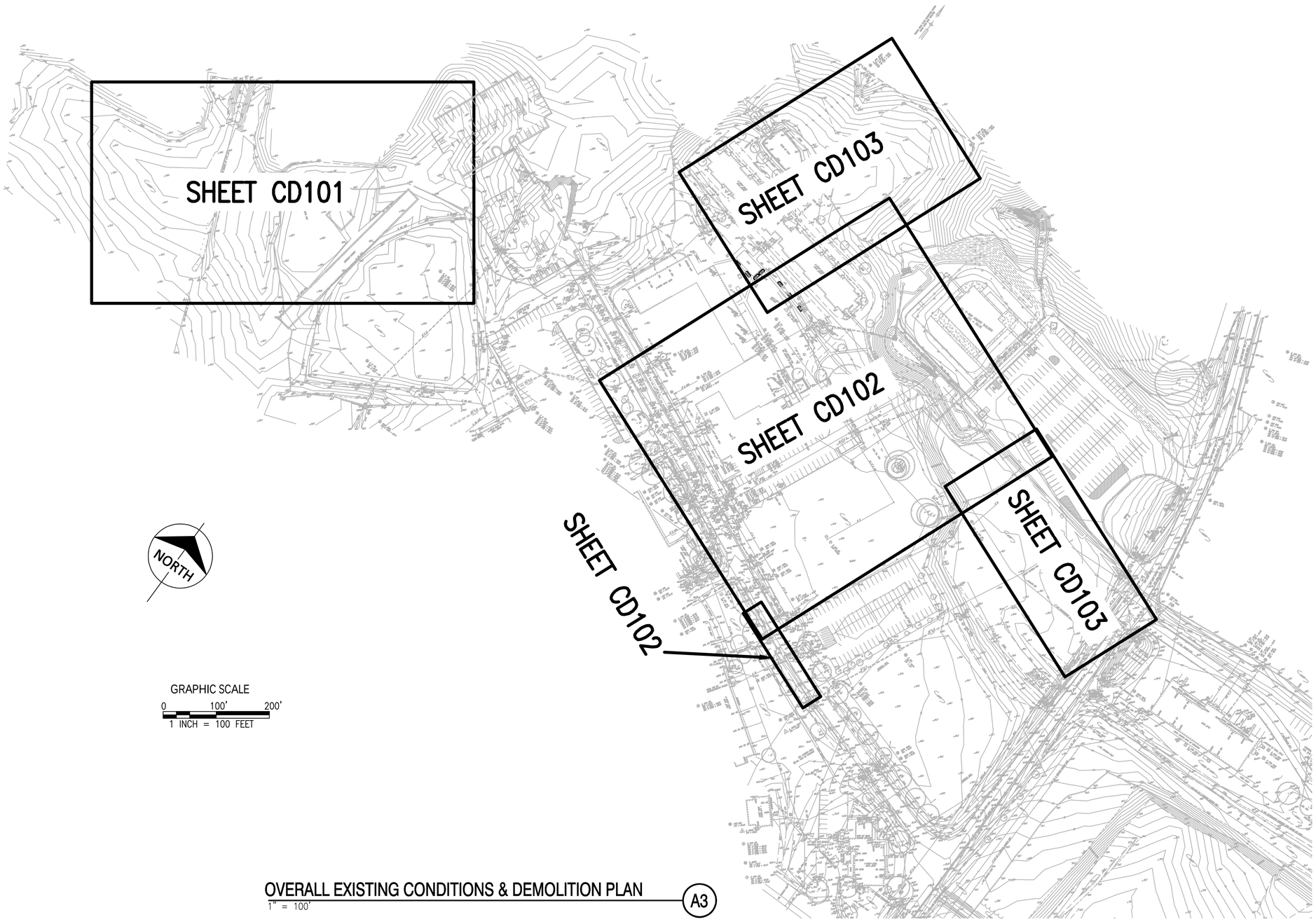

OVERALL EXISTING CONDITIONS & DEMOLITION PLAN

1" = 100'

A3

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
JON-MICHAEL C. LEMON
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AE LOGO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

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

P-985 BACHELOR ENLISTED QUARTERS

OVERALL EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO. 1113911

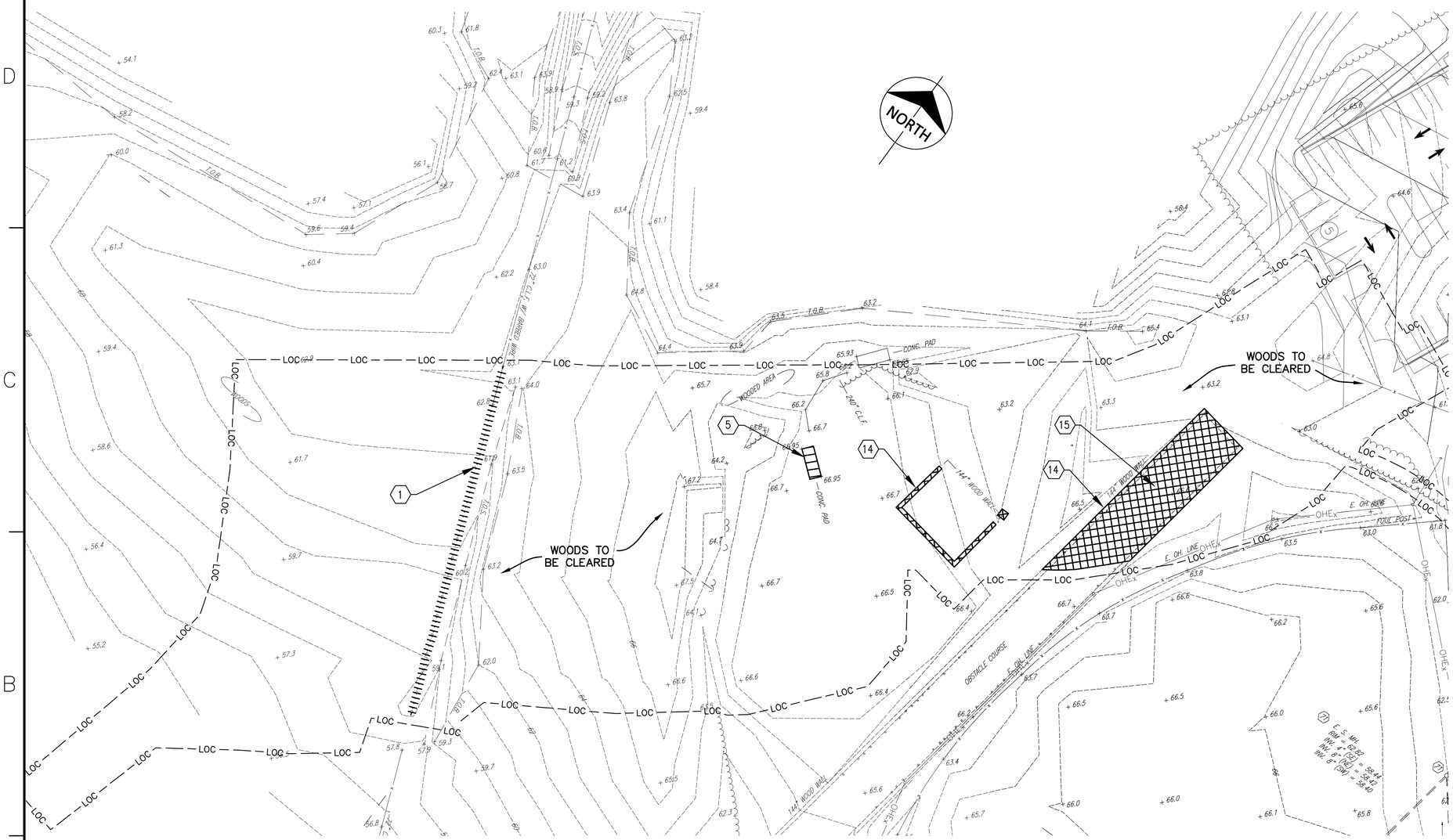
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664306

SHEET OF

CD100

DRAWFORM REVISION: 6 AUG 2007



EXISTING CONDITIONS & DEMOLITION PLAN - PARKING

1" = 30'

A3

GRAPHIC SCALE

0 30' 60'

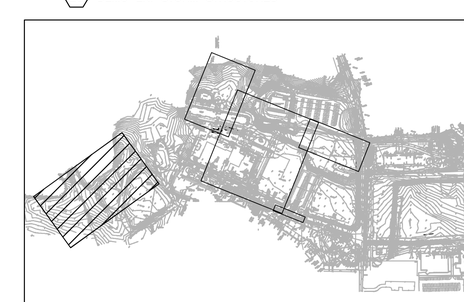
1 INCH = 30 FEET

DEMOLITION LEGEND

- DEMOLISH PAVEMENT
- DEMOLISH SITE FEATURES
- MILL AND OVERLAY PAVEMENT
- -XXXX- DEMOLISH UTILITY
- DEMOLISH FENCE, CURB, BOLLARDS, AND STRIPING
- DEMOLISH TREE
- DEMOLISH MISCELLANEOUS SITE

DEMOLTION KEYNOTES

1. DEMOLISH EX. FENCE
2. DEMOLISH EX. STORM UTILITY FROM EX. STRUCTURE 78 TO THE DEMOLITION LIMITS SHOWN.
3. DEMOLISH EX. BOLLARDS
4. REPLACE GRATE WITH SOLID COVER TO AVOID CONFLICT WITH PROPOSED S/W. ADJUST RIM TO FINAL GRADE.
5. DEMO EX. CONCRETE
6. DEMO EX. SIGN
7. DEMO EX. ASPHALT PARKING
8. DEMO EX. TREES
9. DEMO EX. STORM UTILITY AND ASSOCIATED STRUCTURES
10. RELOCATE EX. WATER UTILITY FROM PROPOSED IMPROVEMENTS
11. DEMO EX. OVERHEAD ELECTRIC WIRING
12. MAINTAIN EX. UTILITY/LIGHT POLE
13. DEMO EX. UTILITY/LIGHT POLE
14. DEMO EX. WALL
15. DEMO EX. OBSTACLE COURSE
16. DEMO EX. UNDERGROUND DUCTBANK FEEDING EX. BUILDINGS 1807 AND 2075 TO NEW MANHOLE LOCATION
17. DEMO EX. UNDERGROUND DUCTBANK FEEDING EX. BUILDING 1808 TO SECONDARY UNIT SUBSTATION LOCATED NEAR EXTERIOR EAST WALL OF EX. BUILDING 1808
18. DEMO EX. CURB AND ANY ASSOCIATED GUTTER
19. DEMO EX. BASKETBALL COURT
20. DEMO EX. SANITARY UTILITY
21. DEMO EX. GAS UTILITY. CAP EX. GAS UTILITY AT THE EASTERN POINT OF THIS DEMOLITION WORK.
22. EX. OVERHEAD ELECTRIC TO BE DEMOLISHED UNDER THE P989 ARMORY PROJECT BY OTHERS. COORDINATE WORK.
23. MILL AND OVERLAY PAVEMENT
24. ERADICATE EX. PAVEMENT STRIPING
25. DEMO EX. STORM STRUCTURES



SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
JON-MICHAEL C. LEMON
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05/23/2014
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AE LOGO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES SM	DRW SM	CHK JL
PM	MMP	
BRANCH MANAGER	BDB	
CHIEF ENG/ARCH	RLJ/CRB	
FIRE PROTECTION	DAS	

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

P-985 BACHELOR ENLISTED QUARTERS

EXISTING CONDITIONS & DEMOLITION PLAN – PARKING

SCALE: AS NOTED

EPROJECT NO. 1113911

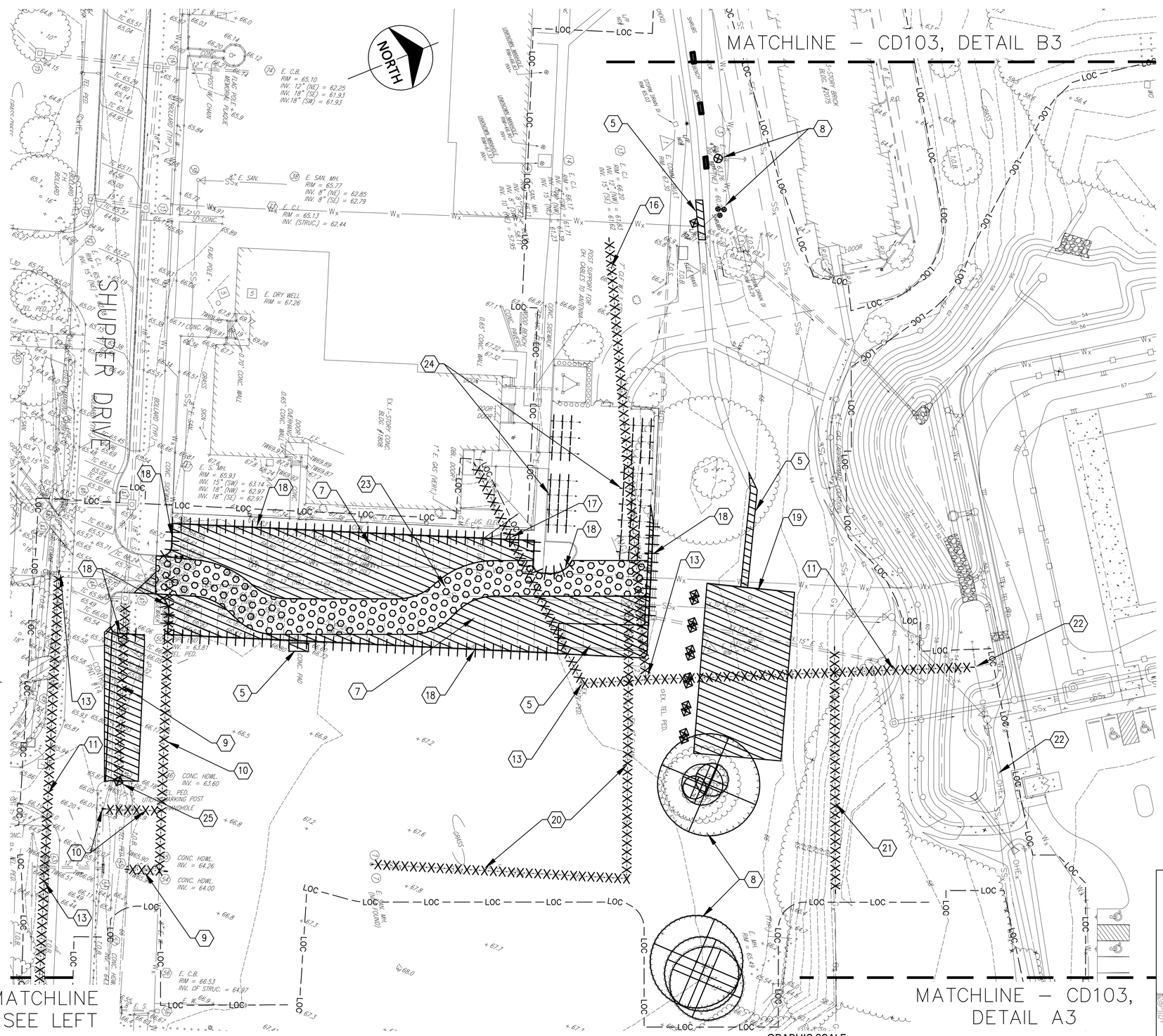
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664307

SHEET OF

CD101

DRAWFORM REVISION: 6 AUG 2007



DEMOLITION LEGEND

- DEMOLISH PAVEMENT
- DEMOLISH SITE FEATURES
- MILL AND OVERLAY PAVEMENT
- -XXXX- DEMOLISH UTILITY
- -|-|-|- DEMOLISH FENCE, CURB, BOLLARDS, AND STRIPING
- DEMOLISH TREE
- DEMOLISH MISCELLANEOUS SITE

DEMOLTION KEYNOTES

1. DEMOLISH EX. FENCE
2. DEMOLISH EX. STORM UTILITY FROM EX. STRUCTURE 78 TO THE DEMOLITION LIMITS SHOWN.
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19. DEMO EX. BASKETBALL COURT
20. DEMO EX. SANITARY UTILITY
21. DEMO EX. GAS UTILITY. CAP EX. GAS UTILITY AT THE EASTERN POINT OF THIS DEMOLITION WORK.
22. EX. OVERHEAD ELECTRIC TO BE DEMOLISHED UNDER THE P989 ARMORY PROJECT BY OTHERS. COORDINATE WORK.
23. MILL AND OVERLAY PAVEMENT
24. ERADICATE EX. PAVEMENT STRIPING
25. DEMO EX. STORM STRUCTURES

EXISTING CONDITIONS & DEMOLITION PLAN - BEQ

1" = 30'

A3

GRAPHIC SCALE

0 30' 60'

1 INCH = 30 FEET

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM			MMP
BRANCH MANAGER			BDB
CHIEF ENG/ARCH			RLJ/CRB
FIRE PROTECTION			DAS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS, PT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION - NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-985 BACHELOR ENLISTED QUARTERS

EXISTING CONDITIONS & DEMOLITION PLAN – BEQ

SCALE: AS NOTED

EPROJECT NO. 1113911

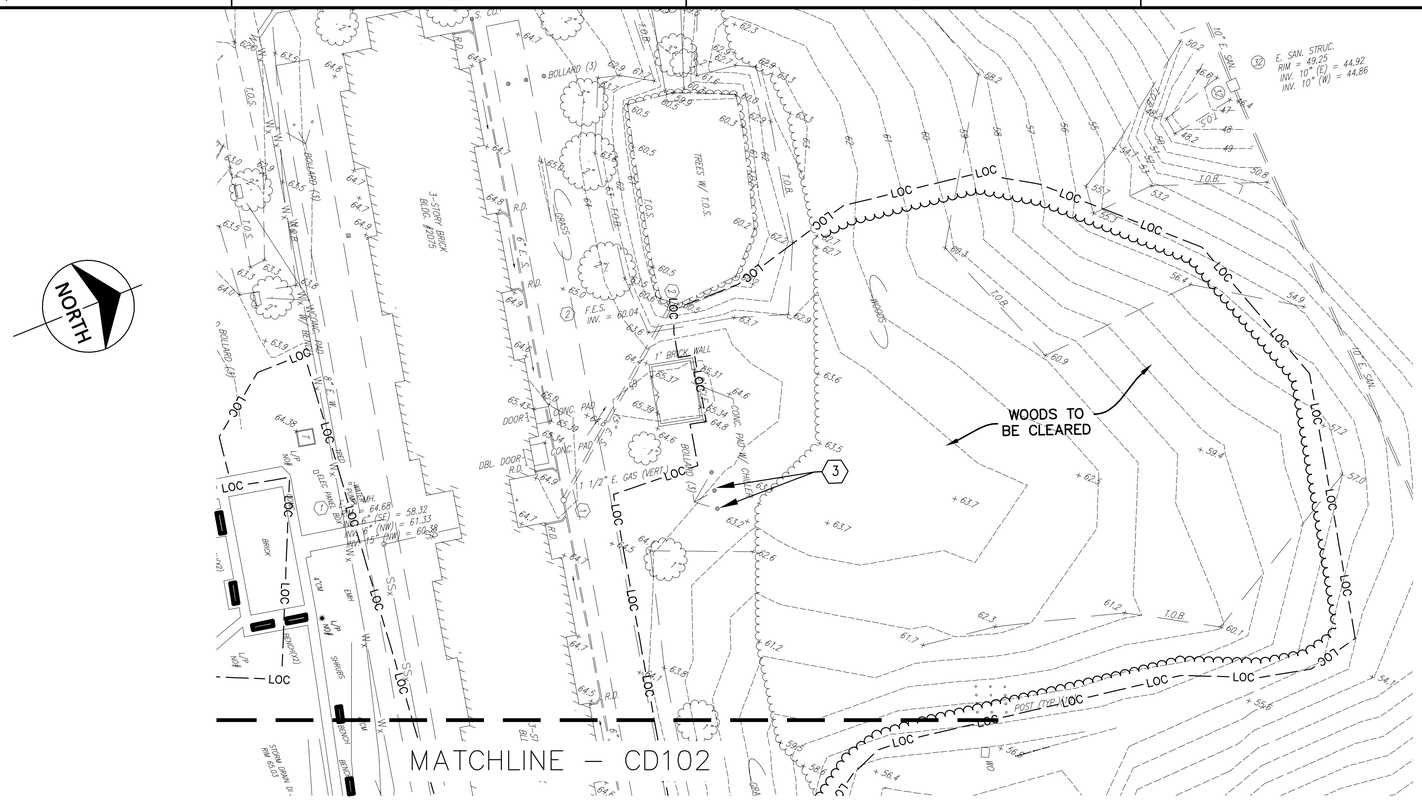
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664308

SHEET OF

CD102

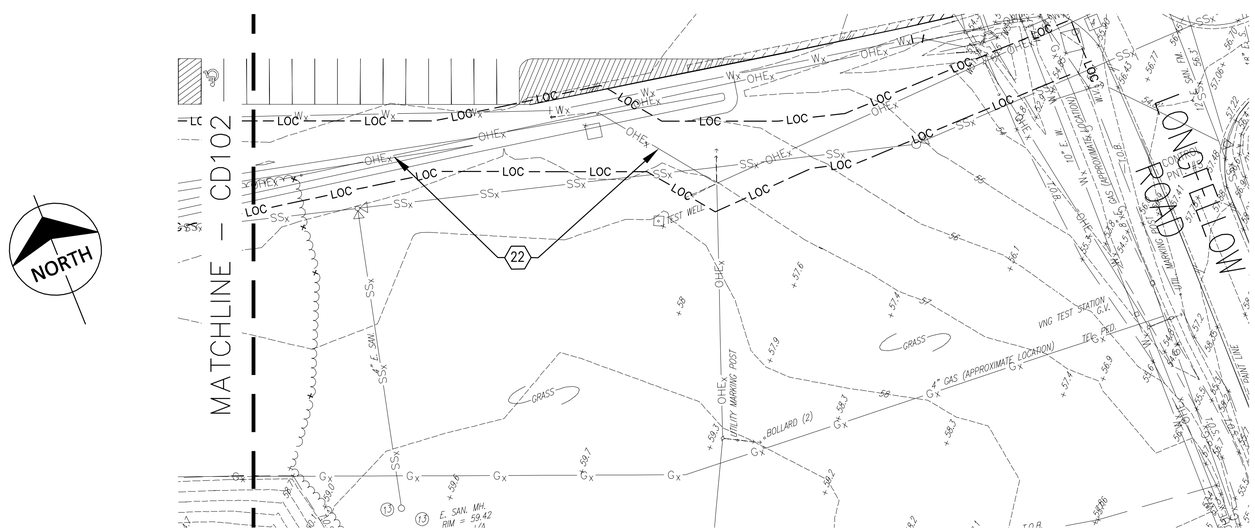
DRAWFORM REVISION: 6 AUG 2007



EXISTING CONDITIONS & DEMOLITION PLAN - MARTIAL ARTS PIT (B3)

1" = 30'

GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET



EXISTING CONDITIONS & DEMOLITION PLAN - GAS UTILITY (A3)

1" = 30'

GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET

DEMOLITION LEGEND

- DEMOLISH PAVEMENT
- DEMOLISH SITE FEATURES
- MILL AND OVERLAY PAVEMENT
- DEMOLISH UTILITY
- DEMOLISH FENCE, CURB, BOLLARDS, AND STRIPING
- DEMOLISH TREE
- DEMOLISH MISCELLANEOUS SITE

DEMOLTION KEYNOTES

1. DEMOLISH EX. FENCE
2. DEMOLISH EX. STORM UTILITY FROM EX. STRUCTURE 78 TO THE DEMOLITION LIMITS SHOWN.
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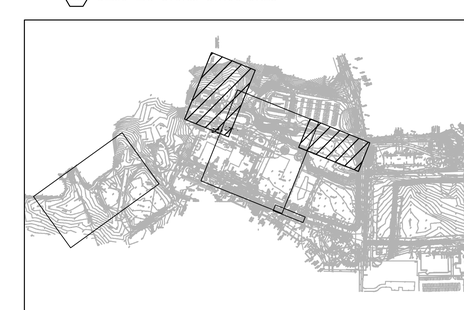
23. MILL AND OVERLAY PAVEMENT
24. ERADICATE EX. PAVEMENT STRIPING
25. DEMO EX. STORM STRUCTURES



SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
JON-MICHAEL C. LEMON
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AE LOGO

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FOR COMMANDER NAVFAC

ACTIVITY

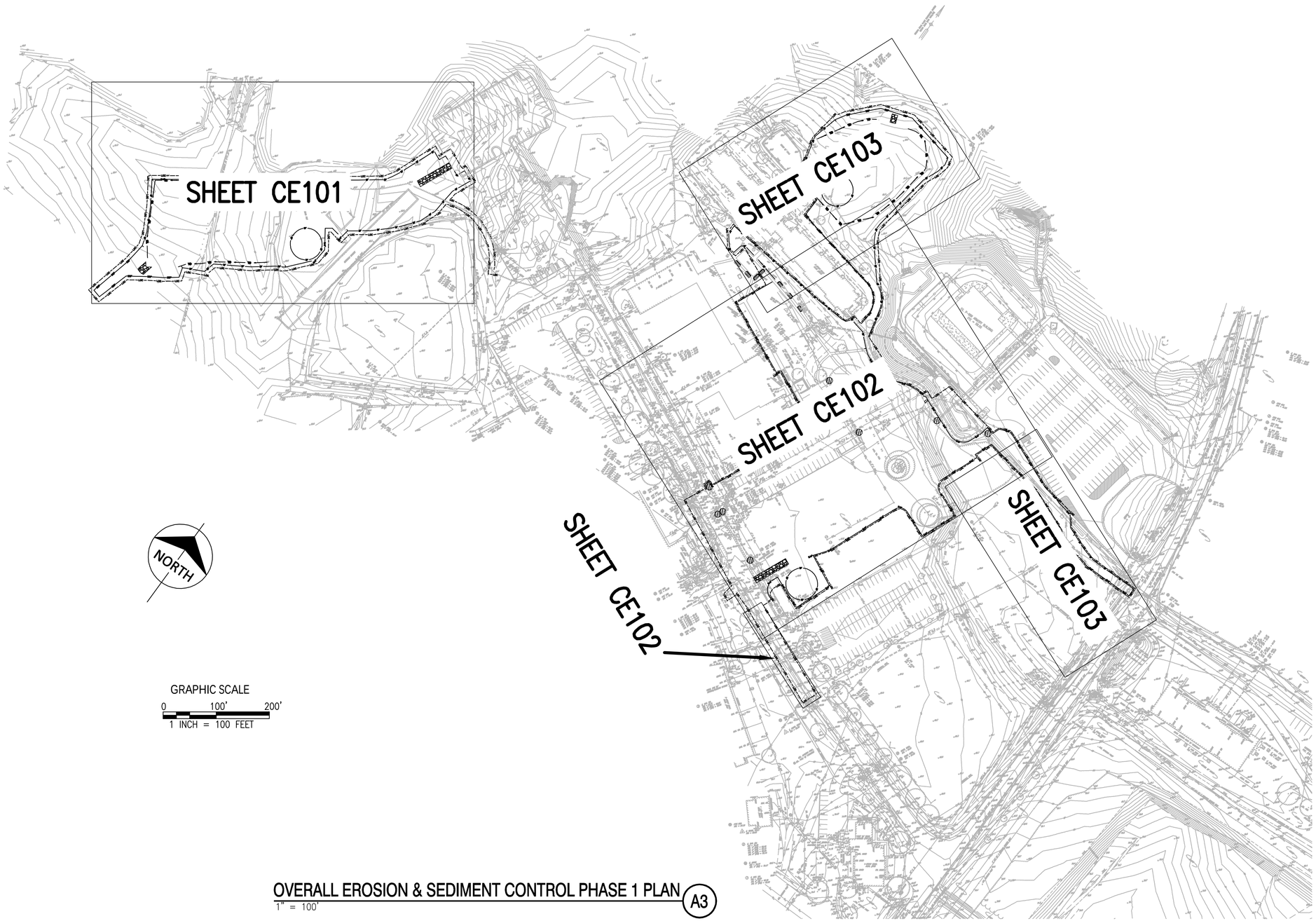
SATISFACTORY TO DATE

DES	SM	DRW	SM	CHK	JL
PM	MMP				
BRANCH MANAGER	BDB				
CHIEF ENG/ARCH	RLJ/CRB				
FIRE PROTECTION	DAS				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-985 BACHELOR ENLISTED QUARTERS
EXISTING CONDITIONS & DEMOLITION PLAN – MARTIAL ARTS

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085-08-D-9739
NAVFAC DRAWING NO. 12664309
SHEET OF
CD103

DRAWFORM REVISION: 6 AUG 2007



OVERALL EROSION & SEDIMENT CONTROL PHASE 1 PLAN (A3)

1" = 100'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-985 BACHELOR ENLISTED QUARTERS

OVERALL EROSION & SEDIMENT CONTROL PHASE 1 PLAN

SCALE: AS NOTED

EPROJECT NO. 1113911

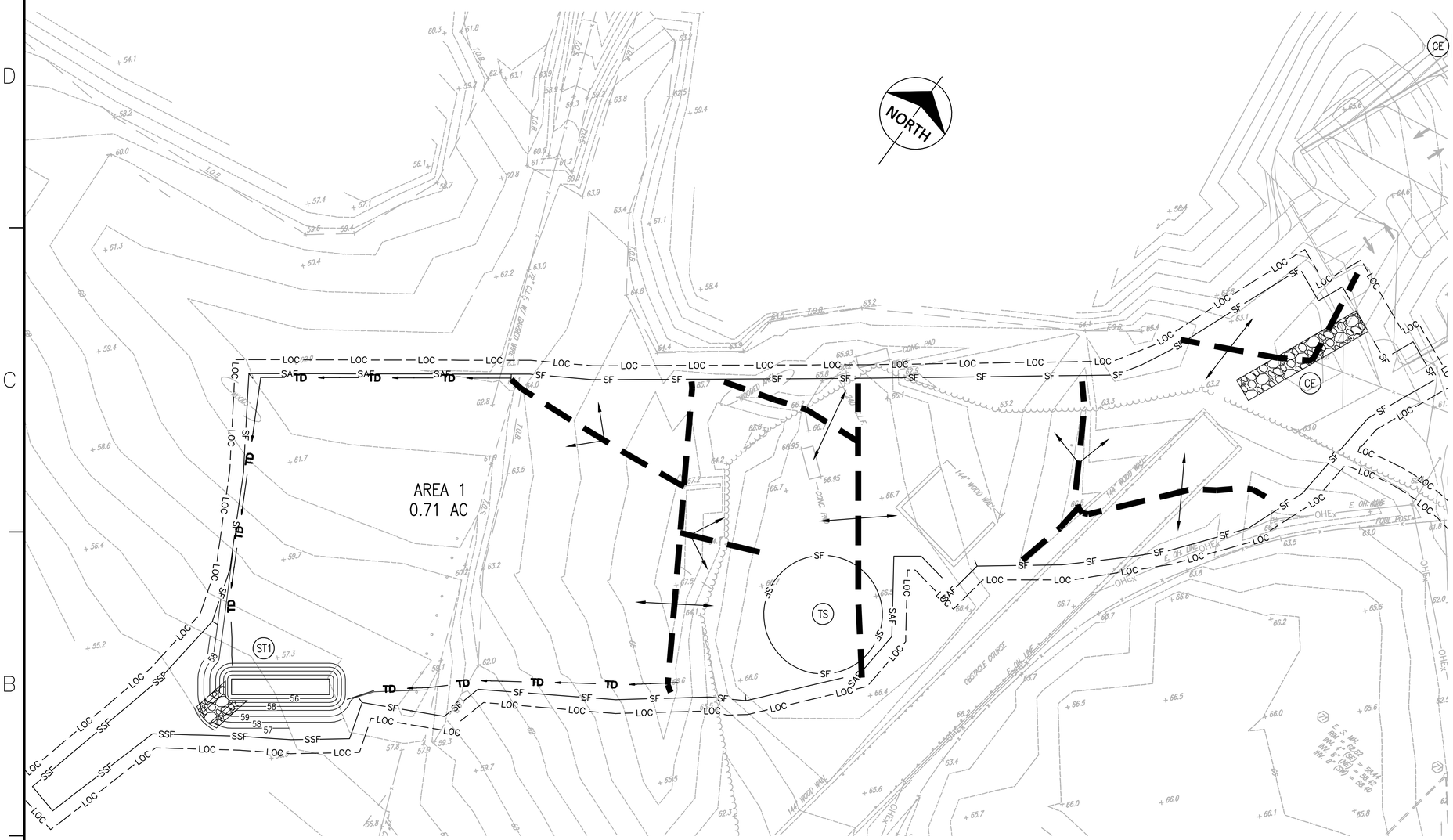
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664310

SHEET OF

CE100

DRAWFORM REVISION: 6 AUG 2007



EROSION & SEDIMENT CONTROL PHASE 1 PLAN - PARKING (A3)

1" = 30'

GRAPHIC SCALE

0 30' 60'

1 INCH = 30 FEET

EROSION LEGEND

- SA — TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
- CE — TEMPORARY CONSTRUCTION ENTRANCE SEE SHEET CE501 DETAIL A5
- S — TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
- IP — TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
- CIP — TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
- TD — TEMPORARY DIVERSION DIKE SEE SHEET CE503 DETAIL A5
- ST# — TEMPORARY SEDIMENT TRAP SEE SHEET CE503 DETAIL A2
- OP# — TEMPORARY OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
- CD# — TEMPORARY ROCK CHECK DAMS SEE SHEET CE503 DETAIL A5
- TS — TEMPORARY TOPSOIL STOCKPILE
- LOC — LIMITS OF CONSTRUCTION
- DRAINAGE DIVIDE
- SS — TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
- TEMPORARY CULVERT

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

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

P-985 BACHELOR ENLISTED QUARTERS

EROSION & SEDIMENT CONTROL PHASE 1 PLAN – PARKING

SCALE: AS NOTED

EPROJECT NO. 1113911

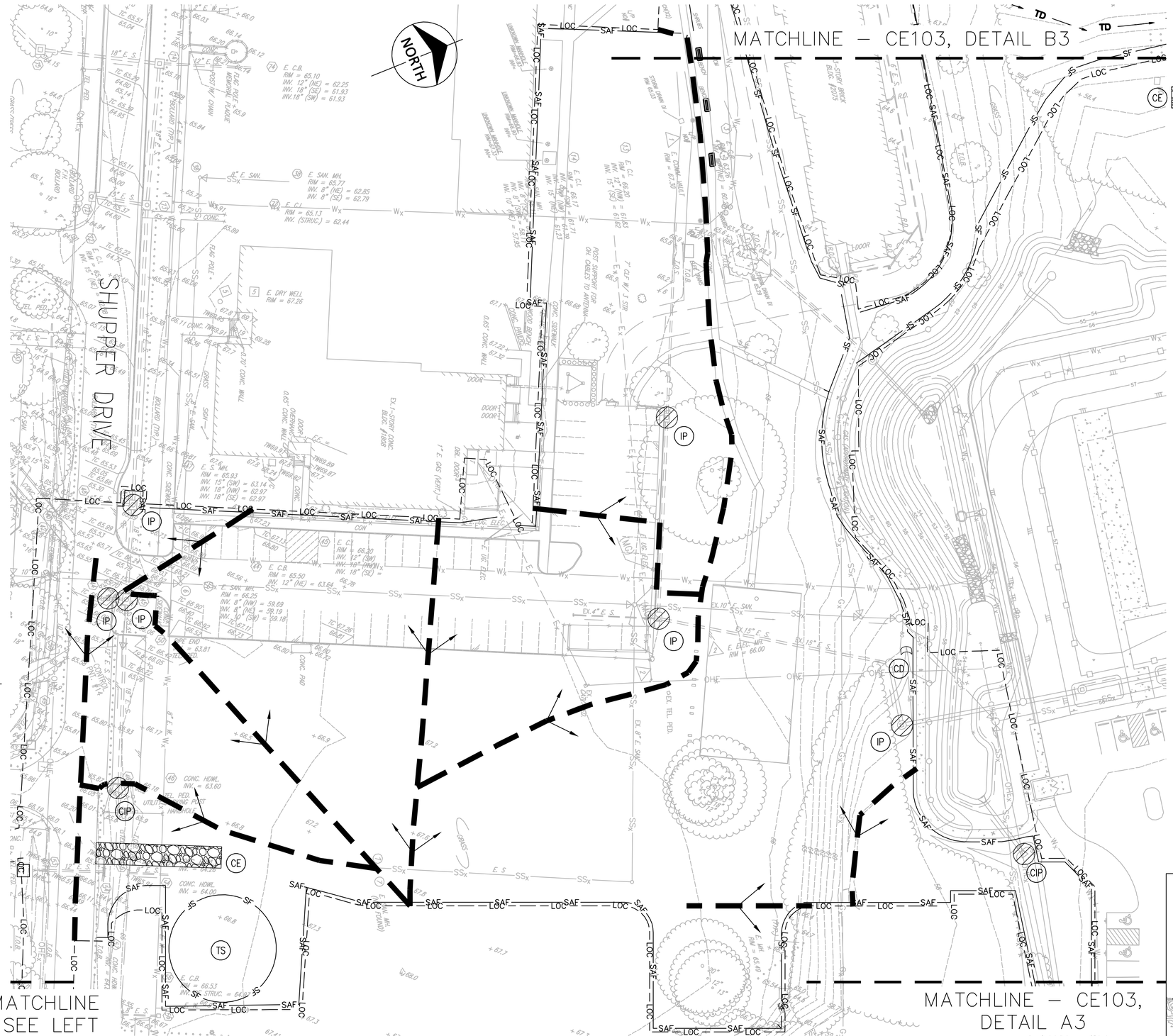
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664311

SHEET OF

CE101

DRAWFORM REVISION: 6 AUG 2007

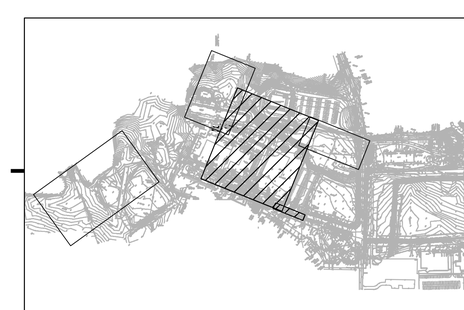


EROSION LEGEND

SA	TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
CE	TEMPORARY CONSTRUCTION ENTRANCE SEE SHEET CE501 DETAIL A5
S	TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
IP	TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
CIP	TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
TD	TEMPORARY DIVERSION DIKE SEE SHEET CE503 DETAIL A5
ST#	TEMPORARY SEDIMENT TRAP SEE SHEET CE503 DETAIL A2
OP#	TEMPORARY OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
CD#	TEMPORARY ROCK CHECK DAMS SEE SHEET CE503 DETAIL A5
TS	TEMPORARY TOPSOIL STOCKPILE
LOC	LIMITS OF CONSTRUCTION
	DRAINAGE DIVIDE
SS	TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
	TEMPORARY CULVERT

NOTES

1. SEE SITE ELECTRICAL PLANS FOR PROPOSED COMMUNICATION UTILITY WORK ON SOUTH SIDE OF SHUPPER DRIVE. TO PREVENT SILTATION FROM ENTERING THE EXISTING STORM SEWER SYSTEM, SILT FENCE SHALL BE PROVIDED FIVE FEET FROM THE TRENCH LINE ON THE DOWNHILL SIDE.



EROSION & SEDIMENT CONTROL PHASE 1 PLAN - BEQ

A3

1" = 30'

GRAPHIC SCALE

0 30' 60'

1 INCH = 30 FEET

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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AE LOGO

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ACTIVITY

SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-985 BACHELOR ENLISTED QUARTERS

EROSION & SEDIMENT CONTROL PHASE 1 PLAN – BEQ

SCALE: AS NOTED

EPROJECT NO. 1113911

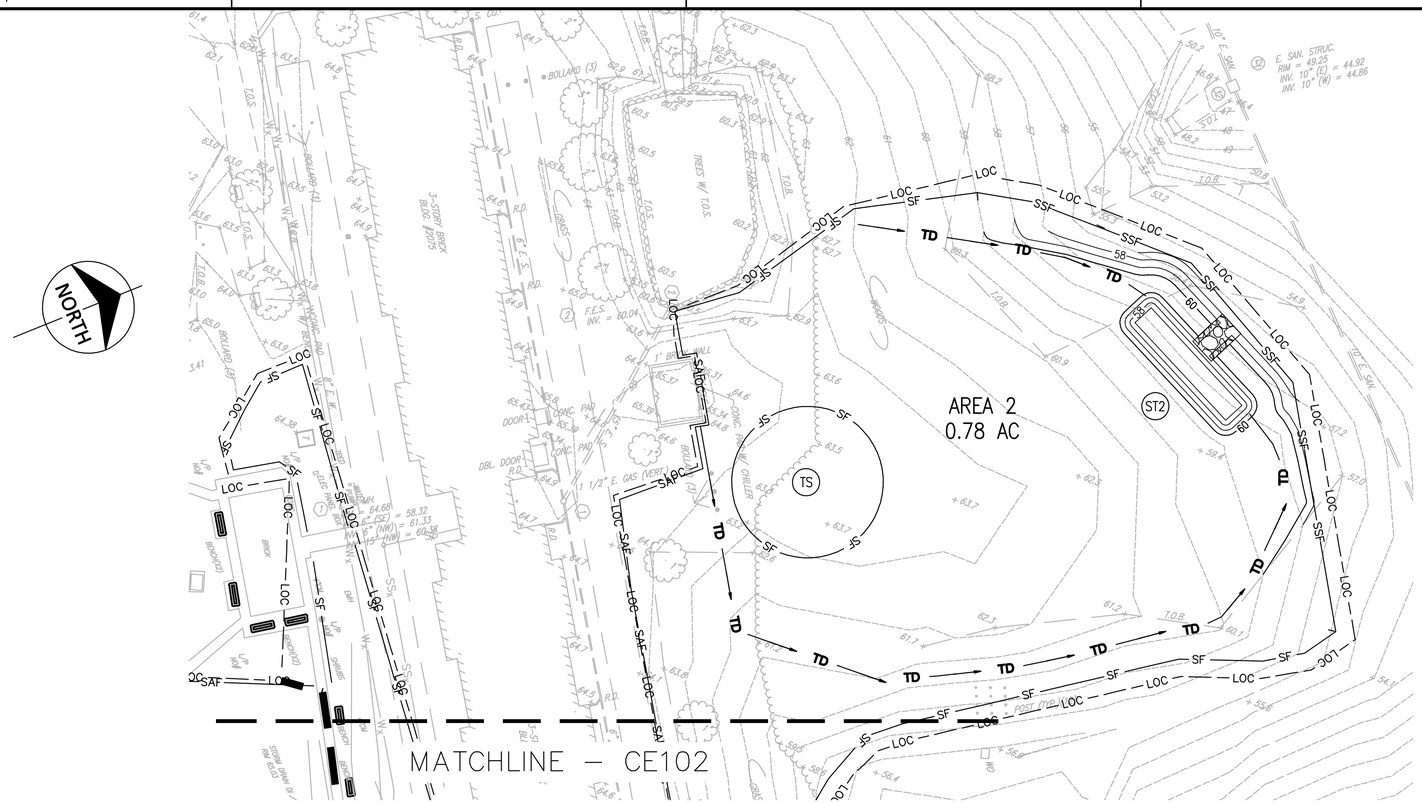
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664312

SHEET OF

CE102

DRAWFORM REVISION: 6 AUG 2007



EROSION & SEDIMENT CONTROL PHASE 1 PLAN - MARTIAL ARTS PIT (B3)

1" = 30'

GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET

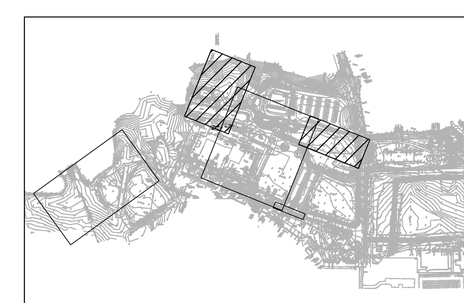
EROSION & SEDIMENT CONTROL PHASE 1 PLAN - GAS UTILITY (A3)

1" = 30'

GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET

EROSION LEGEND

- SA — TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
- CE — TEMPORARY CONSTRUCTION ENTRANCE SEE SHEET CE501 DETAIL A5
- S — TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
- IP — TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
- CIP — TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
- TD — TEMPORARY DIVERSION DIKE SEE SHEET CE503 DETAIL A5
- ST# — TEMPORARY SEDIMENT TRAP SEE SHEET CE503 DETAIL A2
- OP# — TEMPORARY OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
- CD# — TEMPORARY ROCK CHECK DAMS SEE SHEET CE503 DETAIL A5
- TS — TEMPORARY TOPSOIL STOCKPILE
- LOC — LIMITS OF CONSTRUCTION
- DRAINAGE DIVIDE
- SS — TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
- TEMPORARY CULVERT



SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
JON-MICHAEL C. LEMON
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05/23/2014
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AE LOGO

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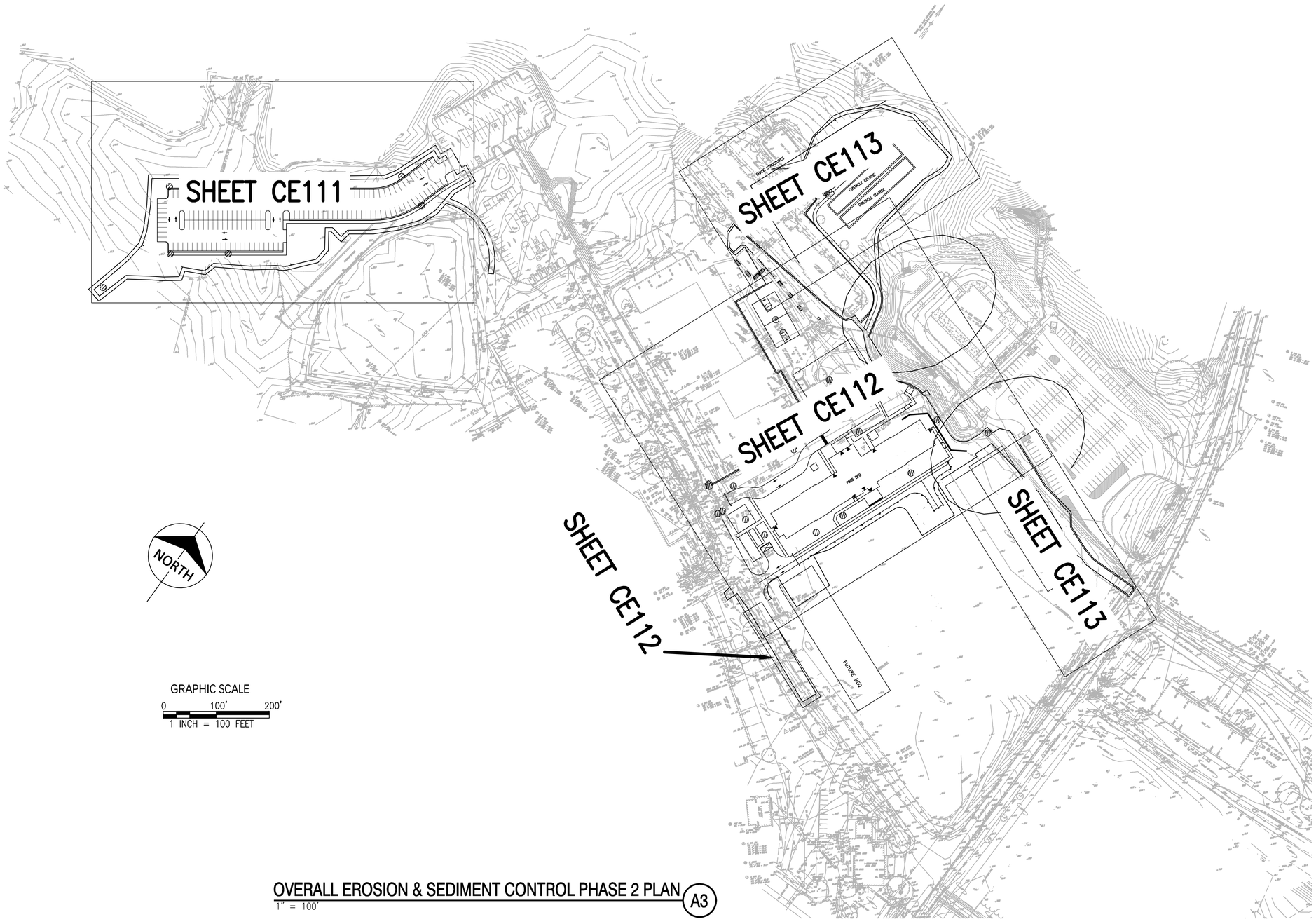
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HAMPTON ROADS IPT
NAVAL STATION ~ NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-985 BACHELOR ENLISTED QUARTERS
EROSION & SEDIMENT CONTROL PHASE 1 PLAN–MARTIAL ARTS

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085-08-D-9739
NAVFAC DRAWING NO. 12664313
SHEET OF
CE103

DRAWFORM REVISION: 8 AUG 2007



OVERALL EROSION & SEDIMENT CONTROL PHASE 2 PLAN (A3)

1" = 100'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	SM	DRW SM	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

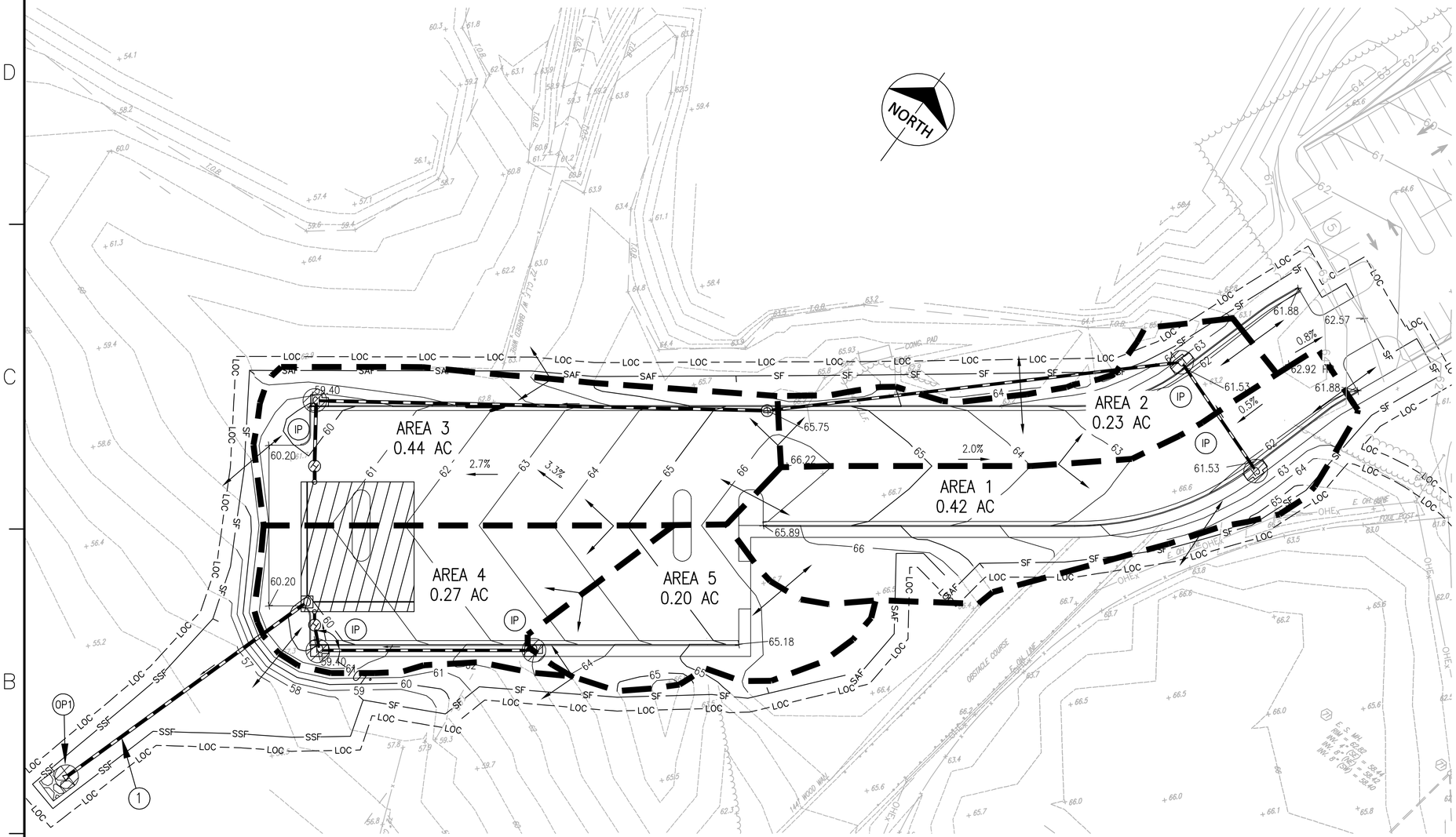
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION – NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-985 BACHELOR ENLISTED QUARTERS

OVERALL EROSION & SEDIMENT CONTROL PHASE 2 PLAN

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085-08-D-9739
NAVFAC DRAWING NO. 12664314
SHEET OF
CE110

DRAWFORM REVISION: 6 AUG 2007



EROSION & SEDIMENT CONTROL PHASE 2 PLAN - PARKING (A3)

1" = 30'

GRAPHIC SCALE

0 30' 60'

1 INCH = 30 FEET

EROSION LEGEND

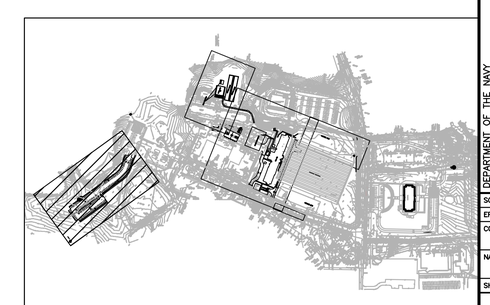
—SA—	TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
—S—	TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
IP	TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
CIP	TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
OP#	PERMANENT OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
— LOC —	LIMITS OF CONSTRUCTION
	DRAINAGE DIVIDE
—SS—	TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
	TEMPORARY CULVERT

KEY NOTES

1. FINAL STORMWATER OUTFALL LOCATIONS AND ELEVATIONS ARE PENDING COMPLETION OF FIELD SURVEY.

SITE DISTURBANCE AREAS (AREAS WITHIN LOC)

PARKING (LOC AREA ON SHEET CE111)	:2.18 AC
BEQ (LOC AREA ON SHEET CE112)	:4.44 AC
MARTIAL ARTS & GAS UTILITY (LOC AREA ON SHEET CE113)	:1.31 AC
TOTAL	:7.93 AC



MKS	DESCRIPTION	DATE	APPR

NAVFAC

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DES	SM	DRW SM	CHK JL
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BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

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

P-985 BACHELOR ENLISTED QUARTERS

EROSION & SEDIMENT CONTROL PHASE 2 PLAN – PARKING

SCALE: AS NOTED

EPROJECT NO. 1113911

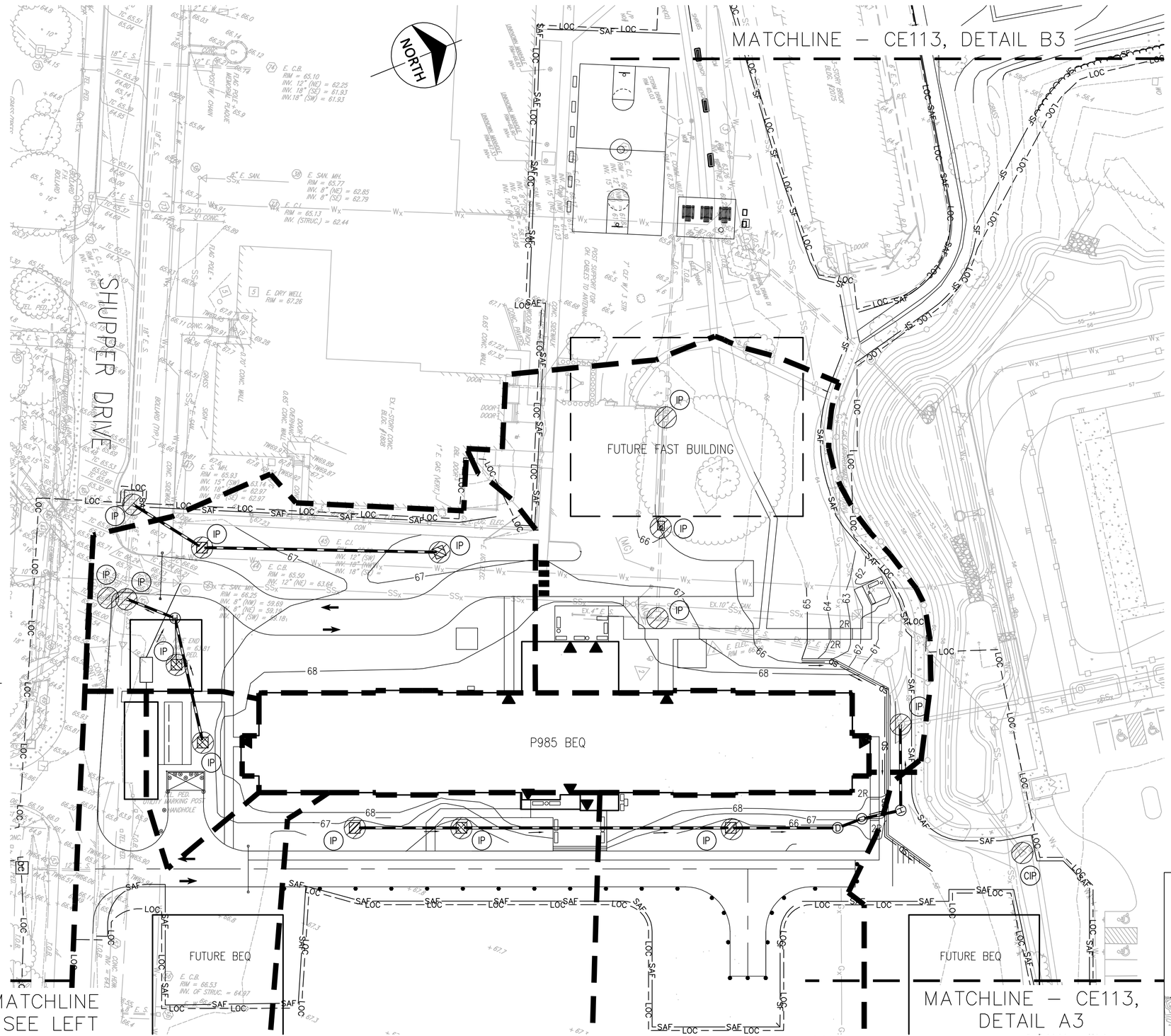
CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664315

SHEET OF

CE111

DRAWFORM REVISION: 6 AUG 2007



EROSION & SEDIMENT CONTROL PHASE 2 PLAN - BEQ (A3)

1" = 30'

GRAPHIC SCALE

0 30' 60'

1 INCH = 30 FEET

EROSION LEGEND

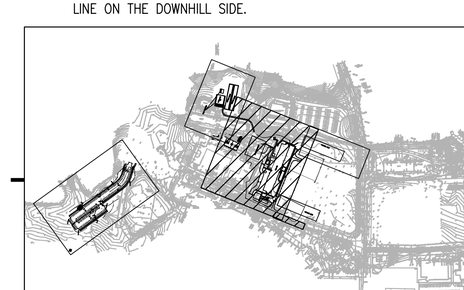
—SA—	TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
—S—	TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
IP	TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
CIP	TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
OP#	PERMANENT OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
— LOC —	LIMITS OF CONSTRUCTION
	DRAINAGE DIVIDE
—SS—	TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
	TEMPORARY CULVERT

SITE DISTURBANCE AREAS (AREAS WITHIN LOC)

PARKING (LOC AREA ON SHEET CE111)	:2.18 AC
BEQ (LOC AREA ON SHEET CE112)	:4.44 AC
MARTIAL ARTS & GAS UTILITY (LOC AREA ON SHEET CE113)	:1.31 AC
TOTAL	:7.93 AC

NOTES

1. SEE SITE ELECTRICAL PLANS FOR PROPOSED COMMUNICATION UTILITY WORK ON SOUTH SIDE OF SHUPPER DRIVE. TO PREVENT SILTATION FROM ENTERING THE EXISTING STORM SEWER SYSTEM, SILT FENCE SHALL BE PROVIDED FIVE FEET FROM THE TRENCH LINE ON THE DOWNHILL SIDE.



SYM	DESCRIPTION	DATE	APPR

NAVFAC

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FIRE PROTECTION			DAS

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

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-985 BACHELOR ENLISTED QUARTERS

EROSION & SEDIMENT CONTROL PHASE 2 PLAN – BEQ

SCALE: AS NOTED

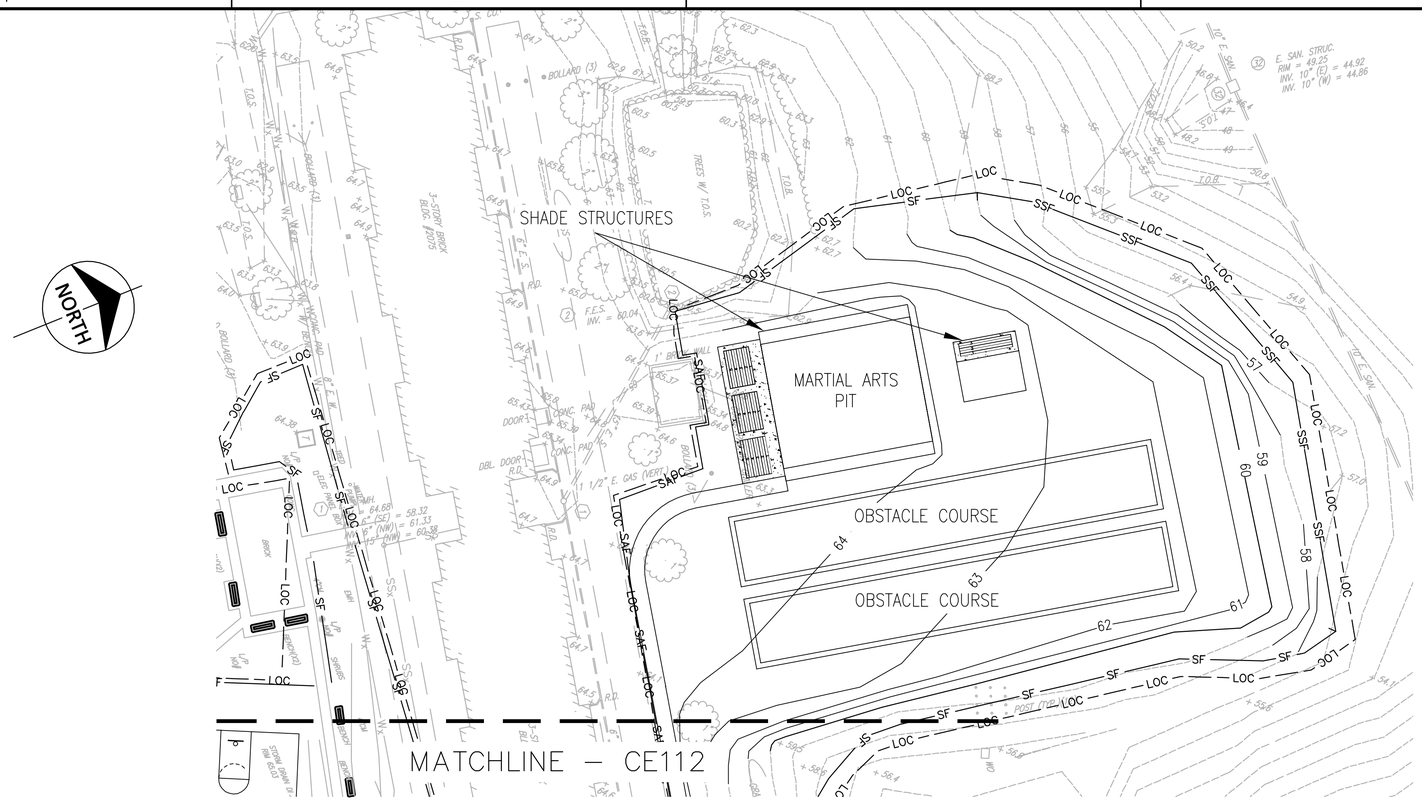
EPROJECT NO. 1113911

CONSTR. CONTR. NO. N40085-08-D-9739

NAVFAC DRAWING NO. 12664316

SHEET CE112 OF

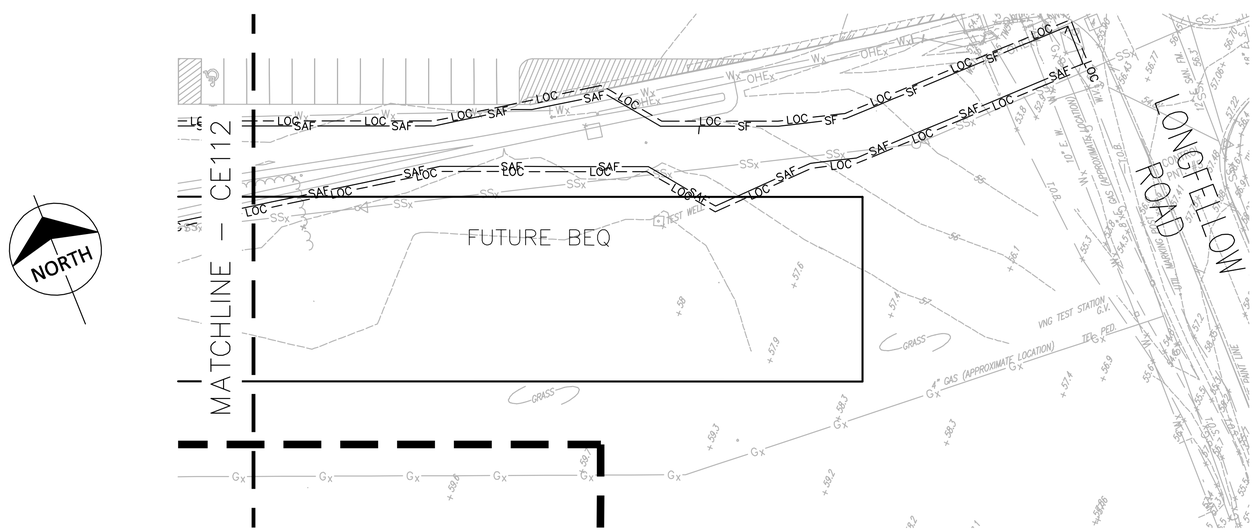
DRAWFORM REVISION: 6 AUG 2007



EROSION & SEDIMENT CONTROL PHASE 2 PLAN - MARTIAL ARTS PIT (B3)

1" = 30'

GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET



EROSION & SEDIMENT CONTROL PHASE 2 PLAN - GAS UTILITY (A3)

1" = 30'

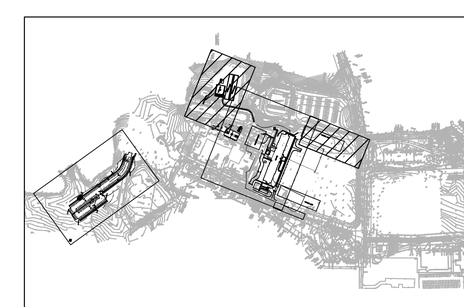
GRAPHIC SCALE
0 30' 60'
1 INCH = 30 FEET

EROSION LEGEND

- SA — TEMPORARY SAFETY FENCE SEE SHEET CE501 DETAIL A3
- S — TEMPORARY SILT FENCE SEE SHEET CE501 DETAIL C2
- IP — TEMPORARY INLET PROTECTION SEE SHEET CE502 DETAIL A4 OR A5
- CIP — TEMPORARY CULVERT INLET PROTECTION SEE SHEET CE502 DETAIL A2
- OP# — PERMANENT OUTLET PROTECTION SEE SHEET CE502 DETAIL B2
- LOC — LIMITS OF CONSTRUCTION
- DRAINAGE DIVIDE
- SS — TEMPORARY SUPER SILT FENCE SEE SHEET CE501 DETAIL C4
- TEMPORARY CULVERT

SITE DISTURBANCE AREAS (AREAS WITHIN LOC)

PARKING (LOC AREA ON SHEET CE111)	:2.18 AC
BEQ (LOC AREA ON SHEET CE112)	:4.44 AC
MARTIAL ARTS & GAS UTILITY (LOC AREA ON SHEET CE113)	:1.31 AC
TOTAL	:7.93 AC



SYM	DESCRIPTION	DATE	APPR

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FIRE PROTECTION	DAS		

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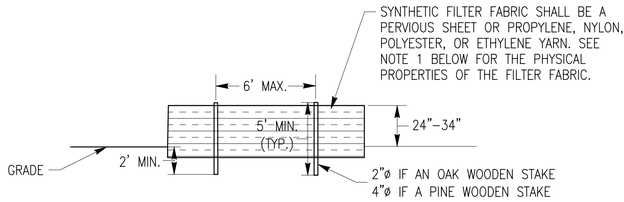
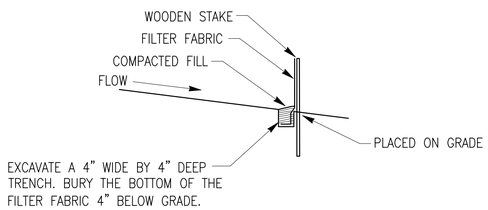
YORKTOWN, VIRGINIA
P-985 BACHELOR ENLISTED QUARTERS
EROSION & SEDIMENT CONTROL PHASE 2 PLAN–MARTIAL ARTS

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085-08-D-9739
NAVFAC DRAWING NO. 12664317
SHEET OF
CE113

DRAWFORM REVISION: 6 AUG 2007



FRONT ELEVATION



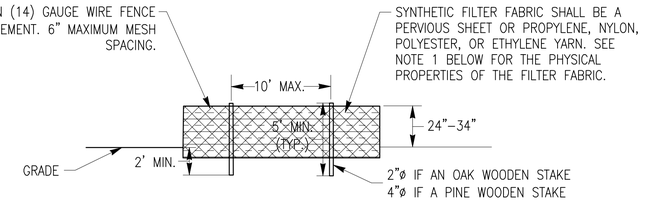
SIDE ELEVATION

SILT FENCE AND SUPER SILT FENCE NOTES:

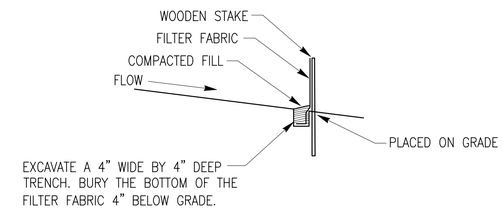
1. SILT FENCE FILTER FABRIC SHALL HAVE A MINIMUM FILTERING EFFICIENCY OF 75% ACCORDING TO THE ASTM 5141 TEST RESULTS, A MINIMUM TENSILE STRENGTH AT 20% (MAX.) ELONGATION OF 50 LBS./LINEAR INCH ACCORDING TO THE VTM–52 TEST RESULTS, A MINIMUM FLOW RATE OF 0.2 GALLONS/SQ. FT./MINUTE ACCORDING TO THE ASTM 5141 TEST RESULTS, AND A MINIMUM ULTRAVIOLET RADIATION STABILITY OF 90% ACCORDING TO ASTM G–26 TEST RESULTS. THE TENSILE STRENGTH AT 20% (MAX.) ELONGATION REQUIREMENTS SHALL BE REDUCED BY 50% AFTER SIX MONTHS OF INSTALLATION.
2. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
4. THE MAXIMUM LENGTH OF SLOPE ABOVE A ROW OF SILT FENCE IS 100'.

SILT FENCE

NTS — CE101, CE102, CE103, CE111, CE112, CE113 — C2



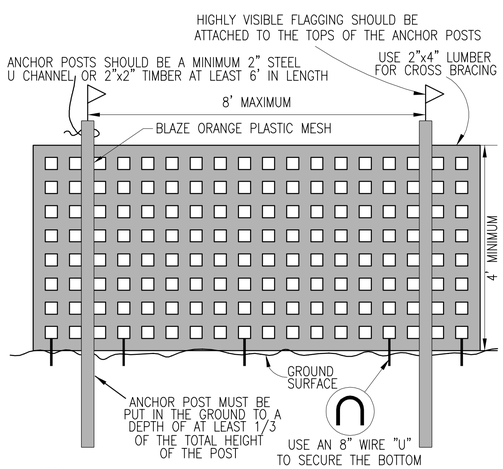
FRONT ELEVATION



SIDE ELEVATION

SUPER SILT FENCE

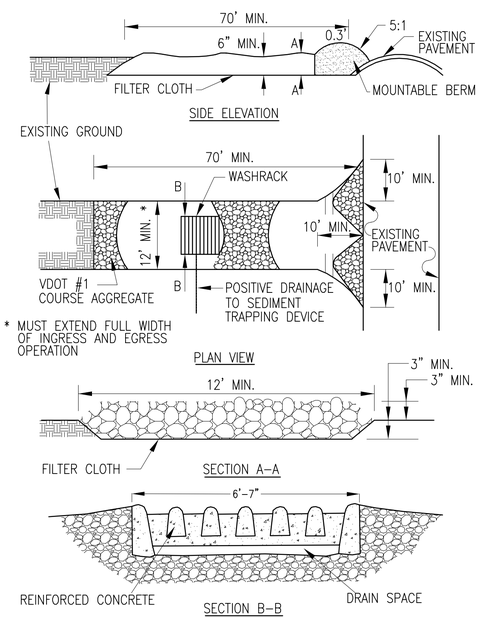
NTS — CE101, CE103, CE111, CE113 — C4



NOTES:
1. LIMITS OF DISTURBANCE WILL BE SET AS PART OF THE REVIEW PROCESS.
2. THE BOUNDARIES OF THE LIMITS OF DISTURBANCE SHOULD BE STAKED AND FLAGGED PRIOR TO ERECTING THE PROTECTIVE DEVICE.
3. ANCHOR POSTS SHOULD BE PLACED TO AVOID SEVERING OR DAMAGING LARGE TREE ROOTS.
4. FENCING MATERIAL SHOULD BE FASTENED SECURELY TO THE ANCHOR POSTS.

SAFETY FENCE

NTS — CE101, CE102, CE103, CE111, CE112, CE113 — A3



CONSTRUCTION ENTRANCE NOTES:

1. THE AREA OF THE ENTRANCE MUST BE EXCAVATED A MINIMUM OF 3 INCHES AND MUST BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE FILTER FABRIC UNDERLINER WILL THEN BE PLACED THE FULL WIDTH AND LENGTH OF THE ENTRANCE.
2. FOLLOWING THE INSTALLATION OF THE FILTER CLOTH, THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. CONVEYANCE OF SURFACE WATER UNDER ENTRANCE, THROUGH CULVERTS, SHALL BE PROVIDED AS REQUIRED. IF SUCH CONVEYANCE IS IMPOSSIBLE, THE CONSTRUCTION OF A "MOUNTABLE" BERM WITH 5:1 SLOPES WILL BE PERMITTED.
3. THE FILTER CLOTH UTILIZED SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS, AND BE MILDEW AND ROT RESISTANT. THE FILTER CLOTH SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 220 LBS. ACCORDING TO THE ASTM D1682 TEST METHOD, A MINIMUM 220% ELONGATION AT FAILURE ACCORDING TO THE ASTM D1682 TEST METHOD, A MINIMUM MULLEN BURST STRENGTH OF 430 LBS. ACCORDING TO THE ASTM D3786 TEST METHOD, A MINIMUM PUNCTURE STRENGTH OF 125 LBS. ACCORDING TO THE ASTM D751 TEST METHOD, AND AN EQUIVALENT OPENING SIZE RANGE FROM 40mm TO 80mm ACCORDING TO THE U.S. STANDARD SIEVE CW–02215 TEST METHOD.

CONSTRUCTION ENTRANCE

NTS — CE101, CE102 — A5

SYM	DESCRIPTION	DATE	APPR

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PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

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HAMPTON ROADS IPT
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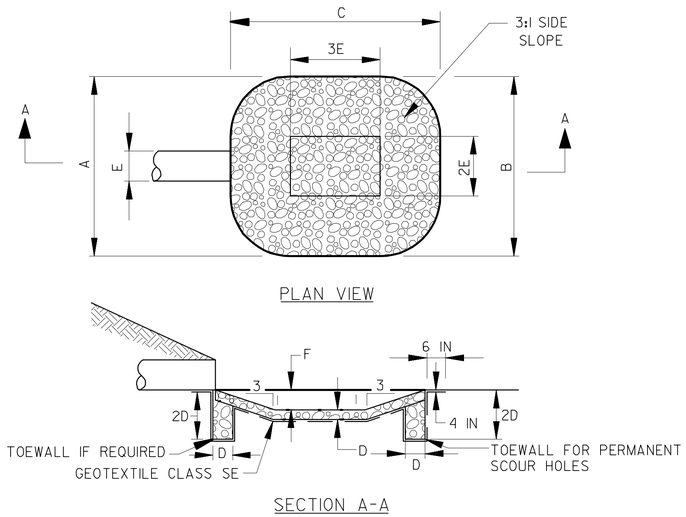
YORKTOWN, VIRGINIA
P-985 BACHELOR ENLISTED QUARTERS
EROSION & SEDIMENT CONTROL DETAILS

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085–08–D–9739
NAVFAC DRAWING NO. 12664318
SHEET OF
CE501

DRAWFORM REVISION: 6 AUG 2007



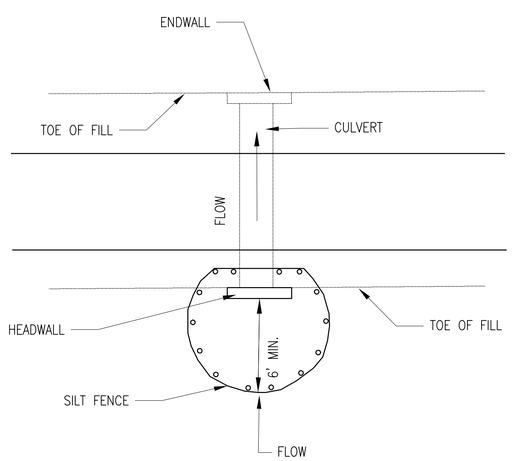
CONSTRUCTION SPECIFICATIONS

1. PREPARE THE SUBGRADE FOR THE FILTER AND SCOUR HOLE TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
2. THE ROCK MUST CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED IN THE SCOUR HOLE AND FILTER.
3. USE GEOTEXTILE CLASS SE OR BETTER PROTECTED FROM PUNCHING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE. EMBED THE GEOTEXTILE A MINIMUM OF 4 INCHES AND EXTEND THE GEOTEXTILE A MINIMUM OF 6 INCHES BEYOND THE EDGE OF THE SCOUR HOLE.
4. STONE FOR THE SCOUR HOLE MAY BE PLACED BY EQUIPMENT. CONSTRUCT TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. DELIVER AND PLACE THE STONE FOR THE SCOUR HOLE IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE STONE FOR THE SCOUR HOLE IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
5. PLACE THE STONE FOR THE SCOUR HOLE SO THAT IT BLENDS IN WITH THE EXISTING GROUND. IF THE STONE IS PLACED TOO HIGH THEN THE FLOW WILL BE FORCED OUT OF THE CHANNEL AND SCOUR ADJACENT TO THE STONE WILL OCCUR.
6. FOR PERMANENT USES, PROVIDE A TOEWALL WRAPPED IN GEOTEXTILE CLASS SE, 2 X D IN DEPTH AND D IN WIDTH AT THE DOWNSTREAM END. PROVIDE A SIMILAR TOEWALL UNDER THE OUTLET PIPE IF THE OUTLET PIPE DOES NOT HAVE A FOOTER OR HEADWALL.
7. PROVIDE AN UNDERDRAIN TO A SUITABLE OUTFALL IF STANDING WATER IN THE SCOUR HOLE IS AN ISSUE OR AS REQUIRED BY THE LOCAL DISTRICT.

OP	STR.	FLOW	FLOW	PIPE DIA.	TAIL-WATER	STONE DIA	RIPRAP TYPE	RIPRAP UPPER WIDTH	RIPRAP LOWER WIDTH	SCOUR LENGTH	STONE THICKNESS	PIPE DIA.	SCOUR DEPTH
		Q10, 5 min	Q10, 24 hour	D1	T_w	d_{50}		A	B	C	D	E	F
#	#	(cfs)	(cfs)	(in)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
OP1	FES-B1	8.90	0.23	18	1.06	0.50	CLASS AI	12.00	12.00	13.50	1.00	1.50	1.50

PERMANENT OUTLET PROTECTION (B2)

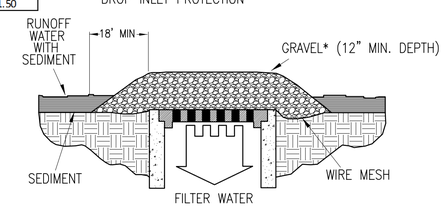
NTS CE111



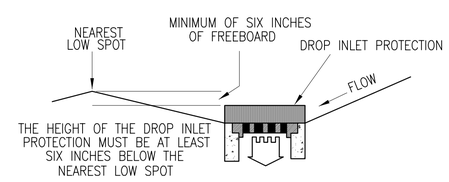
CULVERT INLET PROTECTION (A2)

NTS CE102, CE112

GRAVEL AND WIRE DROP INLET PROTECTION



FREEBOARD REQUIREMENTS FOR ALL DROP INLET PROTECTION



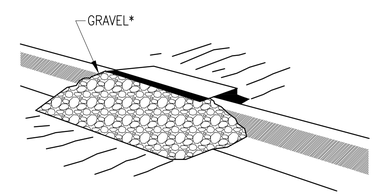
*GRAVEL SHALL BE CLEAN 3/4" TO 2" COARSE AGGREGATE

GRAVEL AND WIRE DROP INLET PROTECTION NOTES:

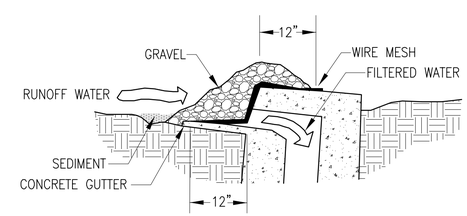
1. WIRE MESH SHALL BE LAID OVER THE DROP INELT SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. WIRE MESH WITH $\frac{1}{2}$ INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
2. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
3. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND/OR REPLACED.

GRAVEL AND WIRE DROP INLET PROTECTION (A4)

NTS CE102, CE111, CE112



PERSPECTIVE VIEW



SIDE ELEVATION

* GRAVEL SHALL BE CLEAN 3/4" TO 2" COARSE AGGREGATE

GRAVEL CURB INLET PROTECTION (A5)

NTS CE102, CE111, CE112

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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AE LOGO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	SM	DRW KC	CHK JL
PM	MMP		
BRANCH MANAGER	BDB		
CHIEF ENG/ARCH	RLJ/CRB		
FIRE PROTECTION	DAS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION ~ NORFOLK, VIRGINIA
HAMPTON ROADS IPT
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-985 BACHELOR ENLISTED QUARTERS
EROSION & SEDIMENT CONTROL DETAILS

SCALE: AS NOTED
EPROJECT NO. 1113911
CONSTR. CONTR. NO. N40085-08-D-9739
NAVFAC DRAWING NO. 12664319
SHEET OF
CE502

DRAWFORM REVISION: 6 AUG 2007

TEMPORARY SEEDING

Species	Seeding Rate (lbs./acre	Seeding Depth (in.)	Planting Dates	Fertilizer (lbs./acre)	Lime (tons/acre)	Mulching (tons/acre)
50% Annual Ryegrass (Lolium multi-florum) & 50% Cereal (Winter) Rye (Secale cereale)	50 - 100	0.25 - 0.50	Sept. 1 - Feb. 15	600 (10-20-10) *Fertilizer to be incorporated into the top 2 to 4 inches of the soil if possible	2 *Pulverized agricultural grade limestone	Straw or Hay 1.5 - 2 (Minimum 2 tons for winter cover) *Must be free from weeds and coarse matter, be anchored, and spread with mulch blower or by hand.
Annual Ryegrass (Lolium multi-florum)	60 - 100		Feb. 16 - Apr. 30			
German Millet (Setaria italica)	50		May 1 - Aug. 31			

TEMPORARY SEEDING (D2)
NTS

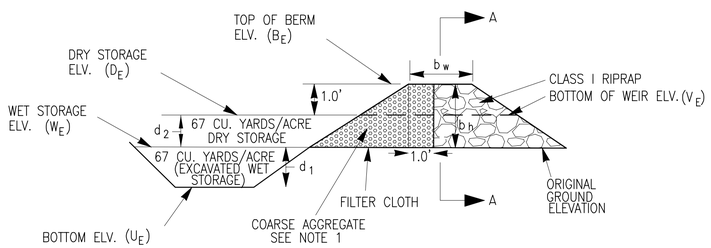
SODDING

Sod Type	Recommended Varieties	Maintenance Fertilization	Application Dates
Tall Fescue	90%-100%: Amigo, Apache, Bonanza, Chieftain, Finelawn 5GL, Mesa, Rebel II, Shenandoah, Tribute	4 lbs. nitrogen per 1000 sq. ft./year 1 lb. phosphorus per 1000 sq. ft./year 2 lbs. Potash per 1000 sq. ft./year	75% of the total requirements should be applied between September 1 and December 31. The balance should be applied during the remainder of the year.
	0%-10%: Kentucky bluegrass: Baron, Cheri, Columbia, Monopoly, Nassau, Ram I, Victa	Apply 4 to 5 lbs. nitrogen per 1000 sq. ft./year. Phosphorus and Potash should only be applied according to soil tests. Maintenance fertilization should utilize slow release fertilizers which reduce the number of applications per year and subsequently reduce the adverse impacts on groundwater.	Between May 1 and August 15

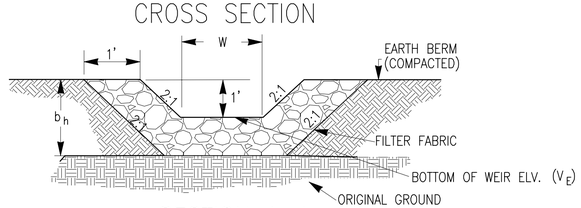
SODDING (D5)
NTS

SEDIMENT TRAP VALUES:

NAME	AREA	TOTAL VOLUME	WET VOLUME	DRY VOLUME	BOTTOM ELEVATION (U_E)	WET STORAGE ELEVATION (W_E)	DRY STORAGE ELEVATION (D_E)	TOP OF BERM ELEVATION (B_E)	WET STORAGE DEPTH (d_1)	DRY STORAGE DEPTH (d_2)	BERM HEIGHT (b_h)	BERM WIDTH (b_w)	BOTTOM OF WEIR ELEVATION (V_E)	WEIR WIDTH (w)	CAPACITY
	(acres)	(cubic feet)	(cubic feet)	(cubic feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(%)
ST1	0.71	2,606.78	1,269.38	1,337.41	54.50	56.50	57.90	58.90	2.00	1.40	2.40	2.50	57.90	4.30	1.02
ST2	0.78	2,945.64	1,453.60	1,492.04	55.50	57.50	58.90	59.90	2.00	1.40	2.40	2.50	58.90	4.70	1.04



CROSS SECTION

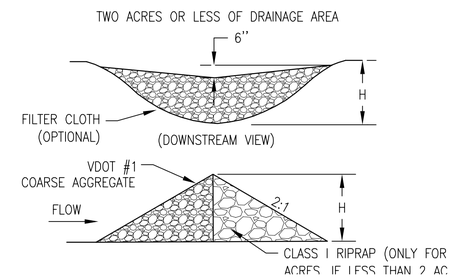


SECTION A–A

TEMPORARY SEDIMENT TRAP NOTES:

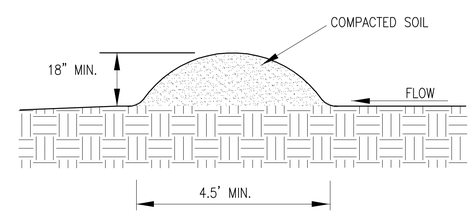
1. COARSE AGGREGATE SHALL BE VDOT #3, #357, OR #5
2. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT.
3. FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHOULD BE COMPACTED IN 6–INCH LAYERS BY TRAVERSING WITH CONSTRUCTION EQUIPMENT.
4. THE EARTHEN EMBANKMENT SHALL BE SEEDED WITH TEMPORARY OR PERMANENT VEGETATION IMMEDIATELY AFTER INSTALLATION.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
6. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE UPSLOPE DRAINAGE AREA HAS BEEN STABILIZED.
7. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER (EXCEPT FOR EXCAVATED, WET STORAGE AREA WHICH MAY BE AT A MAXIMUM 1:1 GRADE).

SEDIMENT TRAP (A2)
NTS CE101, CE103



NAME	AREA	HEIGHT
	(acres)	(feet)
CD1	0.23	1.00

ROCK CHECK DAM (B5)
NTS CE102



TEMPORARY DIVERSION DIKE NOTES:

1. TEMPORARY DIVERSION DIKES MUST BE INSTALLED AS A FIRST STEP IN THE LAND–DISTURBING ACTIVITY AND MUST BE FUNCTIONAL PRIOR TO UPSLOPE LAND DISTURBANCE.
2. THE DIKE SHOULD BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
3. TEMPORARY OR PERMANENT SEEDING AND MULCH SHALL BE APPLIED TO THE DIKE IMMEDIATELY FOLLOWING ITS CONSTRUCTION.
4. THE DIKE SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS AND TRAFFIC.

TEMPORARY DIVERSION DIKE (A5)
NTS CE101, CE103

SYM	DESCRIPTION	DATE	APPR

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SHEET OF
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DRAWFORM REVISION: 6 AUG 2007