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P991-toc_template_gov_baseline_workbook_12-10-14-use

P-991-toc_template_gov_team_guide_12-10-14

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5. PART 6d – Total Ownership Cost (TOC) continued

toc_template_final_design_workbook_12-10-14-use

toc_template_offeror_xyz_workbook_12-10-14-use

UFC 1-200-02 (7-Nov-2014) High Perf Sust Bldg Req

A

INSTALL:
4" TOP TAP TEE
12 ' SSPAVE SHUPPER
24 ' SC/L
6 ' EEPAVE LONGFELLOW
20 ' EC/L
3 ' COVER

4" STEEL VALVE
7 ' SSPAVE
1 ' SC/L
6 ' EEPAVE
20 ' EC/L

4" TRANSITION FITTING
6 ' SSPAVE
1 ' SC/L
5 ' EEPAVE
1 ' EC/L

TRANSITION STATION
6 ' SSPAVE
1 ' SC/L
5 ' EEPAVE
1 ' EC/L

B

4" x 2" H.V. ELECTROFUSION TEE
11 ' SSPAVE SHUPPER
24 ' SC/L
335 ' WWPAVE BETZER
345 ' WC/L
3 ' COVER

C

4" PX END CAP & L/S
11 ' SSPAVE SHUPPER
24 ' SC/L
335 ' WWPAVE BETZER
345 ' WC/L
3 ' COVER

D

2" H.V. ELECTROFUSION TEE
~~' SSBLDG WALL OF BLDG 2075~~
~~' WEBLDG WALL OF BLDG 2075~~
3 ' COVER

322 NNP SHUPPER DR
337 N CL
305 P BETZER DR
315 CL

E

CUT & CAP 2" PX MAIN EAST OF EXISTING SERVICE TEE FOR BLDG 2075

2" PX END CAP & L/S
~~' SSBLDG WALL OF BLDG 2075~~
~~' EEBLDG WALL OF BLDG 2075~~
3' COVER

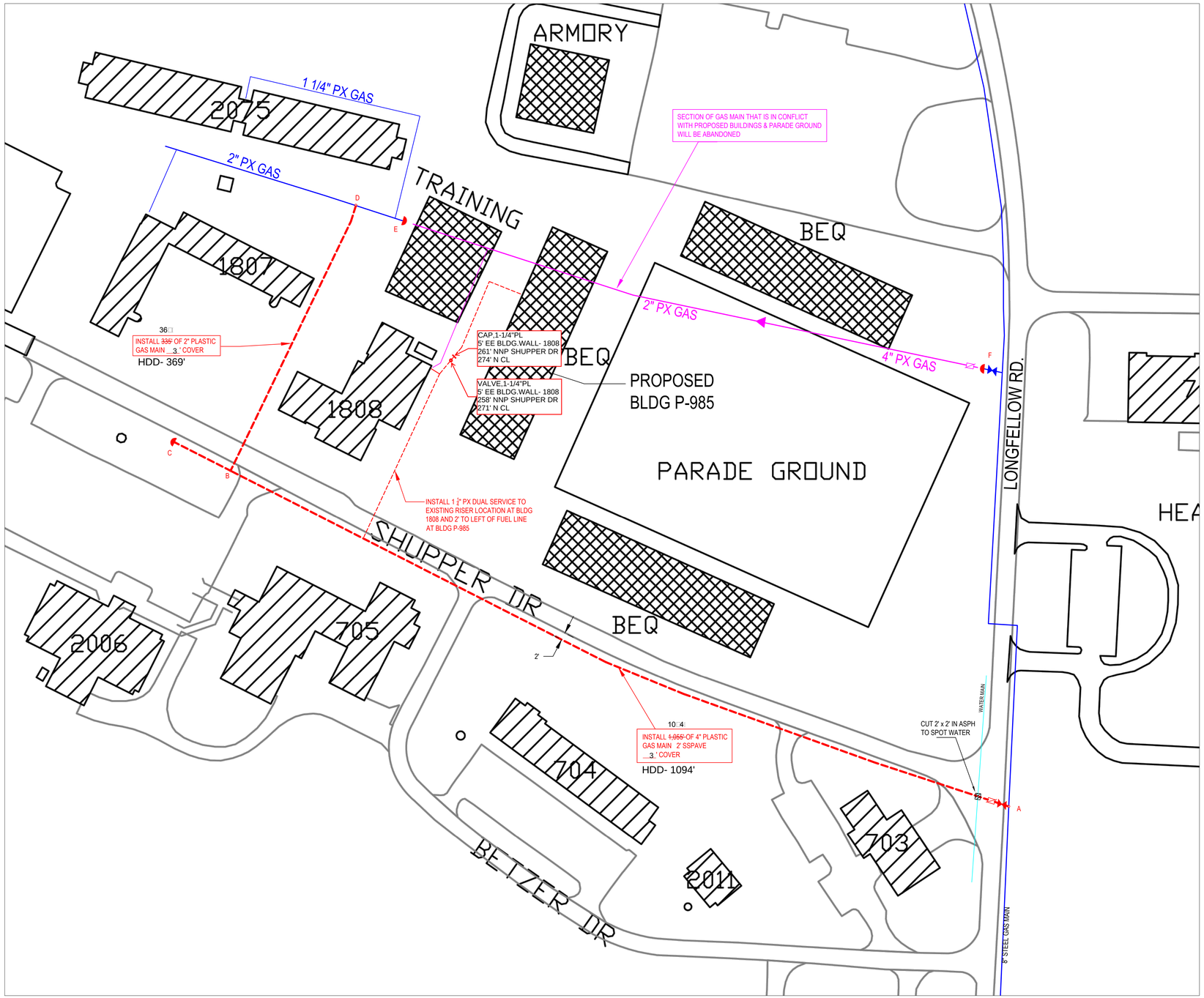
322 NNP SHUPPER DR
337 N CL
227 P BETZER DR
237 CL

F

CUT & CAP 4" STEEL MAIN AT 4" VALVE

4" STEEL END CAP
326 ' NNPAVE SHUPPER
343 ' NC/L
2 ' WWPAVE LONGFELLOW
40 ' WC/L
3 ' COVER

4" STEEL VALVE
321 NNP SHUPPER DR
33 N CL
2 P LONGFELLOW RD
40 CL



SITE CONTACT: LT. JED LOMAX
PHONE: 757-887-4381
E-MAIL: jedediah.lomax@navy.mil

DIG WITH C.A.R.E. Call Miss Utility @ 811 KEEP VIRGINIA SAFE

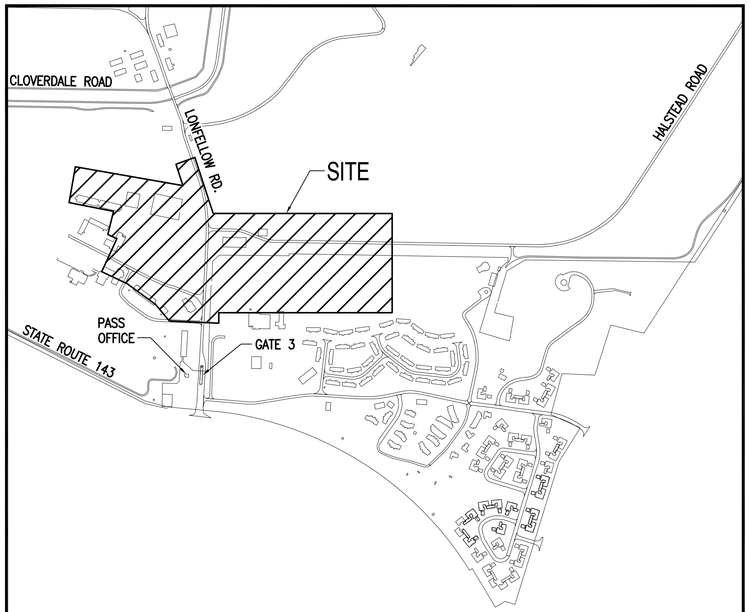
CONSTRUCTION CONTACTS	BUDGET TYPE	GAS MAIN INFORMATION		PRESSURE TEST
Contractor: ROSS & SONS	☐ NEW BUSINESS	LAID: PIPE,4"PL SDR- 13.5 OD-4.5	LAID: PIPE,2"PL SDR- 11 OD- 2.375	PRESSURE / DURATION / MEDIUM
Foreman: D. BACHAND	☐ MANDATORY	LAID:	LAID:	☐ 10 PSIG / ☐ 10 MIN / X AIR
Supervisor: T. ROSS	☐ RENEWAL	GRADE: ASTMD2513PE2406	GRADE: ASTMD2513PE2406	☐ 90 PSIG / ☐ 1 HR / ☐ WATER
Project Coord: R. DEAVER	☐ DOT/PUBLIC WORKS	MANUFACTURE: DRISCOPLEX	MANUFACTURE: DRISCOPLEX	☐ 225 PSIG / ☐ 24 HR / ☐ GAS
	☐ PRESSURE IMPROVEMENT	PRESSURE: MAOP- 60# NOP- 60#	PRESSURE: MAOP- 60# NOP- 60#	X OTHER 110 PSI / X OTHER 17 HOURS, 43 MIN. / ☐ SOAP TEST
	X RELOCATION			☐ OTHER
	☐ RETIREMENT			CONDUCTED BY D. BACHAND DATE 10/21/2014
	☐ REMOVAL			
	☐ OTHER			

Virginia Natural Gas

project number AFE# 135578 RE1# 135579 BCA# 125730 WMIS# 1853093	ENGINEERING DESIGN	DATE: 7/16/2014 SCALE: NTS	REV 0
COUNTY/CITY NEWPORT NEWS	PROJECT INFORMATION YORKTOWN NAVAL WEAPONS STATION BLDG P-985 SHUPPER DR ~~INSTALL 1,055' OF 4" PX & 335' OF 2" PX MAIN~~	PREPARED BY: KEVIN STARKE SHEET NO:1 OF 1	

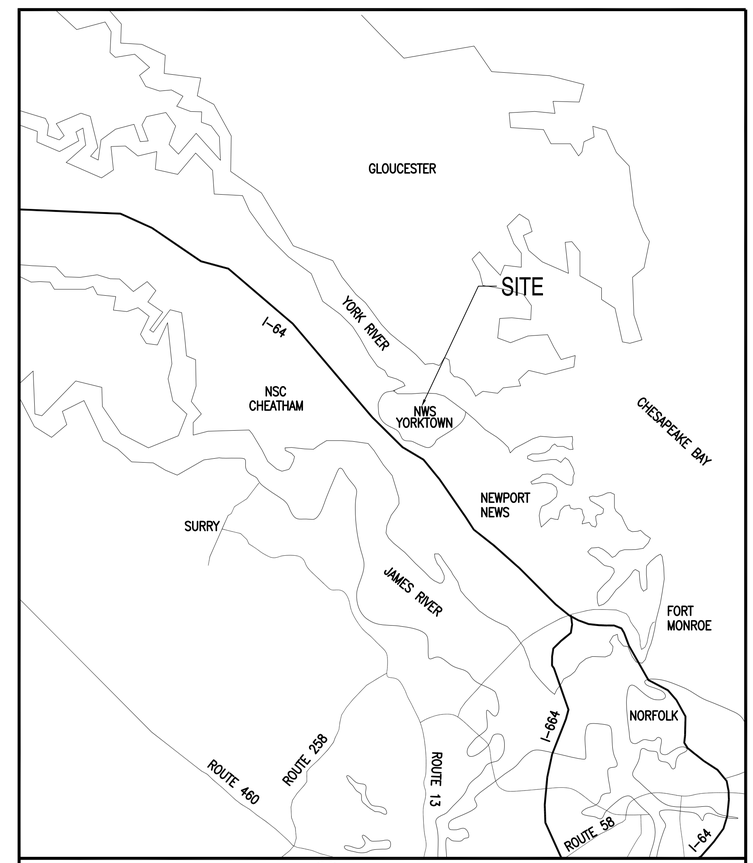
TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

NAVAL WEAPONS STATION
YORKTOWN, VA



LOCATION MAP
1" = 200'

INDEX OF DRAWINGS		
SHEET	TITLE	NAVFAC DWG. NO.
GI001	TITLE SHEET	–
CD001	LEGEND AND NOTES	–
CD002	EXISTING UTILITY SCHEDULES	–
CD003	OVERALL KEY MAP	–
CD101	TOPOGRAPHIC SURVEY	–
CD102	TOPOGRAPHIC SURVEY	–
CD103	TOPOGRAPHIC SURVEY	–
CD104	TOPOGRAPHIC SURVEY	–
CD105	TOPOGRAPHIC SURVEY	–
CD106	TOPOGRAPHIC SURVEY	–
CD107	TOPOGRAPHIC SURVEY	–
CD108	TOPOGRAPHIC SURVEY	–
CD109	TOPOGRAPHIC SURVEY	–
CD110	TOPOGRAPHIC SURVEY	–
CD111	TOPOGRAPHIC SURVEY	–
CD112	TOPOGRAPHIC SURVEY	–
CD113	TOPOGRAPHIC SURVEY	–
CD114	TOPOGRAPHIC SURVEY	–
CD115	TOPOGRAPHIC SURVEY	–
CD116	TOPOGRAPHIC SURVEY	–
CD117	TOPOGRAPHIC SURVEY	–
CD118	TOPOGRAPHIC SURVEY	–
CD119	TOPOGRAPHIC SURVEY	–



VICINITY MAP
NOT TO SCALE

STM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
C. ALLAN BAMFORTH, JR.
Lic. No. 838
08/01/12
LAND SURVEYOR
SEAL

C. ALLAN BAMFORTH, JR.,
ENGINEER–SURVEYOR, LTD.
NORFOLK, VIRGINIA

A/E LOGO

SAT–TO

APPROVED
FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER
REVIEWED BY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989
COVER SHEET

CODE ID. NO. 80091 | SIZE D
SCALE: NONE
MAXIMO NO.
JOB ORDER NO. 5A5010
SPEC. NO. 1113911
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
–
SHEET 1 OF 23

GI001

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: C:\Users\vazn\appdata\local\temp\AcPublish_17520\GI001.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:51am

LEGEND:

	EXISTING (E.)
TOP OF CURB OR CONCRETE (TC) ELEVATION / ELEVATION OF GUTTER, PAVEMENT OR GROUND	TC 66.26 / 65.77
SPOT ELEVATION	+66.43
TOP OF WALL (TW) ELEVATION	+TW66.77
BITUMINOUS PAVEMENT	
BOLLARD	
BUILDING (BLDG.)	
BUSH	
CENTERLINE DITCH/SWALE	
CONCRETE (CONC.)	CONC.
CONCRETE (CONC.) PAD W/ AIR CONDITIONING UNIT	A/C
CONCRETE (CONC.) PAD W/TRANSFORMER	T
CONCRETE (CONC.) PAD W/ GENERATOR	G
CONCRETE (CONC.) PAD W/ FUEL TANK	FT
CONTOUR	60
CURB	
CURB AND GUTTER	
EDGE OF WOODS	
FLOWER BED (F.B.)	F.B.
FENCE	x x
GRAVEL	GRAVEL
SIGN	
TOE OF SLOPE (T.O.S.)	T.O.S.
TOP OF BANK (T.O.B.)	T.O.B.
TREE	6"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E. S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
UNDERGROUND (UG.) FIBER OPTIC (F.O.)	E. UG. F.O.
WATER (W.) MAIN	8" E. W.
CATCH BASIN (C.B.)	E. C.B.

LEGEND:

	EXISTING (E.)
CLEAN OUT (C.O.)	C.O.
CONDUIT (COND.)	COND.
FIRE DEPARTMENT CONNECTION (F.D.C.)	
FIRE HYDRANT (F.H.)	
FLARED END SECTION (F.E.S.)	
GUY WIRE	
HEADWALL (HDWL.)	
LIGHT POLE IN CONCRETE	
MANHOLE (MH.)	E. MH.
METAL LIGHT POLE	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (RD.)	R.D.
TELEPHONE (TEL.) PEDESTAL (PED.)	TEL. PED.
UTILITY POLE	
UTILITY POLE W/ LIGHT	
WATER METER (W.M.)	W.M.
WATER VALVE (W.V.)	W.V.
CHAIN LINK FENCE	CLF
COVER	CVR.
FINISHED FLOOR	F.F.
INACCESSIBLE	I/A
INVERT	INV.
METAL	MTL.
STRUCTURE	STRUC.
TYPICAL	TYP.
WITH	W/

SURVEY NOTES:

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER–SURVEYOR LTD., DATED MARCH 2012.
2. THE EXISTENCE, SIZE AND/OR LOCATION OF UTILITIES ARE NOT GUARANTEED BY THIS SURVEY. UTILITIES SHOWN ARE BASED ON ABOVE GROUND STRUCTURES AND AVAILABLE UTILITY PLANS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NGS CONTROL STATION T454.
4. COORDINATES SHOWN REFER TO VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD 1983/93) AND WERE ESTABLISHED FROM NGS CONTROL UTILIZING GPS. VALUES ARE IN US SURVEY FEET.
5. TEMPORARY BENCHMARK (TBM) IS A "□" CUT IN CONCRETE SIDEWALK, AS INDICATED ON SHEET CD116. ELEV. = 71.19.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
C. ALLAN BAMFORTH, JR.
Lic. No. 838
08/01/12
LAND SURVEYOR
SEAL

C. ALLAN BAMFORTH, JR.,
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NORFOLK, VIRGINIA

A/E LOGO

SAT–TO

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FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

REVIEWED BY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION YORKTOWN, VIRGINIA
TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

LEGEND AND NOTES

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

SHEET 2 OF 23

CD001

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD001.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:52am

EXISTING STORM SEWER SCHEDULE

1. E. S. MH.
RIM = 64.68
INV. 6" (SE) = 58.32
INV. 6" (NW) = 61.33
INV. 15" (NW) = 60.38

2. F.E.S.
INV. = 60.04

3. E. C.B.
RIM = 63.26
INV. 12" (NE) = 60.25

4. F.E.S.
INV. = 59.48

5. E. C.B.
RIM = 54.04
INV. 15" (SW) = 51.70
INV. 18" (NE) = 51.75

6. PIPE END
INV. = 53.07

7. PIPE END
INV. = 51.07

8. E. C.B.
RIM = 53.08
INV. 4" (NW) = 51.87
INV. 18" (SW) = 50.90
INV. 18" (N) = 50.78

9. PIPE END
INV. = 44.62

10. PIPE END
INV. = 43.66

11. PIPE END
INV. = 41.24

12. CONC. HDWL.
INV. = 45.15

13. E. C.I.
RIM = 66.20
INV. 12" (NW) = 61.83
INV. 15" (SE) = 61.62

14. E. C.I.
RIM = 66.17
INV. 4" (SW) = 61.71
INV. 15" (NW) = 61.39
INV. 15" (NE) = 61.23

15. CONC. HDWL.
INV. = 53.71

16. E. C.B.
RIM = 67.04
INV. = I/A

17. CONC. HDWL.
INV. = 59.75

18. CONC. HDWL.
INV. = 51.09

19. CONC. HDWL.
INV. = 49.94

20. E. S. MH.
RIM = 55.89
INV. = I/A

21. CONC. HDWL.
INV. = 51.77

22. CONC. HDWL.
INV. = 49.90

23. PIPE END
INV. = 43.68

24. E. C.B.
RIM = 58.13
INV. 4" (E) = 54.45

25. E. C.B.
RIM = 58.12
INV. OF STRUC. = 54.39

26. CONC. HDWL.
INV. = 53.06

27. E. C.B.
RIM = 56.30
INV. 12" (E) = 54.08

28. E. DRAIN
RIM = 70.77
INV. 4" (NE) = 70.17

29. E. TRENCH DRAIN
RIM = 55.71
INV. 6" (E) = 54.58

30. PIPE END
INV. = 55.24

31. CONC. HDWL.
INV. = 54.83

32. CONC. HDWL.
INV. = 54.46

33. CONC. HDWL.
INV. = 52.31

34. CONC. HDWL.
INV. = 49.64

35. CONC. HDWL.
INV. = 46.04

36. CONC. HDWL.
INV. = 45.21

37. PIPE END
INV. = 53.43

38. CONC. HDWL.
INV. = 53.17

39. E. S. MH.
RIM = 53.40
INV. 30" (NW) = 49.30
INV. 30" (SE) = 49.29

40. CONC. HDWL.
INV. = 48.01

41. CONC. HDWL.
INV. = 49.87

42. PIPE END
INV. = 63.80

43. PIPE END
INV. = 63.53

44. E. C.B.
RIM = 65.50
INV. 12" (NE) = 63.64

45.
RIM = 66.20
INV. 12" (SW) = 63.45
INV. 18" (NW) = 63.11
INV. 18" (SE) = 63.01

46. CONC. HDWL.
INV. = 63.60

47. E. S. MH.
RIM = 65.93
INV. 15" (SW) = 63.14
INV. 18" (NW) = 62.97
INV. 18" (SE) = 62.97

48. CONC. HDWL.
INV. = 63.19

49. PIPE END
INV. = 64.06

50. PIPE END
INV. = 63.81

51. PIPE END
INV. = 64.28

52. PIPE END
INV. = 64.15

53. CONC. HDWL.
INV. = 64.36
E. C.I.

54. CONC. HDWL.
INV. = 64.00

55. CONC. HDWL.
INV. = 64.26

56. E. C.B.
RIM = 66.53
INV. OF STRUC. = 64.97

57. CONC. HDWL.
INV. = 64.88

58. E. C.B.
RIM = 67.34
INV. 12" (NW) = 63.95
INV. 15" (SW) = 62.87
INV. 18" (NE) = 62.53

59. CONC. HDWL.
INV. = 64.63

60. CONC. HDWL.
INV. = 63.52

61. CONC. HDWL.
INV. = 64.91

62. CONC. HDWL.
INV. = 64.65

63. CONC. HDWL.
INV. = 66.87

64. CONC. HDWL.
INV. = 66.83

65. PIPE END
INV. = 67.36

66. CONC. HDWL.
INV. 36" (NW) = 46.97

67. E. C.B.
RIM = 52.50
INV. 36" (SE) = 46.65
INV. 36" (NW) = 46.43

68. CONC. HDWL.
INV. 36" (SE) = 46.24

69. E. S. MH.
RIM = 61.61
INV. 6" (SE) = I/A

70. CONC. HDWL.
INV. 6" (NW) = 58.41

71. E. S. MH.
RIM = 62.82
INV. 4" (SE) = 58.44
INV. 8" (NE) = 58.42
INV. 8" (SW) = 58.40

72. E. C.I.
RIM = 65.43
INV. 15" (NE) = 62.38

73. E. C.I.
RIM = 65.13
INV. (STRUC.) = 62.44

74. E. C.B.
RIM = 65.10
INV. 12" (NE) = 62.25
INV. 18" (SE) = 61.93
INV.18" (SW) = 61.93

75. E. C.B.
RIM = 64.15
INV. 18" (NE) = 61.30
INV. 24" (SW) = 60.70

76. E. C.B.
RIM = 63.30
INV. 24" (NE) = 59.87
INV. 24" (SW) = 59.83

77. E. S. MH.
RIM = 64.60
INV. 8" (SE) = 61.42
INV. 24" (NE) = 59.31
INV. 24" (SW) = 59.14

78. CONC. HDWL.
INV. 8" (SW) = 57.66

EXISTING SANITARY SEWER SCHEDULE

1. E. SAN. MH.
RIM = 70.80
INV. 8" (S) = 62.42
INV. 8" (NW) = 62.32

2. E. SAN. MH.
RIM = 70.30
INV. 4" (NW) = 65.45
INV. 6" (NE) = 63.13
INV. 8" (SE) = 62.20
INV. 8" (NW) = 62.18

3. E. SAN. MH.
RIM = 67.41
INV. 8" (SE) = 60.97
INV. 8" (NW) = 60.83

4. E. SAN. MH.
RIM = 65.65
INV. 4" (NW) = 62.42
INV. 4" (SW) = 61.41
INV. 8" (NW) = 60.43
INV. 8" (SE) = 60.41

5. E. SAN. MH.
RIM = 65.57
INV. 8" (SW) = 59.70
INV. 8" (NW) = 59.55
INV. 8" (SE) = 59.85
INV. 10" (NE) = 59.42

6. E. SAN. MH.
RIM = 66.25
INV. 8" (NW) = 59.69
INV. 8" (NE) = 59.19
INV. 10" (SW) = 59.18

7. E. SAN. MH.
(NOT FOUND)

8. E. SAN. MH.
(NOT FOUND)

9. E. SAN. MH.
RIM = 66.11
INV. 8" (SE) = 60.36
INV. 8" (SW) = 58.11
INV. 10" (NE) = 57.95

10. E. SAN. MH.
RIM = 61.68
INV. 8" (SW) = 57.03
INV. 10" (SW) = 56.80
INV. 10" (NE) = 56.80

11. E. SAN. MH.
RIM = 57.68
INV. 6" (S) = 51.38
INV. 8" (W) = 51.09

12. E. SAN. MH.
RIM = 55.82
INV. 8" (E) = 49.65
INV. 8" (NW) = 49.64

13. E. SAN. MH.
RIM = 59.42
INV. = I/A

14. E. SAN. MH.
RIM = 58.05
INV. 4" (SW) = 52.43
INV. 8" (NW) = 48.78
INV. 8" (SE) = 48.72

15. E. SAN. MH.
RIM = 59.25
INV. 8" (SE) = 47.93
INV. 10" (SW) = 47.96
INV. 10" (NW) = 47.89

16. E. SAN. MH.
RIM = 54.09
INV. 10" (SE) = 46.77
INV. 10" (NE) = 46.58

17. E. SAN. MH.
RIM = 53.13
INV. 10" (SW) = 46.51
INV. 10" (NE) = 46.39

18. E. SAN. MH.
RIM = 53.07
INV. 10" (SW) = 45.83
INV. 10" (SE) = 45.81

19. E. SAN. MH.
RIM = 53.90
INV. 3" (SE) = 49.44
INV. 10" (NW) = 44.95
INV. 10" (SE) = 44.83

20. E. SAN. MH.
RIM = 50.60
INV. 10" (NW) = 43.62
INV. 10" (NE) = 40.66
INV. 10" (NW) = 40.52

21. E. SAN. MH.
RIM = 48.94
INV. 10" (SW) = 40.19
INV. 10" (NW) = 40.06

22. E. SAN. MH.
RIM = 48.12
INV. 10" (NW) = 39.23
INV. 10" (SE) = 39.20

23. E. SAN. MH.
RIM = 54.26
INV. 4" (W) = 49.28
INV. 8" (NE) = 48.96

24. E. SAN. MH.
RIM = 56.25
INV. 4" (W) = 52.29
INV. 4" (E) = 45.52

25. E. SAN. MH.
RIM = 52.65
INV. 4" (W) = 43.72
INV. 4" (NE) = 43.69

26. E. SAN. MH.
RIM = 57.27
INV. 8" (SE) = 52.58
INV. 8" (NW) = 52.53

27. E. SAN. MH.
RIM = 55.71
INV. 8" (SE) = 51.04
INV. 8" (NE) = 50.97

28. E. SAN. MH.
RIM = 56.07
INV. 8" (SW) = 48.29
INV. 10" (E) = 48.16
INV. 10" (W) = 48.14

29. E. SAN. MH.
RIM = 53.99
INV. 10" (E) = 46.49
INV. 10" (NW) = 46.37

30. E. SAN. MH.
RIM = 49.17
INV. 4" (SW) = 42.46
INV. 10" (SE) = 42.40
INV. (NW) = 42.24

31. E. SAN. MH.
RIM = 51.58
INV. 10" (W) = 45.96
INV. 10" (SE) = 45.91

32. E. SAN. STRUC.
RIM = 49.25
INV. 10" (E) = 44.92
INV. 10" (W) = 44.86

33. E. OIL/WATER SEPARATOR
RIM = 58.28
INV. 4" (E) = 53.37
INV. 12" (W) = 53.99

34. E. SAN. MH.
RIM = 83.07
INV. 10" (SE) = 75.09
INV. 10" (NW) = 75.05

35. E. SAN. MH.
RIM = 54.90
INV. 10" (SE) = 50.61
INV. 10" (NW) = 50.56

36. E. SAN. MH.
RIM = 60.38
INV. = I/A

37. E. SAN. MH.
RIM = 65.40
INV. 8" (SE) = 60.80
INV. 8" (SW) = 60.80

38. E. SAN. MH.
RIM = 65.77
INV. 8" (NE) = 62.85
INV. 8" (SE) = 62.79

EXISTING ELECTRIC/TELEPHONE SCHEDULE

1. E. COMM. VAULT
RIM = 67.30

2. E. ELEC. MH.
RIM = 66.00

3. E. COMM. VAULT
RIM = 60.64

4. E. COMM. VAULT
RIM = 66.20

5. E. COMM. VAULT
RIM = 69.02

6. E. COMM. VAULT
RIM = 71.78

EXISTING UNKNOWN UTILITY SCHEDULE

1. E. MTL. CVR.
RIM = 65.57

2. E. MH.
RIM = 65.49

3. E. UTIL. VAULT
RIM = 71.08

4. E. MH.
RIM = 55.08

5. E. DRY WELL
RIM = 67.26

EXISTING FUEL SCHEDULE

1. E. FUEL TANK
RIM = 58.52

2. E. FUEL TANK
RIM = 58.67

3. E. FUEL TANK
RIM = 58.54

SYM	DESCRIPTION	DATE	APPR

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SEAL

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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HR IPT
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NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION YORKTOWN, VIRGINIA
TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989
EXISTING UTILITY SCHEDULES

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

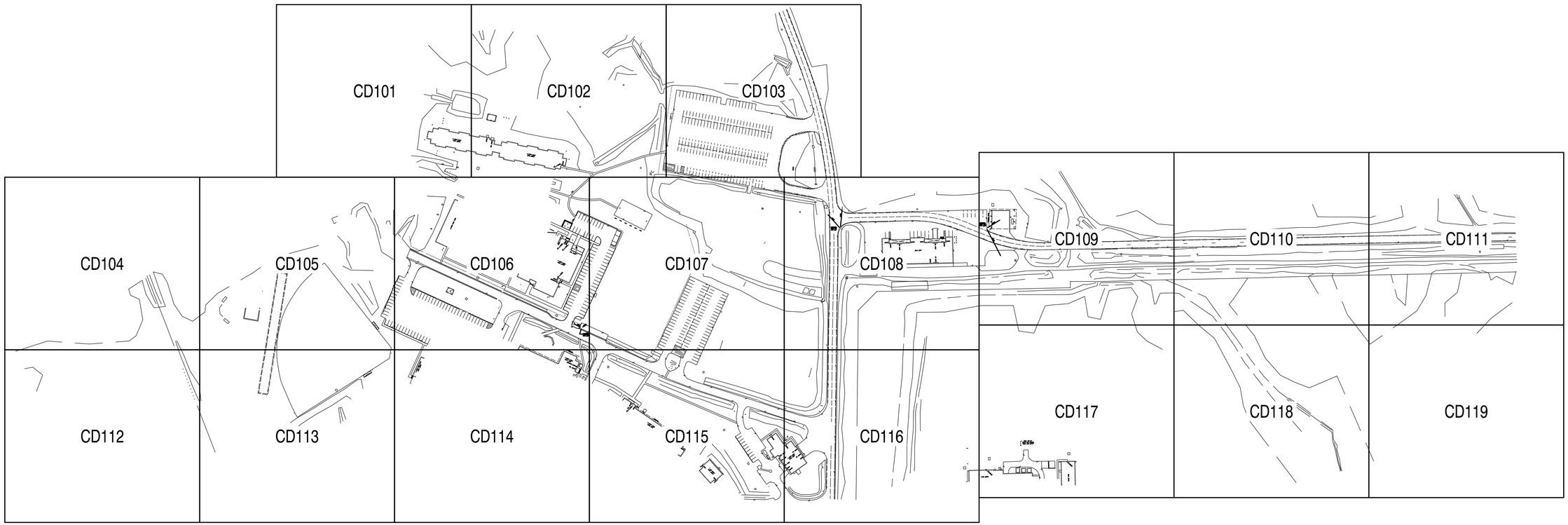
NAVFAC DRAWING NO.
–

SHEET 3 OF 23

CD002

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD002.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:52am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

GRAPHIC SCALE:

1" = 150'

150 0 150 300 600

SYM	DESCRIPTION	DATE	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

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NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

OVERALL KEY MAP

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

SHEET 4 OF 23

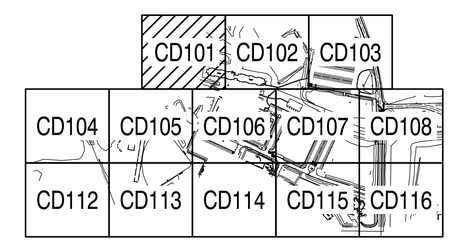
CD003

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD003.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:52am

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	DESCRIPTION	STM	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

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NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989
TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

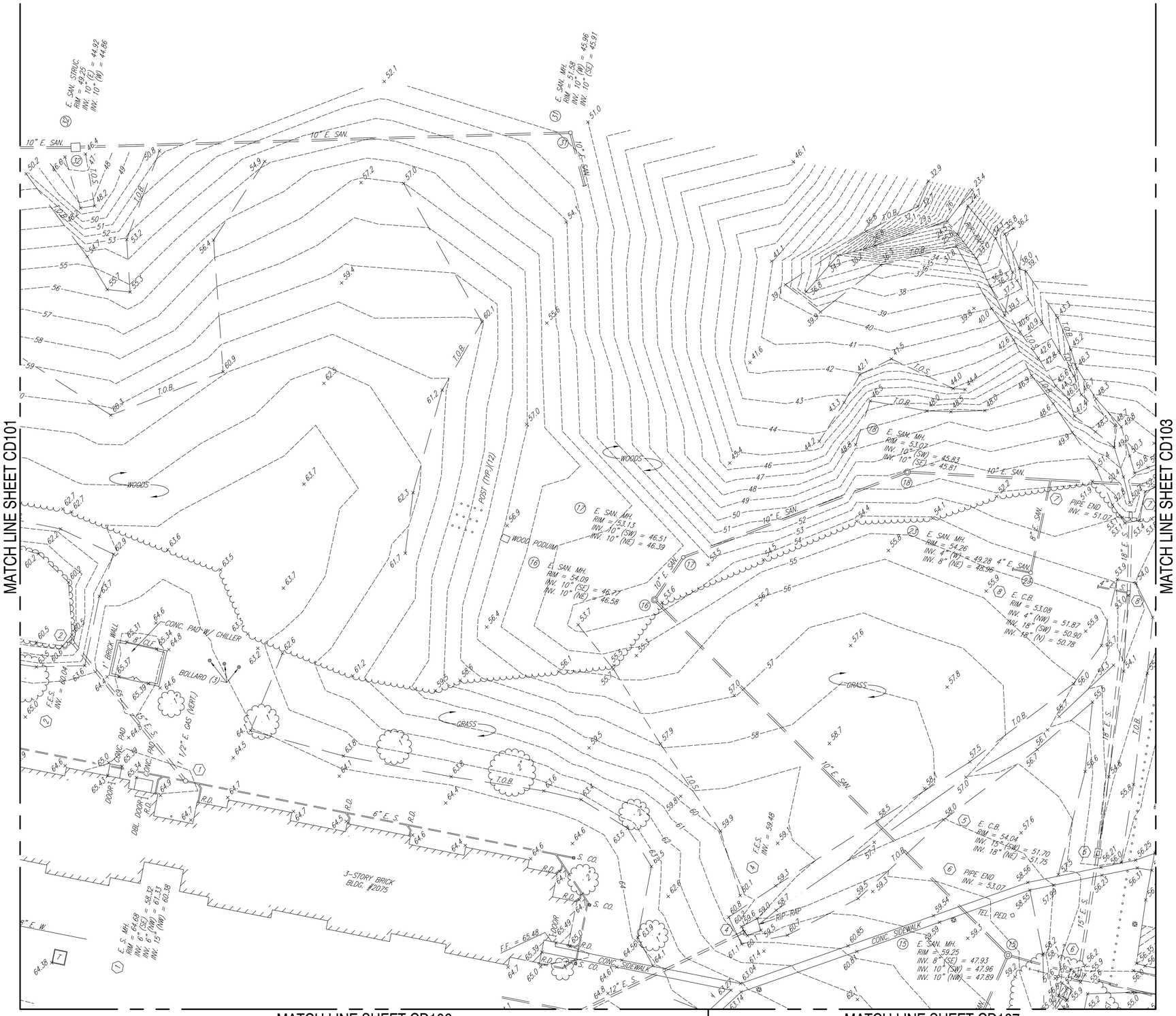
NAVFAC DRAWING NO.
–

SHEET 5 OF 23

CD101

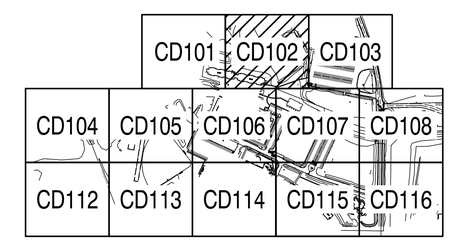
DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\1106?\Final Resubmittal\CD101.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:53am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	APPR	DESCRIPTION	STM

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

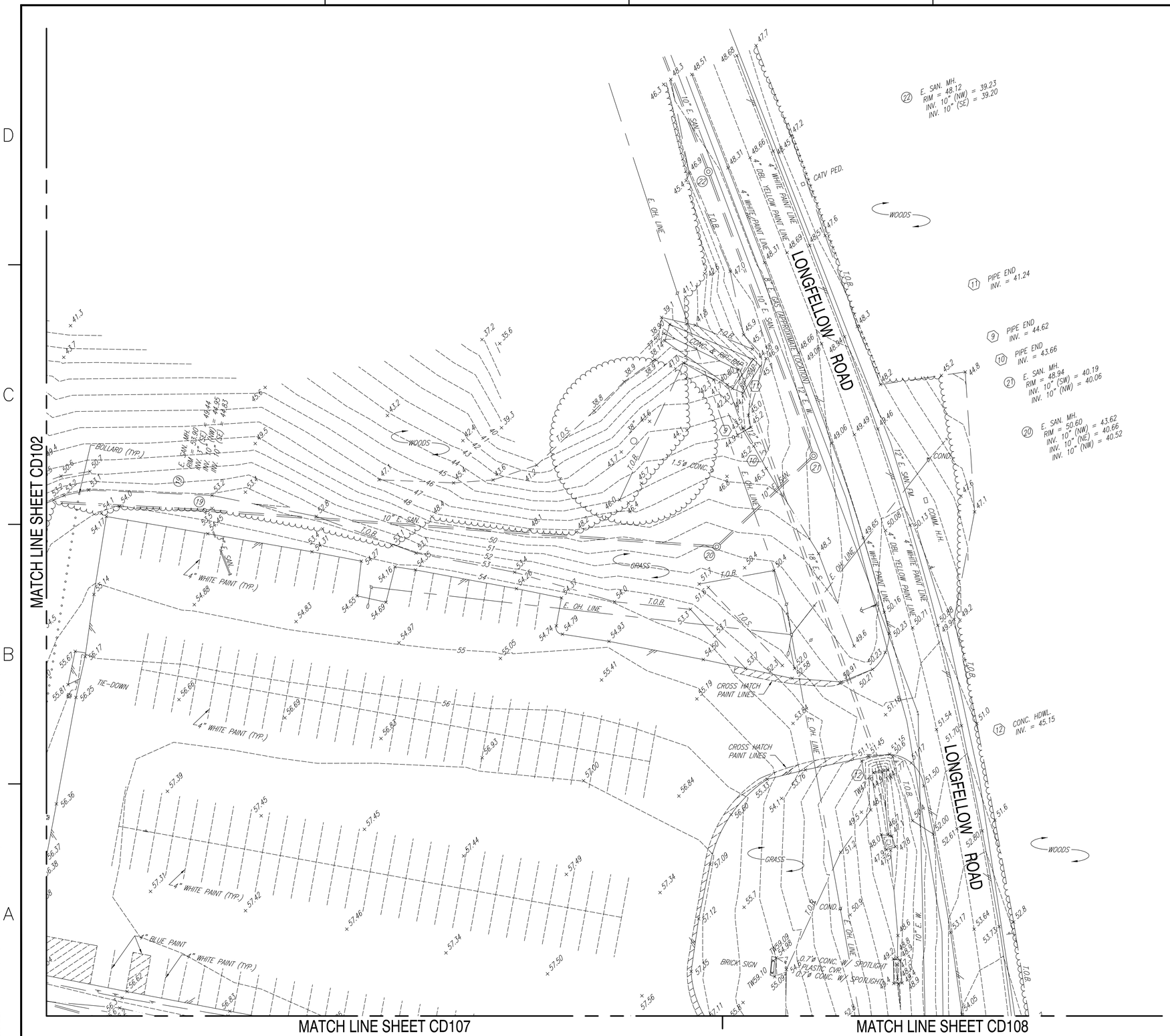
NAVFAC DRAWING NO.
–

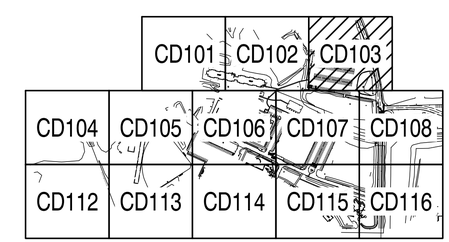
SHEET 6 OF 23

CD102

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD102.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 - 11:53am





KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HR IPT
NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

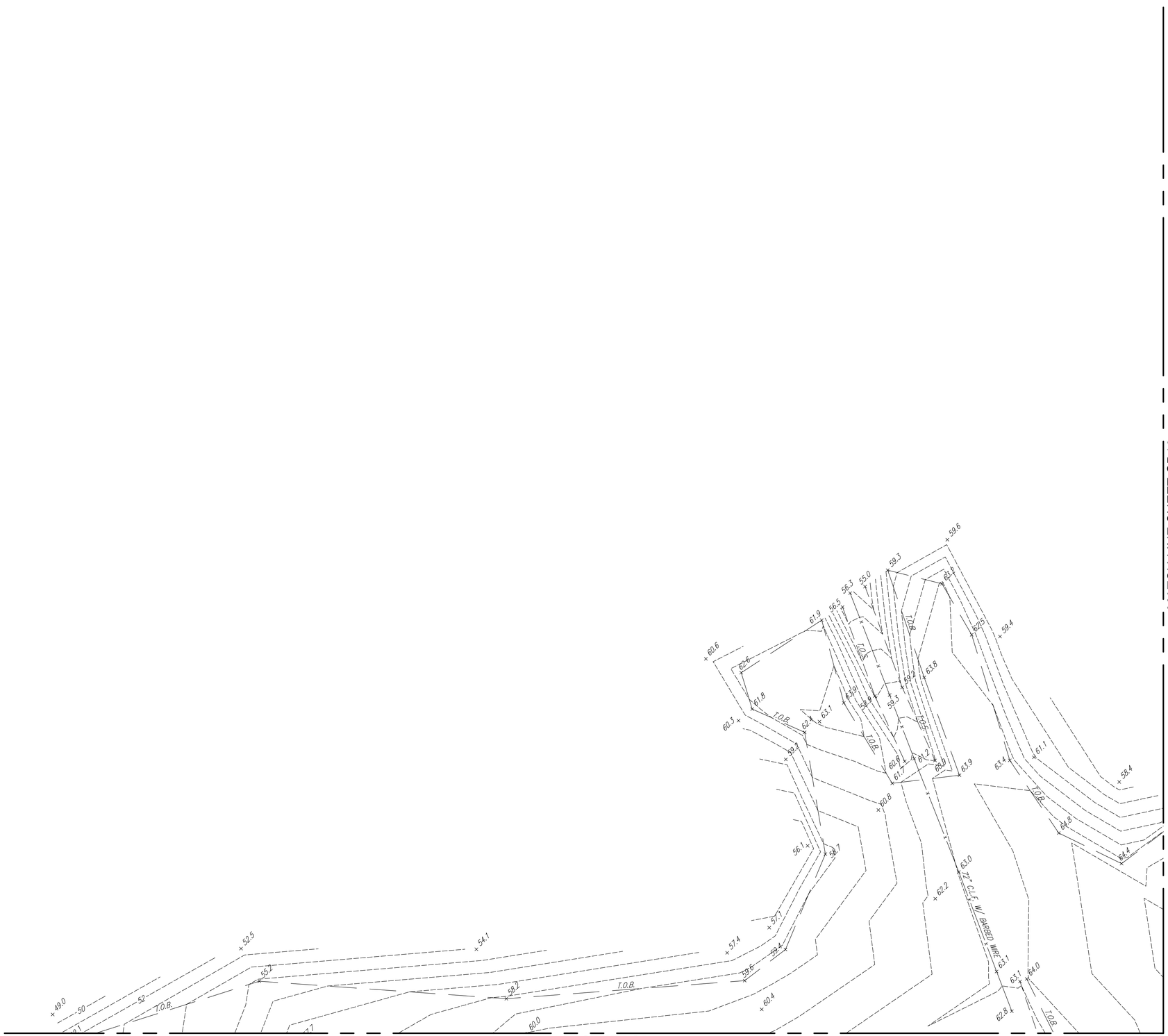
NAVFAC DRAWING NO. –

SHEET 7 OF 23

CD103

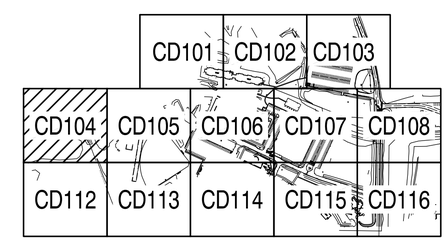
DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD103.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:53am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	DESCRIPTION	STM	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

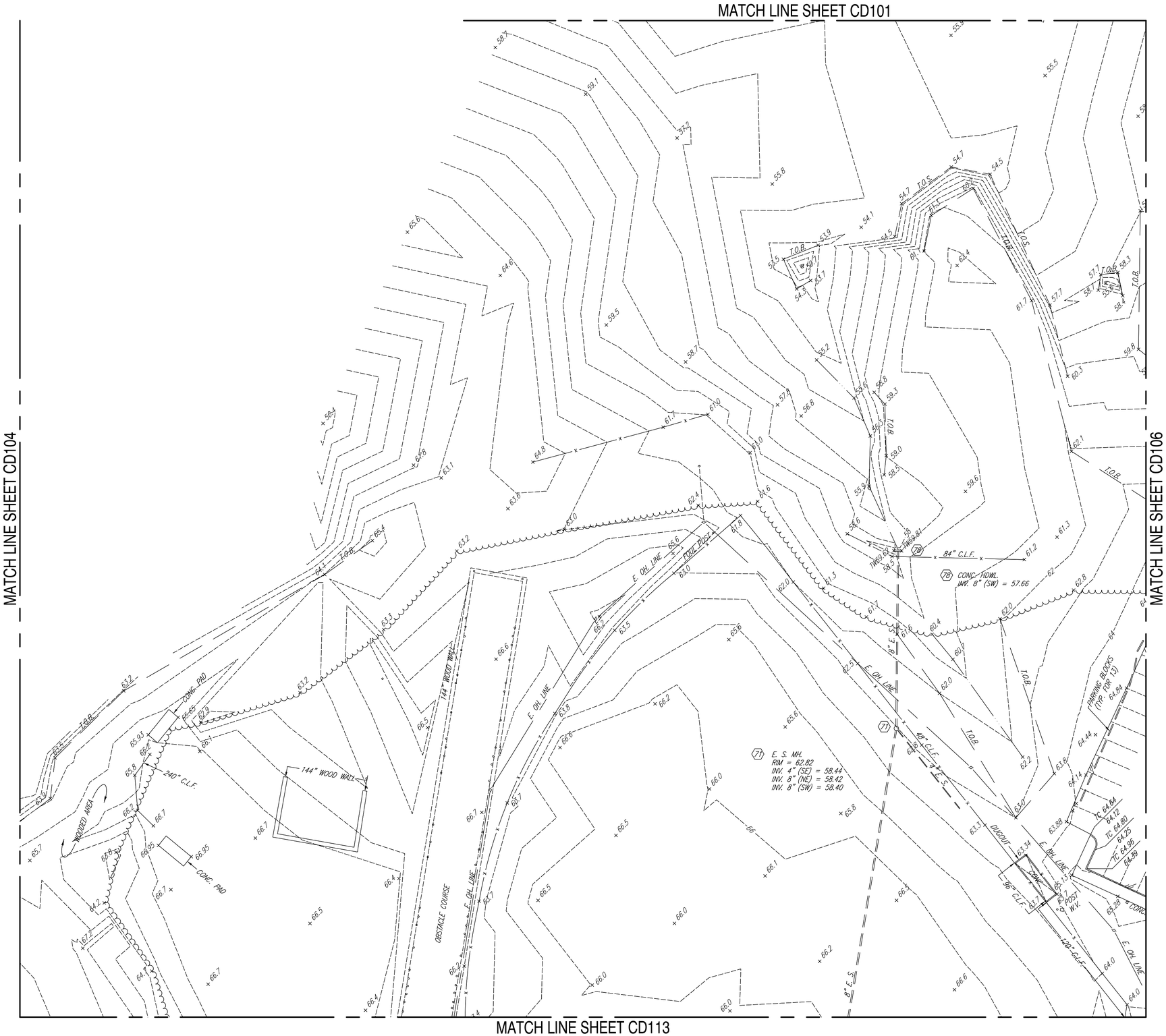
NAVFAC DRAWING NO.
–

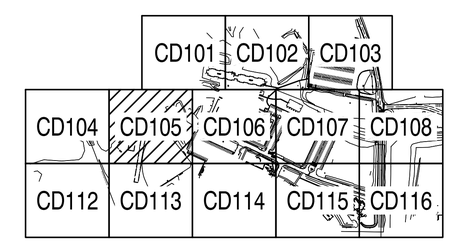
SHEET 8 OF 23

CD104

DRAWFORM REVISION: 15 JANUARY 2008

REV/DATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD104.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:53am





KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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

NAVAL WEAPONS STATION YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091	SIZE D
SCALE: GRAPHIC	
MAXIMO NO.	
JOB ORDER NO. 5A5010	
SPEC. NO. 1113911	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. –	
SHEET 9 OF 23	

CD105

DRAWFORM REVISION: 15 JANUARY 2008

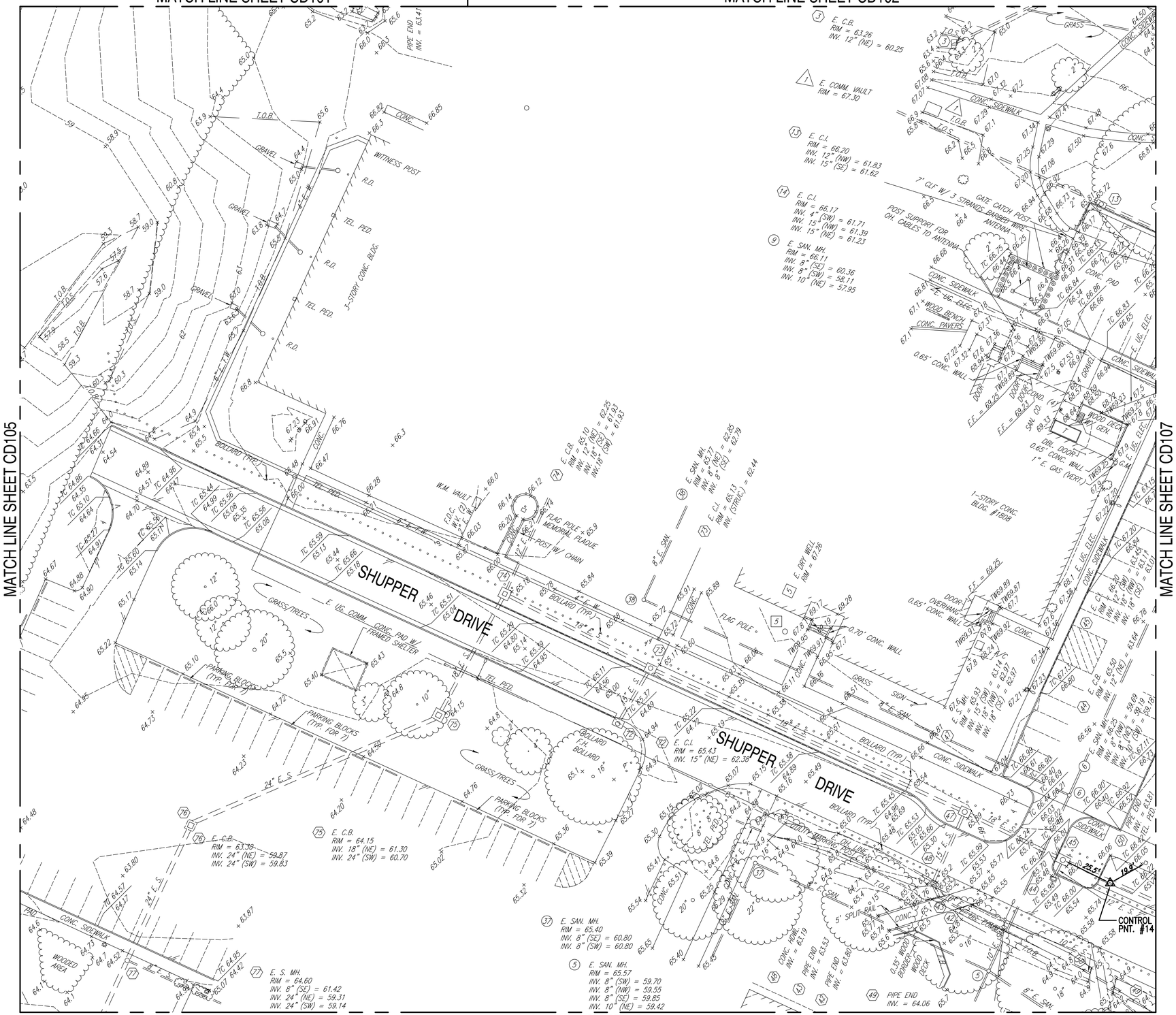
REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD105.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:54am

MATCH LINE SHEET CD101

MATCH LINE SHEET CD102

MATCH LINE SHEET CD105

MATCH LINE SHEET CD107



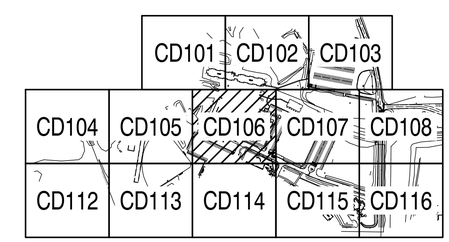
MATCH LINE SHEET CD114

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

SURVEY CONTROL POINT:

CONTROL POINT 14
P/K NAIL
NORTHING = 3,607,929.01
EASTING = 12,040,356.68
ELEV. = 65.90



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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HR IPT
NAVAL WEAPONS STATION YORKTOWN, VIRGINIA

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. –

SHEET 10 OF 23

CD106

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\1067\Final Resubmittal\CD106.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:54am

MATCH LINE SHEET CD102

MATCH LINE SHEET CD103

MATCH LINE SHEET CD106

MATCH LINE SHEET CD108

MATCH LINE SHEET CD115

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

KEY PLAN

	CD101	CD102	CD103	
CD104	CD105	CD106	CD107	CD108
CD112	CD113	CD114	CD115	CD116

GRAPHIC SCALE:

1" = 25' 25 0 25 50 100

DATE	DESCRIPTION	STM	APPR

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

SHEET 11 OF 23

CD107

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD107.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:55am

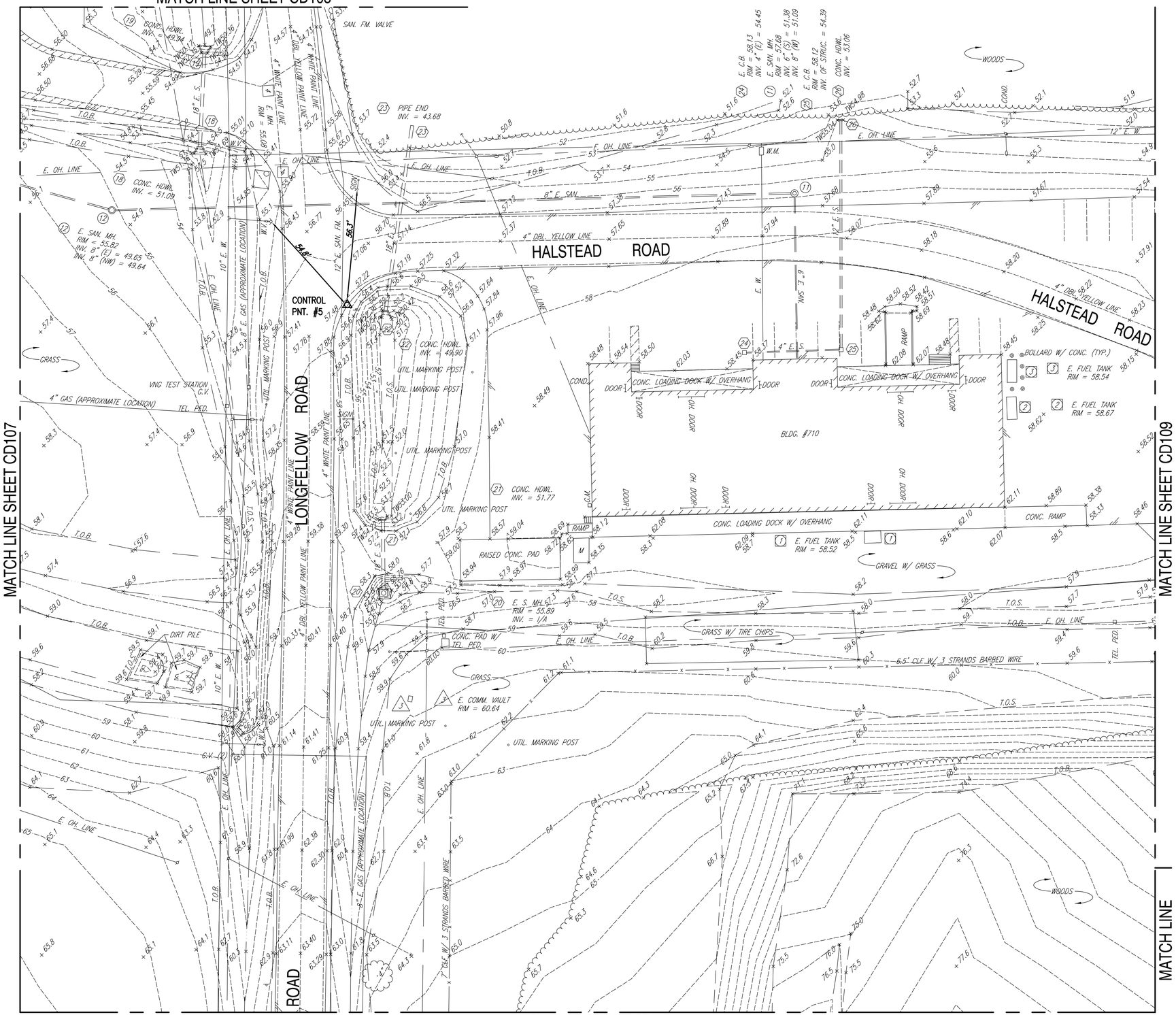
MATCH LINE SHEET CD103

MATCH LINE SHEET CD107

MATCH LINE SHEET CD109

MATCH LINE SHEET CD117

MATCH LINE SHEET CD116

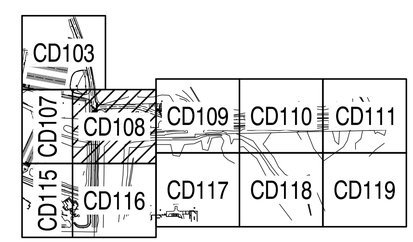


VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

SURVEY CONTROL POINT:

CONTROL POINT 5
P/K NAIL
NORTHING = 3,608,209.50
EASTING = 12,041,088.20
ELEV. = 57.41



KEY PLAN

GRAPHIC SCALE:

1" = 25' 25 0 25 50 100

DATE	DESCRIPTION	STM	APPR

NAVFAC

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SEAL

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

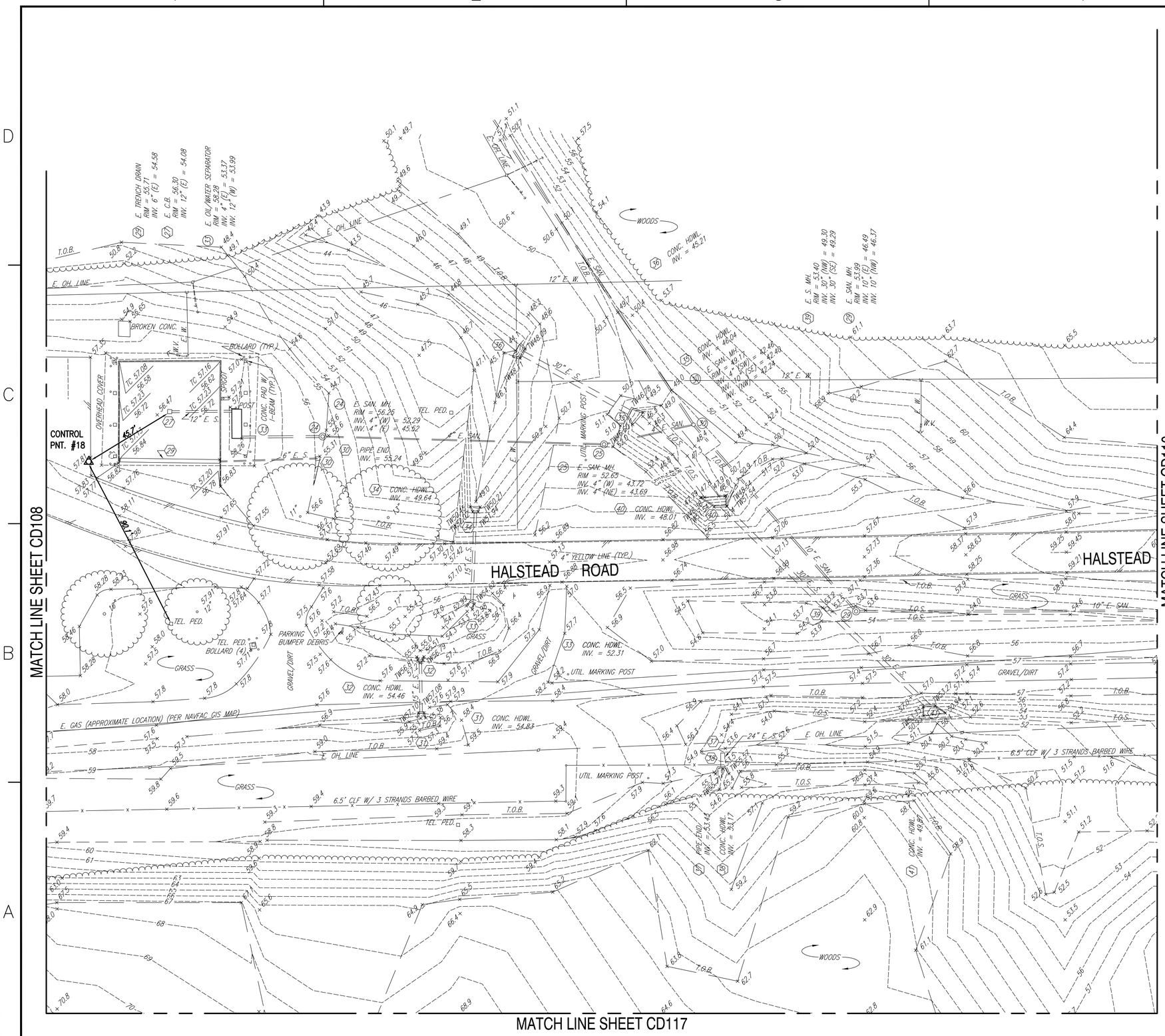
NAVFAC DRAWING NO. –

SHEET 12 OF 23

CD108

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD108.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:55am

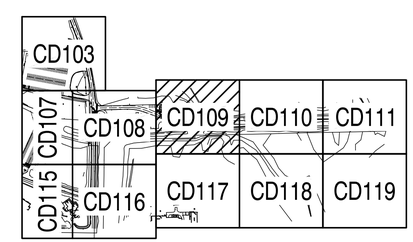


VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

SURVEY CONTROL POINTS:

CONTROL POINT 18
P/K NAIL
NORTHING = 3,608,209.93
EASTING = 12,041,501.20
ELEV. = 57.87



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	APPR	DESCRIPTION	SYM

NAVFAC

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09/01/12
LAND SURVEYOR
SEAL

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NORFOLK, VIRGINIA

A/E LOGO

SAT–TO

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DES	CAB	DR	CAD
CHK	REC	QC	CAB

NAVFAC MANAGER

REVIEWED BY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR PT

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

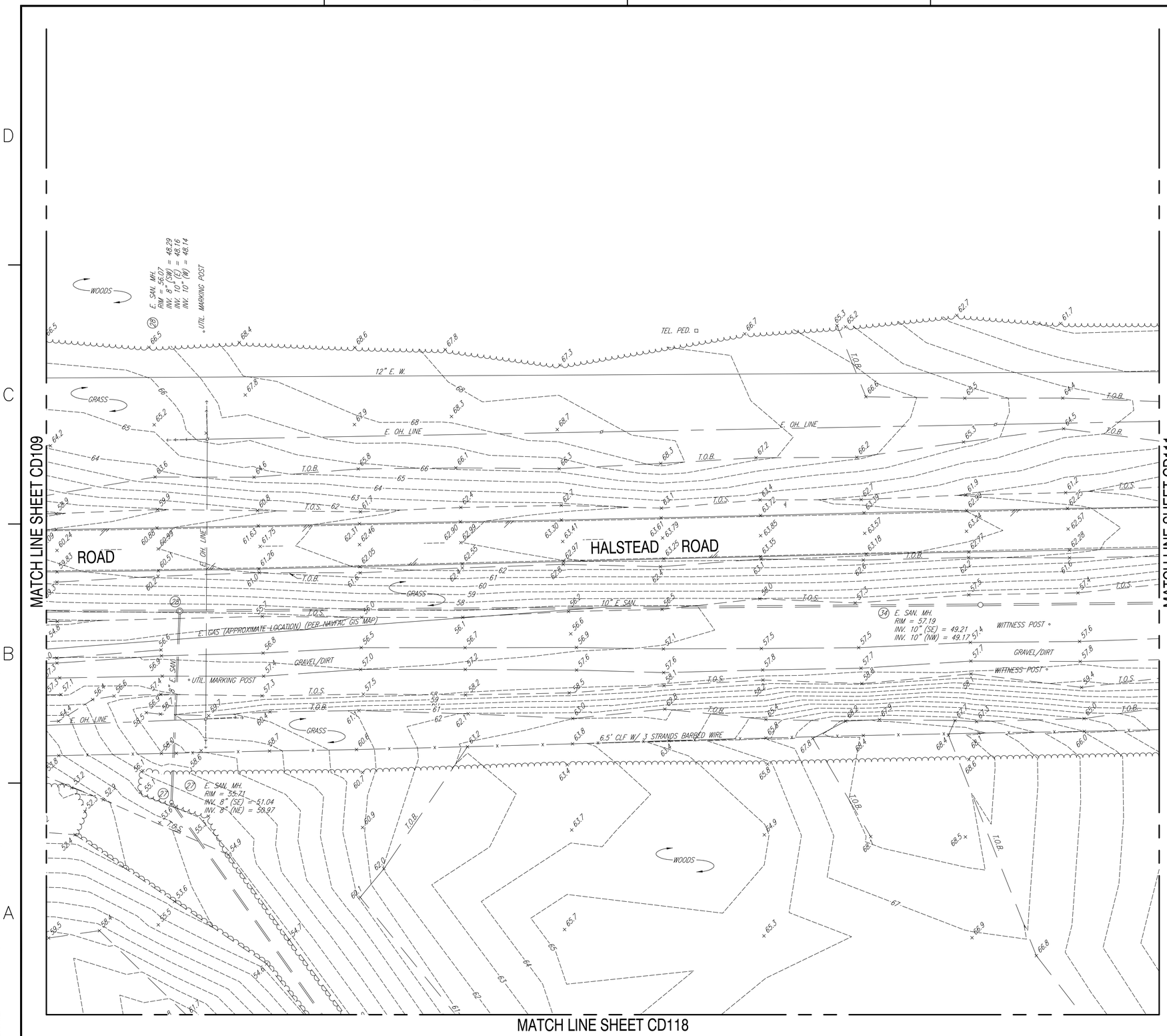
NAVFAC DRAWING NO.
–

SHEET 13 OF 23

CD109

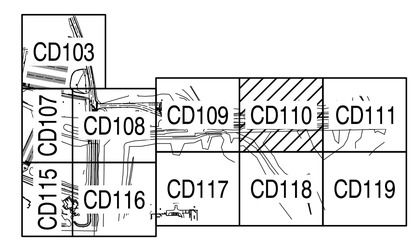
DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CADV\11067\Final Resubmittal\CD109.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:55am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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Lic. No. 838
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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

REVIEWED BY

DEPARTMENT OF THE NAVY
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HR IPT
NAVAL WEAPONS STATION
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

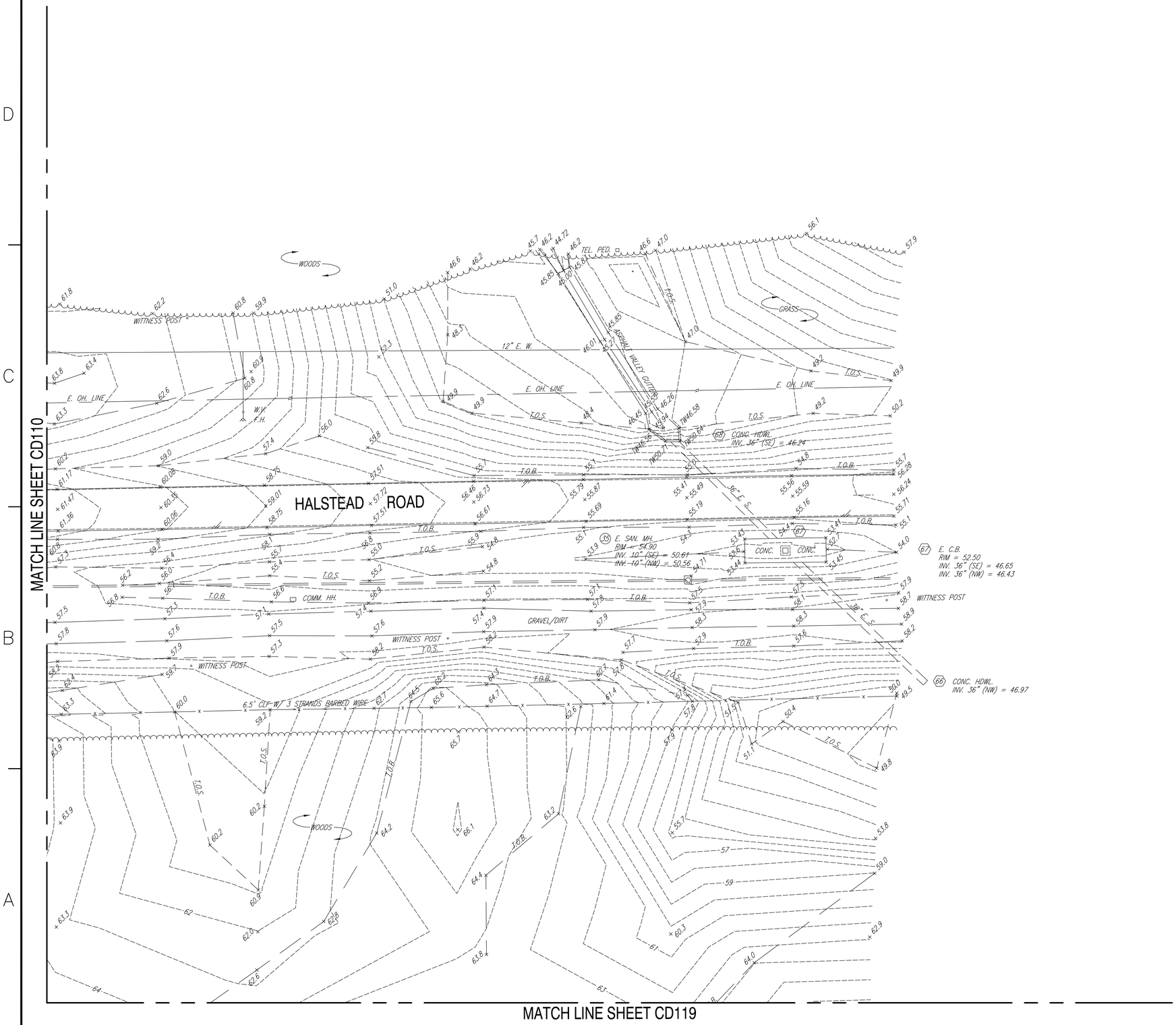
NAVFAC DRAWING NO. –

SHEET 14 OF 23

CD110

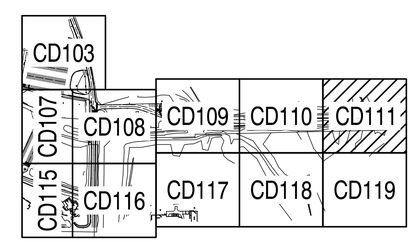
DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD110.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:56am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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SEAL

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

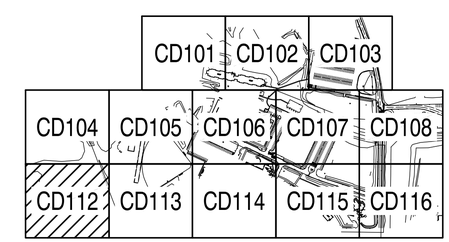
NAVFAC DRAWING NO.
–

SHEET 15 OF 23

CD111

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD111.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:56am



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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HR IPT

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

C. ALLAN BAMFORTH, JR.
Lic. No. 838
08/01/12

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LAND SURVEYOR

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NORFOLK, VIRGINIA

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. –

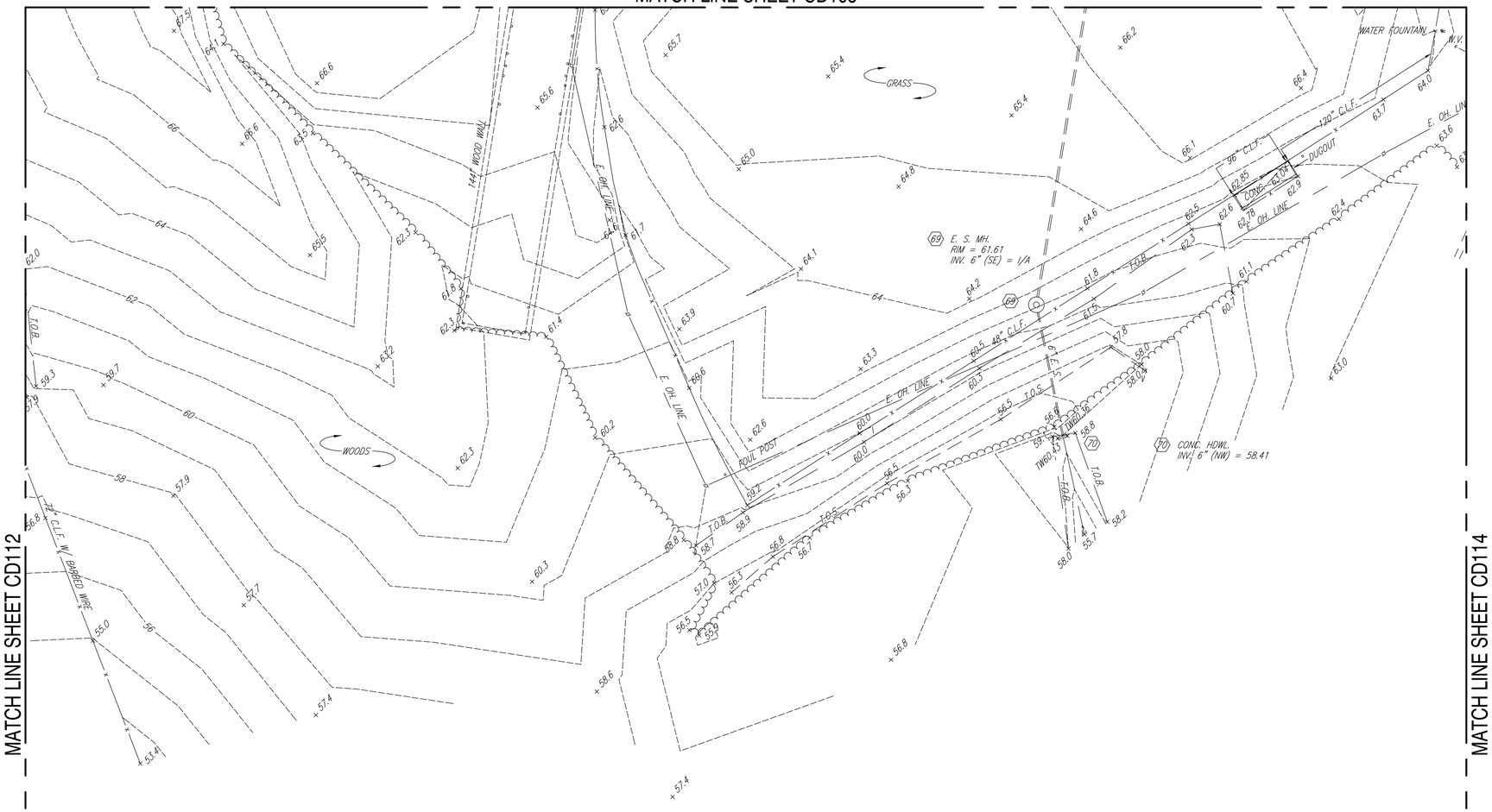
SHEET 16 OF 23

CD112

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD112.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:56am

MATCH LINE SHEET CD105

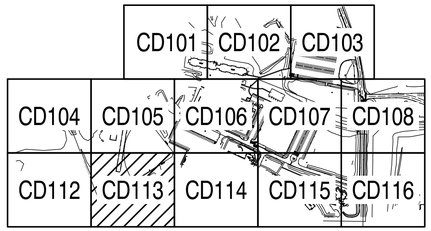


MATCH LINE SHEET CD112

MATCH LINE SHEET CD114

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

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CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

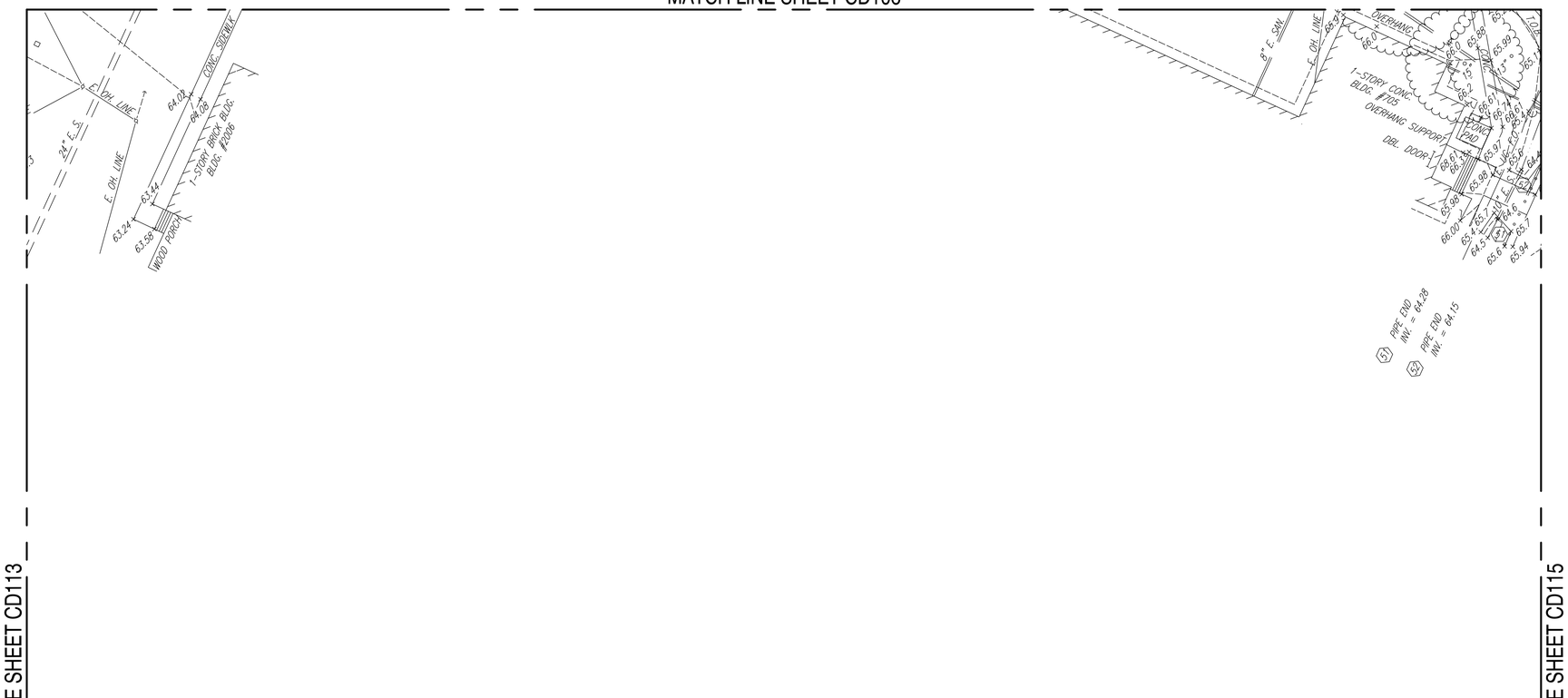
SHEET 17 OF 23

CD113

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD113.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:57am

MATCH LINE SHEET CD106

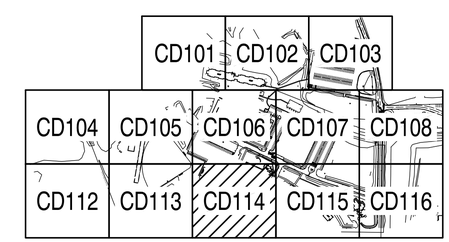


MATCH LINE SHEET CD113

MATCH LINE SHEET CD115

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. –

SHEET 18 OF 23

CD114

DRAWFORM REVISION: 15 JANUARY 2008

STM	DESCRIPTION	DATE	APPR

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD114.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:57am

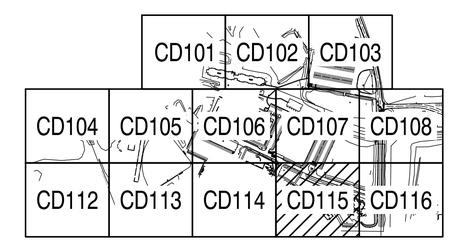
MATCH LINE SHEET CD107

MATCH LINE SHEET CD114

MATCH LINE SHEET CD116

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	APPR	DESCRIPTION	STM

NAVFAC

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NORFOLK, VIRGINIA

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DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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HR IPT

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

SHEET 19 OF 23

CD115

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD115.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:57am

MATCH LINE SHEET CD108

MATCH LINE SHEET CD115

MATCH LINE SHEET CD117

LONGFELLOW ROAD

SHUPPER DRIVE

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

CD103 | CD107 | CD108 | CD109 | CD110 | CD111 | CD115 | CD116 | CD117 | CD118 | CD119

KEY PLAN

GRAPHIC SCALE:

1" = 25' 25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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SEAL

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FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REC	QC	CAB

NAVFAC MANAGER

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DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
–

SHEET 20 OF 23

CD116

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CADV\11067\Final Resubmittal\CD116.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:57am

MATCH LINE SHEET CD109

MATCH LINE SHEET CD108

MATCH LINE SHEET CD116

MATCH LINE SHEET CD118

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N

CONC. PAD W/ BRASS DISK MARKED "NAVAL MINE DEPOT"

WITNESS POST

E. OH. LINE

E. UG. ELEC.

CONC. WALL

F.H.
W.V.

P.I.V.

CONC.

72" C.L.F.

GRAVEL

BLDG. #2062

BOLLARD
CONC. PAD W/ A.C.
BOLLARD
G.M.

FRAMED SHED

BLDG. #1976

WOODS

KEY PLAN

CD103 CD107 CD108 CD109 CD110 CD111 CD115 CD116 CD117 CD118 CD119

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

STM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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08/01/12
LAND SURVEYOR
SEAL

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A/E LOGO

SAT–TO:

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FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

REVIEWED BY

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NAVAL FACILITIES ENGINEERING COMMAND
HR IPT

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

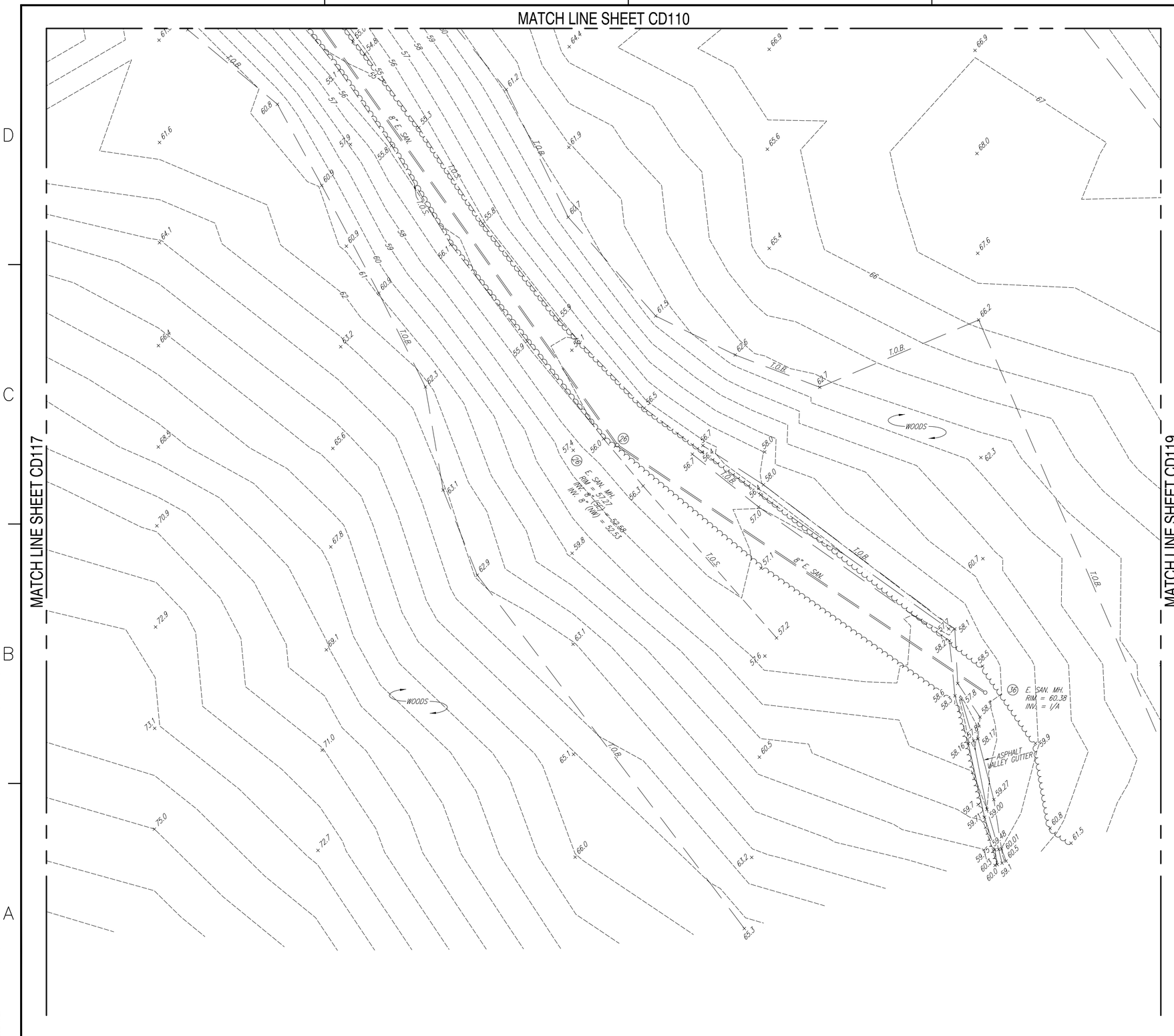
NAVFAC DRAWING NO.
–

SHEET 21 OF 23

CD117

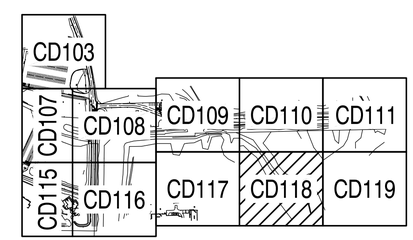
DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD117.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:58am



VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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08/01/12
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NORFOLK, VIRGINIA

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FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

REVIEWED BY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HR IPT
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION YORKTOWN, VIRGINIA

TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989

TOPOGRAPHIC SURVEY

CODE ID. NO. 80091	SIZE D
SCALE: GRAPHIC	
MAXIMO NO.	
JOB ORDER NO. 5A5010	
SPEC. NO. 1113911	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. –	
SHEET 22 OF 23	

CD118

DRAWFORM REVISION: 15 JANUARY 2008

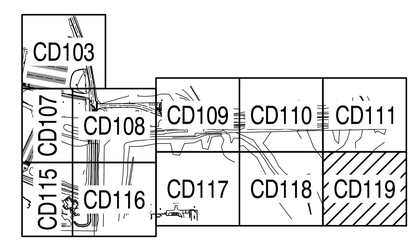
REVDATE: FILE NAME: K:\CAD\11067\Final Resubmittal\CD118.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:58am

MATCH LINE SHEET CD111

MATCH LINE SHEET CD118

VIRGINIA STATE PLANE COORDINATE SYSTEM
SOUTH ZONE (NAD 1983/93)

N



KEY PLAN

GRAPHIC SCALE:

1" = 25'

25 0 25 50 100

DATE	APPR	DESCRIPTION	STM

NAVFAC

COMMONWEALTH OF VIRGINIA
C. ALLAN BAMFORTH, JR.
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LAND SURVEYOR
SEAL

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NORFOLK, VIRGINIA

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SAT–TO:

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FOR COMMANDER NAVFAC

DES	CAB	DR	CAD
CHK	REG	QC	CAB

NAVFAC MANAGER

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HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
TOPOGRAPHICAL SURVEY DRAWINGS FOR
MILCON PROJECTS P984, 985, 986, 987 & 989
TOPOGRAPHIC SURVEY

CODE ID. NO. 80091 | SIZE D

SCALE: GRAPHIC

MAXIMO NO.

JOB ORDER NO. 5A5010

SPEC. NO. 1113911

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. –

SHEET 23 OF 23

CD119

DRAWFORM REVISION: 15 JANUARY 2008

REVDATE: FILE NAME: K:\CAD\1067\Final Resubmittal\CD119.dwg LAYOUT NAME: Layout1 PLOTTED: Wednesday, August 01, 2012 – 11:58am