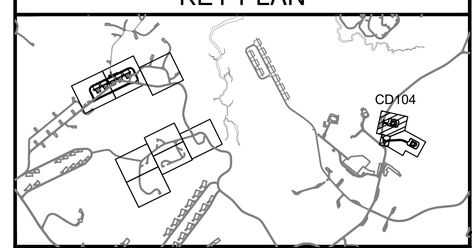
SHEET KEYNOTES

1. CLEAR AND GRUB
2. SAWCUT AND REMOVE ASPHALT PAVEMENT AND BASE COURSE
3. REMOVE GRAVEL/BALLAST STONE
4. REMOVE ABANDONED WATER LINE
5. REMOVE ABANDONED SANITARY LINE
6. REMOVE STORM PIPE
7. REMOVE CONCRETE HEADWALL
8. CUT AND PLUG UTILITY
9. REMOVE PAVED DITCH
10. MILL ASPHALT 2" DEPTH
11. REMOVE STORM MANHOLE
12. RELOCATE/REMOVE FIBER, SEE ELECTRICAL DEMOLITION PLANS
13. REMOVE AND REPLACE STORM PIPE
14. REMOVE TREE
15. REMOVE SURFACE DEBRIS AND DISPOSE OFFSITE (A)

GENERAL SHEET NOTES

A. SEE C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
B. REFER TO CE001 FOR EROSION AND SEDIMENT CONTROL NOTES AND SHEET CE104-105 FOR APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY DEMOLITION ACTIVITIES.
C. SITE FEATURES SHOWN FROM RECORD DRAWINGS ARE FOR INFORMATION ONLY. PAVEMENT AND BUILDINGS WERE DEMOLISHED BETWEEN 2003 AND 2004. BUILDING FOUNDATIONS AND UTILITIES MAY HAVE BEEN ABANDONED IN PLACE. REFER TO GUIDED MISSILE SUPPORT FACILITY RECORD DRAWINGS.
D. SCAN THE CONSTRUCTION SITE WITH GROUND PENETRATING RADAR (GPR), ELECTROMAGNETIC, OR SONIC EQUIPMENT, AND MARK THE SURFACE OF THE GROUND OR PAVED SURFACE WHERE EXISTING UNDERGROUND UTILITIES ARE DISCOVERED. VERIFY THE SIZE, MATERIAL, AND ELEVATIONS OF EXISTING PIPING, CONDUITS, DUCTBANKS OR OTHER UTILITIES THROUGH TEST PITS AND PROVIDE DETAILED INFORMATION TO THE CONTRACTING OFFICER FOR VERIFICATION OF THE DESIGN.
E. SEE ED101 FOR REMOVAL OF ELECTRICAL LINE, COMMUNICATION LINE AND STRUCTURES.
F. EXISTING STORMWATER HYDRAULICS MUST BE MAINTAINED OR MITIGATED TO SUPPORT CONSTRUCTION ACTIVITIES.
G. REFER TO CG104 - CG104 FOR FINAL GRADING AND DRAINAGE.
H. REFER TO LP104 - LP105 FOR LANSCAPING PLANTING.

KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	ADDED SHEET KEY NOTE 15.	6/12/26

NAVFAC

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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

DEMOLITION PLAN - SEGREGATION FACILITIES

SCALE: 1" = 30'
EPROJECT NO.: 1737010
CONSTR. CONTR. NO.: ##
NAVFAC DRAWING NO.: 12941795
SHEET 143 OF 499

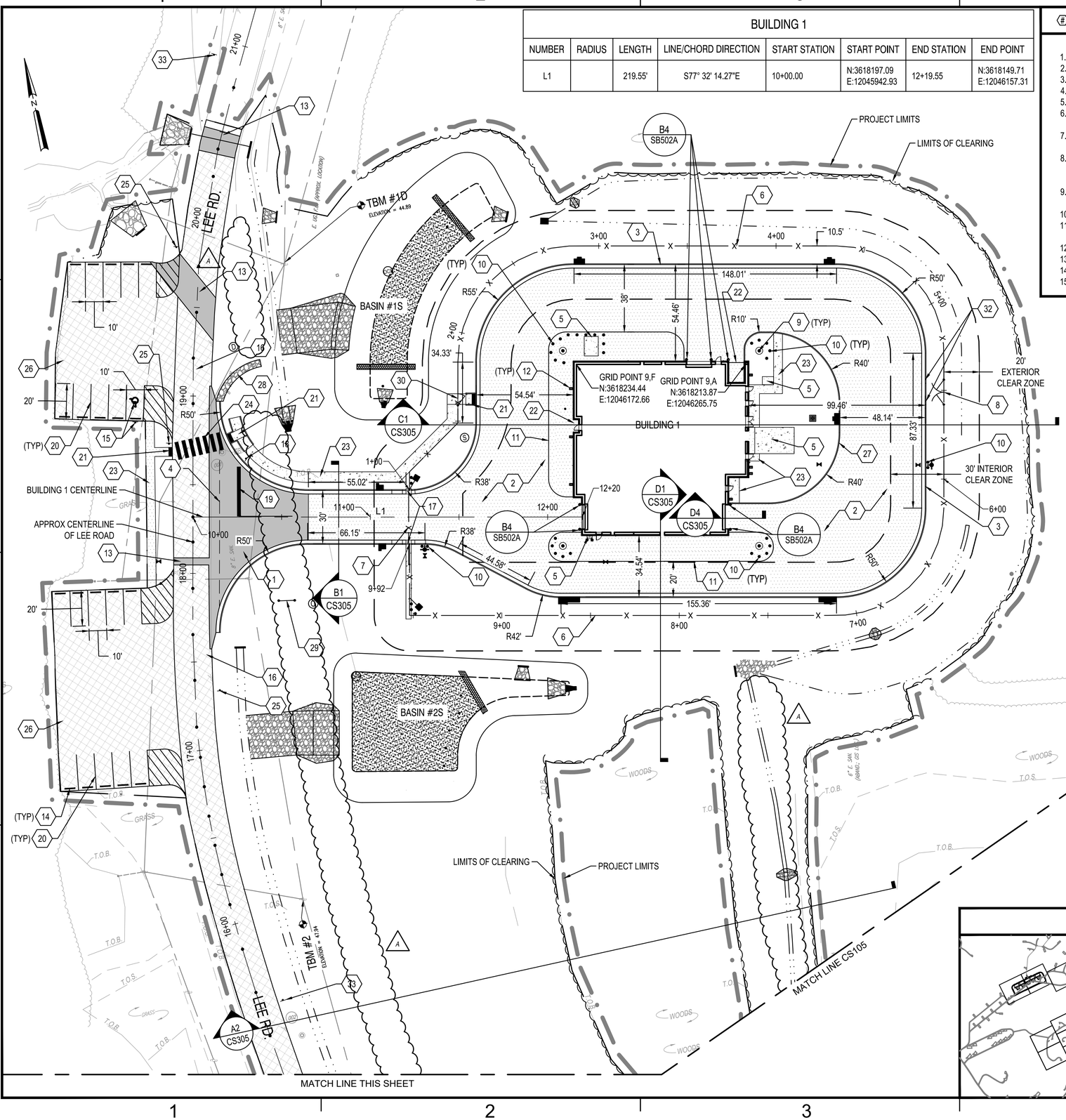
CD104

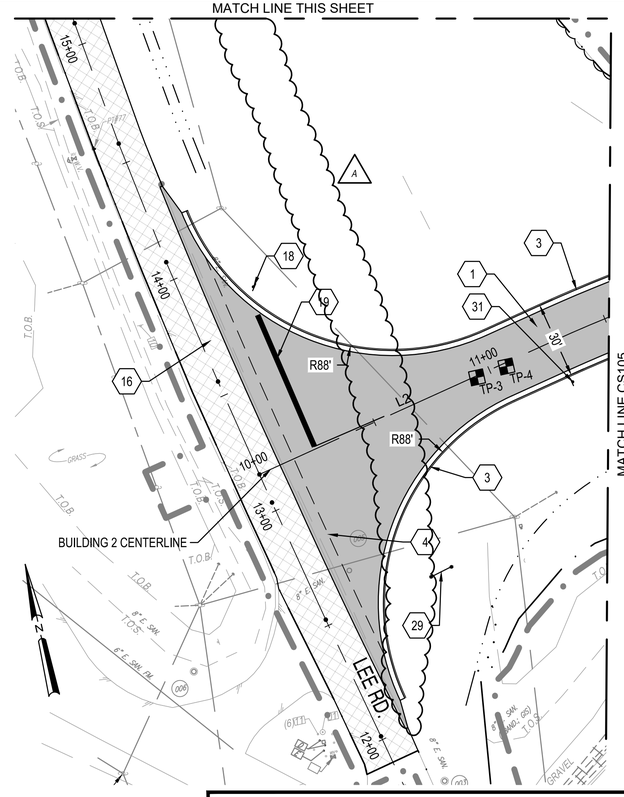
DRAWFORM REVISION: 14 SEP 2023

BUILDING 1							
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START STATION	START POINT	END STATION	END POINT
L1		219.55'	S77° 32' 14.27"E	10+00.00	N:3618197.09 E:12045942.93	12+19.55	N:3618149.71 E:12046157.31

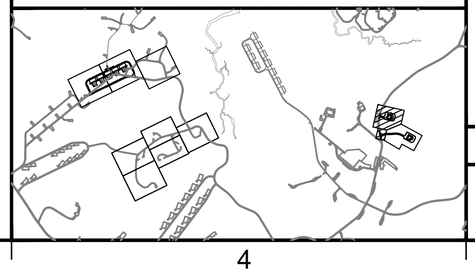
SHEET KEYNOTES

1. HEAVY DUTY ASPHALT PAVEMENT, DETAIL A1/CS511
2. HEAVY-DUTY CONCRETE PAVEMENT, DETAIL B1/CS511
3. VDOT STANDARD CG-6, 6" CURB AND GUTTER
4. VDOT STANDARD CG-11 ENTRANCE
5. CONCRETE EQUIPMENT PAD, DETAIL B2/CS511
6. 7' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE, DETAIL B1/CS502
7. 32' SINGLE CANTILEVER SLIDING MANUAL GATE, DETAIL A1/CS510
8. 14' DOUBLE SWING MAINTENANCE ACCESS GATE, PROVIDE DROP ARM AND LOCK ASSEMBLY ON INSIDE, DETAIL C1/CS503
9. LIGHTNING MAST, SEE EG101A FOR ADDITIONAL INFORMATION
10. 8" BOLLARD, DETAIL A4/CS511
11. 4" WIDE WHITE PAVEMENT MARKING WITH 6" BLACK BACKGROUND
12. CONCRETE SPLASHBLOCK, DETAIL B4/AE503A
13. PAVEMENT PATCH, DETAIL A2/CS511
14. CONCRETE WHEELSTOP, DETAIL A4/CS501
15. ACCESSIBLE PARKING SPACE AND SIGN, DETAIL B4/CS501
16. VARIABLE THICKNESS ASPHALT OVERLAY, DETAIL A5/CS511
17. END SECTION CURB AND GUTTER, DETAIL D2/CS511
18. MUTCD R1-1 STOP SIGN AND POST, DETAIL A1/CS501
19. 24" WHITE STOP BAR PAVEMENT MARKING, DETAIL C4/CS501
20. 4" WIDE WHITE PAVEMENT MARKING
21. VDOT STANDARD CG-12 HANDICAP RAMP
22. ROOF LINE ABOVE
23. 6' CONCRETE SIDEWALK, DETAIL C2/CS511
24. 10' PAINTED CROSSWALK, DETAIL B4/CS511
25. MUTCD W11-2/W16-7PL PEDESTRIAN CROSSING SIGN AND POST, DETAIL A1/CS501
26. 3" ASPHALT OVERLAY, DETAIL C1/CS511
27. VDOT STANDARD CG-2 6" CONCRETE CURB
28. 2' WIDE RIP RAP CHANNEL
29. PEDESTAL SIGN, DETAIL A3/LS501
30. 6' SINGLE MANUAL SWING PERSONNEL GATE, ACCESSORIES SHALL BE ACCESSIBLE FROM EXTERIOR SIDE, DETAIL C4/CS510
31. SPEED LIMIT 15 MPH SIGN, DETAIL A1/CS501
32. CURB WIPEDOWN, DETAIL D1/CS511
33. SPEED LIMIT 25 MPH SIGN, DETAIL A1/CS501





KEY PLAN



GENERAL SHEET NOTES

A. SEE SHEET C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
B. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND DETAILS.
C. NORTHING AND EASTING COORDINATES FOR THE BUILDING ARE TO THE STRUCTURAL GRIDLINES.
D. DIMENSIONS ARE TO FACE OF CURB.
E. SEE SHEET CS402 FOR JOINTING PLAN.
F. SEE SHEET CS601 FOR FENCE LAYOUT TABLES.

GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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
SITE LAYOUT PLAN - SEGREGATION FACILITIES

SCALE: 1" = 30'
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941805
SHEET 153 OF 499

CS104

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\AV\Yorktown\MIL\CON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINES\Sheets\05_CIV\P171-1737010-BLDG-CS104.dwg LAYOUT NAME: CS104 PLOTTED: Thursday, June 11, 2026 - 10:52am USER: sarah.m.turner

GENERAL SHEET NOTES

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

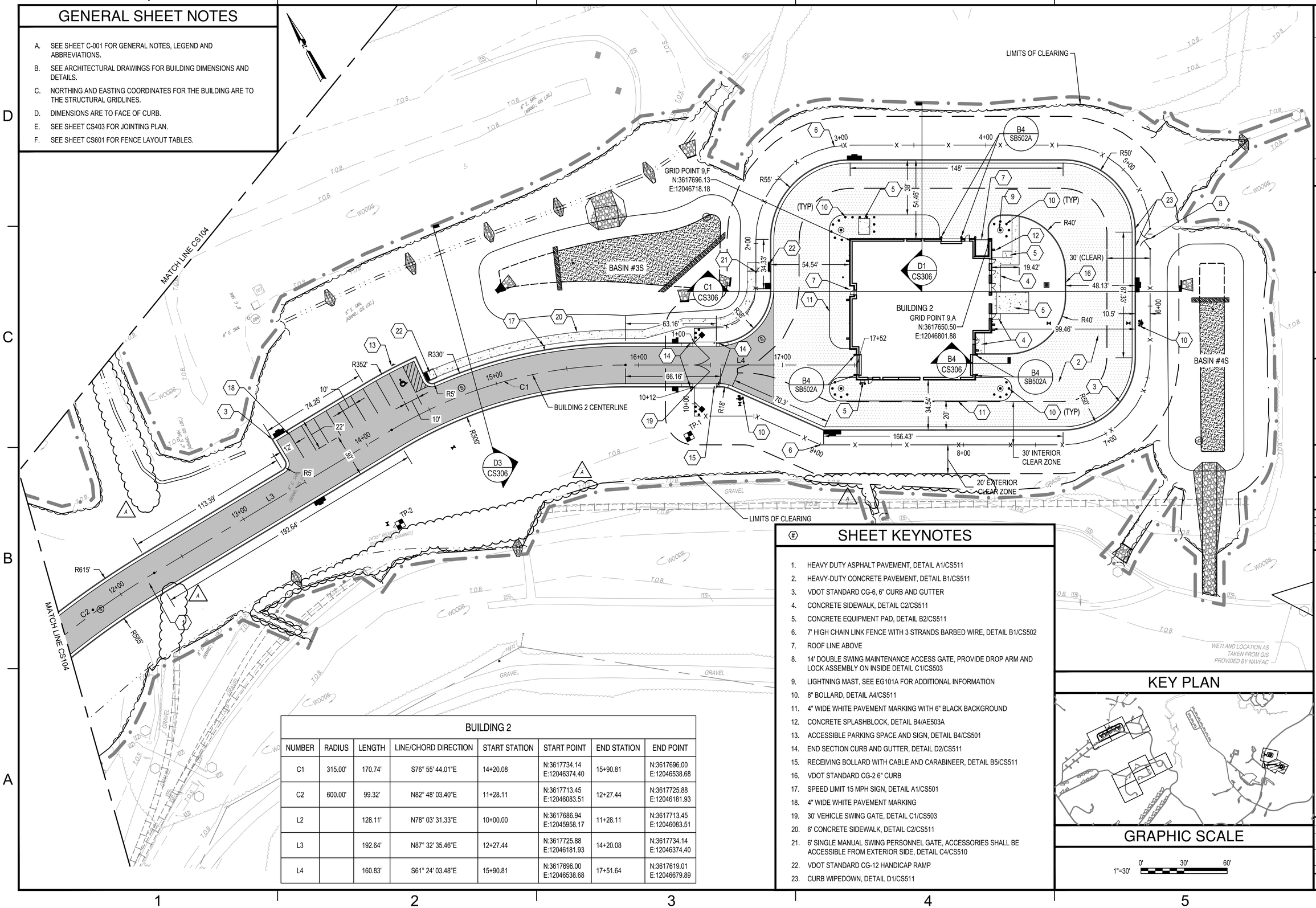
B. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND DETAILS.

C. NORTHING AND EASTING COORDINATES FOR THE BUILDING ARE TO THE STRUCTURAL GRIDLINES.

D. DIMENSIONS ARE TO FACE OF CURB.

E. SEE SHEET CS403 FOR JOINTING PLAN.

F. SEE SHEET CS601 FOR FENCE LAYOUT TABLES.



BUILDING 2

NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START STATION	START POINT	END STATION	END POINT
C1	315.00'	170.74'	S76° 55' 44.01"E	14+20.08	N:3617734.14 E:12046374.40	15+90.81	N:3617696.00 E:12046538.68
C2	600.00'	99.32'	N82° 48' 03.40"E	11+28.11	N:3617713.45 E:12046083.51	12+27.44	N:3617725.88 E:12046181.93
L2		128.11'	N78° 03' 31.33"E	10+00.00	N:3617686.94 E:12045958.17	11+28.11	N:3617713.45 E:12046083.51
L3		192.64'	N87° 32' 35.46"E	12+27.44	N:3617725.88 E:12046181.93	14+20.08	N:3617734.14 E:12046374.40
L4		160.83'	S61° 24' 03.48"E	15+90.81	N:3617696.00 E:12046538.68	17+51.64	N:3617619.01 E:12046679.89

SHEET KEYNOTES

1. HEAVY DUTY ASPHALT PAVEMENT, DETAIL A1/CS511
2. HEAVY-DUTY CONCRETE PAVEMENT, DETAIL B1/CS511
3. VDOT STANDARD CG-6, 6" CURB AND GUTTER
4. CONCRETE SIDEWALK, DETAIL C2/CS511
5. CONCRETE EQUIPMENT PAD, DETAIL B2/CS511
6. 7' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE, DETAIL B1/CS502
7. ROOF LINE ABOVE
8. 14' DOUBLE SWING MAINTENANCE ACCESS GATE, PROVIDE DROP ARM AND LOCK ASSEMBLY ON INSIDE DETAIL C1/CS503
9. LIGHTNING MAST, SEE EG101A FOR ADDITIONAL INFORMATION
10. 8" BOLLARD, DETAIL A4/CS511
11. 4" WIDE WHITE PAVEMENT MARKING WITH 6" BLACK BACKGROUND
12. CONCRETE SPLASHBLOCK, DETAIL B4/AE503A
13. ACCESSIBLE PARKING SPACE AND SIGN, DETAIL B4/CS501
14. END SECTION CURB AND GUTTER, DETAIL D2/CS511
15. RECEIVING BOLLARD WITH CABLE AND CARABINEER, DETAIL B5/CS511
16. VDOT STANDARD CG-2 6" CURB
17. SPEED LIMIT 15 MPH SIGN, DETAIL A1/CS501
18. 4" WIDE WHITE PAVEMENT MARKING
19. 30' VEHICLE SWING GATE, DETAIL C1/CS503
20. 6' CONCRETE SIDEWALK, DETAIL C2/CS511
21. 6' SINGLE MANUAL SWING PERSONNEL GATE, ACCESSORIES SHALL BE ACCESSIBLE FROM EXTERIOR SIDE, DETAIL C4/CS510
22. VDOT STANDARD CG-12 HANDICAP RAMP
23. CURB WIPEDOWN, DETAIL D1/CS511

KEY PLAN

GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

SITE LAYOUT PLAN - SEGREGATION FACILITIES

SCALE:	1" = 30'
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941806
SHEET	154 OF 499

CS105

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NAVY\ktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV\P171-1737010-BLDG-CS105.dwg LAYOUT NAME: CS105 PLOTTED: Thursday, June 11, 2026 - 10:53am USER: sarah.m.turner

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.

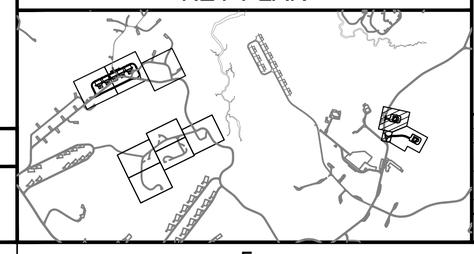
G. A 1.5" ASPHALT OVERLAY WAS PLACED ON LEE ROAD AFTER THE TOPOGRAPHIC SURVEY WAS PERFORMED. PLEASE NOTE THAT CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG LEE ROAD ARE APPROXIMATELY 0.12" HIGHER THAN INDICATED.

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

MATCH LINE THIS SHEET

MATCH LINE SHEET CG105

KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

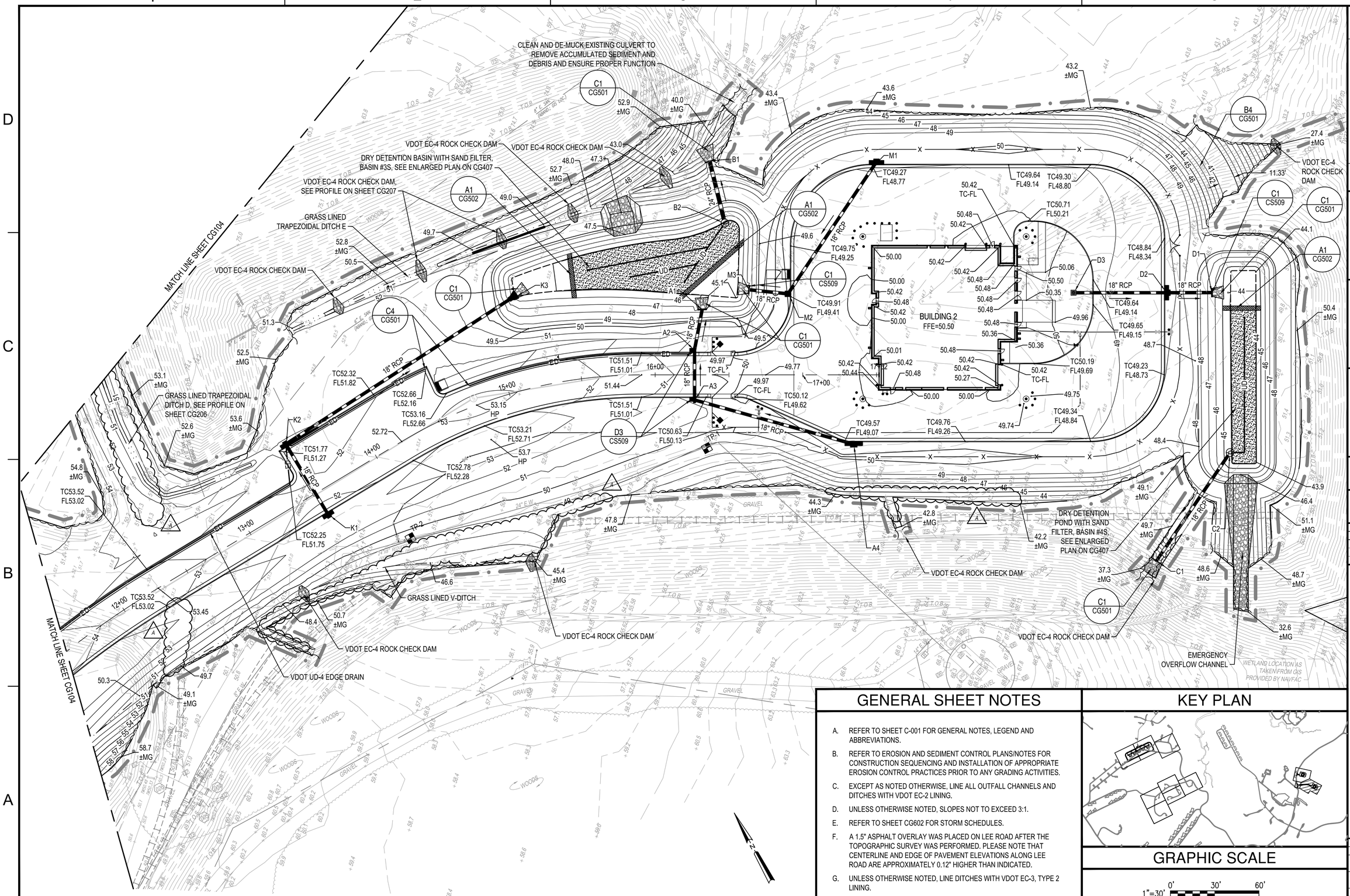
GRADING PLAN - SEGREGATION FACILITIES

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: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIVIL\P171-1737010-BLDG-CG104.dwg LAYOUT NAME: CG104 PLOTTED: Thursday, June 11, 2026 - 10:54am USER: sarah.m.turner



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

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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

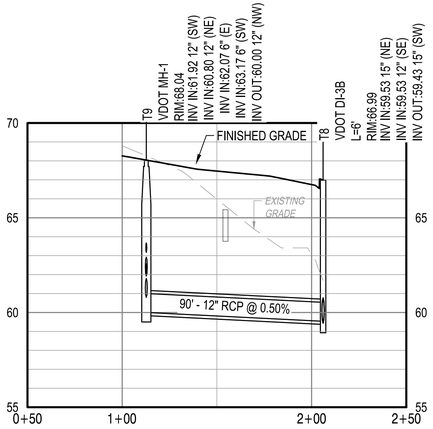
GRADING PLAN - SEGREGATION FACILITIES

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

CG105

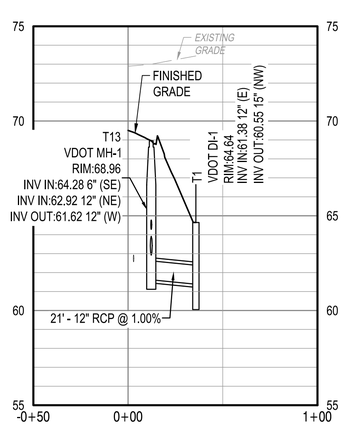
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\WLCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINES\Sheet\GS_GVP171-1737010-BLDG-CG104.dwg LAYOUT NAME: CG105 PLOTTED: Thursday, June 11, 2026 - 10:54am USER: sarah.m.turner



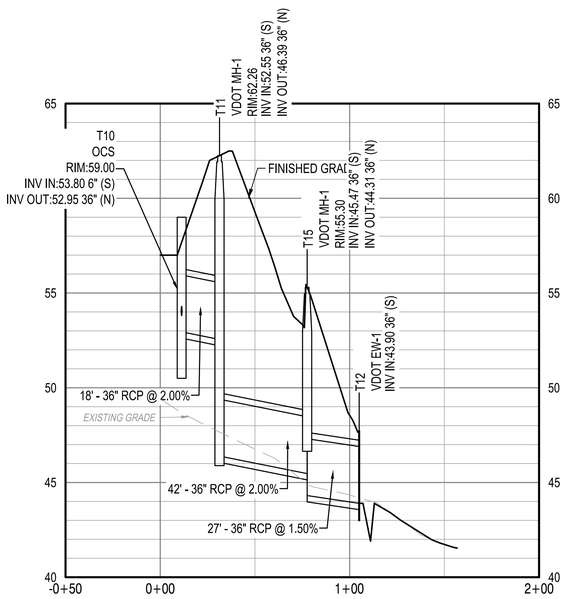
B1 STORM PROFILE T9 TO T8

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



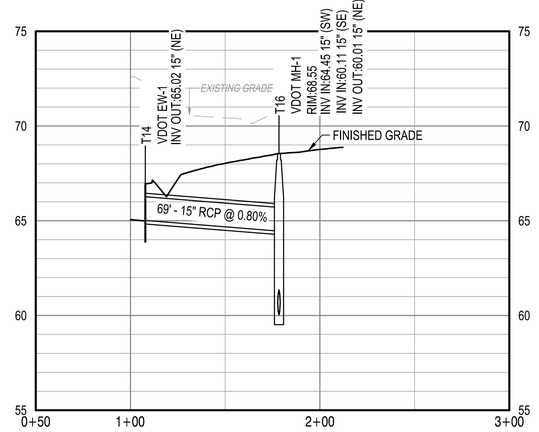
B2 STORM PROFILE T13 TO T1

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



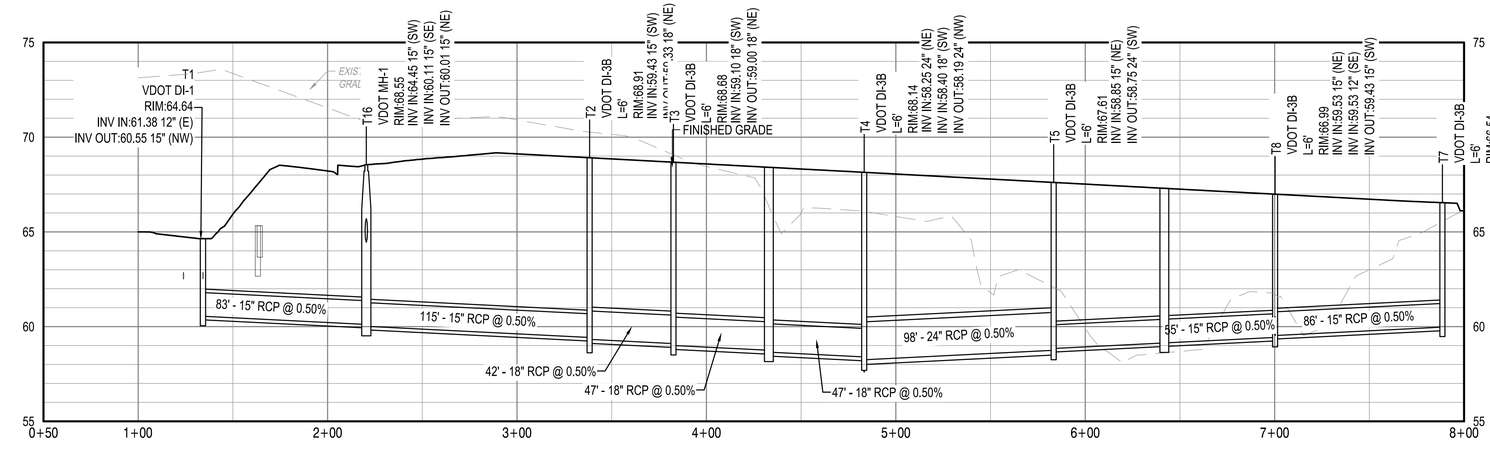
B3 STORM PROFILE T10 TO T12

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



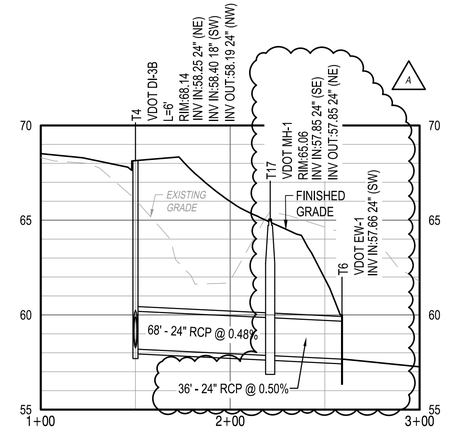
B4 STORM PROFILE T14 TO T2

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
A	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

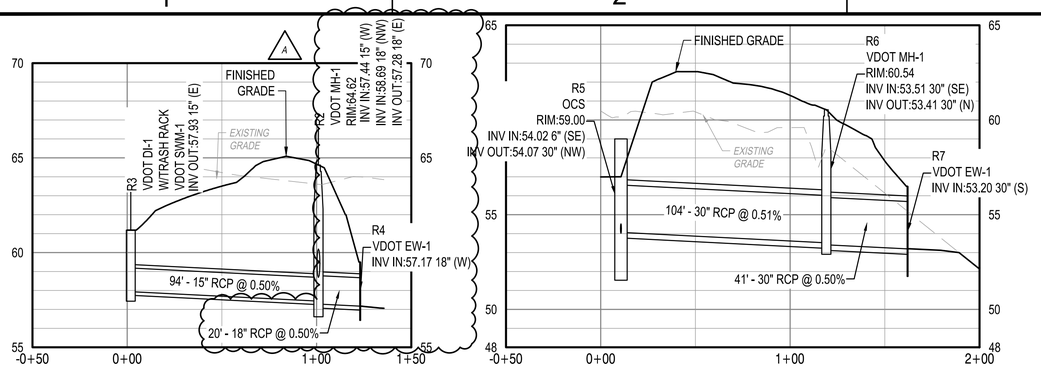
DRAINAGE PROFILES - MAGAZINE SITE

SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941866
SHEET	214 OF 499

CG201

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-CG201.dwg LAYOUT NAME: CG201 PLOTTED: Thursday, June 11, 2026 - 10:55am USER: sarah.m.turner

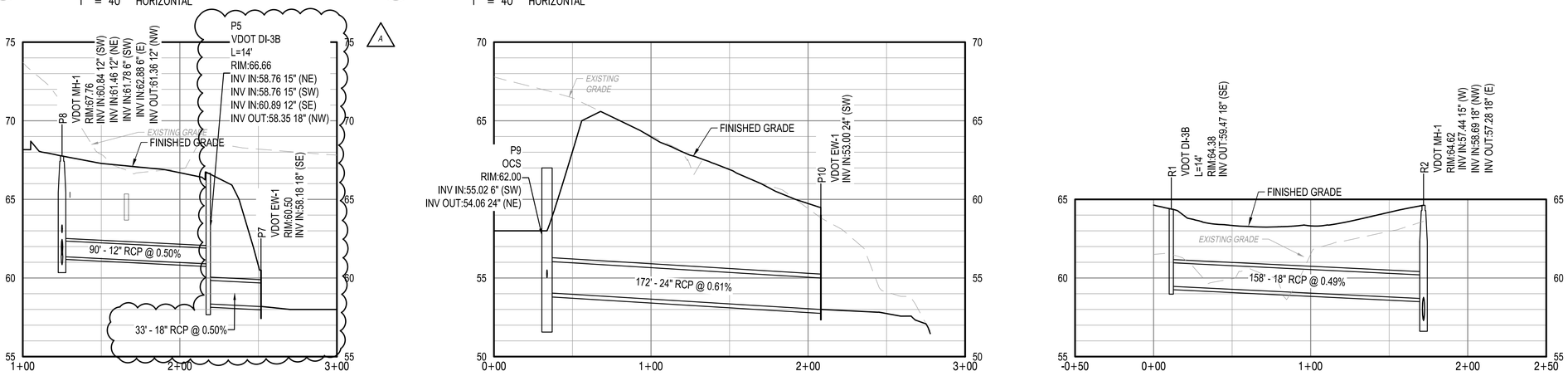


C1 STORM PROFILE R3 TO R4

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

C2 STORM PROFILE R5 TO R7

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

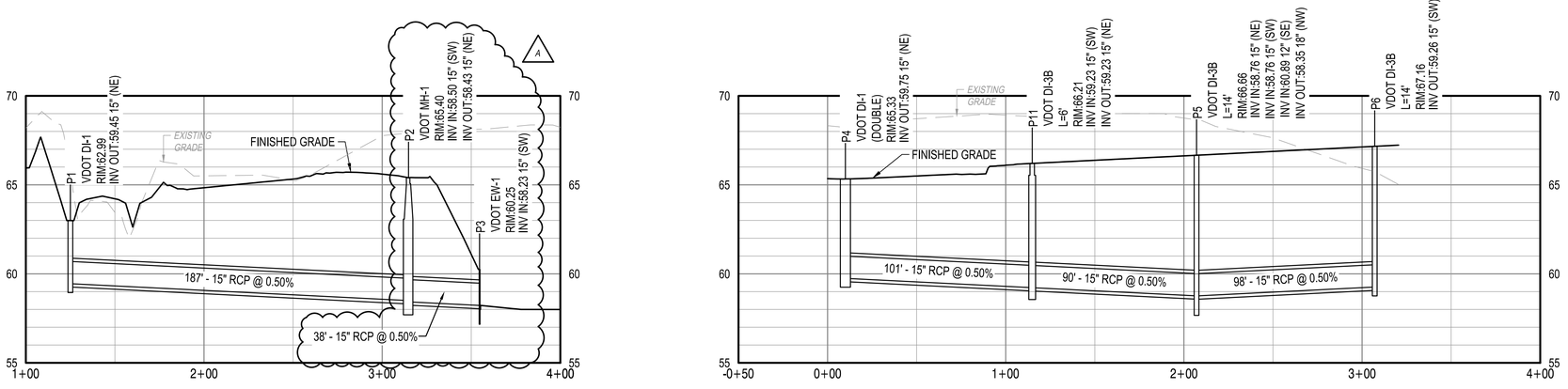


B1 STORM PROFILE P8 TO P7

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

B2 STORM PROFILE P9 TO P10

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



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

B4 STORM PROFILE R1 TO R2

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
A	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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

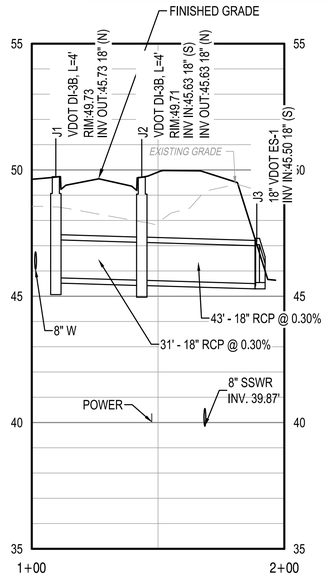
DRAINAGE PROFILES - MAGAZINE SITE

SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941867
SHEET	215 OF 499

CG202

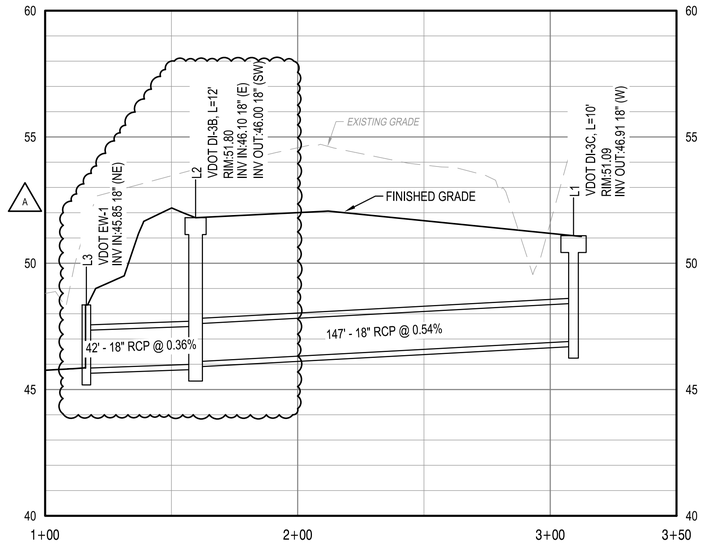
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINE\Sheet\05_Civil\P171-1737010-MAG2 - CG202.dwg LAYOUT NAME: CG202 PLOTTED: Thursday, June 11, 2026 - 10:56am USER: sarah.m.turner



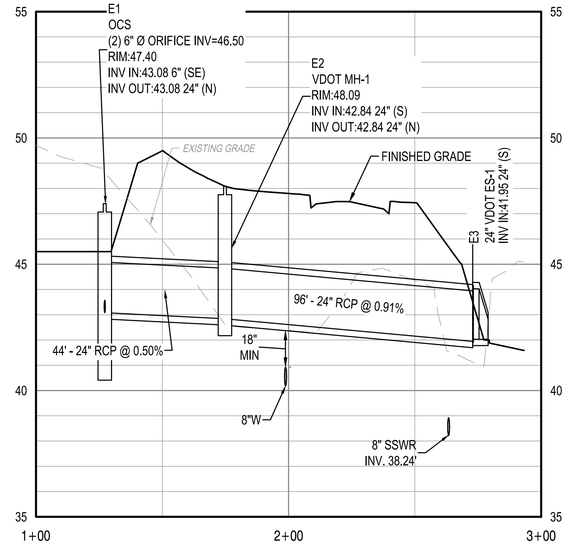
C1 STORM PROFILE J1-J3

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



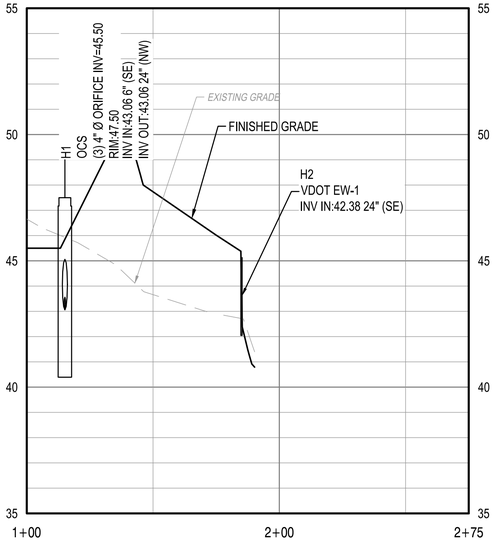
C2 STORM PROFILE L1-L3

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



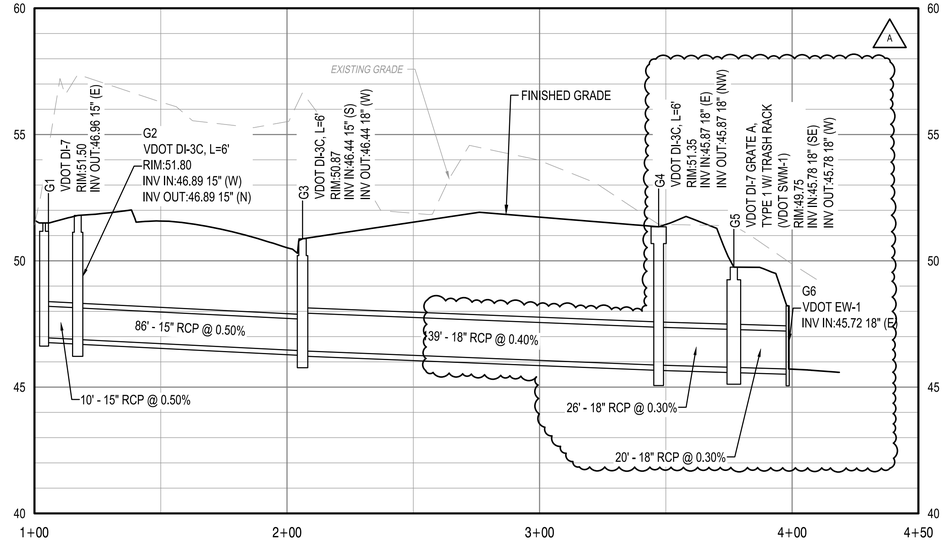
C4 STORM PROFILE E1-E3

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
A	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

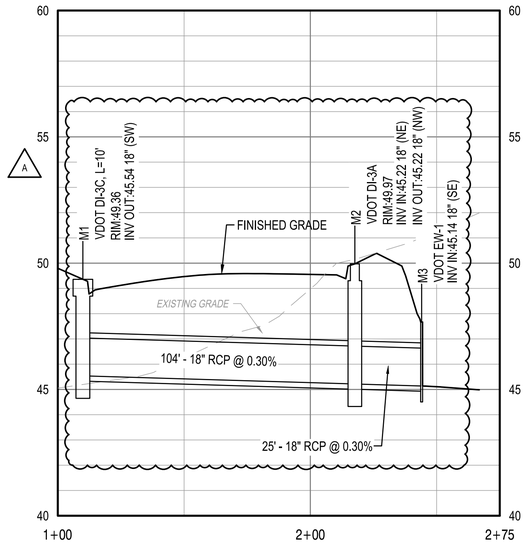
DRAINAGE PROFILES - SEGREGATION FACILITIES

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

CG204

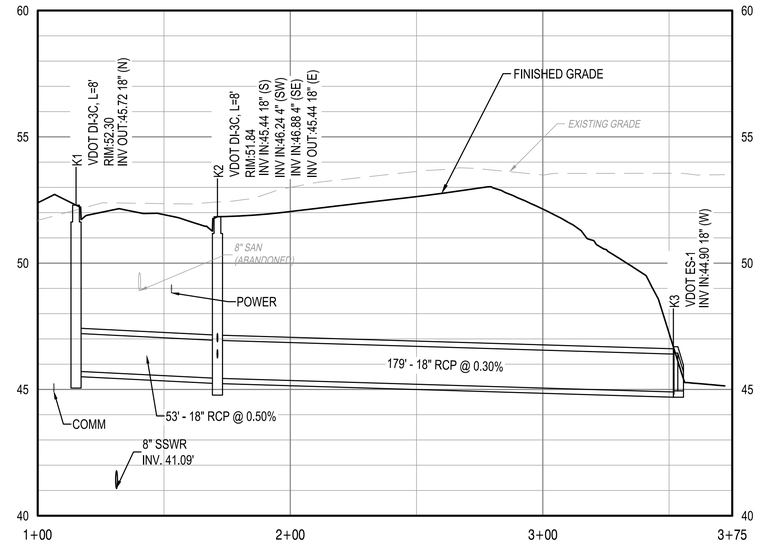
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\NAVY\eldsonm\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV.P171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG204 PLOTTED: Thursday, June 11, 2026 - 10:56am USER: sarah.m.turner



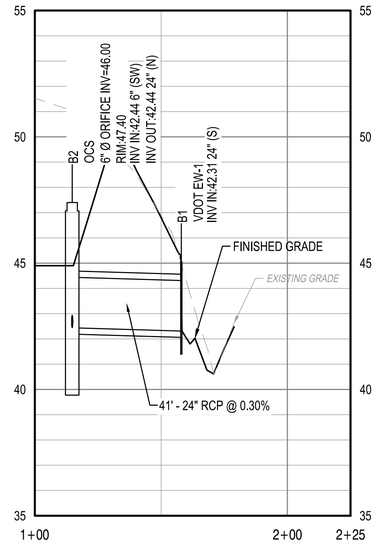
C1 STORM PROFILE A1-A2

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



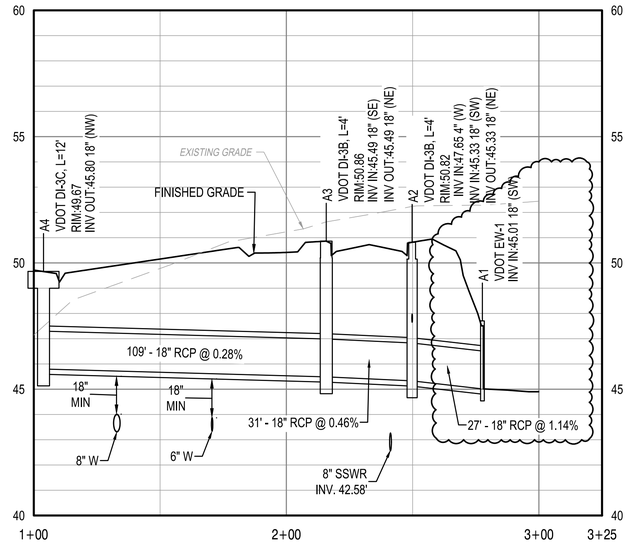
C2 STORM PROFILE K1-K3

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



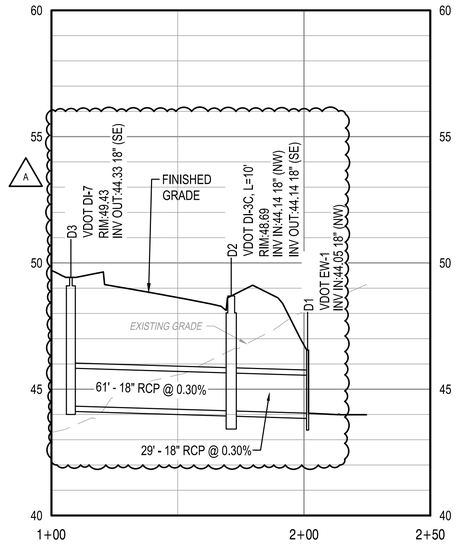
C4 STORM PROFILE B2-B1

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



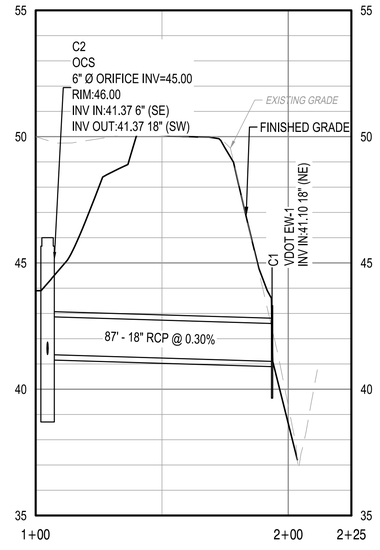
A1 STORM PROFILE A4-A1

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
A	REVISED DRAINAGE	6/12/26

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

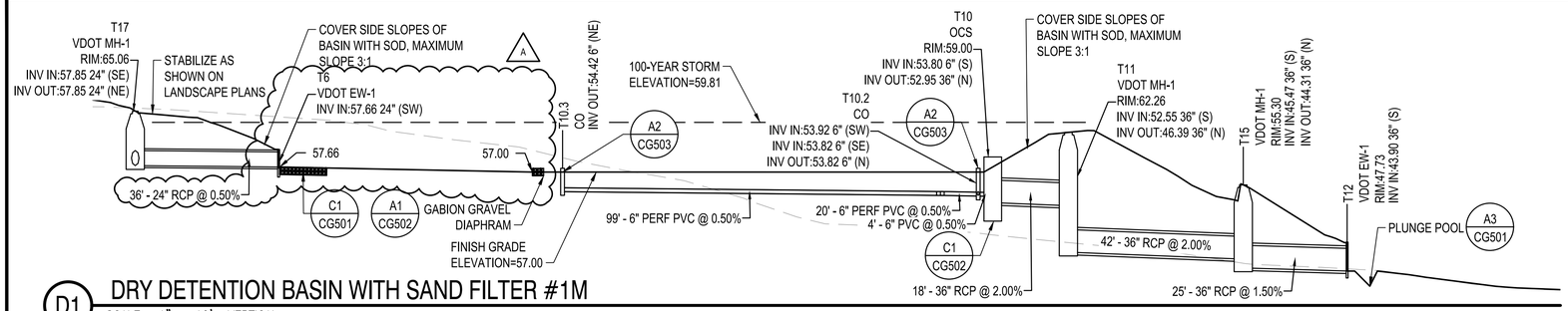
DRAINAGE PROFILES - SEGREGATION FACILITIES

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

CG205

DRAWFORM REVISION: 14 SEP 2023

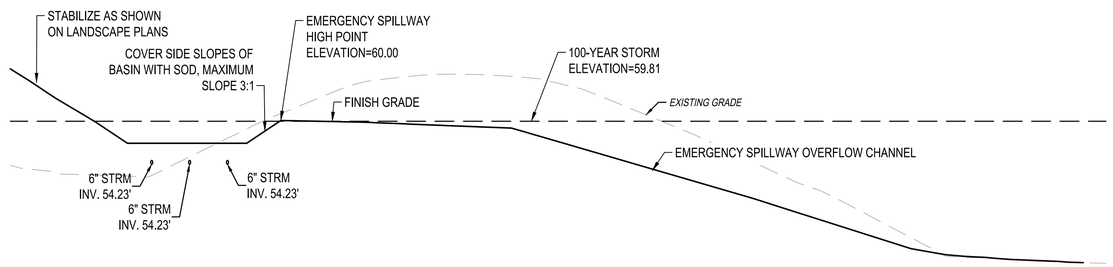
FILE NAME: K:\NAVY\elsmith\MLCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV.P171-1737010-BLDG-CG204.dwg LAYOUT NAME: CG205 PLOTTED: Thursday, June 11, 2026 - 10:56am USER: sarah.turner



D1 DRY DETENTION BASIN WITH SAND FILTER #1M

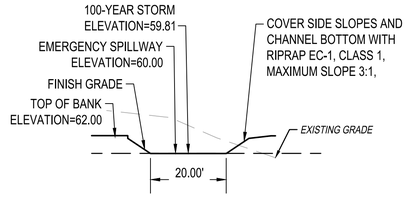
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

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	



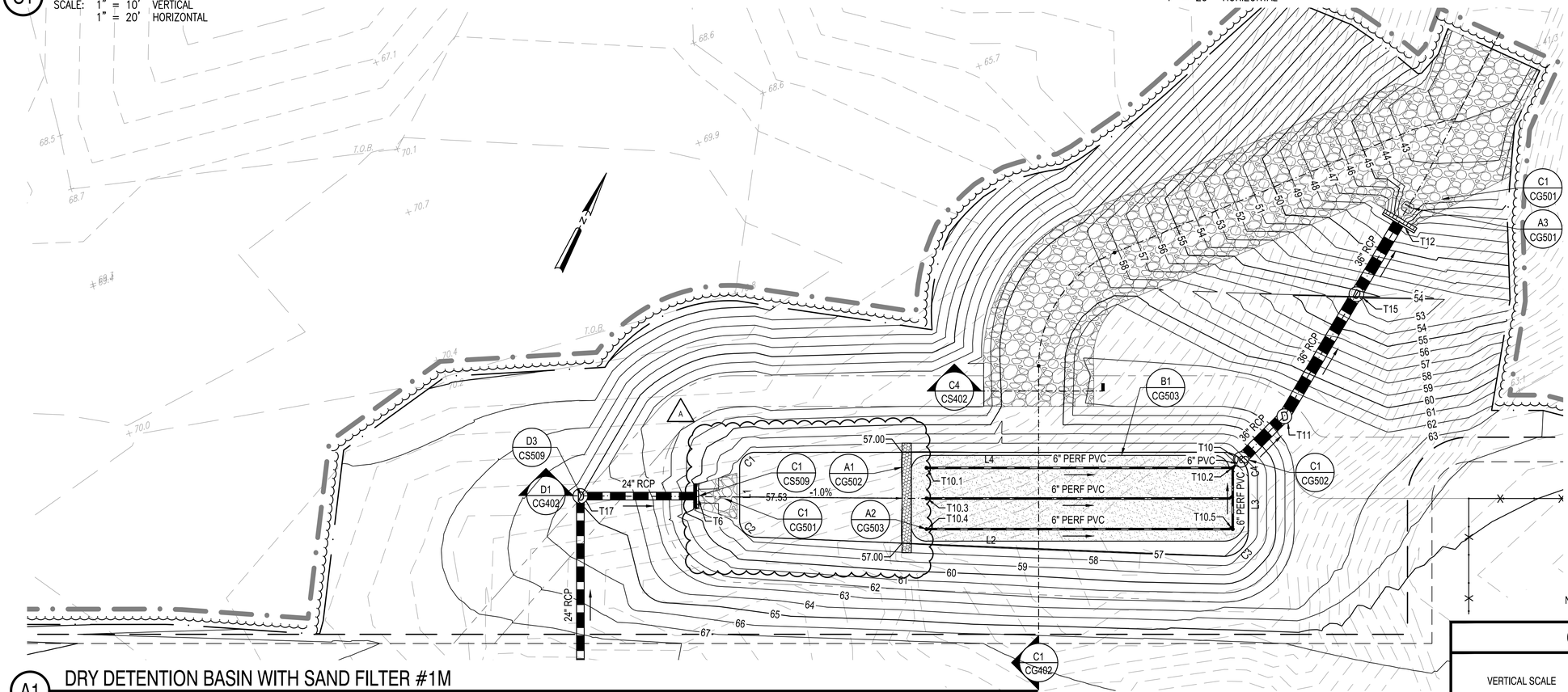
C1 DRY DETENTION BASIN WITH SAND FILTER #1M

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'

GRAPHIC SCALE

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

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

MARK	DESCRIPTION	DATE
A	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
James E. Jaquish, P.E.
FOR COMMANDER NAVFAC 6/16/2026

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

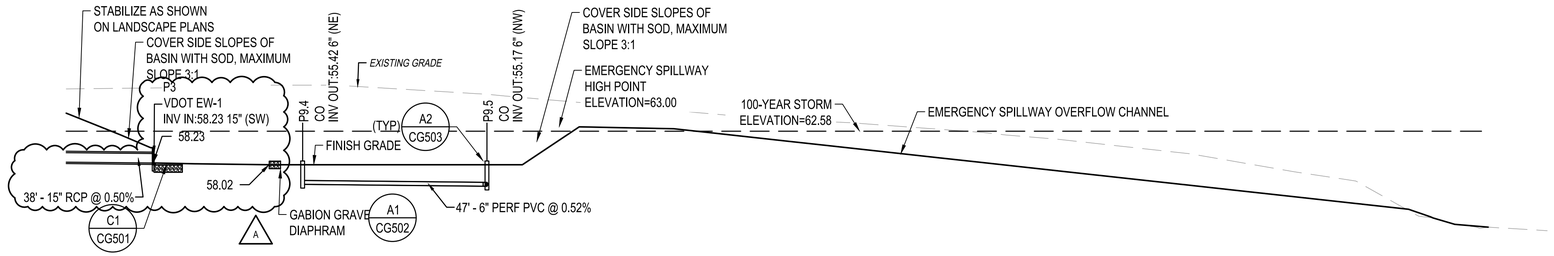
SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941874
SHEET	222 OF 499

CG402

DRAWFORM REVISION: 14 SEP 2023

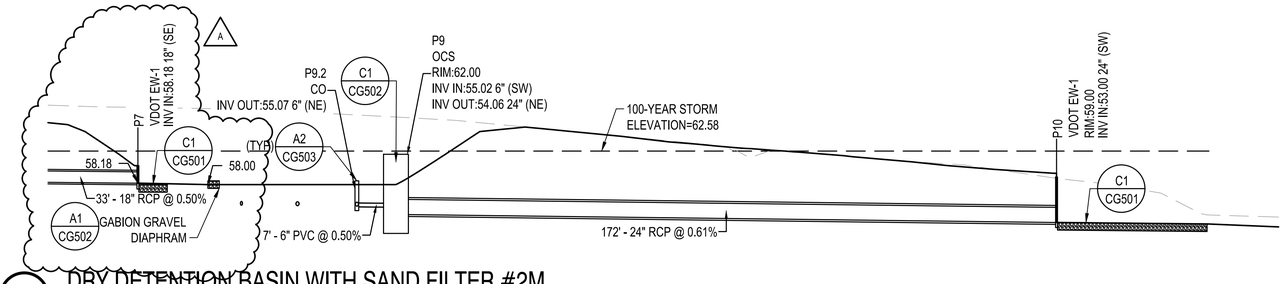
FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-MAG2-CG402.dwg LAYOUT NAME: CG402 PLOTTED: Thursday, June 11, 2026 - 10:57am USER: sarah.m.turner

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	



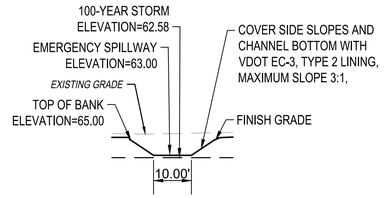
D1 DRY DETENTION BASIN WITH SAND FILTER #2M

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



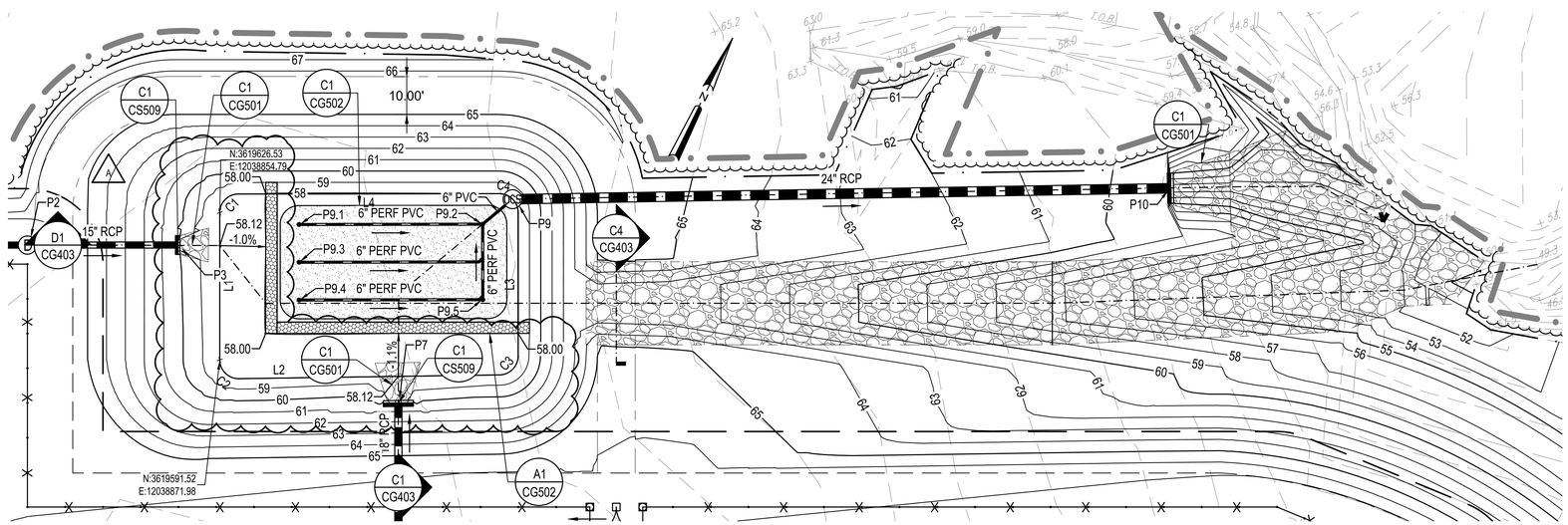
C1 DRY DETENTION BASIN WITH SAND FILTER #2M

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
A	REVISED DRAINAGE	6/12/26

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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/OM	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

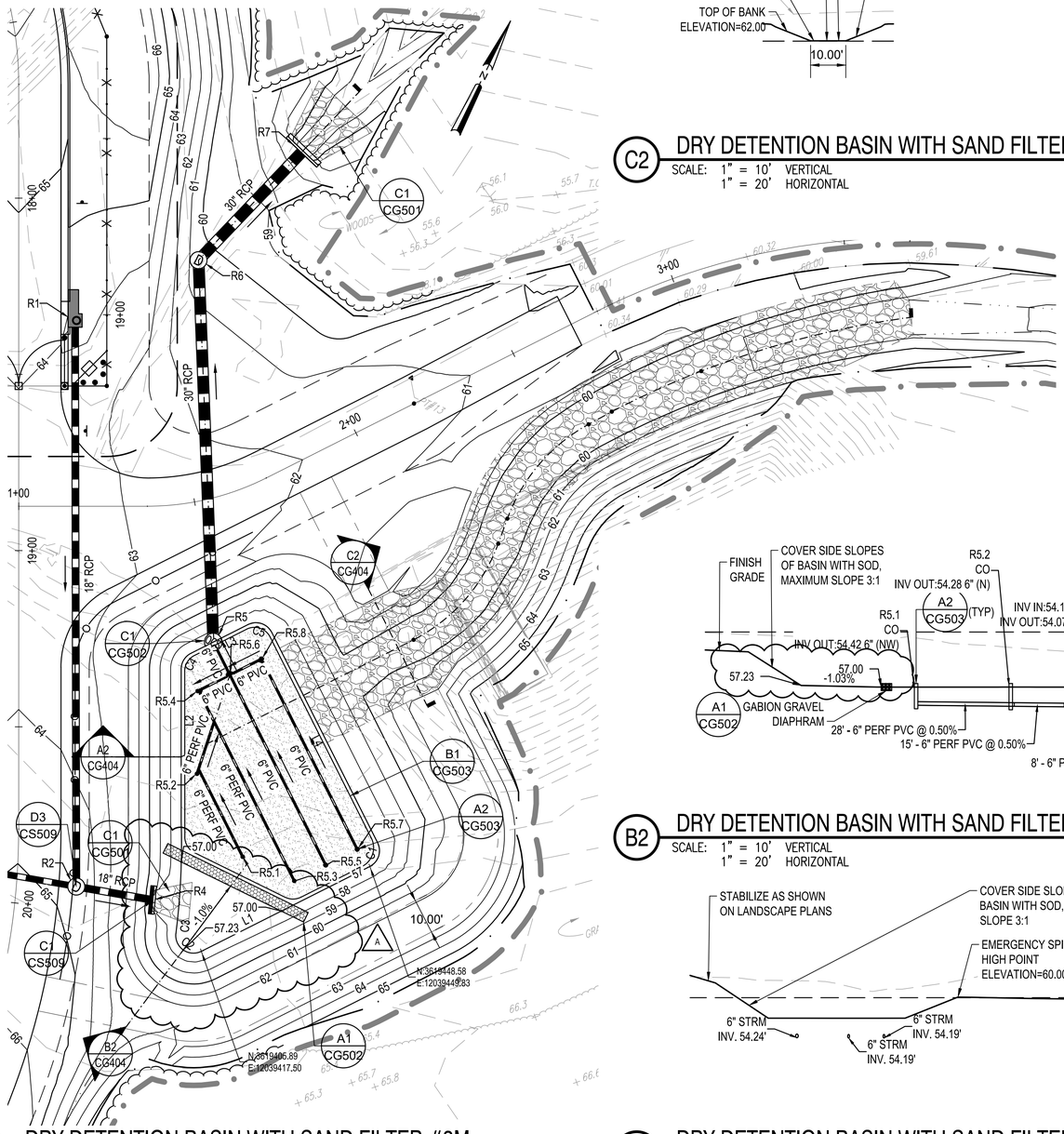
SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941875
SHEET	223 OF 499

CG403

DRAWFORM REVISION: 14 SEP 2023

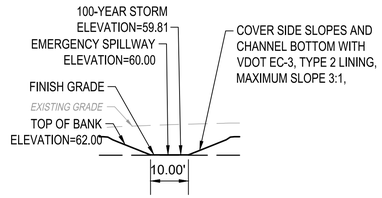
FILE NAME: K:\VA\Yorktown\WLCON\2024_1737010_P171_Weapons_Magazines\6_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-MAG2-CG403.dwg LAYOUT NAME: CG403 PLOTTED: Thursday, June 11, 2026 - 10:58am USER: sarah.m.turner

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	



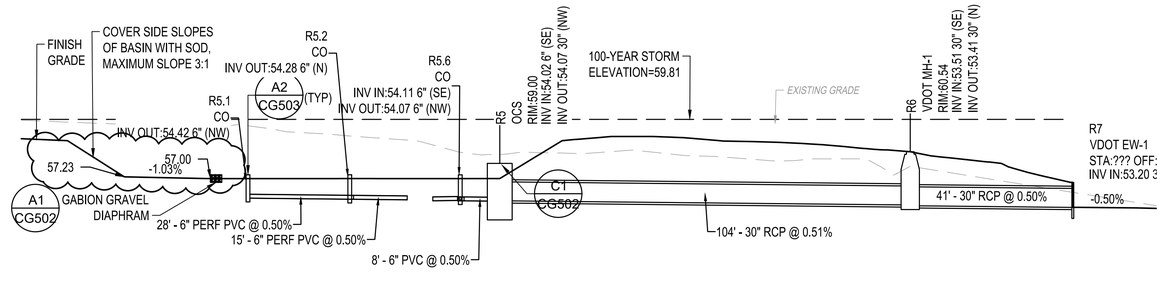
A1 DRY DETENTION BASIN WITH SAND FILTER #3M

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



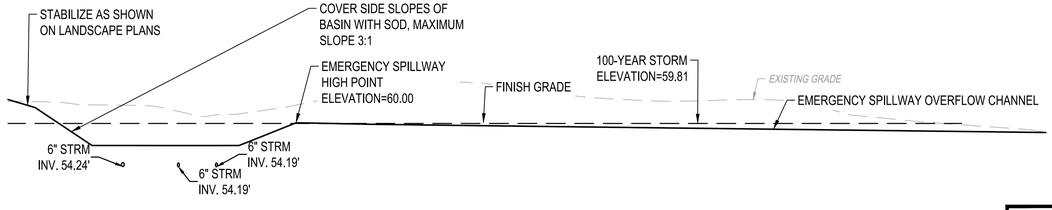
C2 DRY DETENTION BASIN WITH SAND FILTER #3M

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



B2 DRY DETENTION BASIN WITH SAND FILTER #3M

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



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

A2 DRY DETENTION BASIN WITH SAND FILTER #3M

SCALE: 1" = 20'

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

MARK	DESCRIPTION	DATE
A	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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

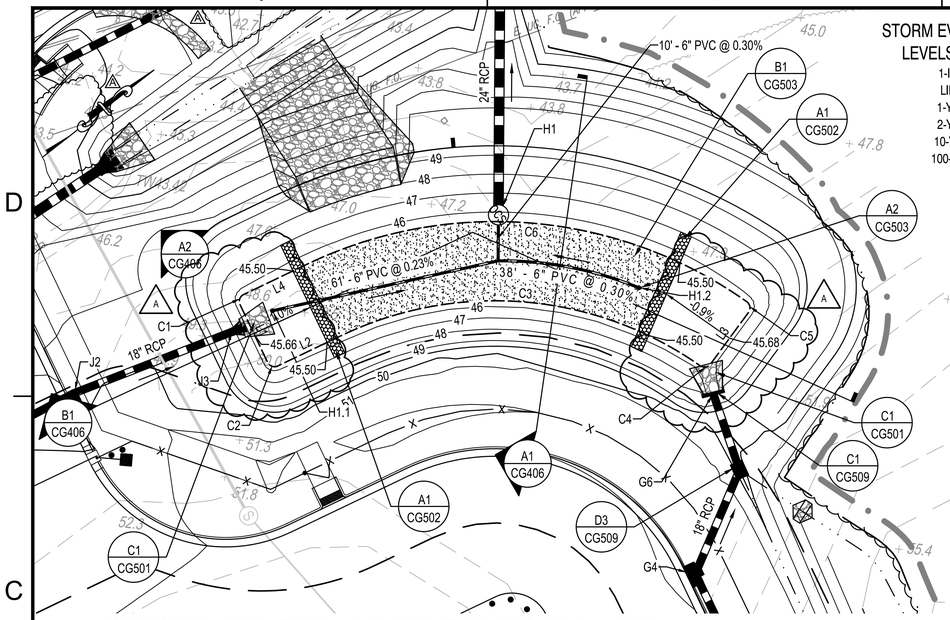
STORMWATER MANAGEMENT FACILITY - MAGAZINE SITE

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: Thursday, June 11, 2026 - 11:00am USER: sarah.m.turner



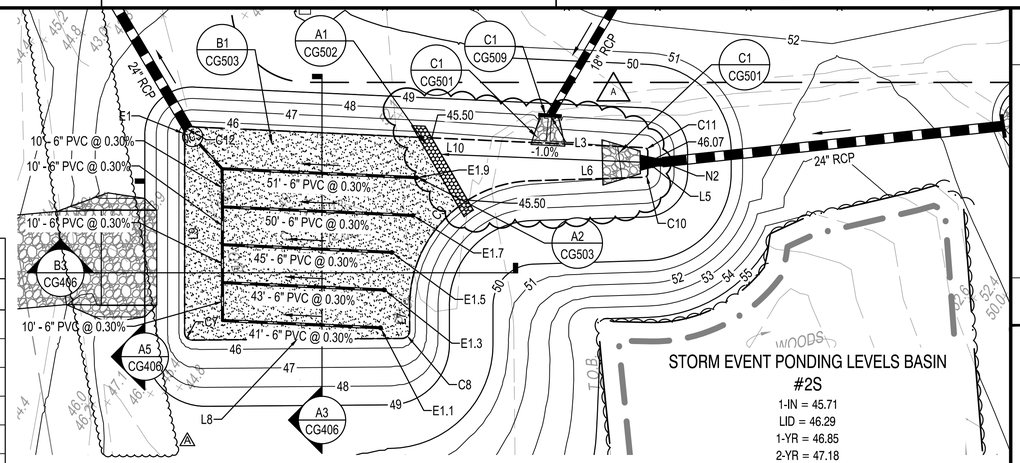
C1 DRY DETENTION BASIN WITH SAND FILTER, BASIN #1S

SCALE: 1" = 20'

STORM EVENT PONDING LEVELS BASIN #1S

1-IN = 46.04
LID = 46.60
1-YR = 47.14
2-YR = 47.59
10-YR = 47.79
100-YR = 47.97

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



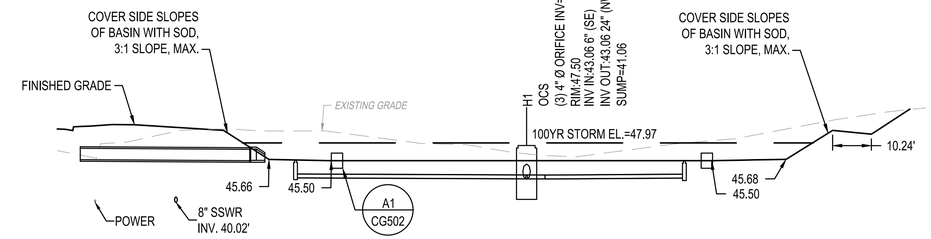
C3 DRY DETENTION BASIN WITH SAND FILTER, BASIN #2S

SCALE: 1" = 20'

STORM EVENT PONDING LEVELS BASIN #2S

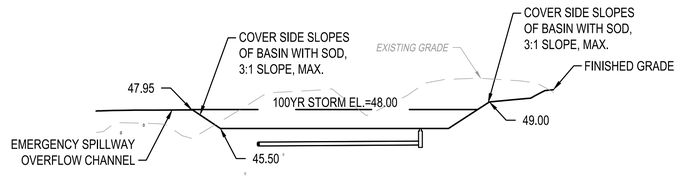
1-IN = 45.71
LID = 46.29
1-YR = 46.85
2-YR = 47.18
10-YR = 47.70
100-YR = 48.00

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



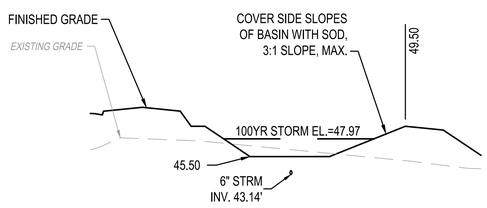
B1 BASIN #1S, SECTION B1

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



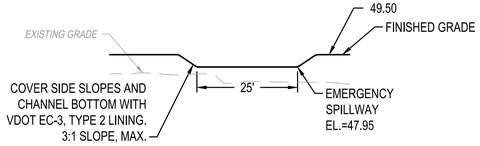
B3 BASIN #2S, SECTION B3

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



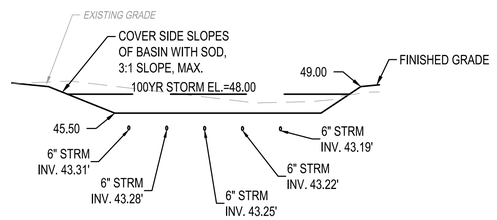
A1 BASIN #1S, SECTION A1

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



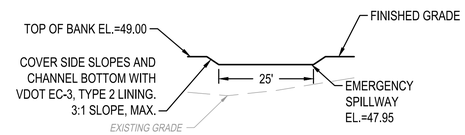
A2 BASIN #1S, SECTION A2

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
A	REVISED DRAINAGE	6/12/26

NAVFAC

A/E INFO

APPROVED
Kevin Andrew Kuhn
FOR COMMANDER NAVFAC 6/16/2026

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/OM	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

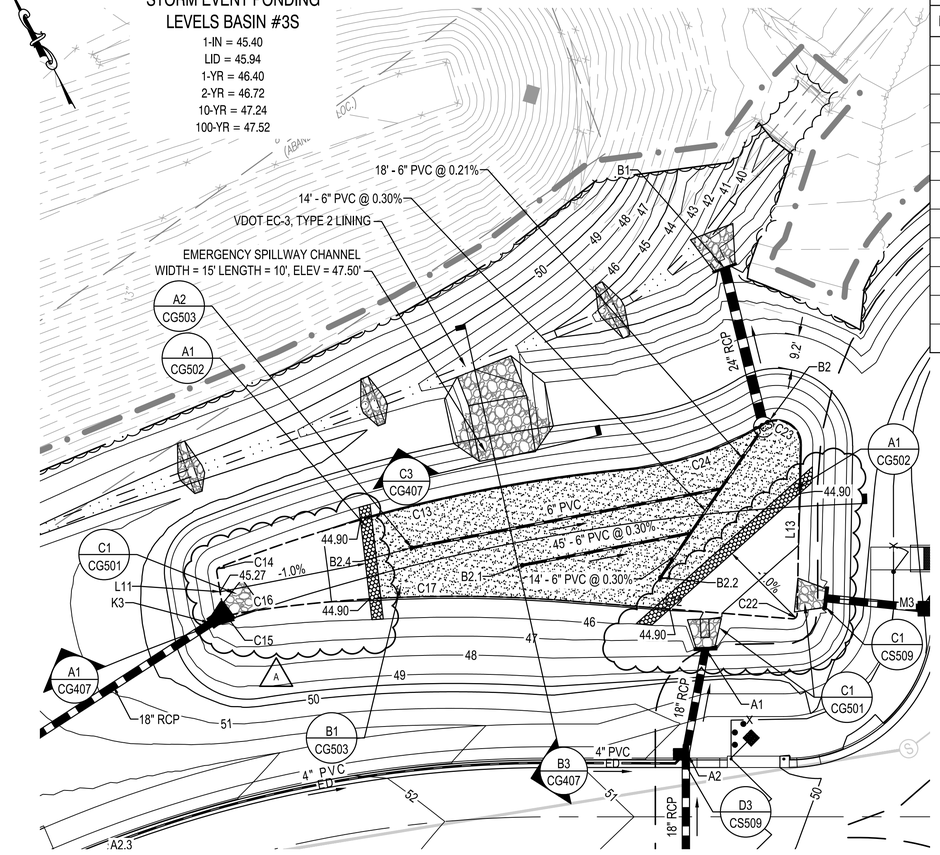
SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941878
SHEET 226 OF 499

CG406

DRAWFORM REVISION: 14 SEP 2023

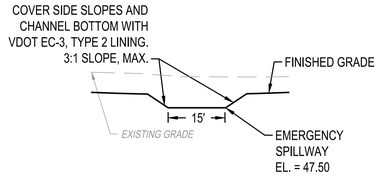
FILE NAME: K:\AVYorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINE\Sheets\05_CIVP171-1737010-BLDG-CG407.dwg LAYOUT NAME: CG406 PLOTTED: Thursday, June 11, 2026 - 11:01am USER: sarah.m.turner

STORM EVENT PONDING LEVELS BASIN #3S
1-IN = 45.40
LID = 45.94
1-YR = 46.40
2-YR = 46.72
10-YR = 47.24
100-YR = 47.52

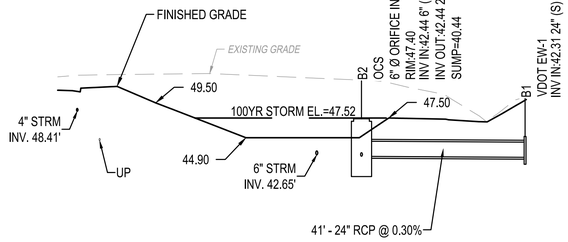


B1 DRY DETENTION BASIN WITH SAND FILTER, BASIN #3S
SCALE: 1" = 20'

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



C3 BASIN #3S, SECTION C3
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL



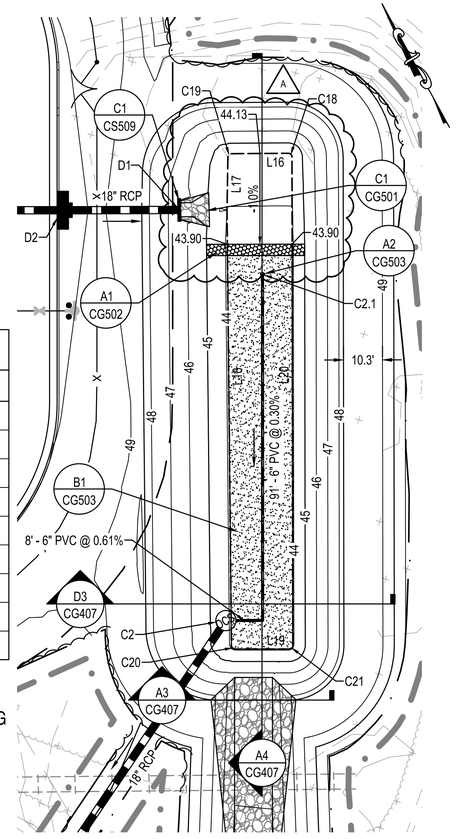
B3 BASIN #3S, SECTION B3
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

A1 BASIN #3S, SECTION A1
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

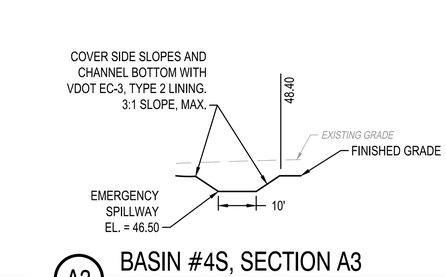
D3 BASIN #4S, SECTION D3
SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

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

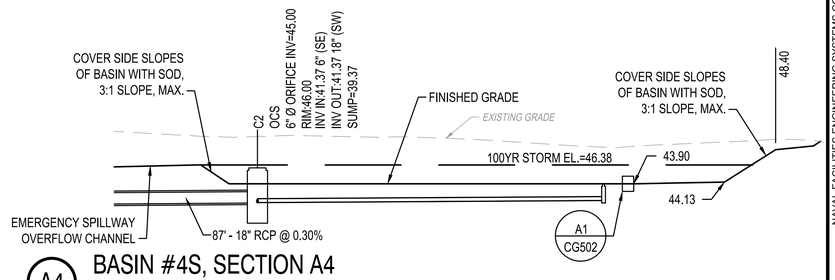
STORM EVENT PONDING LEVELS BASIN #4S
1-IN = 44.51
LID = 45.01
1-YR = 45.31
2-YR = 45.53
10-YR = 46.13
100-YR = 46.34



B5 DRY DETENTION BASIN WITH SAND FILTER, BASIN #4S
SCALE: 1" = 20'



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
	REVISED DRAINAGE	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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				

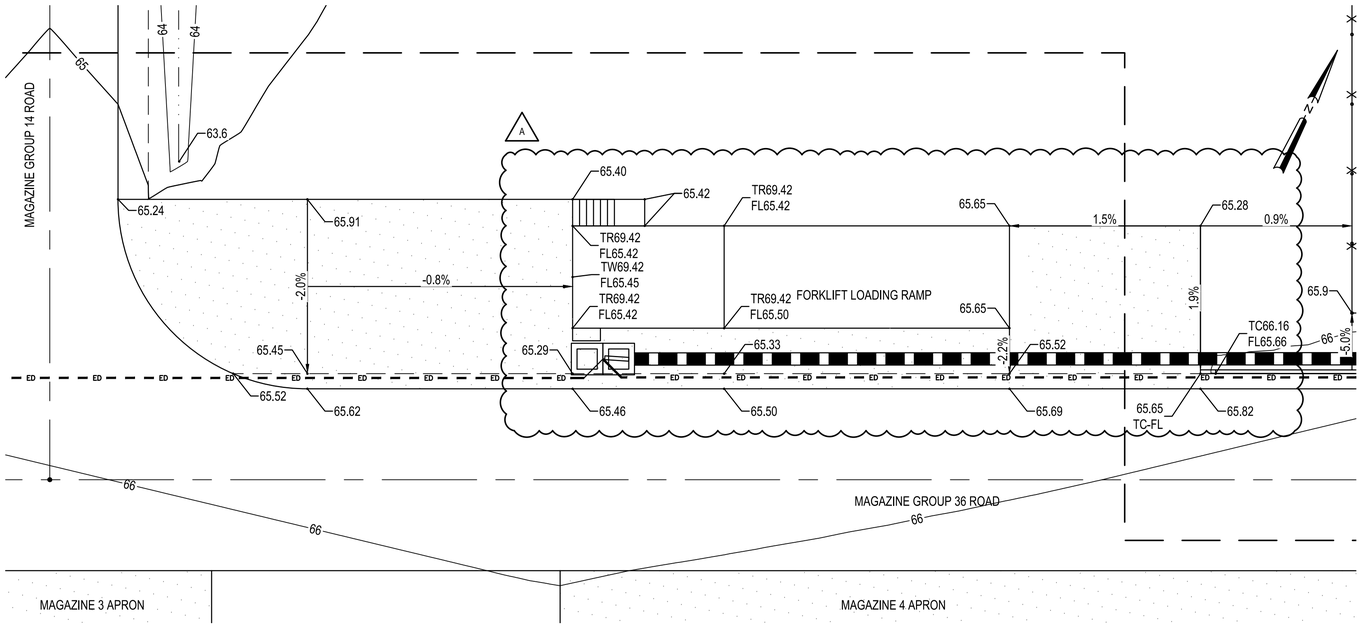
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION NORFOLK, VIRGINIA
NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA
P-171 WEAPONS MAGAZINES
STORMWATER MANAGEMENT FACILITY - SEGREGATION
FACILITIES

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

CG407

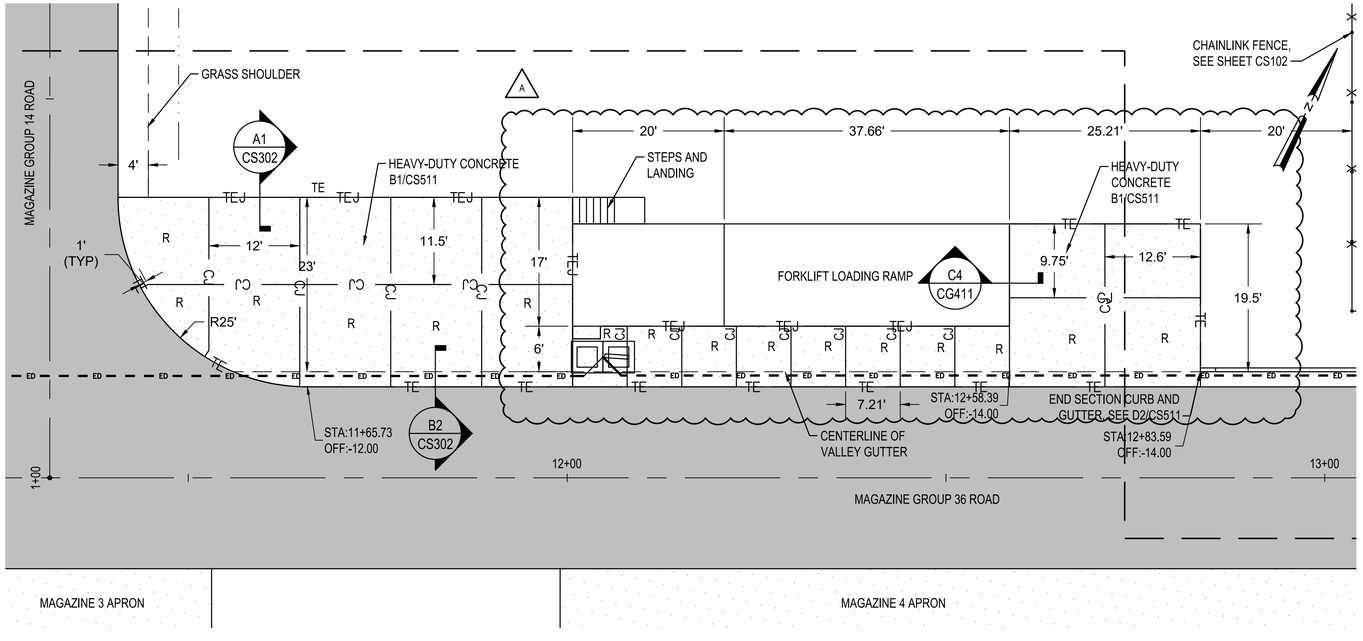
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINES\Sheet\05_CIVP171-1737010-BLDG-CG407.dwg LAYOUT NAME: CG407 PLOTTED: Thursday, June 11, 2026 - 11:02am USER: sarah.m.turner



C1 ENLARGED FORKLIFT LOADING RAMP GRADING PLAN

SCALE: 1" = 10'

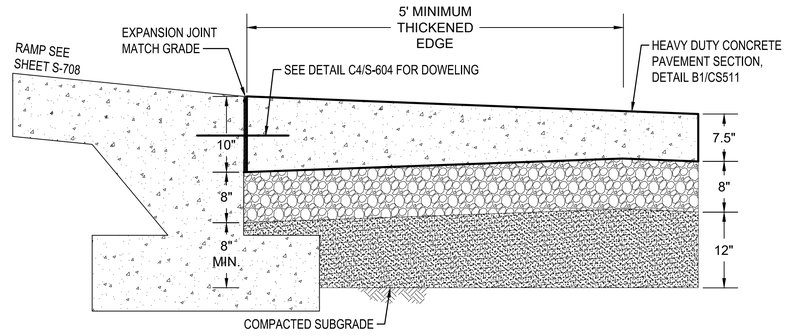


A1 ENLARGED FORKLIFT LOADING RAMP SITE PLAN

SCALE: 1" = 10'

C4 TYPICAL SECTION AT APRON/RAMP INTERFACE

NTS



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.

D. TOP OF RAMP (TR) A

GRAPHIC SCALE

1"=10' 0' 10' 20'

MARK	DESCRIPTION	DATE
A	REVISED GRADING	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
James E. Donahue, R.A.
FOR COMMANDER NAVFAC 6/16/2026

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 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:\IA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIVIP171-1737010-MAGZ-CG411.dwg PLOTTED: Thursday, June 11, 2026 9:49:30 AM USER: sarah.mturner

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 A	VDOT MH-1	65.40	INV OUT = 58.43 (15")(NE) INV IN = 58.50 (15")(SW)	N: 3619596.35 E: 12038812.86
P3	VDOT EW-1	60.25	INV IN = 58.23 (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 A	VDOT DI-3B L=14'	66.66	INV IN = 58.76 (15")(NE) INV IN = 58.76 (15")(SW) INV OUT = 58.35 (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 A	VDOT EW-1	60.50	INV IN = 58.18 (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 = 57.28 (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 = 57.17 (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 A	VDOT EW-1	60.00	INV IN = 57.66 (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	55.30	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 A	VDOT MH-1	65.06	INV IN = 57.85 (24")(SE) INV OUT = 57.85 (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 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%
A 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%
A 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'	0.48%
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"	27'	1.50%
T16 TO T2	15"	115'	0.50%
A T17 TO T6	24"	36'	0.50%
T18 TO 14	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	REVISED DRAWAGE DESCRIPTION	DATE
A		6/1/26

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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:\AV\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheets\05_CIV\P171-1737010-MAG2-CG601.dwg PLOTTED: Thursday, June 11, 2026 11:02:34 AM USER: sarah.m.turner

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 STRUCTURE TABLE

STR. NO	STTRUCTURE	RIM	INVERT	COORDINATES
A1 (A)	VDOT EW-1	47.70	INV IN = 45.01 (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 (A)	VDOT EW-1	46.55	INV IN = 44.05 (18")(NW)	N: 3617559.98 E: 12046904.62
D2	VDOT DI-3C, L=10'	48.69	INV IN = 44.14 (18")(NW) INV OUT = 44.14 (18")(SE)	N: 3617574.37 E: 12046878.03
D3	VDOT DI-7	49.43	INV OUT = 44.33 (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 (A)	VDOT DI-3C, L=6'	51.35	INV OUT = 45.87 (18")(NW) INV IN = 45.87 (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 = 45.78 (18")(SE) INV OUT = 45.78 (18")(W)	N: 3618317.25 E: 12046172.48
G6	VDOT EW-1	48.22	INV IN = 45.72 (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	45.60	INV OUT = 43.24 (6")(NE)	N: 3618246.04 E: 12046063.42
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	48.35	INV IN = 45.85 (18")(NE)	N: 3618074.64 E: 12046106.64
M1	VDOT DI-3C, L=10'	49.36	INV OUT = 45.54 (18")(SW)	N: 3617746.53 E: 12046747.52
M2	VDOT DI-3A	49.97	INV OUT = 45.22 (18")(NW) INV IN = 45.22 (18")(NE)	N: 3617696.74 E: 12046652.03
M3	VDOT EW-1	47.67	INV IN = 45.14 (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

STRM-SEG PIPE TABLE

PIPE	SIZE	LENGTH	SLOPE
TO	30"	17'	2.02%
TO	24"	34'	1.00%
A2 TO A1 (A)	18"	28'	1.14%
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 (A)	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% (A)
G3 TO G4	18"	141'	0.40%
G4 TO G5	18"	30'	0.30%
G5 TO G6	18"	21'	0.30%
H1 TO H2	24"	70'	0.97%
H1.1 TO H1.3	6"	61'	0.23%
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'	0.36% (A)
M1 TO M2	18"	108'	0.30%
M2 TO M3	18"	26'	0.30%
N1 TO N2	24"	90'	3.87%

MARK	DESCRIPTION	DATE
A	REVISED DRAINAGE	6/12/26

SEAL

A/E INFO

APPROVED
James E. Donahue, R.A.
FOR COMMANDER NAVFAC 6/16/2026

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
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLANT PDC CORE
NAVAL STATION NORFOLK, VIRGINIA

NAVAL WEAPONS STATION
YORKTOWN, VIRGINIA

P-171 WEAPONS MAGAZINES

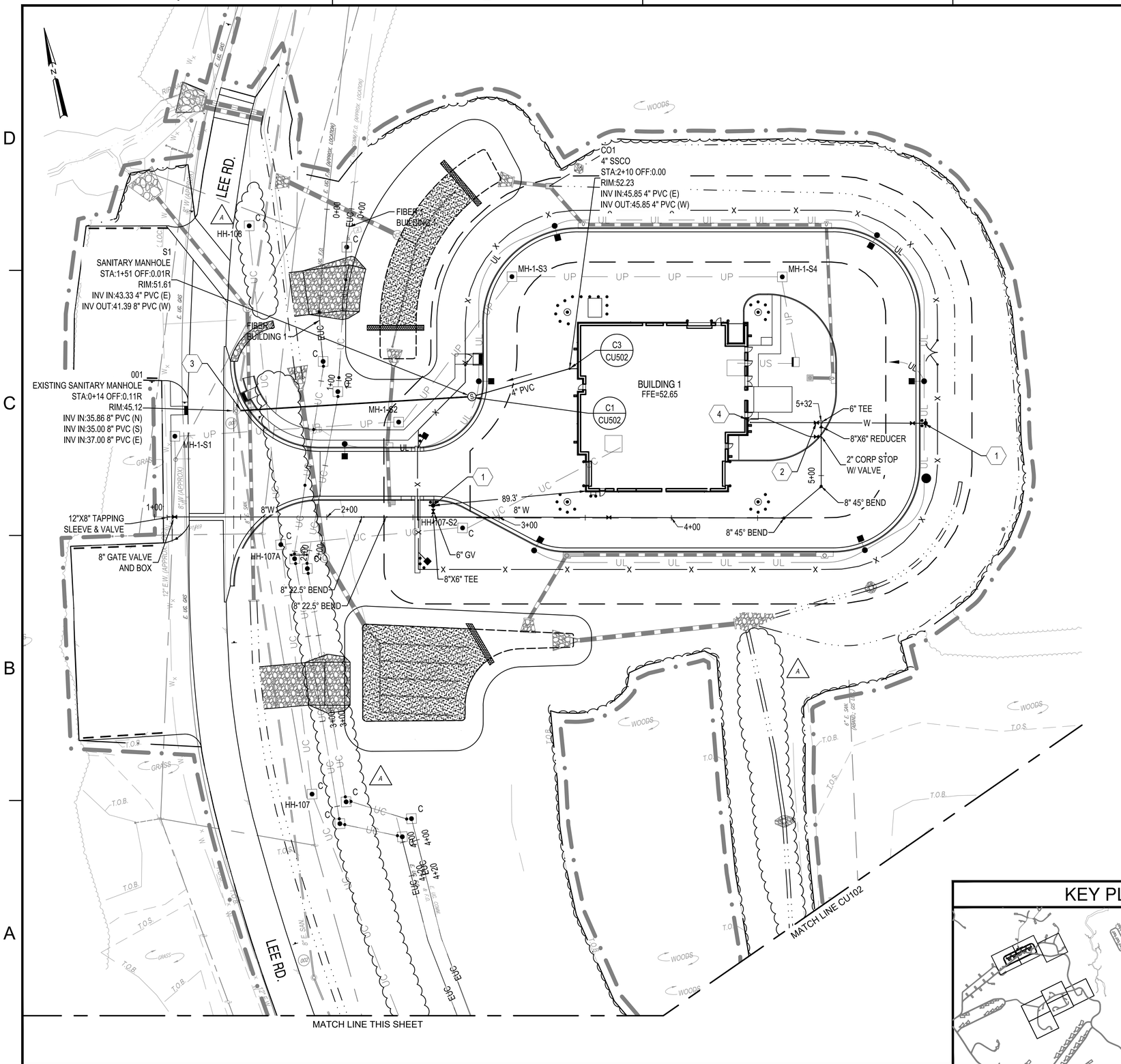
STORM STRUCTURE SCHEDULE - SEGREGATION SITE

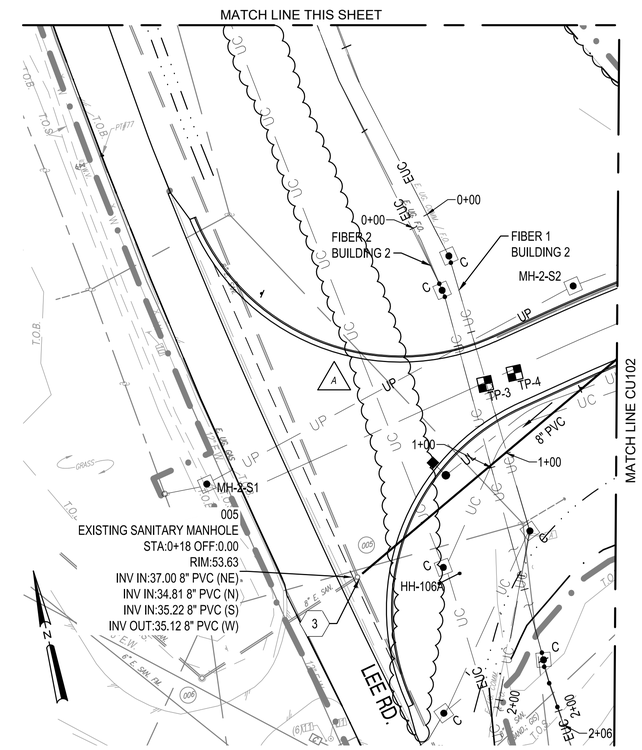
SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO. ##
NAVFAC DRAWING NO. 12941889
SHEET 237 OF 499

CG602

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-BLDG-CG602.dwg PLOTTED: Thursday, June 11, 2026 11:03:12 AM USER: sarah.m.turner

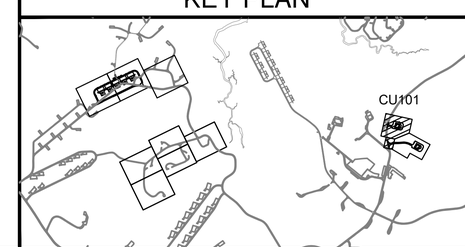




GENERAL SHEET NOTES

A. SEE PLUMBING PLANS FOR CONTINUATION OF DOMESTIC WATER AND SANITARY SEWER IN THE BUILDING.
B. SEE FIRE PROTECTION PLANS FOR CONTINUATION OF FIRE SERVICE IN THE BUILDING.
C. SEE CG103 AND CG104 FOR INFORMATION ON STORM NETWORK.
D. SEE SHEET CU201 FOR SANITARY SEWER PROFILES.
E. SEE SHEET CU202 FOR WATER LINE PROFILES.
F. SEE SHEET CU203 FOR UTILITY ADJUSTMENT PROFILES.
G. ELECTRICAL AND TELECOM SHOWN FOR INFORMATION ONLY. SEE ELECTRICAL SITE PLANS FOR DETAILS AND NOTES.
H. SEE SHEET CU501 AND CU503 FOR RESTRAINING ROD AND THRUST BLOCK DETAILS.

KEY PLAN



SHEET KEYNOTES

1. FIRE HYDRANT ASSEMBLY, DETAIL A1/CU501
2. POST INDICATOR VALVE, MINIMUM 40' FROM BUILDING, DETAIL A4/CU501
3. CONNECT TO EXISTING SANITARY MANHOLE, ADJUST RIM, DETAIL A2/CU502
4. SIAMESE FIRE DEPARTMENT CONNECTION, SEE SHEET FX101A

GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED
Name & Signature
FOR COMMANDER NAVFAC 6/16/2026

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
UTILITY PLAN - SEGREGATION FACILITIES

SCALE:	1" = 30'
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941890
SHEET	238 OF 499

CU101

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\IVA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-BLDG-CU101.dwg PLOTTED: Thursday, June 11, 2026 11:04:16 AM USER: sarah.m.turner

SHEET KEYNOTES

1. FIRE HYDRANT ASSEMBLY, DETAIL A1/CU501
2. POST INDICATOR VALVE, MINIMUM 40' FROM BUILDING, DETAIL A4/CU501
3. SIAMESE FIRE DEPARTMENT CONNECTION, SEE SHEET FX101A

MATCH LINE CU101

CO2
4" SSCO
STA:7+66 OFF:0.00
RIM:50.09
INV IN:43.70 4" PVC (SE)
INV OUT:43.70 4" PVC (W)

CONC. HEADWALL (51988)
INV. 33" (NE) = 37.50, CONC.
CONC. HEADWALL (51984)
INV. 33" (SW) = 37.84, CONC.

S2
SANITARY MANHOLE
STA:6+95 OFF:0.00
RIM:49.77
INV IN:42.96 4" PVC (E)
INV OUT:42.88 8" PVC (W)

S3
SANITARY MANHOLE
STA:4+84 OFF:-0.40L
RIM:53.04
INV IN:41.82 8" PVC (E)
INV OUT:41.72 8" PVC (W)

MH-2-S5
MH-2-S6
MH-2-S4
MH-2-S3
HH-106-S4
HH-106-S3
HH-106-S2

(TYP) C1 CU502
C3 CU502

BUILDING 2
FFE=50.50

4" PVC
8" PVC
6" GV
8" W
82.4'
5+00
6+00
6+74
6" TEE
6" W
8"X6" REDUCER
2" CORP STOP W/ VALVE
8" W
8" 45° BEND
8" 45° BEND
3+00
2+00
8" 22.5° BEND
8" 22.5° BEND
4+00
TP-1
TP-2
8" W
8" 22.5° BEND
8" 45° BEND
8" GATE VALVE AND BOX
8"X8" TAPPING SLEEVE

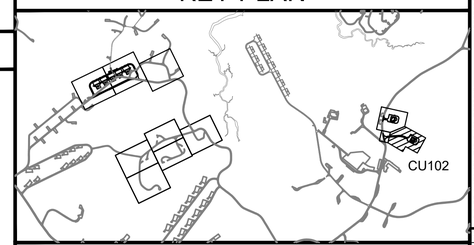
S4
SANITARY MANHOLE
STA:1+90 OFF:0.00
RIM:53.97
INV IN:40.25 8" PVC (E)
INV OUT:40.14 8" PVC (SW)

WETLAND LOCATION AS TAKEN FROM GIS PROVIDED BY NAVFAC

GENERAL SHEET NOTES

A. SEE PLUMBING PLANS FOR CONTINUATION OF DOMESTIC WATER AND SANITARY SEWER IN THE BUILDING.
B. SEE FIRE PROTECTION PLANS FOR CONTINUATION OF FIRE SERVICE IN THE BUILDING.
C. SEE CG103 AND CG104 FOR INFORMATION ON STORM NETWORK.
D. SEE SHEET CU201 FOR SANITARY SEWER PROFILES.
E. SEE SHEET CU202 FOR WATER LINE PROFILES.
F. ELECTRICAL AND TELECOM SHOWN FOR INFORMATION ONLY. SEE ELECTRICAL SITE PLANS FOR DETAILS AND NOTES.
G. SEE SHEET CU501 AND CU503 FOR RESTRAINING ROD AND THRUST BLOCK DETAILS.

KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

UTILITY PLAN - SEGREGATION FACILITIES

SCALE:	1" = 30'
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941891
SHEET	239 OF 499

CU102

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\AV\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIV_P171-1737010-BLDG-CU101.dwg PLOTTED: Thursday, June 11, 2026 11:04:29 AM USER: sarah.turner

SHEET KEYNOTES

1. BUILDING 1 CENTERLINE
2. BUILDING 2 CENTERLINE
3. MODIFY/REPAIR SILT FENCE AND TREE PROTECTION AS NECESSARY FROM E&S STAGE 1
4. OUTLET PROTECTION FOR STRUCTURE (REFER TO DETAIL C1 ON SHEET CG501)
5. PERMANENT SEEDING (VADEQ C-SSM-10). REFER TO LANDSCAPE SHEETS FOR PERMANENT VEGETATIVE STABILIZATION NOTES AND DETAILS.
6. MODIFY/REPAIR CONCRETE WASH PIT AS NECESSARY FROM E&S STAGE 1

BUILDING 1
FFE=52.65

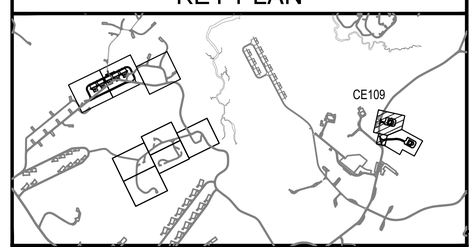
LEE RD.

MATCH LINE THIS SHEET

MATCH LINE SEE SHEET CE110

MATCH LINE SHEET CE110

KEY PLAN



GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026

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

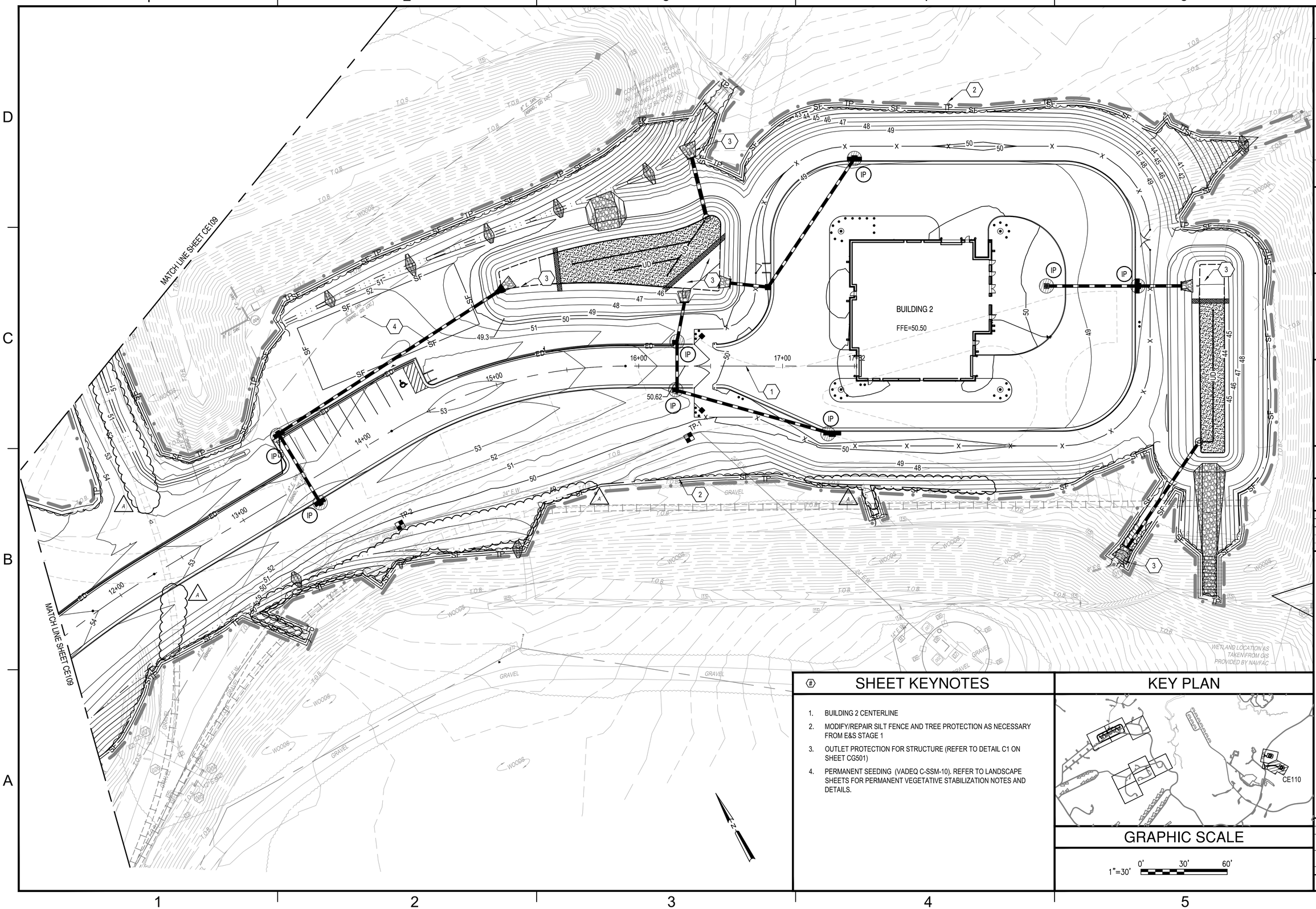
EROSION & SEDIMENT CONTROL PLAN-STAGE 2 - SEG FACILITIES

SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941910
SHEET	258 OF 499

CE109

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\WLCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINE\Sheet\05_CIV\P171-1737010-BLDG-CE109.dwg LAYOUT NAME: CE109 PLOTTED: Thursday, June 11, 2026 - 11:05am USER: sarah.m.turner



SHEET KEYNOTES

1. BUILDING 2 CENTERLINE
2. MODIFY/REPAIR SILT FENCE AND TREE PROTECTION AS NECESSARY FROM E&S STAGE 1
3. OUTLET PROTECTION FOR STRUCTURE (REFER TO DETAIL C1 ON SHEET CG501)
4. PERMANENT SEEDING (VADEQ C-SSM-10). REFER TO LANDSCAPE SHEETS FOR PERMANENT VEGETATIVE STABILIZATION NOTES AND DETAILS.

KEY PLAN

GRAPHIC SCALE

1"=30' 0' 30' 60'

MARK	DESCRIPTION	DATE
A	REMOVED ERRONEOUS HATCH	6/12/26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

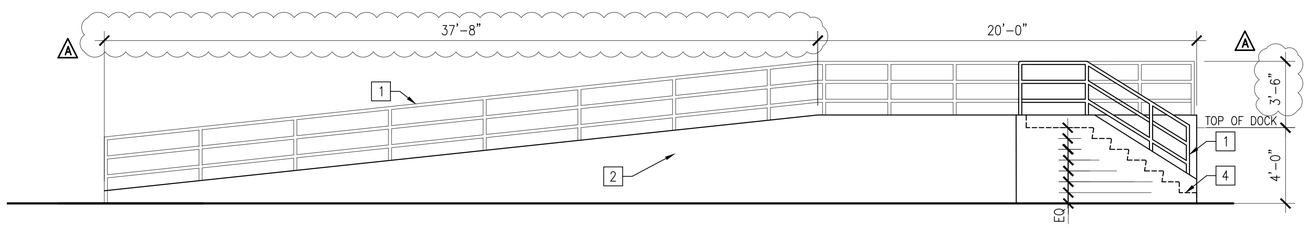
EROSION & SEDIMENT CONTROL PLAN-STAGE 2 - SEG FACILITIES

SCALE:	AS SHOWN
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	##
NAVFAC DRAWING NO.	12941911
SHEET	259 OF 499

CE110

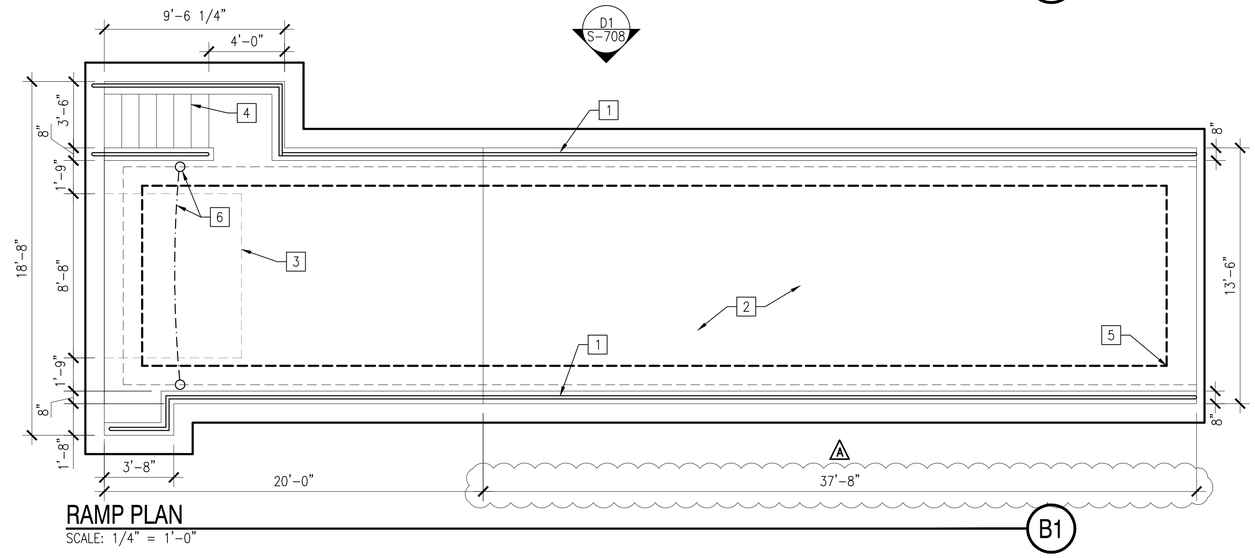
DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\B_Design\DWGS - MAGAZINES\Sheet\05_CIVIL\P171-1737010-BLDG-CE109.dwg LAYOUT NAME: CE110 PLOTTED: Thursday, June 11, 2026 - 11:05am USER: sarah.m.turner



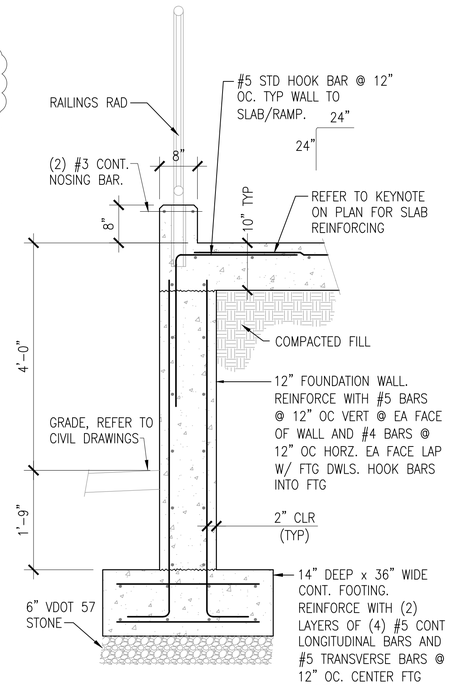
RAMP ELEVATION

SCALE: 1/4" = 1'-0" — D1



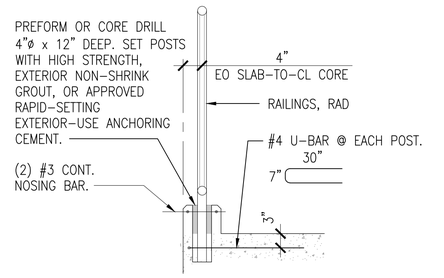
RAMP PLAN

SCALE: 1/4" = 1'-0" — B1



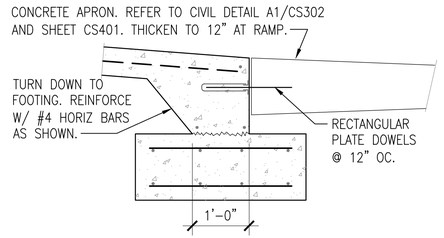
EDGE OF RAMP DETAIL

SCALE: 3/4" = 1'-0" — S-708 — C3



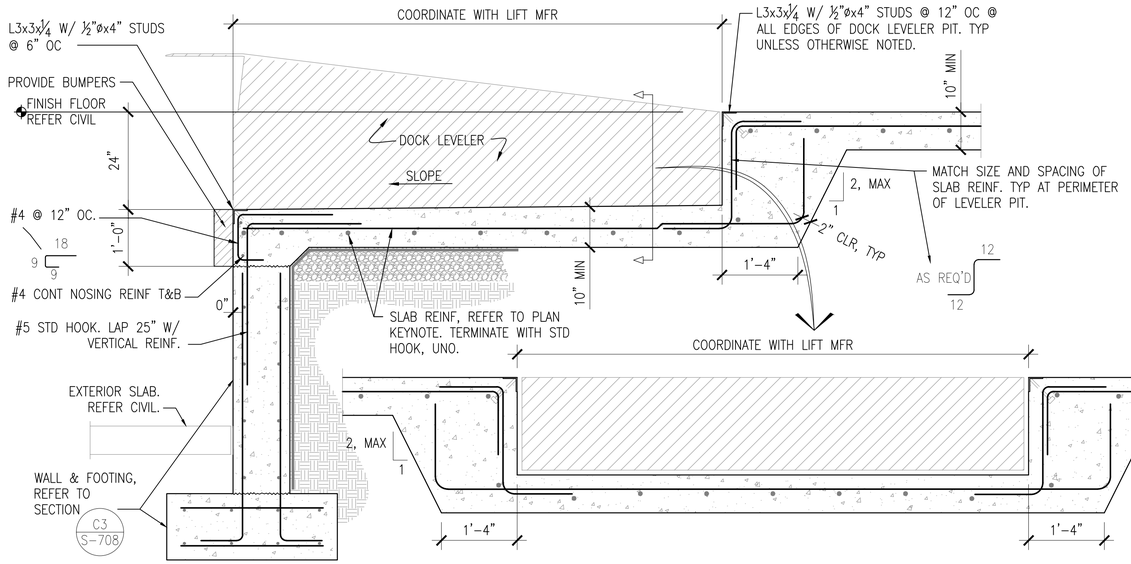
TYP DTL AT RAILING

SCALE: 3/4" = 1'-0" — S-708 — D4



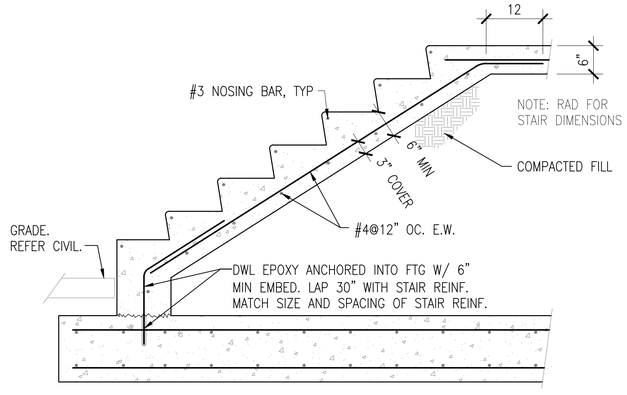
DETAIL AT RAMP BOTTOM

SCALE: 3/4" = 1'-0" — S-708 — C4

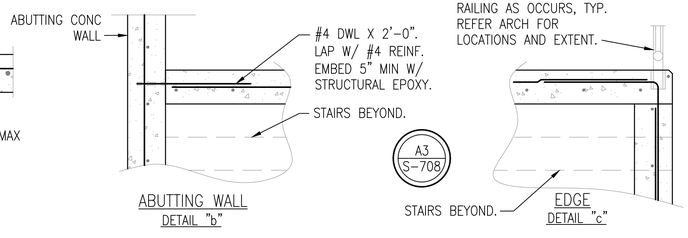


FDN AND SLAB AT DOCK LEVELER

SCALE: 3/4" = 1'-0" — S-708 — A1



DETAIL "a"



ABUTTING WALL DETAIL "b"

EDGE DETAIL "c"

SECTION THROUGH EXTERIOR STAIR

SCALE: 3/4" = 1'-0" — S-708 — A3

KEYNOTES

1. SAFETY RAILING.
2. CONCRETE RAMP WITH 1:10 SLOPE. REINFORCE SLAB AND RAMP WITH #5 BARS @ 12: OC EA WAY, CENTERED IN SLAB. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION AND ELEVATION.
3. DOCK LEVELER WITH BUMPERS. REINFORCED WITH #5 BARS @ 12: OC EA WAY, CENTERED IN SLAB.
4. STAIRS WITH SAFETY NOSING. THE STAIR SHOWN HAS 6 RISERS EQUALLY SPACED AND 6 TREADS.
5. FOOTING, REFER TO C3/S-708 FOR SIZE AND REINFORCING.
6. DOCK CHAIN BOLLARD BARRIER SYSTEM, TWO 5-1/2" DIA X 42" HIGH STEEL BOLLARDS, PAINTED YELLOW, FLUSH MOUNTED ON CONCRETE WITH A 10' LONG BARRIER CHAIN. SECURE BOLLARDS WITH (4) 1/2" DIA. X 4" LONG EXPANSION BOLTS.

GRAPHIC SCALE

1/4"=1'-0" 0' 2' 4' 8'

3/4"=1'-0" 0 1' 2' 3'

MARK	DESCRIPTION	DATE
	FORKLIFT RAMP & RAILINGS	06-12-26

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 6/16/2026

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

SATISFACTORY TO DATE 03/26/2026

DES	VAA	DRW	MTW	CHK	CWJ

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

FORKLIFT RAMP, ELEVATION, AND DETAILS

SCALE: AS SHOWN
EPROJECT NO.: 1737010
CONSTR. CONTR. NO.: ##
NAVFAC DRAWING NO.: 12942015
SHEET 357 OF 499

S-708

DRAWFORM REVISION: 14 SEP 2023

FILE NAME: K:\VA\Yorktown\MILCON\2024_1737010_P171_Weapons_Magazines\8_Design\DWGS - MAGAZINES\Sheet\07_STRUCT\S-708 FORKLIFT RAMP, ELEVATION, AND DETAILS.dwg LAYOUT NAME: FORKLIFT RAMP ELEVATION AND DETAILS PLOTTED: Thursday, June 11, 2026 - 10:00am USER: miguel.walker

FIRE SUPPRESSION LEGEND

- FIRE DEPARTMENT CONNECTION - SIAMESE
- TEST HEADER
- LH — LIGHT HAZARD GROUP
- OH — ORDINARY HAZARD GROUP
- EH — EXTRA HAZARD GROUP
- TS — TAMPER SWITCH
- FS — WATER FLOW SWITCH

PIPING LEGEND

- OUTSIDE SCREW AND YOKE VALVE (OS&Y)
- RPZ — BACKFLOW PREVENTER - REDUCED PRESSURE ZONE

FX ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AS	AUTOMATIC SPRINKLER
CA	CLEAN AGENT
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FM	FIRE MAIN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
RN	RISER NIPPLE
(S)	ELECTRICALLY SUPERVISED
SPR	SPRINKLER PIPE
SF	SQUARE FOOT
TYP	TYPICAL

FIRE SUPPRESSION DESIGN CRITERIA

1. THE FIRE SUPPRESSION SYSTEM MUST BE SERVED FROM THE EXISTING FACILITY WATER DISTRIBUTION SYSTEM. CONTRACTOR MUST PERFORM A HYDRANT FLOW TEST, AND INCORPORATE THIS TEST INTO THE HYDRAULIC CALCULATIONS. HYDRANT FLOW TESTING MUST BE IN ACCORDANCE WITH NFPA 291, AND THE RESULTS OF THE TESTING MUST BE SUBMITTED AS INDICATED IN NFPA 291 FIGURE 4.11.2.5.
2. FIRE SUPPRESSION SYSTEM CALCULATIONS MUST BE BASED ON A SINGLE CONNECTION TO THE BASE DOMESTIC WATER SYSTEM.
3. HYDRAULIC CALCULATIONS MUST INCLUDE A MINIMUM 12PSI FRICTION LOSS FOR BACKFLOW ASSEMBLY OR THE ACTUAL PSI LOSS THROUGH THE DEVICE WHICHEVER IS GREATER.
4. THE FIRE SUPPRESSION SYSTEM MUST BE DESIGNED AND INSTALLED BY A LICENSED / CERTIFIED COMPANY WHERE EMPLOYEES ARE LICENSED / CERTIFIED TO INSTALL FIRE PROTECTION EQUIPMENT.
5. ALL COMPONENTS AND ASSEMBLIES USED IN THIS FIRE PROTECTION SYSTEM MUST BE SPECIFICALLY UL LISTED OR FM APPROVED FOR THEIR INTENDED USE.
6. PIPING MATERIAL PRIOR TO THE BACKFLOW PREVENTER MUST BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE & LOCAL JURISDICTION.
7. PROVIDE SEISMIC RESTRAINTS FOR ALL SPRINKLER PIPING COMPONENTS IN ACCORDANCE WITH NFPA 13 CRITERIA.
8. FOR INFORMATION ONLY: FLOW TEST FOR BOTH SEG BLDG SITES

DATE	4/30/2026
LOCATION	FH 2189
STATIC	65 PSI
FLOWRESIDUAL	58 PSI
LOCATION :	FH 2187
FLOWING:	1007 GPM

A

FIRE SUPPRESSION GENERAL NOTES

A. PROVIDE ALL NECESSARY COMPONENTS FOR A WET-PIPE SYSTEM IN ALL AREAS INDICATED. AT A MINIMUM PROVIDE COMPONENTS AS INDICATED ON THESE DRAWINGS. CONTRACTOR MUST PROVIDE ADDITIONAL COMPONENTS AND MODIFICATIONS AS REQUIRED TO PROVIDE A FULLY FUNCTIONING FIRE SUPPRESSION SYSTEM.

B. ALL SYSTEMS WHICH REQUIRE COORDINATION BETWEEN TRADES MUST BE TO THE SATISFACTION OF THE ENGINEER AND AUTHORITY HAVING JURISDICTION. ANY DEFICIENCIES, INCONSISTENCIES, OR POORLY COORDINATED INSTALLATIONS MUST BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

C. FINAL DESIGN REQUIREMENTS (DEVICE QUANTITY, SIZE, AND LOCATIONS) ARE THE SOLE RESPONSIBILITY OF THE FIRE SUPRESSION CONTRACTOR. DRAWINGS INDICATE MINIMUM REQUIREMENTS; THE FIRE SUPPRESSION CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING AND COORDINATING FINAL DESIGN REQUIREMENTS WITH THESE CONSTRUCTION DOCUMENTS, SPECIFICATIONS, REFERENCE DOCUMENTS, APPLICABLE CODES, AND FACILITY USER REQUIREMENTS.

D. ALL DRAIN PENETRATIONS THROUGH EXTERIOR WALL MUST BE NO GREATER THAN 2'-0" ABOVE FINISHED GRADE AND PROVIDED WITH SPLASH BLOCK.

WATER FLOW TEST MAP

12/23/2020, 6:58:47 AM

Water Hydrant

Water Line

- Main, Non-Coded
- Main, Abandoned
- Main, In Service

P171 - Fire Flow Test - January 14, 2021

FH2189 - Gage - Static 59 psi - Residual 55 psi

FH2187 - Flow 1920 gpm

Test By : A. Chacinski - Jensen Hughes
Witnessed by : K Kimmel - NAVFAC MIDLANT Ctr

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

MARK	HAZARD CLASSIFICATION	SYSTEM TYPE	DENSITY GPM/SF	REMOTE AREA SQ FT	MAXIMUM AREA PER SPRINKLER SQ FT	HOSE DEMAND GPM	SPRINKLER CHARACTERISTICS				ADDITIONAL CODE REFERENCE	NOTES
							TEMP RATING	TYPE	K-FACTOR	FINISH		
	LIGHT HAZARD	WET	0.10	1500	225	250	ORDINARY	SEE NOTES	5.6 OR 8.0	SEE NOTES		1,2,3
	ORDINARY HAZARD	WET	0.20	2500	130	250	ORDINARY	SEE NOTES	8.0	SEE NOTES		1,2,3
	EXTRA HAZARD	WET	0.30	2500	100	500	200	STANDARD RESPONSE BRASS UPRIGHT	11.2	BRASS	NFPA 13, TABLE 13.2.1	

NOTE 1: PROVIDE 200ºF RATED SPRINKLERS IN MECHANICAL AND COMMUNICATION ROOMS, AND HIGHER TEMPERATURES WHERE REQUIRED BY NFPA 13.
NOTE 2: WHERE CEILINGS ARE NOT PROVIDED, USE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS.
NOTE 3: WHERE CEILINGS ARE PRESENT, USE WHITE QUICK-RESPONSE RECESSED SPRINKLERS.

SYM	DESCRIPTION	DATE	APPR
A	UPDATED DATA	6/12/26	

NAVFAC

SEAL

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 6/16/2026
ACTIVITY
Approver

SATISFACTORY TO DATE 03/26/2026

DES	KEK	DRW	DMH	CHK	SSR

PM/DM	MMP/SLC
BRANCH MANAGER	CGM
CHIEF ENG/ARCH	JWJ
FIRE PROTECTION	HPN

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

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NAVAL STATION - NORFOLK, VA

NAVAL WEAPONS STATION YORKTOWN, VIRGINIA
P171 WEAPON MAGAZINES
SEGREGATION FACILITIES

FIRE SUPPRESSION SYMBOLS, LEGEND, ABBREVIATIONS AND NOTES

SCALE:	AS NOTED
EPROJECT NO.:	1737010
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12942095
SHEET	423 OF 499

FX001A

DRAWFORM REVISION: 25 AUGUST 2020

6/11/2026 10:19:56 AM FX001A
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