GENERAL SHEET NOTES

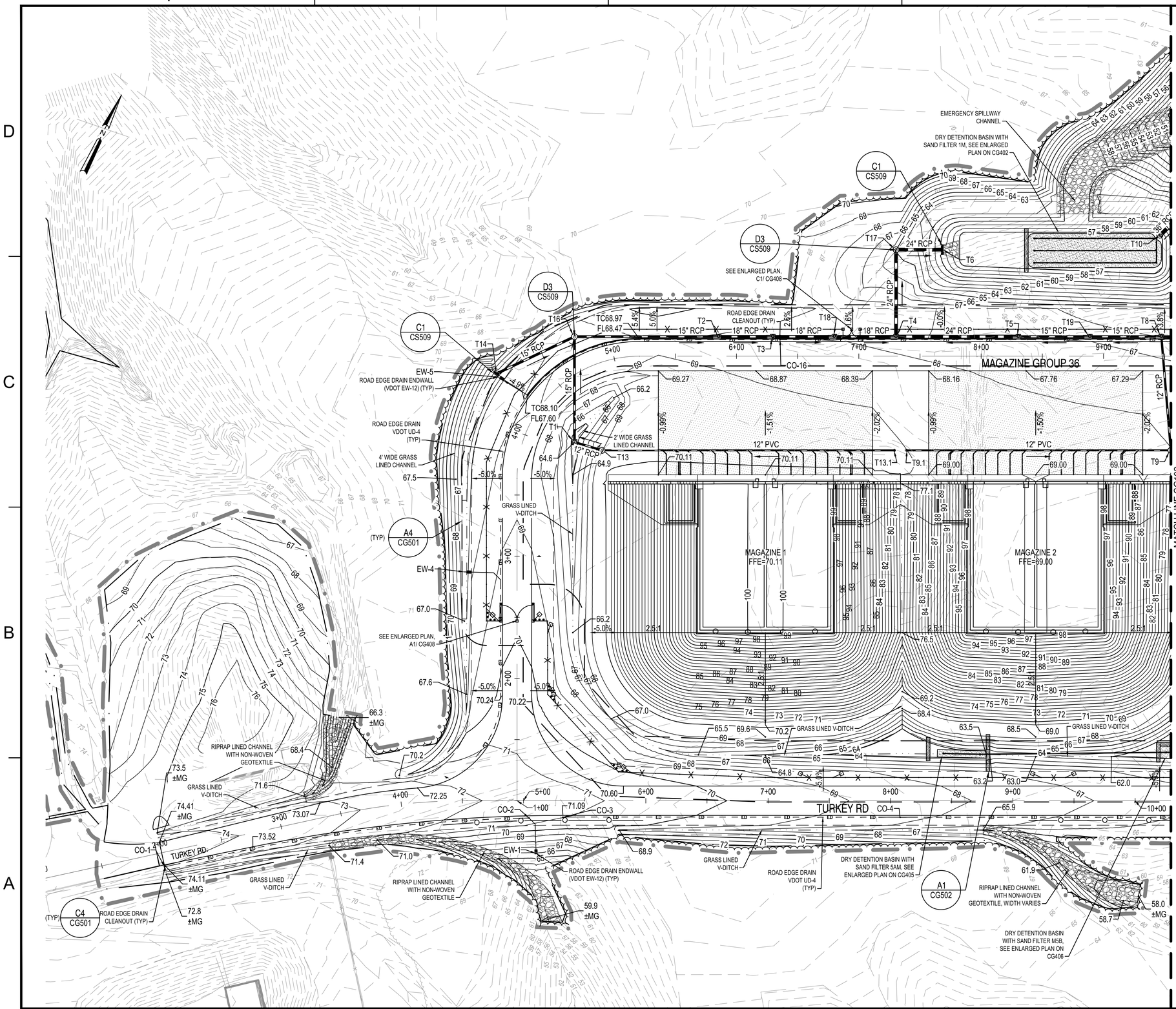
A. REFER TO SHEET V-001 FOR SURVEY CONTROL AND SURVEY NOTES.

B. REFER TO EROSION AND SEDIMENT CONTROL PLANS/NOTES FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY GRADING ACTIVITIES.

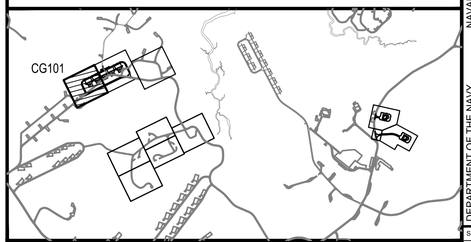
C. EXCEPT AS NOTED OTHERWISE, LINE ALL CHANNELS AND DITCHES WITH VDOT EC-2 LINING.

D. UNLESS OTHERWISE NOTED, SLOPES NOT TO EXCEED 3:1.

E. SEE SHEET CG601 FOR STORM SCHEDULE



KEY PLAN



GRAPHIC SCALE

1"=40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James D. Gardner, P.E.
FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

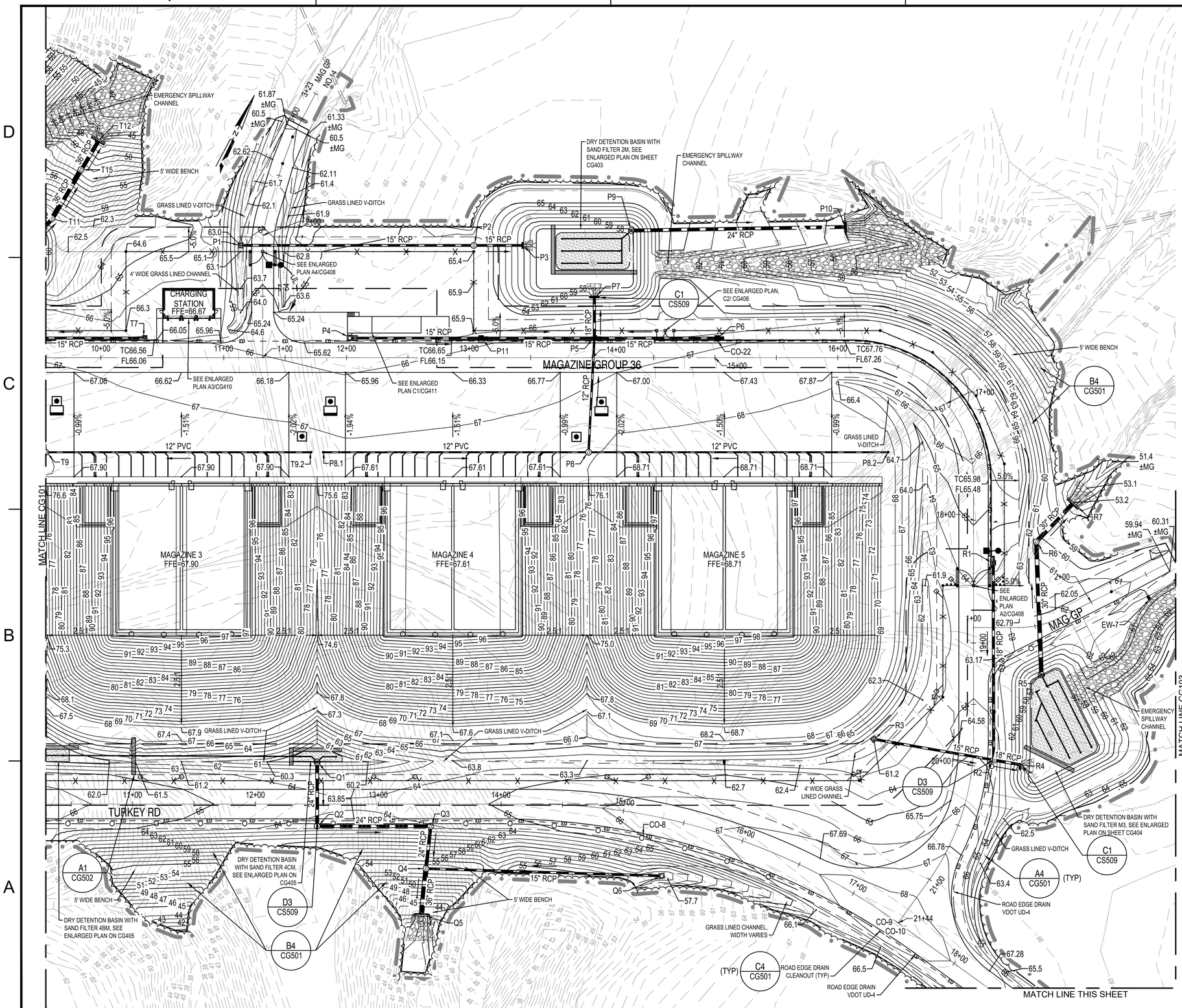
DES WJW | DRW SMT | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
GRADING PLAN - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941856
SHEET 204 OF 499
CG101

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINE\Sheet\05_CG\P171-1737010-MAG2-CG101.dwg LAYOUT NAME: CG101 PLOTTED: Wednesday, April 01, 2026 - 12:32pm USER: michael.l.hart5



GENERAL SHEET NOTES

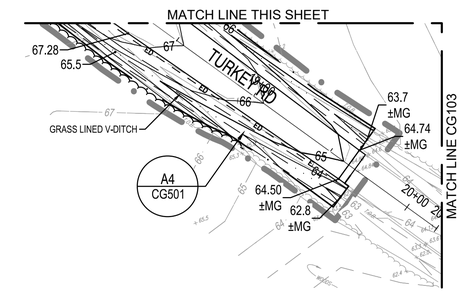
A. REFER TO SHEET V-001 FOR SURVEY CONTROL AND SURVEY NOTES.

B. REFER TO EROSION AND SEDIMENT CONTROL PLANS/NOTES FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY GRADING ACTIVITIES.

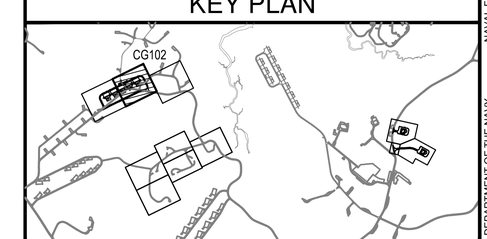
C. EXCEPT AS NOTED OTHERWISE, LINE ALL CHANNELS AND DITCHES WITH VDOT EC-2 LINING.

D. UNLESS OTHERWISE NOTED, SLOPES NOT TO EXCEED 3:1.

E. SEE SHEET CG601 FOR STORM SCHEDULE



KEY PLAN



GRAPHIC SCALE

1"=40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB

PM/DM MME/WJW

BRANCH MANAGER DLB

CHIEF ENG/ARCH JWJ

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

GRADING PLAN - MAGAZINE SITE

SCALE: AS SHOWN

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

NAVFAC DRAWING NO. 12941857

SHEET 205 OF 499

CG102

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171-1737010-MAG2-CG102.dwg LAYOUT NAME: CG102 PLOTTED: Wednesday, April 01, 2026 - 12:33pm USER: michael.l.hart5

GENERAL SHEET NOTES

A. REFER TO SHEET V-001 FOR SURVEY CONTROL AND SURVEY NOTES.

B. REFER TO EROSION AND SEDIMENT CONTROL PLANS/NOTES FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY GRADING ACTIVITIES.

C. EXCEPT AS NOTED OTHERWISE, LINE ALL CHANNELS AND DITCHES WITH VDOT EC-2 LINING.

D. UNLESS OTHERWISE NOTED, SLOPES NOT TO EXCEED 3:1.

E. SEE SHEET CG601 FOR STORM SCHEDULE

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
James E. Donohue, R.A.
FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES

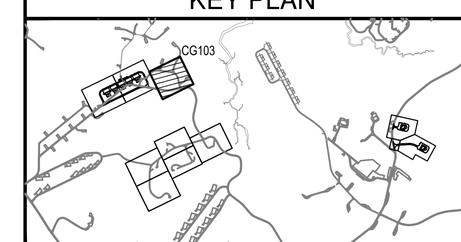
GRADING PLAN - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO. 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941858
SHEET 206 OF 499

CG103

DRAWFORM REVISION: 14 SEP 2023

KEY PLAN



GRAPHIC SCALE

1"=40' 0' 40' 80'

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CV\P171-1737010-MAG2-CG103.dwg LAYOUT NAME: CG103 PLOTTED: Wednesday, April 01, 2026 - 12:34pm USER: michael.l.hart5

GENERAL SHEET NOTES

A. REFER TO SHEET C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

B. REFER TO EROSION AND SEDIMENT CONTROL PLANS/NOTES FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY GRADING ACTIVITIES.

C. EXCEPT AS NOTED OTHERWISE, LINE ALL OUTFALL CHANNELS AND DITCHES WITH VDOT EC-2 LINING.

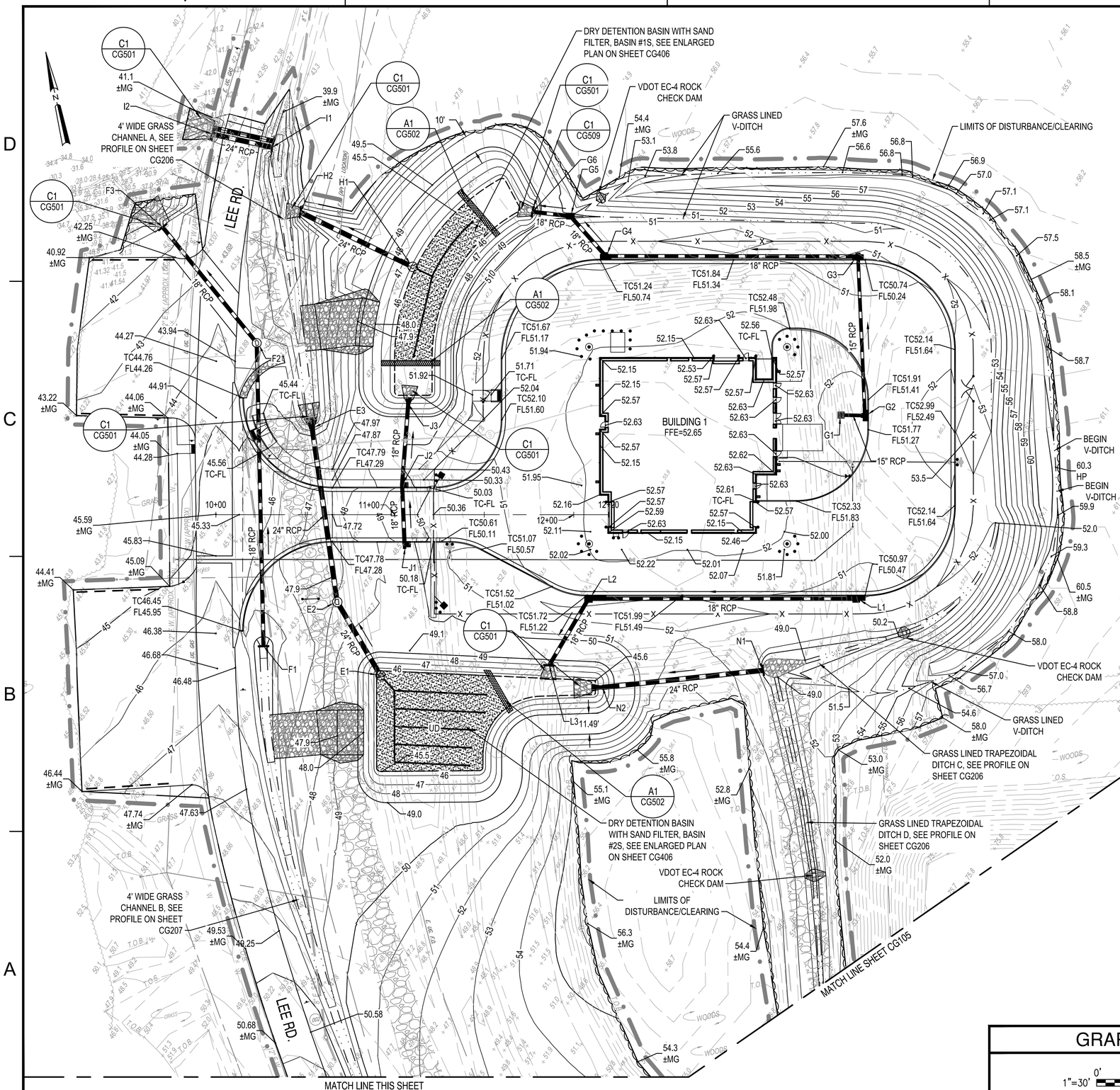
D. UNLESS OTHERWISE NOTED, SLOPES NOT TO EXCEED 3:1.

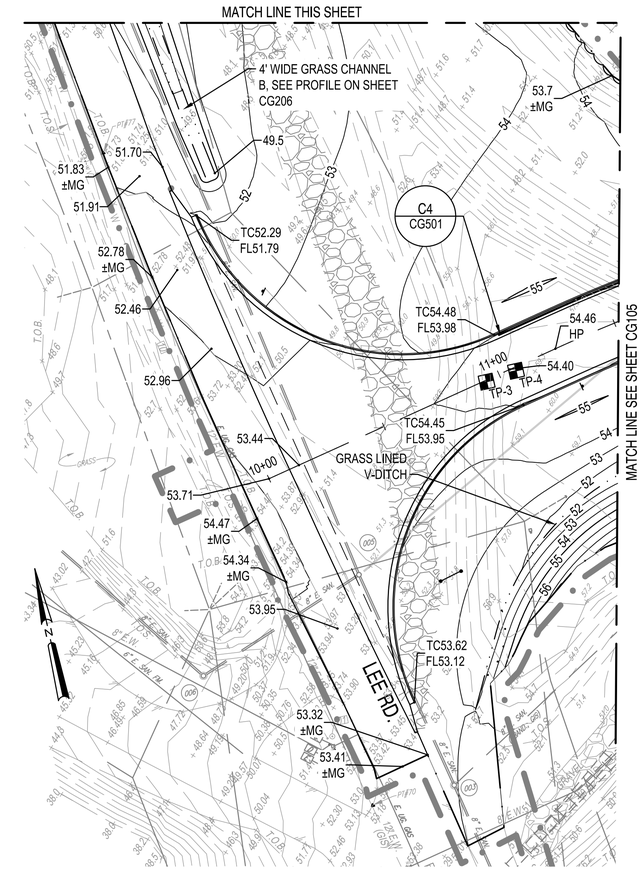
E. REFER TO SHEET CG602 FOR STORM SCHEDULES.

F. PAVEMENT IS FLAT AT GATES. SEE ENLARGED PLANS ON CG410.

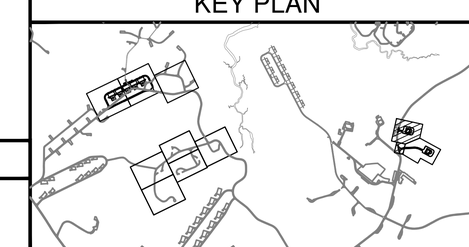
G. A 1.5" ASPHALT OVERLAY WAS PLACED ON LEE ROAD AFTER THE TOPOGRAPHIC SURVEY WAS PERFORMED. PLEASE NOTE THAT CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG LEE ROAD ARE APPROXIMATELY 0.12" HIGHER THAN INDICATED.

H. UNLESS OTHERWISE NOTED, LINE DITCHES WITH VDOT EC-3, TYPE 2 LINING.





KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James Michael Hart, P.E.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES DRG	DRW MTH CHK DLB
PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

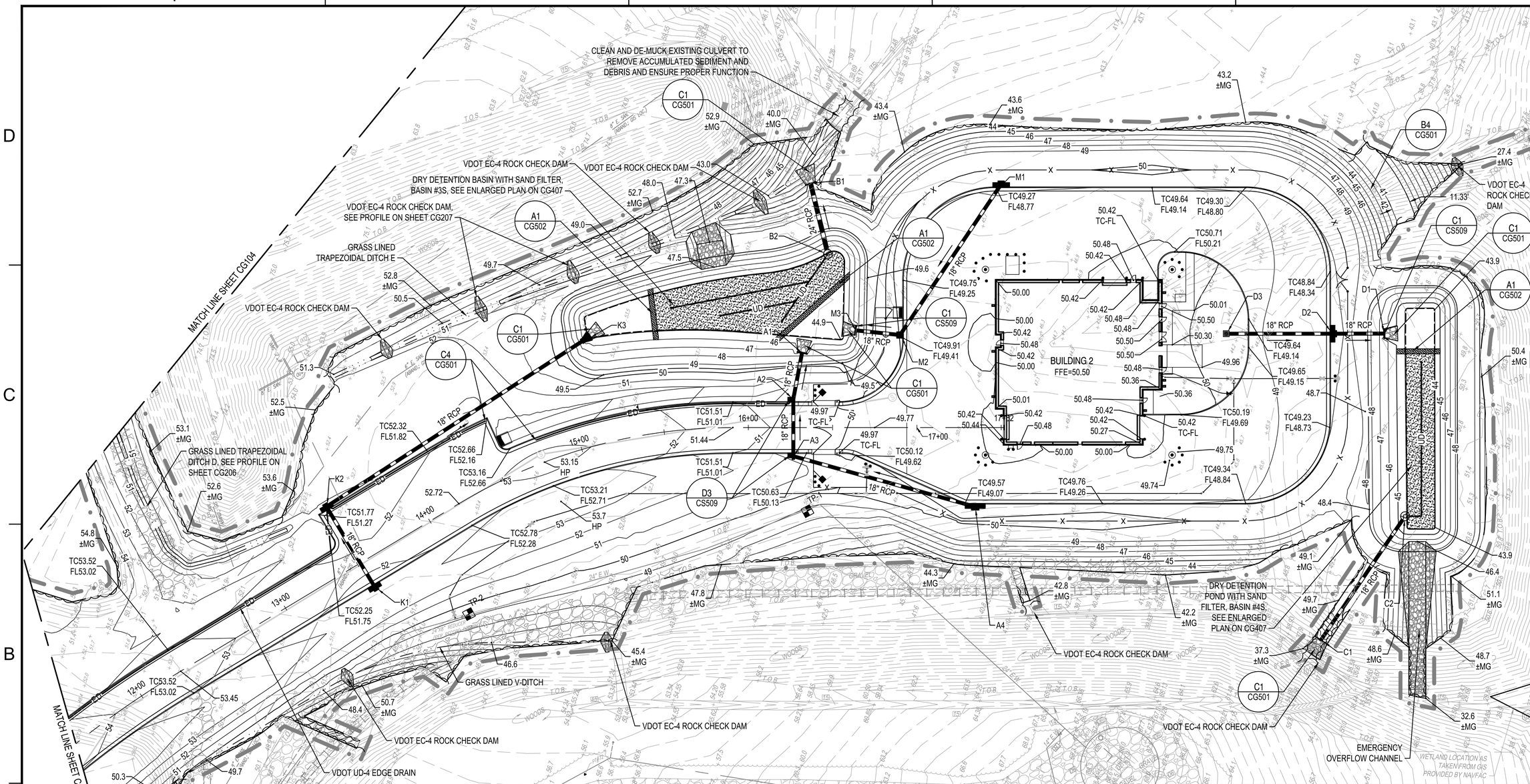
GRADING PLAN - SEGREGATION FACILITIES

SCALE: 1" = 30'
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941859
SHEET 207 OF 499

CG104

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: C:\Users\MICHAE~1.HAR\AppData\Local\Temp\AcPublish_8768\P171-1737010-BLDG-CG104.dwg LAYOUT NAME: CG104 PLOTTED: Monday, April 06, 2026 - 2:35pm USER: michael.t.hart5



GENERAL SHEET NOTES

A. REFER TO SHEET C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.

B. REFER TO EROSION AND SEDIMENT CONTROL PLANS/NOTES FOR CONSTRUCTION SEQUENCING AND INSTALLATION OF APPROPRIATE EROSION CONTROL PRACTICES PRIOR TO ANY GRADING ACTIVITIES.

C. EXCEPT AS NOTED OTHERWISE, LINE ALL OUTFALL CHANNELS AND DITCHES WITH VDOT EC-2 LINING.

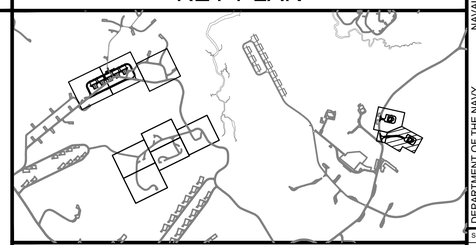
D. UNLESS OTHERWISE NOTED, SLOPES NOT TO EXCEED 3:1.

E. REFER TO SHEET CG602 FOR STORM SCHEDULES.

F. A 1.5" ASPHALT OVERLAY WAS PLACED ON LEE ROAD AFTER THE TOPOGRAPHIC SURVEY WAS PERFORMED. PLEASE NOTE THAT CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG LEE ROAD ARE APPROXIMATELY 0.12" HIGHER THAN INDICATED.

G. UNLESS OTHERWISE NOTED, LINE DITCHES WITH VDOT EC-3, TYPE 2 LINING.

KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

A/E INFO

APPROVED
James E. Donahue, P.A.
FOR COMMANDER NAVFAC

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES	DRG	DRW MTH	CHK DLB
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

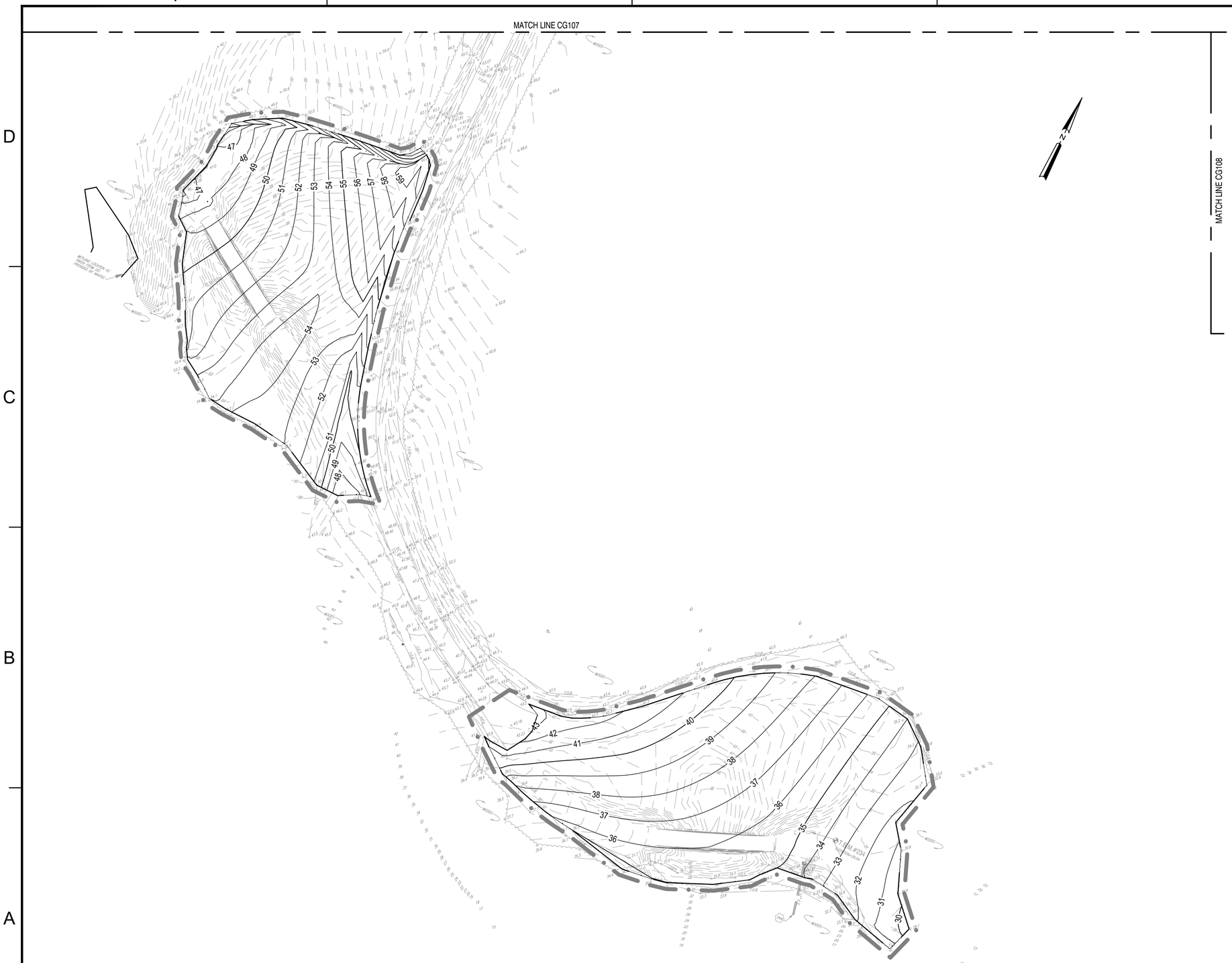
GRADING PLAN - SEGREGATION FACILITIES

SCALE: 1" = 30'
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941860
SHEET 208 OF 499

CG105

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\WLCOA\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINES\Sheet\05_CG\P171-1737010-BLDG-CG104.dwg LAYOUT NAME: CG105 PLOTTED: Wednesday, April 01, 2026 – 12:36pm USER: michael.t.hart5



GENERAL SHEET NOTES

A. NO SOIL SHALL LEAVE THE DISTURBED AREA SHOWN ON THIS DRAWING. UTILIZE EXISTING MAGAZINE EARTH COVER TO FILL EXCAVATION CREATED BY THE DEMOLITION OF THE BUILDING AND PAVEMENTS. COMPACT IN MAXIMUM 8-INCH LIFTS. RE-GRADE THE SITE WITH PREFERABLE 5% SLOPES (MAXIMUM 20% (5:1) SLOPES) AND MINIMUM SLOPES TO CREATE POSITIVE DRAINAGE CONFORMING TO THE EXISTING DRAINAGE PATTERNS IN GENERAL CONFORMITY TO THE PROPOSED CONTOURS WITHOUT CREATING PONDING AREAS. PROVIDE MINIMUM 4-FOOT WIDE SHOULDERS SLOPING AWAY FROM ANY ADJACENT UNDISTURBED DRIVES/ROADS AT 5% SLOPE. GRADES SHALL MATCH EXISTING ELEVATIONS AROUND THE PERIMETER OF THE SITE AFTER THE ADDITION OF THE TOP SOIL.

B. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE.

C. STRIP AND STOCKPILE TOPSOIL PRIOR TO GRADING.

D. SOIL MUST BE GRADED AT MINIMUM 2% AND MAXIMUM 20% SLOPES TO THE CONTOURS INDICATED. IF FILLS EXCEED 10' IN HEIGHT, INSTALL A 10' WIDE BENCH SLOPED AT 5% GRADE PRIOR TO RESUMING FILL AT 20% SLOPE.

E. REFER TO LANDSCAPE PLANS FOR PROCEDURES FOR ESTABLISHMENT OF VEGETATION.

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Donahue, R.A.

FOR COMMANDER NAVFAC

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB

PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

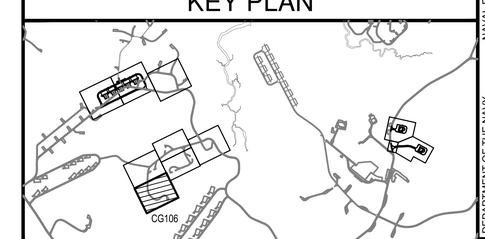
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

GRADING PLAN - DEMOLITION SITE

KEY PLAN



GRAPHIC SCALE

1" = 40' 0' 40' 80'

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941861
SHEET 209 OF 499

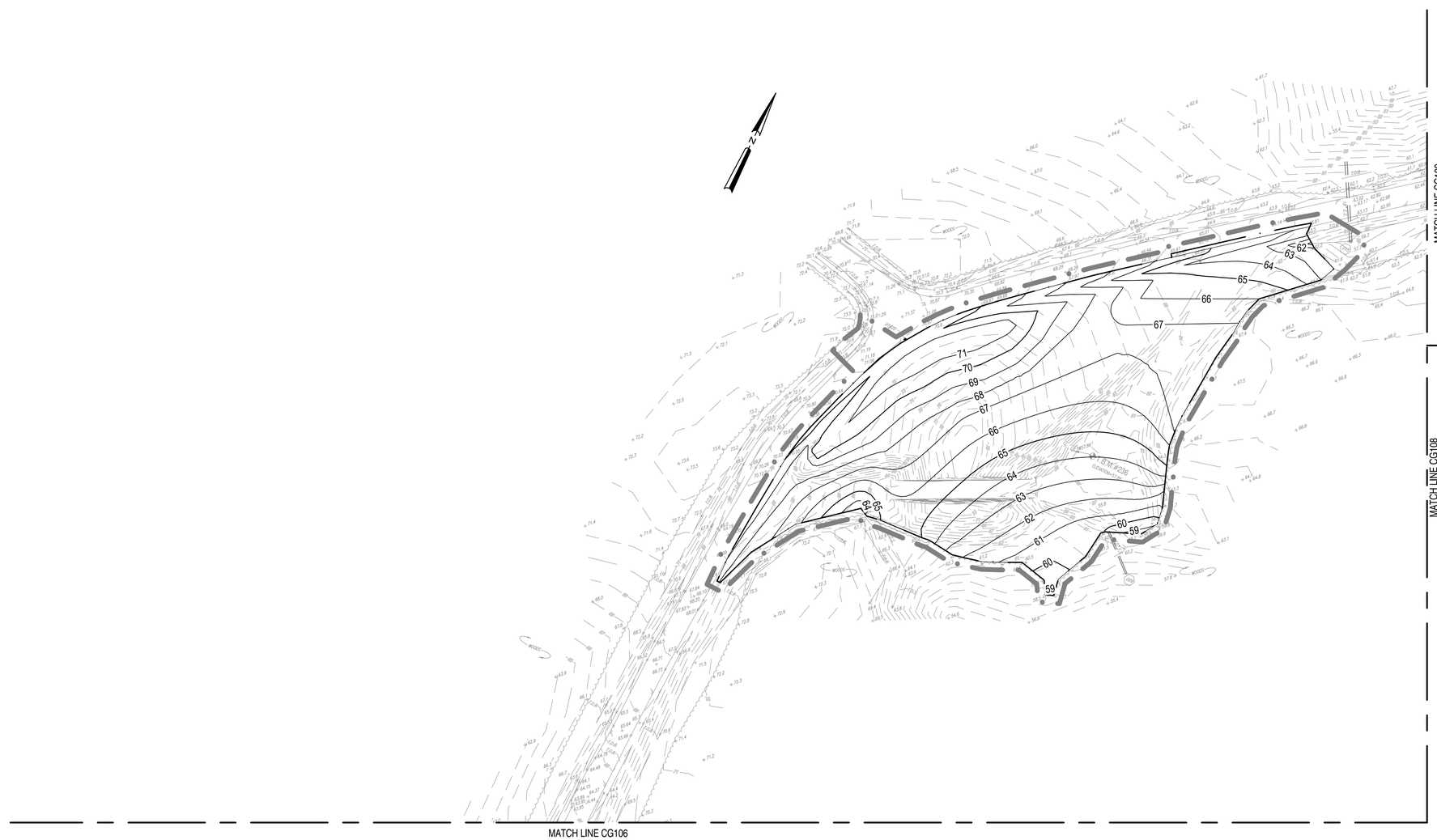
CG106

DRAWFORM REVISION: 14 SEP 2023

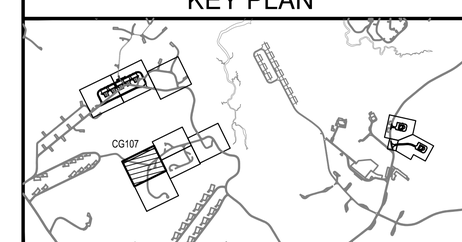
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010 CG701 GRADING PLAN – DEMOLITION SITE.dwg LAYOUT NAME: CG106 PLOTTED: Wednesday, April 01, 2026 – 12:37pm USER: michael.l.hurt5

GENERAL SHEET NOTES

A. SEE SHEET CG106 FOR GENERAL SHEET NOTES.



KEY PLAN



GRAPHIC SCALE

1"=40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
Digitally signed by Brian Lanham, P.E.
FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

GRADING PLAN - DEMOLITION SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941862
SHEET 210 OF 499

CG107

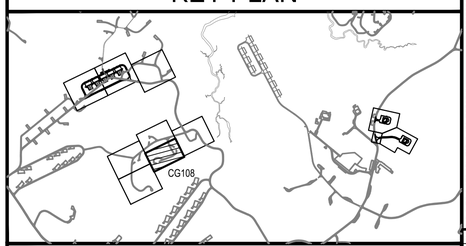
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIVIL\P171–1737010 CG701 GRADING PLAN – DEMOLITION SITE.dwg LAYOUT NAME: CG107 PLOTTED: Wednesday, April 01, 2026 – 12:37pm USER: michael.l.hart5

GENERAL SHEET NOTES

A. SEE SHEET CG106 FOR GENERAL SHEET NOTES.

KEY PLAN



GRAPHIC SCALE

1" = 40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James J. Grafione, P.E.

FOR COMMANDER NAVFAC

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB

PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

GRADING PLAN - DEMOLITION SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941863
SHEET 211 OF 499

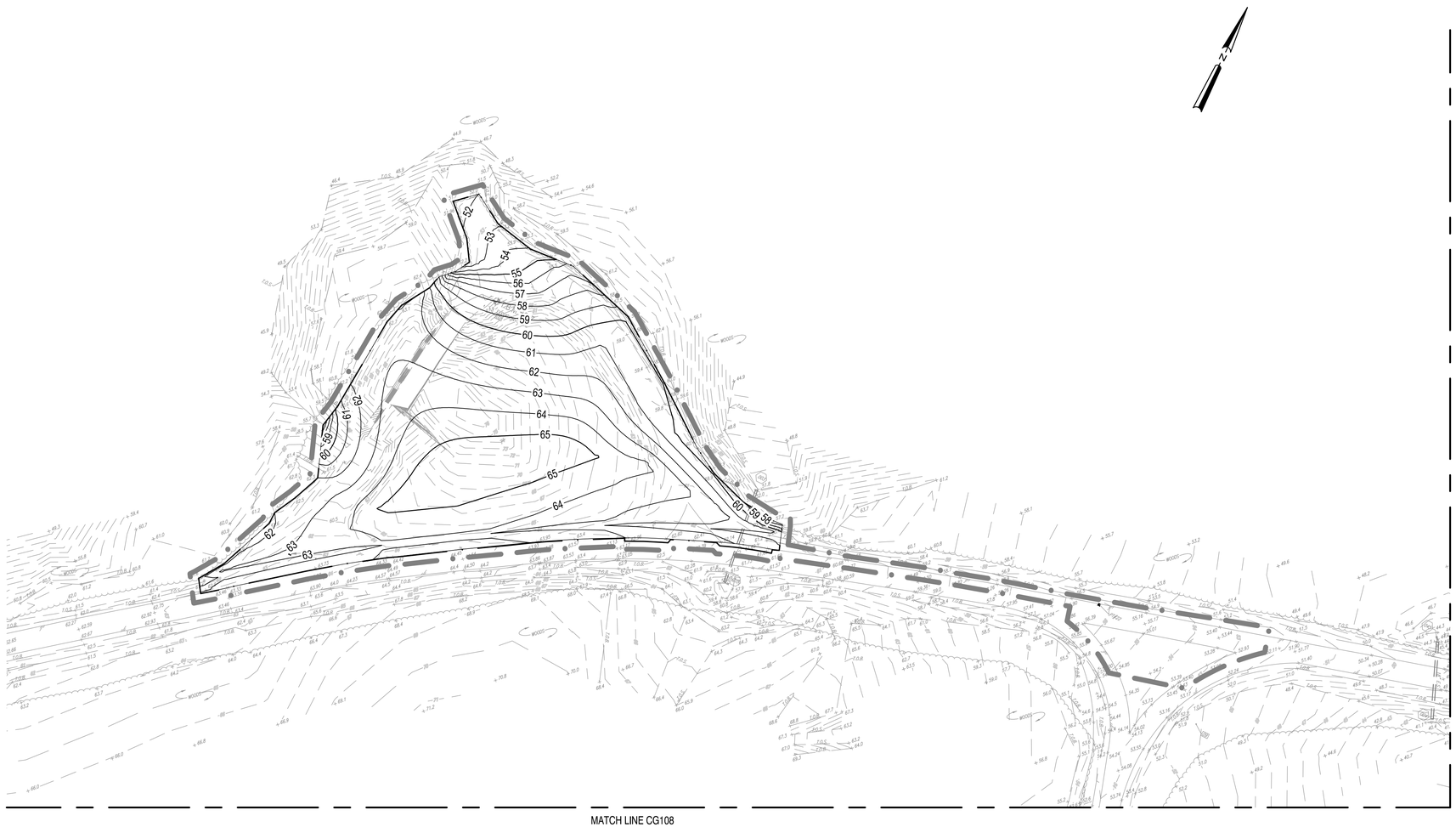
CG108

DRAWFORM REVISION: 14 SEP 2023

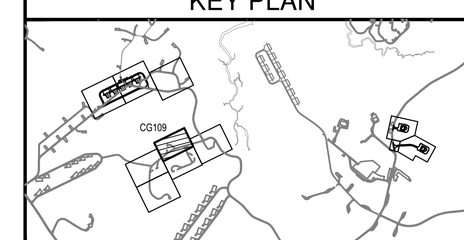
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010 CG701 GRADING PLAN – DEMOLITION SITE.dwg LAYOUT NAME: CG108 PLOTTED: Wednesday, April 01, 2026 – 12:37pm USER: michael.l.hurt5

GENERAL SHEET NOTES

A. SEE SHEET CG106 FOR GENERAL SHEET NOTES.



KEY PLAN



GRAPHIC SCALE

1" = 40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Crosby, Jr.
FOR COMMANDER NAVFAC

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB

PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

GRADING PLAN - DEMOLITION SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941864
SHEET 212 OF 499

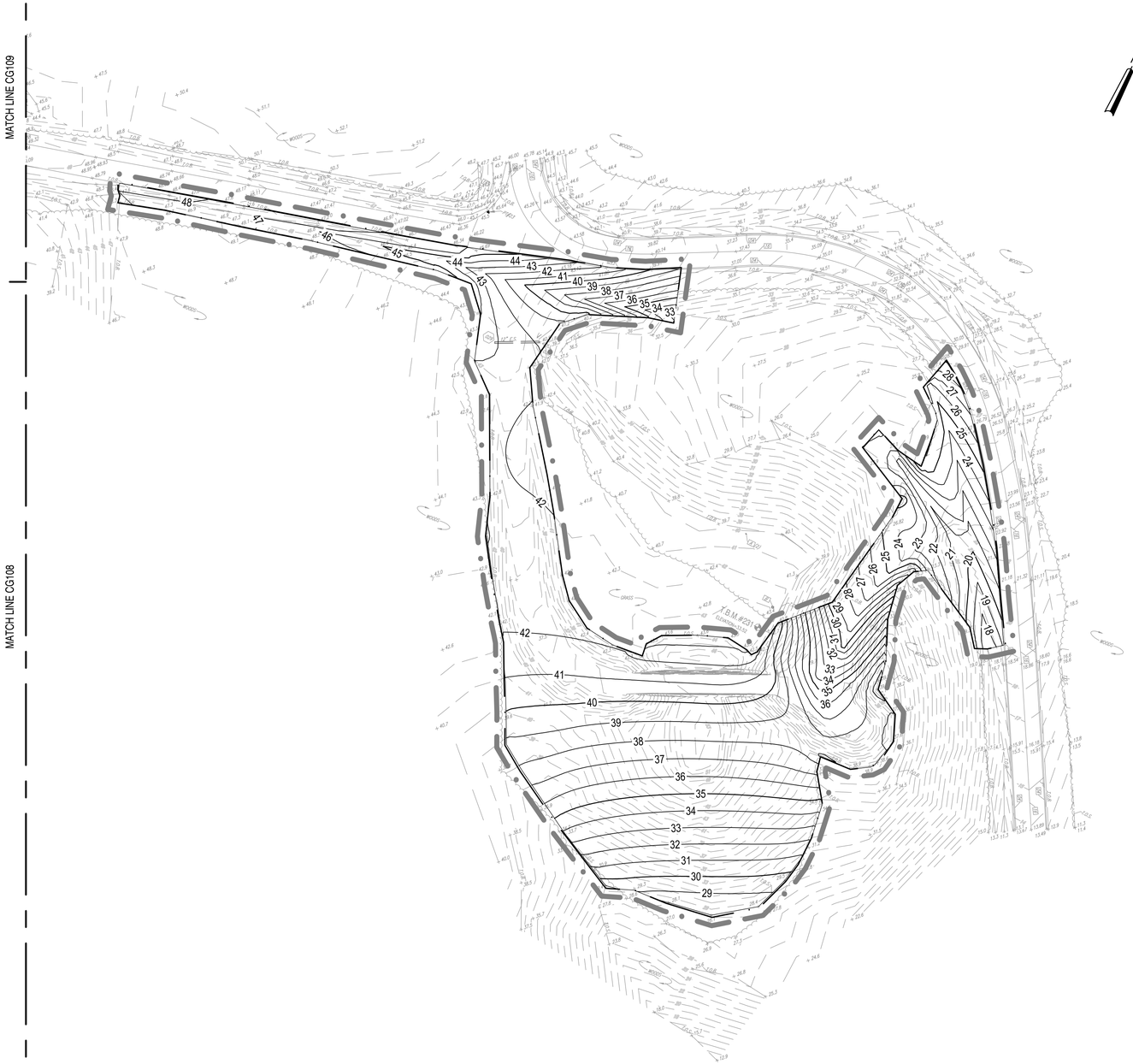
CG109

DRAWFORM REVISION: 14 SEP 2023

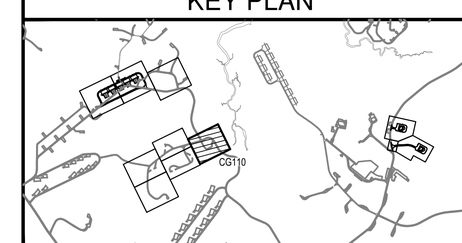
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010 CG701 GRADING PLAN – DEMOLITION SITE.dwg LAYOUT NAME: CG109 PLOTTED: Wednesday, April 01, 2026 – 12:37pm USER: michael.l.hurt5

GENERAL SHEET NOTES

A. SEE SHEET CG106 FOR GENERAL SHEET NOTES.



KEY PLAN



GRAPHIC SCALE

1" = 40' 0' 40' 80'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James J. Grabow, P.E.
FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES WJW	DRW SMT	CHK DLB	
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

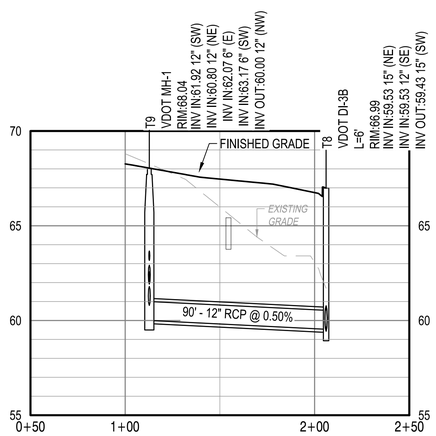
GRADING PLAN - DEMOLITION SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941865
SHEET 213 OF 499

CG110

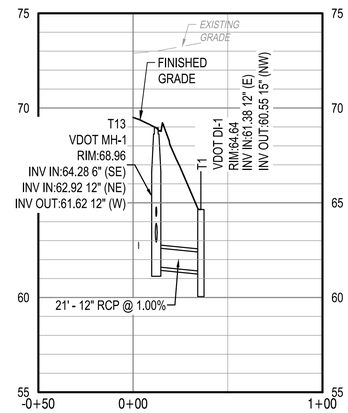
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010 CG701 GRADING PLAN – DEMOLITION SITE.dwg LAYOUT NAME: CG110 PLOTTED: Thursday, April 02, 2026 – 9:43am USER: sarah.m.turner



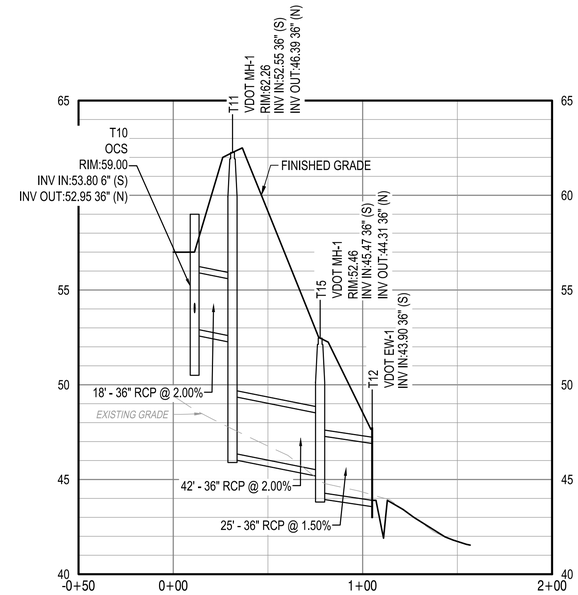
B1 STORM PROFILE T9 TO T8

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



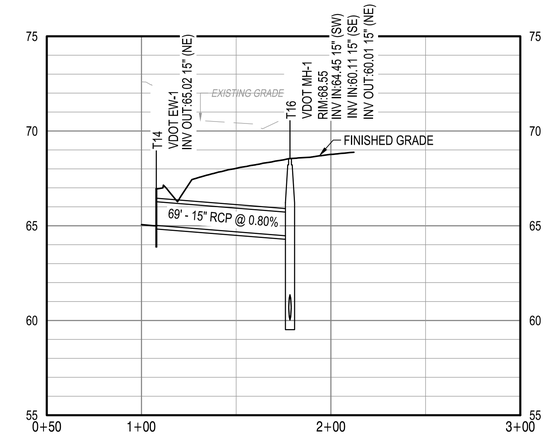
B2 STORM PROFILE T13 TO T1

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



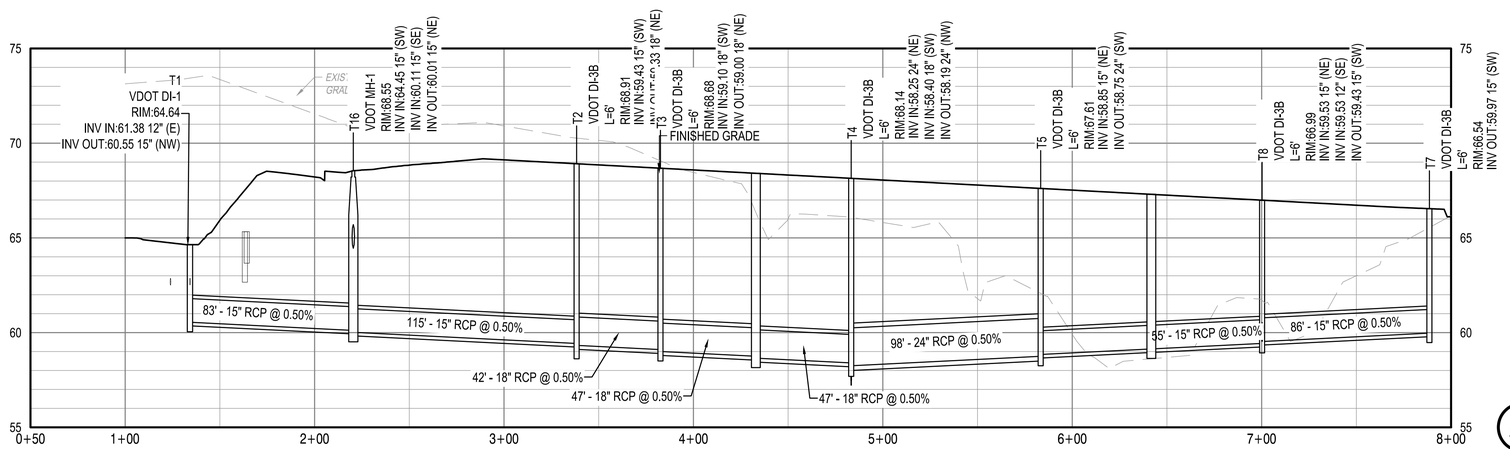
B3 STORM PROFILE T10 TO T12

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



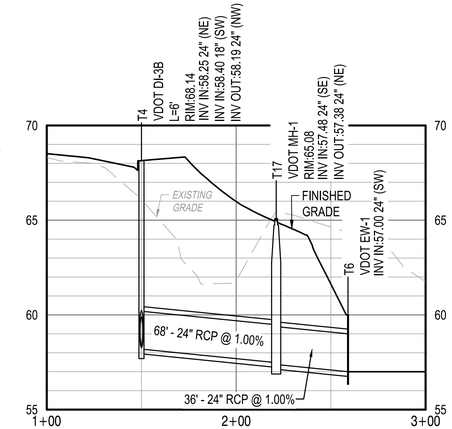
B4 STORM PROFILE T14 TO T2

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A1 STORM PROFILET1 TO T7

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A3 STORM PROFILE T4 TO T6

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG101 AND CG103 FOR GRADING AND DRAINAGE.

GRAPHIC SCALE

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

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

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED James D. Gordon, R.A.

FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES WJW DRW SMT CHK DLB

PM/DM MME/WJW

BRANCH MANAGER DLB

CHIEF ENG/ARCH JWJ

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

DRAINAGE PROFILES - MAGAZINE SITE

SCALE: #####

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

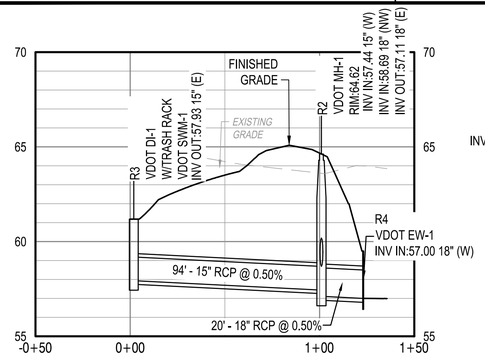
NAVFAC DRAWING NO. 12941866

SHEET 214 OF 499

CG201

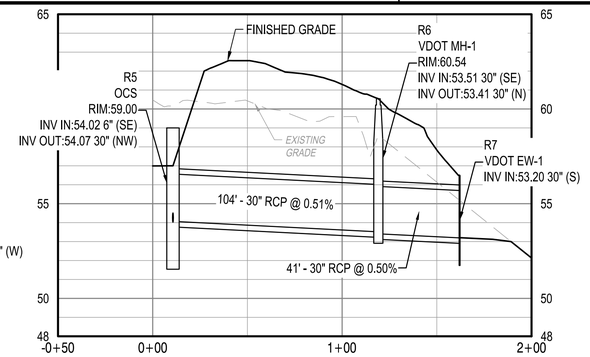
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\IAT\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CG\P171-1737010-MAG2-CG201.dwg LAYOUT NAME: CG201 PLOTTED: Wednesday, April 01, 2026 - 12:38pm USER: michael.l.hart5



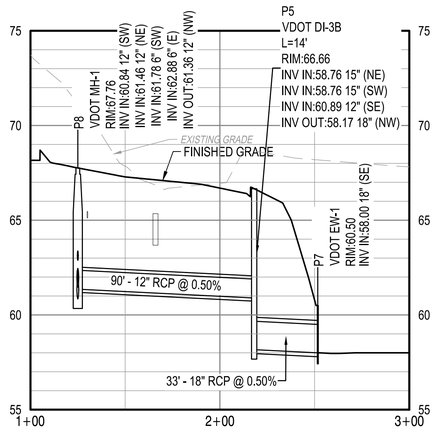
C1 STORM PROFILE R3 TO R4

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



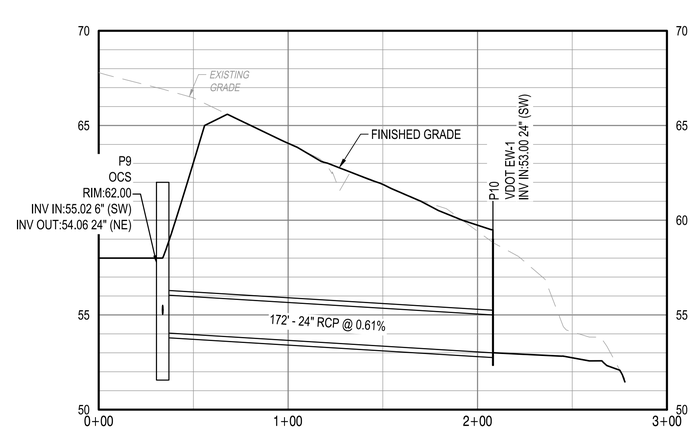
C2 STORM PROFILE R5 TO R7

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



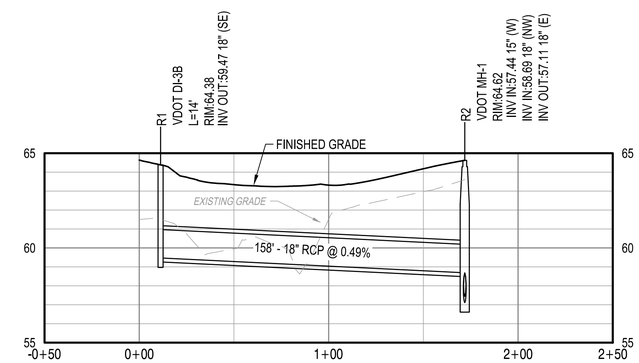
B1 STORM PROFILE P8 TO P7

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



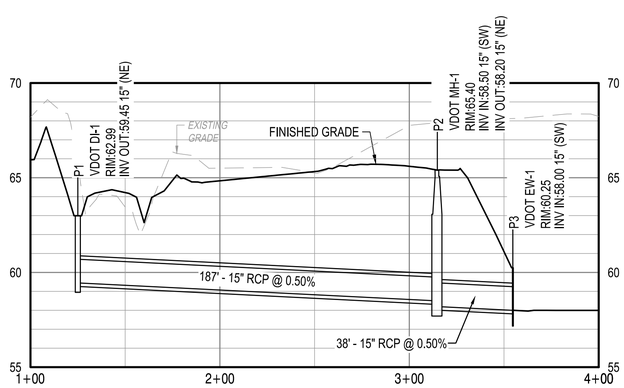
B2 STORM PROFILE P9 TO P10

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



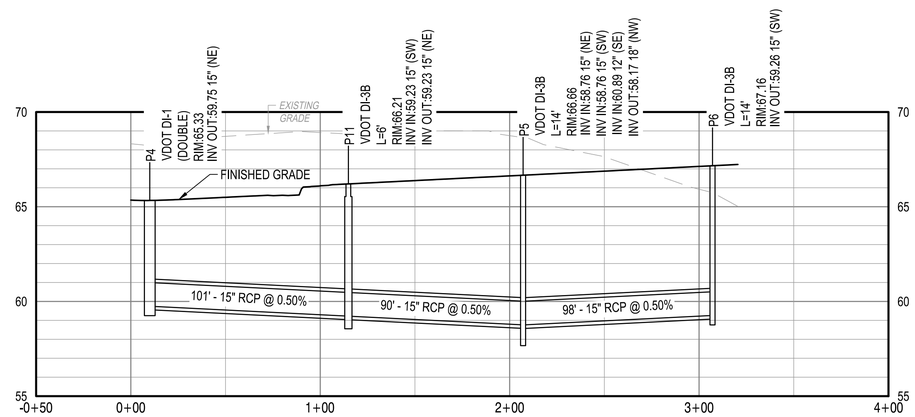
B4 STORM PROFILE R1 TO R2

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A1 STORM PROFILE P1 TO P3

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A2 STORM PROFILE P4 TO P6

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG101 AND CG103 FOR GRADING AND DRAINAGE.

GRAPHIC SCALE

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

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

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 4/22/2026

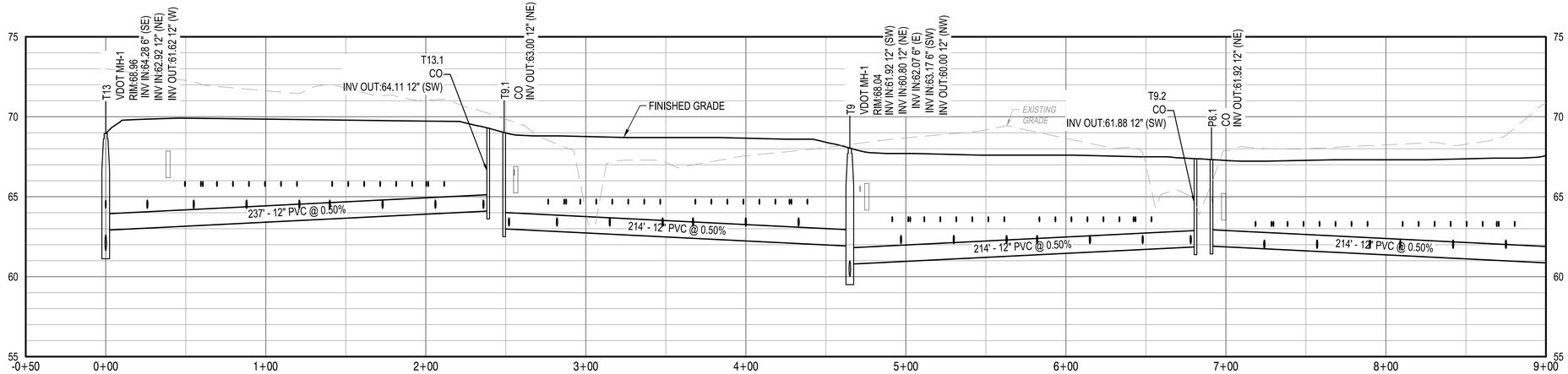
ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW DRW SMT CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
DRAINAGE PROFILES - MAGAZINE SITE

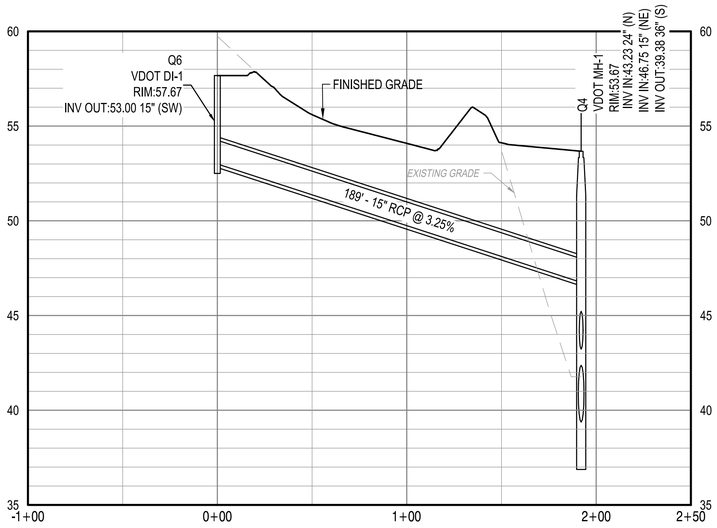
SCALE: AS SHOWN
EPROJECT NO. 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941867
SHEET 215 OF 499
CG202
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010–MAG2–CG202.dwg LAYOUT NAME: CG202 PLOTTED: Wednesday, April 01, 2026 – 12:38pm USER: michael.l.hart5



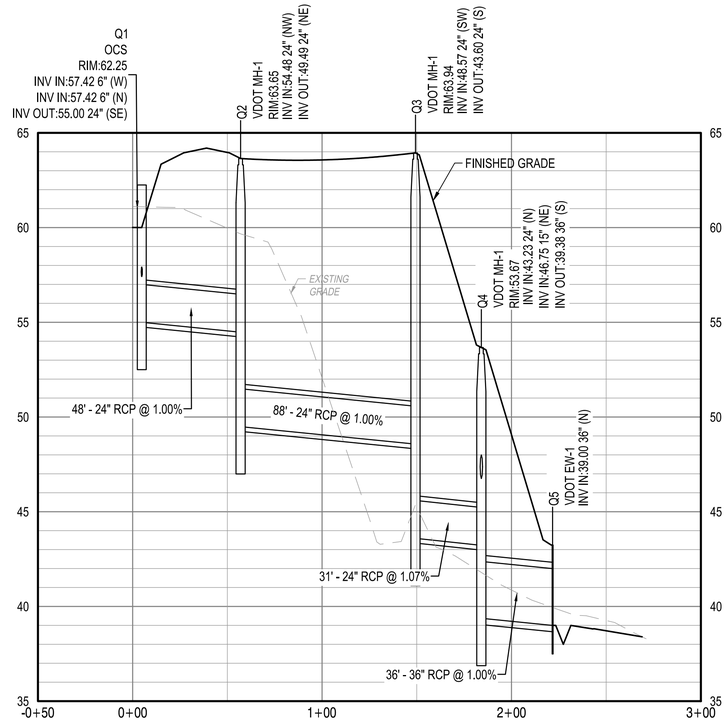
C1 UD COLLECTOR PIPE

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



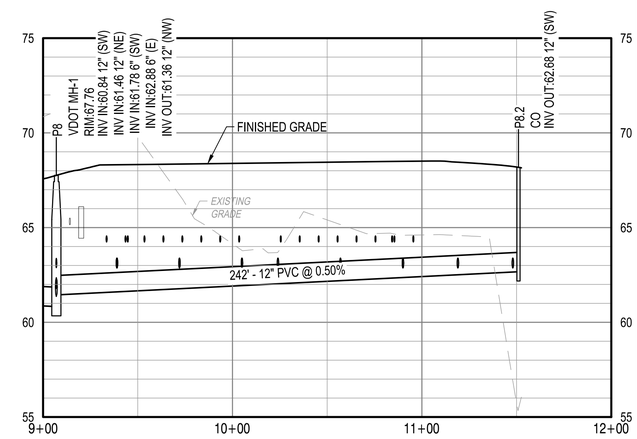
A1 STORM PROFILE Q6 TO Q4

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A3 STORM PROFILE Q1 TO Q5

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL



A4 UD COLLECTOR PIPE (1)

SCALE: 1" = 4' VERTICAL
1" = 40' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG101 AND CG103 FOR GRADING AND DRAINAGE.

GRAPHIC SCALE

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

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

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
John E. Grimsley, R.A.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES

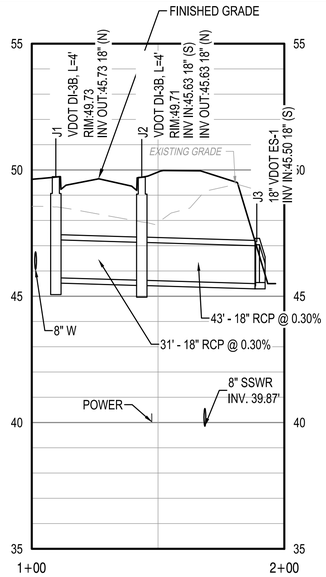
DRAINAGE PROFILES - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO. 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941868
SHEET 216 OF 499

CG203

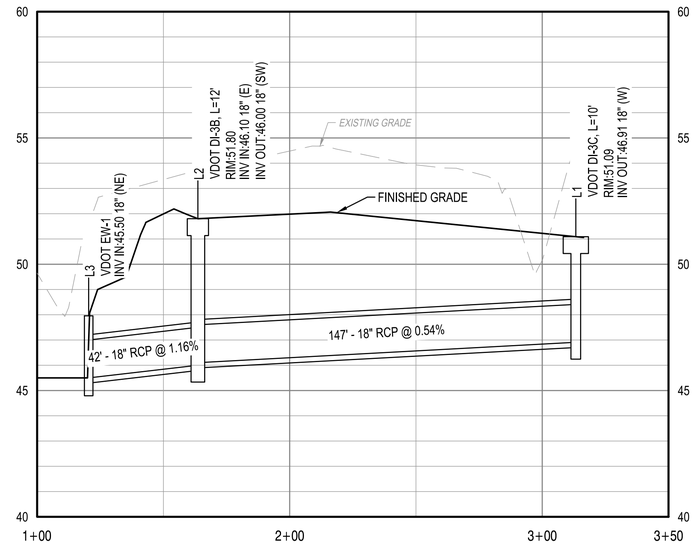
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CG\P171-1737010-MAG2-CG203.dwg LAYOUT NAME: CG203 PLOTTED: Wednesday, April 01, 2026 – 12:39pm USER: michael.l.hart5



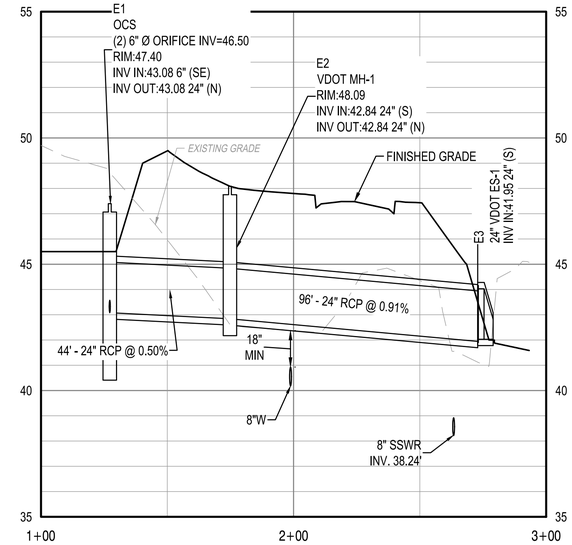
C1 STORM PROFILE J1-J3

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



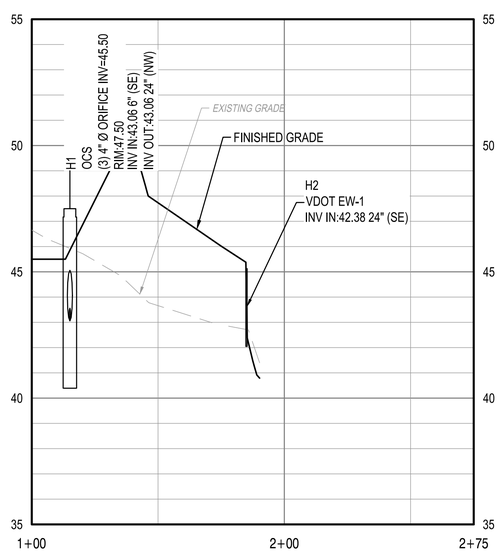
C2 STORM PROFILE L1-L3

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



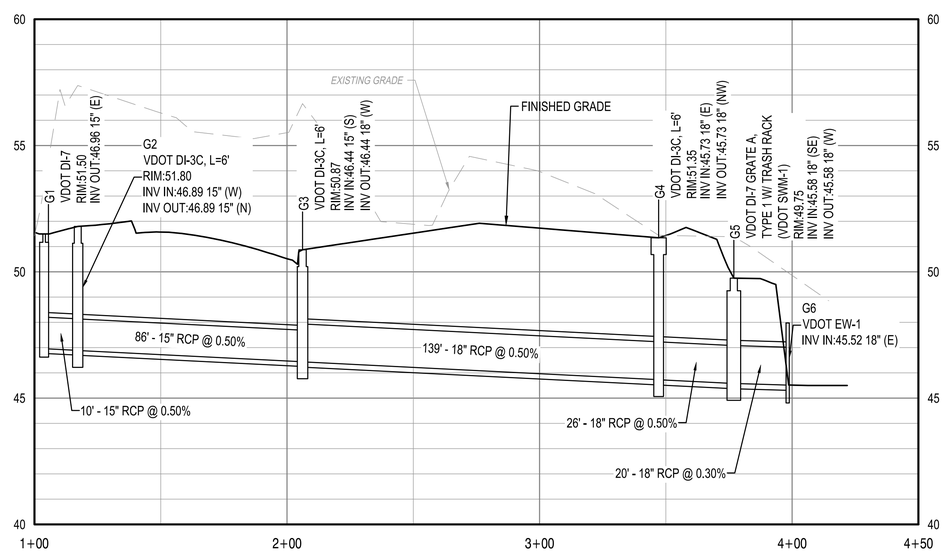
C4 STORM PROFILE E1-E3

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A1 STORM PROFILE H1-H2

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A2 STORM PROFILE G1-G5

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG104 AND CG105 FOR GRADING AND DRAINAGE.

GRAPHIC SCALE

VERTICAL SCALE 1"=3' 0' 3' 6'

HORIZONTAL SCALE 1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
James J. Grosse, P.E.
FOR COMMANDER NAVFAC 4/8/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	DRG	DRW	MTH	CHK	DLB
PM/DM	MME/WJW				
BRANCH MANAGER	DLB				
CHIEF ENG/ARCH	JWJ				
FIRE PROTECTION	HPN				

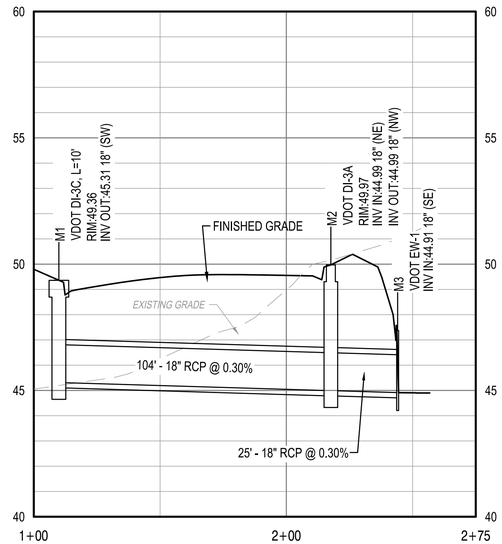
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
DRAINAGE PROFILES - SEGREGATION FACILITIES

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941869
SHEET 217 OF 499

CG204

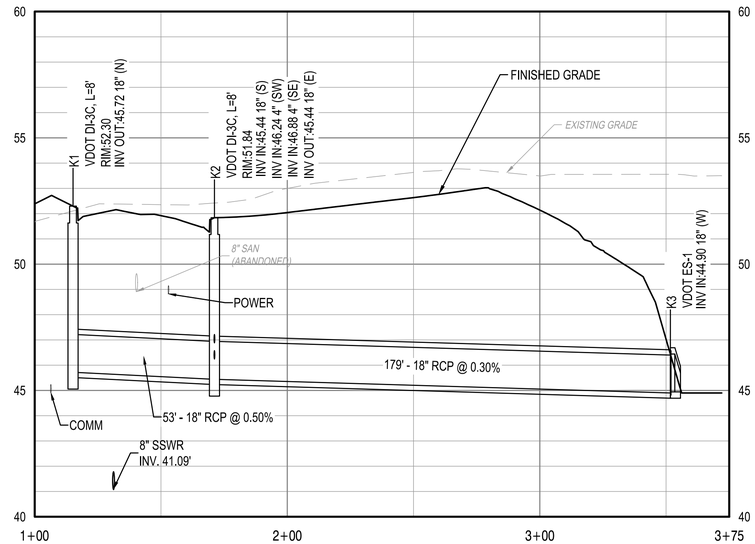
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\YA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG204 PLOTTED: Wednesday, April 01, 2026 - 12:29pm USER: michael.l.bavi5



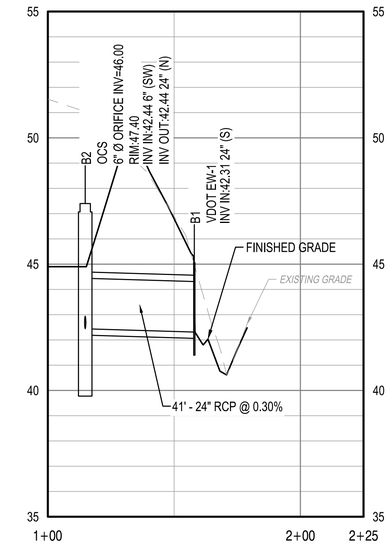
C1 STORM PROFILE A1-A2

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



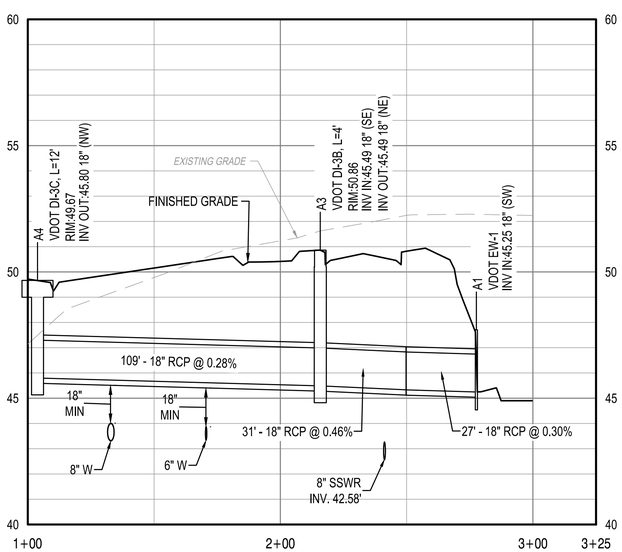
C2 STORM PROFILE K1-K3

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



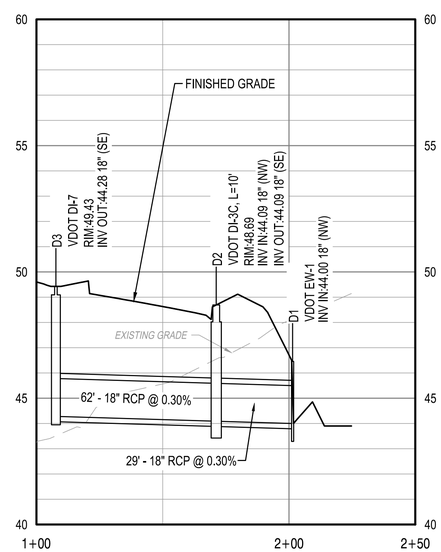
C4 STORM PROFILE B2-B1

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



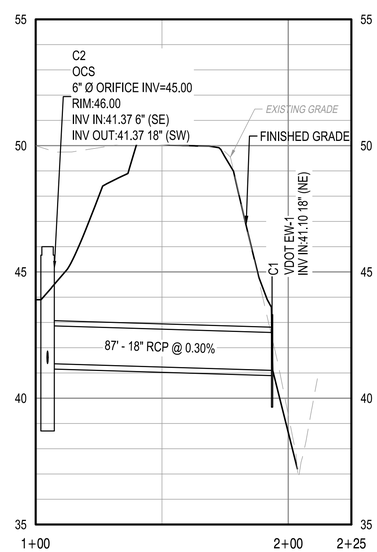
A1 STORM PROFILE A4-A1

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A2 STORM PROFILE D3-D1

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A4 STORM PROFILE C2-C1

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG104 AND CG105 FOR GRADING AND DRAINAGE.

GRAPHIC SCALE

VERTICAL SCALE 1"=3' 0' 3' 6'

HORIZONTAL SCALE 1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James J. Grosse, P.E.
FOR COMMANDER NAVFAC 4/8/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	DRG	DRW	MTH	CHK	DLB
PM/DM	MME/WJW				
BRANCH MANAGER	DLB				
CHIEF ENG/ARCH	JWJ				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

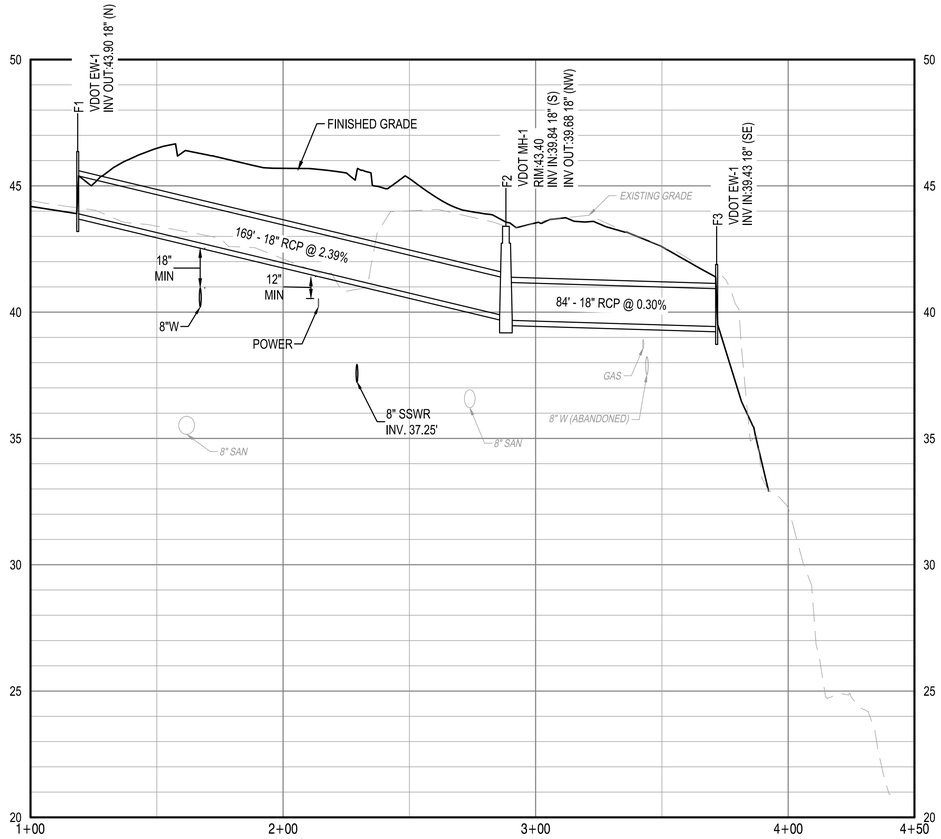
DRAINAGE PROFILES - SEGREGATION FACILITIES

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941870
SHEET 218 OF 499

CG205

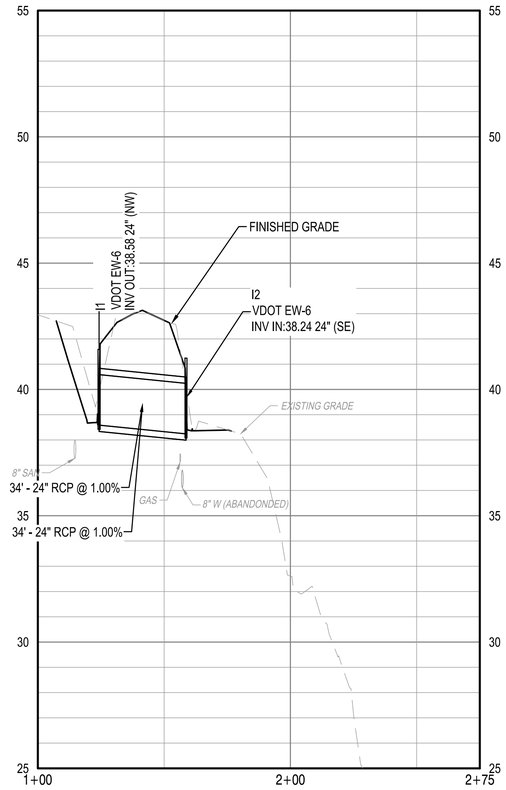
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\YorktownMILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheets\05_CIVIP171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG205 PLOTTED: Wednesday, April 01, 2026 - 12:29pm USER: michael.l.hurd5



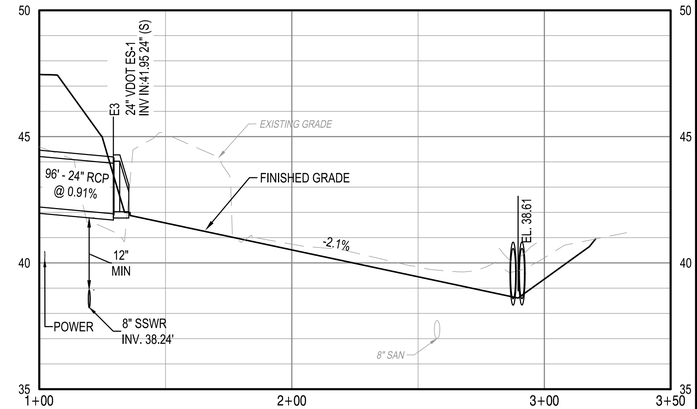
B1 STORM PROFILE F1-F3

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



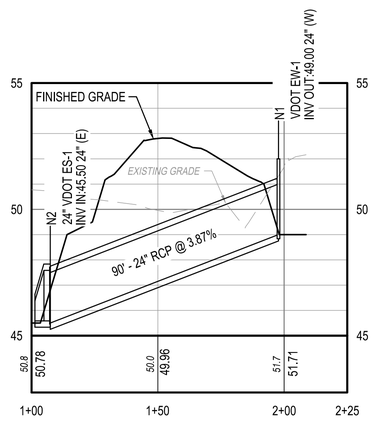
B3 STORM PROFILE J1-J2

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



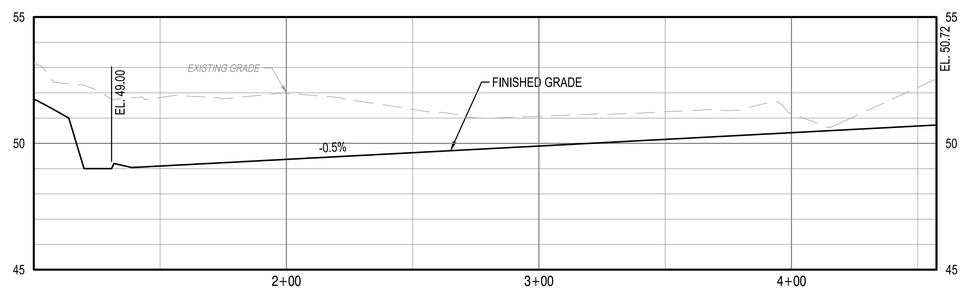
A2 CENTER LINE PROFILE - CHANNEL A

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A1 CENTER LINE PROFILE - DITCH C

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



A2 CENTER LINE PROFILE - DITCH D

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG104 AND CG105 FOR DITCH LAYOUT.

GRAPHIC SCALE

VERTICAL SCALE 1"=3' 0' 3' 6'

HORIZONTAL SCALE 1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
Digitally signed by Michael J. Hartman, P.E.
FOR COMMANDER NAVFAC 4/26/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	DRG	DRW	MTH	CHK	DLB
PM/DM	MME/WJW				
BRANCH MANAGER	DLB				
CHIEF ENG/ARCH	JWJ				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

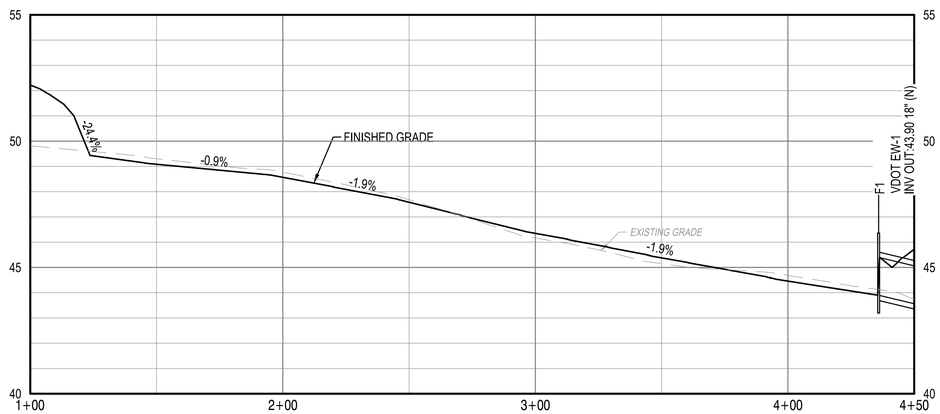
DITCH PROFILES - SEGREGATION FACILITIES

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941871
SHEET 219 OF 499

CG206

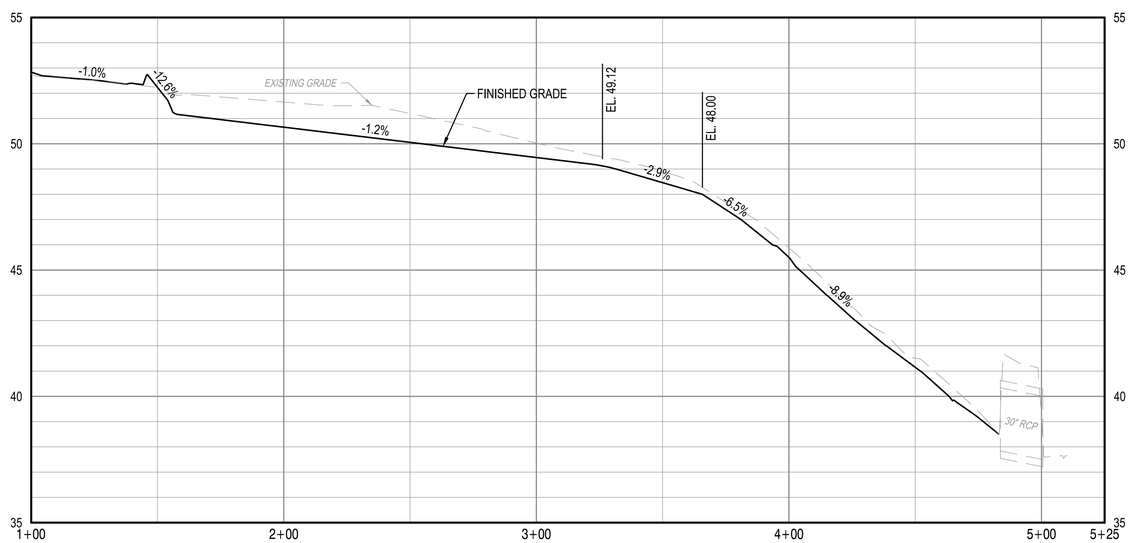
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\WA\Yorktown\ML\CONX\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV\P171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG206 PLOTTED: Wednesday, April 01, 2026 - 12:39pm USER: michael.hart5



C1 CENTER LINE PROFILE - CHANNEL B

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL



C1 CENTER LINE PROFILE - DITCH E

SCALE: 1" = 3' VERTICAL
1" = 30' HORIZONTAL

GENERAL SHEET NOTES

A. SEE SHEETS CG104 AND CG105 FOR DITCH LAYOUT.

GRAPHIC SCALE

VERTICAL SCALE 1"=3' 0' 3' 6'

HORIZONTAL SCALE 1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Delaney, P.E.
FOR COMMANDER NAVFAC 4/22/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES DRG | DRW MTH | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

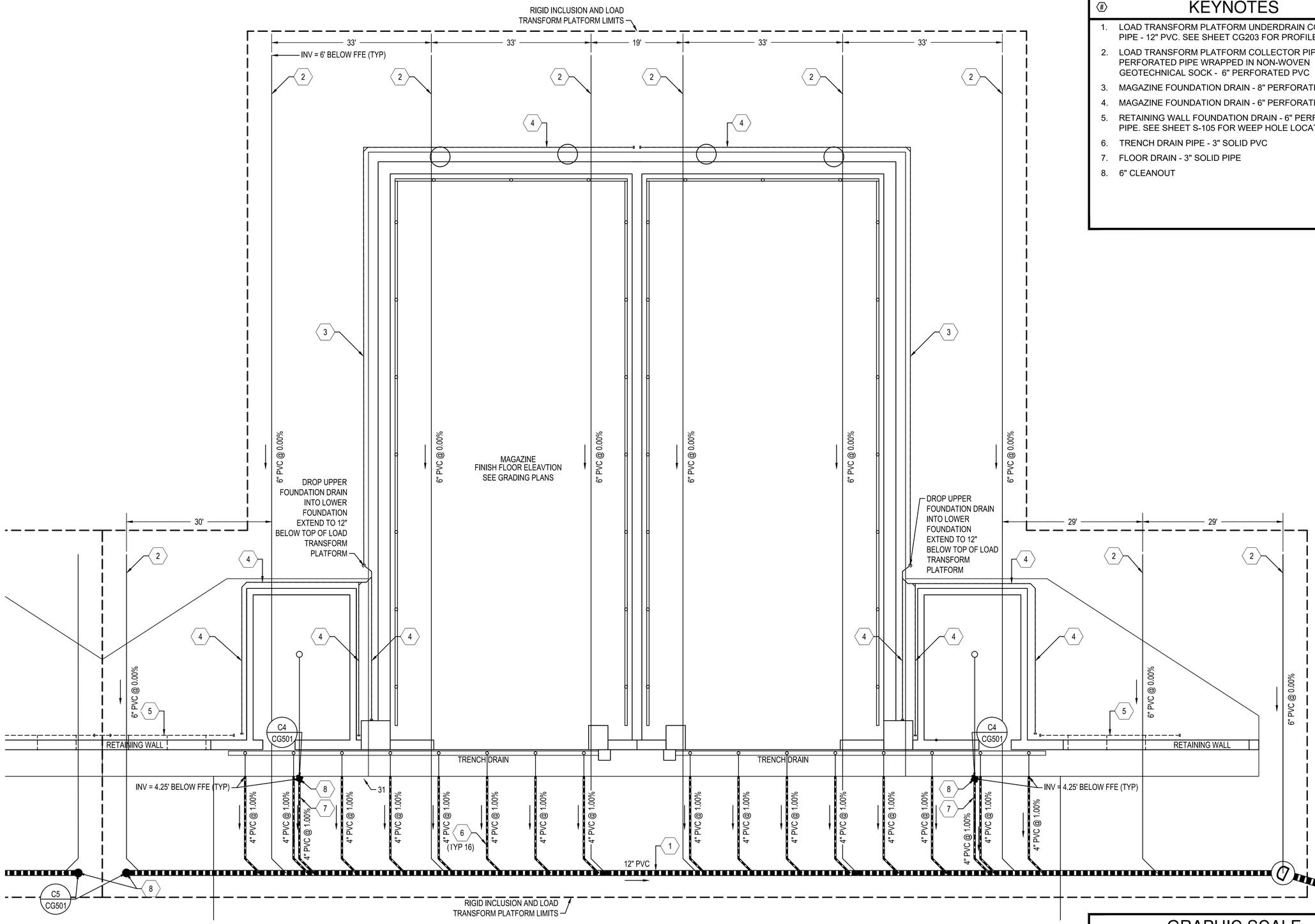
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
DITCH PROFILES - SEGREGATION FACILITIES

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941872
SHEET 220 OF 499

CG207

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NAVY\ROICNWI\BLCONV2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet05_CN\P171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG207 PLOTTED: Wednesday, April 01, 2026 - 12:39pm USER: michael.t.harris



KEYNOTES

1. LOAD TRANSFORM PLATFORM UNDERDRAIN COLLECTOR PIPE - 12" PVC. SEE SHEET CG203 FOR PROFILE.
2. LOAD TRANSFORM PLATFORM COLLECTOR PIPE - 6" PERFORATED PIPE WRAPPED IN NON-WOVEN GEOTECHNICAL SOCK - 6" PERFORATED PVC
3. MAGAZINE FOUNDATION DRAIN - 8" PERFORATED PIPE
4. MAGAZINE FOUNDATION DRAIN - 6" PERFORATED PIPE
5. RETAINING WALL FOUNDATION DRAIN - 6" PERFORATED PIPE. SEE SHEET S-105 FOR WEEP HOLE LOCATIONS
6. TRENCH DRAIN PIPE - 3" SOLID PVC
7. FLOOR DRAIN - 3" SOLID PIPE
8. 6" CLEANOUT

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
JAMES E. DEVINE, P.E.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB

PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

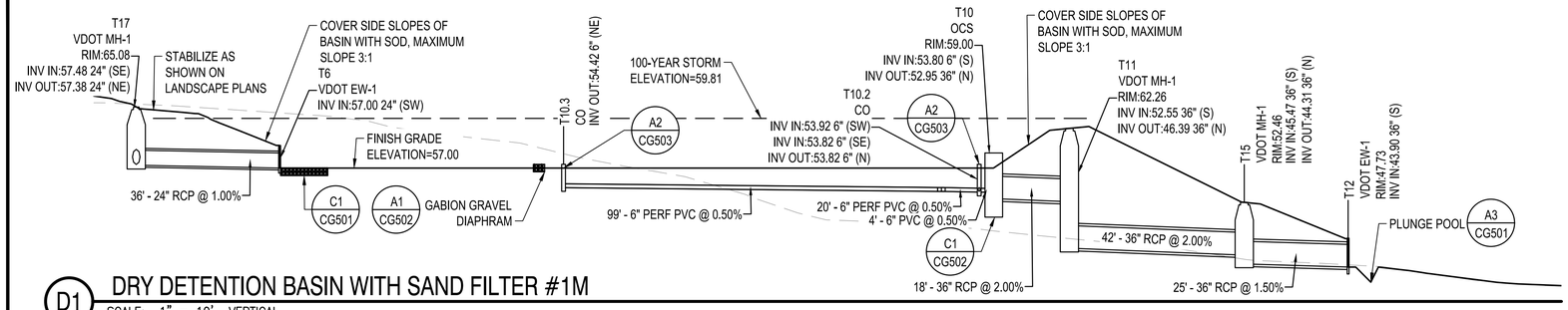
TYPICAL UNDERDRAIN PLAN

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941873
SHEET 221 OF 499

CG401

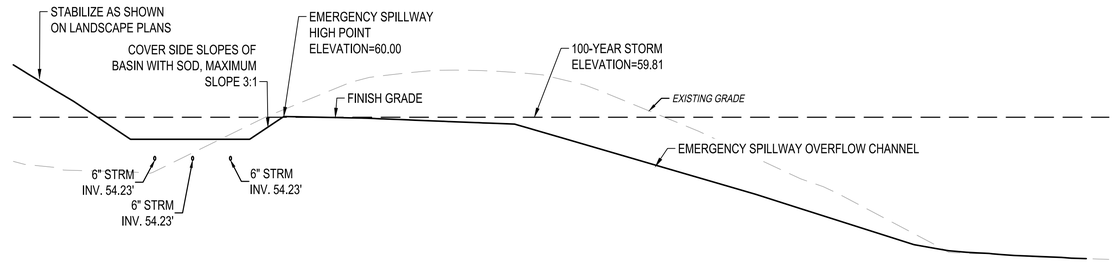
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\YAYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheets\05_CIV\P171-1737010-MAAGZ-CG401.dwg PLOTTED: Wednesday, April 1, 2026 12:40:25 PM USER: sarah.m.turner



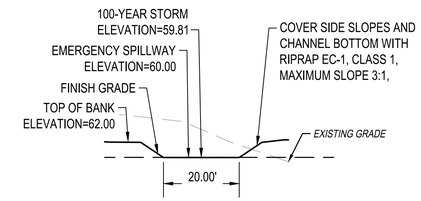
D1 DRY DETENTION BASIN WITH SAND FILTER #1M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



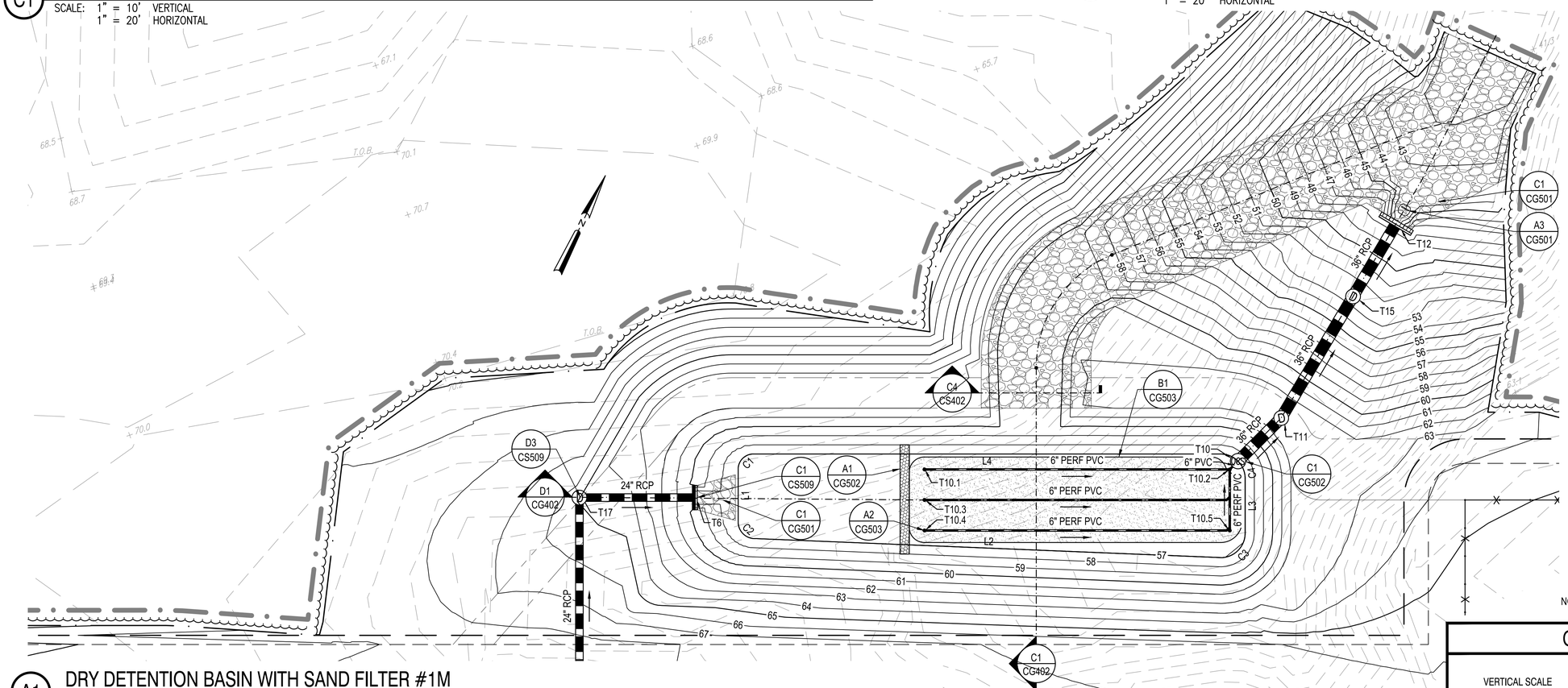
C1 DRY DETENTION BASIN WITH SAND FILTER #1M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



C4 DRY DETENTION BASIN WITH SAND FILTER #1M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A1 DRY DETENTION BASIN WITH SAND FILTER #1M

SCALE: 1" = 20'

STORM EVENT PONDING LEVELS
BASIN #1
1-IN = 57.62
LID = 58.10
1-YR = 58.70
2-YR = 59.08
10-YR = 59.46
100-YR = 59.81

NOTE: SEE DETAILS ON PLAN SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA

GRAPHIC SCALE

VERTICAL SCALE 1"=10' 0' 10' 20'

HORIZONTAL SCALE 1"=20' 0' 10' 20' 40'

SEGMENT TABLE

LINE #/CURVE #	LENGTH	DIRECTION	RADIUS
C1	7.779	089.1363	5.000
C2	8.627	090.4004	5.468
C3	12.339	088.3709	8.000
C4	12.567	090.0064	8.000
L1	17.576	N26° 08' 48.55"W	
L2	152.616	S66° 11' 32.42"W	
L3	17.951	S26° 08' 56.23"E	
L4	152.999	N63° 51' 16.56"E	

MARK DESCRIPTION DATE

NAVFAC

SEAL

A/E INFO

APPROVED
Jason S. Delahay, R.A.
FOR COMMANDER NAVFAC 4/26/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW DRW SMT CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

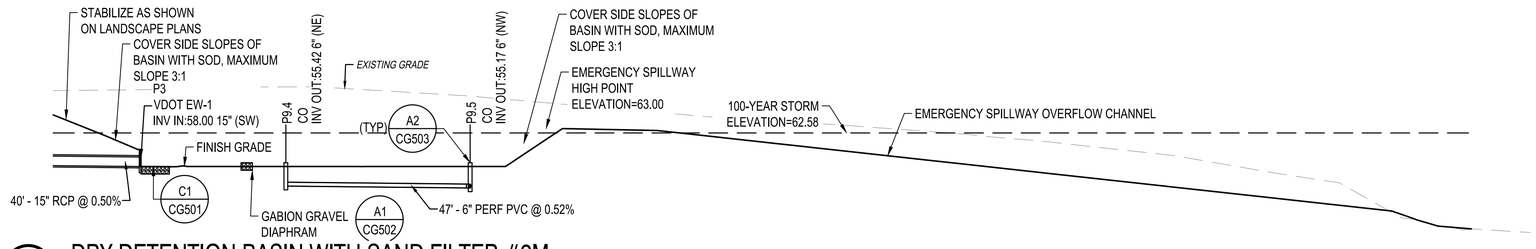
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC:CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941874
SHEET 222 OF 499
CG402

DRAWFORM REVISION: 14 SEP 2023

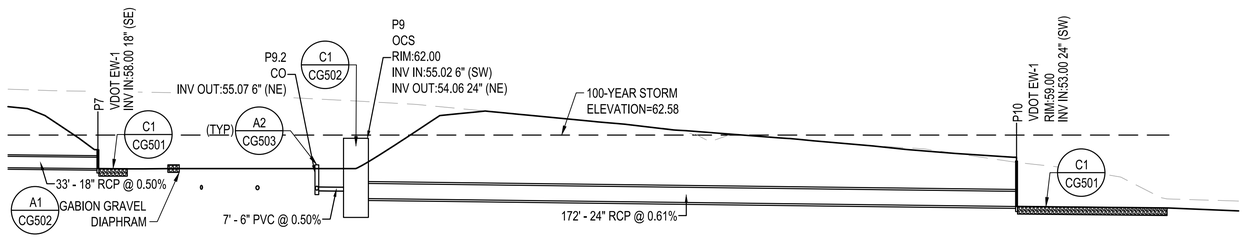
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-MAGZ-CG402.dwg LAYOUT NAME: CG402 PLOTTED: Wednesday, April 01, 2026 - 12:41pm USER: michael.l.hart5

SEGMENT TABLE			
LINE #/CURVE #	LENGTH	DIRECTION	RADIUS
C1	7.779	089.1378	5.000
C2	7.854	090.0000	5.000
C3	7.854	090.0000	5.000
C4	7.854	090.0000	5.000
L1	39.000	N26° 08' 56.23"W	
L2	69.007	S63° 01' 28.93"W	
L3	38.005	S26° 08' 56.28"E	
L4	69.001	N63° 47' 18.89"E	



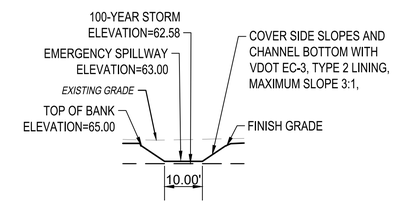
D1 DRY DETENTION BASIN WITH SAND FILTER #2M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



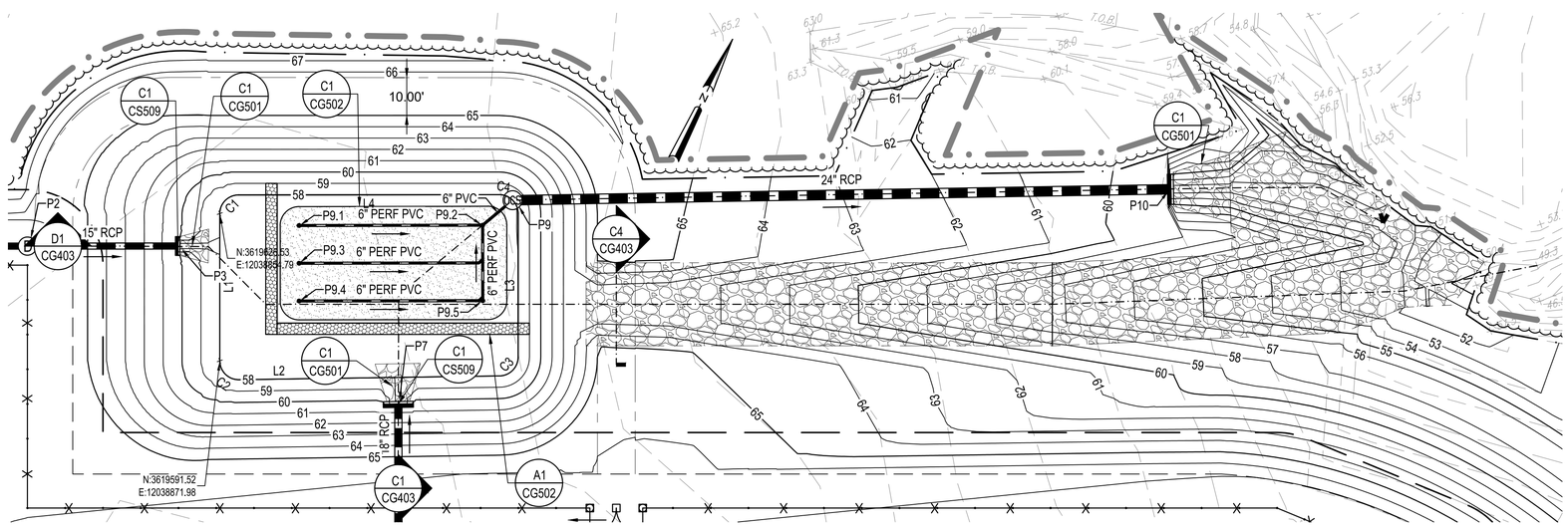
C1 DRY DETENTION BASIN WITH SAND FILTER #2M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



C4 DRY DETENTION BASIN WITH SAND FILTER #2M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A1 DRY DETENTION BASIN WITH SAND FILTER #2M

SCALE: 1" = 20'

STORM EVENT PONDING LEVELS
BASIN #2
1-IN = 58.82
LID = 59.20
1-YR = 60.08
2-YR = 60.57
10-YR = 61.89
100-YR = 62.58

NOTE: SEE DETAILS ON PLAN SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA

GRAPHIC SCALE

1"=10' 0' 10' 20'

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
Vince E. Greco, R.A.
FOR COMMANDER NAVFAC 4/01/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW DRW SMT CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MID-LANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - MAGAZINE SITE

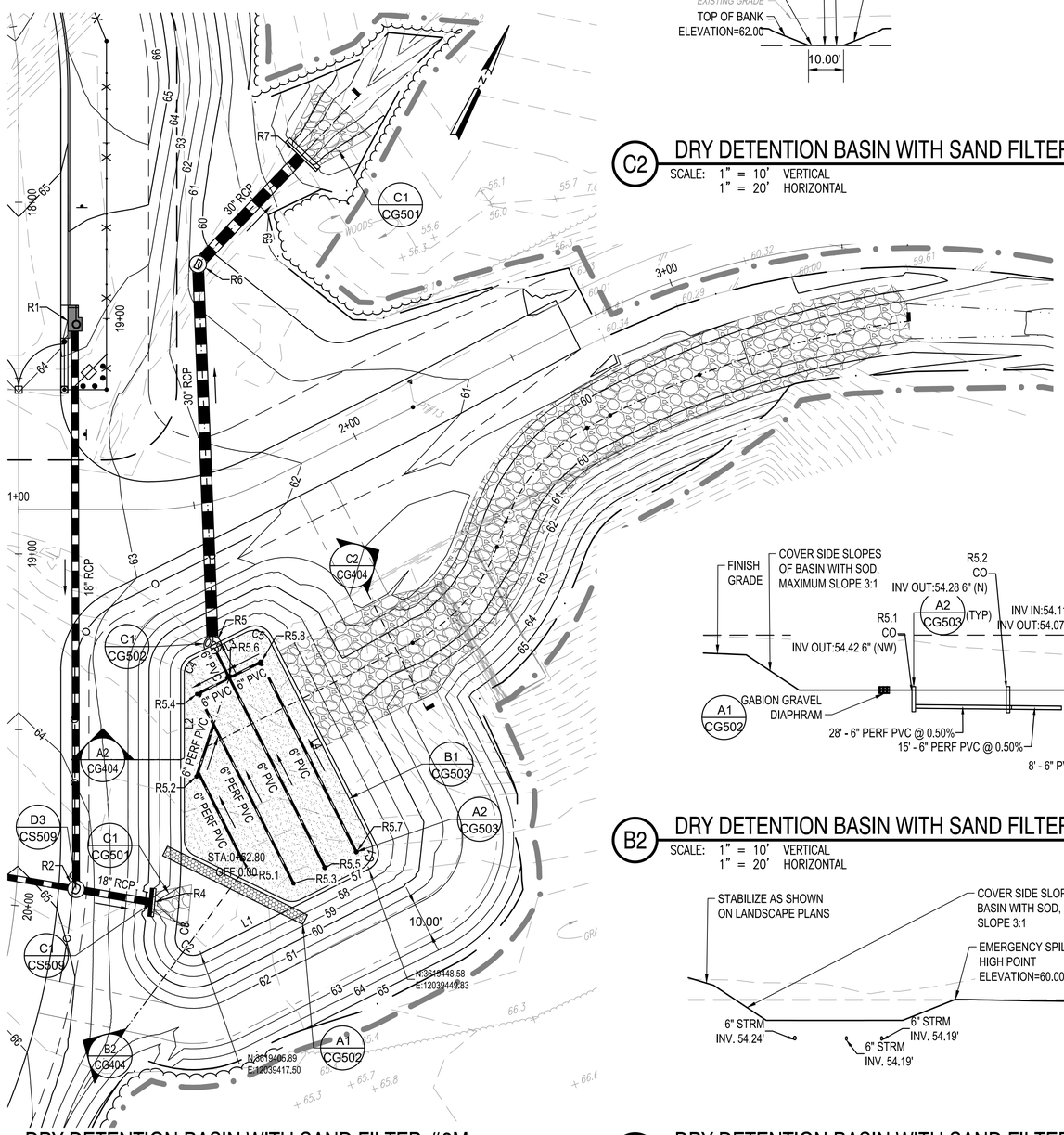
SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941875
SHEET 223 OF 499

CG403

DRAWFORM REVISION: 14 SEP 2023

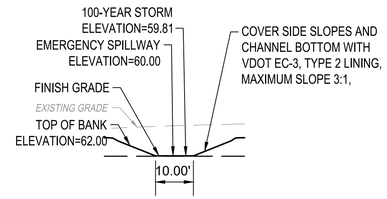
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIVIL\P171-1737010-MAGZ-CG403.dwg LAYOUT NAME: CG403 PLOTTED: Wednesday, April 01, 2026 - 12:42pm USER: michael.l.hart5

SEGMENT TABLE			
LINE #/CURVE #	LENGTH	DIRECTION	RADIUS
C1	7.916	090.7153	5.000
C2	10.809	123.8563	5.000
C3	31.927	008.9043	205.442
C4	5.522	063.2796	5.000
C5	7.854	089.9986	5.000
L1	53.548	N37° 07' 50.46"E	
L2	43.140	S26° 08' 56.23"E	
L3	18.180	S37° 07' 50.46"W	
L4	66.796	N52° 52' 09.54"W	



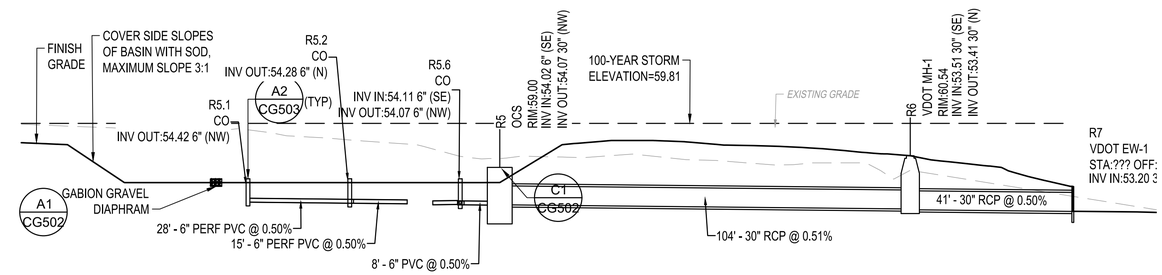
A1 DRY DETENTION BASIN WITH SAND FILTER #3M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



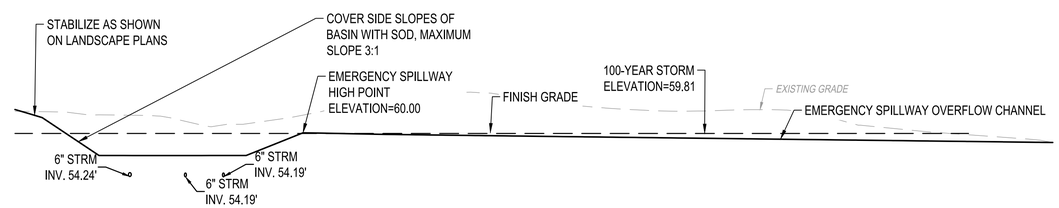
C2 DRY DETENTION BASIN WITH SAND FILTER #3M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



B2 DRY DETENTION BASIN WITH SAND FILTER #3M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A2 DRY DETENTION BASIN WITH SAND FILTER #3M

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

STORM EVENT PONDING LEVELS
BASIN #3
1-IN = 57.66
LID = 58.15
1-YR =59.10
2-YR = 59.25
10-YR = 59.47
100-YR = 59.76

NOTE: SEE DETAILS ON PLAN SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA

GRAPHIC SCALE

1"=10' 0' 10' 20'

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Kirkman, P.E.
FOR COMMANDER NAVFAC 4/22/2026

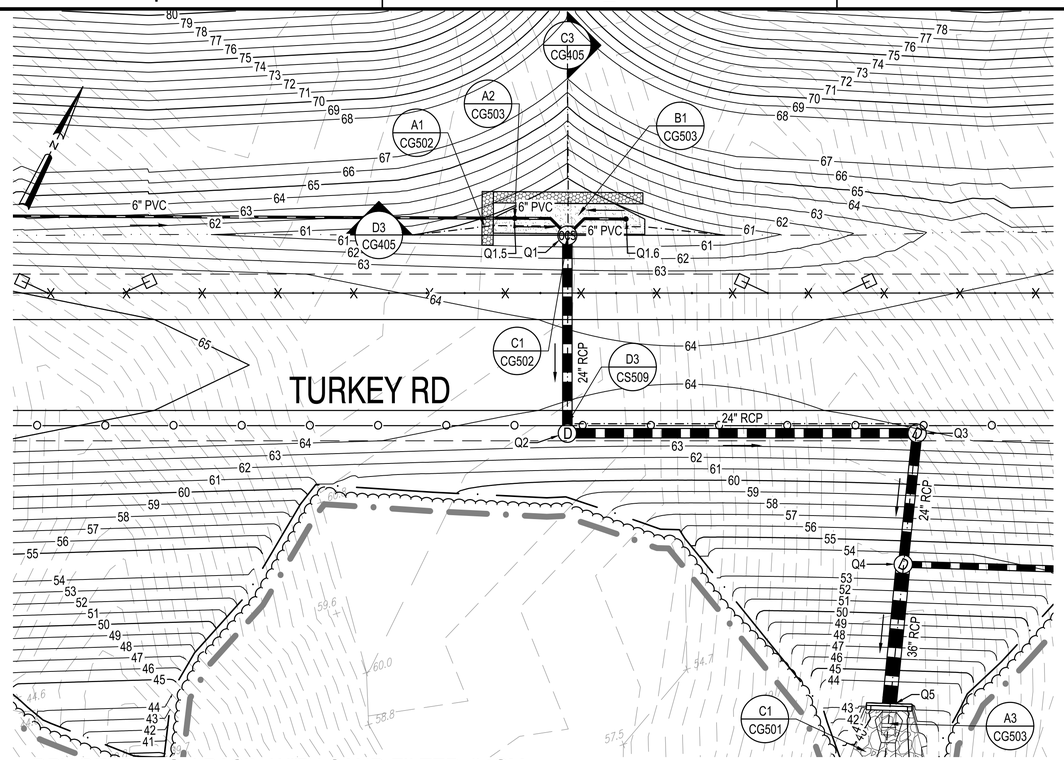
ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026
DES WJW DRW SMT CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941876
SHEET 224 OF 499
CG404
DRAWFORM REVISION: 14 SEP 2023

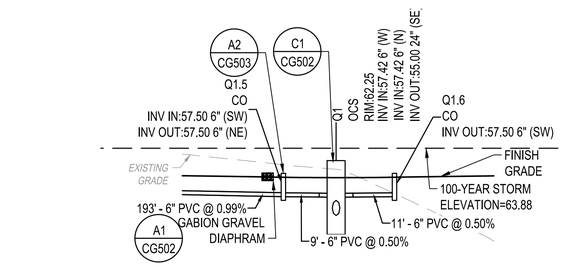
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIVIL\P171-1737010-MAG2-CG404.dwg LAYOUT NAME: CG404 PLOTTED: Wednesday, April 01, 2026 - 12:43pm USER: michael.l.hart5

STORM EVENT PONDING LEVELS	STORM EVENT PONDING LEVELS	STORM EVENT PONDING LEVELS
BASIN #4A	BASIN #4B	BASIN #4C
1-IN = 64.38	1-IN = 62.40	1-IN = 60.72
LID = 65.01	LID = 63.01	LID = 61.08
1-YR = 65.16	1-YR = 63.25	1-YR = 62.08
2-YR = 65.22	2-YR = 63.36	2-YR = 62.40
10-YR = 65.35	10-YR = 65.35	10-YR = 62.57
100-YR = 65.54	100-YR = 63.88	100-YR = 62.78



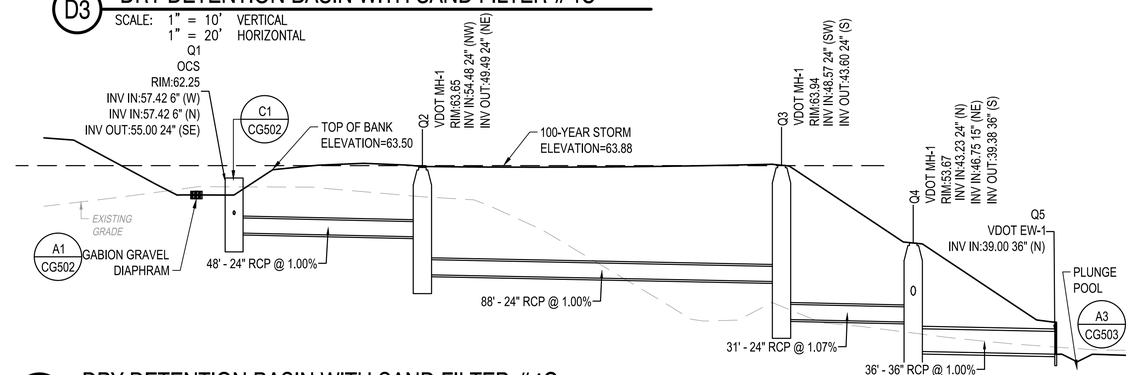
C1 DRY DETENTION BASIN WITH SAND FILTER #4CM

SCALE: 1" = 20'



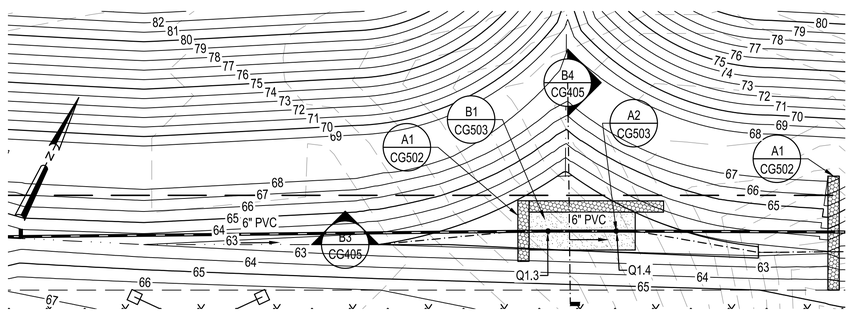
D3 DRY DETENTION BASIN WITH SAND FILTER #4C

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



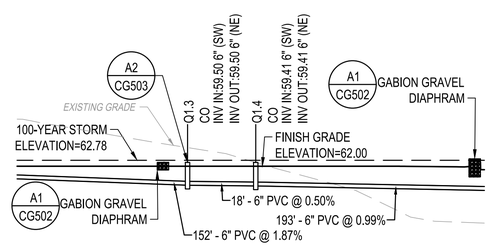
C3 DRY DETENTION BASIN WITH SAND FILTER #4C

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



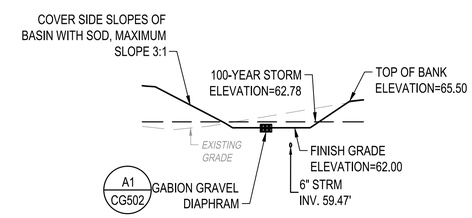
B1 DRY DETENTION BASIN WITH SAND FILTER #4BM

SCALE: 1" = 20'



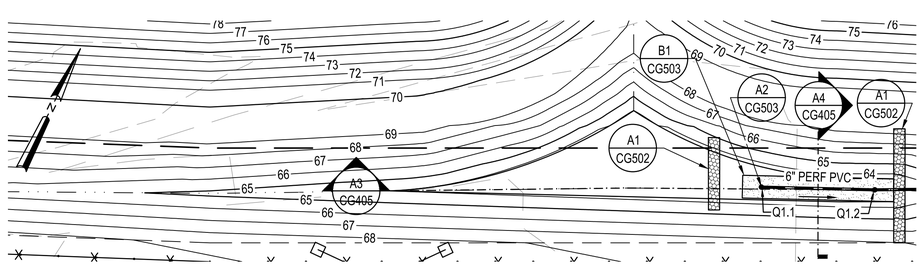
B3 DRY DETENTION BASIN WITH SAND FILTER #4B

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



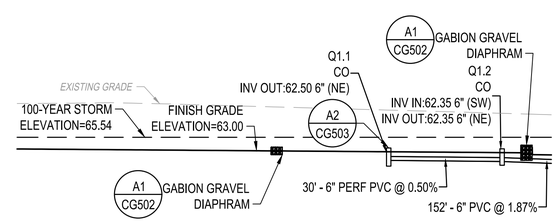
B4 DRY DETENTION BASIN WITH SAND FILTER #4B

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



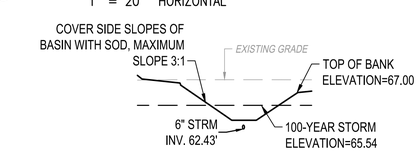
A1 DRY DETENTION BASIN WITH SAND FILTER #4AM

SCALE: 1" = 20'



A3 DRY DETENTION BASIN WITH SAND FILTER #4A

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A4 DRY DETENTION BASIN WITH SAND FILTER #4A

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

NOTE: SEE DETAILS ON PLAN SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA

GRAPHIC SCALE

1"=10' 0' 10' 20'

1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James A. Gaskins, P.E.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW	SMT	CHK	DLB

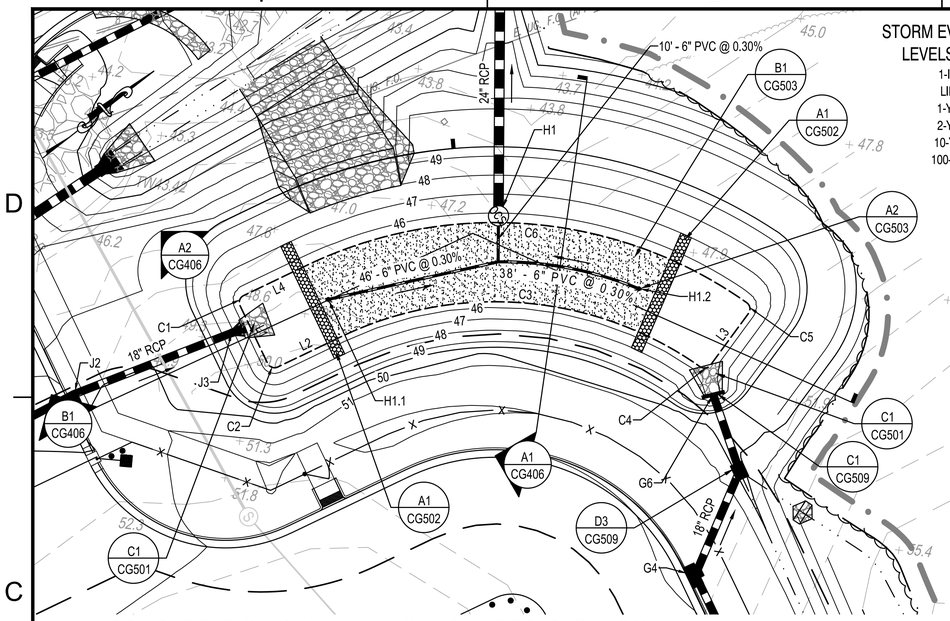
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941877
SHEET 225 OF 499
CG405

DRAWFORM REVISION: 14 SEP 2023

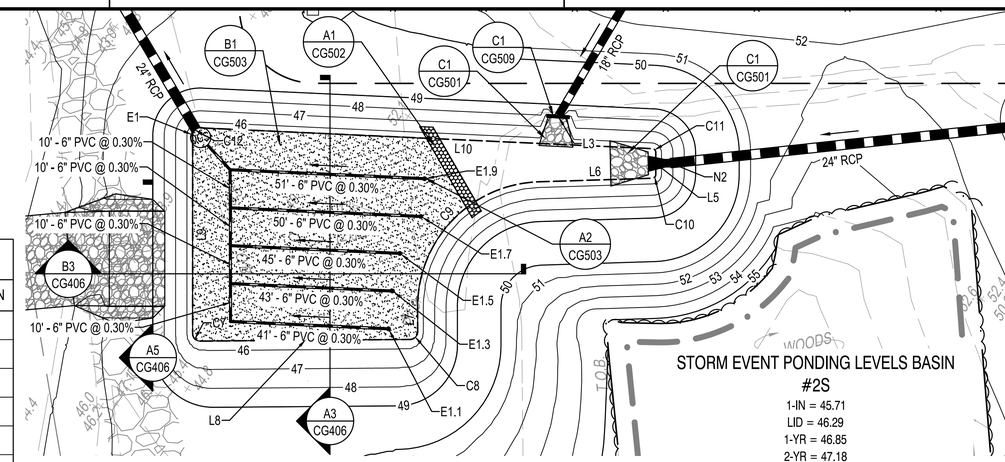
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171–1737010–MAG2–CG405.dwg LAYOUT NAME: CG405 PLOTTED: Wednesday, April 01, 2026 – 12:44pm USER: michael.l.hart5



C1 DRY DETENTION BASIN WITH SAND FILTER, BASIN #1S

SCALE: 1" = 20'

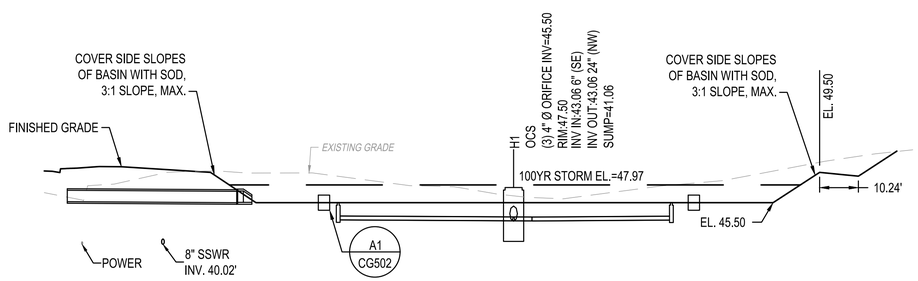
BASIN #1			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C1	3.14'	2.00'	S32° 32' 14.27"E
C2	3.14'	2.00'	N57° 27' 45.73"E
C3	99.65'	94.05'	N42° 49' 03.59"E
C4	3.10'	2.00'	N28° 46' 09.29"E
C5	3.18'	2.00'	N61° 08' 29.54"W
C6	122.11'	114.95'	S42° 55' 07.77"W
L1	16.90'		S77° 32' 14.27"E
L2	18.57'		N12° 27' 45.73"E
L3	16.90'		N15° 38' 03.29"W
L4	18.62'		S12° 27' 45.83"W



C3 DRY DETENTION BASIN WITH SAND FILTER, BASIN #2S

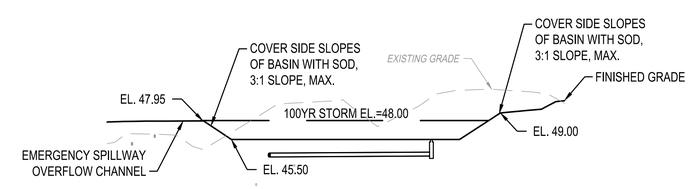
SCALE: 1" = 20'

BASIN #2			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C7	3.16'	2.00'	S32° 45' 49.81"E
C8	3.13'	2.00'	N57° 14' 14.93"E
C9	50.80'	33.00'	N56° 33' 55.69"E
C10	1.54'	1.00'	N56° 33' 15.68"E
C11	1.52'	1.00'	N31° 13' 48.94"W
C12	3.23'	2.00'	S58° 46' 46.34"W
L5	5.82'		N12° 26' 25.44"E
L6	29.95'		S79° 19' 54.08"E
L7	6.62'		N12° 27' 45.46"E
L8	55.39'		S77° 59' 15.60"E
L9	52.28'		S12° 27' 35.98"W
L10	119.34'		N74° 54' 03.31"W



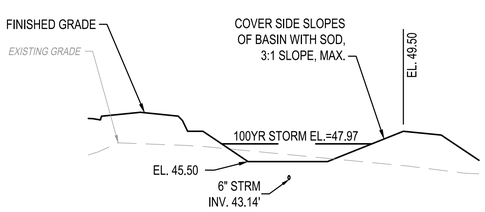
B1 BASIN #1S, SECTION B1

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



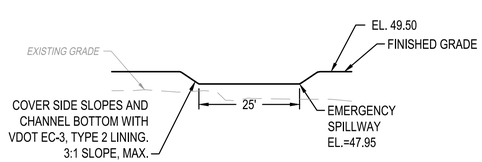
B3 BASIN #2S, SECTION B3

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



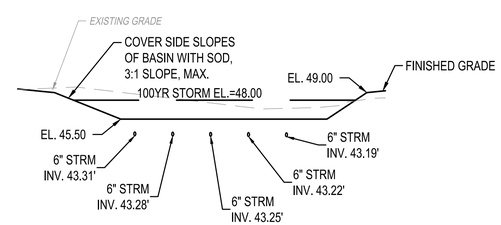
A1 BASIN #1S, SECTION A1

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



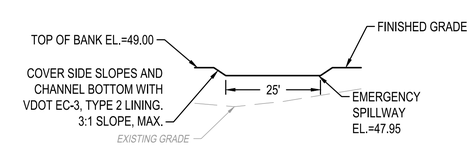
A2 BASIN #1S, SECTION A2

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A3 BASIN #2S, SECTION A3

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A5 BASIN #2S, SECTION A5

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

GENERAL SHEET NOTES

A. SEE DETAILS ON SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA.

GRAPHIC SCALE

VERTICAL SCALE 1"=10' 0' 10' 20'

HORIZONTAL SCALE 1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED James D. Gribble, P.E.

FOR COMMANDER NAVFAC 4/02/2026

ACTIVITY Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES DRG | DRW MTH | CHK DLB

PM/DM MME/WJW

BRANCH MANAGER DLB

CHIEF ENG/ARCH JWJ

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

STORMWATER MANAGEMENT FACILITY - SEGREGATION FACILITIES

SCALE: AS SHOWN

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

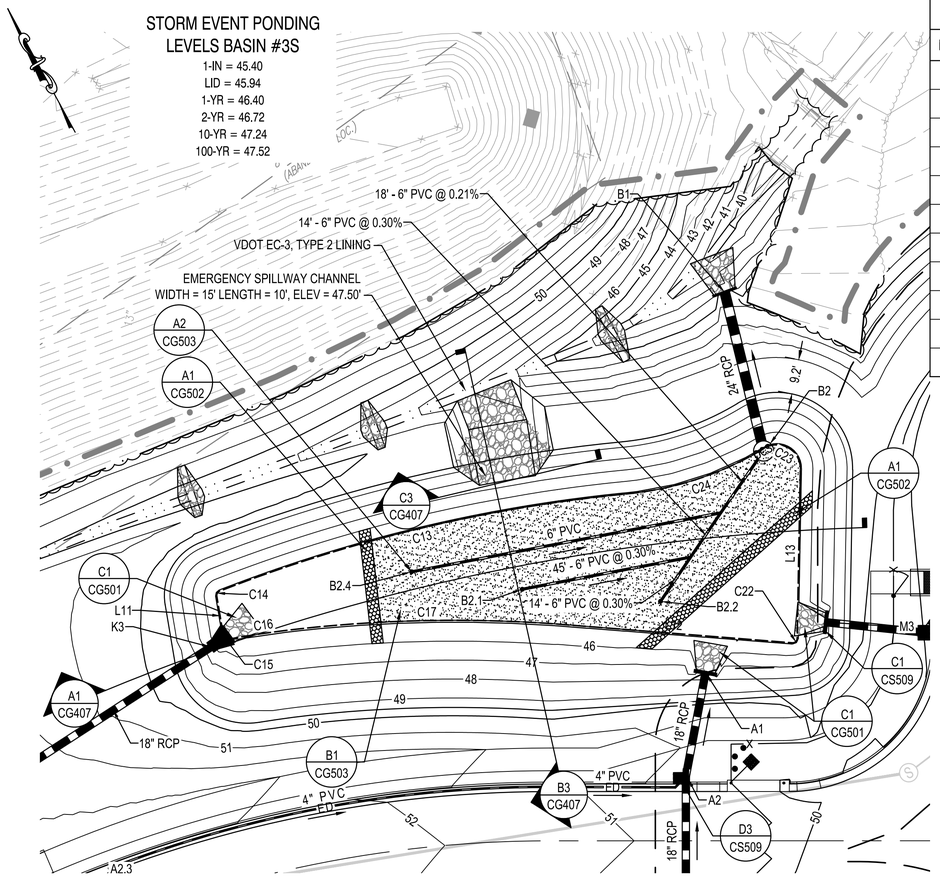
NAVFAC DRAWING NO. 12941878

SHEET 226 OF 499

CG406

DRAWFORM REVISION: 14 SEP 2023

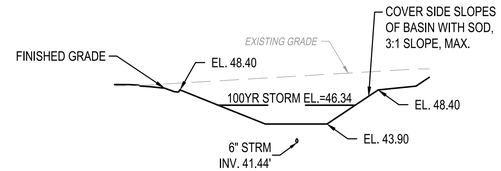
FILE NAME: K:\AYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS: MAGAZINE\Sheets\05_CIVIP171-1737010-BLDG-CG407.dwg LAYOUT NAME: CG406 PLOTTED: Wednesday, April 01, 2026 - 12:45pm USER: michael.t.hart5



B1 DRY DETENTION BASIN WITH SAND FILTER, BASIN #3S

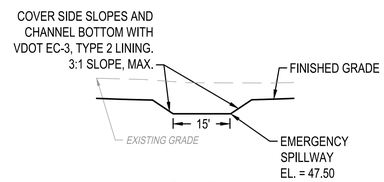
SCALE: 1" = 20'

BASIN #3			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C13	110.94'	402.99'	N74° 49' 27.42"W
C14	1.64'	1.20'	S58° 09' 07.69"W
C15	1.90'	1.20'	S26° 17' 11.65"E
C16	19.18'	278.86'	S69° 37' 03.70"E
C17	66.96'	373.69'	S62° 30' 49.17"E
C22	1.96'	1.20'	N76° 24' 57.29"E
C23	13.23'	6.20'	N31° 28' 43.35"W
C24	38.57'	86.05'	N79° 46' 36.72"W
L11	10.51'		S19° 00' 55.43"W
L12	63.12'		S56° 49' 37.36"E
L13	44.80'		N29° 39' 31.94"E



D3 BASIN #4S, SECTION D3

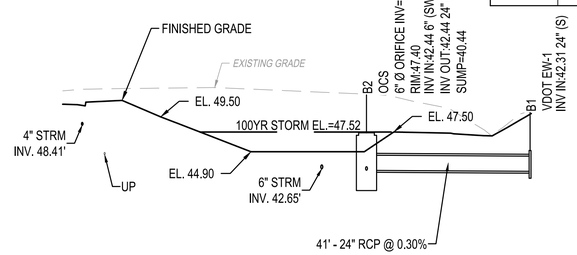
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



C3 BASIN #3S, SECTION C3

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

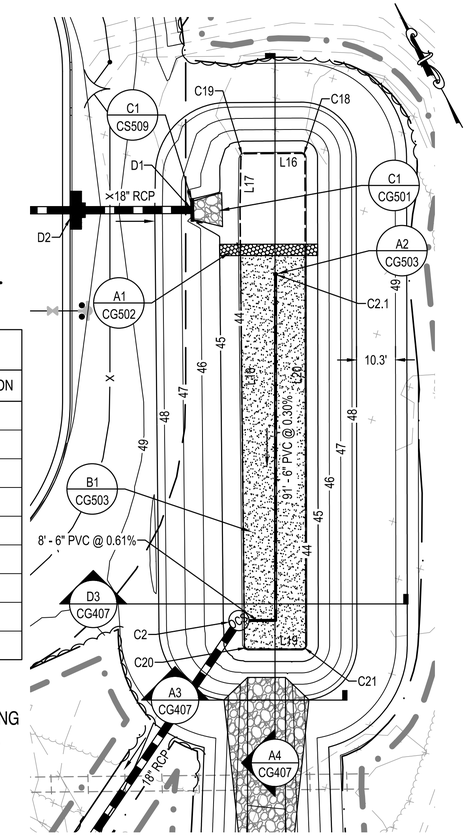
BASIN #4			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C18	1.57'	1.00'	N16° 44' 29.33"W
C19	1.55'	1.00'	S73° 52' 58.72"W
C20	1.56'	1.00'	S16° 41' 13.31"E
C21	1.57'	1.00'	N73° 33' 35.07"E
L16	14.92'		N61° 46' 50.43"W
L17	13.93'		S29° 32' 47.86"W
L18	114.84'		S28° 01' 36.85"W
L19	14.20'		S61° 24' 03.48"E
L20	128.84'		N28° 30' 47.46"E



B3 BASIN #3S, SECTION B3

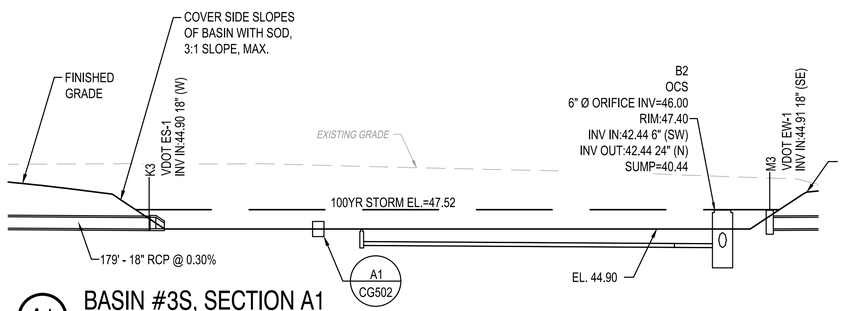
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

STORM EVENT PONDING
LEVELS BASIN #4S
1-IN = 44.51
LID = 45.01
1-YR = 45.31
2-YR = 45.53
10-YR = 46.13
100-YR = 46.34



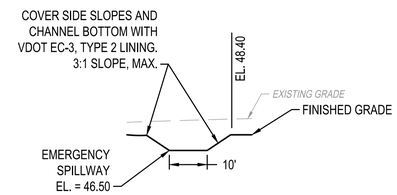
B5 DRY DETENTION BASIN WITH SAND FILTER, BASIN #4S

SCALE: 1" = 20'



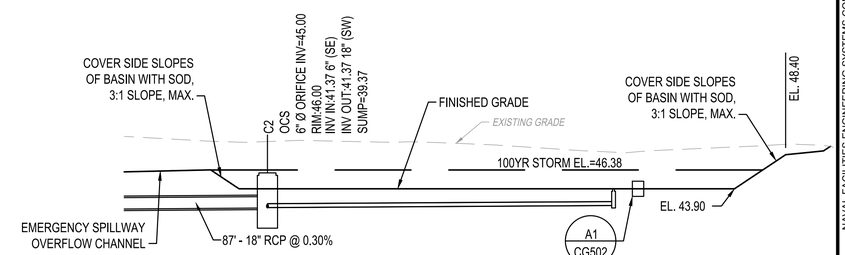
A1 BASIN #3S, SECTION A1

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A3 BASIN #4S, SECTION A3

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



A4 BASIN #4S, SECTION A4

SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

GENERAL SHEET NOTES

A. SEE DETAILS ON SHEET CG502 FOR OUTLET CONTROL STRUCTURE DESIGN DATA.

GRAPHIC SCALE

VERTICAL SCALE 1"=10' 0' 10' 20'

HORIZONTAL SCALE 1"=20' 0' 10' 20' 40'

MARK	DESCRIPTION	DATE

A/E INFO

APPROVED
James E. Delahaut, R.A.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

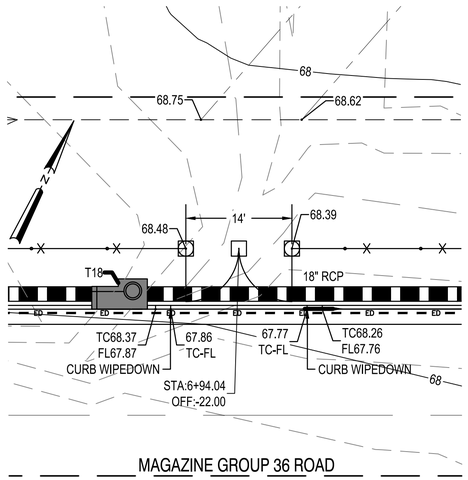
DES DRG | DRW MTH | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - SEGREGATION
FACILITIES

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941879
SHEET 227 OF 499
CG407

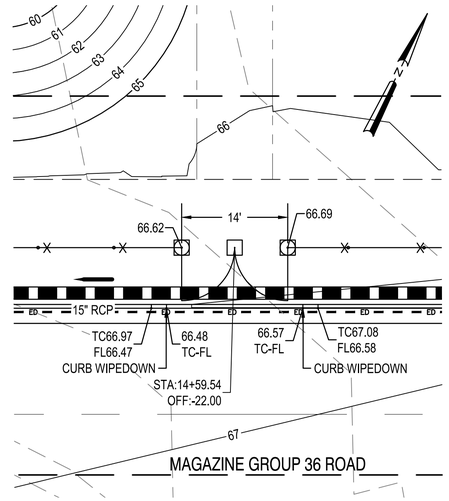
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV\P171-1737010-BLDG-CG407.dwg LAYOUT NAME: CG407 PLOTTED: Wednesday, April 01, 2026 - 12:46pm USER: michael.t.hurd5



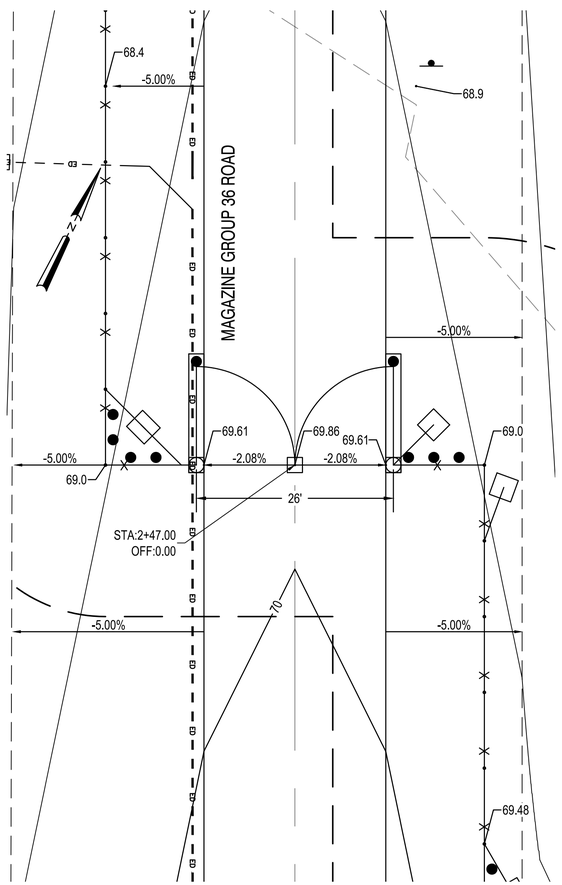
C1 ENLARGED GRADING AT MAINTENANCE GATE

SCALE: 1" = 10'



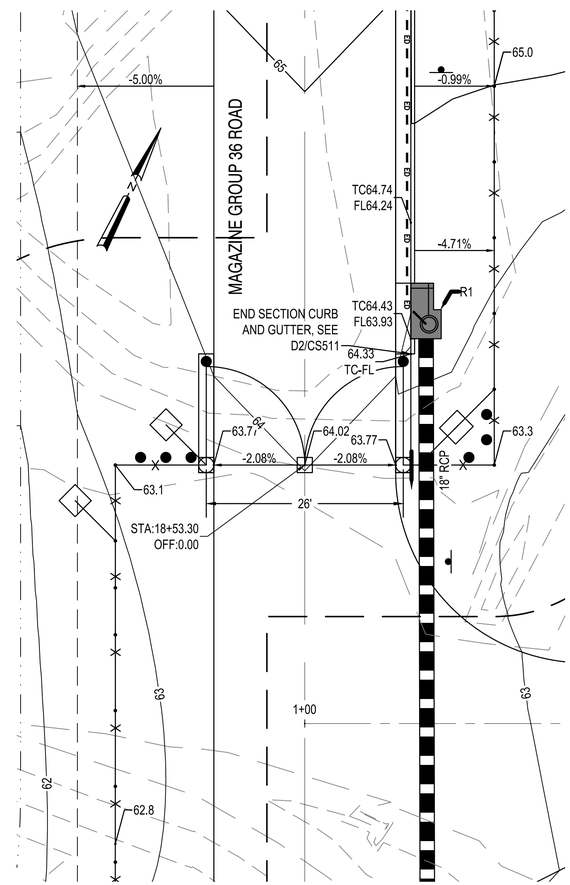
C2 ENLARGED GRADING AT MAINTENANCE GATE

SCALE: 1" = 10'



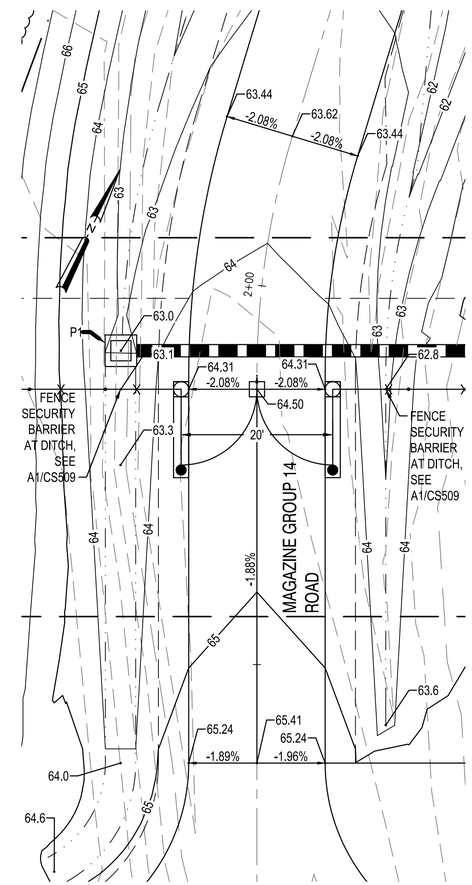
A1 ENLARGED GRADING AT WEST GATE

SCALE: 1" = 10'



A2 ENLARGED GRADING AT EAST GATE

SCALE: 1" = 10'



A4 ENLARGED GRADING AT NORTH GATE

SCALE: 1" = 10'

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
Jason S. Delahay, R.A.
FOR COMMANDER NAVFAC

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

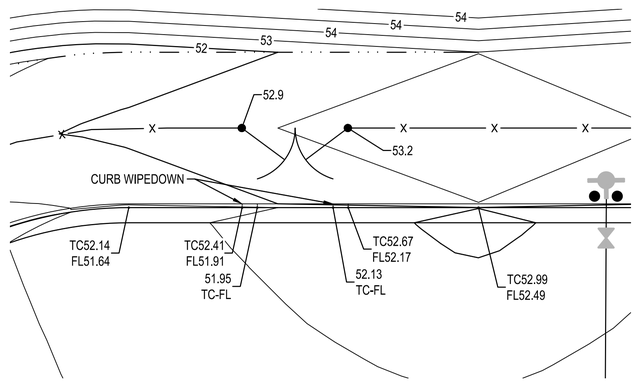
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
ENLARGED GRADING PLAN AT SECURITY GATES - MAGAZINE SITE

SCALE 1" = 10'
EPROJECT NO. 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941880
SHEET 228 OF 499
CG408
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CIV\P171-1737010-MAG2-CG408.dwg LAYOUT NAME: CG408 PLOTTED: Wednesday, April 01, 2026 – 12:47pm USER: michael.l.hart5

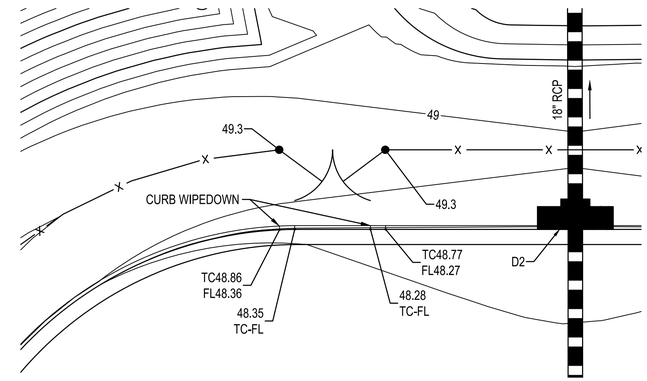
GENERAL SHEET NOTES

A. REFER TO SHEET C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.



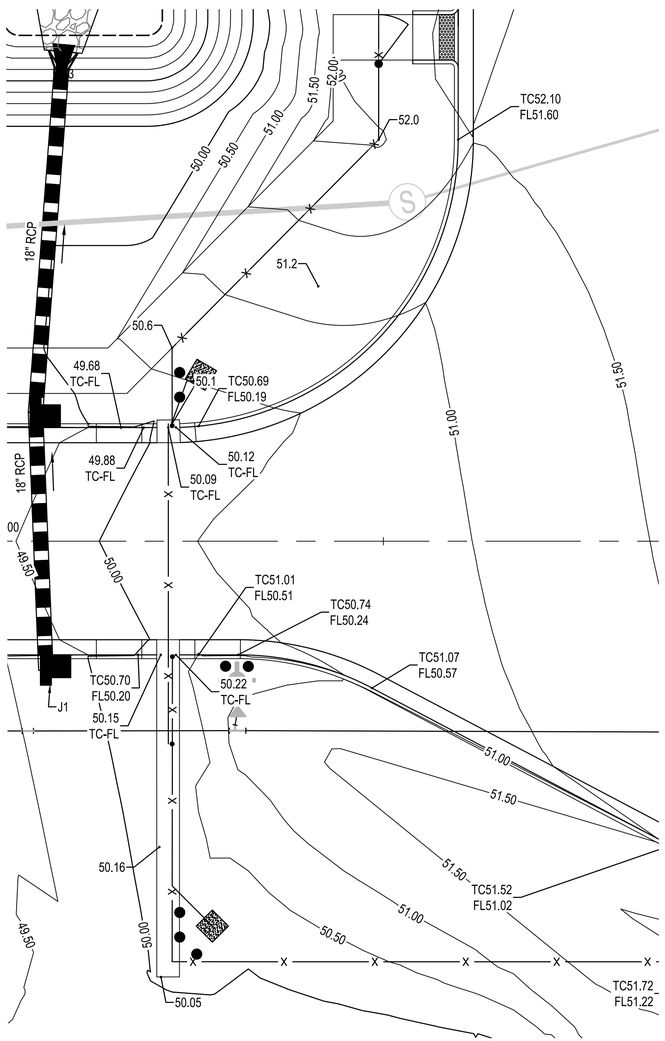
C2 ENLARGED GRADING AT BLDG #1 MAINTENANCE GATE

SCALE: 1" = 10'



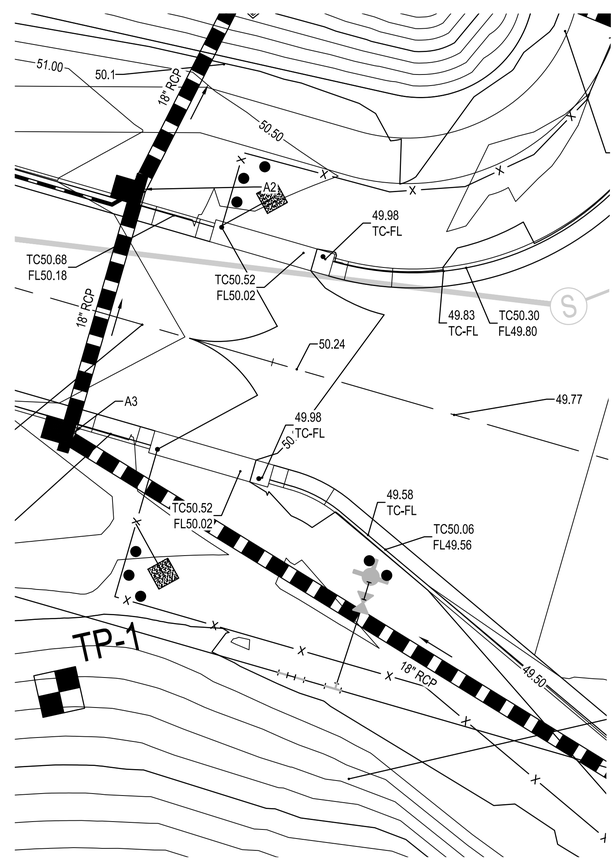
C4 ENLARGED GRADING AT BLDG #2 MAINTENANCE GATE

SCALE: 1" = 10'



A1 ENLARGED GRADING AT BLDG #1 GATE

SCALE: 1" = 10'



A3 ENLARGED GRADING AT BLDG #2 GATE

SCALE: 1" = 10'

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES DRG	DRW MTH	CHK DLB	
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT POC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

ENLARGED GRADING PLAN AT SECURITY GATES - SEGREGATION FACILITIES

SCALE: AS SHOWN

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

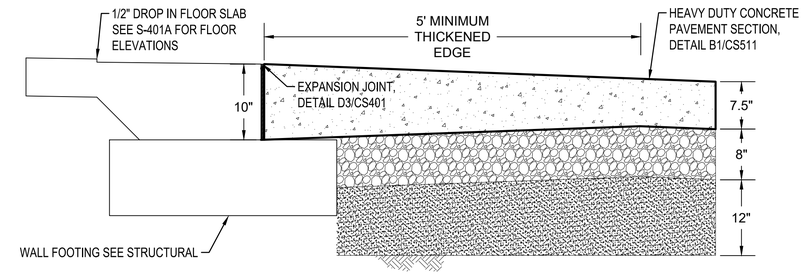
NAVFAC DRAWING NO. 12941881

SHEET 229 OF 499

CG409

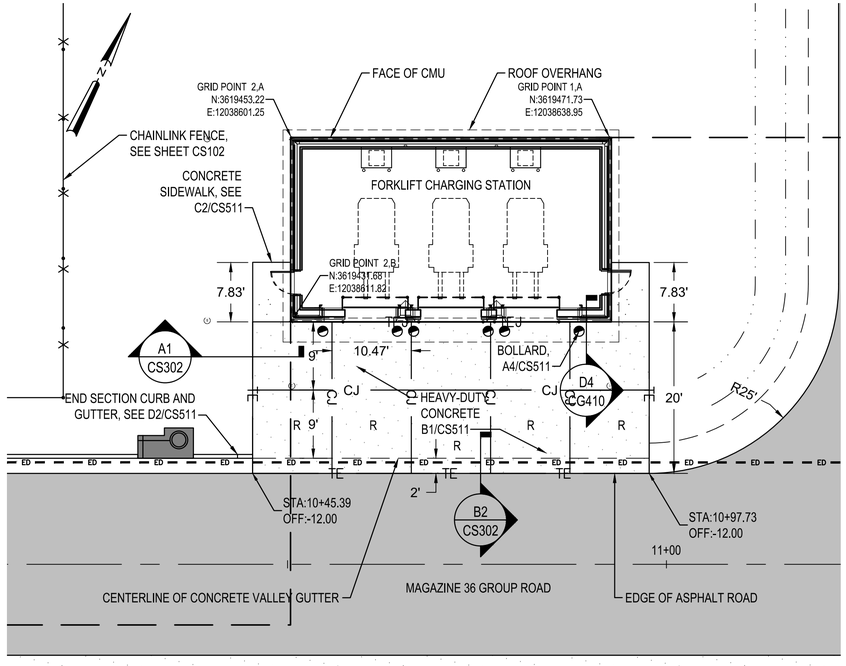
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NAVordnwt\MLCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV\P171-1737010-BLDG-CG409.dwg LAYOUT NAME: CG409 PLOTTED: Wednesday, April 01, 2026 - 12:48pm USER: michael.t.hart5



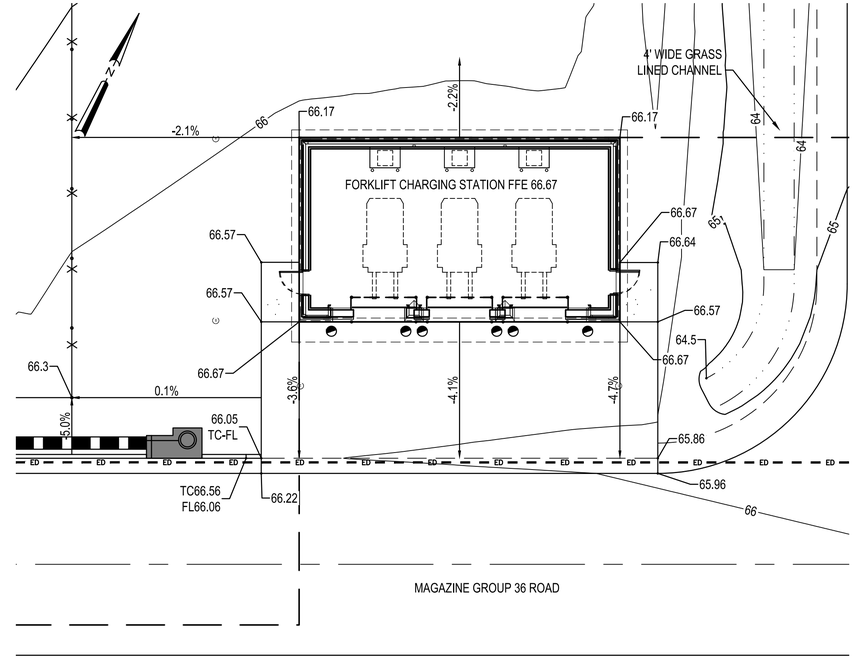
D4 TYPICAL SECTION AT APRON/FORKLIFT CHARGING STATION INTERFACE

NTS



A1 ENLARGED FORKLIFT CHARGING STATION SITE PLAN

SCALE: 1" = 10'



A3 ENLARGED FORKLIFT CHARGING STATION GRADING PLAN

SCALE: 1" = 10'

GENERAL SHEET NOTES

A. MAKE ADJUSTMENTS TO UNDERGROUND UTILITIES TO ACCOMMODATE BUILDING AND RAMP.

B. SEE ARCHITECTURAL PLANS FOR FORKLIFT CHARGING STATION DIMENSIONS AND DETAILS. NORTHING AND EASTING COORDINATES ARE TO THE STRUCTURAL GRIDLINES.

C. SEE CS401 FOR JOINTING DETAILS.

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 4/22/2026

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES WJW DRW SMT CHK DLB

PM/DM MME/WJW

BRANCH MANAGER DLB

CHIEF ENG/ARCH JWJ

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

ENLARGED PLAN AT FORKLIFT CHARGING STATION

SCALE: AS SHOWN

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

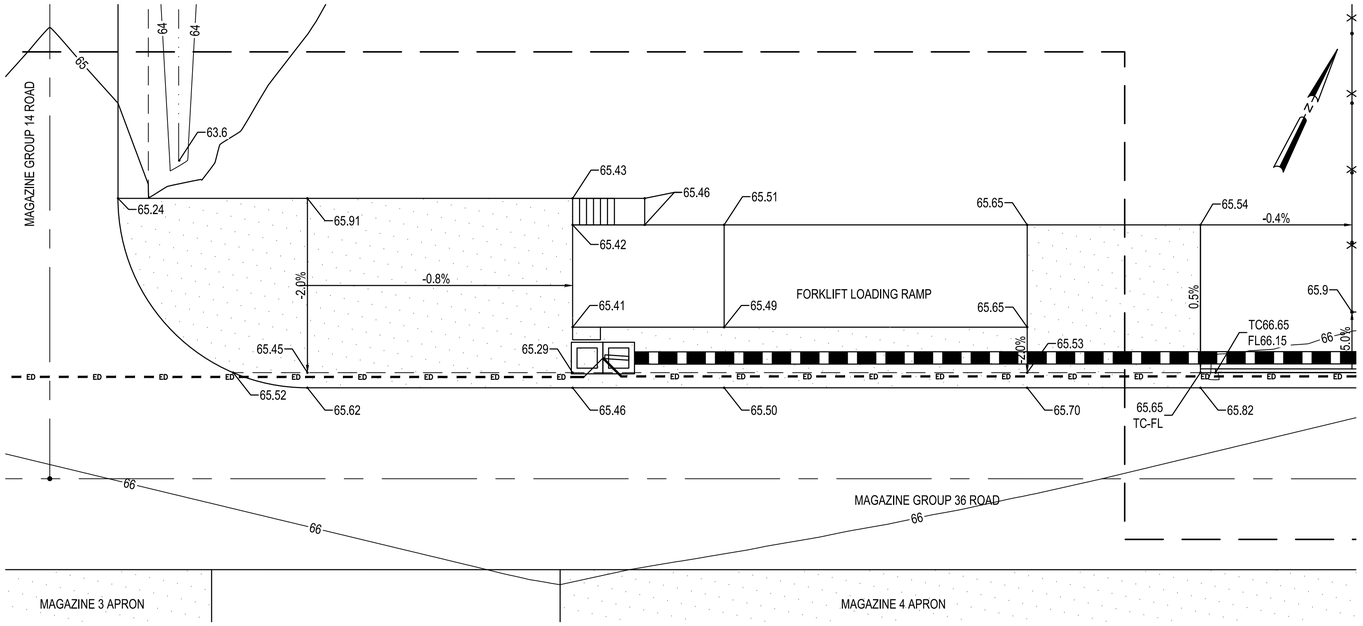
NAVFAC DRAWING NO. 12941882

SHEET 230 OF 499

CG410

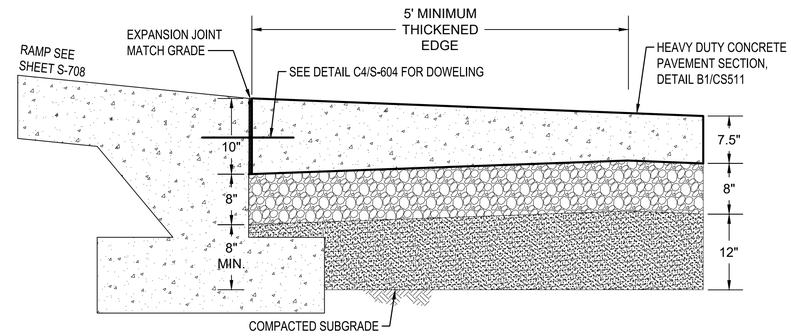
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\WX\Yorktown\MLCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CH\P171-1737010MAGZ-CG410.dwg PLOTTED: Wednesday, April 1, 2026 12:48:38 PM USER: sarah.m.turner



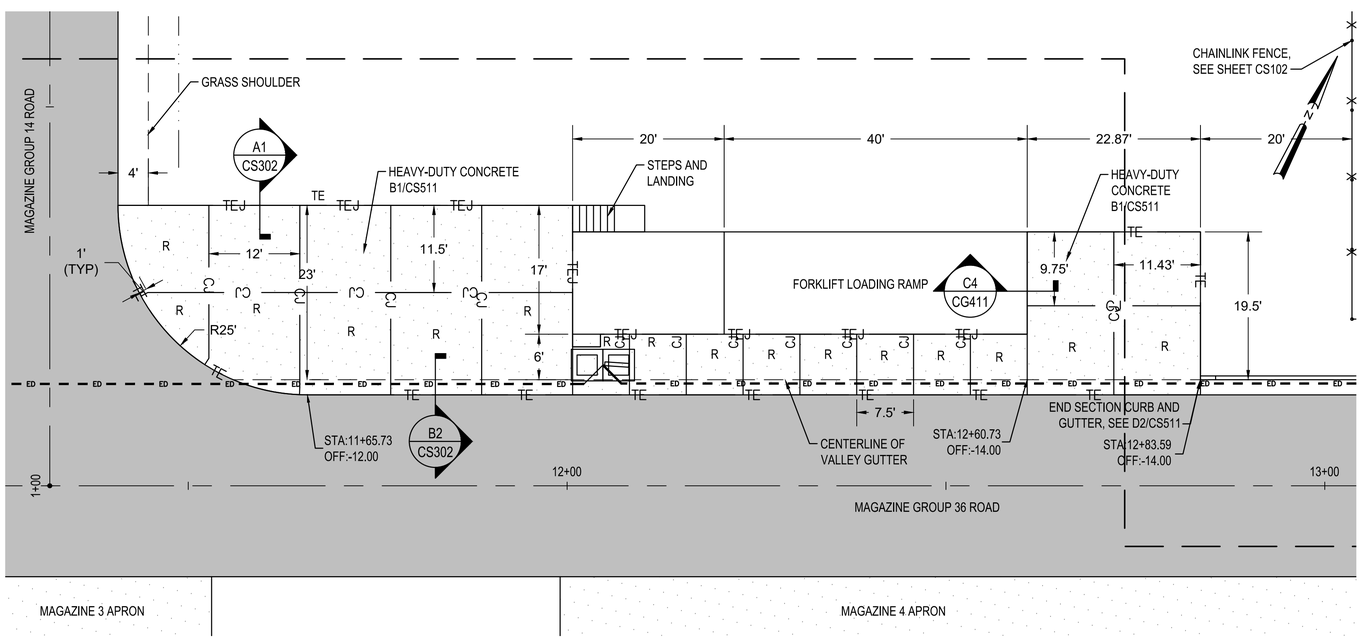
C1 ENLARGED FORKLIFT LOADING RAMP GRADING PLAN

SCALE: 1" = 10'



C4 TYPICAL SECTION AT APRON/RAMP INTERFACE

NTS



A1 ENLARGED FORKLIFT LOADING RAMP SITE PLAN

SCALE: 1" = 10'

GENERAL SHEET NOTES

A. MAKE ADJUSTMENTS TO UNDERGROUND UTILITIES TO ACCOMMODATE BUILDING AND RAMP.

B. SEE SHEET S-708 FOR FORKLIFT RAMP DETAILS AND NOTES.

C. SEE CS401 FOR JOINTING DETAILS.

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE

NAVFAC

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 4/01/2026

ACTIVITY: Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES	DRW	CHK
WJW	SMT	DLB

PM/DM	MME/WJW
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

ENLARGED PLAN AT FORKLIFT LOADING RAMP

SCALE: AS SHOWN

EPROJECT NO.: 1737010

CONSTR. CONTR. NO. ##

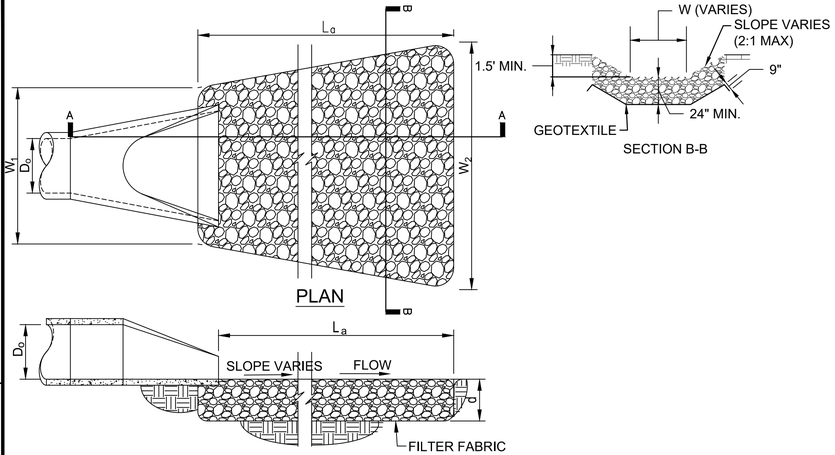
NAVFAC DRAWING NO. 12941883

SHEET 231 OF 499

CG411

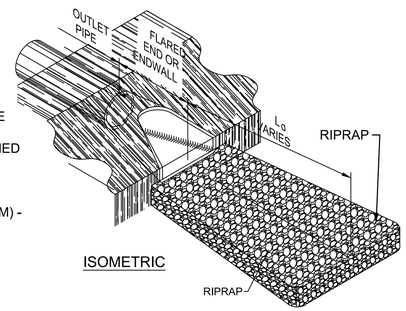
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\AYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CV\P171-1737010-MAGZ-CG411.dwg PLOTTED: Wednesday, April 1, 2026 12:49:07 PM USER: sarah.m.turner



NOTES:

1. SEE APPROPRIATE SCHEDULE FOR DIMENSIONS
2. L_a IS THE LENGTH OF THE RIPRAP APRON.
3. INSTALL NON-WOVEN GEOTEXTILE BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. RIP RAP SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER THREE OF VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
5. MAXIMUM OUTLET VELOCITY (FOR DESIGN STORM) - 14 FPS.



C1 OUTLET PROTECTION DETAIL

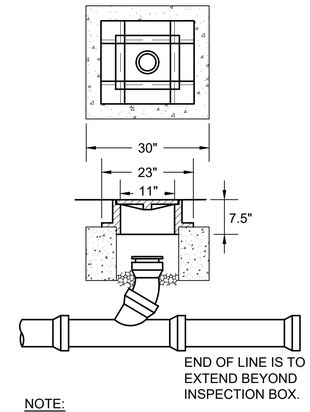
NTS

RIPRAP OUTLET PROTECTION SIZING MAGAZINE SITE

STR ID	Do (IN.)	LA (FT.)	W_1 (FT.)	W_2	RIPRAP
T6	24	12	8	15	CLASS 1
T12	36	SEE PLAN			CLASS 1
P3	15	7.50	5	9	CLASS 1
P7	18	10.00	6	12	CLASS 1
P10	24	15	9	18	CLASS 2
R4	18	10.00	6	12	CLASS 1
R7	30	17.50	11	21	CLASS 2
Q5	36	20	12	24	CLASS 2

RIPRAP OUTLET PROTECTION SIZING SEGREGATION FACILITIES

STR ID	Do (IN.)	LA (FT.)	W_1 (FT.)	W_2	CLASS
A1	18	7.5	5	9	CLASS 1
B1	24	10.0	6	12	CLASS 1
C1	18	10.0	6	12	CLASS 1
D1	18	7.5	5	9	CLASS 1
E3	24	10.0	6	12	CLASS 1
F3	18	15.0	10	18	CLASS 2
G5	18	7.5	5	9	CLASS 1
H2	18	7.5	5	9	CLASS 1
I2	DOUBLE 24	20.0	12	24	CLASS 2
J3	18	7.5	5	9	CLASS 1
K3	18	7.5	5	9	CLASS 1
L3	18	7.5	5	9	CLASS 1
M2	18	7.5	5	9	CLASS 1

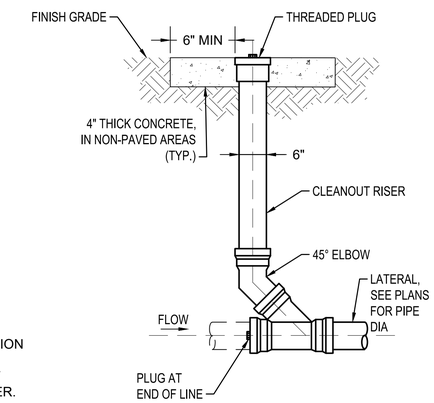


NOTE:

1. CLEANOUT PIPE MUST BE FREE OF ANY WEIGHT TRANSMITTED BY THE INSPECTION BOX.
2. INSPECTION BOXES IN PAVEMENT MUST HAVE TRAFFIC RATED FRAME AND COVER.

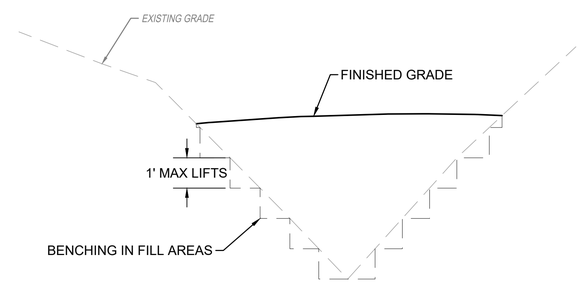
C4 STORM CLEANOUT WITH INSPECTION BOX DETAIL

NTS



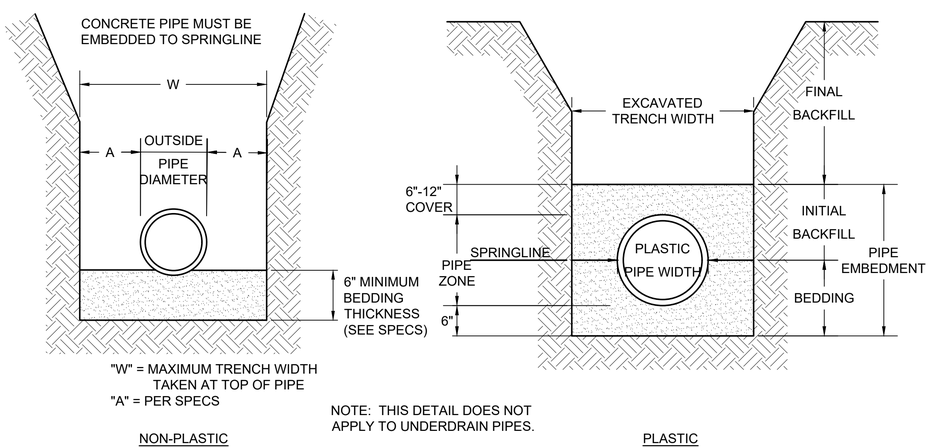
C5 STORM CLEANOUT

NTS



B4 FILL AREA BENCHING DETAIL

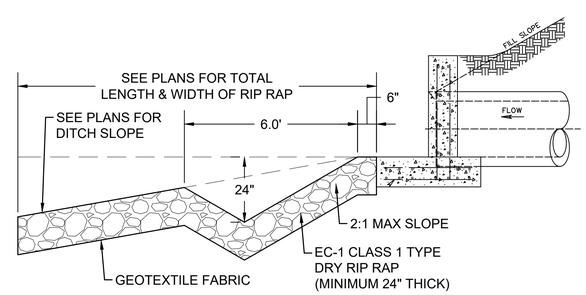
SCALE: NTS



NOTE: THIS DETAIL DOES NOT APPLY TO UNDERDRAIN PIPES.

A1 PIPE TRENCH CROSS SECTION DETAIL

NTS

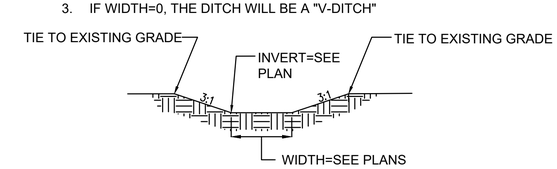


A3 PLUNGE POOL

NTS

NOTES

1. TOPSOIL & SEED IN ACCORDANCE WITH LANDSCAPE DRAWINGS AND SPECIFICATIONS
2. PROVIDE VDOT EC-2 LINING ON THE SIDE SLOPES AND BOTTOM UNLESS INDICATED OTHERWISE
3. IF WIDTH=0, THE DITCH WILL BE A "V-DITCH"



A4 DRAINAGE CHANNEL/DITCH DETAIL

NTS

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Grubbs, P.E.
FOR COMMANDER NAVFAC 4/28/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

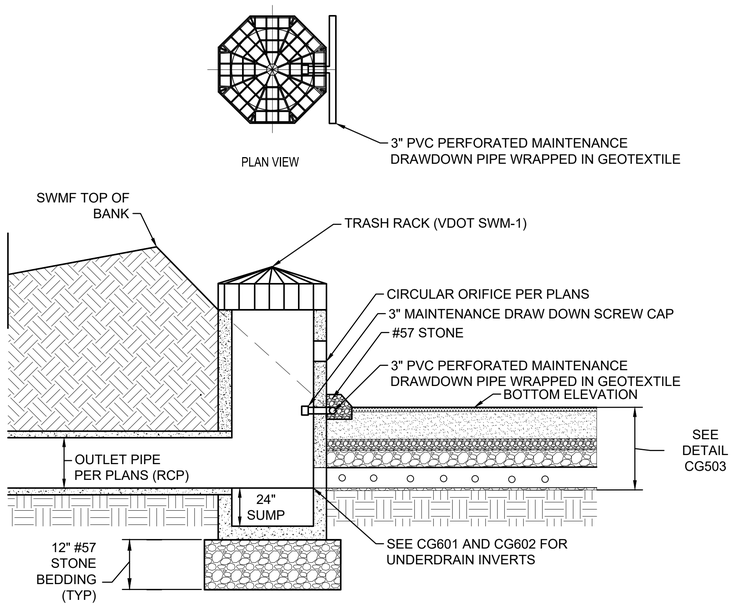
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
DRAINAGE DETAILS

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941884
SHEET 232 OF 499

CG501

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CG\P171-1737010-MAGZ-CG501.dwg LAYOUT NAME: CG501 PLOTTED: Wednesday, April 01, 2026 - 12:49pm USER: michael.l.hart5

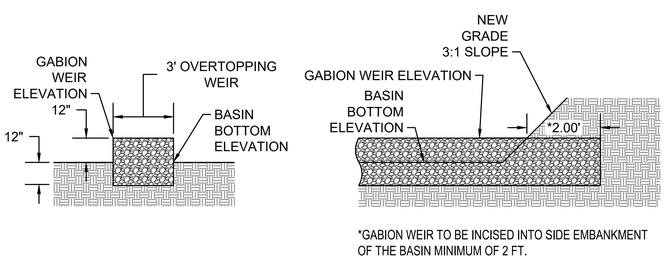


NOTES:

1. ALL STORM AND UTILITY STRUCTURES MUST HAVE A MINIMUM BEDDING THICKNESS OF 12 INCHES AND THE BEDDING MUST EXTEND A MINIMUM OF 6 INCHES BEYOND THE PLAN LIMITS OF THE STRUCTURE BASE SLAB.
2. PROVIDE LADDERS IN ACCORDANCE WITH SPEC 33 40 00 SECTION 3.5.1 FOR STRUCTURES DEEPER THAN 4'-0".
3. REFER TO THIS SHEET FOR OUTLET CONTROL STRUCTURE DETAILS.
4. STRUCTURE MAY BE PRECAST OR CAST IN PLACE.
5. WEEP HOLES SHALL NOT BE PROVIDED. ANY LIFT HOLES SHALL BE PLUGGED.
6. THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.
7. 3" PVC DRAWDOWN PIPE TO BE USED ONLY WHEN PRIMARY OUTLET IS OBSTRUCTED OR BASIN REMAINS PONDED. PROVIDE WATERTIGHT SEAL BETWEEN PIPE AND STRUCTURE WALL AT PENETRATION.

C1 TYPICAL DRAINAGE STRUCTURE FOR SAND FILTER BASIN

SCALE: NTS



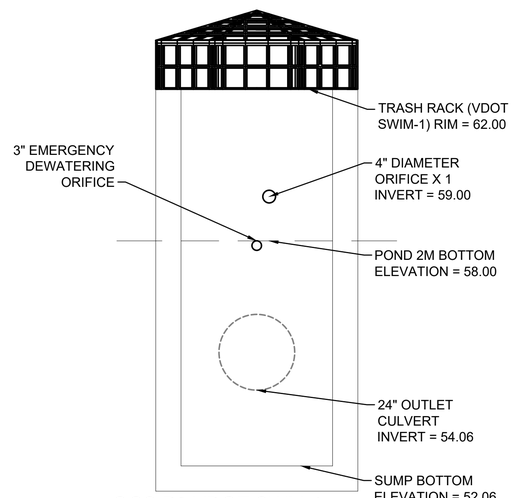
*GABION WEIR TO BE INCISED INTO SIDE EMBANKMENT OF THE BASIN MINIMUM OF 2 FT.

CONSTRUCTION NOTES:

GABION WEIR TO BE CONSTRUCTED WITH HEXAGONAL TRIPLE TWIST MESH WITH PVC COATED GALVANIZED STEEL WIRE. THE MAXIMUM LINEAR DIMENSION OF THE MESH OPENING SHALL NOT EXCEED 4.5 INCHES. THE AREA OF THE MESH OPENING MUST NOT EXCEED 10 SQUARE INCHES. STONE FOR GABIONS MUST BE VDOT #3 COARSE AGGREGATE

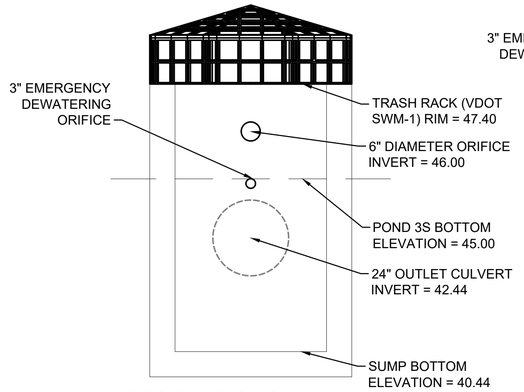
A1 GABION GRAVEL DIAPHRAM

SCALE: NTS



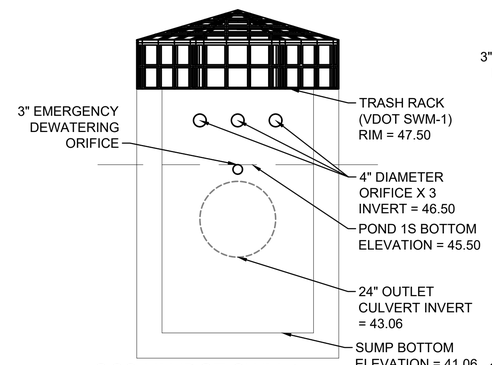
B3 OCS P9 VDOT SWM-1 (POND 2M)

SCALE: NTS



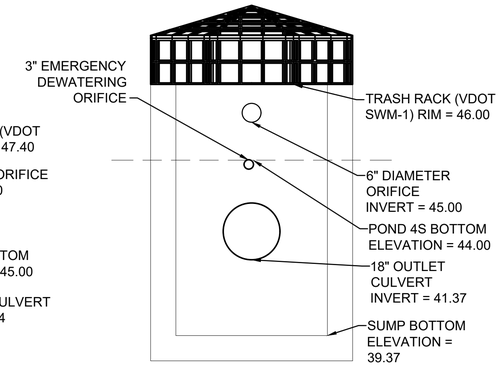
C4 OCS B2 VDOT SWM-1 (POND 3S)

SCALE: NTS



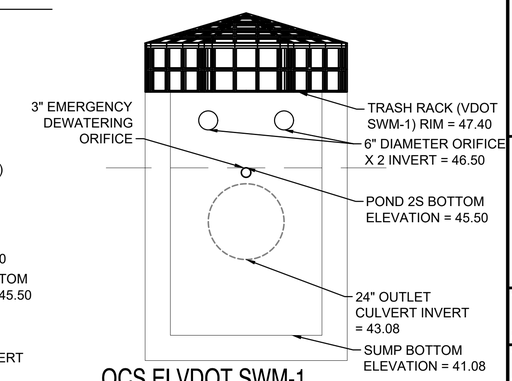
B4 OCS HI VDOT SWM-1 (POND 1S)

SCALE: NTS



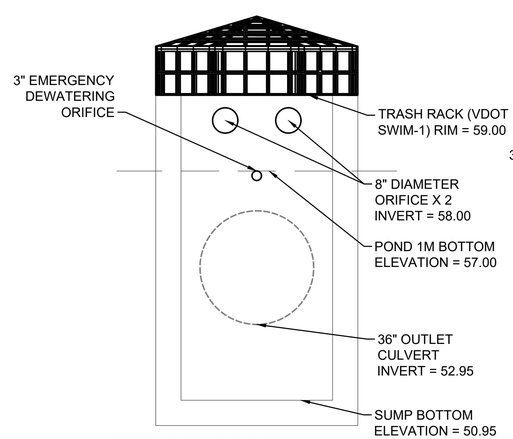
C5 OCS C2 VDOT SWM-1 (POND 4S)

SCALE: NTS



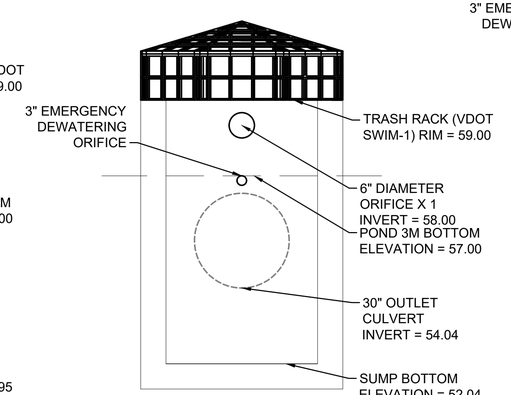
B5 OCS EI VDOT SWM-1 (POND 2S)

SCALE: NTS



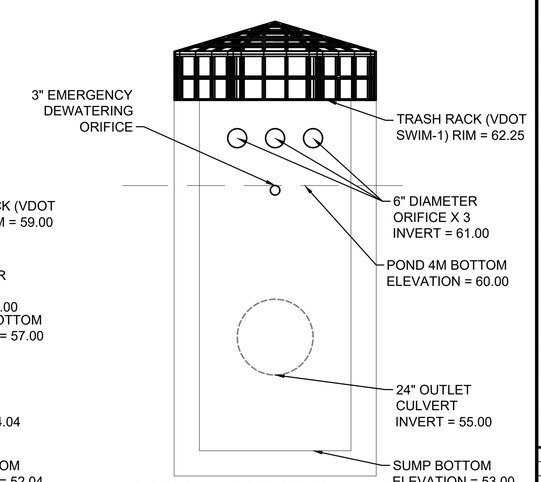
A3 OCS T10 VDOT SWM-1 (POND 1M)

SCALE: NTS



A4 OCS R5 VDOT SWM-1 (POND 3M)

SCALE: NTS



A5 OCS Q1 VDOT SWM-1 (POND 4M)

SCALE: NTS

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
James E. Greene, P.A.
FOR COMMANDER NAVFAC 4/21/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES	WJW	DRW SMT	CHK DLB
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

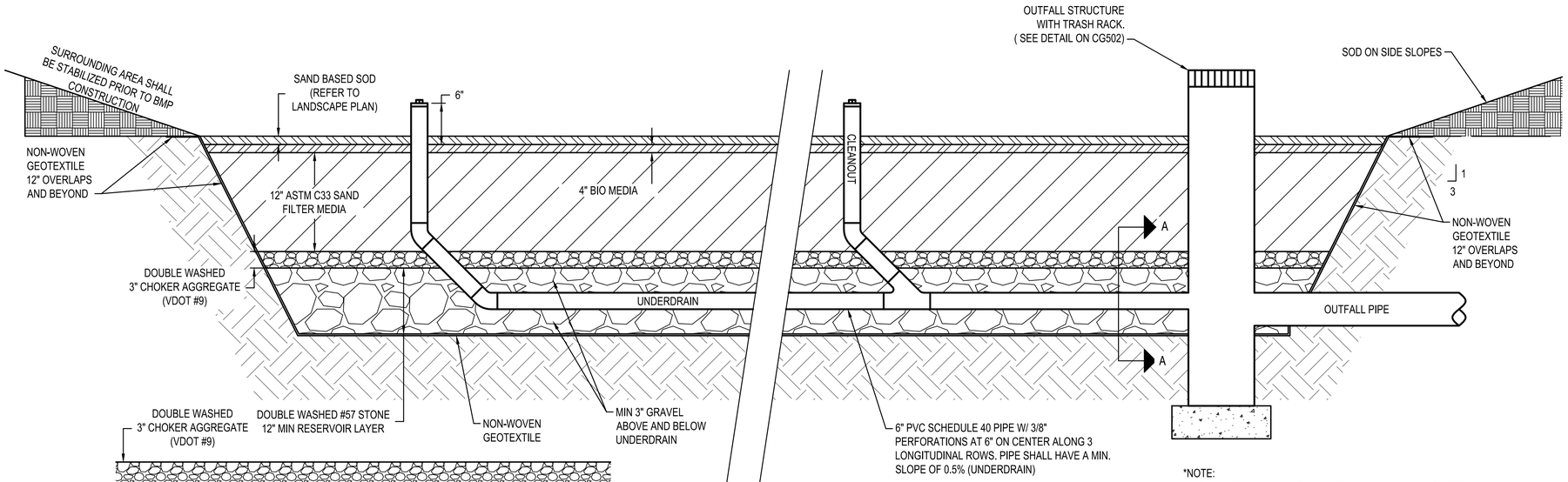
DRAINAGE DETAILS

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO.: ##
NAVFAC DRAWING NO.: 12941885
SHEET 233 OF 499

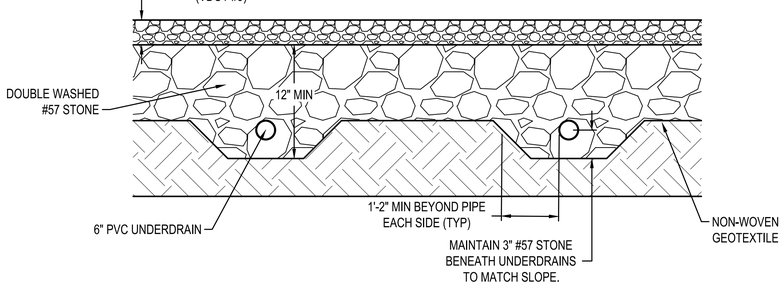
CG502

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MLCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS – MAGAZINE\Sheet\05_CG\P171-1737010-MAG2-CG501.dwg LAYOUT NAME: CG502 PLOTTED: Wednesday, April 01, 2026 – 12:49pm USER: michael.l.hart5



*NOTE:
FOR ALL PERMANENT STORMWATER MANAGEMENT FACILITIES, A COMPLETED CONSTRUCTION AND AS-BUILT CHECKLIST(S) SEALED AND SIGNED BY A CERTIFIED PROFESSIONAL, MUST BE SUBMITTED TO THE COR UPON COMPLETION OF THE CONSTRUCTION OF THE BMP(S). CHECKLIST(S) ARE AVAILABLE IN APPENDIX 3E OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK



SECTION A-A

B1 SAND FILTER

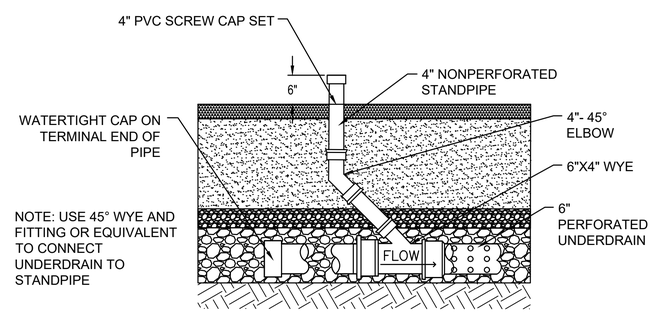
SCALE: NTS

SEQUENCE OF CONTRUSTION

1. IF THE FILTERING AREA IS USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUTION, ENSURE THE BOTTOM ELEVATION OF THE FUTURE FILTER IS LOWER THAN THE BASIN. PLAN FOR FINAL CLEANOUT AND CONVERSION TO PERMANENT USE.
2. DO NOT CONSTRUCT OR OPEN THE FILTER TO RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED. IF PREVIOUSLY USED AS A SEDIMENT TRAP, DEWATER, DREDGE, AND REGRADE TO FINAL DESIGN DIMENSIONS.
3. DIVERT RUNOFF AROUND THE FILTERING PRACTICE DURING CONSTRUCTION. INSTALL SILT FENCE OR OTHER SEDIMENT CONTROLS AROUND THE PERIMETER. STABILIZE EXPOSED SLOPES GREATER THAN 4:1 WITH EROSION CONTROL FABRIC.
4. DELIVER AND STAGE ALL CONSTRUCTION MATERIALS ON SITE. CONFIRM MATERIALS MEET DESIGN SPECIFICATIONS.
5. EXCAVATE AND GRADE TO THE DESIGN ELEVATIONS FOR THE FILTER BOTTOM AND SIDE SLOPES.
6. INSTALL THE FILTER STRUCTURE AND VERIFY ALL CRITICAL DESIGN ELEVATIONS, INCLUDING INVERTS, WEIRS, AND CUTOUTS.
7. PLUG INLETS AND OUTLETS, FILL THE STRUCTURE WITH WATER, AND CONFIRM LEAKAGE DOES NOT EXCEED 5% IN 24 HOURS. REPAIR IF NEEDED BEFORE MEDIA INSTALLATION.
8. INSTALL THE UNDERDRAIN SYSTEM ALONG WITH GRAVEL AND CHOKER STONE LAYERS PER DESIGN.
9. SPREAD FILTER MEDIA IN 1-FOOT LIFTS UP TO FINAL ELEVATION. PLACE USING EQUIPMENT OUTSIDE THE STRUCTURE AND MANUALLY RAKE INTO PLACE.
10. FILL THE STRUCTURE WITH CLEAN WATER AND ALLOW TO DRAIN TO HYDRAULICALLY COMPACT THE MEDIA. VERIFY MINIMUM DESIGN DEPTH IS MET.
11. INSTALL PERMEABLE FILTER FABRIC. FOR SURFACE FILTERS, PLACE 3 INCHES OF TOPSOIL OVER FABRIC, ADD PEA GRAVEL INLETS, AND SEED IMMEDIATELY. DELAY FLOW UNTIL GRASS COVER IS ESTABLISHED.
12. STABILIZE EXPOSED SOILS AROUND THE FILTER WITH TEMPORARY SEED. PERMANENTLY STABILIZE AREAS ABOVE THE PONDING ZONE (REFER TO LANDSCAPE PLANS).
13. CONDUCT FINAL INSPECTION. REMOVE EXCESS STRAW, DEBRIS, AND ANY UNWANTED VEGETATION BEFORE PLACING THE FILTER IN SERVICE.

A1 SEQUENCE OF CONSTRUCTION NOTES FOR SAND FILTER AREAS

SCALE: NTS



A2 UNDERDRAIN CLEANOUT DETAIL

SCALE: NTS

NOTES:

1. CONSTRUCTION OF BMP SHALL COMPLY WITH VA DEQ STORMWATER MANAGEMENT HANDBOOK SPECIFICATION P-FIL-06 FILTERING PRACTICE.
2. INSTALL UNDERDRAINS AT 10 FEET ON CENTER WITH A MINIMUM SLOPE OF 0.50%, CONNECT TO DRAINS PER PLAN.
3. PROVIDE A CLEANOUT/MONITORING WELL AT EVERY 50' ALONG UNDERDRAINS. SEE DETAIL A2 THIS SHEET.
4. PIPE JOINTS AND STORM DRAIN STRUCTURE CONNECTIONS MUST BE ADEQUATELY SEALED TO AVOID PIPING CONDITIONS (WATER SEEPING THROUGH PIPE OR STRUCTURE JOINTS). PIPE SECTIONS MUST BE COUPLED USING SUITABLE CONNECTION RINGS AND FLANGES. FIELD CONNECTIONS TO STORM DRAIN STRUCTURES AND PIPES MUST BE SEALED WITH POLYMER GROUT MATERIAL THAT IS CAPABLE OF ADHERING TO SURFACES. THE UNDERDRAIN PIPE MUST BE CAPPED (AT STRUCTURE) UNTIL THE SITE IS COMPLETE.
5. SAND FILTER INSPECTION AND MAINTENANCE REPORT. SEE SHEET CG504.

SAND FILTER OPERATIONS AND MAINTENANCE REQUIREMENTS

(REFERENCE: VIRGINIA DEQ BMP SPEC P-FIL-06, FILTERING PRACTICES)

1. INSPECTION FREQUENCY
   - 1.1. ROUTINE INSPECTION SHALL BE PERFORMED QUARTERLY (MINIMUM FOUR TIMES A YEAR).
   - 1.2. POST-STORM INSPECTIONS SHALL BE CONDUCTED AFTER STORM EVENTS EXCEEDING THE DESIGN STORM OR WHEN BYPASS STRUCTURES ARE ACTIVATED.
   - 1.3. AN ANNUAL COMPREHENSIVE INSPECTION SHALL EVALUATE THE FILTER MEDIA, UNDERDRAINS, AND ALL STRUCTURAL COMPONENTS.
2. MAINTENANCE REQUIREMENTS
   - 2.1. REMOVE TRASH, DEBRIS, AND ACCUMULATED SEDIMENT FROM FOREBAYS, INLETS, AND FILTER SURFACES.
   - 2.2. REMOVE SEDIMENT FROM PRETREATMENT AREAS WHEN ACCUMULATION EXCEEDS SIX (6) INCHES.
   - 2.3. REPAIR ERODED AREAS ON BERMS, SIDE SLOPES, OR OVERFLOW WEIRS.
   - 2.4. RESTORE VEGETATION OR GRAVEL COVER WHERE BARE AREAS ARE OBSERVED.
   - 2.5. FLUSH UNDERDRAINS AS REQUIRED THROUGH PROVIDED CLEANOUTS.
   - 2.6. SKIM OR REPLACE THE TOP TWO OR THREE (2-3) INCHES OF SAND MEDIA IF CLOGGING IS EVIDENT.
   - 2.7. REPLACE THE FULL MEDIA BED WHEN THE FILTER FAILS TO DRAIN WITHIN FORTY (40) HOURS AFTER A STORM EVENT.
3. PERFORMANCE CRITERIA
   - 3.1. MAXIMUM ALLOWABLE DRAWDOWN TIME IS FORTY (40) HOURS PER DEQ SPECIFICATION.
   - 3.2. STANDING WATER BEYOND FORTY-EIGHT (48) HOURS INDICATES CORRECTIVE MAINTENANCE IS REQUIRED.
   - 3.3. OUTLET AND BYPASS STRUCTURES SHALL REMAIN FREE-FLOWING AND STRUCTURALLY INTACT AT ALL TIMES.
4. RECORDKEEPING
   - 4.1. ALL INSPECTION AND MAINTENANCE ACTIVITIES SHALL BE DOCUMENTED ON APPROVED INSPECTION FORMS.
   - 4.2. DOCUMENTATION SHALL INCLUDE INSPECTION DATE, INSPECTOR NAME, OBSERVED DEFICIENCIES, CORRECTIVE ACTIONS TAKEN, AND PHOTOGRAPHS AS APPROPRIATE.
   - 4.3. RECORDS SHALL BE RETAINED FOR A MINIMUM OF FIVE (5) YEARS AND MADE AVAILABLE TO DEQ OR NAVFAC UPON REQUEST.

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
(signature of Project Manager, P.E.)
FOR COMMANDER NAVFAC 4/21/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW	DRW SMT	CHK DLB	
PM/DM	MME/WJW		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	JWJ		
FIRE PROTECTION	HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT DETAILS

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941886
SHEET 234 OF 499

CG503

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\YKTOWN\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheets\05_CIV\P171-1737010-MAGZ-CG503.dwg PLOTTED: Wednesday, April 1, 2026 12:49:48 PM USER: daniel.gornik

SAND FILTER INSPECTION AND MAINTENANCE REPORT

REFERENCE: VIRGINIA DEQ BMP SPEC P-FIL-06, FILTERING PRACTICES

PROJECT INFORMATION	DETAILS
PROJECT NAME	
LOCATION / BMP ID	
INSPECTION DATE	
INSPECTOR (NAME / ORG.)	
WEATHER CONDITIONS	

INSPECTION CHECKLIST

COMPONENT	SAT	UNSAT	COMMENTS / ACTION REQUIRED
ACCESS / SAFETY (CLEAR, UNOBSTRUCTED)			
TRASH / DEBRIS REMOVAL			
SEDIMENT IN FOREBAY (MEASURE DEPTH)			
INLETS / PRETREATMENT CHAMBER			
FILTER SURFACE CONDITION (CLOGGING, CRUSTING)			
STANDING WATER (>40 HRS)			
FILTER MEDIA (SAND LAYER CONDITION)			
VEGETATION / GRAVEL COVER			
UNDERDRAIN / CLEANOUTS (ACCESSIBLE, FLUSHED)			
OUTLET / OVERFLOW STRUCTURES			
STRUCTURAL INTEGRITY (BERMS, LINER, WEIRS)			
EROSION / SCOUR (INLET/OUTLET AREAS)			
DRAWDOWN TEST (HRS TO DRAIN)			

CORRECTIVE ACTIONS

DEFICIENCY	ACTION TAKEN / PLANNED	DATE COMPLETED	VERIFIED BY

CERTIFICATION

I CERTIFY THIS INSPECTION WAS PERFORMED IN ACCORDANCE WITH VIRGINIA DEQ SPECIFICATION P-FIL-06 AND NAVFAC MAINTENANCE REQUIREMENTS

INSPECTOR SIGNATURE:	
DATE:	

MARK	DESCRIPTION	DATE

SEAL

A/E INFO

APPROVED
James E. Delahay, R.A.
FOR COMMANDER NAVFAC 4/22/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER DETAILS

SCALE: AS SHOWN
EPROJECT NO. 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941887
SHEET 235 OF 499

CG504

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\IAY\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV P171-1737010-MAGZ-CG504.dwg PLOTTED: Wednesday, April 1, 2026 12:50:00 PM USER: michael.l.harr5

STRM - MAG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
P1	VDOT DI-1	62.99	INV OUT = 59.45 (15")(NE)	N: 3619512.72 E: 12038642.45
P2	VDOT MH-1	65.40	INV OUT = 58.20 (15")(NE) INV IN = 58.50 (15")(SW)	N: 3619596.35 E: 12038812.86
P3	VDOT EW-1	60.25	INV IN = 58.00 (15")(SW)	N: 3619613.94 E: 12038848.63
P4	VDOT DI-1 (DOUBLE)	65.33	INV OUT = 59.75 (15")(NE)	N: 3619485.04 E: 12038757.37
P5	VDOT DI-3B L=14'	66.66	INV IN = 58.76 (15")(NE) INV IN = 58.76 (15")(SW) INV OUT = 58.17 (18")(NW) INV IN = 60.89 (12")(SE)	N: 3619571.97 E: 12038934.27
P6	VDOT DI-3B L=14'	67.16	INV OUT = 59.26 (15")(SW)	N: 3619616.04 E: 12039024.03
P7	VDOT EW-1	60.50	INV IN = 58.00 (18")(SE)	N: 3619602.08 E: 12038919.47
P8	VDOT MH-1	67.76	INV IN = 60.84 (12")(SW) INV IN = 61.46 (12")(NE) INV OUT = 61.36 (12")(NW) INV IN = 61.78 (6")(SW) INV IN = 62.88 (6")(E)	N: 3619486.39 E: 12038970.99
P8.1	CO	67.32	INV OUT = 61.92 (12")(NE)	N: 3619391.19 E: 12038777.10
P8.2	CO	68.18	INV OUT = 62.68 (12")(SW)	N: 3619593.93 E: 12039190.02
P9	OCS	62.00	INV OUT = 54.06 (24")(NE) INV IN = 55.02 (6")(SW)	N: 3619663.88 E: 12038922.84
P9.1	CO	58.50	INV OUT = 55.42 (6")(NE)	N: 3619632.95 E: 12038875.04
P9.2	CO	58.50	INV OUT = 55.07 (6")(NE)	N: 3619654.45 E: 12038918.63
P9.3	CO	58.00	INV OUT = 55.42 (6")(NE)	N: 3619623.97 E: 12038879.43
P9.4	CO	58.50	INV OUT = 55.42 (6")(NE)	N: 3619615.00 E: 12038883.85
P9.5	CO	58.50	INV OUT = 55.17 (6")(NW)	N: 3619636.51 E: 12038927.48
P10	VDOT EW-1	59.00	INV IN = 53.00 (24")(SW)	N: 3619743.31 E: 12039078.06
P11	VDOT DI-3B L=6'	66.21	INV IN = 59.23 (15")(SW) INV OUT = 59.23 (15")(NE)	N: 3619531.29 E: 12038851.49
Q1	OCS	62.25	INV OUT = 55.00 (24")(SE) INV IN = 57.42 (6")(W) INV IN = 57.42 (6")(N)	N: 3619162.51 E: 12038883.80
Q1.1	CO	64.13	INV OUT = 62.50 (6")(NE)	N: 3618987.24 E: 12038516.55
Q1.2	CO	64.02	INV IN = 62.35 (6")(SW) INV OUT = 62.35 (6")(NE)	N: 3618999.78 E: 12038543.73
Q1.3	CO	62.50	INV OUT = 59.50 (6")(NE) INV IN = 59.50 (6")(SW)	N: 3619068.27 E: 12038679.62
Q1.4	CO	62.50	INV IN = 59.41 (6")(SW) INV OUT = 59.41 (6")(NE)	N: 3619076.20 E: 12038695.78
Q1.5	CO	60.57	INV OUT = 57.50 (6")(NE) INV IN = 57.50 (6")(SW)	N: 3619160.48 E: 12038869.32
Q1.6	CO	60.57	INV OUT = 57.50 (6")(SW)	N: 3619173.22 E: 12038895.75
Q2	VDOT MH-1	63.65	INV IN = 54.48 (24")(NW) INV OUT = 49.49 (24")(NE)	N: 3619115.66 E: 12038906.80
Q3	VDOT MH-1	63.94	INV IN = 48.57 (24")(SW) INV OUT = 43.60 (24")(S)	N: 3619156.35 E: 12038989.67
Q4	VDOT MH-1	53.67	INV IN = 43.23 (24")(N) INV OUT = 39.38 (36")(S) INV IN = 46.75 (15")(NE)	N: 3619123.70 E: 12039001.61
Q5	VDOT EW-1	43.24	INV IN = 39.00 (36")(N)	N: 3619088.47 E: 12039014.78

STRM - MAG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
Q6	VDOT DI-1	57.67	INV OUT = 53.00 (15")(SW)	N: 3619202.96 E: 12039176.57
R1	VDOT DI-3B L=14'	64.38	INV OUT = 59.47 (18")(SE)	N: 3619550.77 E: 12039306.46
R2	VDOT MH-1	64.62	INV IN = 57.44 (15")(W) INV OUT = 57.11 (18")(E) INV IN = 58.69 (18")(NW)	N: 3619406.75 E: 12039377.55
R3	VDOT DI-1 W/TRASH RACK VDOT SWM-1	61.18	INV OUT = 57.93 (15")(E)	N: 3619379.00 E: 12039282.43
R4	VDOT EW-1	59.50	INV IN = 57.00 (18")(W)	N: 3619412.90 E: 12039398.72
R5	OCS	59.00	INV OUT = 54.07 (30")(NW) INV IN = 54.02 (6")(SE)	N: 3619486.17 E: 12039381.89
R5.1	CO	57.49	INV OUT = 54.42 (6")(NW)	N: 3619435.15 E: 12039416.22
R5.2	CO	57.50	INV OUT = 54.28 (6")(N)	N: 3619450.57 E: 12039394.19
R5.3	CO	57.50	INV OUT = 54.42 (6")(NW)	N: 3619435.46 E: 12039432.37
R5.4	CO	57.00	INV IN = 54.07 (6")(NE)	N: 3619471.72 E: 12039384.04
R5.5	CO	57.00	INV OUT = 54.42 (6")(NW)	N: 3619443.43 E: 12039438.40
R5.6	CO	57.49	INV IN = 54.11 (6")(SE) INV OUT = 54.07 (6")(NW)	N: 3619479.87 E: 12039390.21
R5.7	CO	56.99	INV OUT = 54.42 (6")(NW)	N: 3619451.40 E: 12039444.44
R5.8	CO	56.99	INV OUT = 54.12 (6")(SW)	N: 3619487.88 E: 12039396.27
R6	VDOT MH-1	60.54	INV IN = 53.51 (30")(SE) INV OUT = 53.41 (30")(N)	N: 3619581.57 E: 12039330.37
R7	VDOT EW-1	56.49	INV IN = 53.20 (30")(S)	N: 3619622.48 E: 12039343.32
T1	VDOT DI-1	64.64	INV OUT = 60.55 (15")(NW) INV IN = 61.38 (12")(E)	N: 3619082.80 E: 12038133.59
T2	VDOT DI-3B L=6'	68.91	INV OUT = 59.33 (18")(NE) INV IN = 59.43 (15")(SW)	N: 3619212.17 E: 12038201.41
T3	VDOT DI-3B L=6'	68.68	INV IN = 59.10 (18")(SW) INV OUT = 59.00 (18")(NE)	N: 3619231.68 E: 12038241.15
T4	VDOT DI-3B L=6'	68.14	INV IN = 58.25 (24")(NE) INV IN = 58.40 (18")(SW) INV OUT = 58.19 (24")(NW)	N: 3619276.07 E: 12038331.55
T5	VDOT DI-3B L=6'	67.61	INV OUT = 58.75 (24")(SW) INV IN = 58.85 (15")(NE)	N: 3619320.14 E: 12038421.31
T6	VDOT EW-1	60.00	INV IN = 57.00 (24")(SW)	N: 3619356.62 E: 12038334.24
T7	VDOT DI-3B L=6'	66.54	INV OUT = 59.97 (15")(SW)	N: 3619410.60 E: 12038605.57
T8	VDOT DI-3B L=6'	66.99	INV IN = 59.53 (15")(NE) INV OUT = 59.43 (15")(SW) INV IN = 59.53 (12")(SE)	N: 3619371.66 E: 12038526.25
T9	VDOT MH-1	68.04	INV IN = 61.92 (12")(SW) INV OUT = 60.00 (12")(NW) INV IN = 60.80 (12")(NE) INV IN = 62.07 (6")(E) INV IN = 63.17 (6")(SW)	N: 3619291.61 E: 12038574.23
T9.1	CO	69.01	INV OUT = 63.00 (12")(NE)	N: 3619196.38 E: 12038380.33
T9.2	CO	67.38	INV OUT = 61.88 (12")(SW)	N: 3619386.78 E: 12038768.13
T10	OCS	59.00	INV IN = 53.80 (6")(S) INV OUT = 52.95 (36")(N)	N: 3619445.66 E: 12038488.53
T10.1	CO	57.50	INV OUT = 54.42 (6")(NE)	N: 3619397.99 E: 12038397.59

STRM - MAG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
T10.2	CO	57.50	INV IN = 53.92 (6")(SW) INV OUT = 53.82 (6")(N) INV IN = 53.82 (6")(SE)	N: 3619442.03 E: 12038487.29
T10.3	CO	57.50	INV OUT = 54.42 (6")(NE)	N: 3619389.01 E: 12038401.99
T10.4	CO	57.50	INV OUT = 54.42 (6")(NE)	N: 3619380.03 E: 12038406.40
T10.5	CO	57.50	INV OUT = 53.92 (6")(NW)	N: 3619424.07 E: 12038496.10
T11	VDOT MH-1	62.26	INV IN = 52.55 (36")(S) INV OUT = 46.39 (36")(N)	N: 3619464.59 E: 12038494.99
T12	VDOT EW-1	47.73	INV IN = 43.90 (36")(S)	N: 3619538.10 E: 12038500.69
T13	VDOT MH-1	68.96	INV IN = 64.28 (6")(SE) INV IN = 62.92 (12")(NE) INV OUT = 61.62 (12")(W)	N: 3619086.68 E: 12038156.82
T13.1	CO	69.29	INV OUT = 64.11 (12")(SW)	N: 3619191.99 E: 12038371.38
T14	VDOT EW-1	66.95	INV OUT = 65.02 (15")(NE)	N: 3619104.93 E: 12038051.75
T15	VDOT MH-1	52.46	INV IN = 45.47 (36")(S) INV OUT = 44.31 (36")(N)	N: 3619510.71 E: 12038498.57
T16	VDOT MH-1	68.55	INV IN = 64.45 (15")(SW) INV OUT = 60.01 (15")(NE) INV IN = 60.11 (15")(SE)	N: 3619160.22 E: 12038095.58
T17	VDOT MH-1	65.08	INV IN = 57.48 (24")(SE) INV OUT = 57.38 (24")(NE)	N: 3619339.91 E: 12038300.20
T18	VDOT DI-3B L=6'	68.41	INV IN = 58.75 (18")(SW) INV OUT = 58.65 (18")(NE)	N: 3619253.87 E: 12038286.35
T19	VDOT DI-3B L=6'	67.30	INV IN = 59.14 (15")(NE) INV OUT = 59.14 (15")(SW)	N: 3619345.90 E: 12038473.78

EDGE DRAIN - MAG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
CO-1	ED CO	71.68	INV OUT = 71.29 (4")(NE)	N: 3618623.49 E: 12037985.88
CO-2	ED CO	71.27	INV IN = 68.72 (4")(SW) INV OUT = 68.72 (4")(E)	N: 3618790.48 E: 12038235.77
CO-3	ED CO	71.01	INV OUT = 68.43 (4")(NE)	N: 3618803.30 E: 12038260.36
CO-4	ED CO	68.26	INV IN = 65.67 (4")(SW) INV OUT = 65.67 (4")(NE)	N: 3618924.78 E: 12038507.78
CO-5	ED CO	66.04	INV OUT = 63.46 (4")(NE) INV IN = 63.46 (4")(SW)	N: 3619022.54 E: 12038706.95
CO-9	ED CO	68.20	INV OUT = 65.62 (4")(W)	N: 3619241.34 E: 12039347.74
CO-10	ED CO	68.23	INV OUT = 65.63 (4")(E)	N: 3619240.51 E: 12039355.66
CO-12	ED CO	69.18	INV IN = 64.30 (4")(SE) INV OUT = 64.30 (4")(W)	N: 3618955.16 E: 12038128.90
CO-16	ED CO	68.15	INV IN = 65.57 (4")(SW) INV OUT = 65.57 (4")(NE)	N: 3619232.02 E: 12038247.51
CO-22	ED CO	66.78	INV OUT = 64.21 (4")(SW) INV IN = 64.21 (4")(NE)	N: 3619614.02 E: 12039025.58
EW-1	VDOT EW-12	66.79	INV IN = 66.40 (4")(NW)	N: 3618767.00 E: 12038253.68
EW-3	VDOT EW-12	64.22	INV IN = 61.83 (4")(W)	N: 3619206.04 E: 12039579.49
EW-4	VDOT EW-12	66.60	INV IN = 63.66 (4")(NE)	N: 3618947.82 E: 12038099.48
EW-5	VDOT EW-12	66.42	INV IN = 66.03 (4")(E)	N: 3619103.53 E: 12038055.69
EW-7	VDOT EW-12	61.29	INV IN = 58.05 (4")(NW)	N: 3619580.09 E: 12039433.99

STRM - MAG PIPE TABLE

PIPE	SIZE	LENGTH	SLOPE
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO	6"	1'	0.50%
TO P8	6"	4'	0.00%
TO P8	6"	4'	0.00%
TO Q1	6"	3'	0.50%
TO Q1	6"	3'	0.50%
TO R5.4	6"	9'	0.50%
TO T9	6"	4'	0.00%
TO T9	6"	4'	-0.05%
TO T13	6"	64'	0.00%
P1 TO P2	15"	187'	0.50%
P2 TO P3	15"	38'	0.50%
P4 TO P11	15"	101'	0.50%
P5 TO P7	18"	33'	0.50%
P6 TO P5	15"	98'	0.50%
P8 TO P5	12"	90'	0.50%
P8.1 TO P8	12"	214'	0.50%
P8.2 TO P8	12"	242'	0.50%
P9 TO P10	24"	172'	0.61%
P9.1 TO	6"	48'	0.51%
P9.2 TO P9	6"	7'	0.50%
P9.3 TO	6"	47'	0.52%
P9.4 TO	6"	47'	0.52%
P9.5 TO	6"	20'	0.50%
P11 TO P5	15"	90'	0.50%
Q1 TO Q2	24"	48'	1.00%
Q1.1 TO Q1.2	6"	29'	0.50%
Q1.2 TO Q1.3	6"	152'	1.87%
Q1.3 TO Q1.4	6"	18'	0.50%
Q1.4 TO Q1.5	6"	192'	0.99%
Q1.5 TO	6"	9'	0.50%
Q1.6 TO	6"	11'	0.50%
Q2 TO Q3	24"	88'	1.00%
Q3 TO Q4	24"	31'	1.07%
Q4 TO Q5	36"	36'	1.00%
Q6 TO Q4	15"	189'	3.25%
R1 TO R2	18"	158'	0.49%
R2 TO R4	18"	20'	0.50%
R3 TO R2	15"	94'	0.50%
R5 TO R6	30"	104'	0.51%
R5.1 TO	6"	28'	0.50%
R5.2 TO	6"	15'	0.50%
R5.3 TO	6"	59'	0.50%
R5.5 TO R5.6	6"	60'	0.50%

STRM - MAG PIPE TABLE

PIPE	SIZE	LENGTH	SLOPE
R5.6 TO R5	6"	8'	0.50%
R5.7 TO	6"	59'	0.50%
R5.8 TO	6"	9'	0.50%
R6 TO R7	30"	41'	0.50%
T1 TO T16	15"	83'	0.50%
T2 TO T3	18"	42'	0.50%
T3 TO T18	18"	47'	0.50%
T4 TO T17	24"	68'	1.00%
T5 TO T4	24"	98'	0.50%
T7 TO T8	15"	86'	0.50%
T8 TO T19	15"	55'	0.50%
T9 TO T8	12"	90'	0.50%
T9.1 TO T9	12"	214'	0.50%
T9.2 TO T9	12"	214'	0.50%
T10 TO T11	36"	18'	2.00%
T10.1 TO T10.2	6"	100'	0.50%
T10.2 TO T10	6"	4'	0.50%
T10.3 TO	6"	99'	0.50%
T10.4 TO	6"	99'	0.50%
T10.5 TO T10.2	6"	20'	0.50%
T11 TO T15	36"	42'	2.00%
T13 TO T1	12"	21'	1.00%
T13.1 TO T13	12"	237'	0.50%
T14 TO T16	15"	69'	0.80%
T15 TO T12	36"	25'	1.50%
T16 TO T2	15"	115'	0.50%
T17 TO T6	24"	36'	1.00%
T18 TO T4	18"	47'	0.50%
T19 TO T5	15"	55'	0.50%

GENERAL SHEET NOTES

1. SEE SHEETS CG101 AND CG102 FOR GRADING AND DRAINAGE LAYOUT.
2. SEE SHEETS CG201 THRU CG205 FOR STORMWATER PROFILES.
3. VDOT UD- 4 EDGE DRAIN SLOPES MATCH GUTTER SLOPE. OUTLET PIPES TO BE INSTALLED ON MINIMUM 2.0% SLOPES.

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
(signature on file)
FOR COMMANDER NAVFAC 4/22/2026

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.

SATISFACTORY TO DATE 03/26/2026

DES WJW | DRW SMT | CHK DLB

PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

STORM STRUCTURE SCHEDULE - MAGAZINE SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941888
SHEET 236 OF 499

CG601

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS_MAGAZINE\Sheet\05_CR\P171-1737010-MAGZ-CG601.dwg PLOTTED: Wednesday, April 1, 2026 12:50:22 PM USER: michael.t.hart5

STRM-SEG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
A1	VDOT EW-1	47.70	INV IN = 45.25 (18")(SW)	N: 3617715.28 E: 12046595.94
A2	VDOT DI-3B, L=4'	50.82	INV IN = 47.65 (4")(W) INV OUT = 45.33 (18")(NE) INV IN = 45.33 (18")(SW)	N: 3617693.75 E: 12046578.31
A2.1	FITTING	48.05	INV IN = 47.66 (4")(NW) INV OUT = 47.66 (4")(E)	N: 3617692.55 E: 12046574.47
A2.2	FITTING	48.88	INV IN = 48.49 (4")(NW) INV OUT = 48.49 (4")(SE)	N: 3617708.51 E: 12046545.50
A2.3	FITTING	51.02	INV OUT = 50.64 (4")(E)	N: 3617745.30 E: 12046432.84
A3	VDOT DI-3B, L=4'	50.86	INV OUT = 45.49 (18")(NE) INV IN = 45.49 (18")(SE)	N: 3617663.90 E: 12046562.04
A4	VDOT DI-3C, L=12'	49.67	INV OUT = 45.80 (18")(NW)	N: 3617585.93 E: 12046642.38
B1	VDOT EW-1	45.06	INV IN = 42.31 (24")(S)	N: 3617801.08 E: 12046648.50
B2	OCS 6" Ø ORIFICE INV=46.00	47.40	INV OUT = 42.44 (24")(N) INV IN = 42.44 (6")(SW)	N: 3617759.33 E: 12046637.46
B2.1	6" STORM CO	44.90	INV OUT = 42.66 (6")(E)	N: 3617757.79 E: 12046564.04
B2.2	6" STORM CO	43.96	INV OUT = 42.56 (6")(NE)	N: 3617737.50 E: 12046594.53
B2.3	FITTING	43.07	INV IN = 42.52 (6")(SW) INV OUT = 42.52 (6")(NE) INV IN = 42.52 (6")(W)	N: 3617743.96 E: 12046607.11
B2.4	6" STORM CO	44.90	INV OUT = 42.73 (6")(E)	N: 3617775.82 E: 12046540.62
B2.5	FITTING	43.03	INV IN = 42.48 (6")(SW) INV OUT = 42.48 (6")(NE) INV IN = 42.48 (6")(W)	N: 3617750.42 E: 12046619.69
C1	VDOT EW-1	43.31	INV IN = 41.10 (18")(NE)	N: 3617418.28 E: 12046784.47
C2	OCS 6" Ø ORIFICE INV=45.00	46.00	INV OUT = 41.37 (18")(SW) INV IN = 41.37 (6")(SE)	N: 3617458.92 E: 12046863.54
C2.1	6" STORM CO	43.90	INV OUT = 41.70 (6")(SW)	N: 3617534.51 E: 12046915.78
C2.2	90° BEND	41.97	INV IN = 41.43 (6")(NE) INV OUT = 41.43 (6")(NW)	N: 3617454.33 E: 12046872.06
D1	VDOT EW-1	46.46	INV IN = 44.00 (18")(NW)	N: 3617559.98 E: 12046904.62
D2	VDOT DI-3C, L=10'	48.69	INV IN = 44.09 (18")(NW) INV OUT = 44.09 (18")(SE)	N: 3617574.37 E: 12046878.03
D3	VDOT DI-7	49.43	INV OUT = 44.28 (18")(SE)	N: 3617604.77 E: 12046822.29
E1	OCS (2) 6" Ø ORIFICE INV=46.50	47.40	INV OUT = 43.08 (24")(N) INV IN = 43.08 (6")(SE)	N: 3618089.58 E: 12046013.34
E1.1	6" STORM CO	45.50	INV OUT = 43.36 (6")(W)	N: 3618029.60 E: 12046050.83
E1.2	90° BEND	43.77	INV IN = 43.23 (6")(E) INV OUT = 43.23 (6")(N)	N: 3618040.47 E: 12046010.56
E1.3	6" STORM CO	45.50	INV OUT = 43.33 (6")(W)	N: 3618039.10 E: 12046054.01

STRM-SEG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
E1.4	TEE	43.74	INV IN = 43.20 (6")(S) INV OUT = 43.20 (6")(N) INV IN = 43.20 (6")(E)	N: 3618050.24 E: 12046012.72
E1.5	6" STORM CO	44.65	INV OUT = 43.30 (6")(W)	N: 3618048.37 E: 12046058.05
E1.6	WYE	43.71	INV IN = 43.17 (6")(E) INV OUT = 43.17 (6")(N) INV IN = 43.17 (6")(S)	N: 3618060.03 E: 12046014.84
E1.7	6" STORM CO	45.50	INV OUT = 43.29 (6")(W)	N: 3618056.69 E: 12046065.61
E1.8	NULL STRUCTURE	43.68	INV IN = 43.14 (6")(S) INV OUT = 43.14 (6")(N) INV IN = 43.14 (6")(E)	N: 3618069.75 E: 12046017.03
E1.9	6" STORM CO	45.50	INV OUT = 43.26 (6")(W)	N: 3618066.21 E: 12046068.71
E1.10	NULL STRUCTURE	43.66	INV IN = 43.11 (6")(S) INV OUT = 43.11 (6")(NW) INV IN = 43.11 (6")(E)	N: 3618079.60 E: 12046019.08
E2	VDOT MH-1	48.09	INV IN = 42.84 (24")(S) INV OUT = 42.84 (24")(N)	N: 3618134.83 E: 12045998.62
E3	24" VDOT ES-1	44.28	INV IN = 41.95 (24")(S)	N: 3618232.68 E: 12046005.93
F1	VDOT EW-1	46.36	INV OUT = 43.90 (18")(N)	N: 3618119.55 E: 12045953.04
F2	VDOT MH-1	43.40	INV IN = 39.84 (18")(S) INV OUT = 39.68 (18")(NW)	N: 3618285.86 E: 12045985.93
F3	VDOT EW-1	41.89	INV IN = 39.43 (18")(SE)	N: 3618360.48 E: 12045948.58
G1	VDOT DI-7	51.50	INV OUT = 46.96 (15")(E)	N: 3618176.03 E: 12046296.15
G2	VDOT DI-3C, L=6'	51.80	INV IN = 46.89 (15")(W) INV OUT = 46.89 (15")(N)	N: 3618172.92 E: 12046309.09
G3	VDOT DI-3C, L=6'	50.87	INV IN = 46.44 (15")(S) INV OUT = 46.44 (18")(W)	N: 3618260.58 E: 12046324.51
G4	VDOT DI-3C, L=6'	51.35	INV OUT = 45.73 (18")(NW) INV IN = 45.73 (18")(E)	N: 3618291.19 E: 12046186.87
G5	VDOT DI-7 GRATE A, TYPE 1 W/ TRASH RACK (VDOT SWM-1)	49.75	INV IN = 45.58 (18")(SE) INV OUT = 45.58 (18")(W)	N: 3618317.25 E: 12046172.48
G6	VDOT EW-1	47.97	INV IN = 45.52 (18")(E)	N: 3618324.20 E: 12046152.32
H1	OCS (3) 4" Ø ORIFICE INV=45.50	47.50	INV OUT = 43.06 (24")(NW) INV IN = 43.06 (6")(SE)	N: 3618308.63 E: 12046080.23
H1.1	6" STORM CO	45.50	INV OUT = 43.24 (6")(NE)	N: 3618259.64 E: 12046069.92
H1.2	6" STORM CO	45.50	INV OUT = 43.21 (6")(SW)	N: 3618325.95 E: 12046118.19
H1.3	TEE	43.64	INV IN = 43.10 (6")(NE) INV OUT = 43.10 (6")(NW) INV IN = 43.10 (6")(SW)	N: 3618301.08 E: 12046089.73
H2	VDOT EW-1	45.13	INV IN = 42.38 (24")(SE)	N: 3618352.06 E: 12046025.43
I1	VDOT EW-6	41.58	INV OUT = 38.58 (24")(NW)	N: 3618390.81 E: 12046018.04
I2	VDOT EW-6	41.24	INV IN = 38.24 (24")(SE)	N: 3618405.29 E: 12045986.81

STRM-SEG STRUCTURE TABLE

STR. NO.	STTRUCTURE	RIM	INVERT	COORDINATES
J1	VDOT DI-3B, L=4'	49.73	INV OUT = 45.73 (18")(N)	N: 3618157.74 E: 12046042.23
J2	VDOT DI-3B, L=4'	49.71	INV IN = 45.63 (18")(S) INV OUT = 45.63 (18")(N)	N: 3618191.23 E: 12046048.24
J3	18" VDOT ES-1	47.29	INV IN = 45.50 (18")(S)	N: 3618234.15 E: 12046061.19
K1	VDOT DI-3C, L=8'	52.30	INV OUT = 45.72 (18")(N)	N: 3617714.23 E: 12046306.94
K2	VDOT DI-3C, L=8'	51.84	INV IN = 45.44 (18")(S) INV OUT = 45.44 (18")(E) INV IN = 46.24 (4")(SW) INV IN = 46.88 (4")(SE)	N: 3617770.18 E: 12046304.54
K2.1	FITTING	46.71	INV IN = 46.32 (4")(W) INV OUT = 46.32 (4")(NE)	N: 3617744.69 E: 12046293.81
K2.2	FITTING	48.10	INV IN = 47.71 (4")(W) INV OUT = 47.71 (4")(E)	N: 3617740.12 E: 12046181.32
K2.3	FITTING	50.13	INV IN = 49.74 (4")(W) INV OUT = 49.74 (4")(E)	N: 3617727.39 E: 12046080.56
K2.4	FITTING	50.56	INV OUT = 50.18 (4")(E)	N: 3617722.87 E: 12046059.19
K2.5	FITTING	47.35	INV IN = 46.96 (4")(E) INV OUT = 46.96 (4")(NW)	N: 3617767.31 E: 12046307.43
K2.6	FITTING	49.70	INV IN = 49.31 (4")(E) INV OUT = 49.31 (4")(W)	N: 3617770.11 E: 12046372.97
K2.7	FITTING	51.03	INV OUT = 50.65 (4")(W)	N: 3617769.63 E: 12046411.59
K3	VDOT ES-1	46.69	INV IN = 44.90 (18")(W)	N: 3617783.73 E: 12046484.54
L1	VDOT DI-3C, L=10'	51.09	INV OUT = 46.91 (18")(W)	N: 3618073.97 E: 12046282.24
L2	VDOT DI-3B, L=12'	51.80	INV OUT = 46.00 (18")(SW) INV IN = 46.10 (18")(E)	N: 3618106.26 E: 12046136.13
L3	VDOT EW-1	47.96	INV IN = 45.50 (18")(NE)	N: 3618074.64 E: 12046106.64
M1	VDOT DI-3C, L=10'	49.36	INV OUT = 45.31 (18")(SW)	N: 3617746.53 E: 12046747.52
M2	VDOT DI-3A	49.97	INV OUT = 44.99 (18")(NW) INV IN = 44.99 (18")(NE)	N: 3617696.74 E: 12046652.03
M3	VDOT EW-1	47.37	INV IN = 44.91 (18")(SE)	N: 3617711.76 E: 12046630.26
N1	VDOT EW-1	52.00	INV OUT = 49.00 (24")(W)	N: 3618046.12 E: 12046222.80
N2	24" VDOT ES-1	47.83	INV IN = 45.50 (24")(E)	N: 3618056.20 E: 12046133.00

GENERAL SHEET NOTES

A. SEE SHEETS CG104 AND CG105 FOR GRADING AND DRAINAGE LAYOUT.

B. SEE SHEETS CG204 AND CG205 FOR STORMWATER PROFILES.

C. EDGE DRAIN SLOPES MATCH GUTTER SLOPE. OUTPLET PIPES TO BE INSTALLED ON MINIMUM 2.0% SLOPES. SEE SHEET CG501 FOR EDGE DRAIN DETAIL.

STRM-SEG PIPE TABLE

PIPE	SIZE	LENGTH	SLOPE
TO	30"	17'	2.02%
TO	24"	34'	1.00%
A2 TO A1	18"	28'	0.30%
A2.1 TO A2	4"	4'	0.30%
A2.2 TO A2.1	4"	33'	2.51%
A2.3 TO A2.2	4"	119'	1.80%
A3 TO A2	18"	34'	0.46%
A4 TO A3	18"	112'	0.28%
B2 TO B1	24"	43'	0.30%
B2.1 TO B2.3	6"	45'	0.30%
B2.2 TO B2.3	6"	14'	0.30%
B2.3 TO B2.5	6"	14'	0.30%
B2.4 TO B2.5	6"	83'	0.30%
B2.5 TO B2	6"	20'	0.21%
C2 TO C1	18"	89'	0.30%
C2.1 TO C2.2	6"	91'	0.30%
C2.2 TO C2	6"	10'	0.61%
D2 TO D1	18"	30'	0.30%
D3 TO D2	18"	63'	0.30%
E1 TO E2	24"	48'	0.50%
E1.1 TO E1.2	6"	42'	0.30%
E1.2 TO E1.4	6"	10'	0.30%
E1.3 TO E1.4	6"	43'	0.30%
E1.4 TO E1.6	6"	10'	0.30%
E1.5 TO E1.6	6"	45'	0.30%
E1.6 TO E1.8	6"	10'	0.30%
E1.7 TO E1.8	6"	50'	0.30%
E1.8 TO E1.10	6"	10'	0.30%
E1.9 TO E1.10	6"	51'	0.30%
E1.10 TO E1	6"	12'	0.30%
E2 TO E3	24"	98'	0.91%
F1 TO F2	18"	170'	2.39%
F2 TO F3	18"	83'	0.30%
G1 TO G2	15"	13'	0.50%
G2 TO G3	15"	89'	0.50%
G3 TO G4	18"	141'	0.50%
G4 TO G5	18"	30'	0.50%
G5 TO G6	18"	21'	0.30%
H1 TO H2	24"	70'	0.97%
H1.1 TO H1.3	6"	46'	0.30%
H1.2 TO H1.3	6"	38'	0.30%

STRM-SEG PIPE TABLE

PIPE	SIZE	LENGTH	SLOPE
H1.3 TO H1	6"	12'	0.30%
I1 TO I2	24"	34'	1.00%
J1 TO J2	18"	34'	0.30%
J2 TO J3	18"	45'	0.30%
K1 TO K2	18"	56'	0.50%
K2 TO K3	18"	181'	0.30%
K2.1 TO K2	4"	28'	0.28%
K2.2 TO K2.1	4"	113'	1.24%
K2.3 TO K2.2	4"	102'	2.00%
K2.4 TO K2.3	4"	22'	2.00%
K2.5 TO K2	4"	4'	1.91%
K2.6 TO K2.5	4"	66'	3.58%
K2.7 TO K2.6	4"	39'	3.45%
L1 TO L2	18"	150'	0.54%
L2 TO L3	18"	43'	1.16%
M1 TO M2	18"	108'	0.30%
M2 TO M3	18"	26'	0.30%
N1 TO N2	24"	90'	3.87%

MARK	DESCRIPTION	DATE

NAVFAC

SEAL

A/E INFO

APPROVED
DANIEL P. CARRIGAN, P.E.
FOR COMMANDER NAVFAC

ACTIVITY
Approved by LCDR VINCE DEL GRECO, ROICC with PWD YORKTOWN, via Email.
SATISFACTORY TO DATE 03/26/2026

DES DRG | DRW MTH | CHK DLB
PM/DM MME/WJW
BRANCH MANAGER DLB
CHIEF ENG/ARCH JWJ
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

STORM STRUCTURE SCHEDULE - SEGREGATION SITE

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941889
SHEET 237 OF 499

CG602

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NAYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-BLDG-CG602.dwg PLOTTED: Wednesday, April 1, 2026 12:51:01 PM USER: naavro.madigan