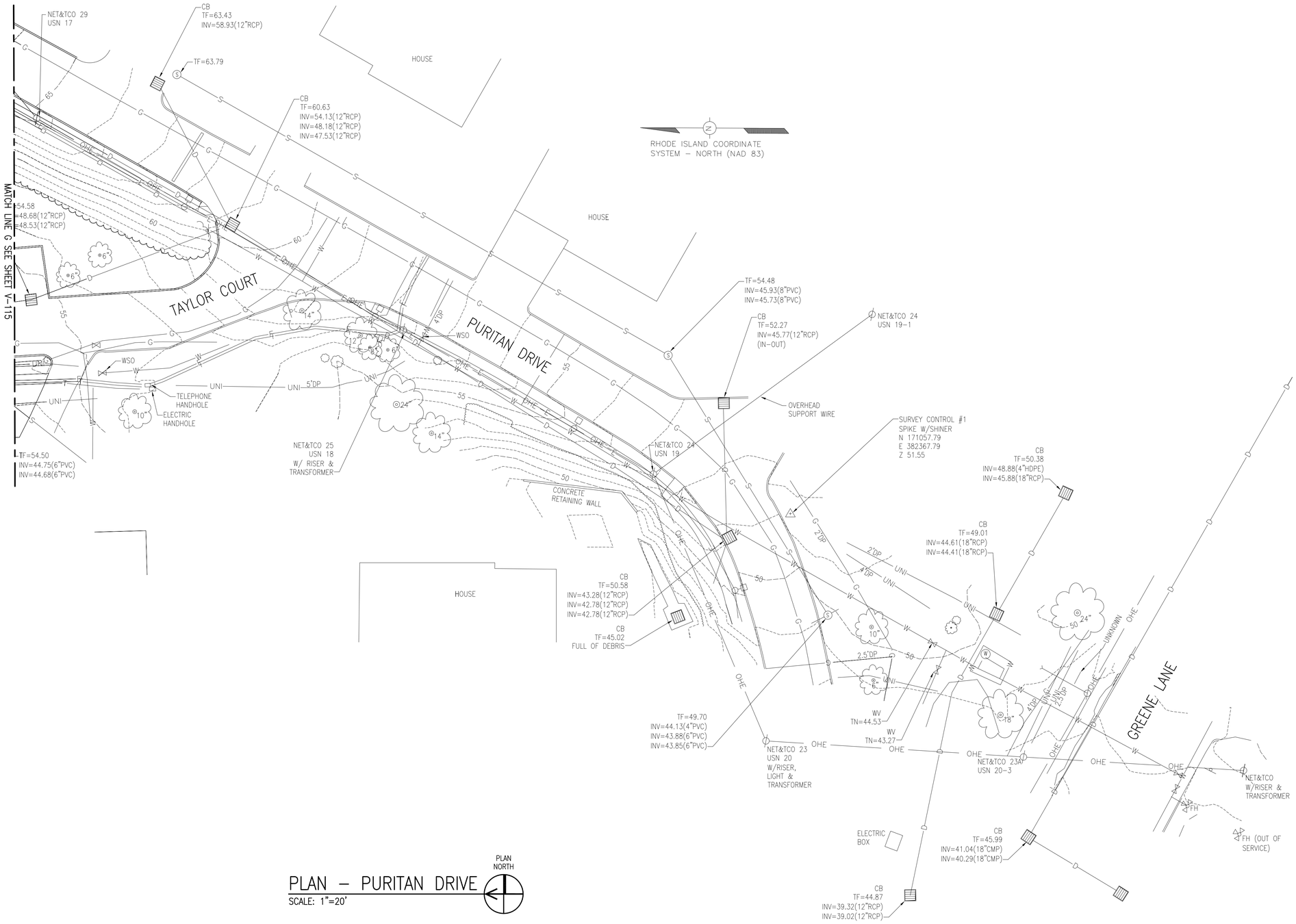
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706474

SHEET 27 OF 46

V-115 –

DRAWFORM REVISION: 27 APRIL 2015



PLAN – PURITAN DRIVE

SCALE: 1"=20'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

MICHAEL J. SCANLON
No. 1843
PROFESSIONAL LAND SURVEYOR
SEAL

DiCESARE BENTLEY
ENGINEERS/SURVEYORS/PLANNERS
A/E INFO

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ACTIVITY
SATISFACTORY TO DATE
DES – DRW SEP CHK MJS
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

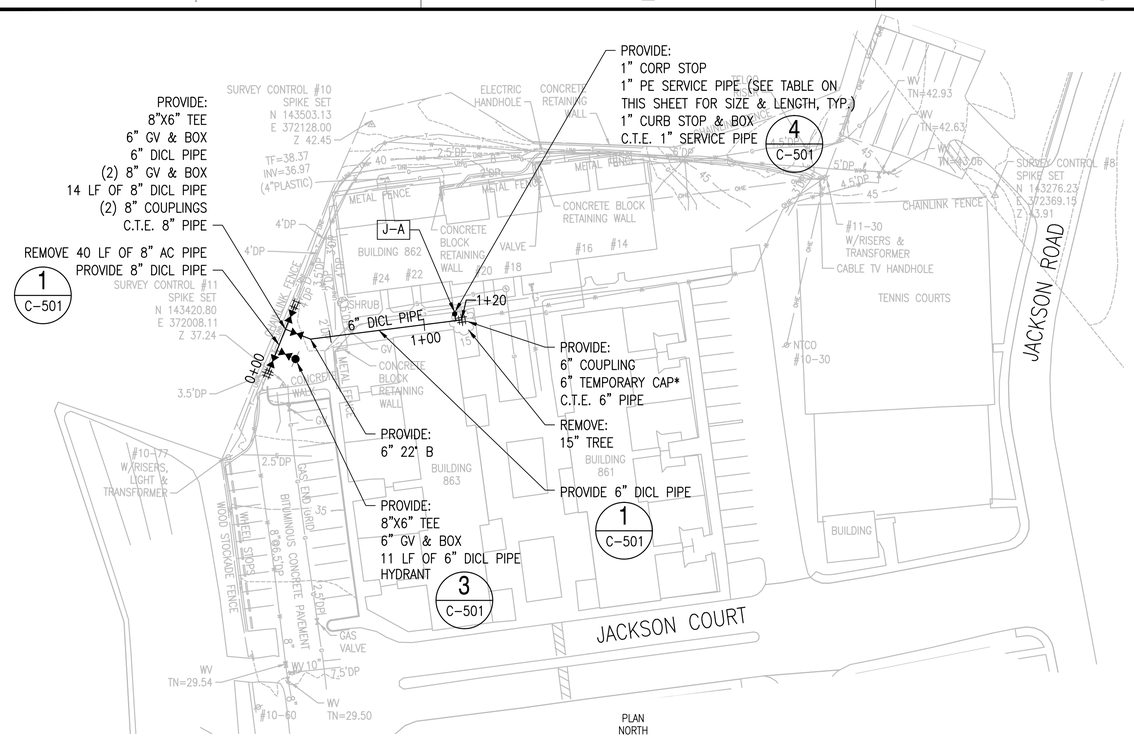
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 7 – EXISTING CONDITIONS – PART 2 OF 2

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706475
SHEET 28 OF 46
V-116 –

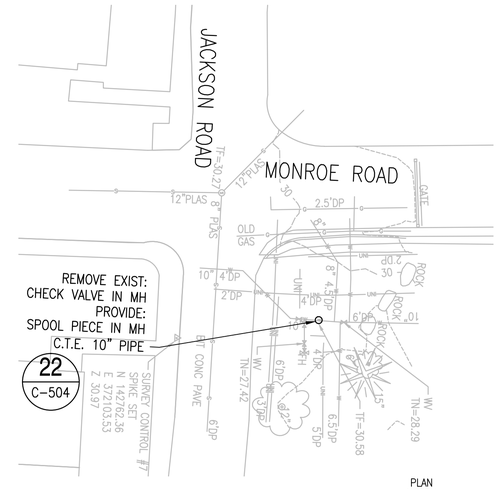
DRAWFORM REVISION: 27 APRIL 2015



PLAN A - JACKSON CT

SCALE: 1"=40'

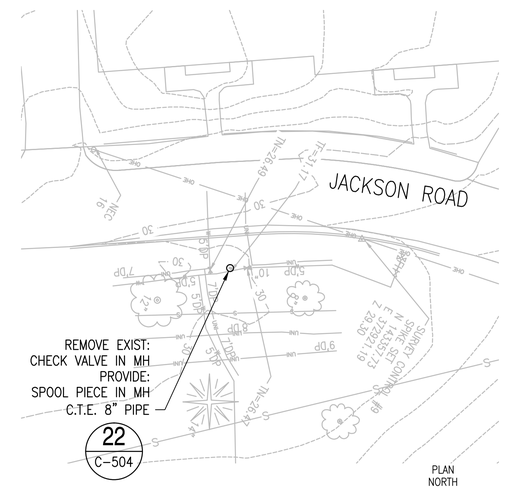
PLAN NORTH



PLAN B - JACKSON RD CHECK VALVE

SCALE: 1"=20'

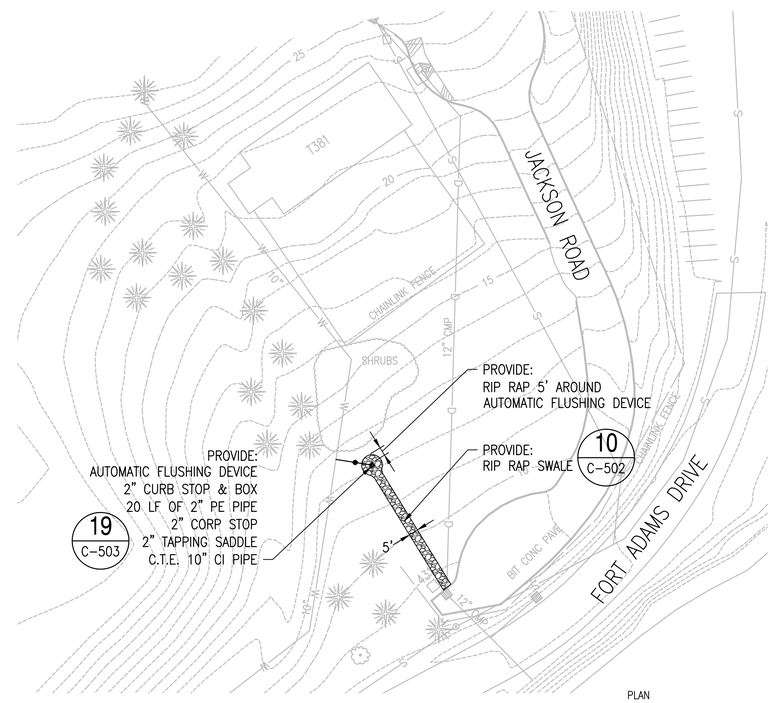
PLAN NORTH



PLAN C - JACKSON RD CHECK VALVE

SCALE: 1"=20'

PLAN NORTH



PLAN D (OPTION 2) - JACKSON RD FLUSHING DEVICE

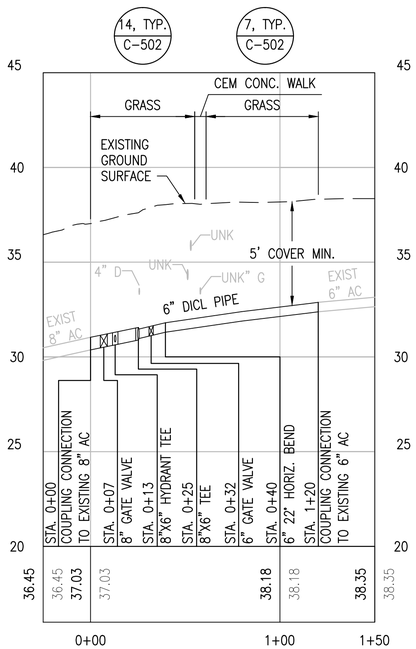
SCALE: 1"=40'

PLAN NORTH

HOUSE SERVICE	LENGTH OF 1-INCH PIPE (FT)
J-A	4
TOTAL	4

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2, SEE C-501.
4. FOR PLAN A WORK, SEE G-004.
5. FOR PLAN B WORK, SEE G-004.
6. FOR PLAN C WORK, SEE G-004.
7. * TEMPORARY CAP IS FOR CHLORINATION AND HYDROSTATIC TESTING PURPOSES. TEMPORARY CAP TO BE REMOVED AFTER WATER MAIN HAS PASSED TESTING AND CAN BE PUT ONLINE. TYPICAL FOR ALL LOCATIONS MARKED WITH *.



PROFILE A - JACKSON RD

HORIZ. SCALE: 1"=40'

VERT. SCALE: 1"=4'

GRAPHIC SCALE

1"=20' 20' 0 20' 40'

40' 0 40' 80' 1"=40'-0" HORIZONTAL

4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 1-FORT ADAMS PLAN & PROFILE-PART 1 OF 5

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706476

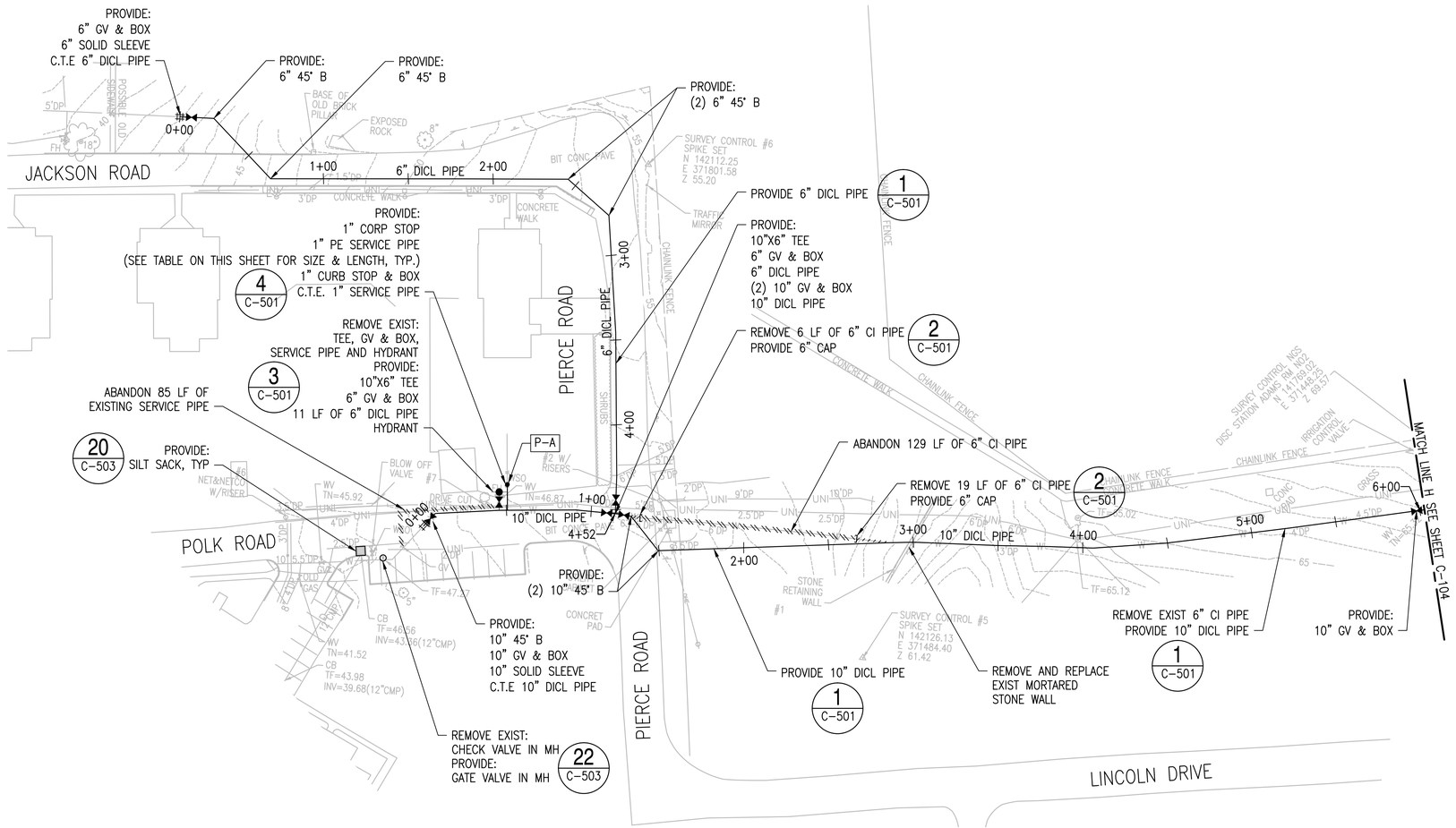
SHEET 29 OF 46

C-101 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Shrug\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-101 FORT ADAMS 1 PLOTTED: Tuesday, November 17, 2015 - 1:07pm USER: Stackp_R

HOUSE SERVICE	LENGTH OF 1-INCH PIPE (FT)
P-A	15
TOTAL	15



PLAN - JACKSON RD, PIERCE RD & POLK RD

SCALE: 1"=40'

PLAN NORTH

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR JACKSON RD & PIERCE RD PROFILE FROM STA. 0+00 TO STA. 4+52, SEE C-103. FOR POLK RD & LINCOLN DR PROFILE FROM STA. 0+00 TO STA. 6+00, SEE C-103.
5. ALL NEW SERVICE LINES INCLUDE REMOVAL OF EXISTING CURB STOP, INSTALLATION OF NEW CURB STOP AND CONNECTION TO EXISTING SERVICE LINE.
6. FOR BYPASS PLANS, SEE G-004.

GRAPHIC SCALE

1"=40' 40' 0 40' 80'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION
SYSTEM UPGRADES - PHASE 3

SITE 1 - FORT ADAMS PLAN - PART 2 OF 5

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

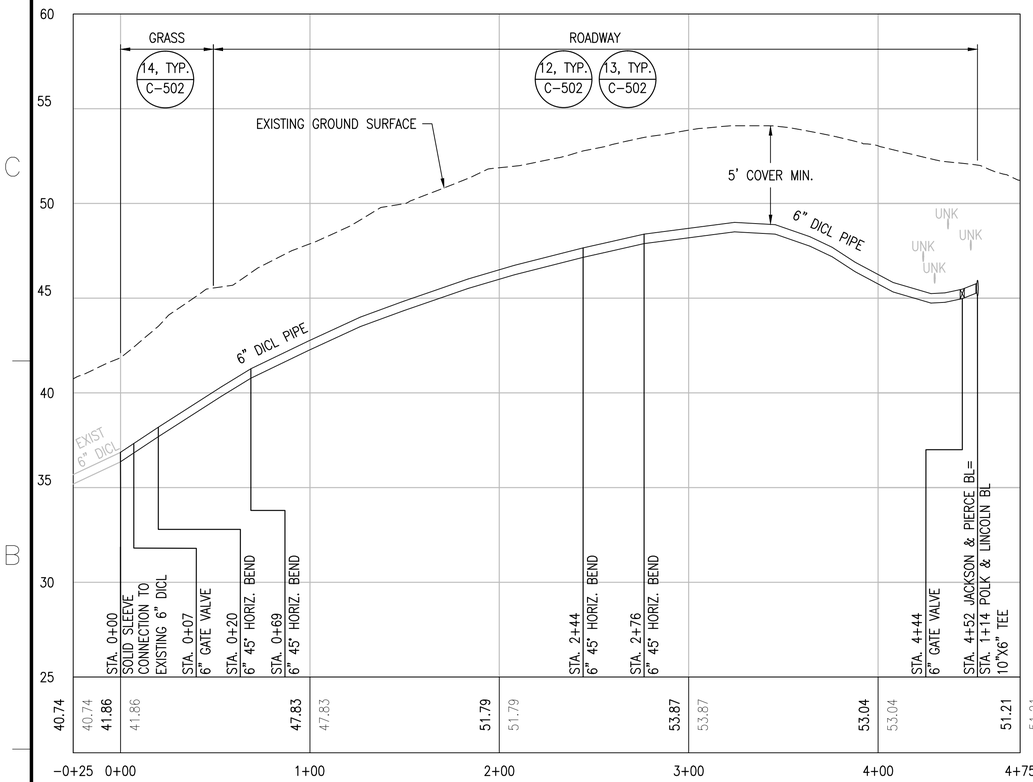
NAVFAC DRAWING NO. 12706477

SHEET 30 OF 46

C-102 -

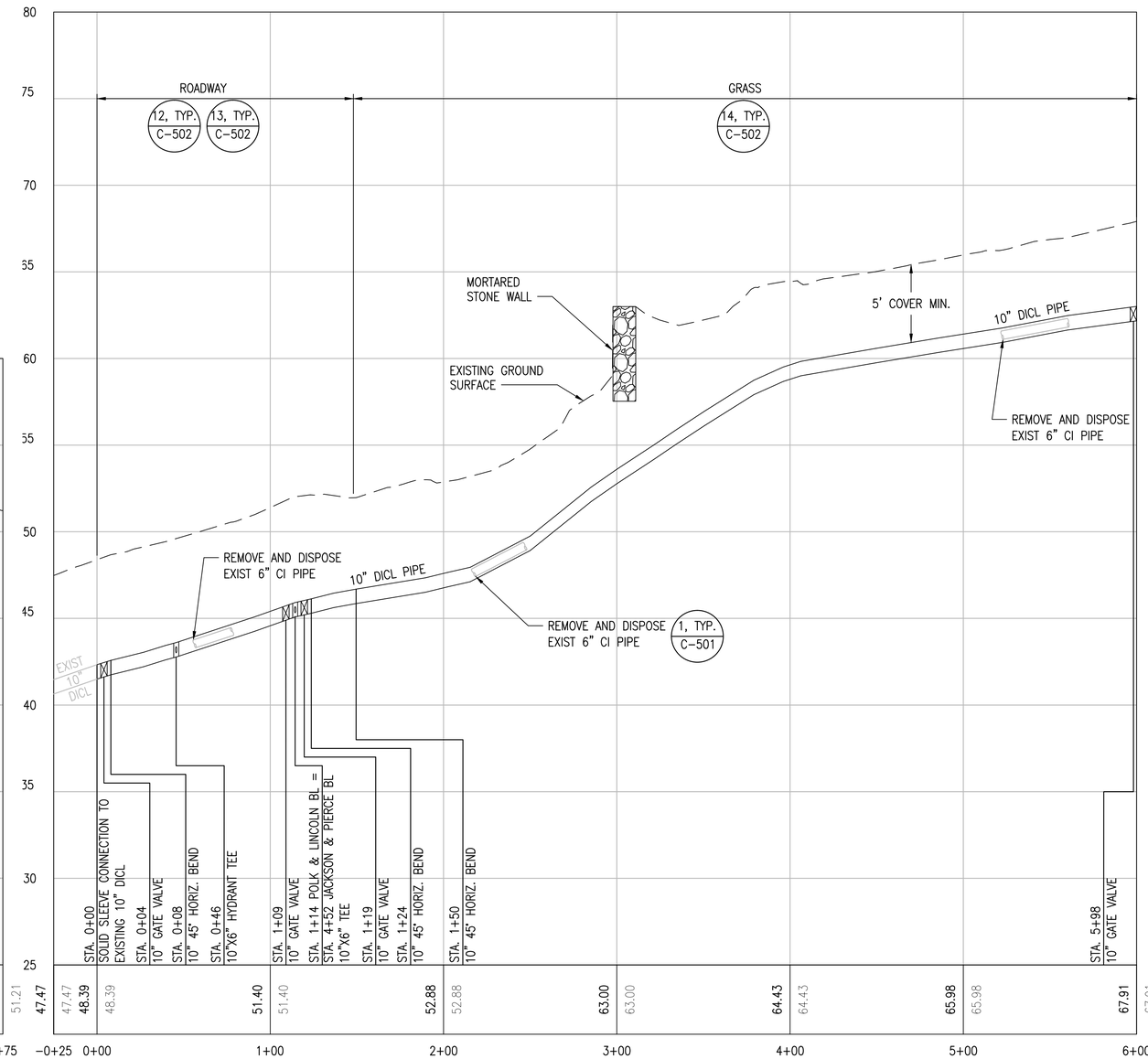
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-102 FORT ADAMS PLAN 1 PLOTTED: Tuesday, November 17, 2015 - 1:08pm USER: Stockp_R



PROFILE - JACKSON RD & PIERCE RD

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'



PROFILE - POLK RD & LINCOLN DR

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR JACKSON RD & PIERCE RD PLAN FROM STA. 0+00 TO STA. 4+52 SEE C-102. FOR POLK RD & LINCOLN DR PLAN FROM STA. 0+00 TO STA. 6+00 SEE C-102.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.

GRAPHIC SCALE

40' 0 40' 80'
4' 0 4' 8'
1"=40'-0" HORIZONTAL
1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15
SEAL

MNFST A JOINT VENTURE
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

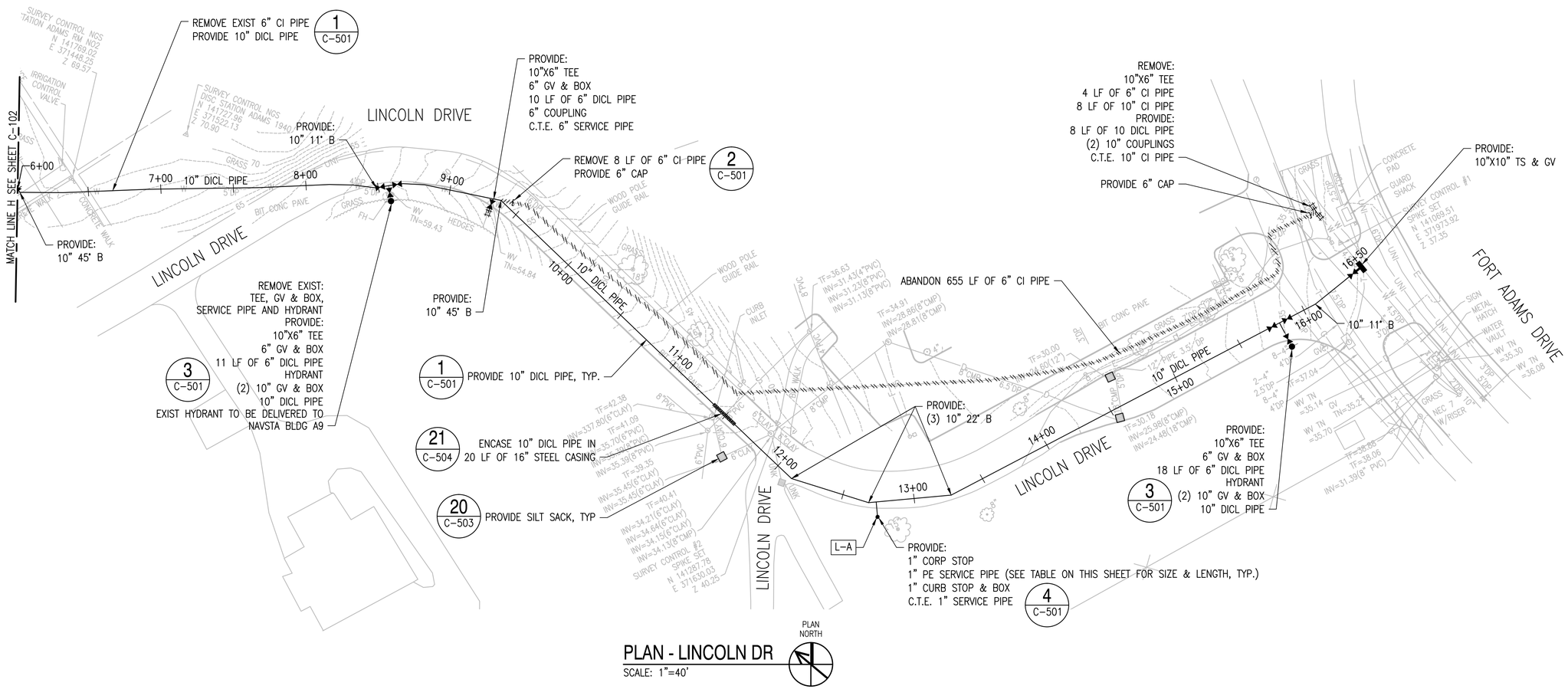
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION - NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 1 – FORT ADAMS PROFILE – PART 3 OF 5

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706478
SHEET 31 OF 46
C-103 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-103 FORT ADAMS PROF 1 PLOTTED: Tuesday, November 17, 2015 – 11:08pm USER: Stackp_R

HOUSE SERVICE	LENGTH OF 1-INCH PIPE (FT)
L-A	11
TOTAL	11



PLAN - LINCOLN DR

SCALE: 1"=40'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR PROFILE FROM STA. 6+00 TO STA. 16+50, SEE C-105.
4. HYDRANTS TO BE REMOVED FROM LINCOLN DR WILL BE DELIVERED TO NAVSTA BLDG A9.
5. HYDRANTS WITHIN FORT ADAMS TO COMPLY WITH CITY OF NEWPORT STANDARDS.
6. ALL NEW SERVICE LINES INCLUDE REMOVAL OF EXISTING CURB STOP, INSTALLATION OF NEW CURB STOP AND CONNECTION TO EXISTING SERVICE LINE.
5. FOR BYPASS PLANS, SEE G-004.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

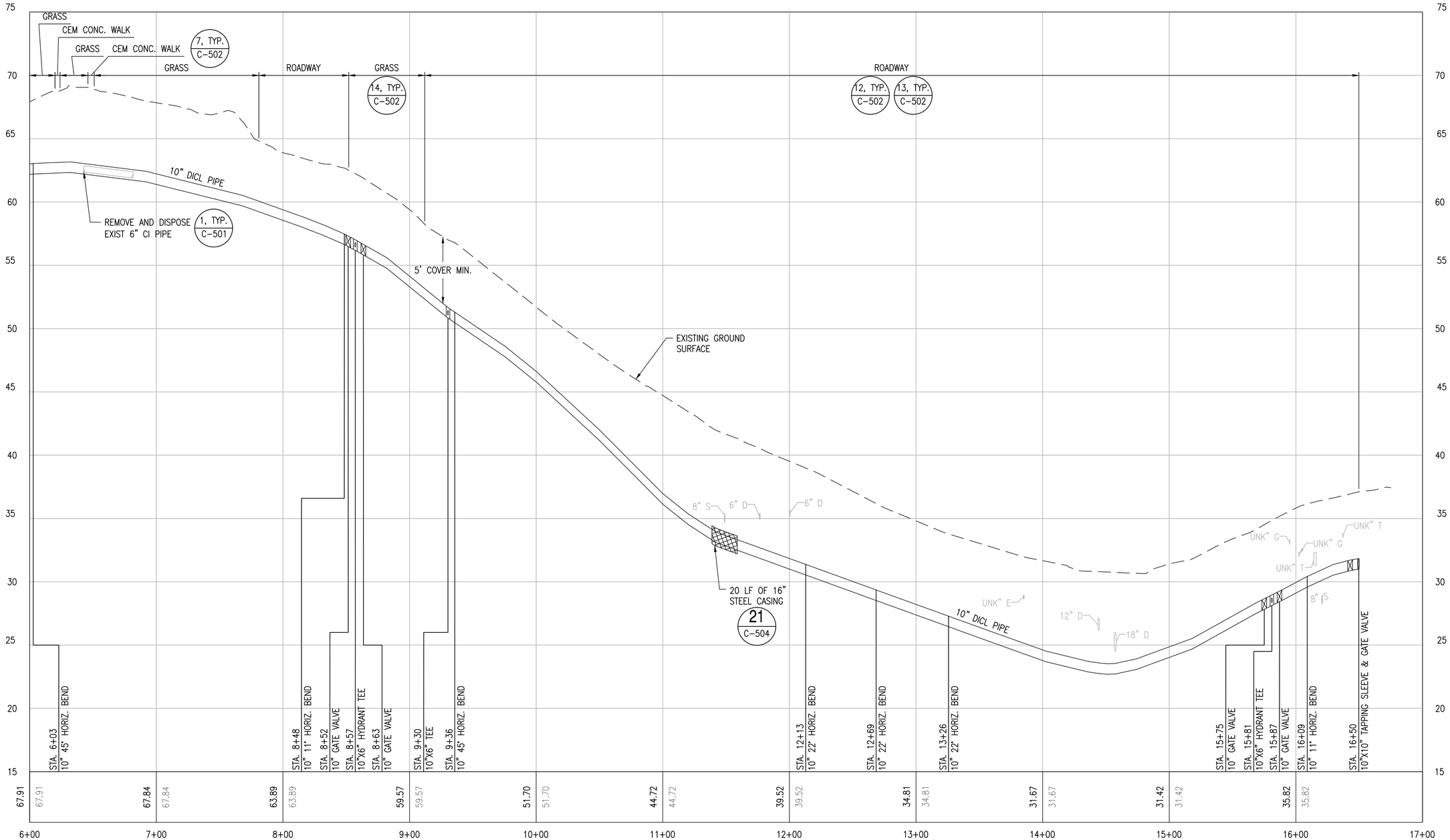
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 1 - FORT ADAMS PLAN - PART 4 OF 5

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706479
SHEET 32 OF 46
C-104 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\YP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-104 FORT ADAMS PLAN 2 PLOTTED: Tuesday, November 17, 2015 - 1:08pm USER: Stockp_R



PROFILE - LINCOLN DR

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR PLAN FROM STA. 6+00 TO STA. 16+50, SEE C-104.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

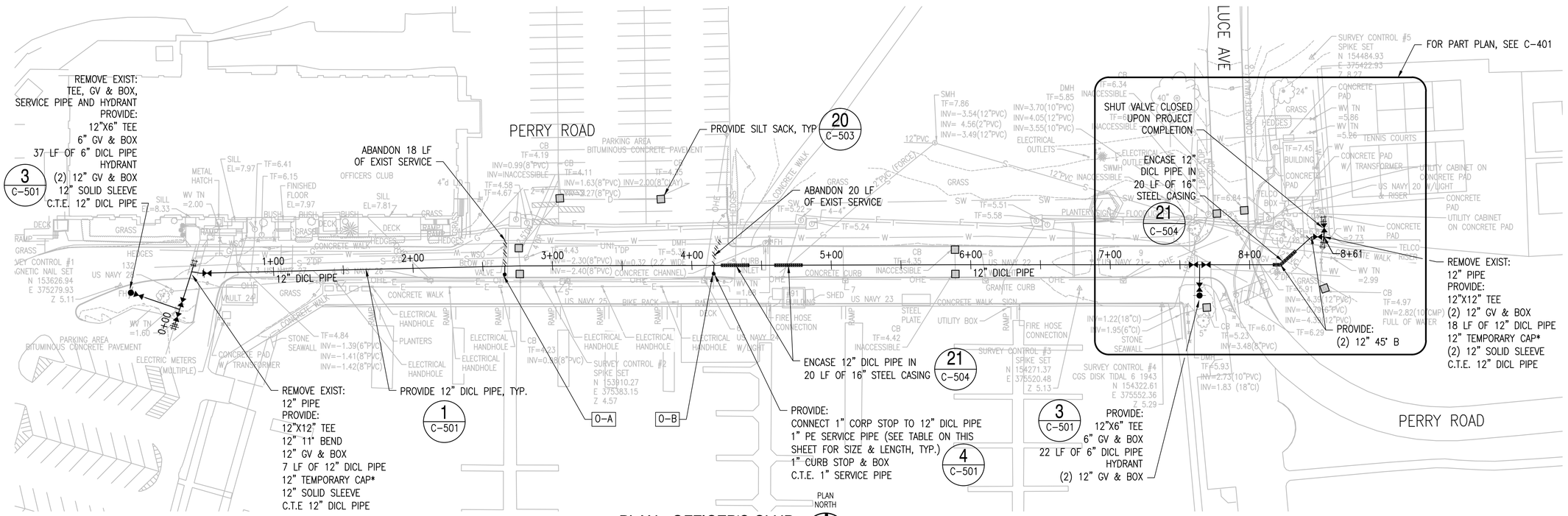
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 1 - FORT ADAMS PROFILE - PART 5 OF 5

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706480
SHEET 33 OF 46
C-105 -

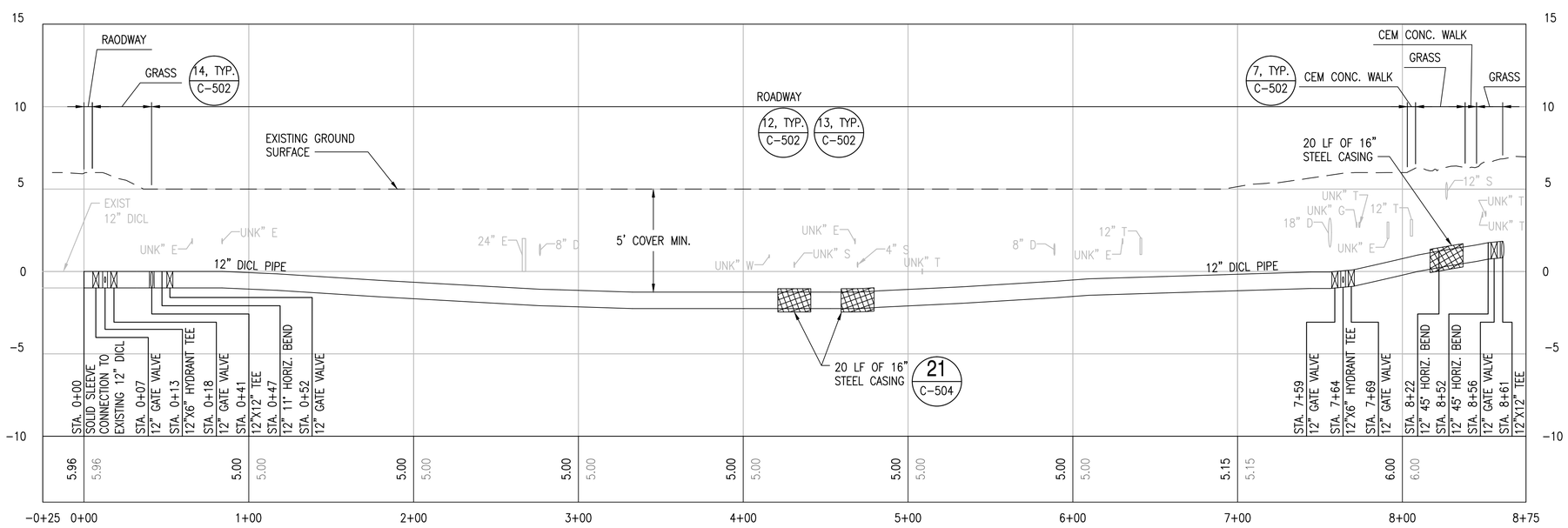
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-105 FORT ADAMS PROF 2 PLOTTED: Tuesday, November 17, 2015 - 1:08pm USER: Stockp_R



PLAN - OFFICER'S CLUB

SCALE: 1"=40'



PROFILE - OFFICER'S CLUB

HORIZ. SCALE: 1"=40'

VERT. SCALE: 1"=4'

HOUSE SERVICE	LENGTH OF 1-INCH PIPE (FT)
0-A	6
0-B	6
TOTAL	12

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS, SEE V-101 THROUGH V-116.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.
4. FOR BYPASS PLANS, SEE G-006.
5. * TEMPORARY CAP IS FOR CHLORINATION AND HYDROSTATIC TESTING PURPOSES. TEMPORARY CAP TO BE REMOVED AFTER WATER MAIN HAS PASSED TESTING AND CAN BE PUT ONLINE. TYPICAL FOR ALL LOCATIONS MARKED WITH *.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM DESCRIPTION DATE APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION
SYSTEM UPGRADES - PHASE 3

SITE 2 - OFFICER'S CLUB PLAN & PROFILE

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

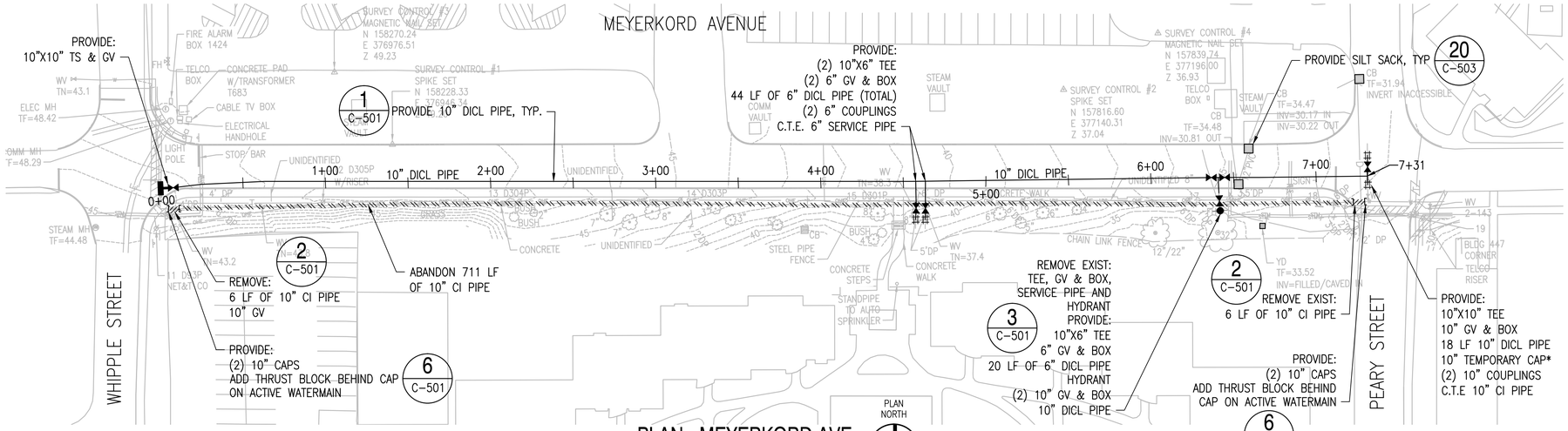
NAVFAC DRAWING NO.
12706481

SHEET 34 OF 46

C-106 -

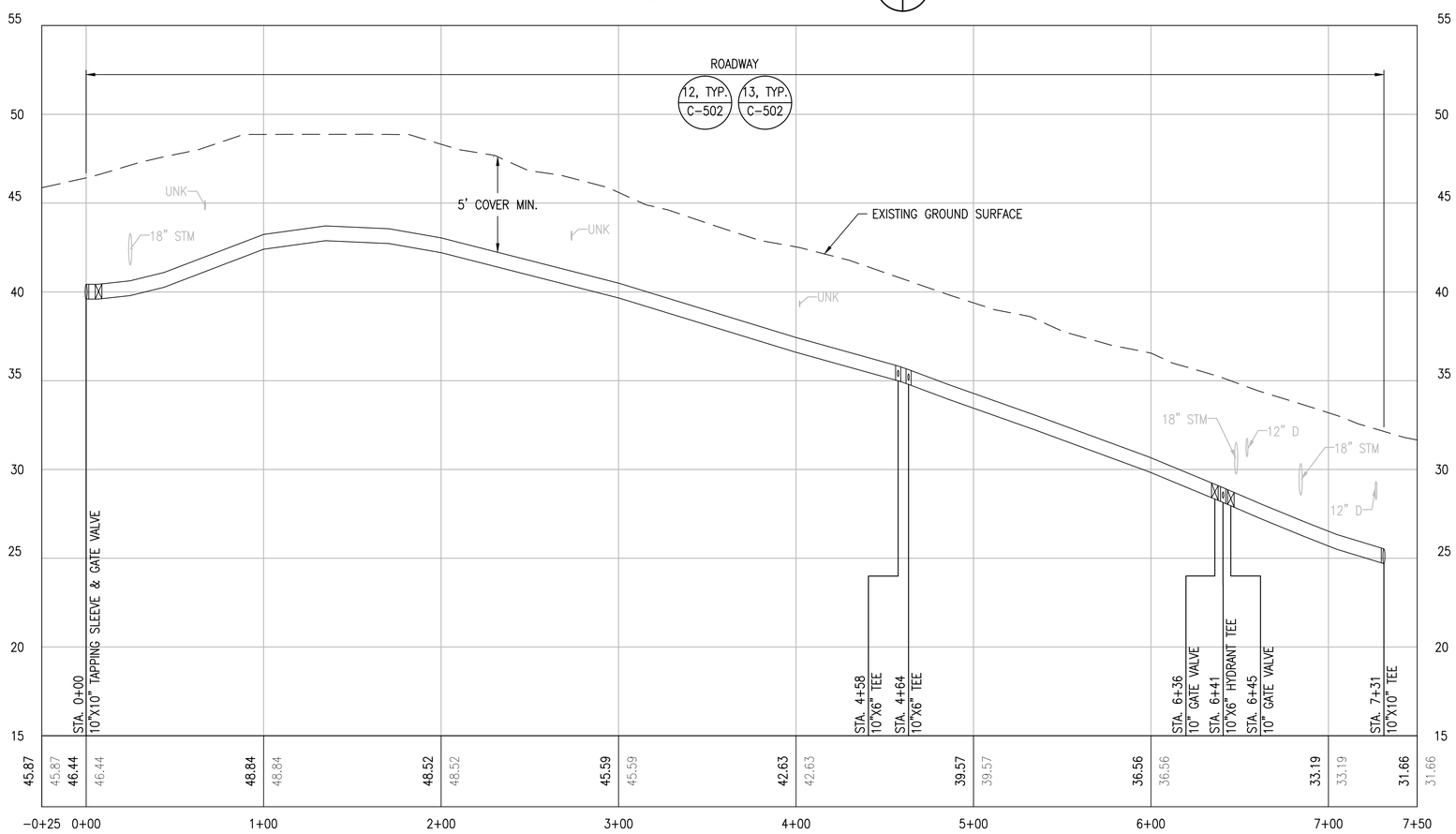
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-106 OCLUB PLOTTED: Tuesday, November 17, 2015 - 1:09pm USER: Stockp_R



PLAN - MEYERKORD AVE

SCALE: 1"=40'



PROFILE - MEYERKORD AVE

HORIZ. SCALE: 1"=40'

VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.
4. FOR BYPASS PLANS, SEE G-006.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL

4' 0 4' 8' 1"=4'-0" VERTICAL

APPR	DATE	DESCRIPTION	SYM

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15

SEAL

MNFST A JOINT VENTURE

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 3 – MEYERKORD AVENUE PLAN & PROFILE

MAXIMO NO.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

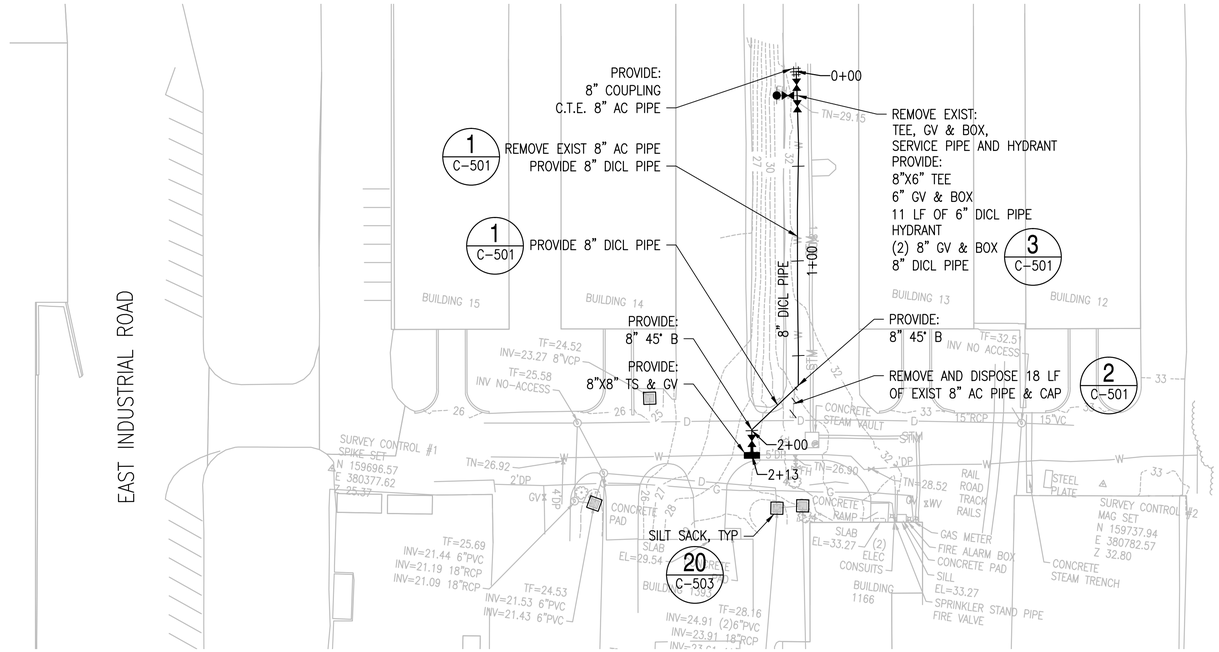
NAVFAC DRAWING NO. 12706482

SHEET 35 OF 46

C-107 -

DRAWFORM REVISION: 27 APRIL 2015

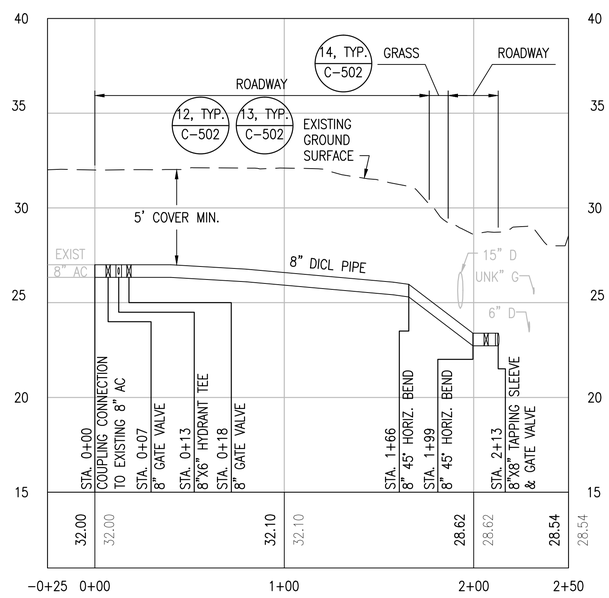
FILE NAME: P:\Stroz\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-107 MEYERKORD PLOTTED: Tuesday, November 17, 2015 - 1:09pm USER: Stackp_R



PLAN - EAST INDUSTRIAL RD

SCALE: 1"=40'

PLAN NORTH



PROFILE - EAST INDUSTRIAL RD

HORIZ. SCALE: 1"=40'

VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.
4. FOR BYPASS PLANS, SEE G-007.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL

4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RJS DRW RJS CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT - NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 4 - EAST INDUSTRIAL ROAD PLAN & PROFILE

MAXIMO NO.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706483

SHEET 36 OF 46

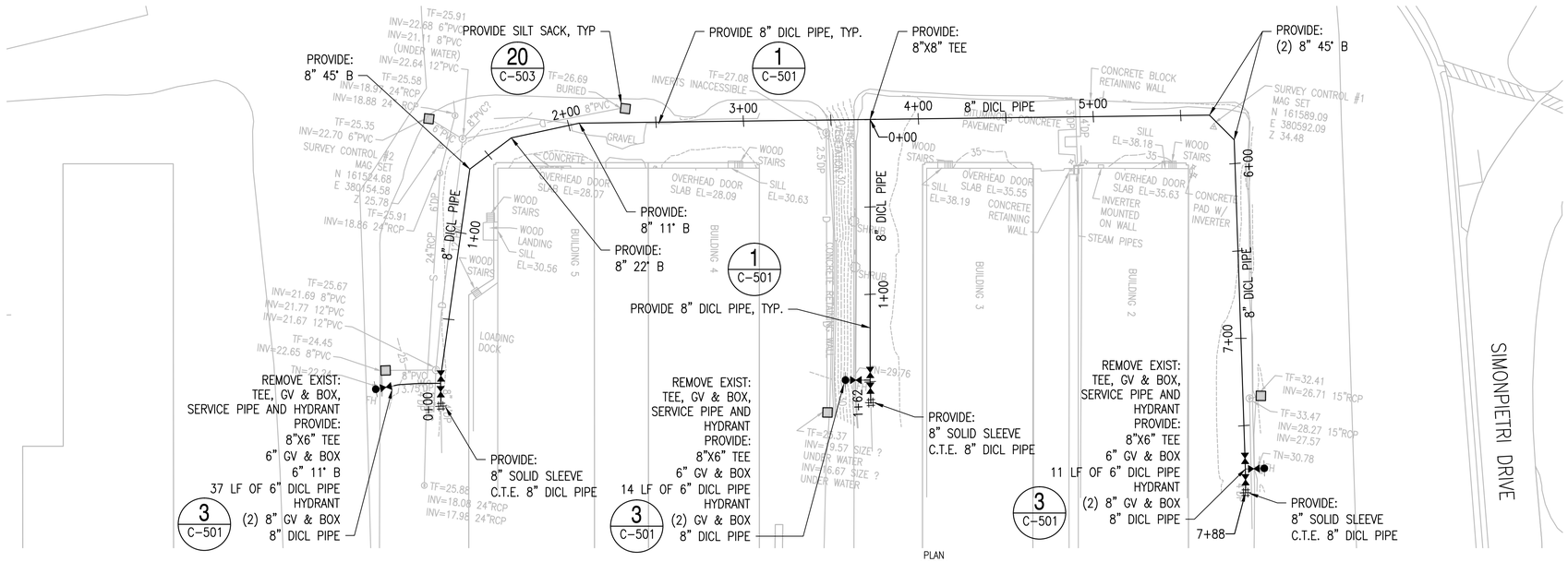
C-108 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-108 EAST INDUSTRIAL PLOTTED: Tuesday, November 17, 2015 - 1:10pm USER: Stockp_R

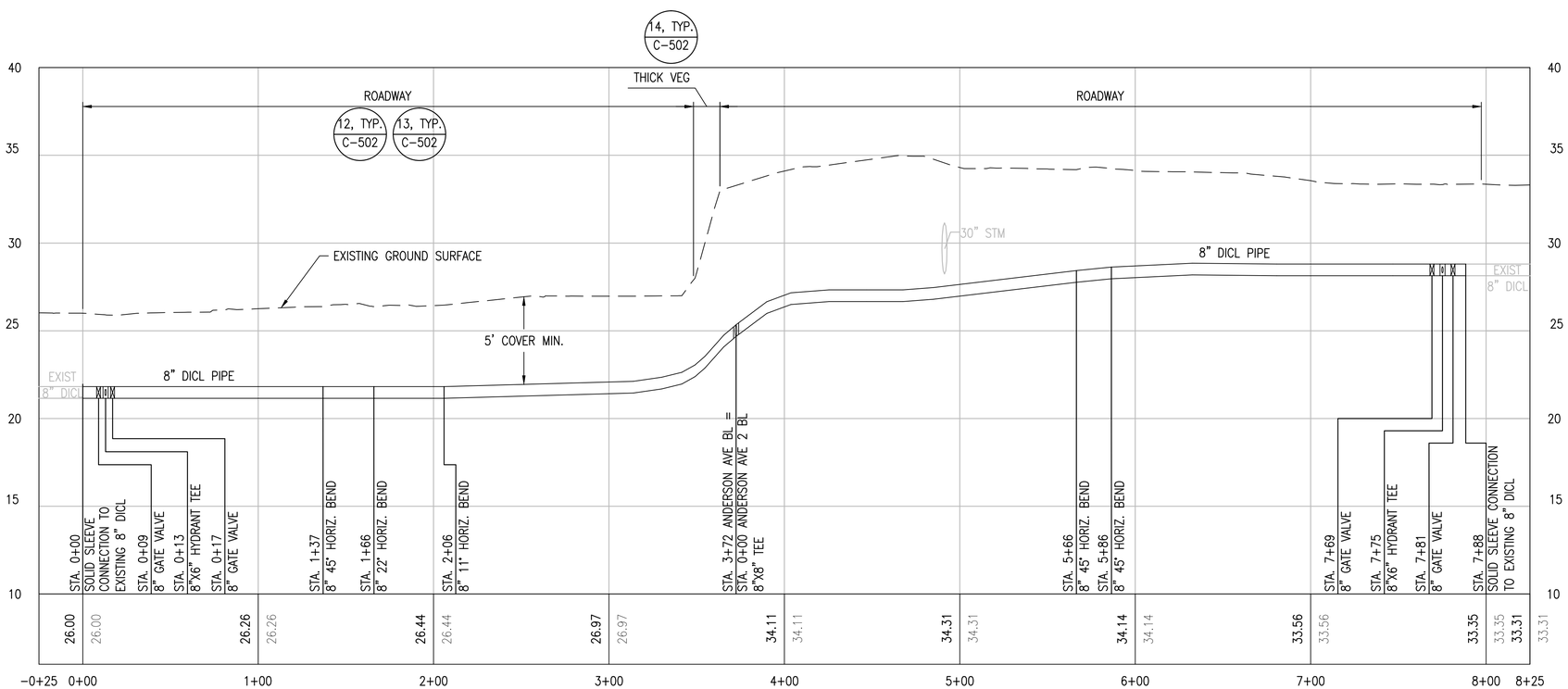
NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.
4. FOR BYPASS PLANS, SEE G-007.



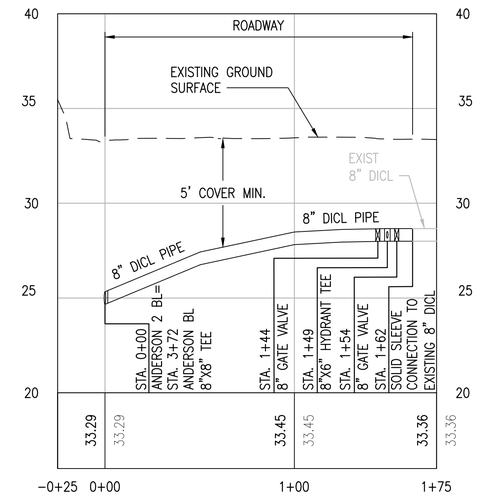
PLAN - ANDERSON AVE (OPTION 1)

SCALE: 1"=40'



PROFILE - ANDERSON AVE (OPTION 1)

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'



PROFILE - ANDERSON AVE 2

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

OPTION 1

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

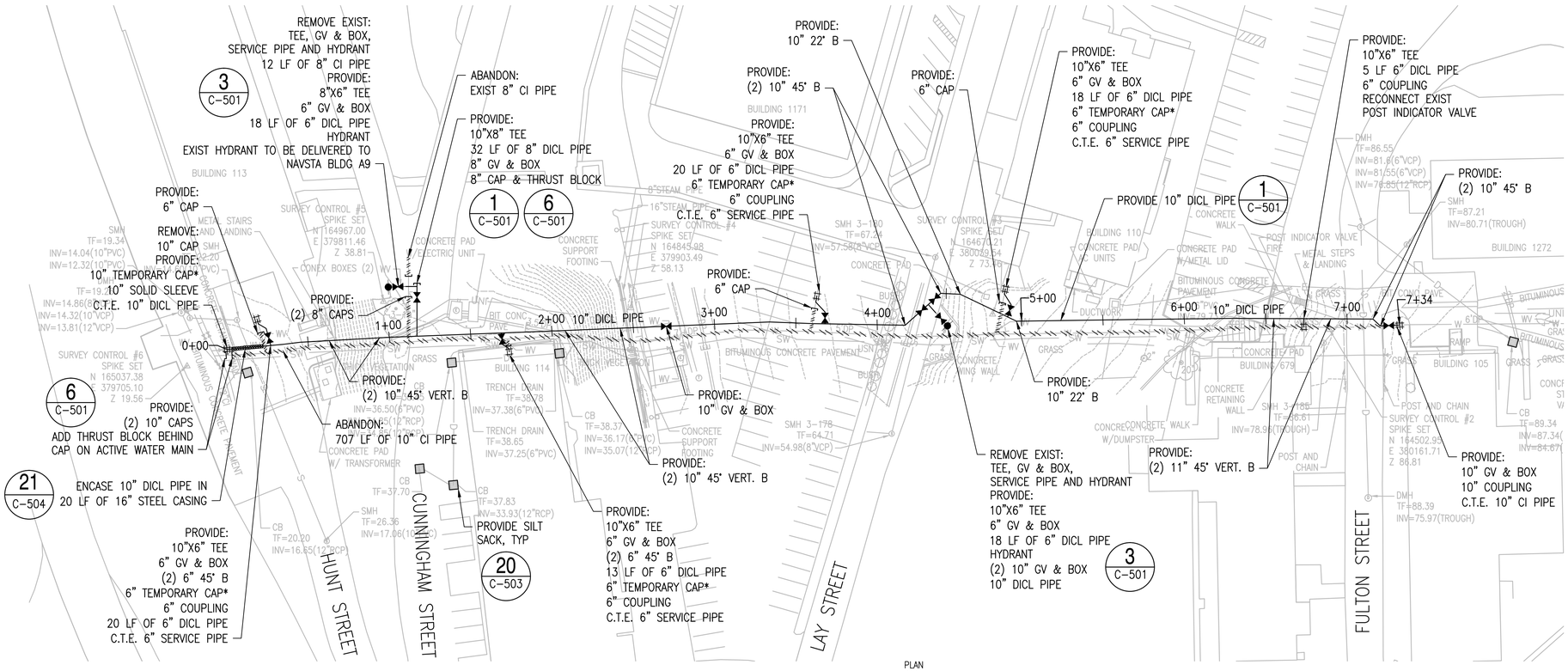
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PUBLIC WORKS DEPARTMENT ~ NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION ~ NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 5 – ANDERSON AVENUE PLAN & PROFILE

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706484
SHEET 37 OF 46
C-109 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Shrue\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-109 ANDERSON PLOTTED: Tuesday, November 17, 2015 - 1:10pm USER: Stockp_R



PLAN - NUWC

SCALE: 1"=40'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR PROFILE FROM STA. 0+00 TO STA. 7+12, SEE C-111.
4. FOR BYPASS PLAN, SEE G-008.
5. * TEMPORARY CAP IS FOR CHLORINATION AND HYDROSTATIC TESTING PURPOSES. TEMPORARY CAP TO BE REMOVED AFTER WATER MAIN HAS PASSED TESTING AND CAN BE PUT ONLIN E. TYPICAL FOR ALL LOCATIONS MARKED WITH *.

GRAPHIC SCALE

40' 0 40' 80'
4' 0 4' 8'
1"=40'-0" HORIZONTAL
1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
ERICA M. LOTZ
CIVIL
No. 45192
REGISTERED PROFESSIONAL ENGINEER
11/17/15
SEAL

MNFST
A JOINT VENTURE
A/E INFO

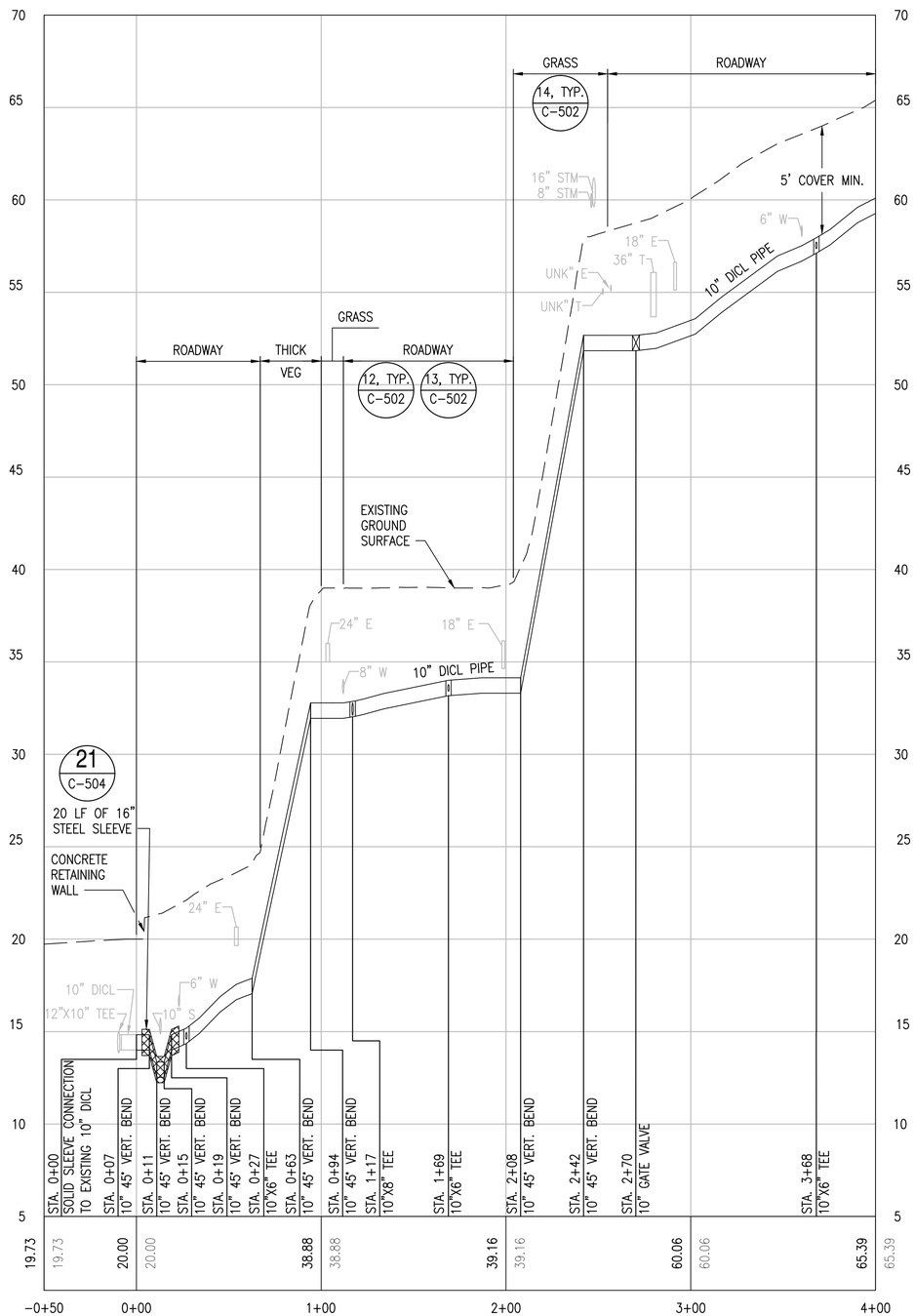
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION
SYSTEM UPGRADES - PHASE 3
SITE 6 – NUWC PLAN

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706485
SHEET 38 OF 46
C-110 -

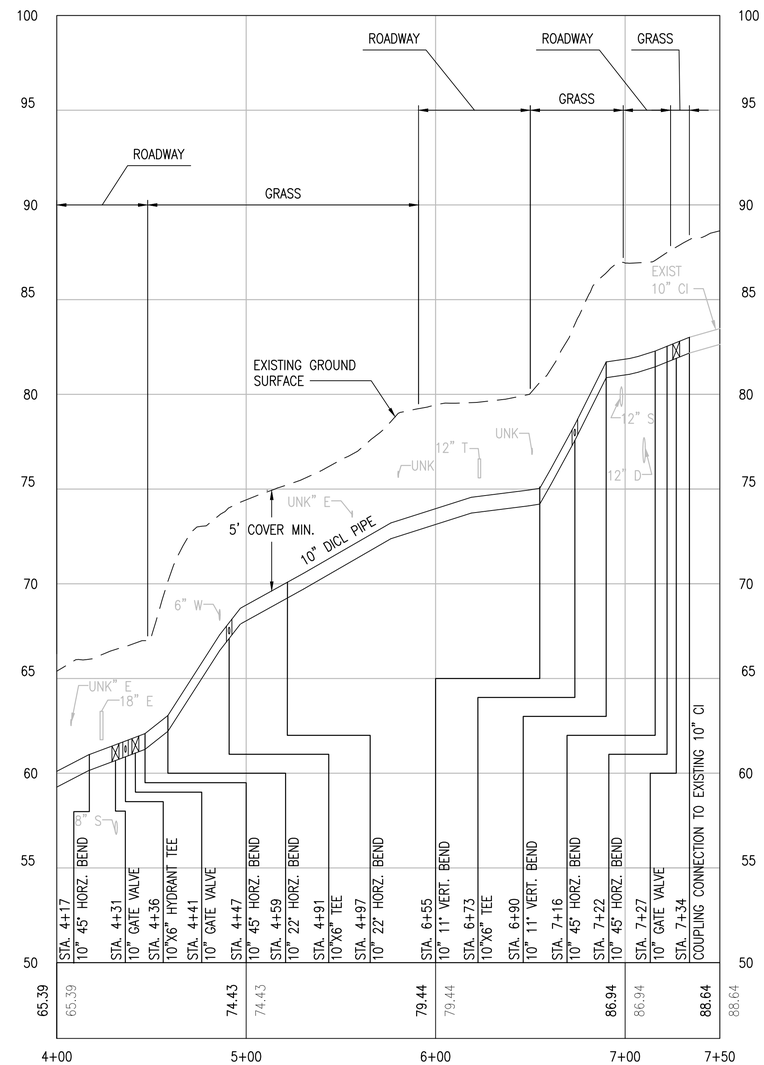
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-110 NUWC PLAN PLOTTED: Tuesday, November 17, 2015 - 1:11pm USER: Stockp_R



PROFILE - NUWC

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'



PROFILE - NUWC

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR PLAN FROM STA. 0+00 TO STA. 7+12, SEE C-110.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

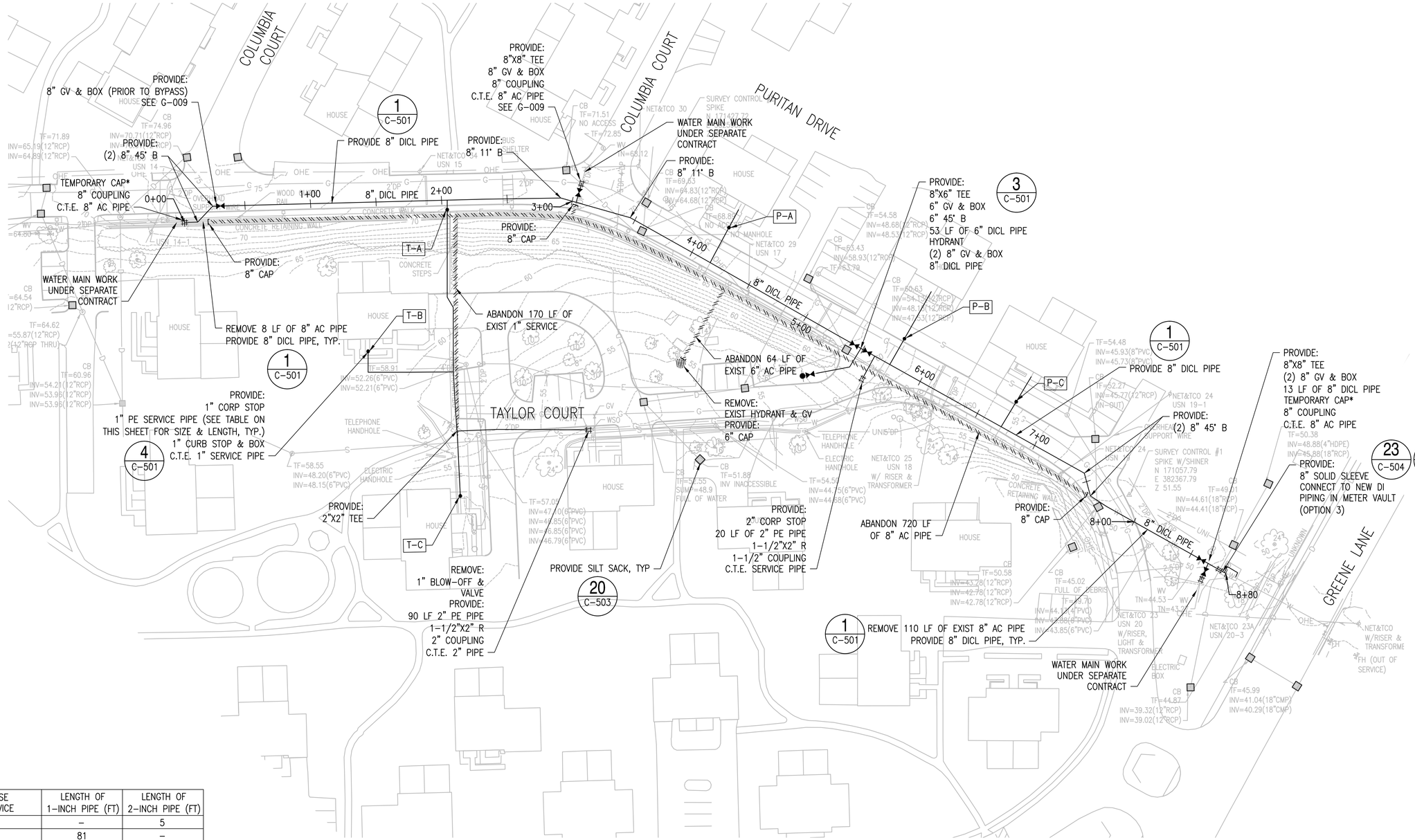
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES RJS DRW RJS CHK EML
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 6 – NUWC PROFILE

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706486
SHEET 39 OF 46
C-111 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Shrus\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-111 NUWC PROFILE PLOTTED: Tuesday, November 17, 2015 - 1:11pm USER: Stackp_R



HOUSE SERVICE	LENGTH OF 1-INCH PIPE (FT)	LENGTH OF 2-INCH PIPE (FT)
T-A	–	5
T-B	81	–
T-C*	–	222
P-A	46	–
P-B	64	–
P-C	45	–
TOTAL	422	227

* PROVIDE 1" BLOW-OFF WITH SERVICE (18 / C-503)

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR PROFILE FROM STA. 0+00 TO STA. 8+69, SEE C-113.
4. ALL NEW SERVICE LINES INCLUDE REMOVAL OF EXISTING CURB STOP, INSTALLATION OF NEW CURB STOP AND CONNECTION TO EXISTING SERVICE LINE.
5. FOR BYPASS PLAN, SEE G-009.

PLAN - PURITAN DR

SCALE: 1"=40'

PLAN NORTH

GRAPHIC SCALE

40' 0 40' 80'
4' 0 4' 8'
1"=40'-0" HORIZONTAL
1"=4'-0" VERTICAL

SYM | DESCRIPTION | DATE | APPR

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COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

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DEPARTMENT OF THE NAVY
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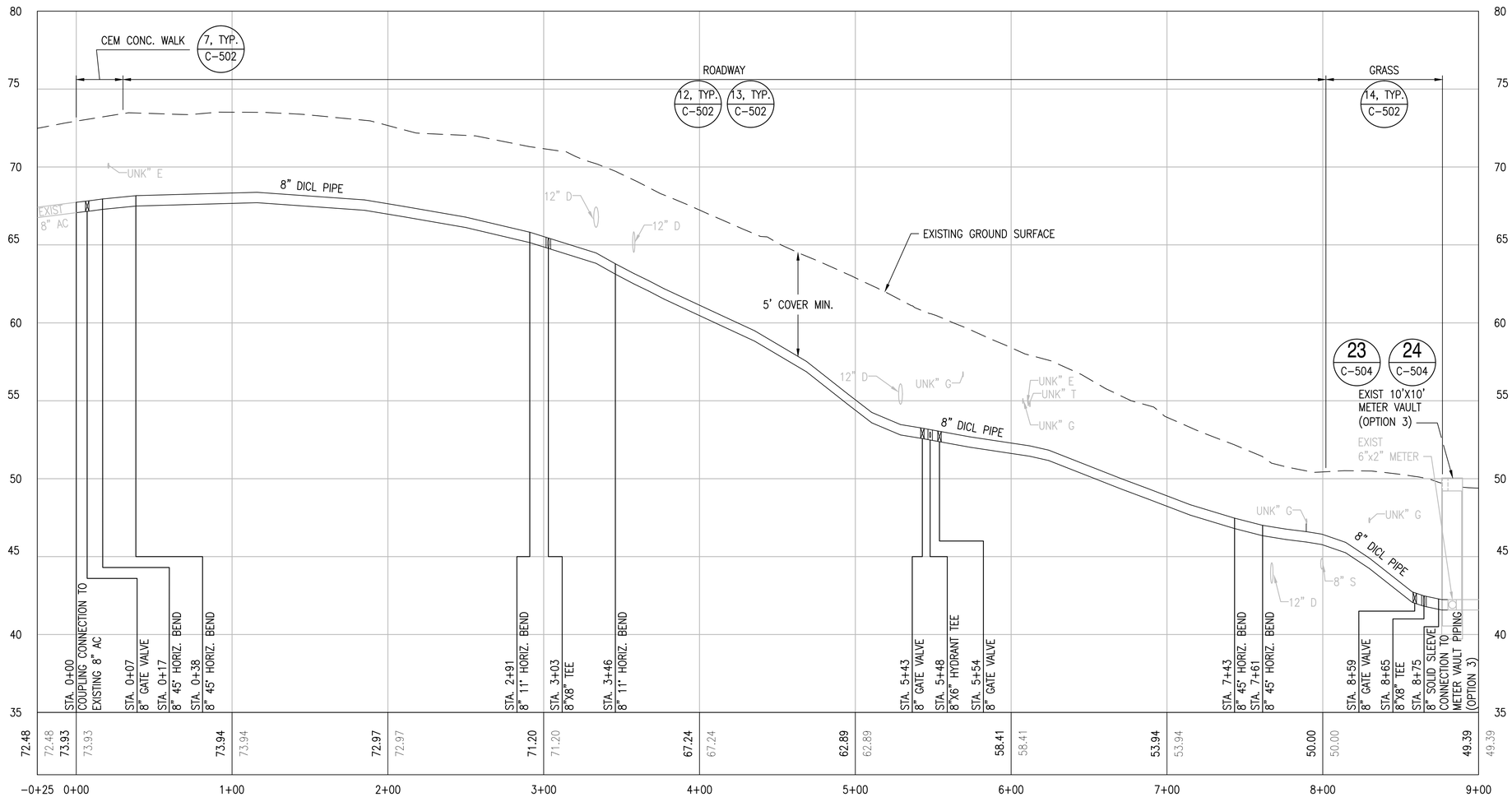
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
SITE 7– PURITAN DRIVE PLAN

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706487
SHEET 40 OF 46
C-112 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\YP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-112 PURITAN PLAN PLOTTED: Tuesday, November 17, 2015 - 1:11pm USER: Stockp_R



PROFILE - PURITAN DR

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR PLAN FROM STA. 0+00 TO STA. 8+69, SEE C-112.
3. FOR RESTRAINED LENGTHS OF PIPE AND FITTINGS SEE DETAIL 5, DETAIL 6, TABLE 1 AND TABLE 2 ON SHEET C-501.

GRAPHIC SCALE

40' 0 40' 80'
4' 0 4' 8'
1"=40'-0" HORIZONTAL
1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

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FIRE PROTECTION

DEPARTMENT OF THE NAVY
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PUBLIC WORKS DEPARTMENT - NEWPORT
NAVAL STATION NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NEWPORT, RHODE ISLAND

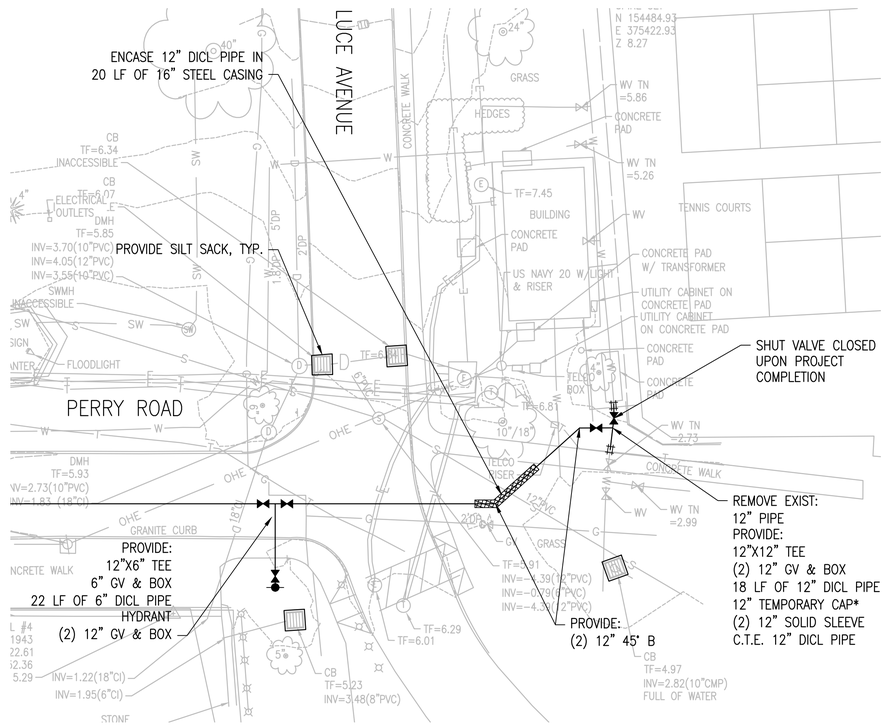
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

SITE 7 – PURITAN DRIVE PROFILE

MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706488
SHEET 41 OF 46
C-113 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-101- C-111.dwg LAYOUT NAME: C-113 PURITAN PROFILE PLOTTED: Tuesday, November 17, 2015 - 1:12pm USER: Stackp_R



PART PLAN - OFFICER'S CLUB

SCALE: 1"=20'

NOTE:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS, SEE G-002.
2. FOR EXISTING CONDITIONS SURVEY, SEE V-101 THROUGH V-116.
3. FOR PLAN AND PROFILE FROM STA. 0+00 TO 8+24, SEE C-106

GRAPHIC SCALE

40' 0 40' 80' 1"=40'-0" HORIZONTAL
4' 0 4' 8' 1"=4'-0" VERTICAL

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

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FOR COMMANDER NAVFAC

ACTIVITY

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PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION
SYSTEM UPGRADES - PHASE 3

SITE 2 – OFFICER'S CLUB – PART PLAN

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

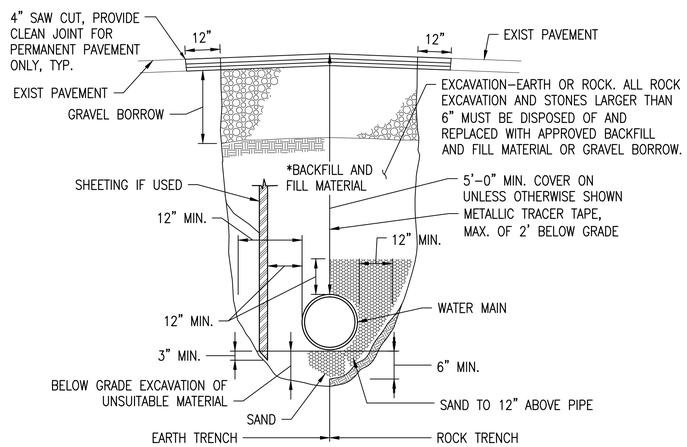
NAVFAC DRAWING NO. 12706489

SHEET 42 OF 46

C-401 -

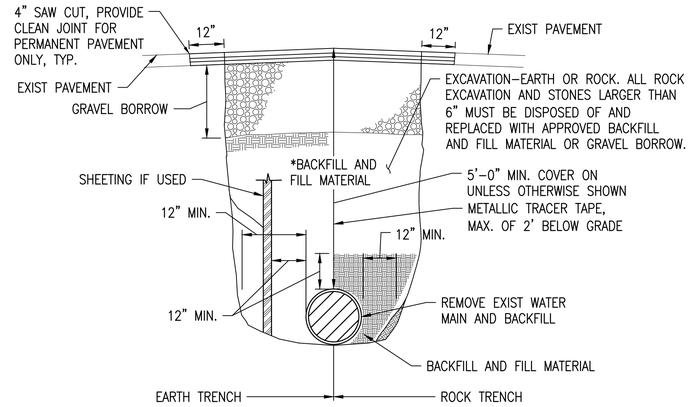
DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroz\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-401.dwg LAYOUT NAME: C-401 OCLUB PLOTTED: Tuesday, November 17, 2015 - 1:12pm USER: Stockp_R



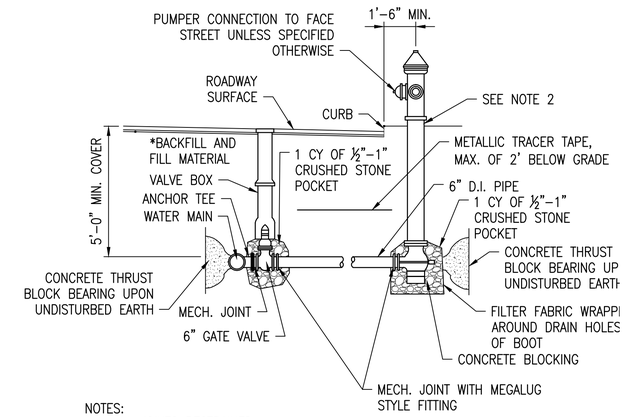
TYPICAL PIPE INSTALLATION TRENCH SECTION (1)

SCALE: NTS C-101, C-102, C-104, C-105, C-106, C-107, C-108, C-109, C-110, C-112



TYPICAL PIPE REMOVAL TRENCH SECTION (2)

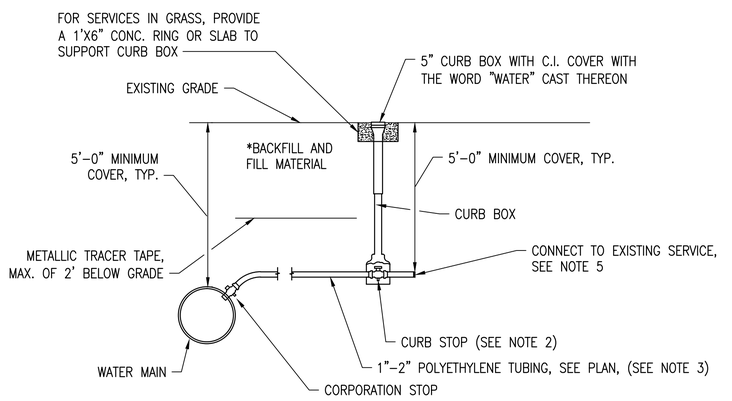
SCALE: NTS C-102, C-103, C-104, C-107, C-108



NOTES:
1. ALL JOINTS RESTRAINED.
2. HYDRANT FLANGE MUST BE INSTALLED MINIMUM 2" TO MAXIMUM 6" ABOVE GRADE.

NEW HYDRANT CONNECTION (3)

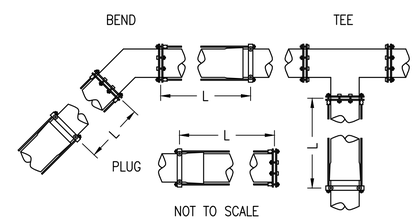
SCALE: NTS C-101, C-102, C-104, C-106, C-107, C-108, C-109, C-110, C-112



NOTES:
1. SAND BEDDING TO BE PROVIDED ALONG LENGTH OF SERVICE PIPE TO A DEPTH OF 6–INCHES ABOVE AND 6–INCHES BELOW THE SERVICE PIPE.
2. NEW CURB STOPS MUST BE EXERCISED.
3. WATER AND SEWER MUST BE PROVIDED WITH MINIMUM 10–FOOT HORIZONTAL AND 18–INCH VERTICAL SEPARATION.
4. REFER TO C–101 THROUGH C–112 FOR SERVICE LENGTH AND LOCATION.
5. CONNECTION BETWEEN NEW WATER SERVICE AND EXISTING WATER SERVICE SHALL BE MADE WITH COMPRESSION TYPE COUPLINGS AND ADAPTERS.

WATER SERVICE DETAIL (4)

SCALE: NTS C-101, C-102, C-104, C-106, C-112



NOTE:
1. SEE TABLE 1 FOR REQUIRED RESTRAINED PIPE LENGTHS.

NOTE: FOR HORIZONTAL BENDS ONLY
L = MINIMUM LENGTH OF PIPE TO BE RESTRAINED (FEET)

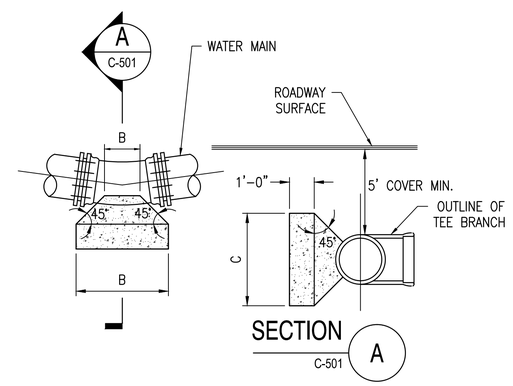
JOINT RESTRAINT DETAIL (5)

SCALE: NTS C-101, C-103, C-105, C-106, C-107, C-108, C-109, C-113

TABLE 1

PIPELINE THRUST RESTRAINT DETAIL/SCHEDULE
RESTRAINED PIPE LENGTHS (L) (FT. – EITHER SIDE OF FITTING)
(HORIZ. BEND/VERT. DOWN BEND)
DESIGN/TEST PRESSURE = 150 PSI

BEND	6"	8"	10"	12"	16"
90°	42'/60'	56'/80'	67'/96'	80'/144'	104'/148'
45°	18'/25'	23'/33'	28'/40'	33'/47'	43'/62'
22.5°	9'/12'	12'/16'	14'/19'	16'/23'	21'/30'
11.25°	5'/6'	6'/8'	7'/10'	8'/12'	11'/15'
TEE/PLUG	31'/44'	41'/59'	50'/71'	59'/84'	77'/110'



CONCRETE THRUST BLOCK (SF)

B x C = BEARING AREA (SF) UPON UNDISTURBED SOIL

NOTE:
1. SEE TABLE 2 FOR REQUIRED THRUST BLOCK BEARING AREA.

HORIZONTAL THRUST BLOCK (6)

SCALE: NTS C-101, C-103, C-105, C-106, C-107, C-108, C-109, C-110, C-113

TABLE 2

PIPELINE THRUST RESTRAINT DETAIL/SCHEDULE
DESIGN/TEST PRESSURE = 150 PSI
CONCRETE THRUST BLOCK – REQUIRED BEARING AREAS (SF)
ASSUMED SOIL BEARING CAPACITY = 2,000 PSF

BEND	6"	8"	10"	12"	16"
90°	4.5	8.0	12.5	18.0	32.0
45°	3.0	4.5	7.0	10.0	17.0
22.5°	1.5	2.5	3.5	5.0	9.0
11.25°	1.0	1.5	2.0	2.5	4.5
PLUG/TEE	3.0	6.0	9.0	13.0	23.0

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

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DEPARTMENT OF THE NAVY
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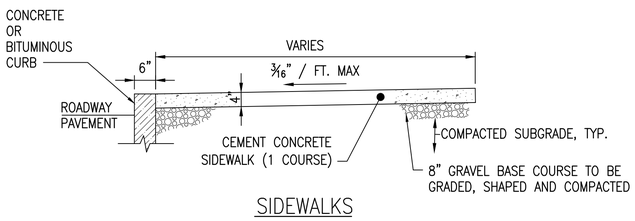
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3
STANDARD DETAILS – SHEET 1 OF 4

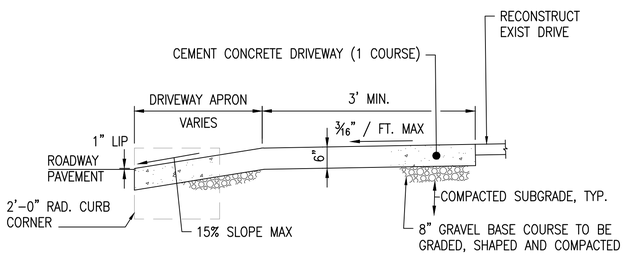
MAXIMO No.:
EPROJECT NO.: 1362578
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12706490
SHEET 43 OF 46
C-501 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-501-503 STANDARD DETAILS.dwg LAYOUT NAME: C-501 PLOTTED: Tuesday, November 17, 2015 - 1:29pm USER: Stackp_R



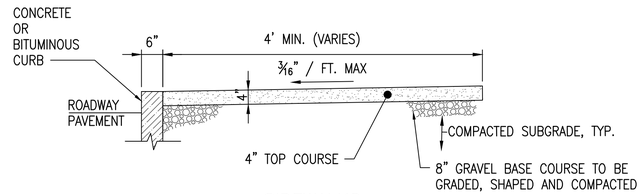
SIDEWALKS



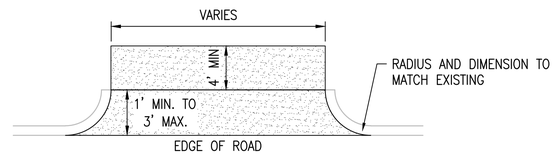
DRIVEWAYS

CEMENT CONCRETE SIDEWALKS AND DRIVEWAYS

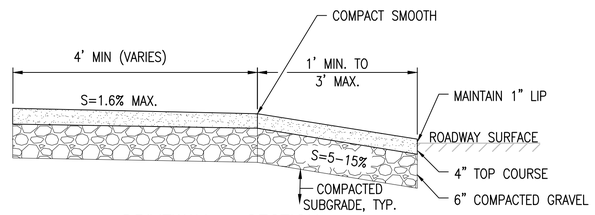
SCALE: NTS — C-101, C-105, C-106, C-113 — 7



SIDEWALKS



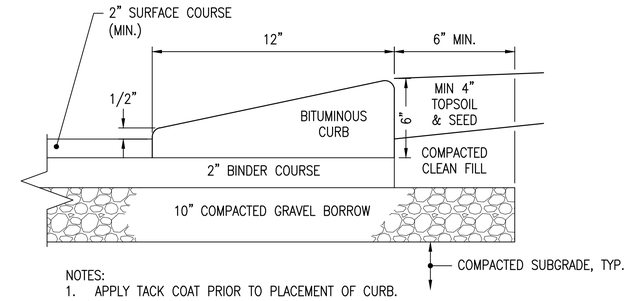
DRIVEWAY – PLAN



DRIVEWAY – SECTION

BITUMINOUS CONCRETE SIDEWALKS & DRIVEWAY

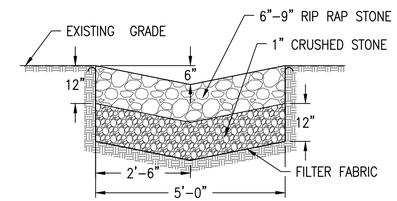
SCALE: NTS — 8



NOTES:
1. APPLY TACK COAT PRIOR TO PLACEMENT OF CURB.

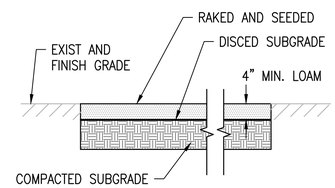
TYPICAL CAPE COD BERM

SCALE: NTS — 9



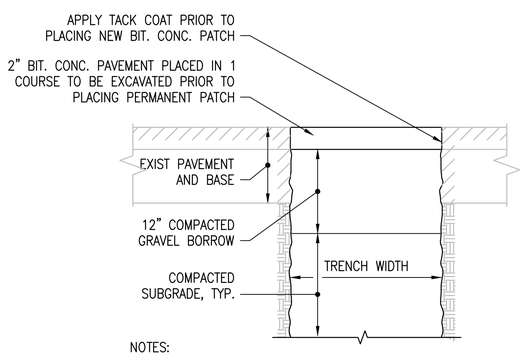
RIP RAP SWALE

SCALE: NTS — C-101 — 10



TURF AREA RESTORATION

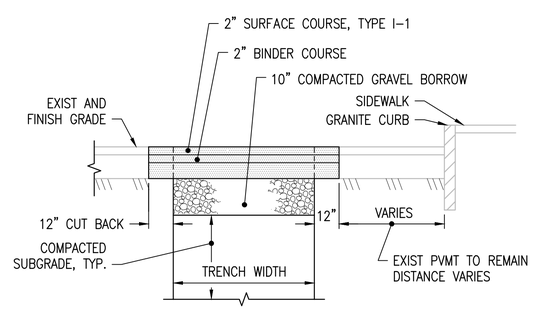
SCALE: NTS — 11



NOTES:
1. REMOVE AND DISPOSE OF TOP 4" OF BIT CONC.
2. REMOVE AND DISPOSE OF TOP 10" OF GRAVEL.

TEMPORARY BITUMINOUS CONCRETE TRENCH DETAIL

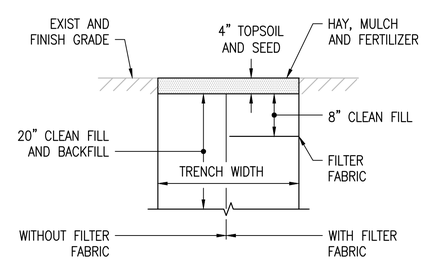
SCALE: NTS — C-103, C-105, C-106, C-107, C-108, C-109, C-111, C-113 — 12



NOTE:
1. TACK COAT ALL VERTICAL SURFACES OF EXISTING BITUMINOUS CONCRETE PAVEMENT.

PERMANENT BITUMINOUS CONCRETE TRENCH DETAIL

SCALE: NTS — C-101, C-103, C-105, C-106, C-107, C-108, C-109, C-111, C-113 — 13



NOTES:
1. SEE SOIL MANAGEMENT PLAN REQUIREMENTS IN THE SPECIFICATIONS.

LOAM AND SEED TRENCH RESTORATION

SCALE: NTS — C-101, C-103, C-105, C-106, C-107, C-108, C-109, C-111, C-113 — 14

SYM	DESCRIPTION	DATE	APPR

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COMMONWEALTH OF MASSACHUSETTS — ERICA M. LOTZ — CIVIL — No. 45192 — REGISTERED PROFESSIONAL ENGINEER — 11/17/15 — SEAL

MNFST A JOINT VENTURE — A/E INFO

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ACTIVITY

SATISFACTORY TO DATE

DES AEH | DRW AEH | CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NEWPORT, RI
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

STANDARD DETAILS – SHEET 2 OF 4

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

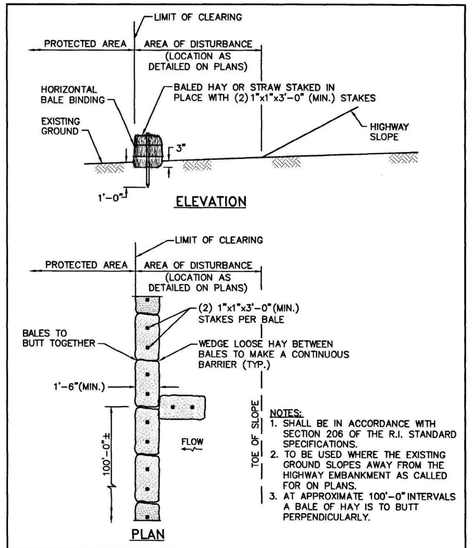
NAVFAC DRAWING NO. 12706491

SHEET 44 OF 46

C-502 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Struc\TP-104D NAVSTA Water Phase3\05 CAD\05 Civil\C-501-503 STANDARD DETAILS.dwg LAYOUT NAME: C-502 PLOTTED: Tuesday, November 17, 2015 - 1:29pm USER: Stockp_R



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

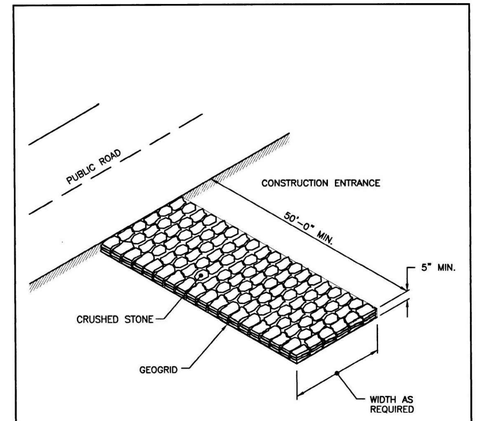
BALED HAY EROSION CHECK

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 9.1.0

BALED HAY EROSION CHECK 15

SCALE: NTS



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

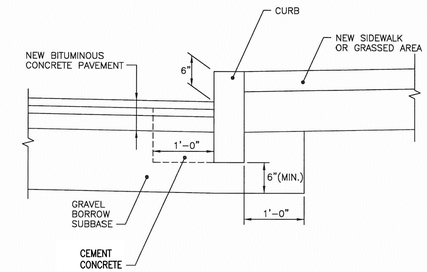
CONSTRUCTION ACCESS

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 9.9.0

CONSTRUCTION ACCESS 16

SCALE: NTS



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 05

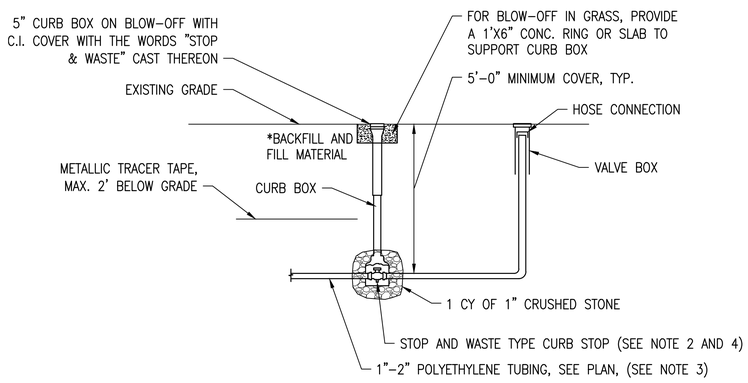
CURB SETTING DETAIL

CHIEF ENGINEER TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.6.0

CURB SETTING DETAIL 17

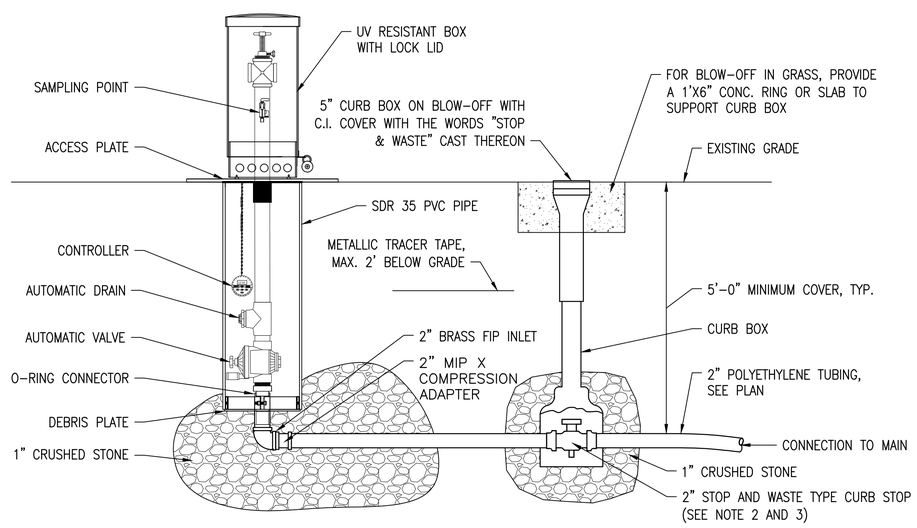
SCALE: NTS



NOTES:
1. SAND BEDDING TO BE PROVIDED ALONG LENGTH OF SERVICE PIPE TO A DEPTH OF 6-INCHES ABOVE AND 6-INCHES BELOW THE SERVICE PIPE.
2. NEW CURB STOPS MUST BE EXERCISED.
3. WATER AND SEWER MUST BE PROVIDED WITH MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION.
4. NEW CURB STOPS USED ON BLOW-OFF LINES SHALL INCLUDE STOP AND WASTE FEATURE.

WATER SERVICE BLOW-OFF 18

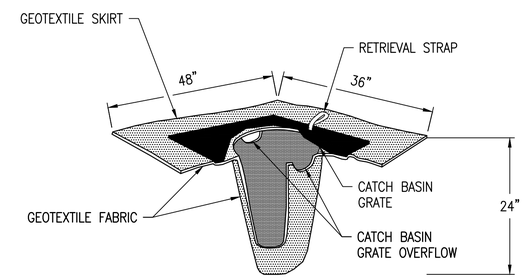
SCALE: NTS C-112



NOTES:
1. SAND BEDDING TO BE PROVIDED ALONG LENGTH OF SERVICE PIPE TO A DEPTH OF 6-INCHES ABOVE AND 6-INCHES BELOW THE SERVICE PIPE.
2. NEW CURB STOP MUST BE EXERCISED.
3. NEW CURB STOP USED ON FLUSHING LINE SHALL INCLUDE STOP AND WASTE FEATURE.

AUTOMATIC FLUSHING DEVICE 19

SCALE: NTS C-101



SILT SACK 20

SCALE: NTS C-102, C-104, C-106, C-107, C-108, C-109, C-110, C-112

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — ERICA M. LOTZ — CIVIL — No. 45192 — REGISTERED PROFESSIONAL ENGINEER — 11/17/15 — SEAL

MNFST A JOINT VENTURE — A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES AEH | DRW AEH | CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT — NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

STANDARD DETAILS – SHEET 3 OF 4

MAXIMO NO.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

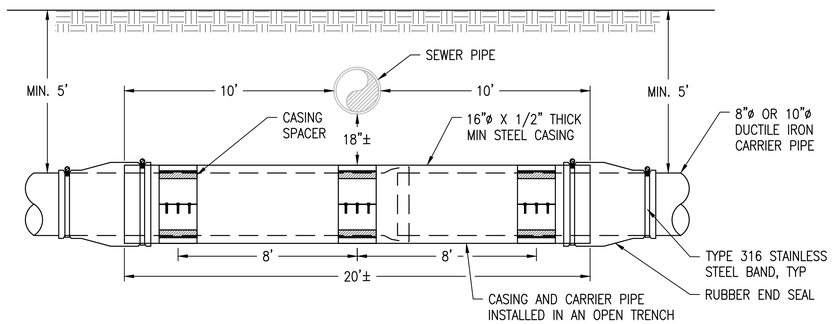
NAVFAC DRAWING NO. 12706492

SHEET 45 OF 46

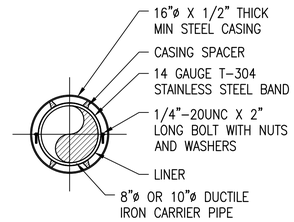
C-503 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-501-503 STANDARD DETAILS.dwg LAYOUT NAME: C-503 PLOTTED: Tuesday, November 17, 2015 - 1:30pm USER: Stockp_R



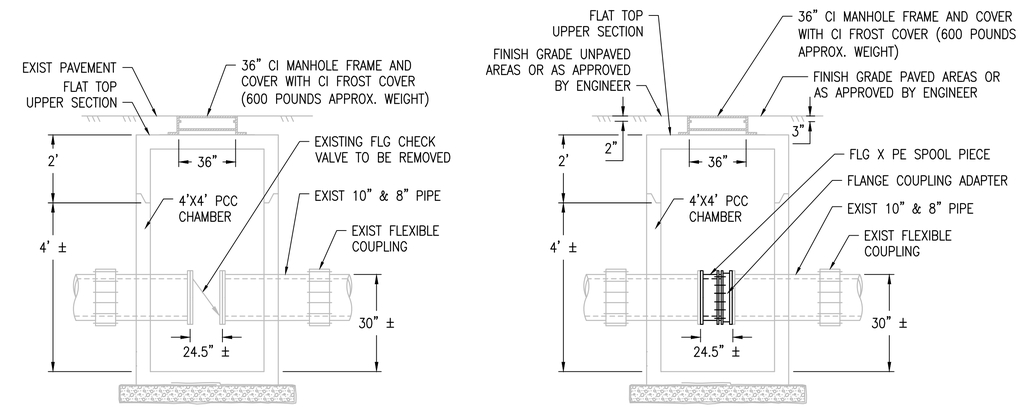
PLAN



SECTION

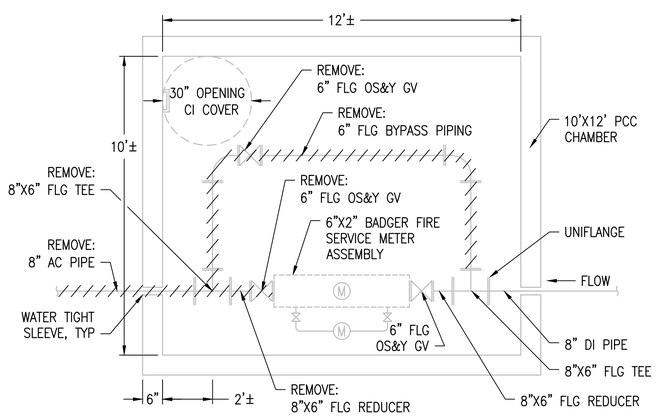
STEEL CASING

SCALE: NTS C-104, C-105, C-106, C-110, C-111 **21**



CHECK VALVE REMOVAL AND SPOOL PIECE INSTALLATION

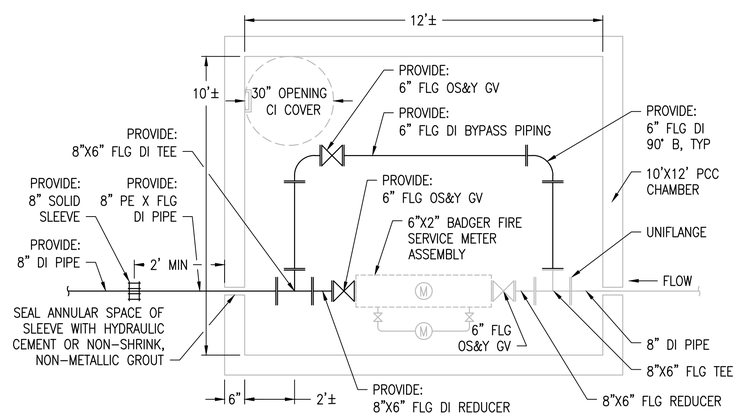
SCALE: NTS C-101, C-102 **22**



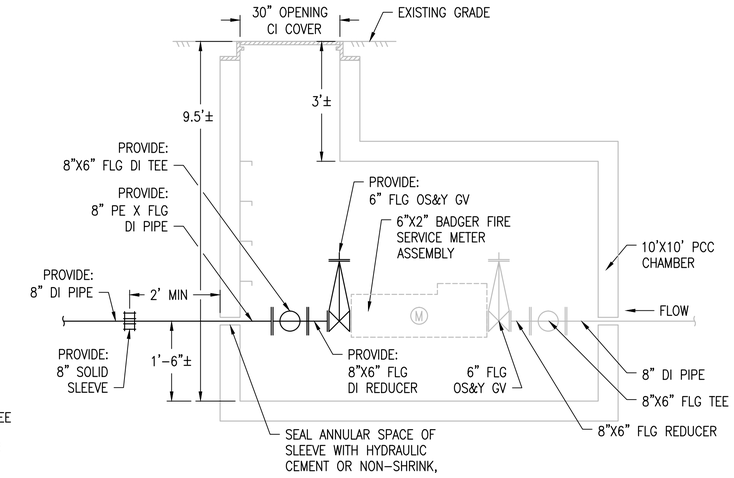
PLAN

EXISTING METER VAULT (OPTION 3)

SCALE: NTS C-112, C-113 **23**



PLAN



SECTION

METER VAULT (OPTION 3)

SCALE: NTS C-112, C-113 **24**

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS ERICA M. LOTZ CIVIL No. 45192 REGISTERED PROFESSIONAL ENGINEER 11/17/15 SEAL

MNFST A JOINT VENTURE A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES AEH DRW AEH CHK EML

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS DEPARTMENT – NEWPORT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NEWPORT, RI

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

POTABLE WATER DISTRIBUTION SYSTEM UPGRADES - PHASE 3

STANDARD DETAILS – SHEET 4 OF 4

MAXIMO No.:

EPROJECT NO.: 1362578

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12706493

SHEET 46 OF 46

C-504 -

DRAWFORM REVISION: 27 APRIL 2015

FILE NAME: P:\Stroe\TP-1040 NAVSTA Water Phase3\05 CAD\05 Civil\C-501-503 STANDARD DETAILS.dwg LAYOUT NAME: C-504 PLOTTED: Tuesday, November 17, 2015 - 1:30pm USER: Stockp_R