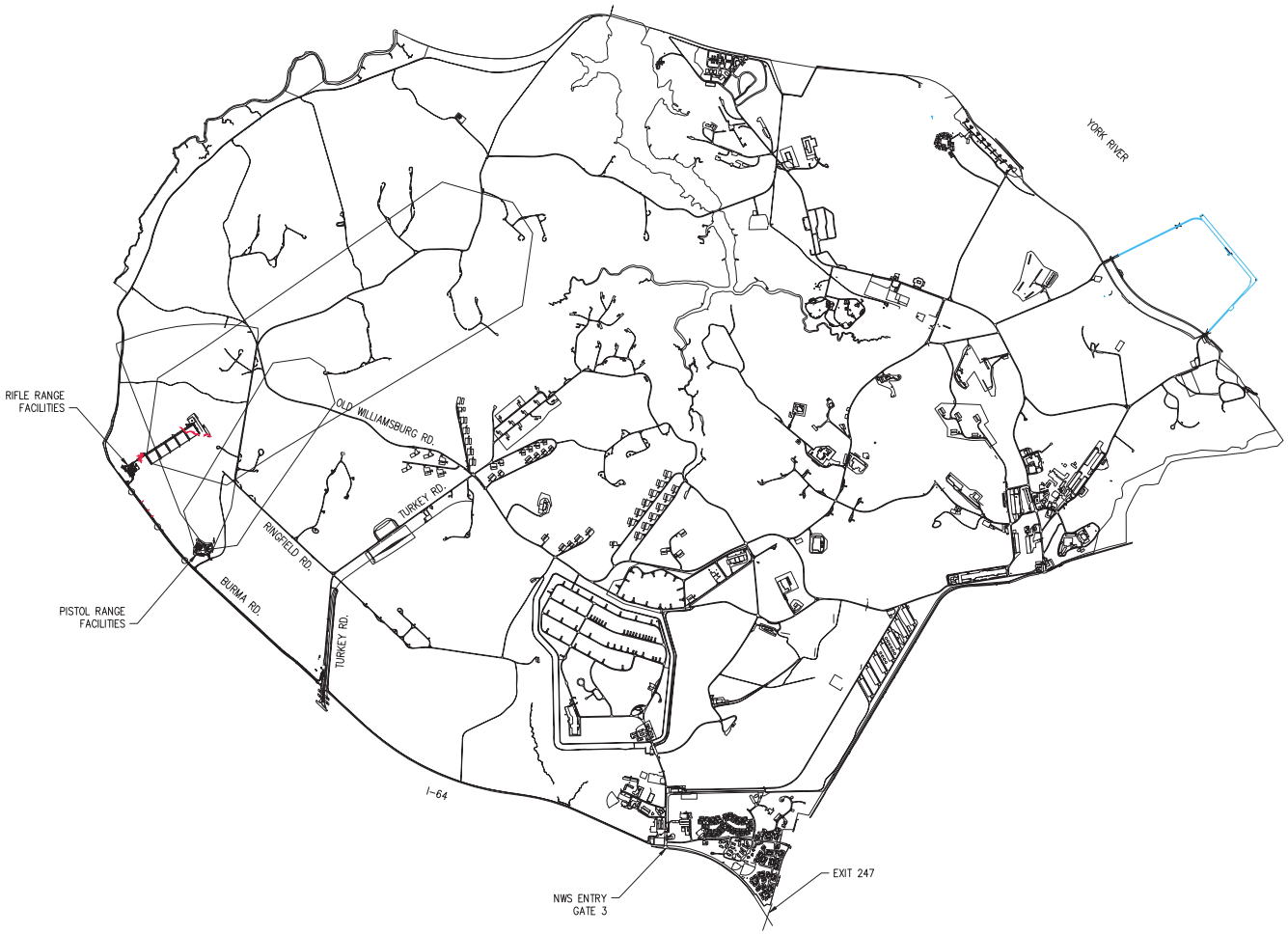


NWS YORKTOWN INSTALLATION MAP

NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

NAVFAC ATLANTIC NORFOLK, VA

NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

INSTALLATION MAP

SCALE: AS NOTED

EPROJECT NO.: 1309001

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

SHEET OF 270

CE-1

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1309001-P461 Yorktown Small Arms Range\CAD\C\CI-P461-1-Base.dwg LAYOUT NAME: EV-NWSYORK PLOTTED: Thursday, October 16, 2014 - 1:59pm USER: jamesa.barkin

PROJECT OVERVIEW

SCALE: 1" = 800'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO	DATE	08/12/14
DES JSL	DRW JSL	CHK BAS
<<PM/DM>>	JMB/JSL	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJG	
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA
NWS YORKTOWN
YORKTOWN, VA

P461 SMALL ARMS RANGES

PROJECT OVERVIEW

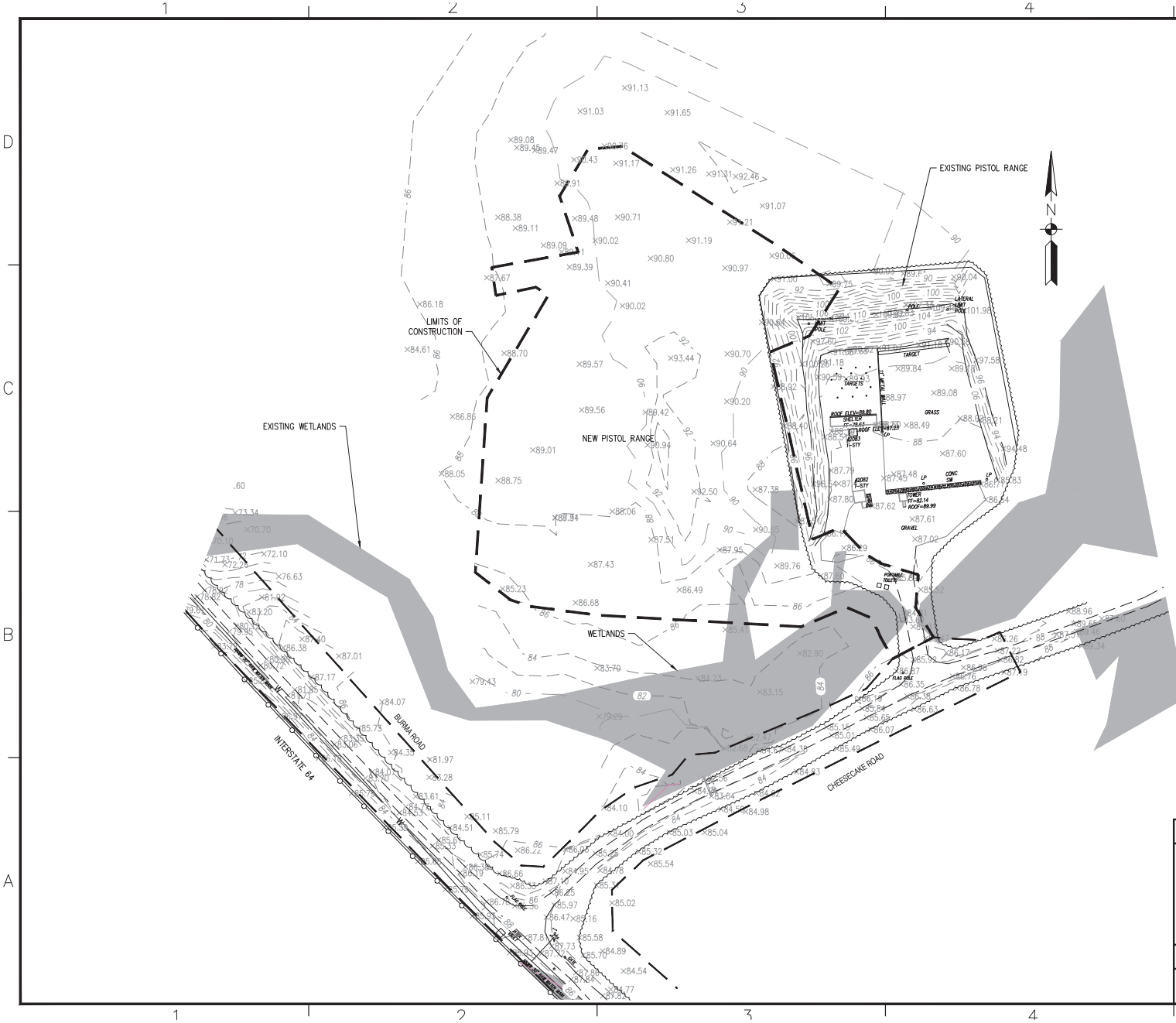
SCALE: AS NOTED
EPROJECT NO.: 1309901
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET OF 270

CE-2

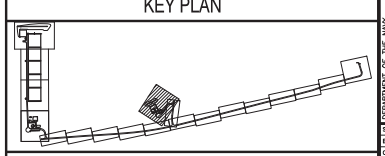
DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1309901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-V-Base.dwg LAYOUT NAME: EV-OVERVIEW PLOTTED: Thursday, October 16, 2014 - 2:01pm USER: james.s.larkin



KEY PLAN



GRAPHIC SCALE

0' 50' 100' 150' 200' 250'

1"=100'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO	DATE	08/12/14
DES JSL	DRW JSL	CHK BAS
<<PM/DM>>	JMB/JSL	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJG	
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NWS YORKTOWN
NORFOLK, VA
YORKTOWN, VA

P461 SMALL ARMS RANGES

EXISTING CONDITIONS, PISTOL RANGE

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

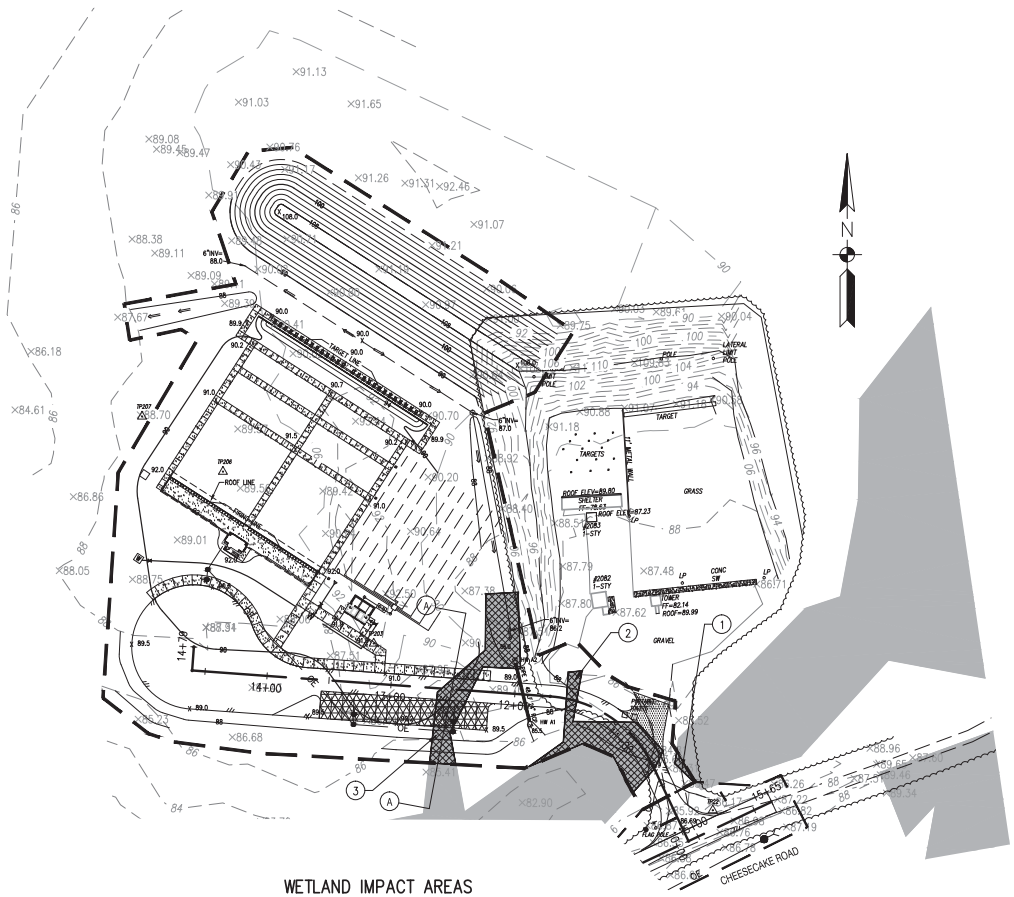
SHEET 18 OF 270

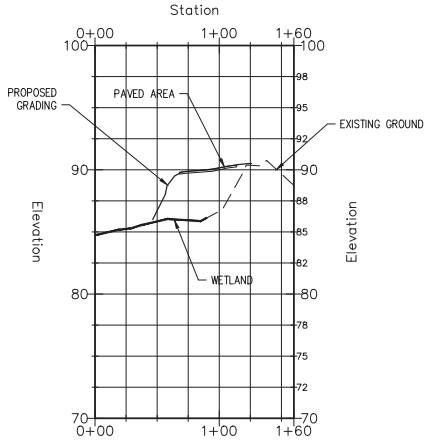
CE-3

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-V-Base.dwg LAYOUT NAME: EV-PISTOL-EX PLOTTED: Thursday, October 16, 2014 - 2:31pm USER: james.s.larkin



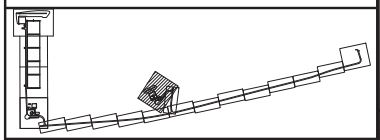


SECTION A-A

WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
1	102	WOODED	CONVERSION
2	2,786	WOODED	FILL
3	3,235	WOODED	FILL

KEY PLAN



GRAPHIC SCALE

0' 50' 100' 150' 200' 250'

1"=100'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

NAVFAC ATLANTIC NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VA

NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

PISTOL RANGE, CONSTRUCTION PLAN

SCALE: 1" = 200'

EPROJECT NO.: 1309901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

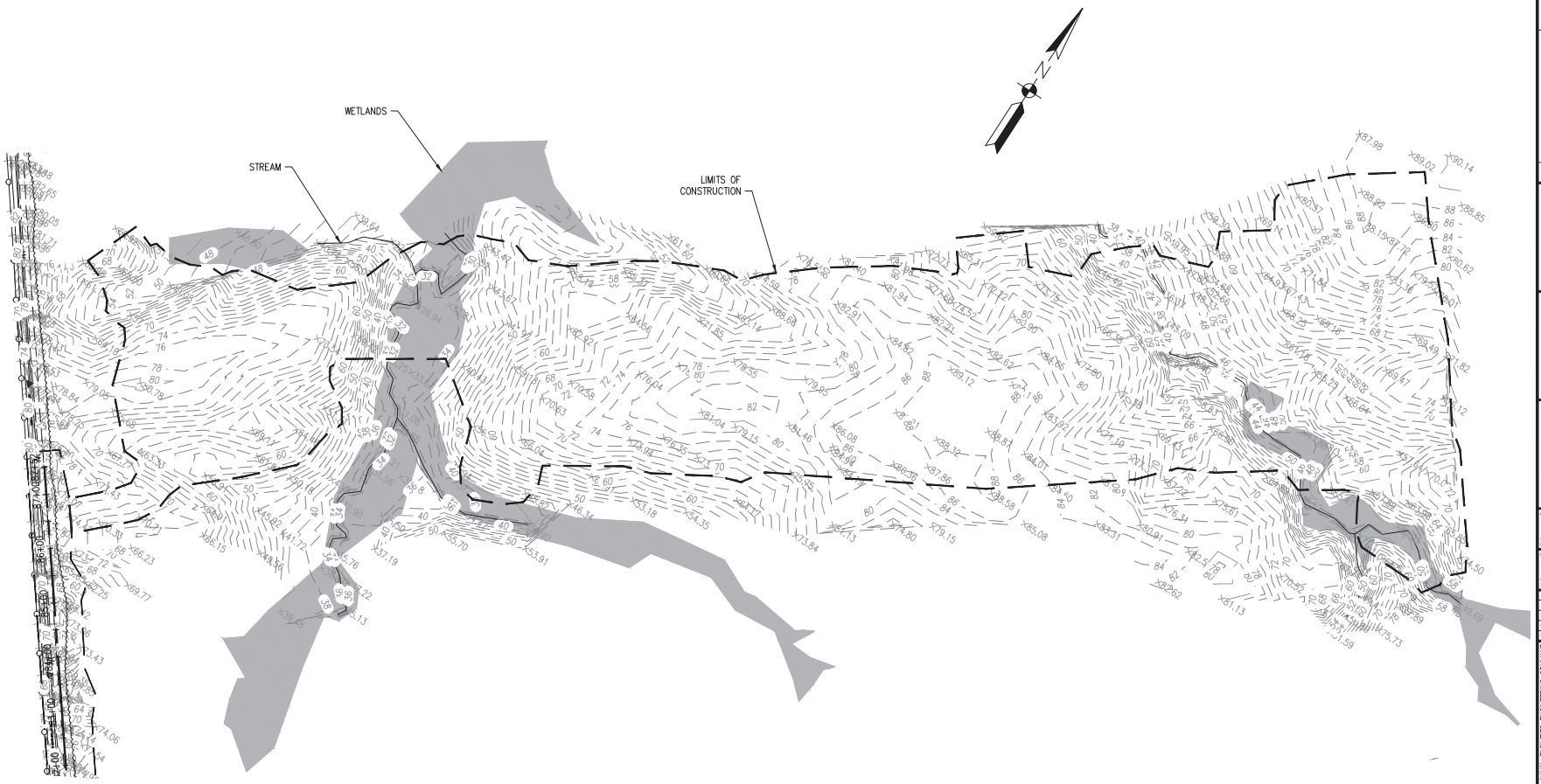
SHEET OF 270

CE-4

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1309901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-V-Base.dwg LAYOUT NAME: EV-PISTOL PLOTTED: Wednesday, December 03, 2014 - 9:01am USER: james.s.larkin



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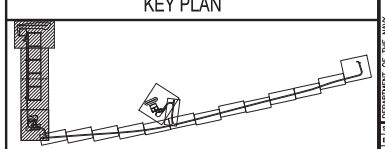


GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO	DATE	08/12/14
DES JSL	DRW JSL	CHK BAS
<<PM/DM>>	JMB/JSL	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJG	
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA
NWS YORKTOWN
YORKTOWN, VA

P461 SMALL ARMS RANGES

EXISTING CONDITIONS, RIFLE RANGE

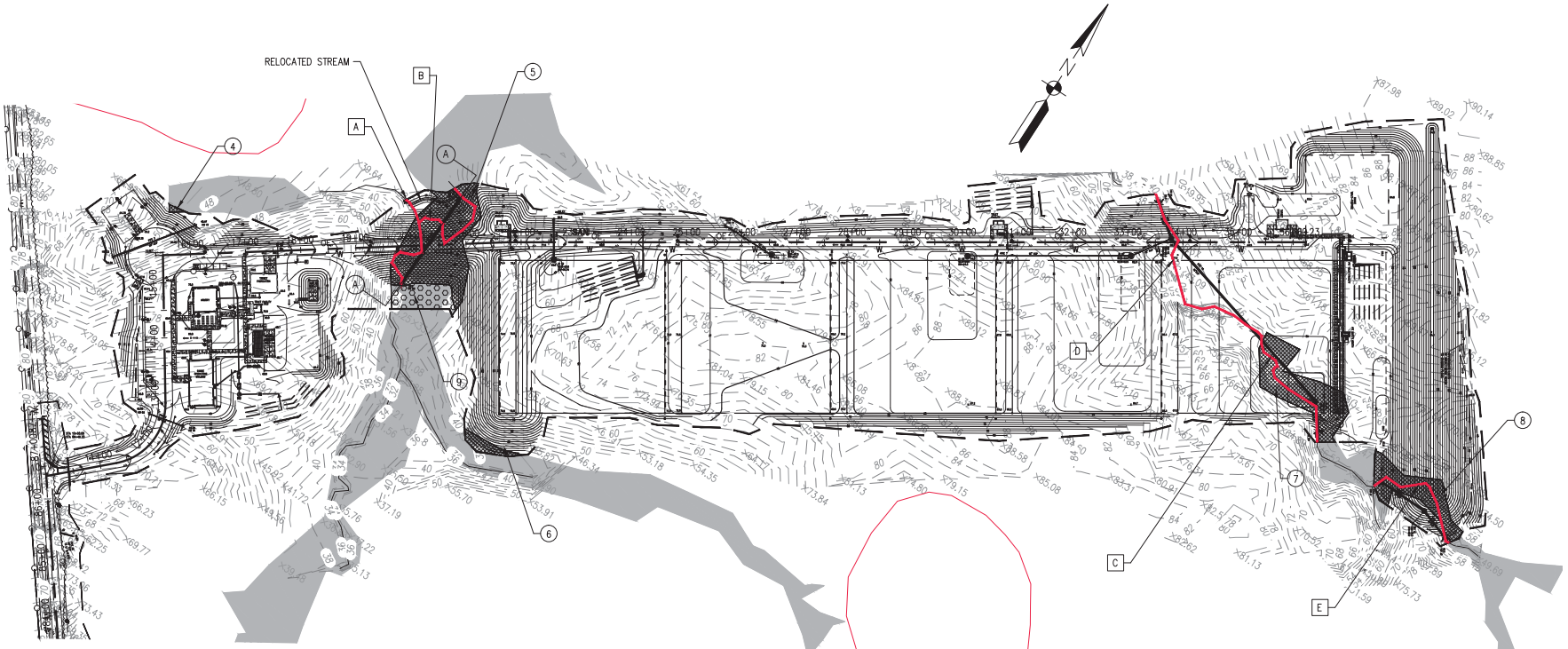
SCALE: 1" = 200'
EPROJECT NO.: 1300901
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET 18 OF 270

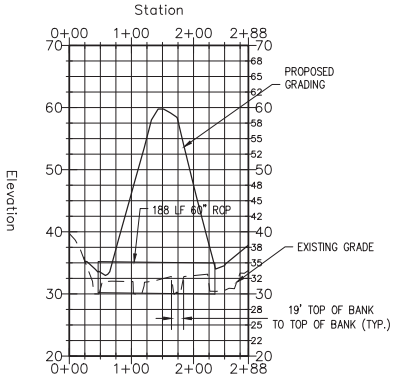
CE-5

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\CU-P461-V-Base.dwg LAYOUT NAME: EV-RIFLE-EX PLOTTED: Thursday, October 16, 2014 - 2:34pm USER: james.s.larkin





SECTION A-A

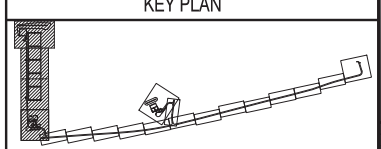
WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
4	209	WOODED	FILL
5	20,773	WOODED	FILL
6	1,700	WOODED	FILL
7	13,085	WOODED	FILL
8	8,325	WOODED	FILL
9	5,042	WOODED	CONVERSION

STREAM IMPACT AREAS

	LIN.FT.	IMPACT
A	47	FILL
B	394	FILL
C	234	FILL
D	386	FILL
E	223	FILL

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NWS YORKTOWN
NORFOLK, VA
YORKTOWN, VA

P461 SMALL ARMS RANGES

RIFLE RANGE, CONSTRUCTION PLAN

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

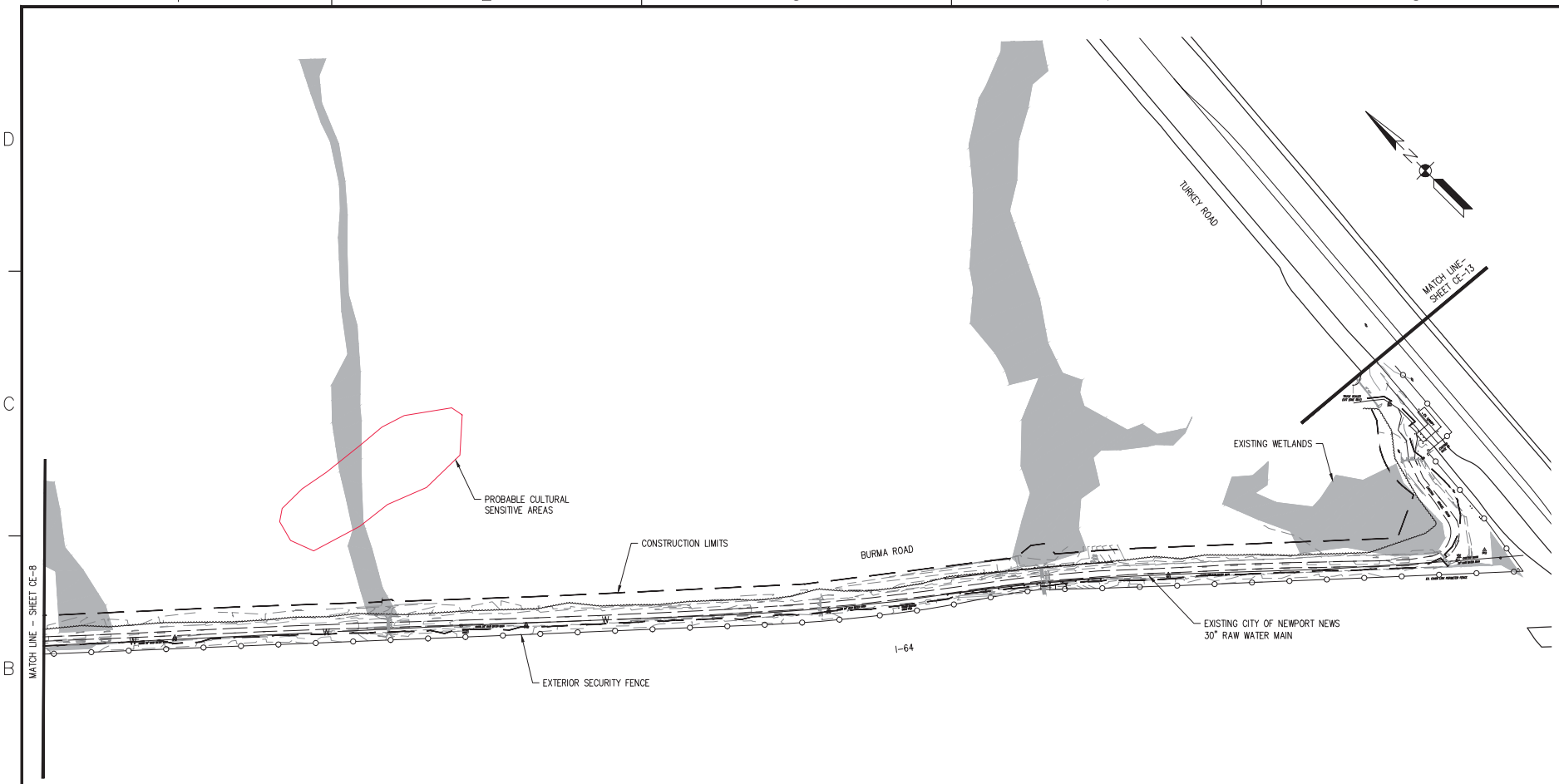
SHEET 18 OF 270

CE-6

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-V-Base.dwg LAYOUT NAME: EV-RIFLE-GRADE PLOTTED: Thursday, December 11, 2014 - 2:40pm USER: james.s.larkin



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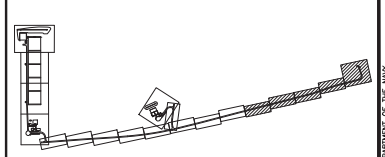


GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC NORFOLK, VA
NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD EXISTING CONDITIONS 1 OF 3

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

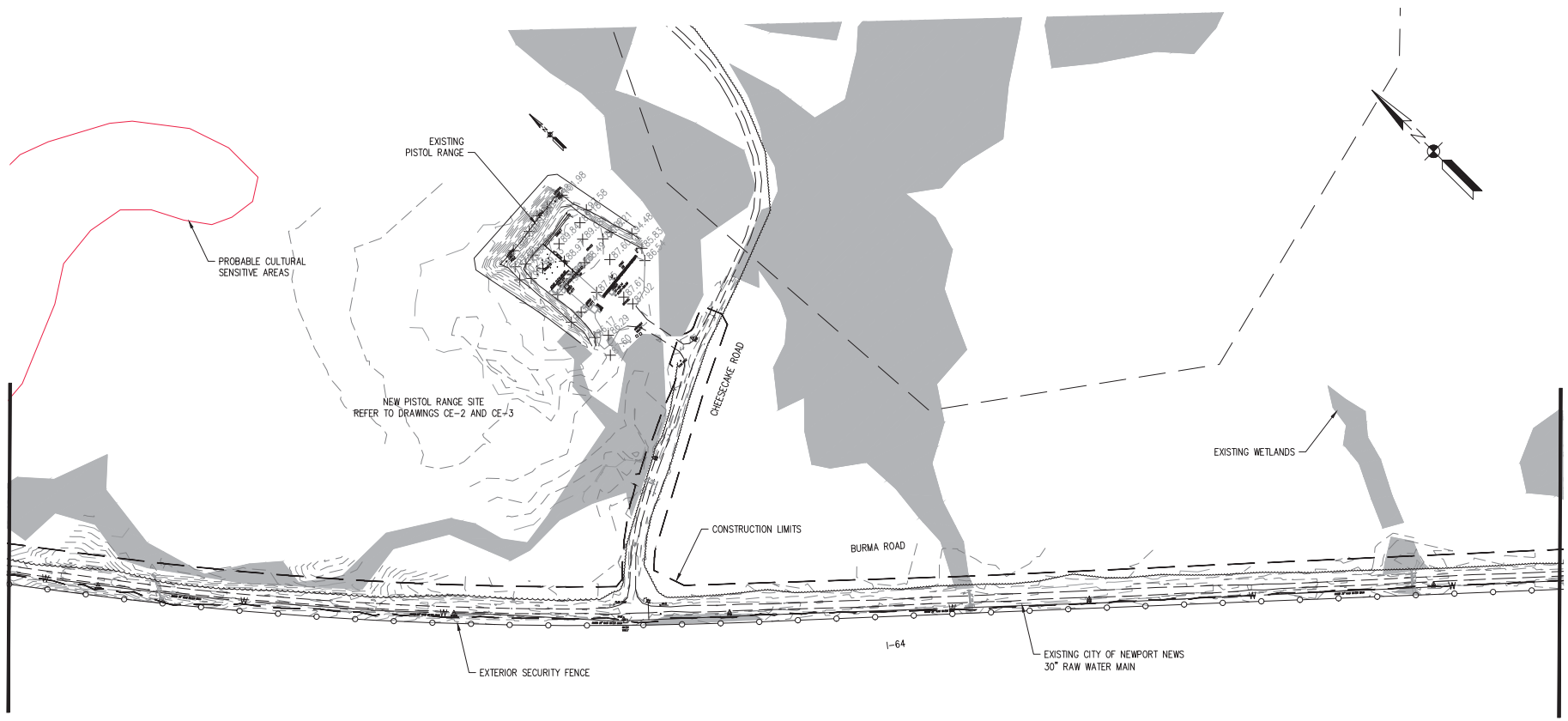
SHEET OF 270

CE-7

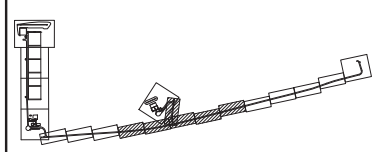
DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\CD-P461-V-Base-Road.dwg LAYOUT NAME: CE-7 EXIST1 PLOTTED: Thursday, October 16, 2014 - 3:16pm USER: james.s.larkin



KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC NORFOLK, VA
NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD EXISTING CONDITIONS 2 OF 3

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

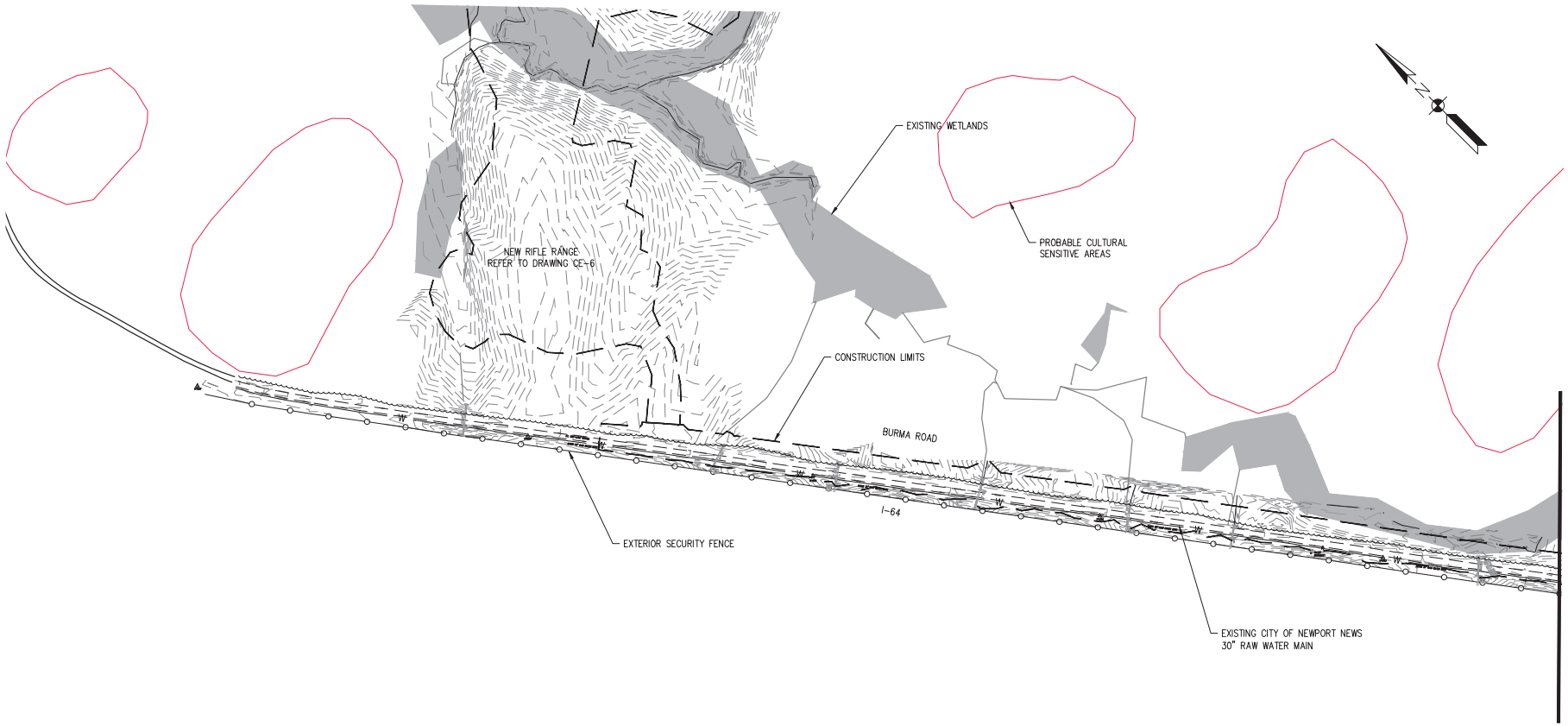
SHEET OF 270

CE-8

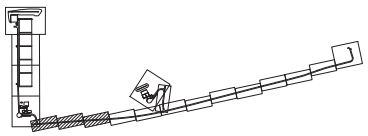
DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\CU-P461-V-Base-Road.dwg LAYOUT NAME: CE-8 EXIST2 PLOTTED: Thursday, October 16, 2014 - 3:18pm USER: james.s.larkin



KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL | DRW JSL | CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC NORFOLK, VA
NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD EXISTING CONDITIONS 3 OF 3

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

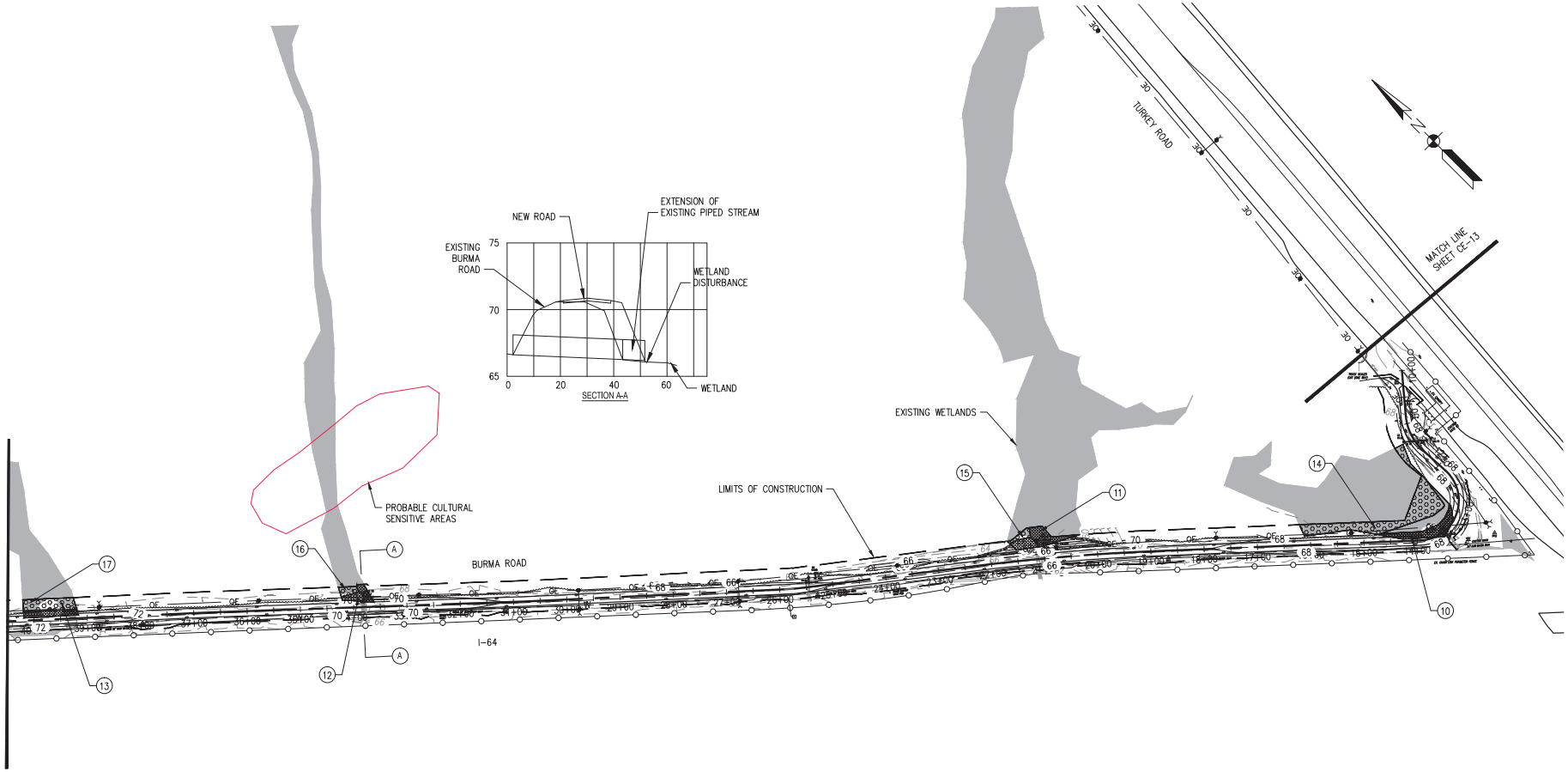
SHEET OF 270

CE-9

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

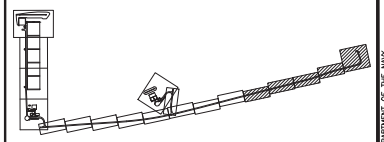
FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\CU-P461-V-Base-Road.dwg LAYOUT NAME: CE-9 EXIST3 PLOTTED: Thursday, October 16, 2014 - 3:20pm USER: james.s.larkin



WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
10	2,196	HERBACEOUS	FILL
11	2,248	WOODED	FILL
12	1,005	WOODED	FILL
13	1,149	WOODED	FILL
14	7,481	WOODED	CONVERSION
15	454	WOODED	CONVERSION
16	494	WOODED	CONVERSION
17	2,159	WOODED	CONVERSION

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA
NAVFAC ATLANTIC
NWS YORKTOWN
YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD WIDENING PLAN 1 OF 3

USACE-NLW
RCVD 23 FEB 2015

SCALE: 1" = 200'
EPROJECT NO.: 1309901
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET CE-10 OF 270

DRAWFORM REVISION: 10 MARCH 2009

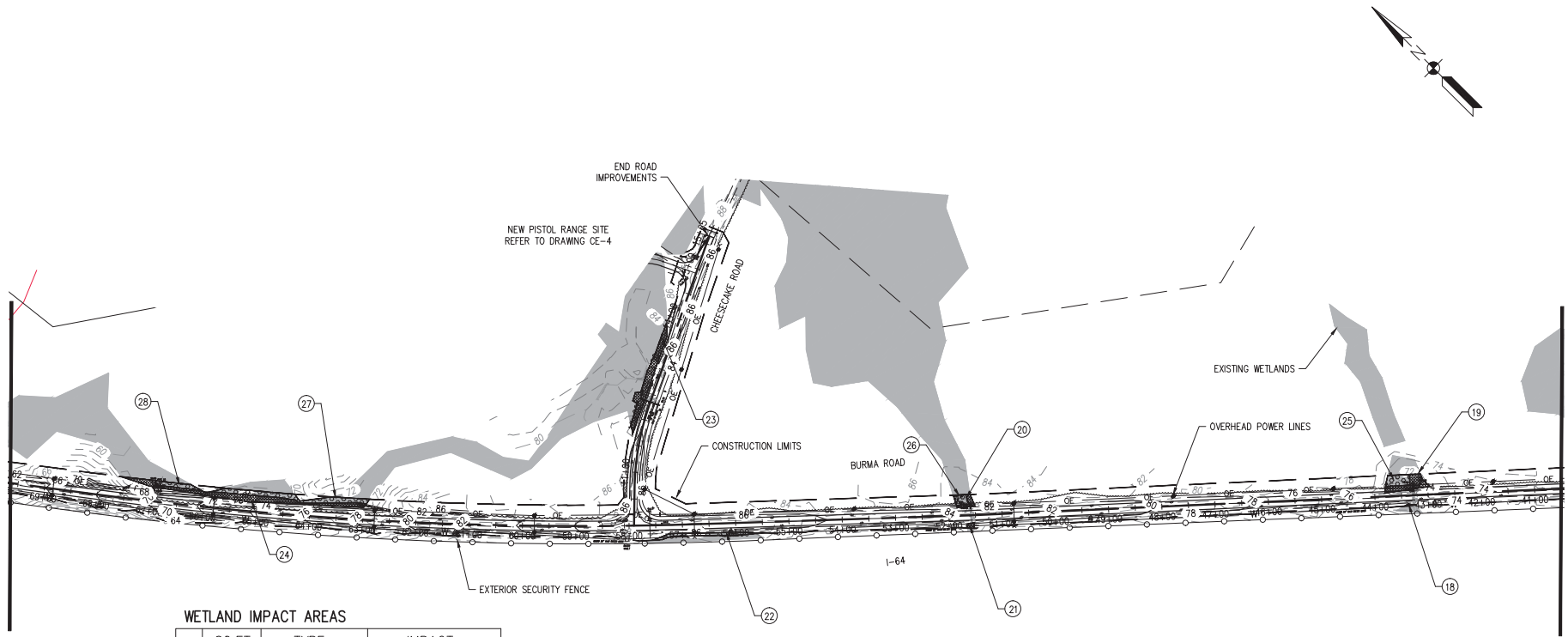
DATE | DESCRIPTION | SYM | APPR

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
LCDR W. PURCELL, USN
SATISFACTORY TO DATE 08/12/14
DES JSL DRW JSL CHK BAS
<<PM/Dist>> JMB/JSL
BRANCH MANAGER
CHIEF ENG/ARCH EJG
FIRE PROTECTION

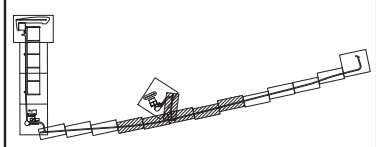
FILE NAME: Z:\Projects\2014-1309901-P461 Yorktown Small Arms Range\CAD\C\CI-P461-1-Base-Roadway LAYOUT NAME: CE-10 PAN PLOTTED: Wednesday, December 03, 2014 - 8:03am USER: jimmie.sutwin



WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
18	30	WOODED	FILL
19	1,205	WOODED	FILL
20	285	WOODED	FILL
21	123	WOODED	FILL
22	938	EMERGENT	FILL
23	2,287	WOODED	FILL
24	3,414	WOODED	FILL
25	873	WOODED	CONVERSION
26	451	WOODED	CONVERSION
27	2,434	WOODED	CONVERSION
28	640	WOODED	CONVERSION

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

NAVFAC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NWS YORKTOWN
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VA
YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD WIDENING PLAN 2 OF 3

SCALE: 1" = 200'
EPROJECT NO.: 1300901
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET OF 270

CE-11

DRAWFORM REVISION 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

SYM DESCRIPTION DATE APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

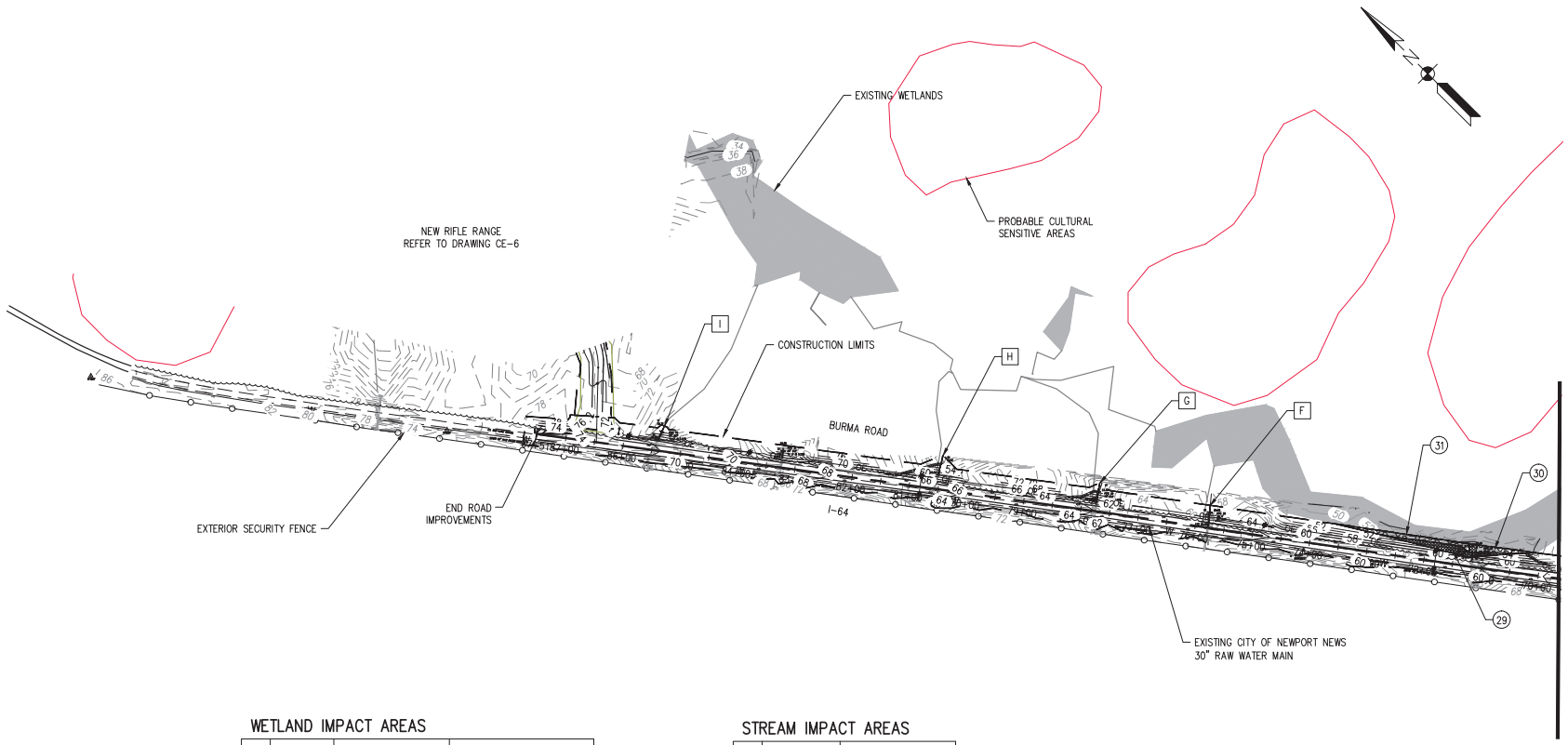
DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION



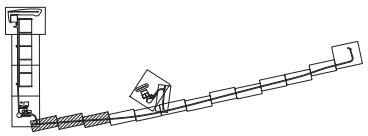
WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
29	1787	WOODED	FILL
30	753	WOODED	CONVERSION
31	1427	WOODED	CONVERSION

STREAM IMPACT AREAS

	LIN.FT.	IMPACT
F	36	FILL
G	35	FILL
H	36	FILL
I	25	FILL

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC NORFOLK, VA
NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

BURMA ROAD WIDENING PLAN 3 OF 3

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

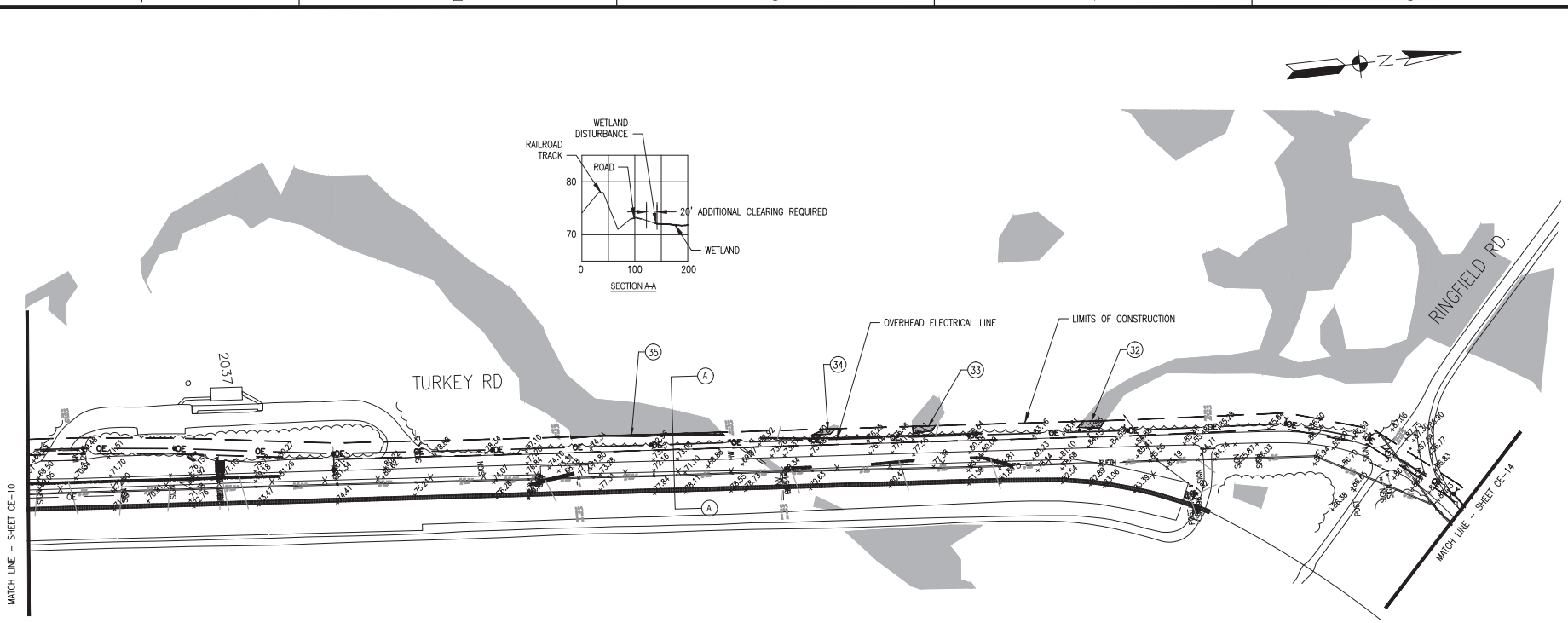
SHEET OF 270

CE-12

DRAWFORM REVISION 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

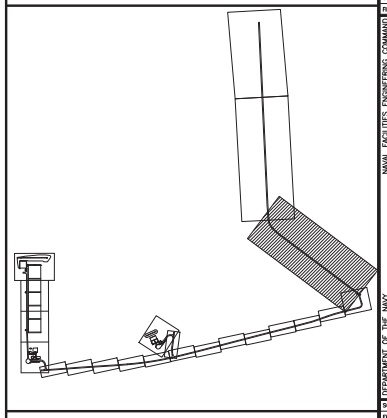
FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-V-Base-Road.dwg LAYOUT NAME: CE-12 FN3 PLOTTED: Thursday, December 11, 2014 - 2:39pm USER: james.a.larkin



WETLAND IMPACT AREAS

	SQ.FT.	TYPE	IMPACT
32	527	WOODED	CONVERSION
33	435	WOODED	CONVERSION
34	264	WOODED	CONVERSION
35	683	WOODED	CONVERSION

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

NAVFAC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC ATLANTIC
NWS YORKTOWN
NORFOLK, VA
YORKTOWN, VA

P461 SMALL ARMS RANGES

TURKEY ROAD EXISTING CONDITIONS 1 OF 3

SCALE: 1" = 200'
EPROJECT NO.: 1300901
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET OF 270

CE-13

DRAWFORM REVISION: 10 MARCH 2009

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
LCDR W. PURCELL, USN
SATISFACTORY TO DATE 08/12/14
DES JSL DRW JSL CHK BAS
<<PM/DM>> JMB/JSL
BRANCH MANAGER
CHIEF ENG/ARCH EJG
FIRE PROTECTION

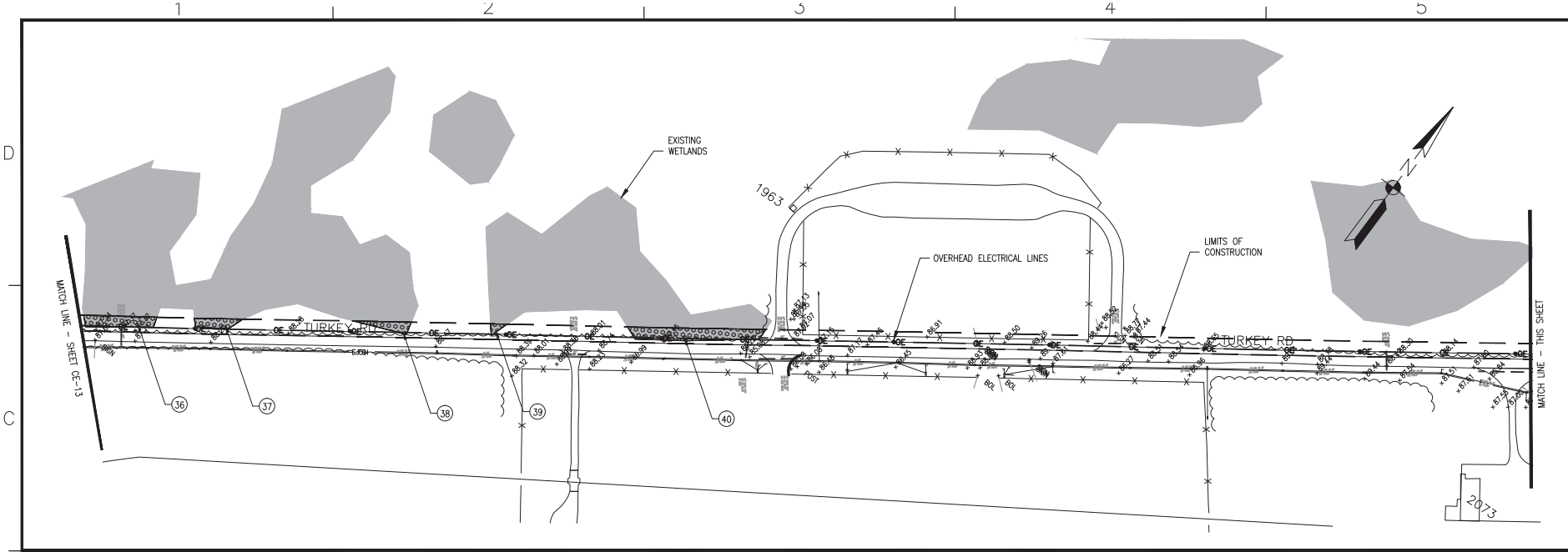
SYM DESCRIPTION DATE APPR

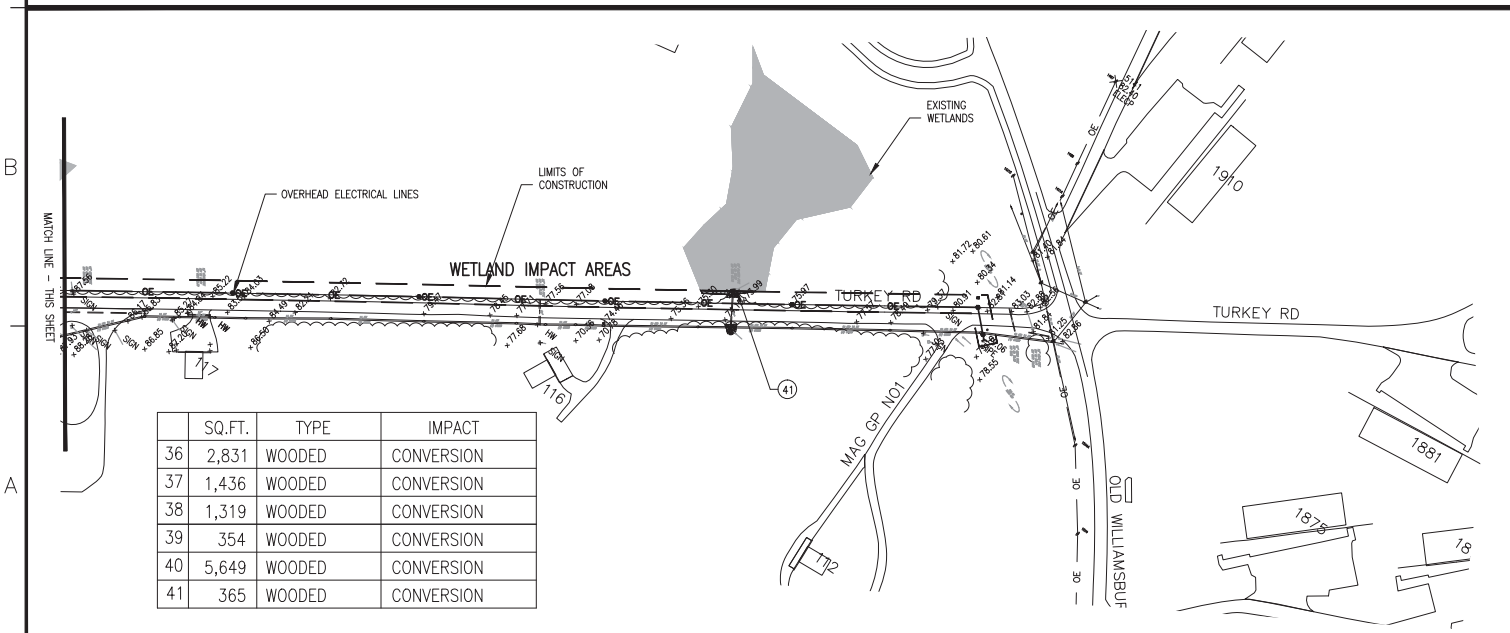
A/E INFO

SEAL

USACE-NLW
RCVD 23 FEB 2015

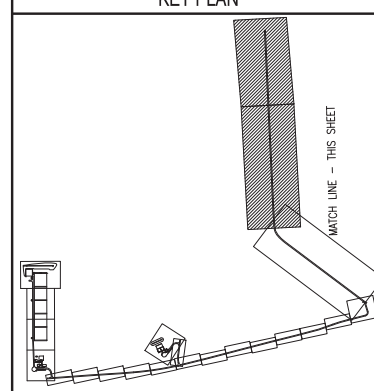
FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-Base-Road.dwg LAYOUT NAME: CE-13 PLOTTED: Monday, December 08, 2014 - 10:07am USER: jamesa.lankin





	SQ.FT.	TYPE	IMPACT
36	2,831	WOODED	CONVERSION
37	1,436	WOODED	CONVERSION
38	1,319	WOODED	CONVERSION
39	354	WOODED	CONVERSION
40	5,649	WOODED	CONVERSION
41	365	WOODED	CONVERSION

KEY PLAN



GRAPHIC SCALE

0' 100' 200' 300' 400' 500'

1"=200'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LCDR W. PURCELL, USN

SATISFACTORY TO DATE 08/12/14

DES JSL DRW JSL CHK BAS

<<PM/DM>> JMB/JSL

BRANCH MANAGER

CHIEF ENG/ARCH EJG

FIRE PROTECTION

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

NAVFAC ATLANTIC NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VA

NWS YORKTOWN YORKTOWN, VA

P461 SMALL ARMS RANGES

TURKEY ROAD OVERHEAD ELECTRICAL LINES, 2 OF 2

SCALE: 1" = 200'

EPROJECT NO.: 1300901

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.

SHEET OF 270

CE-14

DRAWFORM REVISION: 10 MARCH 2009

USACE-NLW
RCVD 23 FEB 2015

FILE NAME: Z:\Projects\2014-1300901-P461 Yorktown Small Arms Range\CAD\C\EV-P461-Base-Road.dwg LAYOUT NAME: CE-14 PLOTTED: Monday, December 08, 2014 - 10:09am USER: jamess.lorkin