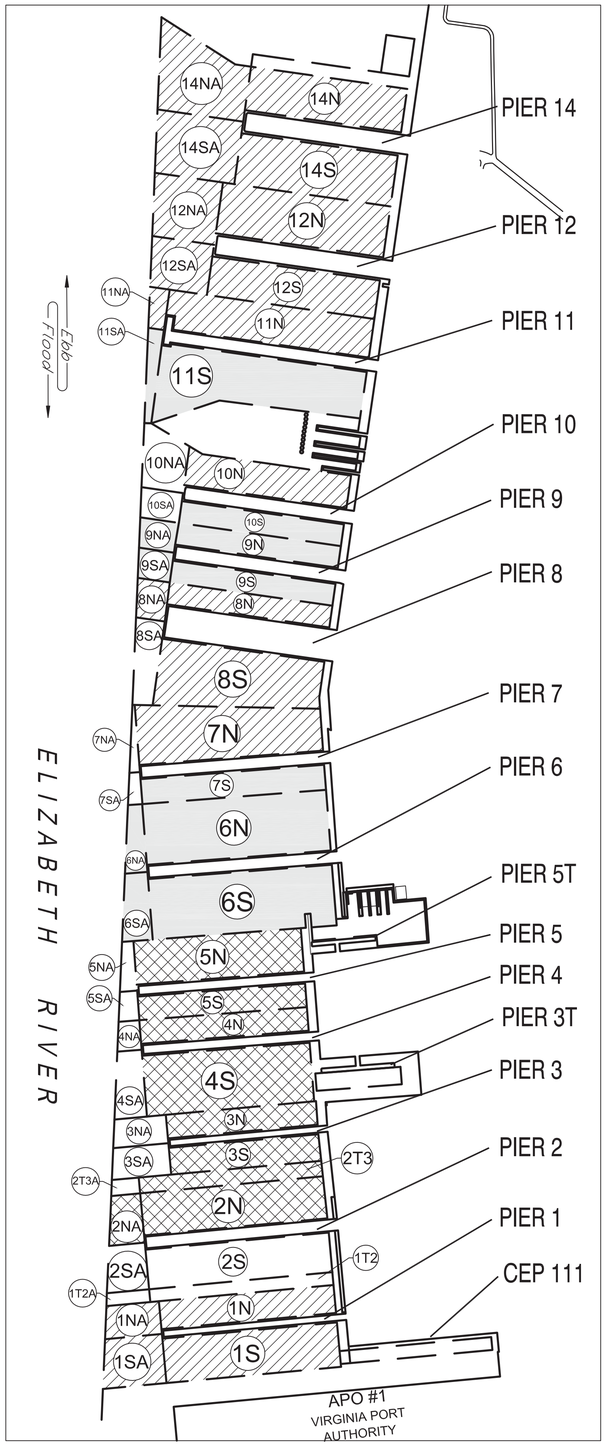
FY2015 & 2016 MAINTENANCE DREDGING
NAVAL STATION NORFOLK, NORFOLK, VIRGINIA



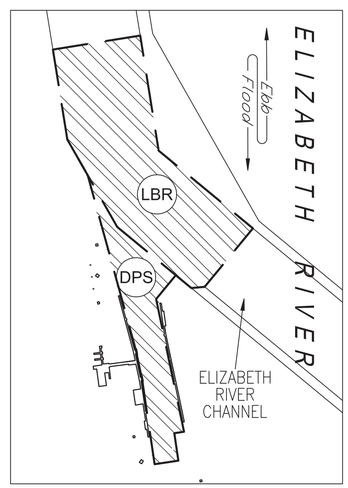
KEY PLAN: INSET 'A'

1" = 600'

N

DREDGE AREA LABELS

- FY2015 BASE BID
- BID OPTION #1
- BID OPTION #2
- BID OPTION #4, CLIN 0005b
- BID OPTION #4, CLIN 0005c
- NOT IN CONTRACT
- DREDGE AREA ID



INSET 'B' - DEPERMING STATION

1" = 600'

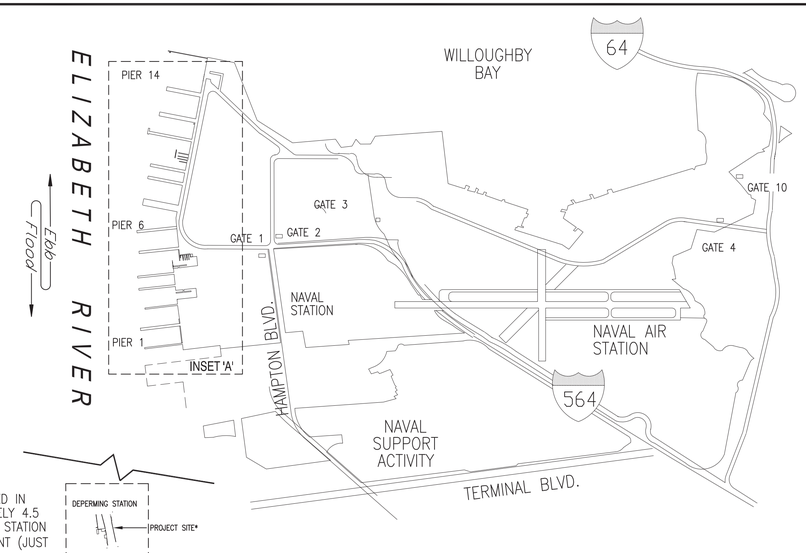
N

LIST OF SHEETS

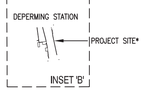
	SHEET NO.	NAVFAC #	SHEET TITLE		SHEET NO.	NAVFAC #	SHEET TITLE
1	V-001	12683430	TITLE SHEET	8	V-106	12683437	PIERS 8 & 9 SOUTH
2	V-002	12683431	DETAIL SHEET	9	V-107	12683438	PIERS 9 NORTH & 10
3	V-101	12683432	PIER 1	10	V-108	12683439	PIER 11
4	V-102	12683433	PIER 2 & TRANSITION AREAS	11	V-109	12683440	PIER 12 & HYDROID NET
5	V-103	12683434	PIERS 3 & 4	12	V-110	12683441	PIER 14 & HYDROID NET
6	V-104	12683435	PIERS 5 & 6 SOUTH	13	V-111	12683442	DEPERMING STATION
7	V-105	12683436	PIERS 6 NORTH & 7	14	V-112	12683443	LAMBERT BEND REACH

HYDROGRAPHIC NOTES

1. VERTICAL DATUM - SOUNDINGS ARE IN FEET AND TENTHS AND ARE REFERRED TO THE NOAA MEAN LOWER LOW WATER DATUM (MLLW).
2. THE HYDROGRAPHIC SURVEY WAS CONDUCTED USING CLASS 1 HYDROGRAPHIC SURVEY METHODS & ACCURACIES OUTLINED IN THE CORPS OF ENGINEERS' HYDROGRAPHIC SURVEYING MANUAL (EM 1110-2-1003).
3. ALL BATHYMETRY WAS RECORDED USING A RESON 7101/7125 MULTI-BEAM SONAR SYSTEM(S) WITH HORIZONTAL POSTIONS OBTAINED VIA APPLANIX POS/MV GPS W/MRU.
4. HORIZONTAL DATUM IS BASED ON THE VIRGINIA SOUTH (LAMBERT) STATE PLANE COORDINATE SYSTEM, ZONE 4502, U.S. SURVEY FEET (NAD 1983).
5. SOUNDING DATA FOR DISPLAY HAS BEEN PROCESSED USING HYPACK/HYSWEEP SOFTWARE AS FOLLOWS: CELL SIZE: 20' X 20', SOUNDING POSITION: CENTER OF CELL, CELL STATISTICS: AVERAGE DEPTH.
6. SOUNDING DATA FOR VOLUME CALCULATIONS HAS BEEN PROCESSED USING HYPACK/HYSWEEP SOFTWARE AS FOLLOWS: CELL SIZE: 5' X 5'; SOUNDING POSITION: CENTER OF CELL, CELL STATISTICS: AVERAGE DEPTH.
7. ALL DREDGING WORK, EXCEPT FOR DEPERMING STATION SLIP (DPS), SHALL BE DREDGED USING HYDRAULIC CUTTER HEAD DREDGE. DEPERMING SLIP (DPS) SHALL BE DREDGED USING HYDRAULIC DREDGE WITHOUT USING A CUTTER HEAD. WORK WITHIN THE LAMBERT BEND REACH (LBR) MAY BE PERFORMED USING A CUTTER HEAD.



NOTE:
THE DEPERMING STATION IS LOCATED IN THE ELIZABETH RIVER, APPROXIMATELY 4.5 MILES SOUTH OF PIER 1 AT NAVAL STATION NORFOLK, WEST OF LAMBERT'S POINT (JUST SOUTH OF CRANEY ISLAND).



LOCATION PLAN

NOT TO SCALE

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

APPROVED BY: James S. Georgo, P.E. — Digitally signed by GEORGO.JAMES.S.1392763089 CN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USN, cn=GEORGO.JAMES.S.1392763089 Date: 2014.12.05 16:59:17 -05'00'

CI-HYDRO BRANCH MGR.

AE LOGO

APPROVED

FOR COMMANDER NAVFAC — DATE

APPROVED

CDR MATT ANDERSON
ACTIVITY – SATISFACTORY TO — DATE

PROJECT MGR — SEAL

DES DSW | DRW DSW | CHK JSG

FIRE PROTECTION N/A

BRANCH MANAGER J. S. GEORGO, PE

CHIEF ENG/ARCH JOE FORMATO, PE

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
CAPITAL IMPROVEMENTS CORE
NAVAL FACILITIES ENGINEERING COMMAND – MID ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NORFOLK NAVAL STATION
NORFOLK, VA
FY15 & FY16 MAINTENANCE DREDGING
NAVAL STATION NORFOLK
TITLE SHEET

CODE ID. NO. 80091 | SIZE D

SCALE: AS NOTED

MAXIMO NO.

JOB ORDER NO.

WORK ORDER NO. 1358285

CONSTR. CONTR. NO. N/A

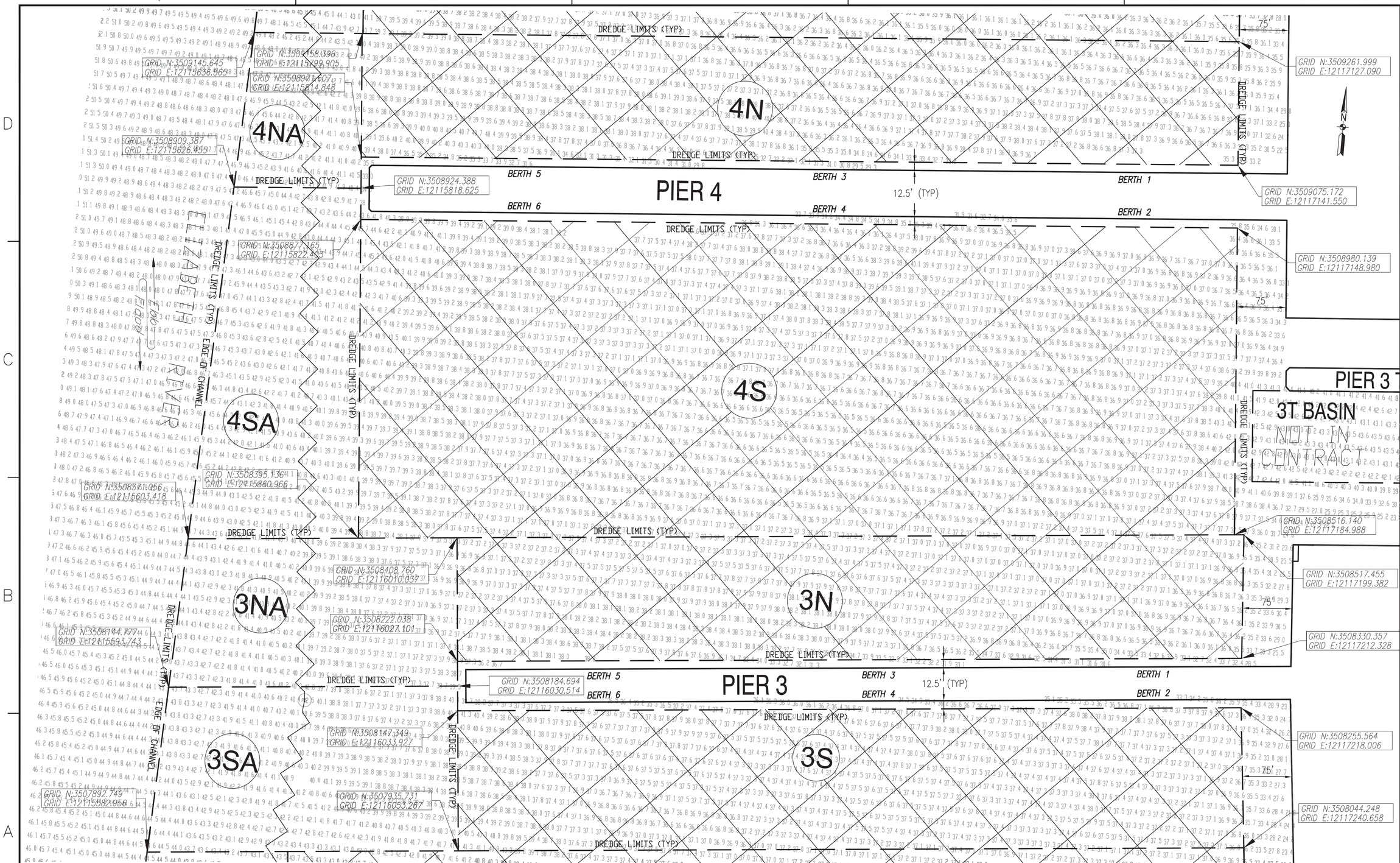
NAVFAC DRAWING NO. 12683430

SHEET 1 OF 14

V-001

DRAWFORM REVISION: 2 FEB 2011

FILE NAME: C:\Users\done.wray\Documents\Hydro\NSN_Naval Station Norfolk\NSN FY15 & FY16 Maint Dredge\drawings\NSN FY15 & FY16 Maint Dredge.dwg LAYOUT NAME: TITLE PLOTTED: Thursday, December 04, 2014 – 10:14am USER: done.wray



NOTES:

1. SOUNDINGS SHOWN ON THIS SHEET REFER TO NOAA MEAN LOWER LOW WATER DATUM (MLLW).
2. SOUNDINGS ARE FROM HYDROGRAPHIC SURVEYS CONDUCTED IN JULY, 2014

BID OPTION #2

NOT IN CONTRACT

DREDGE AREA ID

GRAPHIC SCALE

1" = 70'-0" 0 35' 70' 140'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

APPROVED BY 12/05/2014
James S. George, P.E.
O-HYDRO BRANCH MGR.

AE LOGO

APPROVED
FOR COMMANDER NAVFAC DATE

APPROVED
CDR MATT ANDERSON
ACTIVITY - SATISFACTORY TO DATE

PROJECT MGR SEAL

DES DSW DRW DSW CHK JSG
FIRE PROTECTION N/A
BRANCH MANAGER J. S. GEORGO, PE
CHIEF ENG/ARCH JOE FORMATO, PE

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
NAVAL STATION ~ NORFOLK, VIRGINIA
NORFOLK, VA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAPITAL IMPROVEMENTS CORE
NORFOLK NAVAL STATION

FY15 & FY16 MAINTENANCE DREDGING
NAVAL STATION NORFOLK

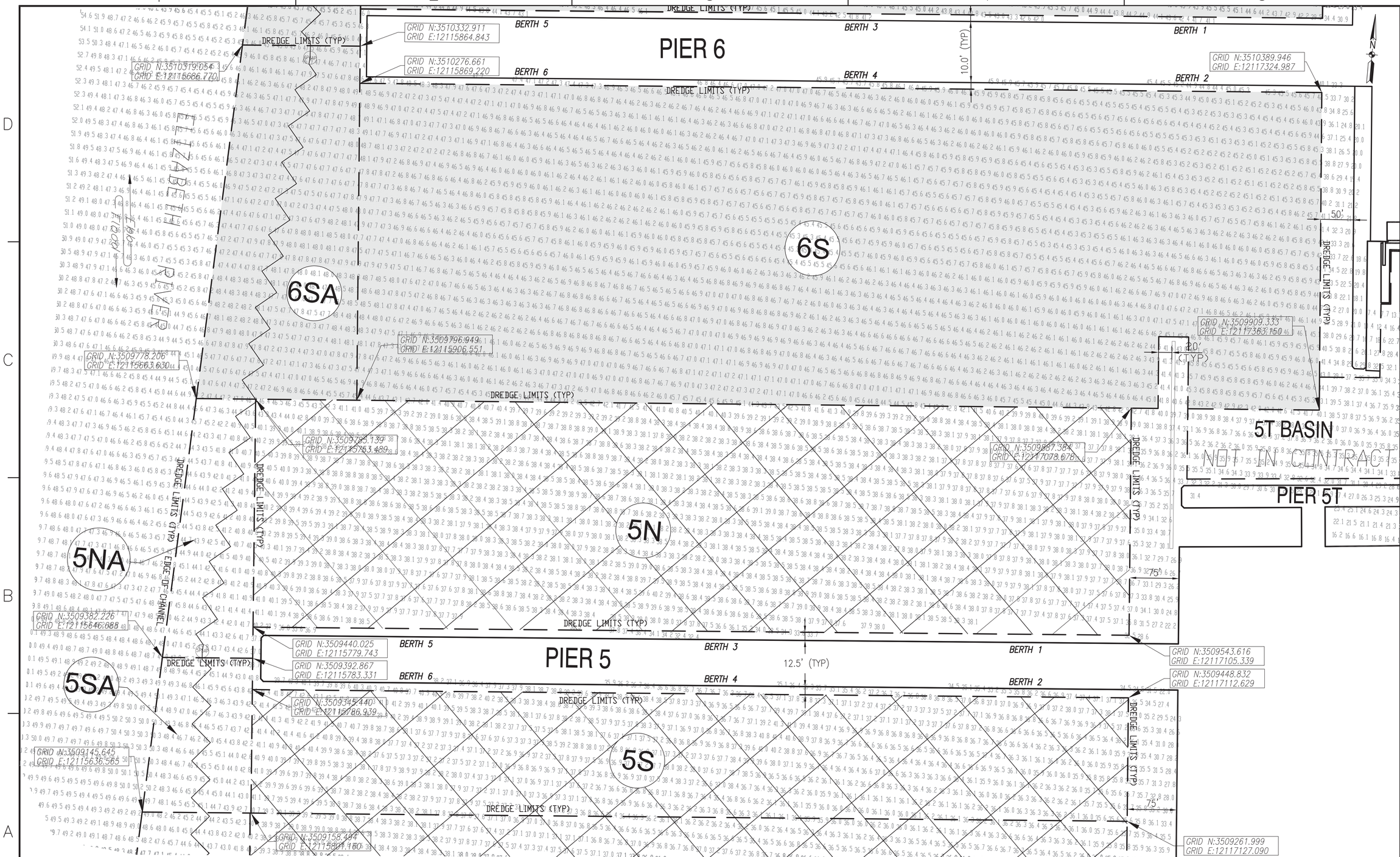
PIERS 3 & 4

CODE ID. NO. 80091 SIZE D
SCALE: AS NOTED
MAXIMO NO.
JOB ORDER NO.
WORK ORDER NO. 1358285
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12683434
SHEET 5 OF 14

V-103

DRAWFORM REVISION: 2 FEB 2011

FILE NAME: C:\Users\dane.wray\Documents\Hydro\NSN_Norvol Station Norfolk\NSN FY15 & FY16 Maint Dredge\drawings\NSN FY15 & FY16 Maint Dredge.dwg LAYOUT NAME: P3 & P4 PLOTTED: Monday, November 17, 2014 - 3:53pm USER: dane.wray



NOTES:

1. SOUNDINGS SHOWN ON THIS SHEET REFER TO NOAA MEAN LOWER LOW WATER DATUM (MLLW).
2. SOUNDINGS ARE FROM HYDROGRAPHIC SURVEYS CONDUCTED IN JULY, 2014

BID OPTION #2 | NOT IN CONTRACT | FY2015 BASE BID DREDGE AREAS | # DREDGE AREA ID

GRAPHIC SCALE

1" = 70'-0" 0 35' 70' 140'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

APPROVED BY 12/05/2014
James S. George, P.E.
CI-HYDRO BRANCH MGR.

AE LOGO

APPROVED
FOR COMMANDER NAVFAC
DATE

APPROVED
CDR MATT ANDERSON
ACTIVITY – SATISFACTORY TO
DATE

PROJECT MGR | SEAL

DES DSW | DRW DSW | CHK JSG
FIRE PROTECTION N/A
BRANCH MANAGER J. S. GEORGO, PE
CHIEF ENG/ARCH JOE FORMATO, PE

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAPITAL IMPROVEMENTS CORE
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION ~ NORFOLK, VIRGINIA
NORFOLK NAVAL STATION
NORFOLK, VA

FY15 & FY16 MAINTENANCE DREDGING
NAVAL STATION NORFOLK

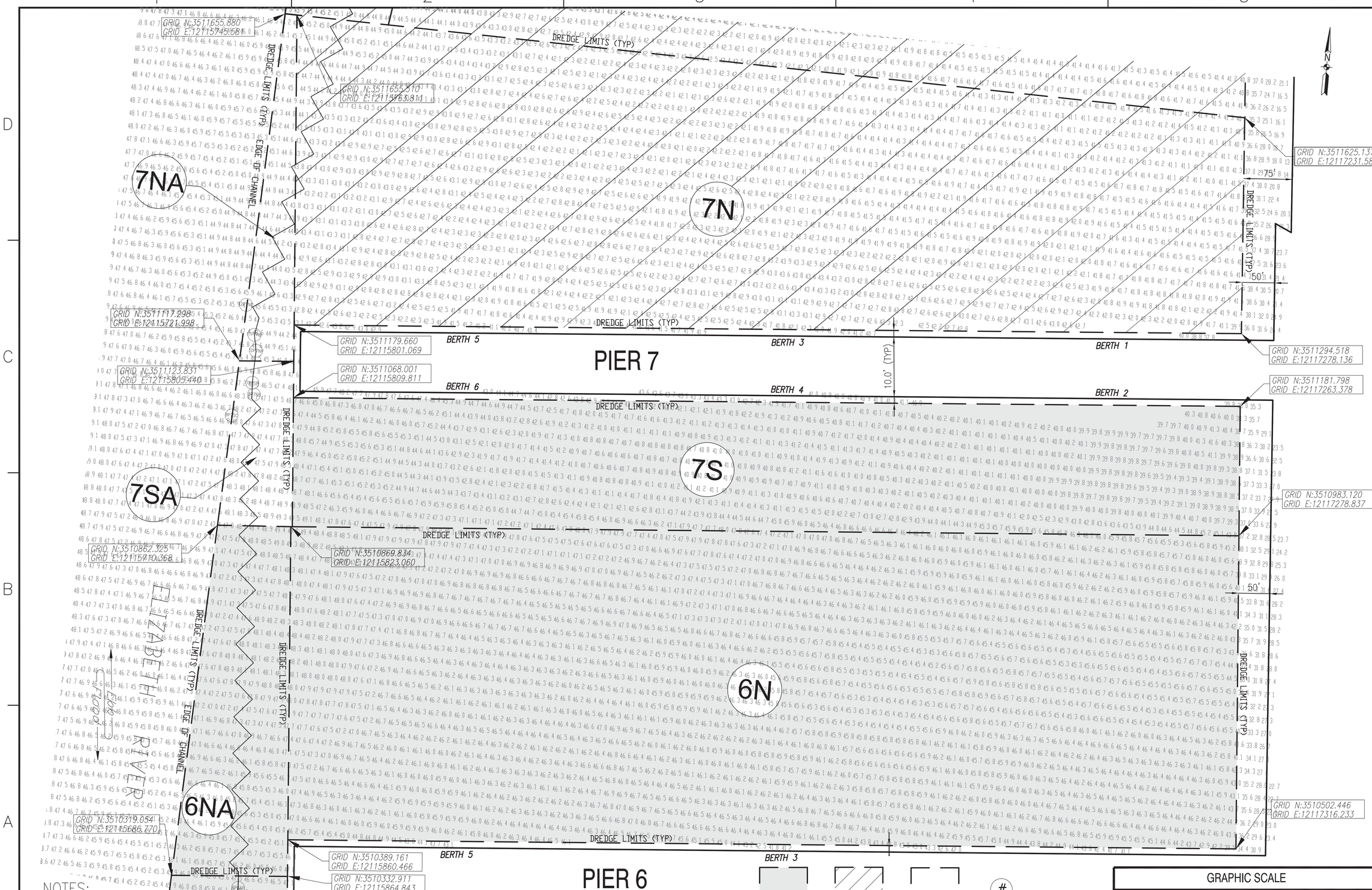
PIERS 5 & 6 SOUTH

CODE IID. NO. 80091 | SIZE D
SCALE: AS NOTED
MAXIMO NO.
JOB ORDER NO.
WORK ORDER NO. 1358285
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12683435
SHEET 6 OF 14

V-104

DRAWFORM REVISION: 2 FEB 2011

FILE NAME: C:\Users\dsnw.wrxp\Documents\Hydro\NSN_Naval Station Norfolk\NSN FY15 & FY16 Maint Dredge\drawings\NSN_FY15 & FY16 Maint Dredge.dwg LAYOUT NAME: P5 & P6S PLOTTED: Monday, November 17, 2014 – 3:54pm USER: dsnw.wrxp



NOTES:

1. SOUNDINGS SHOWN ON THIS SHEET REFER TO NOAA MEAN LOWER LOW WATER DATUM (MLLW).
2. SOUNDINGS ARE FROM HYDROGRAPHIC SURVEYS CONDUCTED IN JULY, 2014

GRAPHIC SCALE

1" = 70'-0" 0 35' 70' 140'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

APPROVED BY 12/05/2014
James S. George, P.E.
CI-HYDRO BRANCH MGR.

AE LOGO

APPROVED
FOR COMMANDER NAVFAC
DATE

APPROVED
CDR MATT ANDERSON
ACTIVITY – SATISFACTORY TO
DATE

PROJECT MGR | SEAL

DES DSW | DRW DSW | CHK JSG
FIRE PROTECTION N/A
BRANCH MANAGER J. S. GEORGO, PE
CHIEF ENG/ARCH JOE FORMATO, PE

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
CAPITAL IMPROVEMENTS CORE
NORFOLK NAVAL STATION

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NORFOLK, VA

FY15 & FY16 MAINTENANCE DREDGING
NAVAL STATION NORFOLK

PIERS 6 NORTH & 7

CODE ID. NO. 80091 | SIZE D
SCALE: AS NOTED
MAXIMO NO.
JOB ORDER NO.
WORK ORDER NO. 1358285
CONSTR. CONTR. NO. N/A
NAVFAC DRAWING NO. 12683436
SHEET 7 OF 14
V-105

DRAWFORM REVISION: 2 FEB 2011

FILE NAME: C:\Users\done.wray\Documents\Hydro\NSN_Naval Station Norfolk\NSN FY15 & FY16 Maint Dredge\drawings\NSN FY15 & FY16 Maint Dredge.dwg LAYOUT NAME: PIER & P7 PLOTTED: Monday, November 17, 2014 - 3:55pm USER: done.wray