SITE LAYOUT CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
PT1	230979.24	2084119.11
PT2	231256.36	2084365.79
PT3	231291.26	2084449.88
PT4	231190.69	2084562.85
PT5	230947.68	2084471.31
PT6	231163.55	2084663.46
PT7	231293.27	2084731.86
PT8	231312.68	2084715.67
PT9	231309.89	2084713.19
PT10	231279.05	2084642.89
PT11	231398.49	2084508.72
PT12	231354.38	2084558.28
PT13	231321.96	2084594.69
PT14	231308.61	2084609.69
PT15	231297.53	2084622.14
PT16	231250.54	2084652.32
PT17	230979.02	2084418.65
PT18	230952.13	2084394.72
PT19	230872.46	2084323.79
PT20	230931.03	2084409.40
PT21	230966.88	2084441.32
PT22	231214.63	2084661.86
PT23	231214.23	2084699.55
PT24	231207.40	2084705.37
PT25	231150.79	2084764.52
PT26	231120.71	2084823.49
PT27	231163.41	2084625.63
PT28	231160.75	2084628.62
PT29	231258.05	2084709.88
PT30	231255.39	2084712.87
PT31	231067.63	2084856.84
PT32	230892.58	2084757.36
PT33	230651.76	2084625.94
PT34	230723.01	2084643.08
PT35	230734.96	2084653.72
PT36	230825.42	2084528.03
PT37	230837.38	2084538.67
PT38	230859.40	2084489.87
PT39	230871.35	2084500.51
PT40	231112.41	2084816.38

SITE LAYOUT CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
PT41	231090.97	2084857.53
PT42	231078.72	2084850.56
PT43	231073.04	2084847.33
PT44	231067.17	2084815.28
PT45	231151.90	2084749.79
PT46	231147.77	2084746.96
PT47	231190.80	2084704.92
PT48	231187.06	2084701.59
PT49	231209.36	2084691.97
PT50	231212.68	2084688.24
PT51	230718.17	2084650.50
PT52	230715.79	2084654.90
PT53	230663.88	2084621.15
PT54	230661.50	2084625.55
PT55	230698.50	2084623.36
PT56	230742.53	2084544.61
PT57	230856.28	2084517.43
PT58	230795.97	2084600.22
PT59	230816.21	2084618.24
PT60	230741.84	2084661.03
PT61	230926.77	2084761.03
PT62	230950.80	2084734.03
PT63	230840.08	2084635.47
PT64	230845.54	2084484.38
PT65	230912.59	2084409.05
PT66	230723.26	2084527.95
PT67	230802.32	2084532.93
PT68	230714.08	2084632.06
PT69	230900.36	2084064.85
PT70	230813.57	2084203.41
PT71	230813.80	2084233.41
PT72	230948.28	2084383.25
PT73	230955.63	2084381.76
PT74	230991.23	2084421.49
PT75	230956.64	2084366.64
PT76	231006.50	2084404.33
PT77	230860.39	2084177.98
PT78	230847.75	2084192.17
PT79	230803.39	2084152.68
PT80	230803.55	2084174.47

SITE LAYOUT CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
PT81	231145.52	2084724.07
PT82	231164.80	2084702.41
PT83	231142.66	2084721.52
PT84	230797.45	2084625.64
PT85	230770.41	2084656.01
PT86	230828.11	2084648.92
PT87	230951.64	2084114.28
PT88	230925.38	2084735.51
PT89	230919.40	2084742.23
PT90	230853.05	2084355.38
PT91	230830.77	2084380.40
PT92	230921.56	2084472.82
PT93	230893.97	2084503.82
PT94	230848.09	2084555.36
PT95	230820.50	2084586.36
PT96	230822.02	2084612.48
PT97	231043.85	2084809.95
PT98	231069.97	2084808.44
PT99	231127.16	2084744.20
PT100	231163.35	2084700.13
PT101	231158.68	2084684.87
PT102	231157.22	2084682.60
PT103	231354.99	2084506.62
PT104	231254.43	2084619.59
PT105	230895.20	2084380.97
PT106	230835.92	2084447.56

1

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA REGISTERED No. 23067 01/13/23 ANNALEE BAMFORTH

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW CAD	CHK ALB
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

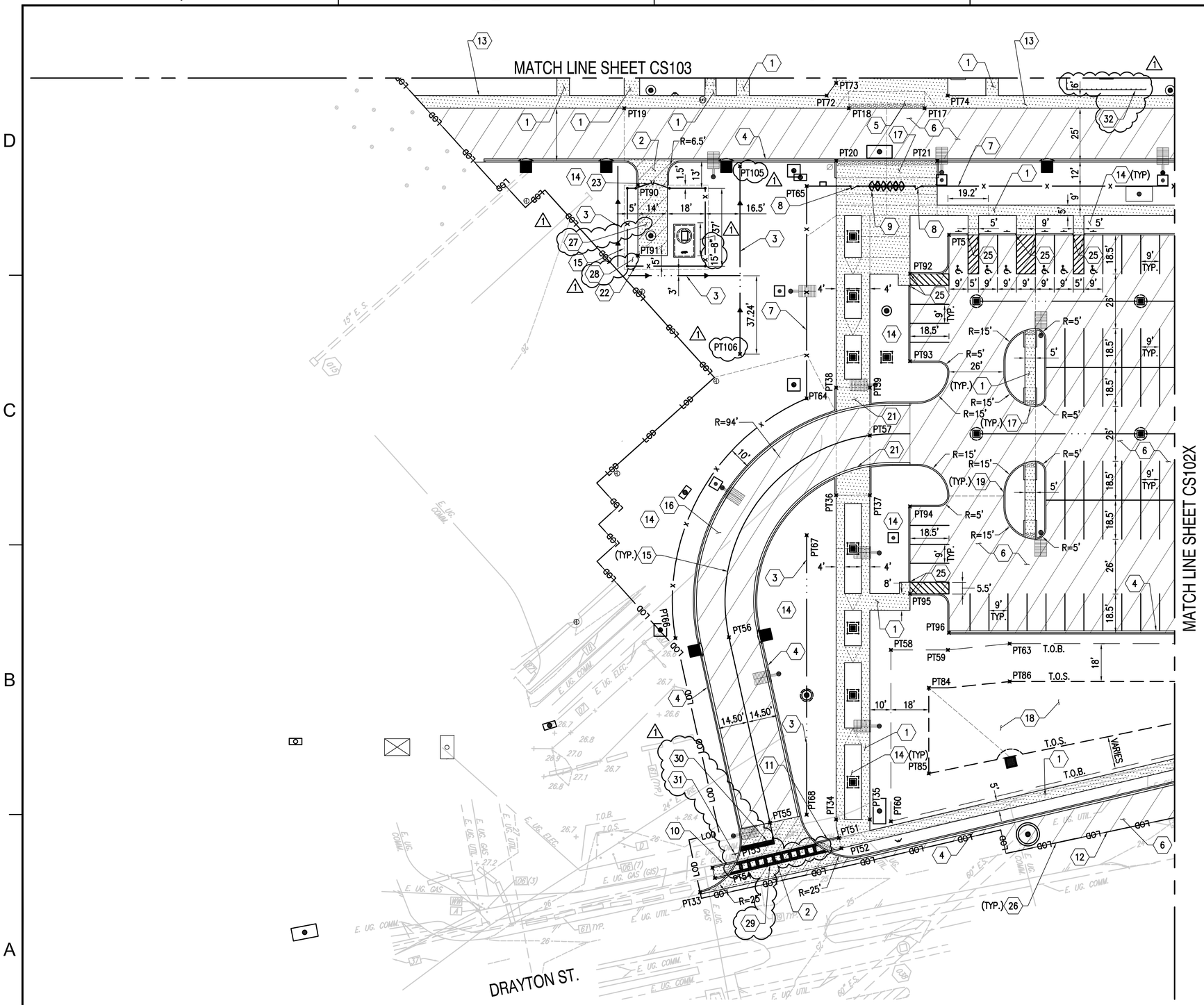
SITE LAYOUT CONTROL POINTS

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871424
SHEET 1329 OF 1412

CS001X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\@BLDG-P475-1363603-CS001X - Volume 6.dwg LAYOUT NAME: CS001X PLOTTED: Tuesday, January 20, 2026 - 4:19pm USER: mlw

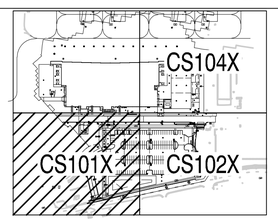


SITE IMPROVEMENT NOTES (THIS SHEET ONLY)

1. CONCRETE SIDEWALK (REFER TO DETAIL CS504/B4)
2. CONCRETE ENTRANCE (REFER TO DETAIL CS503/C4)
3. SWALE (REFER TO DETAIL CG505/A5)
4. CONCRETE CURB AND GUTTER (REFER TO DETAIL CS504/C1)
5. CONCRETE RAMP (TYPE 1) (REFER TO DETAIL CS505/C1)
6. BITUMINOUS PAVEMENT (REFER TO DETAIL CS501/A4)
7. RESTRICTED AREA SECURITY FENCE (REFER TO DETAIL CS506/C1)
8. SINGLE LEAF GATE (REFER TO DETAIL CS510/A1 & SHEET CS509)
9. DOUBLE TANDEM TURNSTILES (REFER TO DETAIL CS509/A2 & SHEET CS508)
10. CONCRETE RAMP (TYPE 2) (REFER TO DETAIL CS505/A1)
11. CONCRETE RAMP (TYPE 3) (REFER TO DETAIL CS505/C4)
12. BITUMINOUS PAVEMENT INTERFACE (REFER TO DETAIL CS501/B1)
13. TURNDOWN EDGE SIDEWALK (REFER TO DETAIL CS504/A3)
14. LANDSCAPE AREA (REFER TO LANDSCAPE PLANS)
15. GRADE BREAK
16. ACCESS DRIVE PAVEMENT (REFER TO DETAIL CS501/C5)
17. CONCRETE RAMP (TYPE 4) (REFER TO DETAIL CS505/A4)
18. DRY DETENTION AREA (REFER TO CG SERIES SHEETS)
19. CONCRETE CURB (REFER TO DETAIL CS504/C3)
20. CONCRETE MEDIAN (REFER TO DETAILS CS504/A4 AND VOLUME 4, PAE401/A3)
21. CONCRETE RAMP (TYPE 6) (REFER TO DETAIL CS505/B1)
22. CHAIN LINK FENCE (REFER TO DETAIL CS506/C1, CS510/C1 & CU508/A1)
23. DOUBLE LEAF GATE (REFER TO DETAIL CS510/B3 & CU508/A1)
25. CURB WIPEDOWN (REFER TO DETAIL CS501/C2)
26. WHITE PAINT LINE MARKING. MATCH EXISTING PAVEMENT MARKING LAYOUT. ASSUME 4" THICKNESS (REFER TO DETAIL CS512X/A1) 1
27. CONCRETE PAVEMENT (REFER TO DETAIL CS501/C1). PROVIDE TRANSVERSE CONTROL JOINTS AT 11' +/- ON CENTER. PROVIDE REINFORCED SLABS FOR SLABS CONTAINING AND ADJACENT TO SANITARY STRCUTURE. REFER TO PCC PAVEMENT NOTES SHEET CS502.
28. 2" MIN. #57 STONE OVER 4" MIN. CRUSHER RUN OVER FILTER FABRIC WITHIN FENCED AREA.
29. PEDESTRIAN CROSSWALK (REFER TO VOLUME 6 DETAIL CS512X/B5)
30. STOP BAR (REFER TO VOLUME 6 DETAIL CS512X/A4)
31. STOP SIGN (REFER TO DETAIL CS512X/D4 & D5)
32. SCREEN WALL (REFER TO ARCHITECTURAL DRAWING AS402)

SHEET NOTES

1. REFER TO THE CG SHEETS FOR STORMWATER IMPROVEMENTS AND CU SHEETS FOR UTILITY IMPROVEMENTS.
2. REFER TO SHEET C-005X FOR THE OVERALL SITE PLAN.
3. REFER TO SHEET CS001X FOR SITE LAYOUT CONTROL POINTS (PT#).
4. REFER TO SHEET CP106X FOR THE PARKING LOT AND ROAD PAVEMENT MARKINGS.
5. PRIOR TO CONSTRUCTION OF THE CONCRETE SIDEWALKS AND ADJACENT SLABS A JOINT PLAN MUST BE SUBMITTED FOR APPROVAL.



KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

#	DATE	DESCRIPTION	SYM	APPR
1	01/16/2026	BY AMENDMENT MOD P00006 AND MOD P00007		
	10/2025	MOD P00005		
	05/2023			

NAVFAC

SOUTH CAROLINA Annalee Bamforth No. 23067 01/13/23 ANNALEE BAMFORTH SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Superalacy Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES CAB | DRW CAD | CHK ALB

PM/DM KTB/RLH

BRANCH MANAGER DLB

CHIEF ENG/ARCH EJA

FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6 SITE BASE BID AND ADDITIONAL OPTIONS

LAYOUT PLAN

SCALE: GRAPHIC

EPROJECT NO.: 1363603

CONSTR. CONTR. NO.

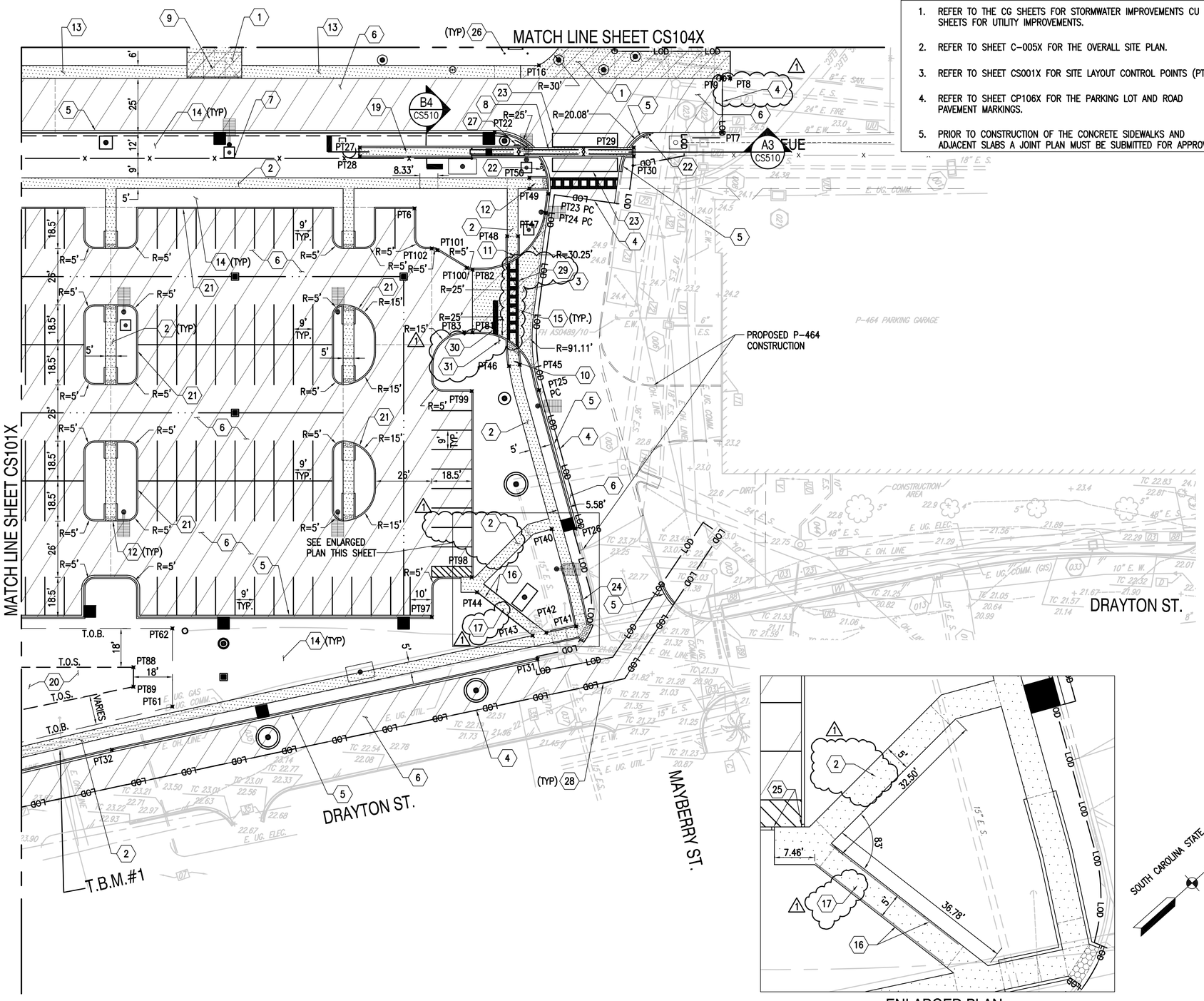
NAVFAC DRAWING NO. 12871425

SHEET 1330 OF 1412

CS101X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CS101X - Volume 6.dwg LAYOUT NAME: CS101X PLOTTED: Tuesday, January 20, 2026 - 4:19pm USER: mtw



SHEET NOTES

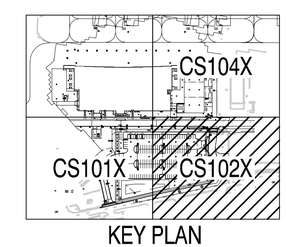
1. REFER TO THE CG SHEETS FOR STORMWATER IMPROVEMENTS CU SHEETS FOR UTILITY IMPROVEMENTS.
2. REFER TO SHEET C-005X FOR THE OVERALL SITE PLAN.
3. REFER TO SHEET CS001X FOR SITE LAYOUT CONTROL POINTS (PT#).
4. REFER TO SHEET CP106X FOR THE PARKING LOT AND ROAD PAVEMENT MARKINGS.
5. PRIOR TO CONSTRUCTION OF THE CONCRETE SIDEWALKS AND ADJACENT SLABS A JOINT PLAN MUST BE SUBMITTED FOR APPROVAL.

SITE IMPROVEMENT NOTES (THIS SHEET ONLY)

1. CONCRETE PAVEMENT (8-INCH THICK) (REFER TO DETAIL CS501/C1)
2. CONCRETE SIDEWALK (REFER TO DETAIL CS504/B4)
3. CONCRETE ENTRANCE (REFER TO DETAIL CS503/A4)
4. BITUMINOUS PAVEMENT INTERFACE (REFER TO DETAIL CS501/B1)
5. CONCRETE CURB AND GUTTER (REFER TO DETAIL CS504/C1)
6. BITUMINOUS PAVEMENT (REFER TO DETAIL CS501/A4)
7. RESTRICTED AREA SECURITY FENCE (REFER TO DETAIL CS506/C1)
8. SLIDING GATE (REFER TO DETAIL CS510/C4)
9. CONCRETE RAMP (TYPE 1) (REFER TO DETAIL CS505/C1)
10. CONCRETE RAMP (TYPE 2) (REFER TO DETAIL CS505/A1)
11. CONCRETE RAMP (TYPE 3) (REFER TO DETAIL CS505/C4)
12. CONCRETE RAMP (TYPE 4) (REFER TO DETAIL CS505/A4)
13. TURNDOWN EDGE SIDEWALK (REFER TO DETAIL CS504/A3)
14. LANDSCAPE AREA (REFER TO LANDSCAPE PLANS)
15. GRADE BREAK
16. HANDRAIL (REFER TO LANDSCAPE PLANS)
17. CONCRETE HANDICAP RAMP (REFER TO DETAIL CS512X/C2) 1
18. NOT USED 1
19. CONCRETE CURBED GATE CHANNEL (REFER TO SHEET CS510/B4 FOR SECTION)
20. DRY DETENTION AREA (REFER TO CG SERIES SHEETS)
21. CONCRETE CURB (REFER TO DETAIL CS504/C3)
22. KEY PAD/ CARD READER (REFER TO DETAIL CS510/A5)
23. TRAFFIC DETECTOR LOOP (REFER TO DETAIL CS503/A1)
24. CONCRETE RAMP (TYPE 5) (REFER TO DETAIL CS505/B3)
25. CURB WIPEDOWN (REFER TO DETAIL CS501/C2)
26. BOLLARD (REFER TO DETAIL VOLUME 3, OAE561/C3)
27. GATE OPERATOR (REFER TO CS510/C4)
28. WHITE PAINT LINE MARKING. MATCH EXISTING PAVEMENT MARKING LAYOUT. ASSUME 4" THICKNESS (REFER TO DETAIL CS512X/A1) 1
29. PEDESTRIAN CROSSWALK (REFER TO VOLUME 6 DETAIL CS512X/B5)
30. STOP BAR (REFER TO VOLUME 6 DETAIL CS512X/A4)
31. STOP SIGN (REFER TO DETAIL CS512X/D4 & D5)

ENLARGED PLAN
1" = 10'

SOUTH CAROLINA STATE PLANE
N



KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

1" = 10' 0 10' 20' 30' 40'

#	SYM	DESCRIPTION	DATE	APPR
1		BY AMENDMENT MOD P00006 AND MOD P00007	01/16/2026 10/2025	
		MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 01/13/23 ANNALEE BAMFORTH SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES CAB	DRW CAD CHK ALB
PM/DM	KTB/RLH
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

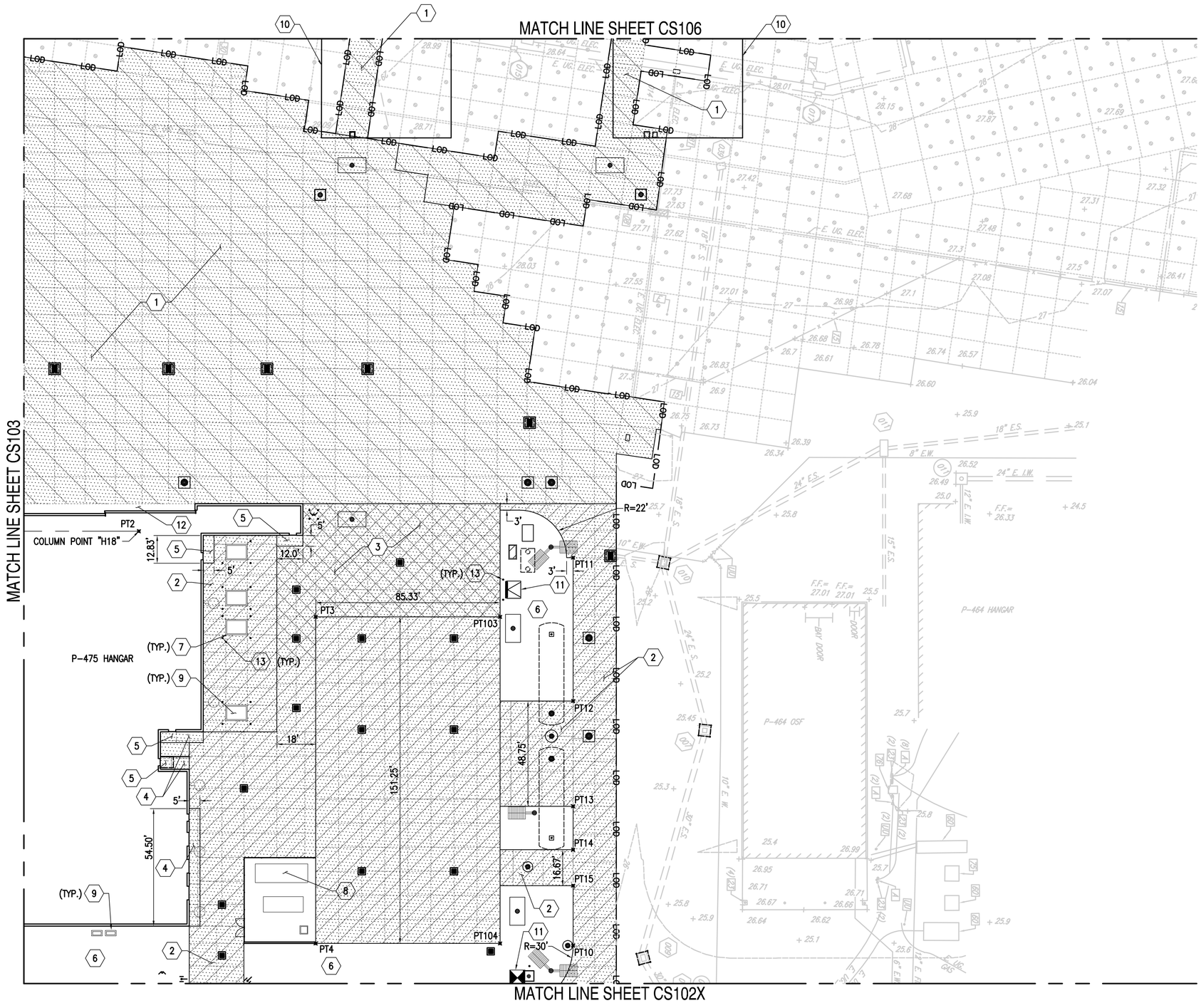
LAYOUT PLAN

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871426
SHEET 1331 OF 1412

CS102X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CS102X - Volume 6.dwg LAYOUT NAME: CS102X PLOTTED: Tuesday, January 20, 2026 - 4:20pm USER: mtw



SITE IMPROVEMENT NOTES (THIS SHEET ONLY)

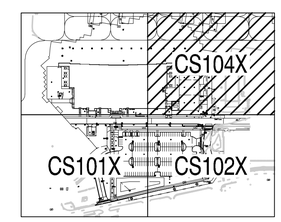
1. CONCRETE AIRFIELD PAVEMENT (REFER TO DETAIL CS501/C3 AND SHEET CS002)
2. CONCRETE PAVEMENT (8-INCH THICK) (REFER TO DETAIL CS501/C1)
3. CONCRETE PAVEMENT (9-INCH THICK) (REFER TO DETAIL CS501/D2) 1
4. TURNED DOWN EDGE CONCRETE SIDEWALK (REFER TO DETAIL CS504/B1)
5. CONCRETE STOOP (REFER TO DETAIL CS504/A1)
6. LANDSCAPE AREA (REFER TO LANDSCAPE PLANS)
7. HOUSEKEEPING PAD (REFER TO MECHANICAL PLANS)
8. MECHANICAL YARD (REFER TO MECHANICAL & STRUCTURAL PLANS)
9. MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
10. SUN SHADE BOUNDARY
11. TRANSFORMER PAD (REFER TO ELECTRICAL PLANS)
12. REFER TO ARCHITECTURAL PLANS FOR DOOR RAILS
13. BOLLARD (REFER TO DETAIL VOLUME 3, OAE561/C3)

SHEET NOTES

1. REFER TO CS403X FOR ENLARGED JOINT PLAN.
2. REFER TO THE CG SHEETS FOR STORMWATER IMPROVEMENTS AND CU SHEETS FOR UTILITY IMPROVEMENTS.
3. REFER TO SHEET C-005X FOR THE OVERALL SITE PLAN.
4. REFER TO SHEETS CP401 THROUGH CP404 FOR PAVEMENT MARKINGS.
5. REFER TO SHEET CS001X FOR SITE LAYOUT CONTROL POINTS (PT#).

SOUTH CAROLINA STATE PLANE

N



KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA No. 23067 01/13/23 ANNALEE BAMFORTH SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

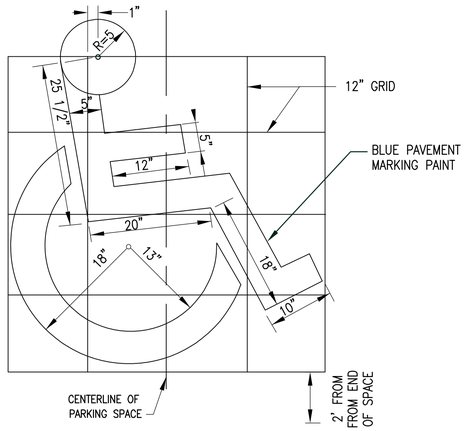
DES	CAB	DRW CAD	CHK ALB
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
LAYOUT PLAN

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871427
SHEET 1332 OF 1412
CS104X

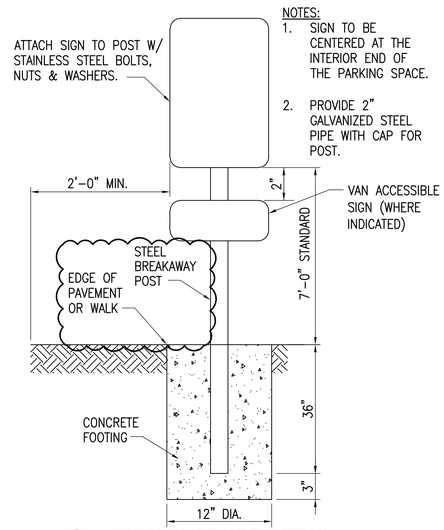
DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CS104X - Volume 6.dwg LAYOUT NAME: CS104X PLOTTED: Tuesday, January 20, 2026 - 4:20pm USER: mlw



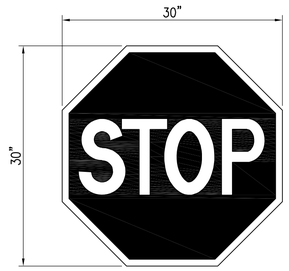
C1 ACCESSIBLE PARKING SYMBOL
N.T.S.

D3 HANDICAP PARKING SIGN
N.T.S
(12" X 18")

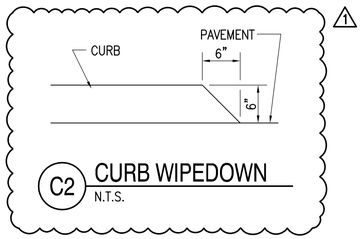


NOTES:
1. SIGN TO BE CENTERED AT THE INTERIOR END OF THE PARKING SPACE.
2. PROVIDE 2" GALVANIZED STEEL PIPE WITH CAP FOR POST.

D4 SIGN SUPPORT DETAIL
N.T.S.

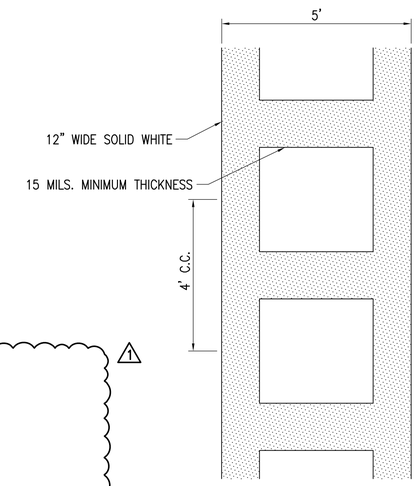


D5 STOP SIGN (R1-1)
N.T.S

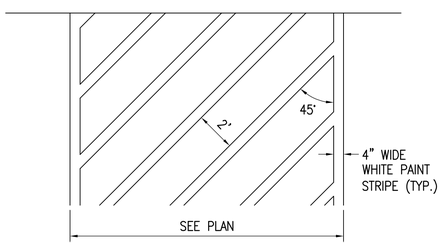


C2 CURB WIPEDOWN
N.T.S.

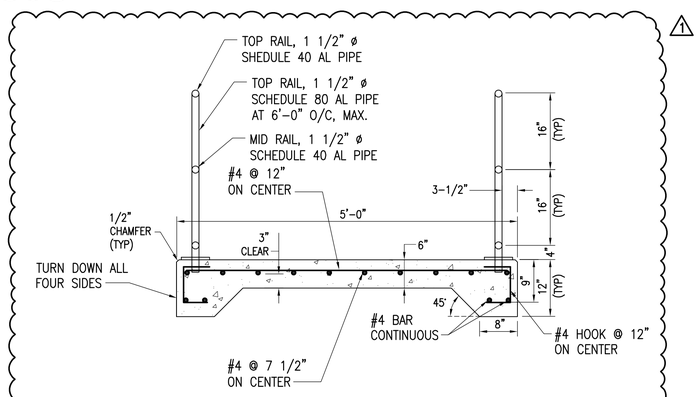
C3 VAN ACCESSIBLE "B" (MUTCD R7-8A)
N.T.S
(18" X 9")



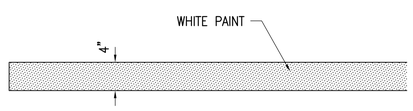
B5 PEDESTRIAN CROSSWALK
(WHITE RETROREFLECTIVE PAINT)
N.T.S.



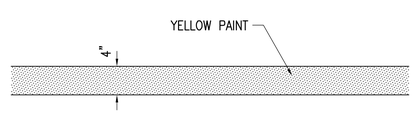
B1 PAINTED ISLAND
N.T.S.



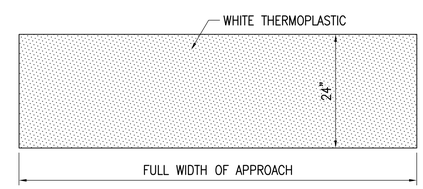
B2 RAMP AND STAIR SECTION
N.T.S.



A1 4" WHITE PAINT LINE
N.T.S.



A2 4" YELLOW PAINT LINE
(WHITE THERMOPLASTIC PAVEMENT MARKING MATERIAL)
N.T.S.



A4 STOP BAR MARKING DETAIL
(WHITE PAVEMENT MARKING MATERIAL)
N.T.S.

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA Annalee Bamforth No. 23067 01/13/23 ANNALEE BAMFORTH
SEAL

BAMFORTH ENGINEERS + SURVEYORS
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO	DATE 12/15/2022		
DES CAB	DRW CAD	CHK ALB	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
DETAILS

SCALE: NONE
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871444
SHEET 1349 OF 1412
CS512X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\@BLDG-P475-1363603-CS512X - Volume 6.dwg LAYOUT NAME: CS512X PLOTTED: Tuesday, January 20, 2026 - 4:20pm USER: mlw

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
1	C.B. RIM = 26.00 INV. 15" (NE) = 21.35 INV. 15" (SE) = 21.35	N: 230862.48 E: 2084107.40
2	C.B. RIM = 25.50 INV. 15" (NW) = 21.19 INV. 15" (N) = 21.19 INV. 15" (E) = 21.19	N: 230821.35 E: 2084153.61
3	SCDOT TYPE 16 RIM = 25.84 INV. 15" (NW) = 20.89 INV. 15" (SW) = 20.89	N: 230849.49 E: 2084336.82
4	SCDOT TYPE 16 (NOTE 2) RIM = 25.66 INV. 15" (W) = 20.79 INV. 15" (NE) = 20.79	N: 230820.98 E: 2084311.44
5	SCDOT TYPE 16 RIM = 25.50 INV. 15" (NW) = 19.02 INV. 18" (NE) = 18.77	N: 230892.06 E: 2084374.71
6	SCDOT TYPE 16 (NOTE 10) 1 RIM = 25.50 INV. 18" (SW) = 18.46 INV. 15" (NW) = 18.71 INV. 24" (NE) = 17.96	N: 231005.85 E: 2084476.01
7	C.B. RIM = 27.11 INV. 15" (SW) = 20.86	N: 231337.11 E: 2084457.05
8	C.B. RIM = 27.20 INV. 15" (NE) = 20.71 INV. 6" (W) = 23.85 INV. 15" (SE) = 20.71	N: 231292.90 E: 2084434.50
9	C.B. RIM = 27.18 INV. 15" (NW) = 20.64 INV. 15" (NE) = 20.64 INV. 15" (SE) = 20.64	N: 231277.88 E: 2084451.36
10	C.B. RIM = 27.16 INV. 15" (NW) = 20.55 INV. 6" (W) = 23.14 INV. 15" (S) = 20.55	N: 231256.47 E: 2084475.42
11	C.B. RIM = 26.98 INV. 15" (N) = 20.41 INV. 6" (W) = 23.66 INV. 15" (SE) = 20.41	N: 231213.58 E: 2084487.13
12	C.B. RIM = 27.16 INV. 15" (NW) = 20.25 INV. 18" (SE) = 20.00	N: 231170.16 E: 2084520.56
13	C.B. RIM = 26.93 INV. 18" (NW) = 19.93 INV. 6" (SW) = 21.20 INV. 18" (SE) = 19.93	N: 231154.54 E: 2084538.12
14	SCDOT TYPE 16 (NOTE 11) 1 RIM = 25.50 INV. 18" (NW) = 19.77 INV. 24" (SW) = 17.66 INV. 30" (NE) = 17.46	N: 231119.65 E: 2084577.31
15	24" CATCH BASIN RIM = 24.78 INV. 12" (NW) = 21.75	N: 231206.65 E: 2084666.81
16	SCDOT TYPE 16 RIM = 25.64 INV. 30" (SW) = 16.96 INV. 15" (NW) = 21.76 INV. 12" (SE) = 21.55 INV. 30" (NE) = 16.96	N: 231212.64 E: 2084660.08

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
17	S. MH. RIM = 25.55 INV. 30" (SW) = 16.93 INV. 30" (SE) = 16.93	N: 231215.47 E: 2084667.87
18	S. MH (GRATE TOP) RIM = 25.18 INV. 30" (NW) = 16.46 INV. 30" (SE) = 16.46	N: 231136.34 E: 2084756.76
19	SCDOT TYPE 16 (NOTE 12) RIM = 23.75 INV. 15" (W) = 17.63 1	N: 231121.89 E: 2084821.10
20	S. MH. (108" DIA.) (NOTE 3) RIM = 24.87 INV. 30" (NW) = 16.29 INV. 15" (E) = 17.54 INV. 60" (SE) = 13.79	N: 231113.86 E: 2084789.95
21	S. MH. (108" DIA.) RIM = 22.25 INV. 60" (NW) = 13.54 INV. 60" (SW) = 13.54	N: 231036.70 E: 2084848.82
22	SCDOT TYPE 16 RIM = 22.93 INV. 15" (SE) = 17.08	N: 230954.94 E: 2084792.84
23	S. MH. (108" DIA.) RIM = 22.80 INV. 15" (NW) = 17.05 INV. 60" (NE) = 13.30 INV. 60" (SW) = 13.30	N: 230950.40 E: 2084801.07
24	HYDRODYNAMIC MANUFACTURED TREATMENT DEVICE (NOTE 5) RIM = 23.58 INV. 15" (NW) = 17.95 INV. 18" (SE) = 20.20	N: 230963.86 E: 2084755.03
25	C.B. RIM = 23.00 1 INV. 18" (NW) = 20.15 INV. 18" (SW) = 20.15	N: 230953.55 E: 2084766.61
26	F.E.S. INV. 18" (NE) = 20.00	N: 230922.39 E: 2084738.87
27	C.B. RIM = 26.02 INV. 15" (SE) = 20.31	N: 230913.12 E: 2084441.55
28	C.B. RIM = 25.72 INV. 15" (NW) = 20.22 INV. 15" (SE) = 20.22	N: 230894.24 E: 2084462.75
29	S. MH. (NOTE 6) RIM = 26.50 INV. 15" (NE) = 20.49 INV. 18" (SE) = 20.03	N: 230901.58 E: 2084478.58
30	C.B. (NOTE 14) 1 RIM = 26.34 INV. 18" (NW) = 19.95 INV. 18" (SW) = 19.95	N: 230886.95 E: 2084495.02
31	C.B. RIM = 25.72 INV. 15" (NW) = 20.14 INV. 18" (NE) = 19.89 INV. 24" (SE) = 19.39	N: 230875.00 E: 2084484.38
32	C.B. (NOTE 15) 1 RIM = 26.02 INV. 24" (NW) = 19.21 INV. 24" (SE) = 19.21	N: 230814.54 E: 2084552.29

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
33	C.B. RIM = 25.72 INV. 24" (NW) = 19.13 INV. 24" (SE) = 19.13	N: 230789.45 E: 2084580.48
34	SCDOT TYPE 16 RIM = 25.27 INV. 15" (NE) = 20.04	N: 230728.57 E: 2084539.87
35	SCDOT TYPE 16 RIM = 25.27 INV. 15" (SW) = 19.97 INV. 15" (E) = 19.97	N: 230753.89 E: 2084554.02
36	S. MH. (GRATE TOP) RIM = 24.90 INV. 15" (W) = 19.88 INV. 15" (NE) = 19.88	N: 230751.78 E: 2084589.70
37	C.B. RIM = 25.15 INV. 15" (NW) = 19.92	N: 230740.78 E: 2084635.15
38	C.B. RIM = 25.72 INV. 15" (SE) = 19.82 INV. 24" (NW) = 19.07 INV. 15" (SW) = 19.82 INV. 24" (NE) = 19.07	N: 230768.22 E: 2084604.33
39	F.E.S. RIM = 21.38 INV. 24" (SW) = 19.00	N: 230795.11 E: 2084628.27
40	OUTLET STRUCTURE RIM = 22.80 INV. 24" (SE) = 16.94	N: 230803.14 E: 2084677.84
41	S. MH. (108" DIA.) (NOTE 7) RIM = 24.30 INV. 60" (NE) = 12.83 INV. 24" (NW) = 16.83	N: 230786.34 E: 2084708.91
42	AIRFIELD CATCH BASIN RIM = 27.59 INV. 15" (NE) = 21.99	N: 231277.28 E: 2084283.67
43	AIRFIELD CATCH BASIN RIM = 27.61 INV. 15" (SW) = 21.86 INV. 15" (NE) = 21.86	N: 231316.66 E: 2084318.72
44	AIRFIELD CATCH BASIN RIM = 27.44 INV. 15" (SW) = 21.74 INV. 15" (NE) = 21.74	N: 231350.71 E: 2084349.03
45	AIRFIELD CATCH BASIN RIM = 27.36 INV. 15" (SW) = 21.51 INV. 15" (NE) = 21.51	N: 231385.56 E: 2084380.06
46	AIRFIELD CATCH BASIN RIM = 27.20 INV. 15" (SW) = 20.76 INV. 15" (E) = 20.76	N: 231424.96 E: 2084448.60
47	AIRFIELD CATCH BASIN (NOTE 8) RIM = 26.14 INV. 15" (W) = 20.06	N: 231412.00 E: 2084519.61
48	AIRFIELD CATCH BASIN RIM = 27.56 INV. 15" (SW) = 22.81	N: 231245.68 E: 2084255.54

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
49	AIRFIELD CATCH BASIN RIM = 27.53 INV. 15" (NE) = 22.70 INV. 15" (SW) = 22.70	N: 231214.08 E: 2084227.41
50	AIRFIELD CATCH BASIN RIM = 27.51 INV. 15" (NE) = 22.58 INV. 18" (SW) = 22.33	N: 231182.48 E: 2084199.28
51	AIRFIELD CATCH BASIN RIM = 27.48 INV. 18" (NE) = 22.20 INV. 24" (SW) = 21.70	N: 231150.87 E: 2084171.14
52	AIRFIELD CATCH BASIN RIM = 27.45 INV. 24" (NE) = 21.62 INV. 24" (SW) = 21.62	N: 231119.27 E: 2084143.01
53	AIRFIELD CATCH BASIN RIM = 27.42 INV. 24" (NE) = 21.53 INV. 30" (SW) = 21.03	N: 231087.67 E: 2084114.88
54	AIRFIELD CATCH BASIN RIM = 27.39 INV. 30" (NE) = 20.95 INV. 30" (SW) = 20.95	N: 231056.07 E: 2084086.75
55	AIRFIELD CATCH BASIN RIM = 27.36 INV. 30" (NE) = 20.87 INV. 30" (SW) = 20.87	N: 231027.23 E: 2084061.08
56	AIRFIELD CATCH BASIN RIM = 27.29 INV. 15" (SE) = 21.99	N: 230993.18 E: 2084030.77
57	AIRFIELD S. MH. (NOTE 9) RIM = 27.77 INV. 15" (NW) = 21.91	N: 230972.07 E: 2084054.47
58	SCDOT TYPE 16 (NOTE 16) RIM = 26.02 INV. 15" (SW) = 21.70 1	N: 231034.14 E: 2084801.31
59	C.B. RIM = 25.64 INV. 15" (SW) = 22.16	N: 231138.87 E: 2084683.67
60	C.B. RIM = 25.26 INV. 15" (NE) = 21.93 INV. 15" (SE) = 21.93	N: 231080.61 E: 2084631.81
61	C.B. RIM = 25.26 INV. 15" (NW) = 21.74 INV. 15" (SE) = 21.74	N: 231038.72 E: 2084678.86
62	SCDOT TYPE 16 (NOTE 17) 1 RIM = 24.66 INV. 15" (NW) = 21.45 INV. 15" (NE) = 21.45 INV. 15" (SE) = 18.70	N: 230971.95 E: 2084745.94
63	SCDOT TYPE 16 (NOTE 18) RIM = 25.09 INV. 15" (W) = 21.34 1	N: 230925.37 E: 2084700.91
64	C.B. RIM = 25.26 INV. 15" (E) = 21.04 INV. 15" (NW) = 21.04	N: 230952.82 E: 2084602.40

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
65	C.B. RIM = 25.26 INV. 15" (SE) = 20.85 INV. 15" (SW) = 20.85	N: 230994.71 E: 2084555.34
66	C.B. RIM = 25.68 INV. 15" (NW) = 20.81	N: 230894.56 E: 2084550.54
67	C.B. RIM = 25.62 INV. 15" (NE) = 20.62 INV. 15" (SE) = 20.62 INV. 15" (SW) = 20.62	N: 230936.45 E: 2084503.48
68	C.B. RIM = 27.68 INV. 15" (NE) = 22.18	N: 231228.83 E: 2084552.10
69	C.B. RIM = 27.68 INV. 15" (SW) = 22.05 INV. 15" (E) = 22.05	N: 231260.69 E: 2084580.46
70	C.B. RIM = 27.36 INV. 15" (W) = 21.93 INV. 15" (SE) = 21.93	N: 231248.78 E: 2084619.48
71	C.B. RIM = 27.68 INV. 15" (SW) = 20.99	N: 231304.33 E: 2084531.45
72	C.B. RIM = 27.68 INV. 15" (NE) = 20.86 INV. 15" (NW) = 20.86	N: 231272.46 E: 2084503.08
73	C.B. RIM = 27.60 INV. 15" (SW) = 20.86	N: 231332.41 E: 2084499.90
74	C.B. RIM = 27.60 INV. 15" (SE) = 20.73 INV. 15" (NE) = 20.73 INV. 15" (SW) = 20.73	N: 231300.54 E: 2084471.53
EX22	E. C.B. (NOTE 4) RIM = 27.53 INV. 30" (NE) = 20.80	N: 231020.07 E: 2084048.63
RD1	PIPE CONNECTION INV. 6" (SE) = 22.88	N: 230954.12 E: 2084108.10
RD2	S. CO. INV. 6" (NW) = 22.42 INV. 6" (SW) = 22.42	N: 230924.93 E: 2084140.90
RD3	PIPE CONNECTION INV. 6" (SE) = 22.69	N: 230940.30 E: 2084095.80
RD4	C.B. RIM = 27.43 INV. 6" (NE) = 22.23 INV. 6" (NW) = 22.23 INV. 15" (SW) = 21.48	N: 230911.11 E: 2084128.60
RD5	PIPE CONNECTION INV. 6" (S) = 22.91	N: 230909.97 E: 2084188.51

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
RD6	PIPE CONNECTION INV. 3" (SW) = 23.32	N: 230910.89 E: 2084189.88
RD7	3" X 6" WYE INV. 6" (N) = 22.88 INV. 3" (NE) = 23.00 INV. 6" (S) = 22.88	N: 230909.35 E: 2084188.51
RD8	PIPE CONNECTION INV. 3" (SW) = 23.25	N: 230858.43 E: 2084249.27
RD9	3" X 6" C.O. INV. 3" (NE) = 23.09 INV. 6" (NW) = 22.84	N: 230847.12 E: 2084239.20
RD10	PIPE CONNECTION INV. 3" (SW) = 23.64	N: 230871.07 E: 2084235.08
RD11	3" X 6" WYE INV. 6" (SE) = 22.64 INV. 3" (NE) = 22.77 INV. 6" (NW) = 22.64	N: 230859.76 E: 2084225.01
RD12	PIPE CONNECTION INV. 3" (SW) = 23.19	N: 230890.63 E: 2084213.10
RD13	3" X 6" WYE INV. 6" (SE) = 22.34 INV. 3" (NE) = 22.47 INV. 6" (NW) = 22.34	N: 230879.32 E: 2084203.04
RD14	C.B. RIM = 26.85 INV. 6" (SE) = 22.15 INV. 6" (N) = 22.15 INV. 15" (SW) = 21.40	N: 230891.15 E: 2084189.75
RD15	C.B. RIM = 26.40 INV. 15" (NE) = 21.28 INV. 15" (S) = 21.28	N: 230855.42 E: 2084157.94
RD16	C.B. (NOTE 1) RIM = 27.37 INV. 15" (SE) = 21.04	N: 230885.62 E: 2084296.29
RD17	S. CO. INV. 6" (NE) = 24.10	N: 230902.11 E: 2084315.42
RD18	6" WYE INV. 6" (SW) = 23.58 INV. 6" (NE) = 23.58	N: 230911.44 E: 2084323.73
RD19	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 230927.56 E: 2084324.69
RD20	6" WYE INV. 6" (SW) = 23.05 INV. 6" (NW) = 23.05 INV. 6" (NE) = 23.05	N: 230920.91 E: 2084332.16
RD21	PIPE CONNECTION INV. 6" (S) = 24.31	N: 230967.89 E: 2084360.59

NOTES:

1. REFER TO SHEET CG002 FOR NOTES.

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 01/13/23 ANNALEE BAMFORTH
SEAL

BAMFORTH ENGINEERS + SURVEYORS
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026
ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.
SATISFACTORY TO DATE 12/15/2022

DES CAB	DRW CAD / CHK ALB
PM/DM	KTB/RLH
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
STORM SCHEDULE

SCALE: NONE
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871429
SHEET 1334 OF 1412
CG001X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CG001X - Volume 6.dwg LAYOUT NAME: CG001X PLOTTED: Tuesday, January 20, 2026 - 4:20pm USER: mtw

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
RD22	PIPE CONNECTION INV. 6" (SE) = 24.17	N: 230962.66 E: 2084355.93
RD23	6" WYE INV. 6" (NW) = 24.10 INV. 6" (N) = 24.10 INV. 6" (S) = 24.10	N: 230958.00 E: 2084361.17
RD24	S. CO. INV. 6" (N) = 24.02 INV. 6" (SW) = 24.02	N: 230953.78 E: 2084361.41
RD25	PIPE CONNECTION INV. 6" (SE) = 23.66	N: 230951.72 E: 2084346.19
RD26	6" WYE INV. 6" (NE) = 23.55 INV. 6" (NW) = 23.55 INV. 6" (SW) = 23.55	N: 230945.07 E: 2084353.66
RD27	C.B. (NOTE 13) 1 RIM = 27.15 INV. 6" (SW) = 22.77 INV. 6" (NE) = 22.53 INV. 15" (SE) = 19.15	N: 230925.94 E: 2084336.64
RD28	PIPE CONNECTION INV. 6" (E) = 25.26	N: 231009.85 E: 2084397.94
RD29	S. CO. INV. 6" (W) = 25.24 INV. 6" (NE) = 25.24	N: 231009.98 E: 2084400.06
RD30	PIPE CONNECTION INV. 6" (SE) = 25.13	N: 231015.23 E: 2084402.73
RD31	6" WYE INV. 6" (SW) = 25.11 INV. 6" (NW) = 25.11 INV. 6" (NE) = 25.11	N: 231014.23 E: 2084403.85
RD32	S. CO. INV. 6" (SW) = 24.42 INV. 6" (E) = 24.42	N: 231037.79 E: 2084424.82
RD33	PIPE CONNECTION INV. 6" (SE) = 24.38	N: 231040.62 E: 2084425.33
RD34	6" WYE INV. 6" (W) = 24.34 INV. 6" (NW) = 24.34 INV. 6" (E) = 24.34	N: 231037.99 E: 2084428.29
RD35	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231095.90 E: 2084474.54
RD36	S. CO. INV. 6" (NW) = 23.88 INV. 6" (SW) = 23.88	N: 231088.92 E: 2084482.39
RD37	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231082.08 E: 2084462.24

STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
RD38	6" WYE INV. 6" (NE) = 23.11 INV. 6" (NW) = 23.11 INV. 6" (SW) = 23.11	N: 231075.10 E: 2084470.09
RD39	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231068.26 E: 2084449.94
RD40	6" WYE INV. 6" (NE) = 22.34 INV. 6" (NW) = 22.34 INV. 6" (SW) = 22.34	N: 231061.28 E: 2084457.78
RD41	S. CO. INV. 6" (S) = 24.10	N: 231054.45 E: 2084437.64
RD42	C.B. RIM = 27.22 INV. 6" (NE) = 21.18 INV. 6" (N) = 23.82 INV. 6" (W) = 24.14 INV. 15" (SE) = 18.98	N: 231039.74 E: 2084437.94
RD49	S. CO. INV. 6" (E) = 24.10	N: 231292.23 E: 2084409.08
RD50	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231278.41 E: 2084396.78
RD51	S. CO. INV. 6" (NW) = 23.56 INV. 6" (E) = 23.56	N: 231244.02 E: 2084435.42
RD52	S. CO. W/ 3" X 6" WYE INV. 6" (NE) = 24.21	N: 231199.68 E: 2084450.45
RD53	PIPE CONNECTION INV. 6" (E) = 24.19	N: 231203.32 E: 2084449.67
RD54	WYE INV. 6" (SW) = 24.14 INV. 6" (W) = 24.14 INV. 6" (NE) = 24.14	N: 231203.56 E: 2084453.90
RD55	S. CO. INV. 6" (SW) = 24.01 INV. 6" (E) = 24.01	N: 231210.84 E: 2084460.38
RD56	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231109.72 E: 2084486.84
RD57	S. CO. INV. 6" (NW) = 23.92 INV. 6" (NE) = 23.92	N: 231104.07 E: 2084493.19
RD58	PIPE CONNECTION INV. 6" (SE) = 24.10	N: 231123.54 E: 2084499.14
RD59	6" WYE INV. 6" (SW) = 23.15 INV. 6" (NW) = 23.15 INV. 6" (NE) = 23.15	N: 231117.89 E: 2084505.49

STORM STRUCTURE DATA NOTES:

1. CONNECT 10" PIPE, INV. = 22.30
2. CONNECT TO EXISTING 15" PIPE, INV. = 20.79
3. CONNECT TO EXISTING 60" PIPE, INV. = 13.79±
4. CONNECT TO EXISTING STRUCTURE
   INV. 24" (NE) = 21.89
   INV. 6" (E) = 21.98
   INV. 36" (SE) = 20.30; UNDETERMINED
   INV. (SW) = 20.88; UNDETERMINED
   INV. 30" (NW) = 20.26; UNDETERMINED
5. CONNECT 12" PIPE, INV. = 23.10
6. CONNECT 16" PIPE, INV. = 23.10
7. CONNECT TO EXISTING 60" PIPE, INV. = 12.83
8. CONNECT TO EXISTING 15" PIPE, INV. = 20.05
9. CONNECT TO EXISTING 36" PIPE, INV. 20.16±
10. SUBDRAINAGE CONNECTION, INV. 4" (SE) = 23.50 1
11. SUBDRAINAGE CONNECTION, INV. 4" (SE) = 23.50
12. SUBDRAINAGE CONNECTION, INV. 4" (W) = 22.25
13. SUBDRAINAGE CONNECTION, INV. 4" (SE) = 25.15
14. SUBDRAINAGE CONNECTION, INV. 4" (SW) = 24.40
15. SUBDRAINAGE CONNECTION, INV. 4" (SW) = 24.50
16. SUBDRAINAGE CONNECTION, INV. 4" (NE) = 22.50
17. SUBDRAINAGE CONNECTION, INV. 4" (SW) = 23.50
    INV. 4" (SW) = 22.50
18. SUBDRAINAGE CONNECTION, INV. 4" (SE) = 23.50

STORM STRUCTURE DETAIL NOTES:

CATCH BASIN (C.B.) – REFER TO DETAIL CG505/A1

SCDOT TYPE 16 – REFER TO DETAILS ON SHEETS CG501 – CG504

STORM (S.) MANHOLE (MH.) – REFER TO SHEETS CG508 – CG511

HYDRODYNAMIC MANUFACTURED TREATMENT DEVICE – REFER TO CG507/A1

OUTLET STRUCTURE – REFER TO CG507/A4

AIRFIELD CATCH BASIN – REFER TO DETAIL CG506/A1

FLARED END SECTION (F.E.S.) – REFER TO DETAIL CG505/A3

STORM (S.) CLEANOUT (CO.) – REFER TO DETAIL CG505/B5

REFER TO SHEET CG513 FOR ROOF DRAIN (RD) PIPE CONNECTIONS

REFER TO SHEET LP401 FOR SUBDRAINAGE CONNECTIONS.

STORM PIPE DATA

PIPE CONNECTION	PIPE DETAILS	
1 – 2	62' – 15" S. @ 0.25%	CLASS III
2 – 4	158' – 15" S. @ 0.25%	
3 – 4	38' – 15" S. @ 0.25%	
5 – 6	152' – 18" S. @ 0.20%	CLASS III
6 – 14	152' – 24" S. @ 0.20%	CLASS III
7 – 8	50' – 15" S. @ 0.30%	CLASS III
8 – 9	23' – 15" S. @ 0.30%	
9 – 10	32' – 15" S. @ 0.30%	
10 – 11	44' – 15" S. @ 0.30%	
11 – 12	55' – 15" S. @ 0.30%	
12 – 13	24' – 18" S. @ 0.30%	
13 – 14	54' – 18" S. @ 0.30%	
14 – 16	124' – 30" S. @ 0.40%	
15 – 16	6' – 12" S. @ 3.19%	CLASS III
16 – 17	7' – 30" S. @ 0.40%	
17 – 18	119' – 30" S. @ 0.40%	CLASS III
18 – 20	40' – 30" S. @ 0.40%	
19 – 20	30' – 15" S. @ 0.30%	
20 – 21	97' – 60" S. @ 0.25%	
21 – 23	99' – 60" S. @ 0.25%	
22 – 23	9' – 15" S. @ 0.30%	
23 – 41	188' – 60" S. @ 0.25%	CLASS III
24 – 25	15' – 18" S. @ 0.35%	CLASS III
25 – 26	42' – 18" S. @ 0.35%	CLASS III
27 – 28	28' – 15" S. @ 0.30%	CLASS III
28 – 31	29' – 15" S. @ 0.30%	CLASS III
29 – 30	22' – 18" S. @ 0.35%	CLASS III
30 – 31	16' – 18" S. @ 0.35%	
31 – 32	91' – 24" S. @ 0.20%	CLASS III
32 – 33	38' – 24" S. @ 0.20%	CLASS III
33 – 38	32' – 24" S. @ 0.20%	
34 – 35	29' – 15" S. @ 0.25%	CLASS III
35 – 36	35' – 15" S. @ 0.25%	CLASS III
36 – 38	22' – 15" S. @ 0.25%	CLASS III
37 – 38	41' – 15" S. @ 0.25%	CLASS III
38 – 39	36' – 24" S. @ 0.20%	CLASS III
40 – 41	35' – 24" S. @ 0.30%	CLASS III
42 – 43	53' – 15" S. @ 0.25%	
43 – 44	46' – 15" S. @ 0.25%	
44 – 45	47' – 15" S. @ 0.50%	
45 – 46	76' – 15" S. @ 1.00%	
46 – 47	69' – 15" S. @ 1.00%	
48 – 49	42' – 15" S. @ 0.25%	
49 – 50	42' – 15" S. @ 0.30%	
50 – 51	42' – 18" S. @ 0.30%	

STORM PIPE DATA

PIPE CONNECTION	PIPE DETAILS	
51 – 52	42' – 24" S. @ 0.20%	
52 – 53	42' – 24" S. @ 0.20%	
53 – 54	42' – 30" S. @ 0.20%	
54 – 55	39' – 30" S. @ 0.20%	
55 – EX22	14' – 30" S. @ 0.50%	
56 – 57	31' – 15" S. @ 0.25%	
58 – 62	83' – 15" S. @ 0.30%	
59 – 60	78' – 15" S. @ 0.30%	
60 – 61	63' – 15" S. @ 0.30%	
61 – 62	97' – 15" S. @ 0.30%	CLASS III
62 – 24	9' – 15" S. @ 8.00%	
63 – 64	100' – 15" S. @ 0.30%	
64 – 65	63' – 15" S. @ 0.30%	
65 – 67	78' – 15" S. @ 0.30%	
66 – 67	63' – 15" S. @ 0.30%	
67 – 29	43' – 15" S. @ 0.30%	
68 – 69	43' – 15" S. @ 0.30%	
69 – 70	40' – 15" S. @ 0.30%	
70 – 16	57' – 15" S. @ 0.30%	
71 – 72	43' – 15" S. @ 0.30%	CLASS III
72 – 74	42' – 15" S. @ 0.30%	CLASS III
73 – 74	43' – 15" S. @ 0.30%	
74 – 9	30' – 15" S. @ 0.30%	
RD1 – RD2	44' – 6" S. @ 1.04%	
RD2 – RD4	18' – 6" S. @ 1.04%	
RD3 – RD4	44' – 6" S. @ 1.04%	
RD4 – 1	53' – 15" S. @ 0.25%	
RD5 – RD7	1' – 6" S. @ 4.17%	
RD6 – RD7	2' – 3" S. @ 15.29%	
RD7 – RD14	18' – 6" S. @ 4.17%	
RD8 – RD9	15' – 3" S. @ 1.04%	
RD9 – RD11	19' – 6" S. @ 1.04%	
RD10 – RD11	15' – 3" S. @ 5.75%	
RD11 – RD13	29' – 6" S. @ 1.04%	
RD12 – RD13	15' – 3" S. @ 4.76%	
RD13 – RD14	18' – 6" S. @ 1.04%	
RD14 – RD15	48' – 15" S. @ 0.25%	
RD15 – 2	35' – 15" S. @ 0.25%	
RD16 – 3	54' – 15" S. @ 0.28%	
RD17 – RD18	12' – 6" S. @ 4.17%	
RD18 – RD20	13' – 6" S. @ 4.17%	
RD19 – RD20	10' – 6" S. @ 10.50%	
RD20 – RD27	7' – 6" S. @ 4.17%	
RD21 – RD23	10' – 6" S. @ 2.08%	
RD22 – RD23	7' – 6" S. @ 1.04%	

STORM PIPE DATA

PIPE CONNECTION	PIPE DETAILS
RD23 – RD24	4' – 6" S. @ 2.00%
RD24 – RD26	12' – 6" S. @ 4.00%
RD25 – RD26	10' – 6" S. @ 1.04%
RD26 – RD27	26' – 6" S. @ 4.00%
RD27 – 5	54' – 15" S. @ 0.25%
RD28 – RD29	2' – 6" S. @ 1.04%
RD29 – RD31	6' – 6" S. @ 2.20%
RD30 – RD31	2' – 6" S. @ 1.04%
RD31 – RD32	32' – 6" S. @ 2.20%
RD32 – RD34	3' – 6" S. @ 2.20%
RD33 – RD34	4' – 6" S. @ 1.04%
RD34 – RD42	9' – 6" S. @ 2.20%
RD35 – RD36	11' – 6" S. @ 2.08%
RD36 – RD38	19' – 6" S. @ 4.17%
RD37 – RD38	11' – 6" S. @ 9.42%
RD38 – RD40	18' – 6" S. @ 4.17%
RD39 – RD40	11' – 6" S. @ 16.76%
RD40 – RD42	28' – 6" S. @ 4.17%
RD41 – RD42	13' – 6" S. @ 2.08%
RD42 – 6	54' – 15" S. @ 0.50%
RD49 – 8	24' – 6" S. @ 1.04%
RD50 – RD51	52' – 6" S. @ 1.04%
RD51 – 10	41' – 6" S. @ 1.04%
RD52 – RD54	5' – 6" S. @ 1.35%
RD53 – RD54	4' – 6" S. @ 1.04%
RD54 – RD55	10' – 6" S. @ 1.35%
RD55 – 11	26' – 6" S. @ 1.35%
RD56 – RD57	8' – 6" S. @ 2.08%
RD57 – RD59	19' – 6" S. @ 4.17%
RD58 – RD59	8' – 6" S. @ 11.15%
RD59 – RD61	19' – 6" S. @ 4.17%
RD60 – RD61	8' – 6" S. @ 20.25%
RD61 – 13	31' – 6" S. @ 3.85%

STORM PIPE DATA NOTES:

ALL STORM PIPE 15" AND LARGER TO BE RCP CLASS V UNLESS NOTED OTHERWISE.

ALL STORM PIPE 12" AND SMALLER TO BE PVC, SDR 35.

REFER TO DETAIL CG506/A4 FOR PIPE TRENCH BEDDING DETAIL.

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 ANNALEE BAMFORTH 01/13/23 SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW	CAD	CHK	ALB
PM/DM	KTB/RLH				
BRANCH MANAGER	DLB				
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	DSN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
DO-CORE

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

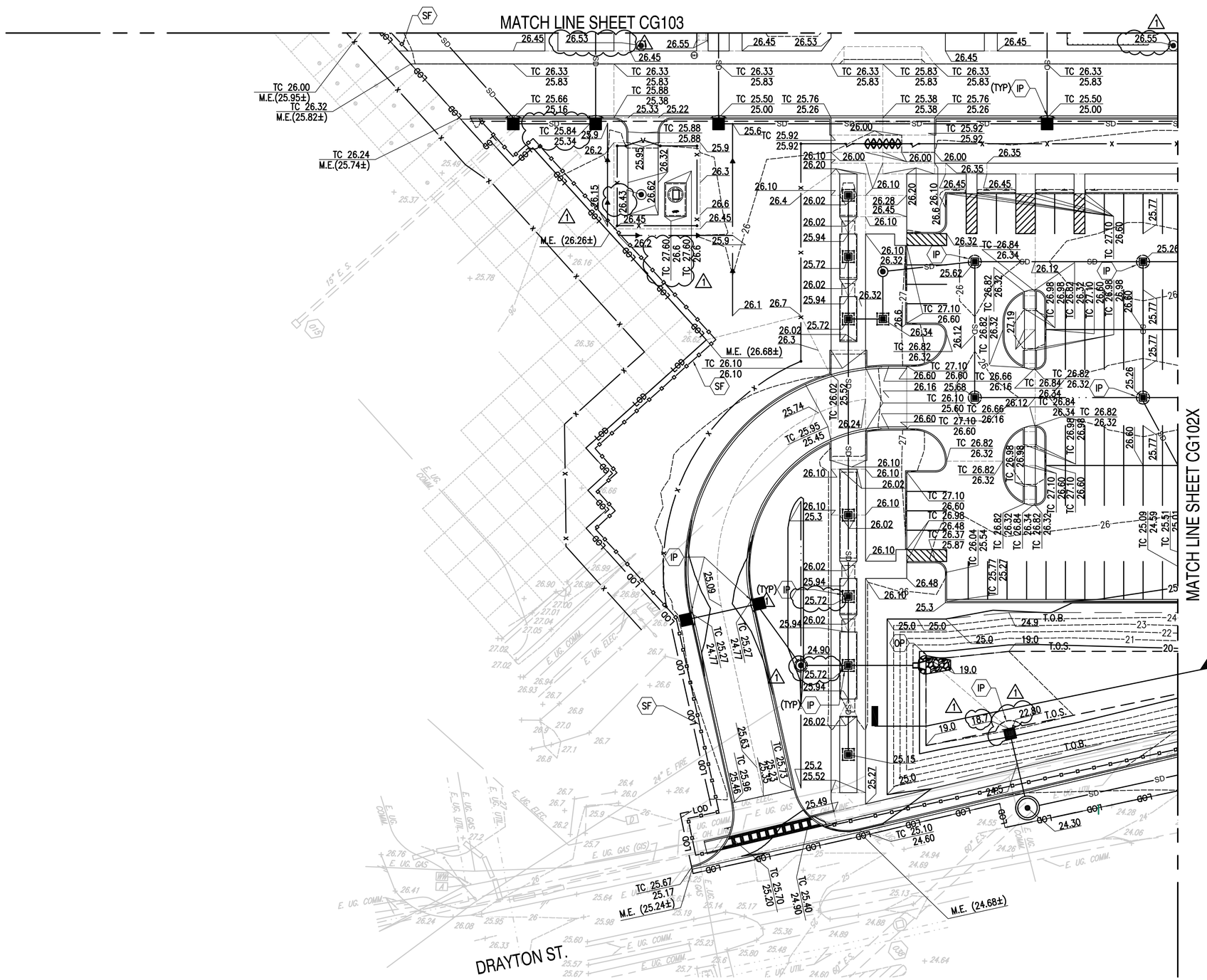
STORM SCHEDULE

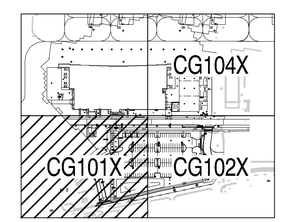
SCALE: NONE
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871430
SHEET 1335 OF 1412

CG002X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\200211\Amendment 01-16-26\@BLDG-P475-1363603-CG002X - Volume 6.dwg LAYOUT NAME: CG002X PLOTTED: Tuesday, January 20, 2026 - 4:21pm USER: mtle





KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

E & S CONTROL MEASURE KEY NOTES

IP – INLET PROTECTION (REFER TO SHEETS C-503, C-504)

SF – SILT FENCE (REFER TO DETAIL C-506/B1)

OP – OUTLET PROTECTION (REFER TO DETAIL C-505/A1)

SHEET NOTES:

1. REFER TO SHEETS CG105X TO CG108X FOR STORMWATER DRAINAGE PLANS AND KEY NOTES.
2. REFER TO C-501 FOR GENERAL EROSION CONTROL NOTES.
3. REFER TO SHEET C-012 AND C-013 FOR SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES AND LEGEND.

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 01/13/23 ANNALEE BAMFORTH

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW	CAD	CHK	ALB

PM/DM	KTB/RLH
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

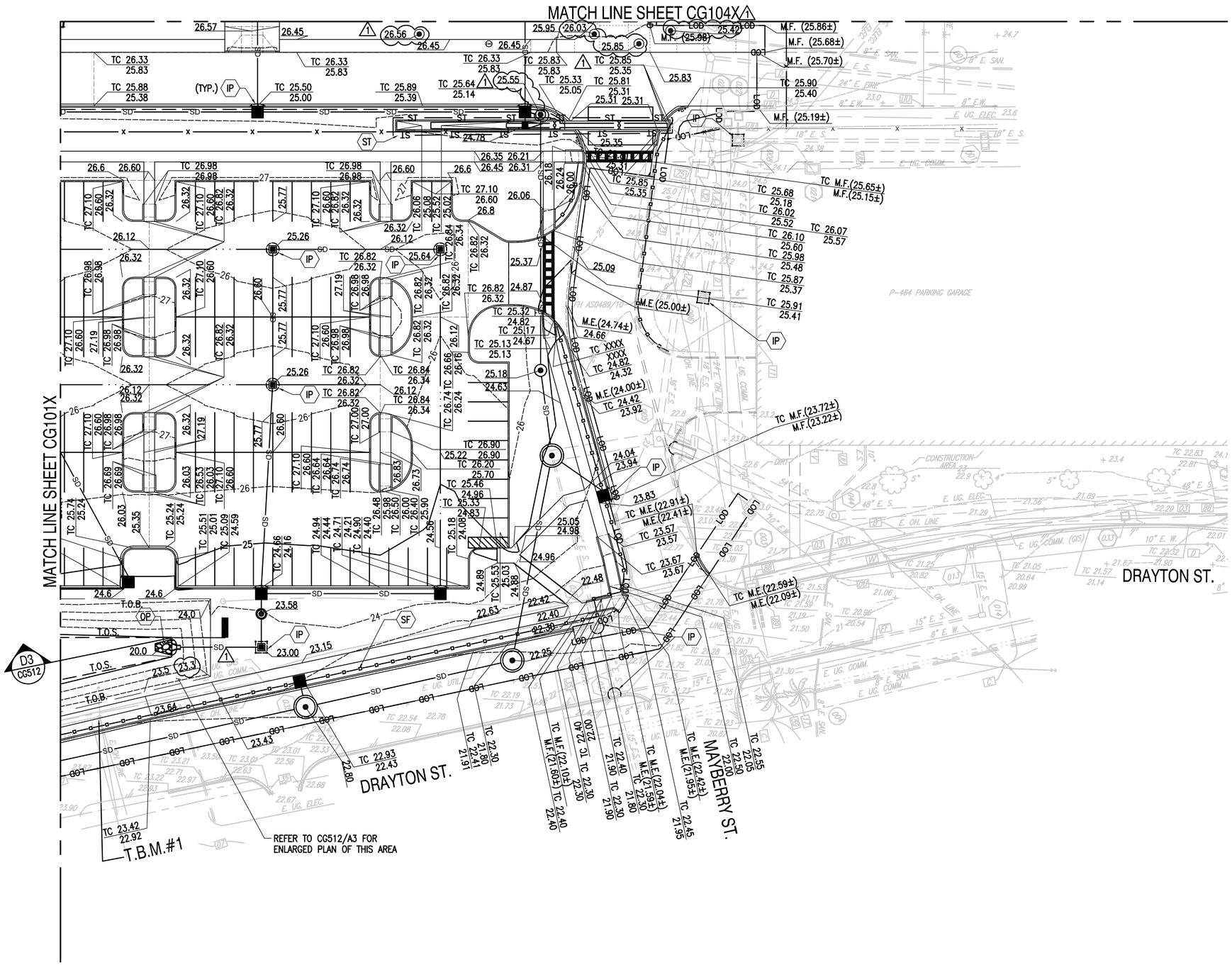
GRADING AND EROSION CONTROL PLAN

SCALE:	GRAPHIC
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871431
SHEET	1336 OF 1412

CG101X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CG101X - Volume 6.dwg LAYOUT NAME: CG101X PLOTTED: Tuesday, January 20, 2026 - 4:21pm USER: mlw



E & S CONTROL MEASURE KEY NOTES

IP – INLET PROTECTION (REFER TO SHEETS C-503, C-504)

SF – SILT FENCE (REFER TO DETAIL C-506/B1)

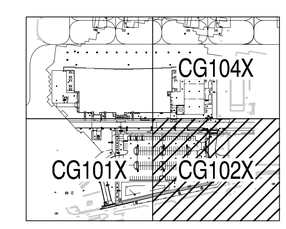
OP – OUTLET PROTECTION (REFER TO DETAIL C-505/A1)

ST – SEDIMENT TUBE (REFER TO DETAIL C-502/A4)

SHEET NOTES:

1. REFER TO SHEETS CG105X TO CG108X FOR STORMWATER DRAINAGE PLANS AND KEY NOTES.
2. REFER TO C-501 FOR GENERAL EROSION CONTROL NOTES.
3. REFER TO SHEET C-012 AND C-013 FOR SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES AND LEGEND.

SOUTH CAROLINA STATE PLANE



KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT MOD P00006 AND MOD P00007	01/16/2026	
	MOD P00005	10/2025	
		05/2023	

NAVFAC

SOUTH CAROLINA ANNALEE BAMFORTH No. 23067 01/13/23 SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES CAB | DRW CAD | CHK ALB

PM/DM KTB/RLH

BRANCH MANAGER DLB

CHIEF ENG/ARCH EJA

FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA
DC-CORE
MCAS BEAUFORT BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

GRADING AND EROSION CONTROL PLAN

SCALE: GRAPHIC

EPROJECT NO.: 1363603

CONSTR. CONTR. NO.

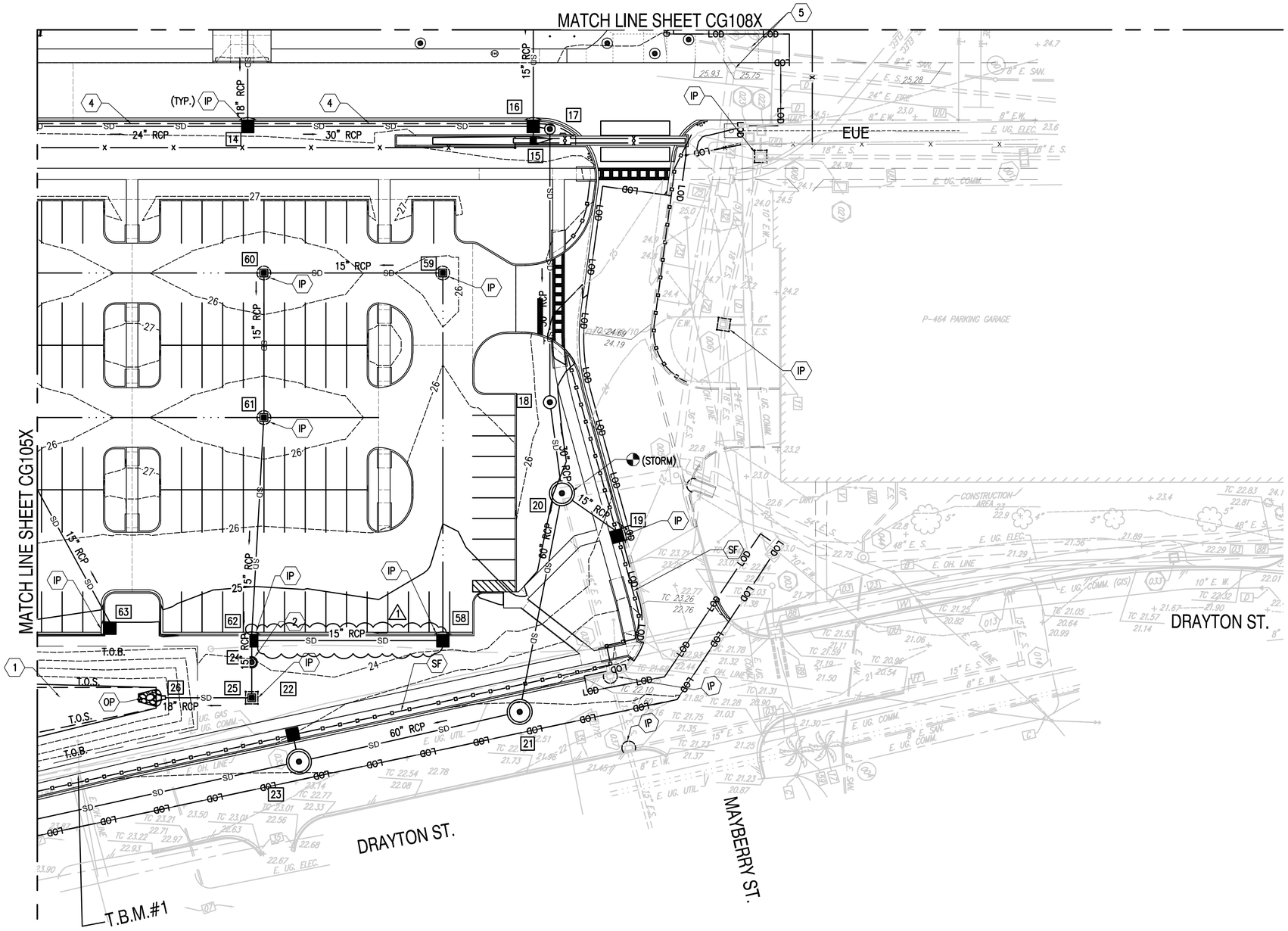
NAVFAC DRAWING NO. 12871432

SHEET 1337 OF 1412

CG102X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CG102X - Volume 6.dwg LAYOUT NAME: CG102X PLOTTED: Tuesday, January 20, 2026 - 4:21pm USER: mtle



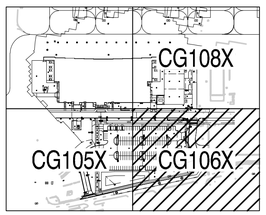
STORMWATER KEY NOTES (THIS SHEET ONLY)

1. DRY DETENTION AREA (REFER TO CG512)
2. HYDRODYNAMIC MANUFACTURED TREATMENT DEVICE (MTD) (REFER TO DETAIL CG507/A1)
3. NOT USED
4. 6-INCH SUBDRAINAGE PIPE (REFER TO DETAIL CS501/A3)
5. ADJUST RIM TO FINISH GRADE

SHEET NOTES:

1. REFER TO SHEETS CG001 AND CG002 FOR STORM SCHEDULES AND STRUCTURE DETAILS.
2. REFER TO CG702 FOR OVERALL DRAINAGE PLAN.
3. REFER TO C-501 FOR GENERAL EROSION CONTROL NOTES.
4. REFER TO CG101X TO CG104X FOR EROSION CONTROL MEASURE KEY NOTES.
5. REFER TO SHEET C-012 AND C-013 FOR SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES AND LEGEND.

SOUTH CAROLINA STATE PLANE



KEY PLAN

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 ANNA LEE BAMFORTH 01/13/23

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED FOR COMMANDER NAVFAC 11/26/2025

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW	CAD	CHK	ALB
PM/DM	KTB/RLH				
BRANCH MANAGER	DLB				
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	DSN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
DC CODE NORFOLK, VA

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

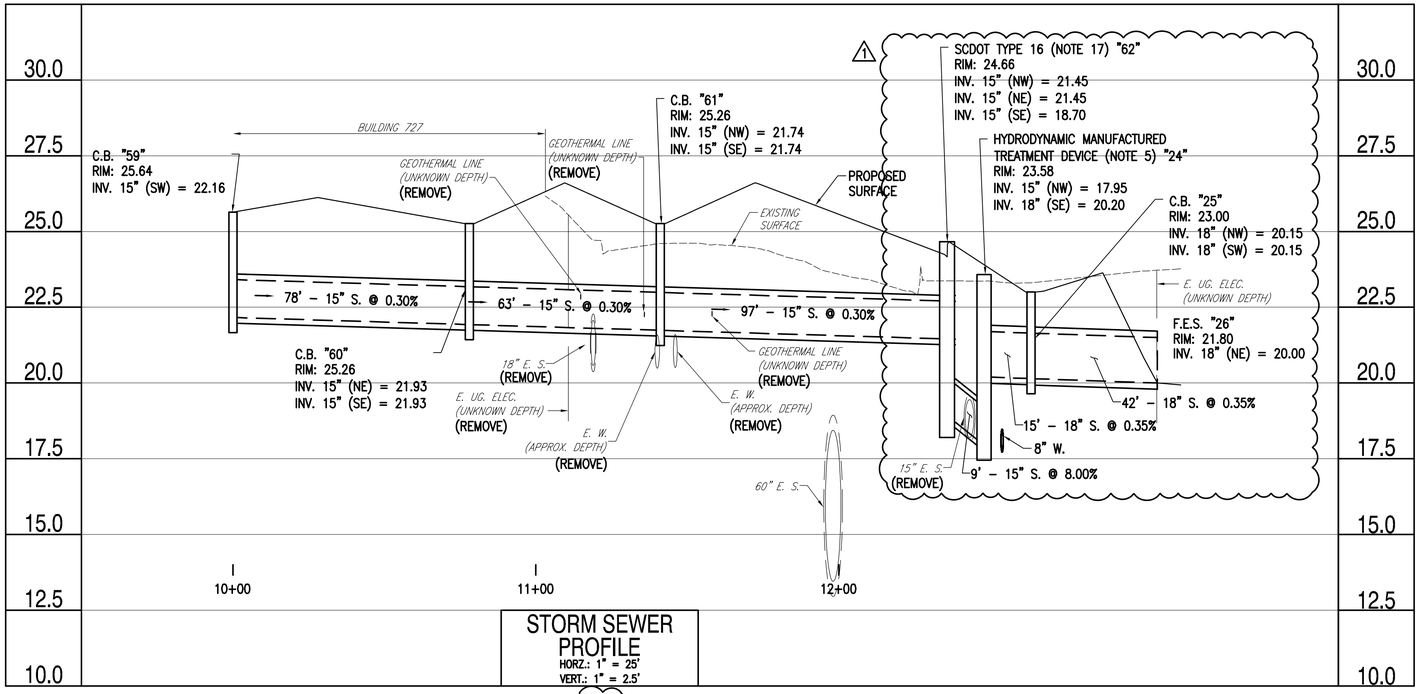
STORM DRAINAGE PLAN

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871435
SHEET 1340 OF 1412

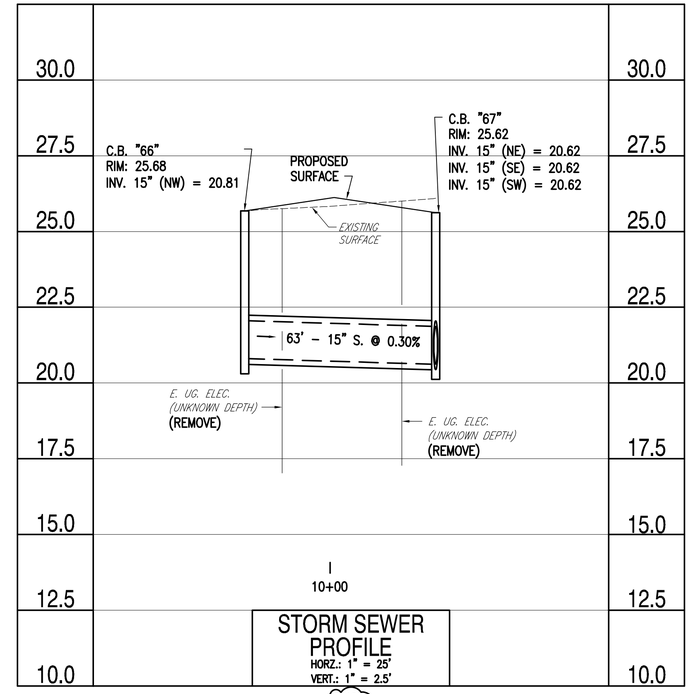
CG106X

DRAWFORM REVISION: 25 AUGUST 2020

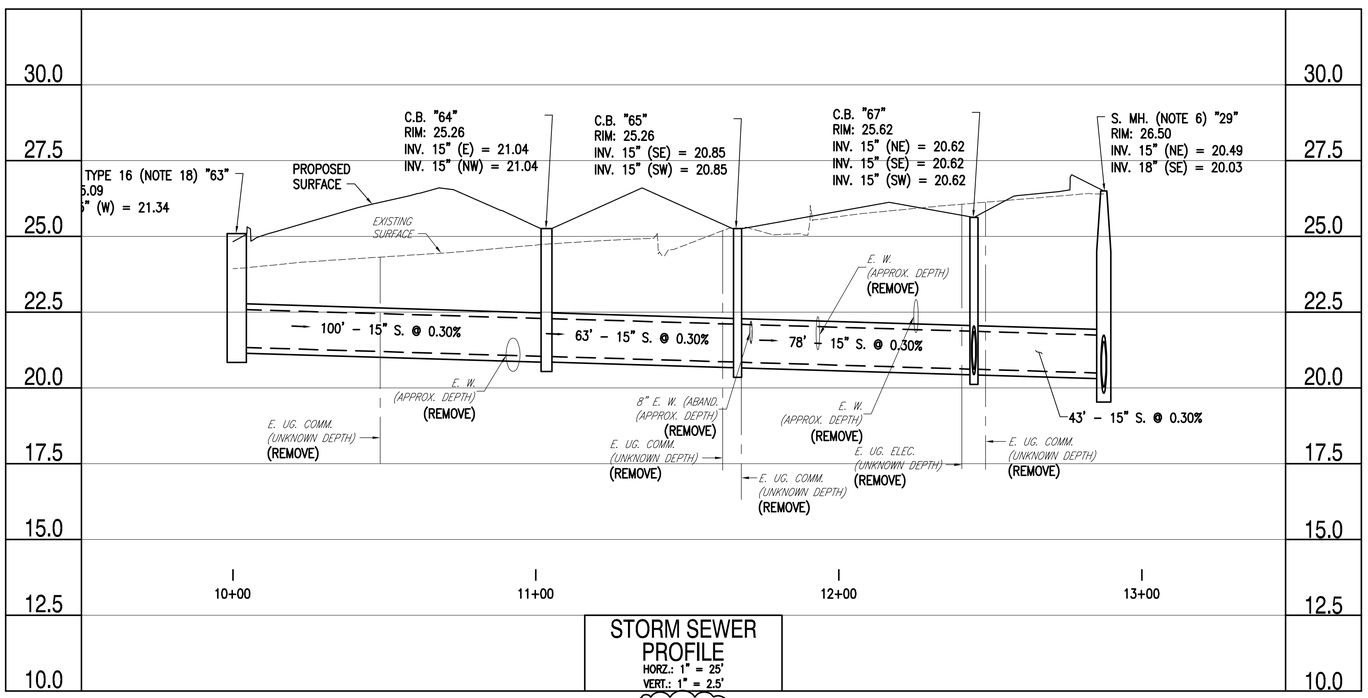
FILE NAME: K:\jobs\200211\Amendment 01-16-26\@BLDG-P475-1363603-CG106X - Volume 6.dwg LAYOUT NAME: CG106X PLOTTED: Tuesday, January 20, 2026 - 4:22pm USER: mtw



STORM SEWER PROFILE
HORZ.: 1" = 25'
VERT.: 1" = 2.5'
CG106X 1



STORM SEWER PROFILE
HORZ.: 1" = 25'
VERT.: 1" = 2.5'
CG105X 1



STORM SEWER PROFILE
HORZ.: 1" = 25'
VERT.: 1" = 2.5'
CG105X, CG106X 1

NOTES:

1. REFER TO SHEET CG002 FOR STORM STRUCTURE DATA NOTES.

GRAPHIC SCALE

HORZIONTAL 1" = 25' — 0 25 50' 75' 100'

VERTICAL 1" = 2.5' — 0 2.5' 5.0' 7.5' 10.0'

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA REGISTERED No. 23067 01/13/23 ANNA LEE BAMFORTH

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW CAD	CHK ALB
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA

DC CORE
MCAS BEAUFORT

BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

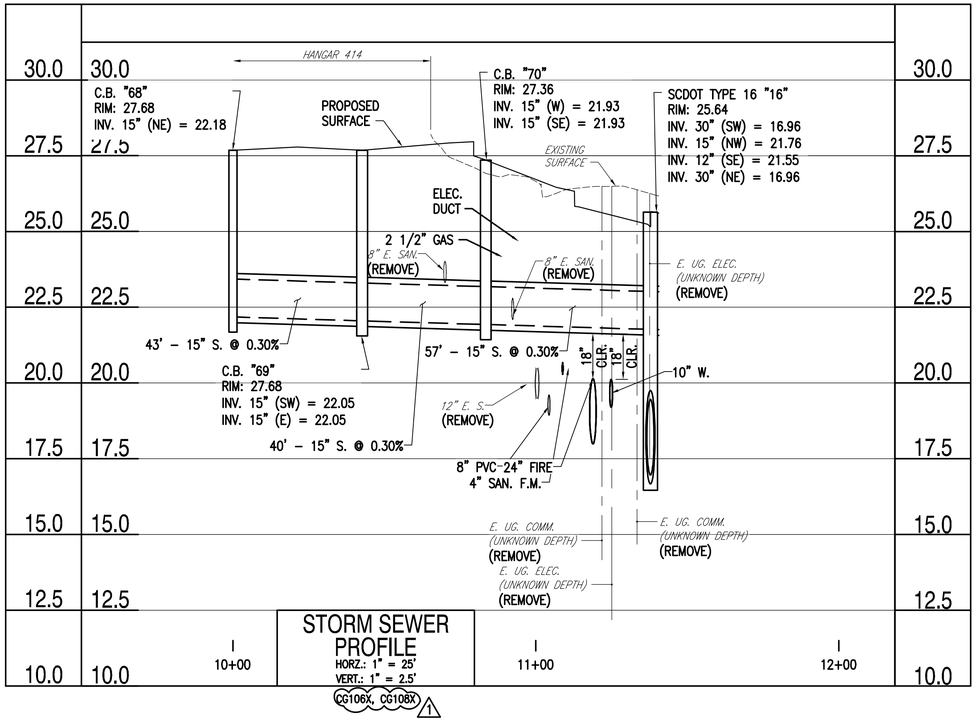
STORM SEWER PROFILES

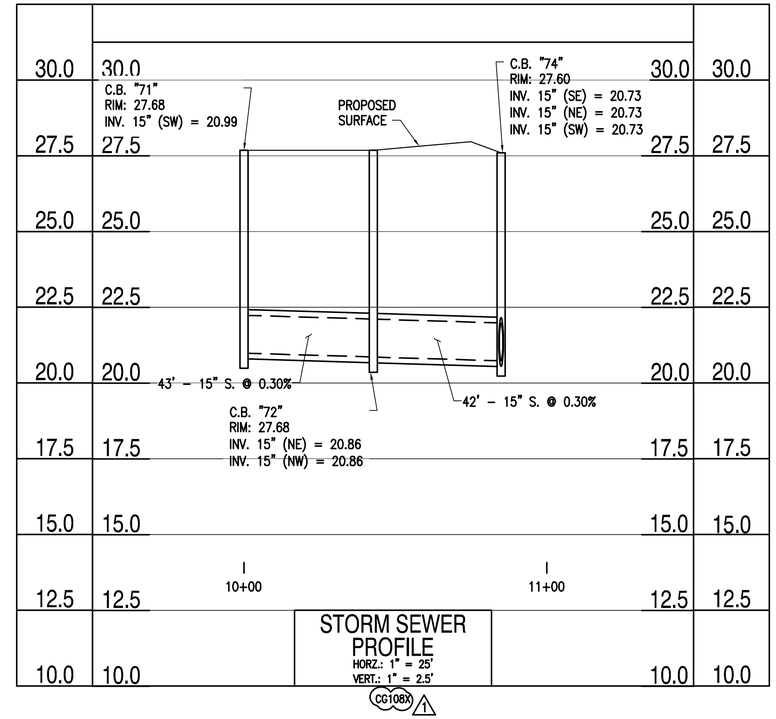
SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871437
SHEET 1342 OF 1412

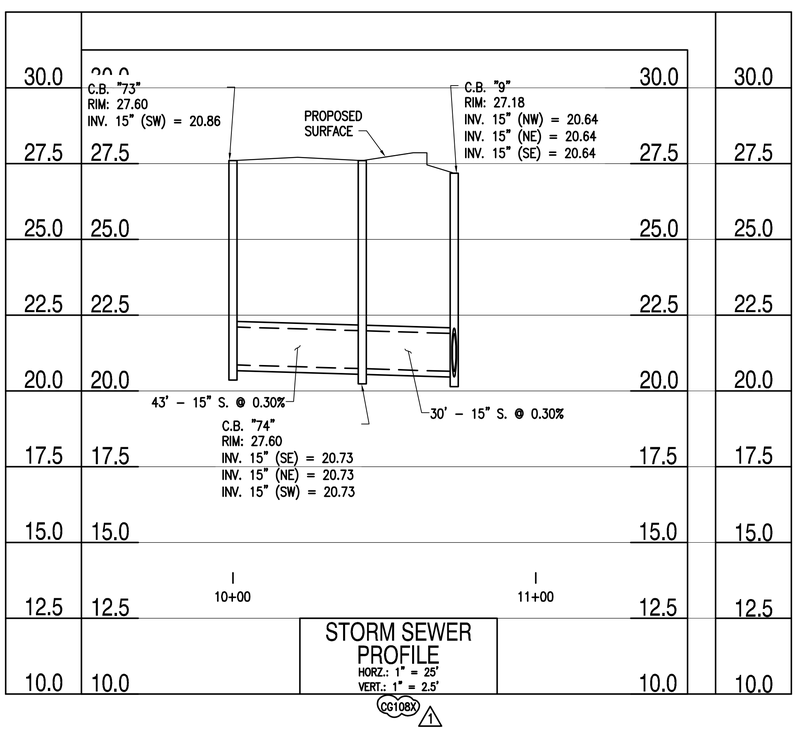
CG301X

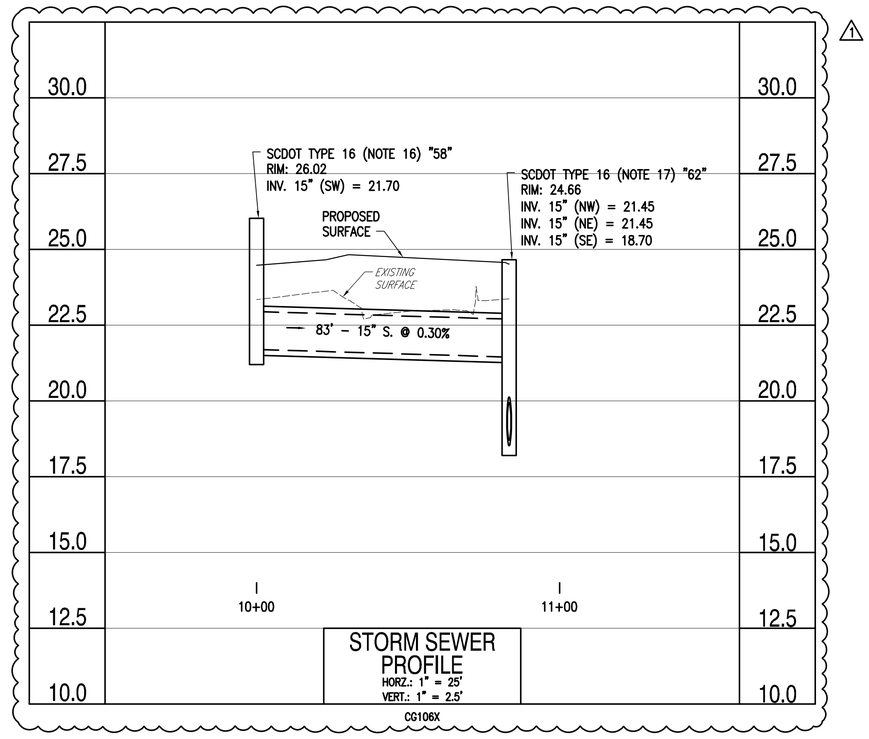
DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CG301X - Volume 6.dwg LAYOUT NAME: CG301X PLOTTED: Tuesday, January 20, 2026 - 4:22pm USER: mlw









NOTES:

1. REFER TO SHEET CG002 FOR STORM STRUCTURE DATA NOTES.

GRAPHIC SCALE

HORZIONTAL 1" = 25' — 0, 25, 50', 75', 100'

VERTICAL 1" = 2.5' — 0, 2.5', 5.0', 7.5', 10.0'

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 AMY LEE BAMFORTH 01/13/23

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	CAB	DRW CAD	CHK ALB
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA

DC CORE

MCAS BEAUFORT

BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

STORM SEWER PROFILES

SCALE: GRAPHIC

EPROJECT NO.: 1363603

CONSTR. CONTR. NO.

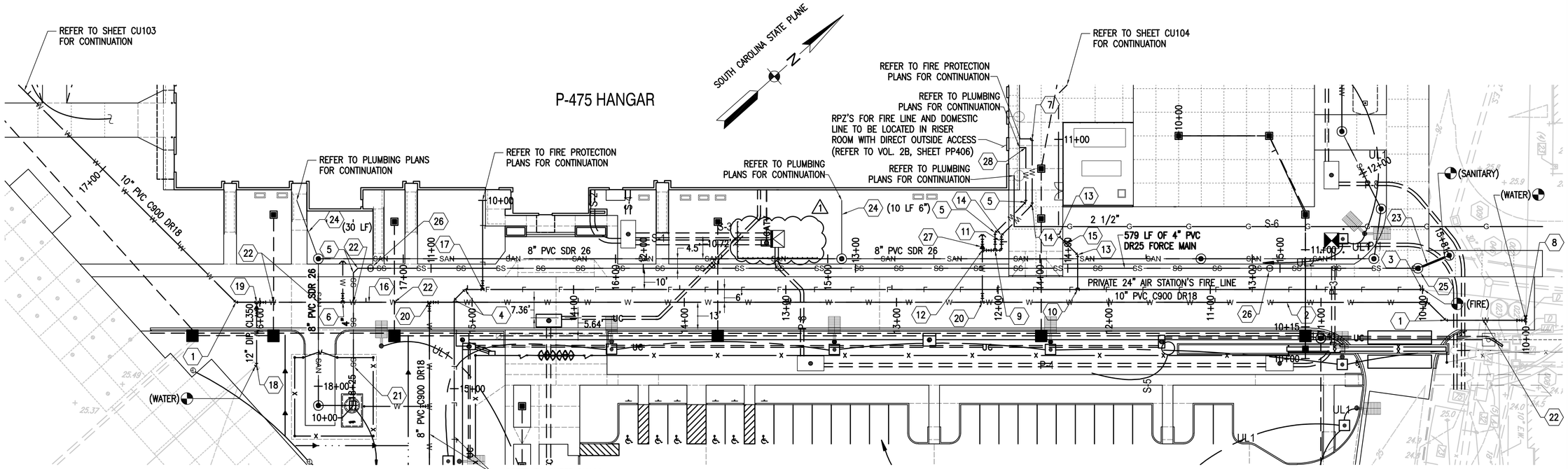
NAVFAC DRAWING NO. 12871438

SHEET 1343 OF 1412

CG302X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\2022\Amendment 01-16-26\BLDG-P475-1363603-CG302X - Volume 6.dwg LAYOUT NAME: CG302X PLOTTED: Tuesday, January 20, 2026 - 4:23pm USER: mlw



COMPOSITE UTILITY PLAN

NEW WORK KEY NOTES (THIS SHEET ONLY)

1. 10" – 45° BEND W/ RESTRAINED JOINTS AND MARKER
2. 10" X 2" TAPPING SADDLE 2" VALVE W/ BOX 2" W. (1)
3. ✱ 24" – 11 1/4° BEND W/ RESTRAINED JOINTS
4. ✱ 24" – 45° BEND W/ RESTRAINED JOINTS
5. 4" – 45° BEND W/ RESTRAINED JOINTS AND MARKER
6. 10" X 6" TEE W/ RESTRAINED JOINTS 6" VALVE W/ BOX 19'± L.F. PVC C900 DR18
7. 6" – 90° BEND W/ RESTRAINED JOINTS AND MARKER
8. 10" X 10" TEE W/ RESTRAINED JOINTS 10" VALVE W/ BOX
9. 6" X 4" TEE W/ RESTRAINED JOINTS 4" VALVE W/ BOX
10. 24" X 8" TEE W/ RESTRAINED JOINTS
11. 6" – 90° BEND W/ RESTRAINED JOINTS 6" VALVE W/ LOCKING LID BOX 6" POST INDICATOR VALVE. PROVIDE SIGNAGE TO INDICATE WHICH BUILDING IT SERVES.
12. 8" X 6" TEE W/ RESTRAINED JOINTS 6" VALVE W/ BOX
13. 8" – 45° BEND W/ RESTRAINED JOINTS
14. ✱ 6" – 45° BEND W/ RESTRAINED JOINTS
15. 8" POST INDICATOR VALVE PROVIDE SIGNAGE TO INDICATE WHICH BUILDING IT SERVES.
16. 10" X 1" TAPPING SADDLE 1" VALVE W/ BOX 32 LF OF 1" HPDE SDR11 WATER METER YARD HYDRANT (1)
17. ✱ 24" X 16" TEE W/ RESTRAINED JOINTS 16" VALVE W/ BOX 16" W.
18. 12" – 45° BEND W/ RESTRAINED JOINTS AND MARKER. CONNECT TO EXISTING 12" W.
19. 10" X 10" TEE W/ RESTRAINED JOINTS 10" GATE VALVE W/ BOX 10" X 12" REDUCER W/ RESTRAINED JOINTS AND MARKER 12" GATE VALVE W/ BOX
20. 10" X 8" TEE W/ RESTRAINED JOINTS 8" VALVE W/ BOX
21. 4" PLUG VALVE. REFER TO BJWSA DETAILS S–13A AND S–13B.
22. 18 L.F. OF 10" DIP CL350 CENTERED ON CROSSING
23. 16 L.F. OF 8" PVC SDR26 @ MAX SLOPE OF 0.70% SLOPE
24. 6" PVC SDR26 AT MIIN. 1.00% SLOPE 4" DUEL SWEEP CO. AT BUILDING (TYP.)
25. CONTROL MANHOLE (REFER TO DETAIL CU503/C3)
26. AIR VENT
27. 8" X 6" REDUCER 6" VALVE W/ BOX 7'± L.F. 6" DI CL 350 W/ FIRE HYDRANT ASSEMBLY
28. 4" – 90° BEND W/ RESTRAINED JOINTS

WATER CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
W1	231293.23	2084725.78
W2	231290.99	2084723.78
W3	231265.06	2084700.70
W4	231264.36	2084688.72
W5	231214.76	2084644.57
W6	230880.41	2084412.53
W7	231107.61	2084549.18
W8	231123.90	2084530.88
W9	231128.38	2084534.87
W10	230915.23	2084377.93
W11	230912.99	2084375.94
W12	230882.48	2084348.78
W13	230854.50	2084323.90
W14	230852.18	2084321.81
W15	230844.86	2084315.29
W16	230836.24	2084166.96
W17	230843.92	2084167.20
W18	230854.05	2084149.96
W19	230918.63	2084074.41
W20	230940.11	2084050.28
W21	230944.40	2084045.46
W22	230947.39	2084045.28
W23	230974.86	2084069.73
W24	230978.49	2084072.97
W25	231339.44	2084394.28
W26	231429.22	2084474.19
W27	231429.74	2084483.18

WATER CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
W28	231413.36	2084501.58
W29	231411.70	2084503.45
W30	231410.03	2084505.31
W31	231410.40	2084511.64
W32	231266.33	2084682.44
W33	231145.13	2084574.55
W34	230935.71	2084388.13
W35	230929.47	2084382.58
W36	230922.41	2084382.99
W37	230733.62	2084595.06
W38	230731.63	2084597.30
W39	230910.99	2084378.18
W40	230785.90	2084518.71
W41	230769.17	2084566.81
W42	230788.69	2084607.13
W43	230792.05	2084610.12
W44	230966.59	2084765.50
W45	231050.47	2084844.68
W46	231054.51	2084860.54
W47	231166.47	2084866.14
W48	231163.93	2084866.51
W49	231093.87	2084884.74
W50	231057.19	2084862.95
W51	231055.25	2084863.45
W52	231048.57	2084865.15
W53	230937.71	2084385.89
W54	230963.62	2084356.79

WATER CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
W55	230923.23	2084035.26
W56	230926.29	2084037.98
W57	230928.01	2084039.51
W58	231156.00	2084562.35
W59	231155.56	2084554.81
W60	231155.26	2084549.64
W61	231199.83	2084499.57
W62	231227.00	2084497.99
W63	231252.34	2084469.53
W64	231259.40	2084469.12
W65	231133.28	2084533.88
W66	231135.27	2084531.64
W67	231155.74	2084530.45
W68	231176.33	2084507.32
W69	231130.62	2084536.87
W70	231171.40	2084508.36
W71	230850.60	2084323.58
W72	230848.78	2084325.63
W73	230832.56	2084343.85
W74	230985.56	2084807.70
W75	231133.86	2084528.72
W76	231154.33	2084527.53

SANITARY FORCE MAIN CONTROL POINTS

DESCRIPTION	NORTHING	EASTING
FM1	230895.44	2084341.74
FM2	230898.44	2084341.57

SHEET NOTES

1. REFER TO SHEET CU001 FOR RESTRAINED JOINTS AND SANITARY SCHEDULES. (1)
2. NOTES SHOWN WITH ✱ ARE NOT OWNED OR MAINTAINED BY BJWSA.
3. REFER TO SHEET CU001 FOR SANITARY SEWER DATA NOTES AS (#).
4. PROVIDE DUCTILE IRON (DI) WATER (W) LINE AS SPECIFIED WHERE INDICATED. PROVIDE PVC C900 DR 18 WATER LINE AS SPECIFIED WHERE INDICATED.
5. PROVIDE PVC SDR 26 FOAM BYPASS AS SPECIFIED WHERE INDICATED.
6. REFER TO SHEETS CU101 THROUGH CU104 FOR UTILITY PIPE SIZES AND STRUCTURE DESIGNATIONS.
7. ALL VALVES ARE GATE VALVES UNLESS NOTED OTHERWISE.
8. PROVIDE MINIMUM CLEARANCE REQUIRED BY BJWSA;
   10' HORIZONTAL WATER AND GRAVITY SEWER
   3' HORIZONTAL WATER AND FORCE MAIN / STORM
   5' HORIZONTAL WATER AND ELECTRICAL / GAS
9. PROVIDE DUCTILE IRON 18 FT. PIPE SECTION FOR WATER LINE, CENTERED ON CROSSING WITH OTHER UTILITY LINES.
10. REFER TO MS101X FOR GAS LINE INFORMATION.

GRAPHIC SCALE

1" = 25' 0 25' 50' 75' 100'

SYM	DESCRIPTION	DATE	APPR.
4	BY AMENDMENT	01/16/2026	
3	MOD P00006 AND MOD P00007	10/2025	
2	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 01/13/23 ANNALEE BAMFORTH

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES CAB | DRW CAD | CHK ALB

PM/DM KTB/RLH

BRANCH MANAGER DLB

CHIEF ENG/ARCH EJA

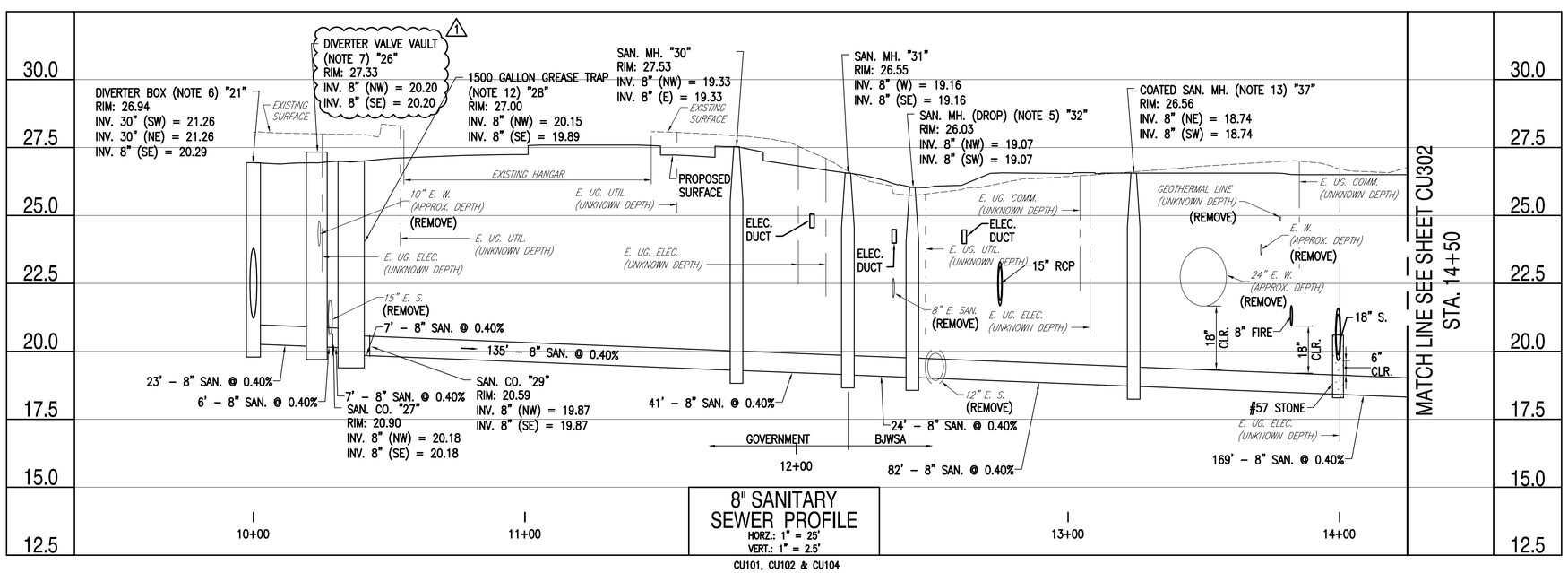
FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
COMPOSITE UTILITY PLAN

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871439
SHEET 1344 OF 1412
CU105X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\@BLDG-P475-1363603-CU105X - Volume 6.dwg LAYOUT NAME: CU105X PLOTTED: Tuesday, January 20, 2026 - 4:23pm USER: mlw



8" SANITARY SEWER PROFILE

HORZ.: 1" = 25'
VERT.: 1" = 2.5'

CU101, CU102 & CU104

NOTES:

1. REFER TO SHEET CU001 FOR SANITARY STRUCTURE DATA NOTES.
2. PROVIDE 6" ABSOLUTE MINIMUM CLEARANCE FOR UTILITY CROSSINGS AND #57 STONE. IF LESS THAN 6" MINIMUM, COORDINATE WITH BJWSA.

GRAPHIC SCALE

HORZIONTAL 1" = 25' — 0, 25, 50', 75', 100'

VERTICAL 1" = 2.5' — 0, 2.5', 5.0', 7.5', 10.0'

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT MOD P00006 AND MOD P00007	01/16/2026	
	MOD P00005	10/2025	
		05/2023	

NAVFAC

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23067 01/13/23 ANNA LEE BAMFORTH

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES CAB | DRW CAD | CHK ALB

PM/DM KTB/RLH

BRANCH MANAGER DLB

CHIEF ENG/ARCH EJA

FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA

DC CORE
MCAS BEAUFORT

BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

SANITARY FORCEMAIN & SANITARY SEWER PROFILES

SCALE: GRAPHIC

EPROJECT NO.: 1363603

CONSTR. CONTR. NO.

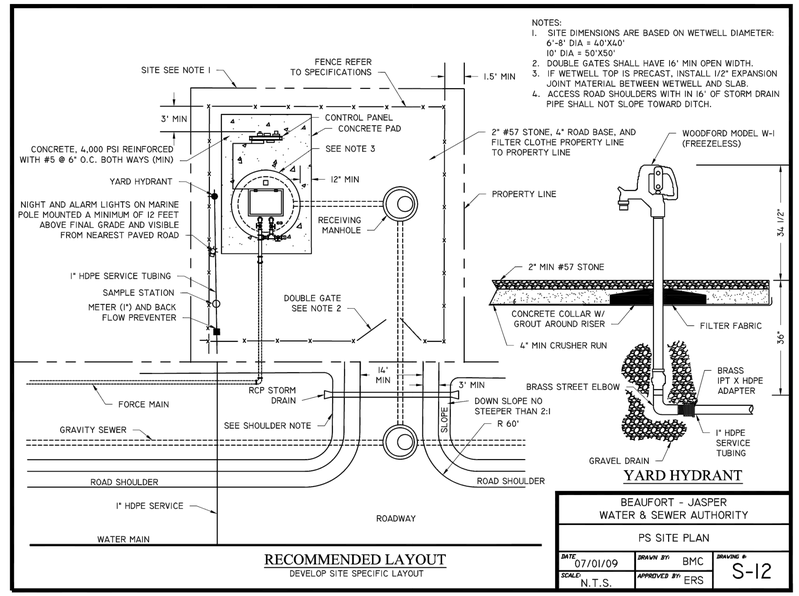
NAVFAC DRAWING NO.
12871440

SHEET 1345 OF 1412

CU301X

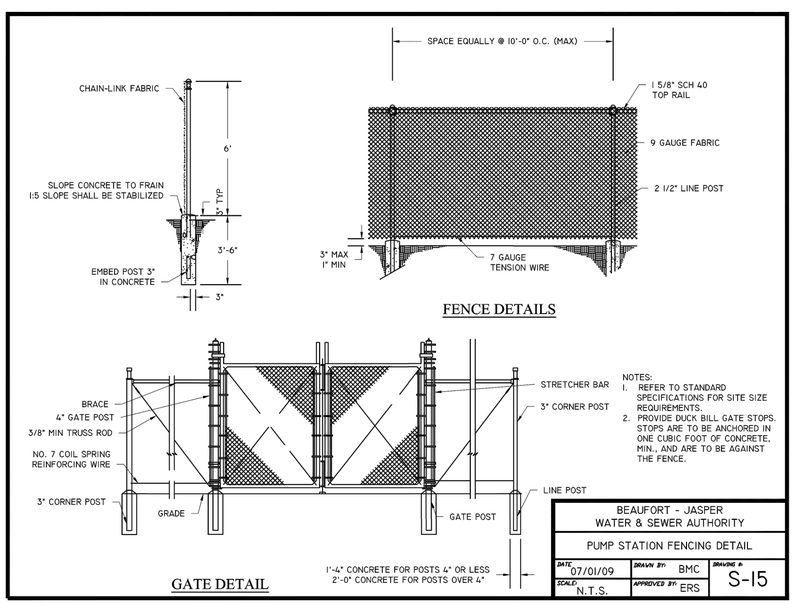
DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CU301X - Volume 6.dwg LAYOUT NAME: CU301X PLOTTED: Tuesday, January 20, 2026 - 4:23pm USER: mlw



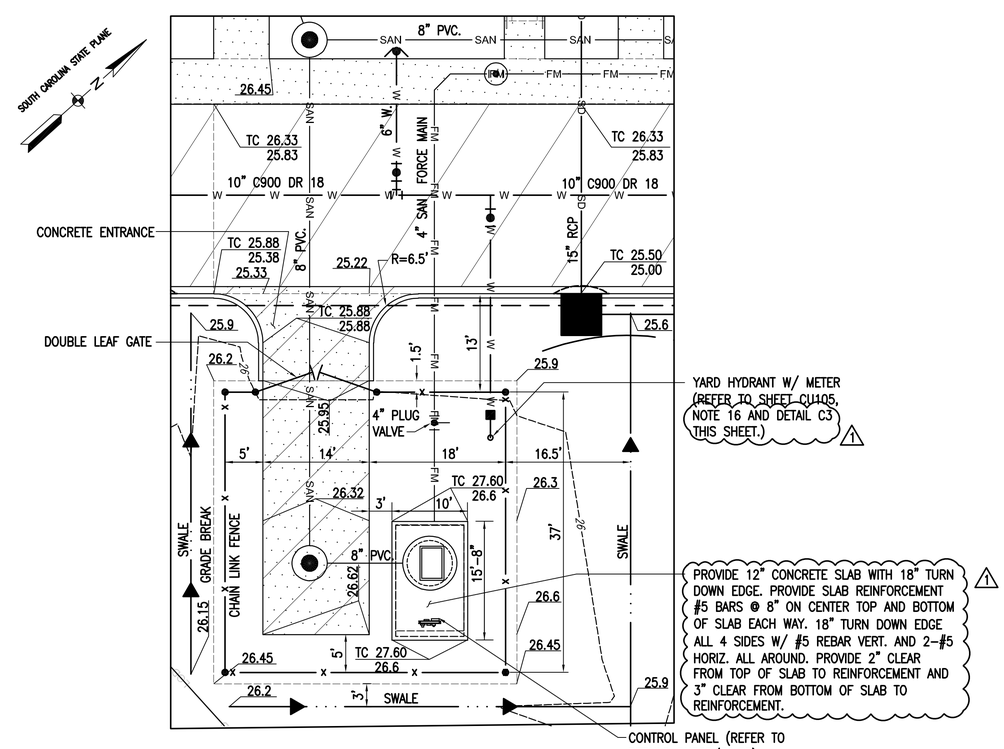
C3 PS SITE PLAN

BEAUFORT JASPER WATER & SEWER AUTHORITY DETAIL S-12
N.T.S.



A1 PUMP STATION FENCING DETAIL

BEAUFORT JASPER WATER & SEWER AUTHORITY DETAIL S-15
N.T.S.



A3 PUMP STATION SITE SPECIFIC LAYOUT

REFER TO SHEETS CS101X, CG101X AND CU105X FOR ADDITIONAL INFORMATION.
N.T.S.

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

SOUTH CAROLINA Annalee Bamford No. 23067 01/13/23 ANNALEE BAMFORTH SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

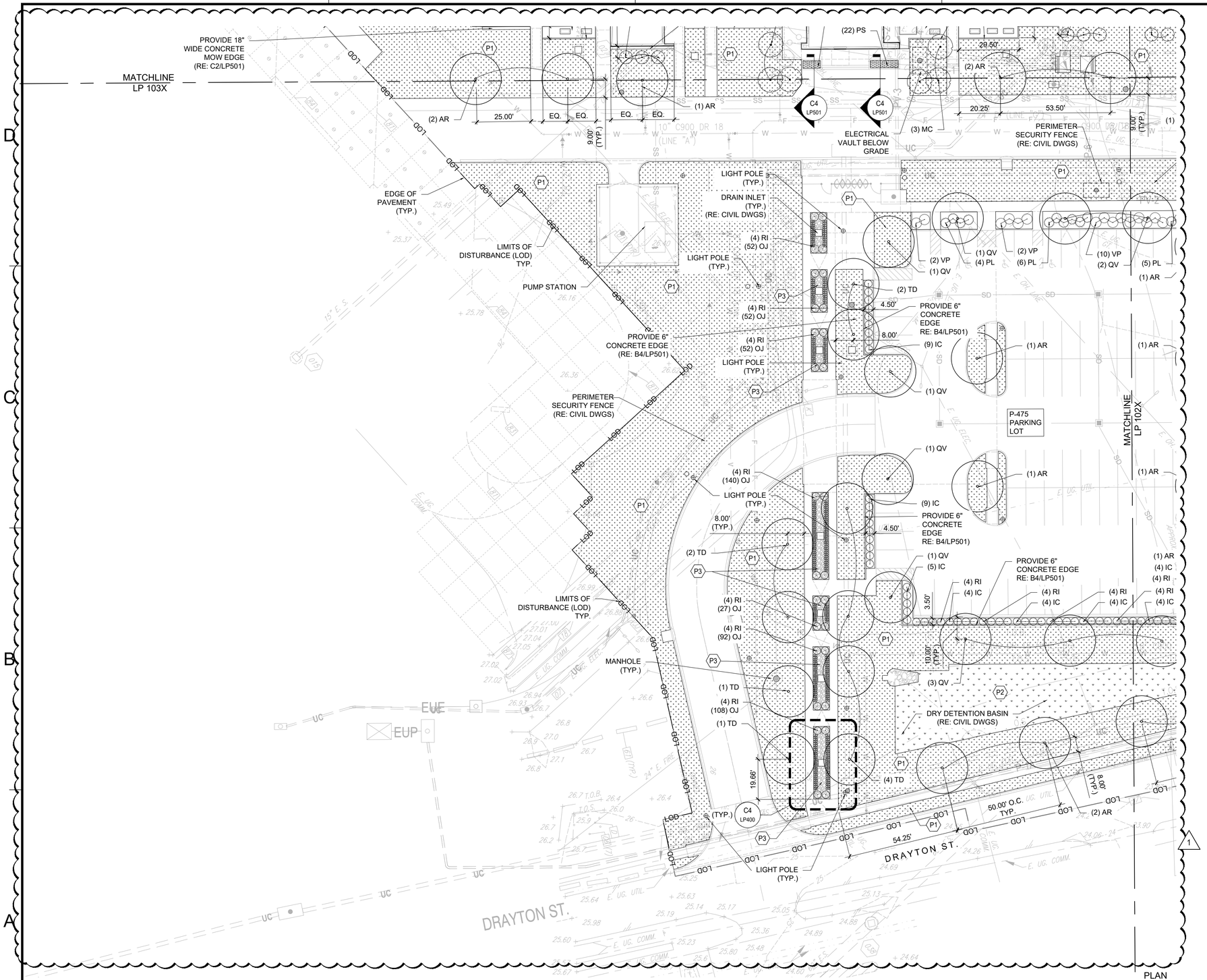
DES CAB	DRW CAD CHK ALB
PM/DM	KTB/RLH
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
BJWSA DETAILS

SCALE: NONE
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871442
SHEET 1347 OF 1412
CU510X

DRAWFORM REVISION: 25 AUGUST 2020

FILE NAME: K:\Jobs\20021\Amendment 01-16-26\BLDG-P475-1363603-CU510X - Volume 6.dwg LAYOUT NAME: CU510 PLOTTED: Tuesday, January 20, 2026 - 4:24pm USER: mlw



A1 LANDSCAPE PLANTING PLAN (BASE BID)

Scale: 1:25

0 12.5' 25' 50' 100' 150'

1"=25'-0" GRAPHIC SCALE

PLAN NORTH

TRUE N

GENERAL LANDSCAPE PLANTING NOTES:

1. THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF PLANT MATERIAL TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR. REFER TO THE FOLLOWING SPECIFICATIONS FOR SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK:
   - 1.1. **SECTION 320533 - LANDSCAPE ESTABLISHMENT**
   - 1.2. **SECTION 329223 - SODDING**
   - 1.3. **SECTION 329300 - EXTERIOR PLANTS**
2. REFER TO FULL PLANTING SCHEDULE ON SHEET LP600X FOR PLANT SPECIES, SIZES AND NOTES.
3. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
4. LOCATIONS OF ALL PLANT MATERIALS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO PLANTING.
5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE AND GRASS DISTURBED AREAS BACK TO ORIGINAL FINISHED GRADE ELEVATIONS, INCLUDING, EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.

LEGEND

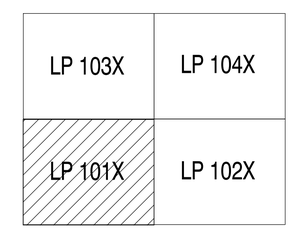
REFER TO SHEET LP 600X - LANDSCAPE PLANTING SCHEDULE FOR FULL PLANTING SCHEDULE.

SYM.	KEY	*BOTANICAL NAME*	COMMON NAME
	SHADE/STREET TREES		
	AR	*Acer rubrum 'dromondii'*	Swamp Red Maple
	TD	*Taxodium Distichum 'Mickelson'*	Shawnee Brave Bald Cyress
	QV	*Quercus virginiana 'Cathedral'*	Cathedral Live Oak
	ORNAMENTAL TREE		
	LIA	*Lagerstroemia indica 'Alba'*	White Crape Myrtle
	LIR	*Lagerstroemia indica 'Apapaho'*	Apapaho Crape Myrtle (Red)
	MC	*Myrica cerifera*	Wax Myrtle (Tree Form)
	EVERGREEN SHRUB		
	IC	*Ilex crenata 'Stokes'*	Stokes Japanese Holly
	PL	*Prunus laurocerausa*	Dwarf English Laurel
	RI	*Raphiolepis indica 'alba'*	White Indian Hawthorn
	DECIDUOUS SHRUB		
	VP	*Viburnum plicatum 'Summer Snowflake'*	Summer Snowflake Doublefile Viburnum
	PERENNIAL/GROUNDCOVER/VINE		
	PS	*Phlox subulata*	Creeping Phlox
	OJ	*Ophiopogon jaburan*	Mondo Grass

P1 — TURFGRASS SOD (TYPE 1)
- (RE: 329223 - SODDING)
- 4" TOPSOIL WITH 2" COMPOST TOP LAYER (RE: 329300-EXTERIOR PLANTS)

P2 — TURFGRASS SOD (TYPE 2)
- (RE: 329223 - SODDING)
- 4" TOPSOIL WITH 2" COMPOST TOP LAYER (RE: 329300-EXTERIOR PLANTS)

P3 — INERT MULCH MATERIAL "DECORATIVE ROCK"
- (RE: 329300-EXTERIOR PLANTS)



KEY PLAN

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT MOD P00006 AND MOD P00007 MOD P00005	01/16/2026	

NAVFAC

STATE OF MISSOURI — BOB G. BUSHYHEAD — NUMBER LA-2002003007 — 01/13/2023 — LANDSCAPE ARCHITECT — SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED — FOR COMMANDER NAVFAC — 1/26/2026

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES BDR	DRW RWB	CHK BDG	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND — NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC — NORFOLK, VA — DC CORE

MCAS BEAUFORT — BEAUFORT, SC

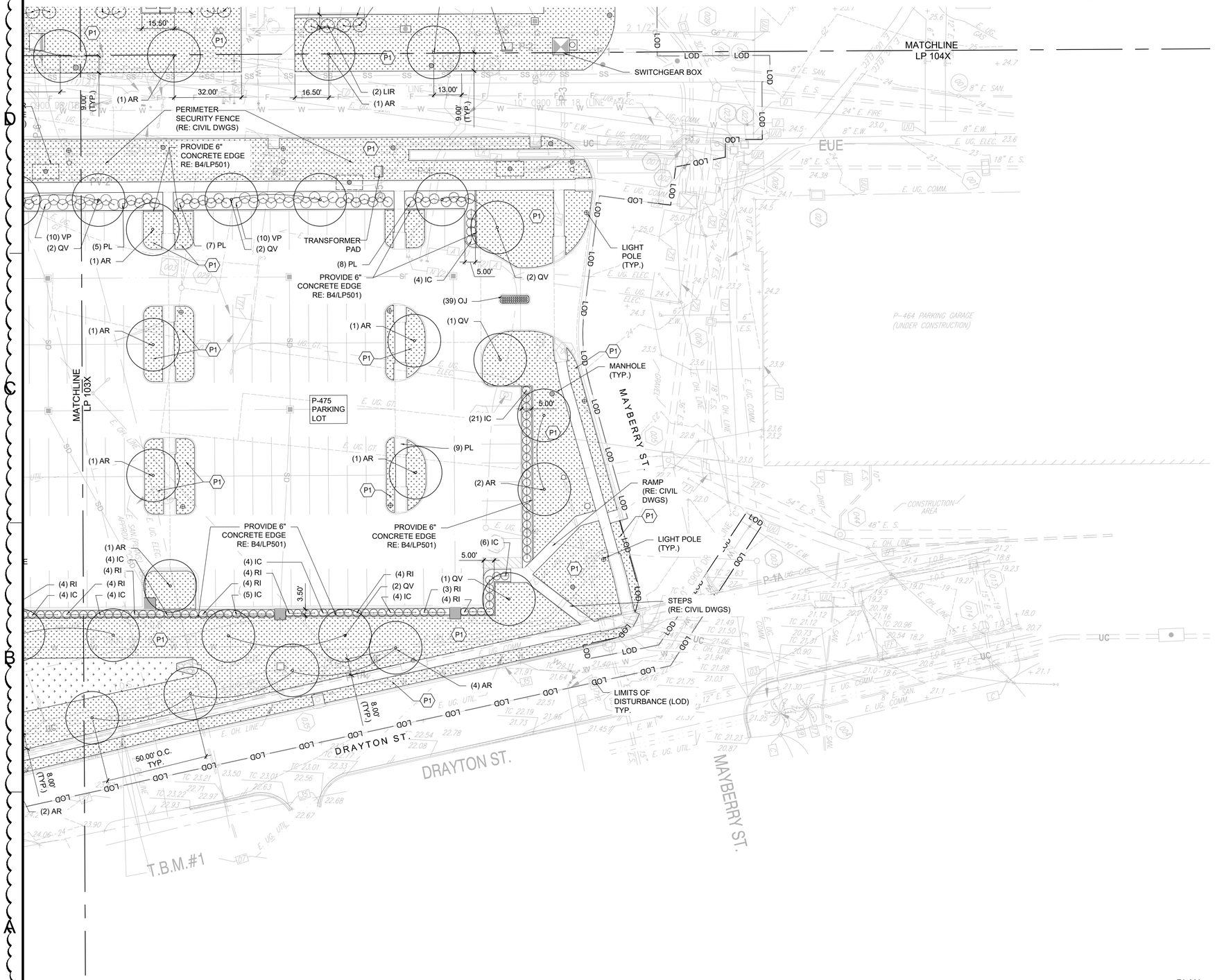
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

LANDSCAPE PLAN

SCALE:	GRAPHIC
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871447
SHEET 1352 OF 1412	

LP101X

DRAWFORM REVISION: 25 AUGUST 2020



GENERAL LANDSCAPE PLANTING NOTES:

1. THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF PLANT MATERIAL TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR. REFER TO THE FOLLOWING SPECIFICATIONS FOR SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK:
   - 1.1. **SECTION 320533 - LANDSCAPE ESTABLISHMENT**
   - 1.2. **SECTION 329223 - SODDING**
   - 1.3. **SECTION 329300 - EXTERIOR PLANTS**
2. REFER TO FULL PLANTING SCHEDULE ON SHEET LP600X FOR PLANT SPECIES, SIZES AND NOTES.
3. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
4. LOCATIONS OF ALL PLANT MATERIALS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO PLANTING.
5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE AND GRASS DISTURBED AREAS BACK TO ORIGINAL FINISHED GRADE ELEVATIONS, INCLUDING, EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.

LEGEND

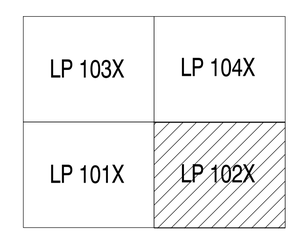
REFER TO SHEET LP600X- LANDSCAPE SCEDULE FOR FULL PLANTING SCHEDULE.

SYM.	KEY	*BOTANICAL NAME*	COMMON NAME
	SHADE/STREET TREES		
	AR	*Acer rubrum 'dromondii'*	Swamp Red Maple
	TD	*Taxodium Distichum 'Mickelson'*	Shawnee Brave Bald Cyress
	QV	*Quercus virginiana 'Cathedral'*	Cathedral Live Oak
	ORNAMENTAL TREE		
	LIA	*Lagerstroemia indica 'Alba'*	White Crape Myrtle
	LIR	*Lagerstroemia indica 'Apapaho'*	Apapaho Crape Myrtle (Red)
	MC	*Myrica cerifera*	Wax Myrtle (Tree Form)
	EVERGREEN SHRUB		
	IC	*Ilex crenata 'Stokes'*	Stokes Japanese Holly
	PL	*Prunus laurocerasus*	Dwarf English Laurel
	RI	*Raphiolepis indica 'alba'*	White Indian Hawthorn
	DECIDUOUS SHRUB		
	VP	*Viburnum plicatum 'Summer Snowflake'*	Summer Snowflake Doublefile Viburnum
	PERENNIAL/GROUNDCOVER/VINE		
	PS	*Phlox subulata*	Creeping Phlox
	OJ	*Ophiopogon jaburan*	Mondo Grass

P1 — TURFGRASS SOD (TYPE 1)
- (RE: 329223 - SODDING)
- 4" TOPSOIL WITH 2" COMPOST TOP LAYER (RE: 329300-EXTERIOR PLANTS)

P2 — TURFGRASS SOD (TYPE 2)
- (RE: 329223 - SODDING)
- 4" TOPSOIL WITH 2" COMPOST TOP LAYER (RE: 329300-EXTERIOR PLANTS)

P3 — INERT MULCH MATERIAL "DECORATIVE ROCK"
- (RE: 329300-EXTERIOR PLANTS)



KEY PLAN

A1 LANDSCAPE PLANTING PLAN (BASE BID)

Scale: 1:25

0 12.5' 25' 50' 100' 150'
1"=25'-0" GRAPHIC SCALE

PLAN NORTH
TRUE N

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT MOD P00006 AND MOD P00007	01/16/2026	
	MOD P00005		

NAVFAC

STATE OF MISSOURI
BOB G. BUSHYHEAD
NUMBER LA-2002003007
01/13/2023
LANDSCAPE ARCHITECT
SEAL

BAMFORTH ENGINEERS + SURVEYORS
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES BDR	DRW RWB	CHK BDG	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

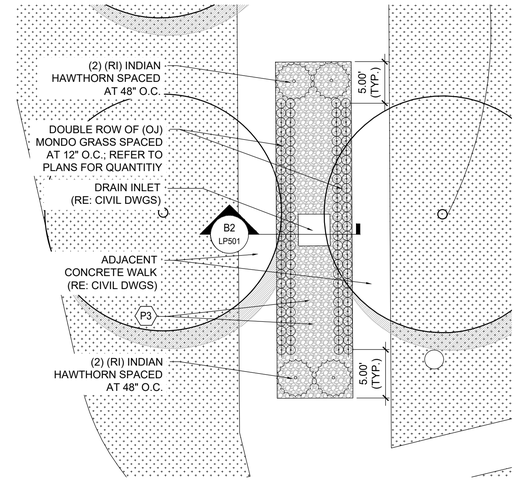
LANDSCAPE PLAN

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871448
SHEET 1353 OF 1412

LP102X

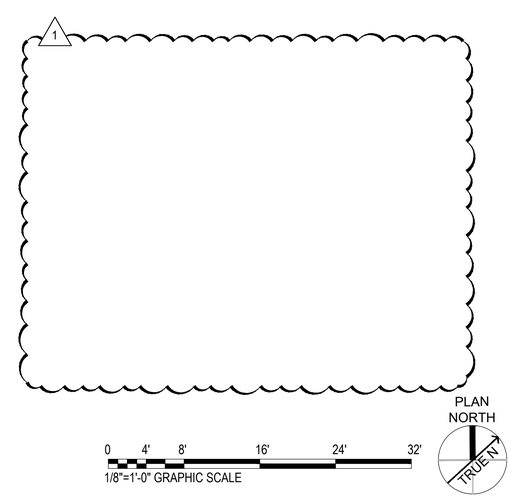
DRAWFORM REVISION: 25 AUGUST 2020

CUI



C4 DRAINAGE AREA ENLARGEMENT - TYPICAL

Scale: 1/8" = 1'-0"



SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT MOD P00006 AND MOD P00007 MOD P00005	01/16/2026	

NAVFAC

STATE OF MISSOURI BOB G. BUSHYHEAD NUMBER LA-2002003007 LANDSCAPE ARCHITECT 01/13/2026

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES BDR	DRW RWB	CHK BDG	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
DC CORE

MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

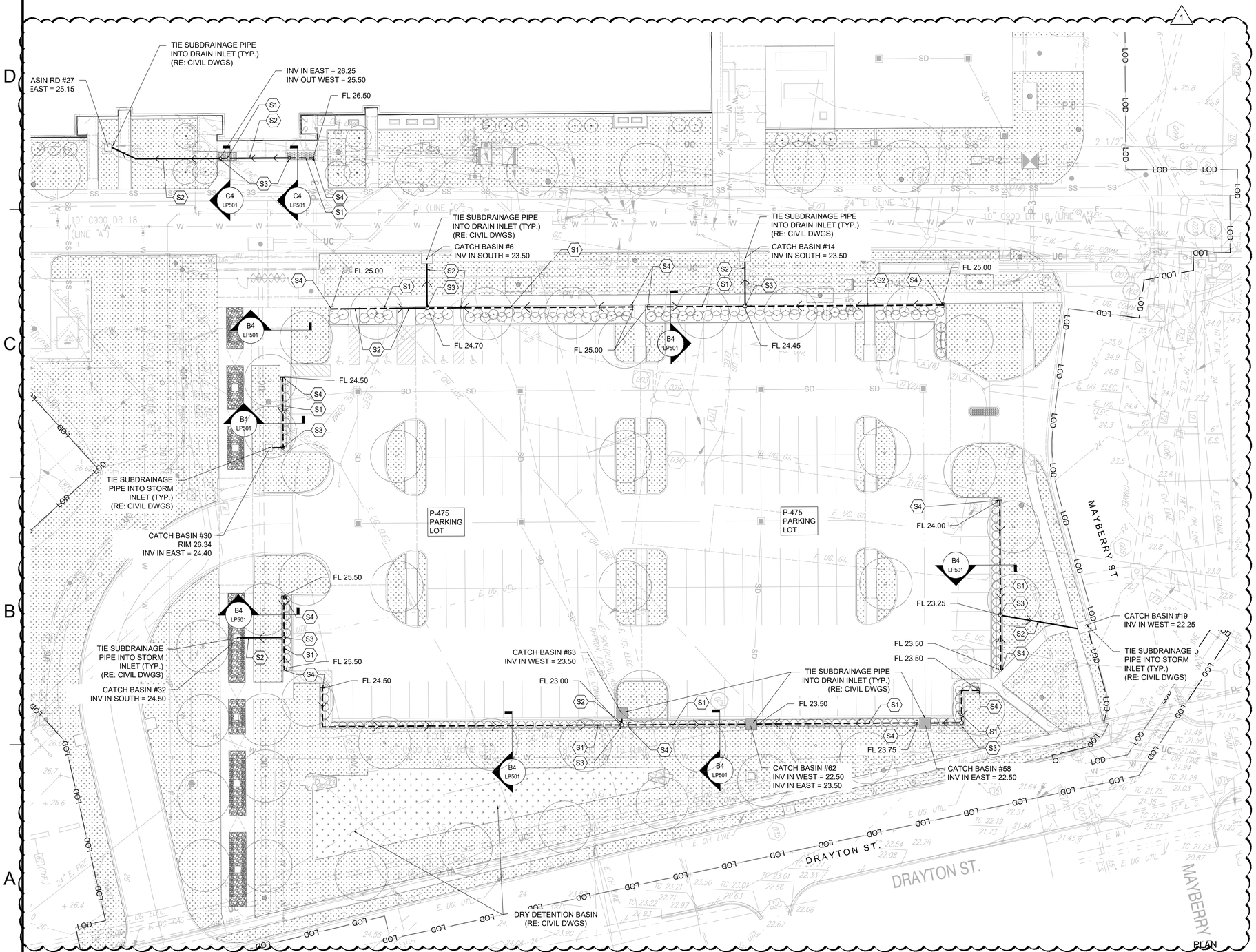
LANDSCAPE PLAN ENLARGEMENT

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871451
SHEET 1356 OF 1412

LP400X

DRAWFORM REVISION: 25 AUGUST 2020

CUI



A1 LANDSCAPE SUBDRAINAGE ENLARGEMENT PLAN (BASE BID)

Scale: 1:25

0 12.5' 25' 50' 100' 150'

1"=25'-0" GRAPHIC SCALE

GENERAL LANDSCAPE SUBDRAINAGE NOTES

1. THIS PLAN PROVIDES LAYOUT OF LANDSCAPE SUBDRAINAGE TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR. REFER TO THE FOLLOWING SPECIFICATIONS FOR SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK:
   1.1. **SECTION 329300 - EXTERIOR PLANTS**
2. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. ALL DRAIN PIPE SHALL HAVE A MINIMUM 0.5% SLOPE 1

S1	PROVIDE 4" PERFORATED DRAIN PIPE; • (RE: B4/LP501)
S2	PROVIDE 4" SOLID DRAIN PIPE; • (RE: B1/LP501)
S3	PROVIDE 4" CLEANOUT PIPE; • (RE: A2/LP501)
S4	PROVIDE 4" DRAIN CAP; • (RE: A4/LP501)
INV IN/OUT	INVERT ELEVATION (BOTTOM OF PIPE)
FL	FLOW ELEVATION (BOTTOM OF PIPE)
—<—	(DIRECTION OF FLOW)

1

SYM	DESCRIPTION	DATE	APPR.
1	BY AMENDMENT MOD P00005 AND MOD P00006 AND MOD P00007	01/16/2026	

NAVFAC

STATE OF MISSOURI BOB G. BUSHYHEAD NUMBER LA-2002003007 01/13/2026 LANDSCAPE ARCHITECT

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

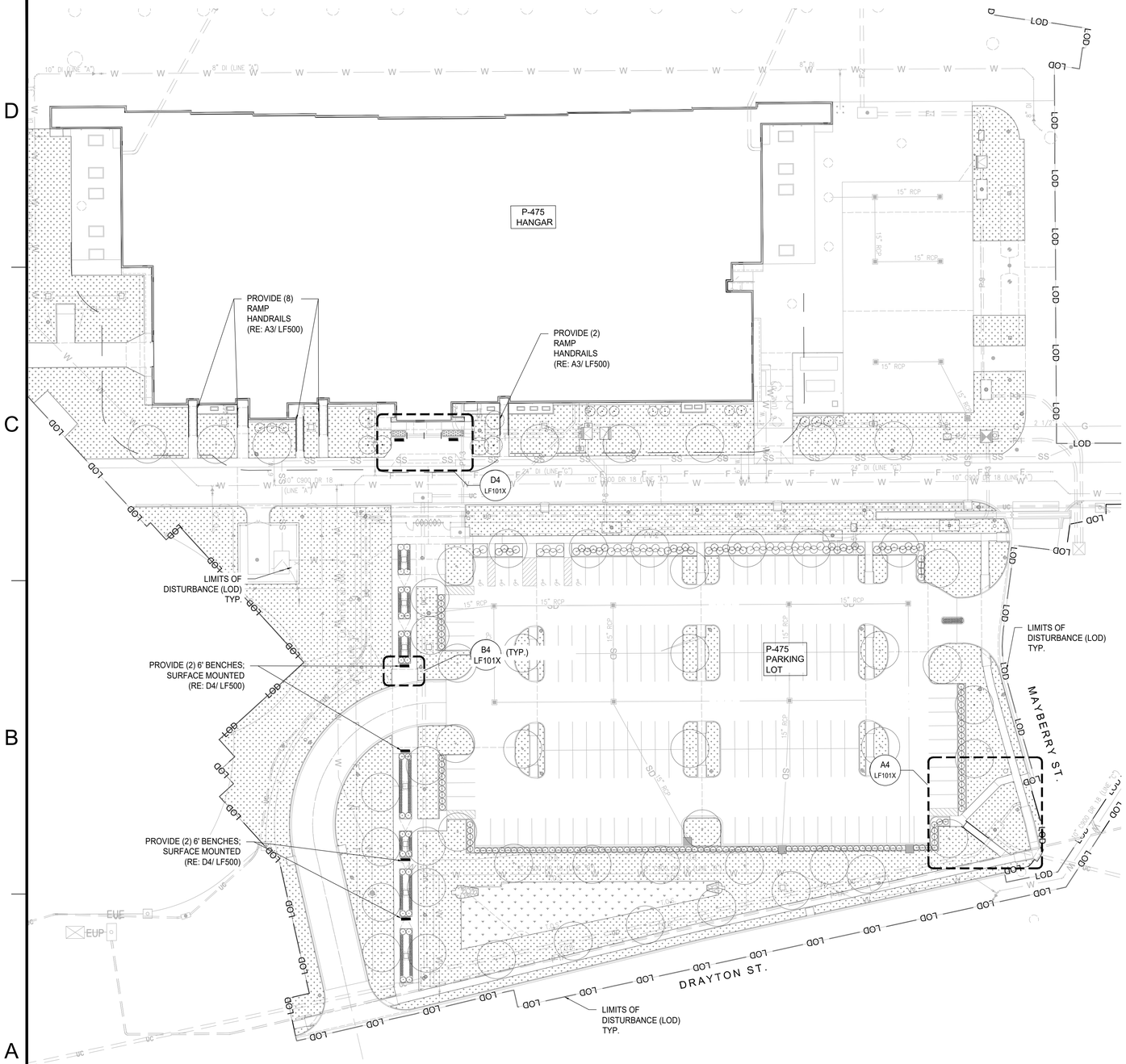
DES	BDR	DRW RWB	CHK BDG
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
LANDSCAPE SUBDRAINAGE ENLARGEMENT

SCALE: GRAPHIC
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871452
SHEET 1357 OF 1412

LP401X

DRAWFORM REVISION: 25 AUGUST 2020

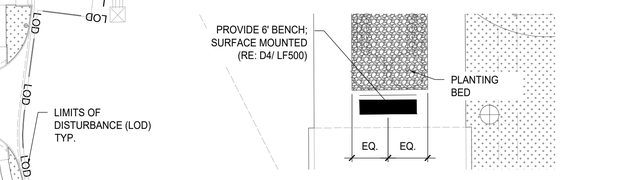


A1 LANDSCAPE FURNISHING PLAN (BASE BID)

Scale: 1:40

0 20' 40' 80' 120' 160'

1"=40'-0" GRAPHIC SCALE



D4 HANGER ENTRANCE PLAN

Scale: 1" = 10'-0"

0 10' 20' 40'

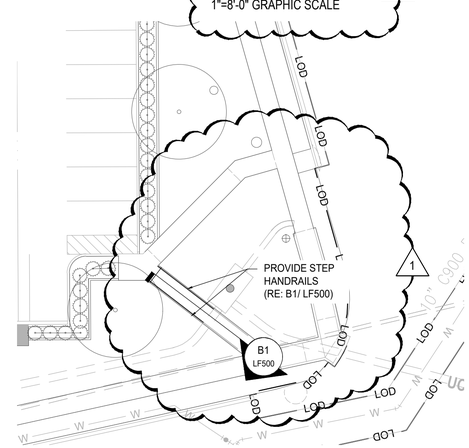
1"=10'-0" GRAPHIC SCALE

B4 BENCH LAYOUT B - TYPICAL

Scale: 1/8" = 1'-0"

0 8' 16' 32'

1"=8'-0" GRAPHIC SCALE



A4 NORTHEAST PARKING AREA

Scale: 1"= 20'-0"

0 20' 40' 80'

1"=20'-0" GRAPHIC SCALE

PLAN NORTH
TRUE N

SITE FURNISHING SCHEDULE

SYM	ITEM/DESCRIPTION	QUANTITY
	BENCH (REFER TO DETAIL D4/LF500 OR NOTED ENLARGEMENT FOR LOCATING IN LANDSCAPE)	6
	HANDRAILS (STEP OR RAMP) (RE: DETAILS SHEET LF500)	

GENERAL SITE FURNISHING NOTES

1. THIS PLAN PROVIDES LAYOUT & QUANTITY OF ALL SITE FURNISHINGS TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR. REFER TO **SECTION 12 93 00 - SITE FURNISHINGS** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. LANDSCAPE ARCHITECT & OWNERS REP TO SELECT FINAL LOCATIONS OF ALL SITE FURNISHINGS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT AND OWNERS REP PRIOR TO FINAL PLACEMENT OF ALL FURNISHINGS.

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT MOD P00006 AND MOD P00007 MOD P00005	01/16/2026	

NAVFAC

STATE OF MISSOURI BOB G. BUSHYHEAD NUMBER LA-2002003007 LANDSCAPE ARCHITECT 01/13/2023 SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.
SATISFACTORY TO DATE 12/15/2022

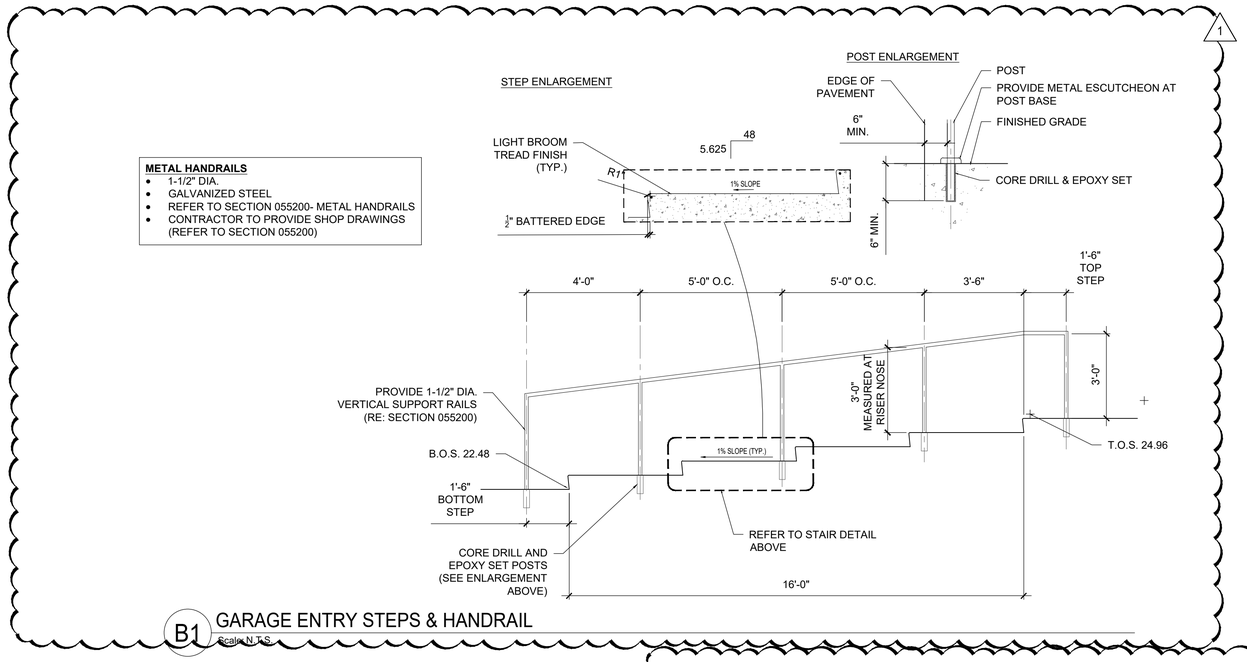
DES BDR	DRW RWB	CHK BDG	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC-CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC NORFOLK, VA.
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
LANDSCAPE FURNISHING PLAN

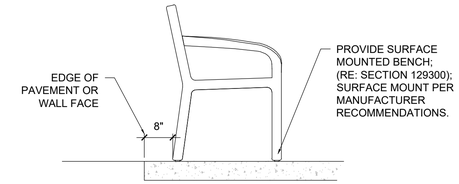
SCALE: VARIES
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871456
SHEET 1361 OF 1412

LF101X

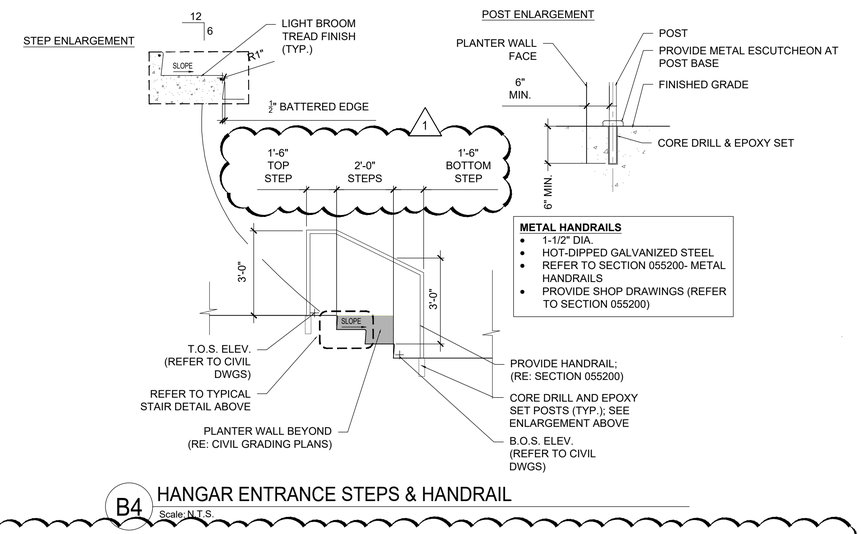
DRAWFORM REVISION: 25 AUGUST 2020



B1 GARAGE ENTRY STEPS & HANDRAIL
Scale: N.T.S.



D4 BENCH INSTALLATION - TYPICAL
Scale: N.T.S.



B4 HANGAR ENTRANCE STEPS & HANDRAIL
Scale: N.T.S.

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT MOD P00006 AND MOD P00007	01/16/2026	
	MOD P00005		

NAVFAC

STATE OF MISSOURI BOB G. BUSHYHEAD NUMBER LA-2002003007 LANDSCAPE ARCHITECT 01/13/2026

SEAL

BAMFORTH ENGINEERS + SURVEYORS

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES BDR	DRW RWB	CHK BDG	
PM/DM	KTB/RLH		
BRANCH MANAGER	DLB		
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA

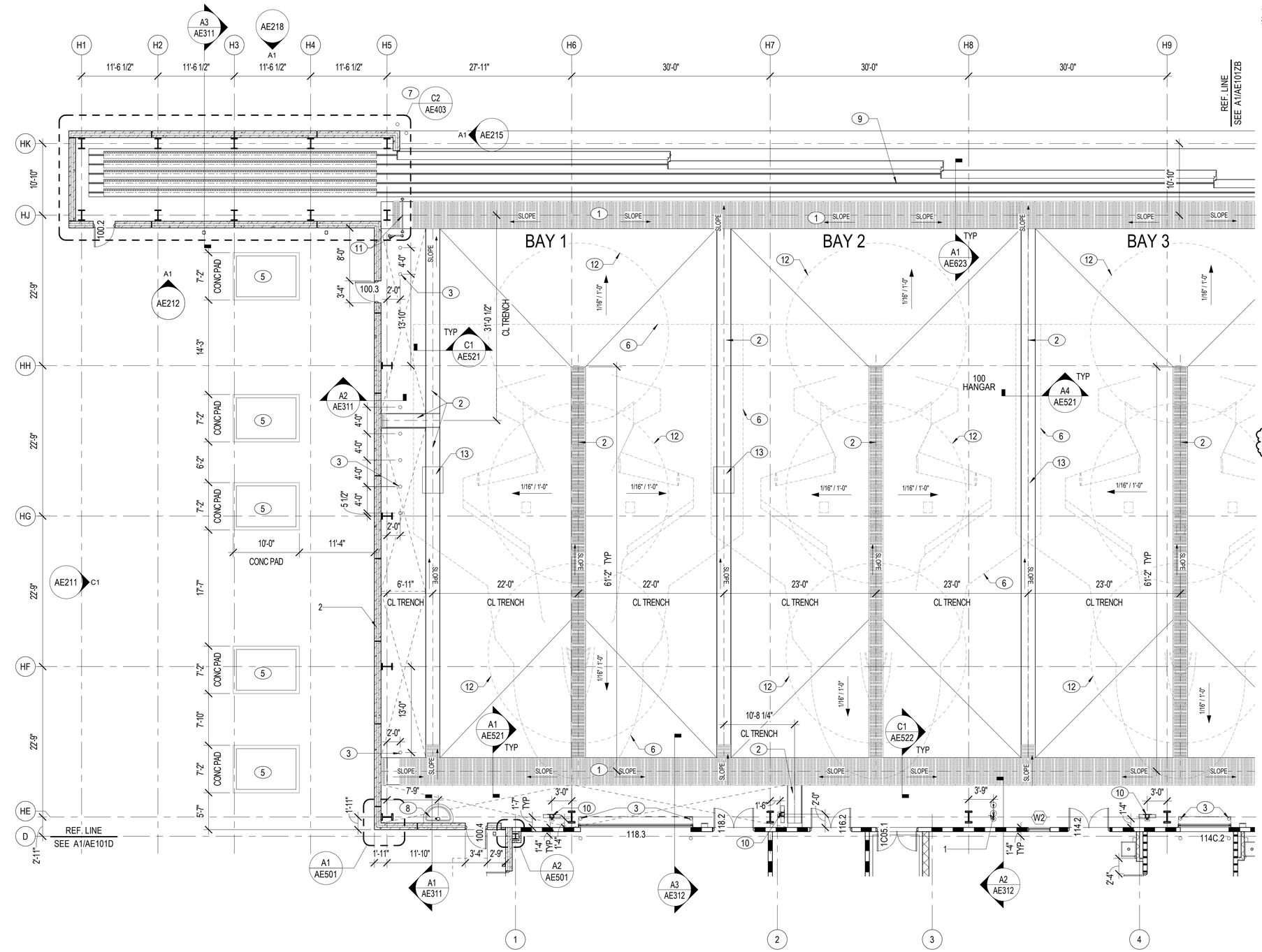
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS

LANDSCAPE FURNISHING DETAILS

SCALE:
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871457
SHEET 1362 OF 1412

LF500X

DRAWFORM REVISION: 25 AUGUST 2020



A1 FLOOR PLAN - GROUND FLOOR - SECTOR A

1/8" = 1'-0"

NOTES:

SHEET NOTES:

A REFER TO SHEET AE001 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO GC001 FOR LIFE SAFETY CODE SUMMARY AND GC101-GC102 FOR LIFE SAFETY PLANS.
C REFER TO VOLUME 2B, SHEETS CS103-CS104 FOR CIVIL SITE INFORMATION, LP101-LP104 FOR LANDSCAPE INFORMATION, AND LF101 FOR SITE FURNISHING INFORMATION.
D REFER TO SHEETS AE101-AE105 FOR OVERALL ELEVATION AND BUILDING SECTION REFERENCES.
E REFER TO AE231AC-AE232F FOR EXTERIOR PRECAST PANEL DIMENSIONAL PLANS.
F REFER TO AE601-AE602 FOR DOOR SCHEDULES. REFER TO AE611 FOR DOOR, DOOR FRAME, AND WINDOW TYPES. REFER TO AE613 FOR CURTAINWALL / STOREFRONT ELEVATIONS AND AE614 FOR TRANSLUCENT PANEL AND LOUVER ELEVATIONS.
G REFER TO SHEETS AE801-AE803 FOR PARTITION TYPES. PARTITIONS IN THE CONTROLLED AREA TO BE R6 UNO. PARTITIONS IN UNCONTROLLED AREAS TO BE M8, UNO.
H REFER TO SHEET AE821 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND TYPICAL RATED PARTITION PENETRATION DETAILS.
I REFER TO SHEETS AF601-AF602 FOR FINISH SCHEDULES AND AF610-AF612 FOR FINISH IDENTIFICATION SCHEDULES.
J REFER TO SHEETS AF111D-AF112F FOR INTERIOR FINISH PLANS AND SHEETS IN205-206 FOR TOILET ROOM / SHOWER ELEVATIONS.
K REFER TO SHEETS QJ101F3, QJ102D4, QJ102E1, QJ102E3, QJ102F3, AND QJ102F4 FOR LOCKERS AND TOILET ROOM DIMENSIONS AND ADDITIONAL INFORMATION.
L REFER TO SHEET QJ201 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
M REFER TO SHEETS AE451-AE453 FOR AIR BARRIER DIAGRAMS.
N ARCHITECTURAL EXTERIOR DIMENSIONS ARE TO EXTERIOR FACE OF INSULATED PRECAST PANEL AND FACE OF METAL STUD, UNO.
O ARCHITECTURAL DIMENSIONS ARE TO COLUMN GRID, FACE OF MASONRY / CONCRETE, FACE OF METAL STUD, UNO.
P DASHED LINES REPRESENT ITEMS ABOVE.
Q PROVIDE EXTERIOR EXPOSURE CORROSION PROTECTION AND CONTROL IN ACCORDANCE WITH AN ENVIRONMENTAL SEVERITY CLASSIFICATION (ESC) OF C4 FOR BUILDING SYSTEMS AND COMPONENTS IN THE FOLLOWING ROOMS: 100 HANGAR, 120 GSE STORAGE, 124 COMPRESS, 135B ELEC, 153 MECH, 153A WATER RM. 154 FP CL, 1S02 STAIR 2, AND 1S03 STAIR 3.

KEY NOTES (00) 3

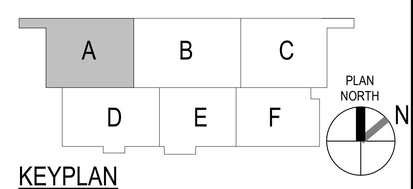
1 TRENCH, 48" WIDE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2 TRENCH, 24" WIDE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3 CONCRETE FILLED STEEL PIPE BOLLARDS. REFER TO DETAIL C4/AE591.
5 MECHANICAL EQUIPMENT AND PAD. REFER TO VOLUME 2B, SHEET MH101A FOR ADDITIONAL INFORMATION.
6 AIRCRAFT MAINTENANCE CLEARANCE, TYP.
7 REFER TO B2/AE403 FOR ENLARGED PLAN AT INSULATED METAL PANEL CONDITION.
8 WASH FOUNTAIN. REFER TO VOLUME 2B, SHEET PP101A FOR ADDITIONAL INFORMATION.
9 HANGAR DOOR BOTTOM RAIL. REFER TO D1/AE101 FOR RAIL LAYOUT. REFER TO A1/AE623 FOR BOTTOM RAIL DETAIL.
10 FIXED STEEL FRAMING FOR CABLE MANAGEMENT FOR POWER CONVERTER EQUIPMENT ABOVE. REFER TO DETAIL A3/AE591 FOR ADDITIONAL INFORMATION.
11 SAFETY GUARDRAIL. REFER TO C1/AE591.
12 DASHED CIRCLE INDICATES CONE OF COVERAGE OF FALL ARREST SYSTEM'S ANCHOR ABOVE. REFER TO SHEETS AE112A-AE112C FOR FALL ARREST SYSTEM'S RIGID RAIL LOCATIONS.
13 (2) TRENCH GRATE COVERS, HINGED, NON-GAS LIFT ASSIST, EXTRA-HEAVY DUTY, 24" LONG. REFER TO SECTION DETAIL C4/AE521.

MATERIAL NOTES

1 EMERGENCY SHOWER/ EYE WASH COMBINATION UNIT
2 PRECAST CONCRETE INSULATED WALL PANEL

PARTITION LEGEND

- NON-RATED PARTITION
- SMOKE PARTITION (NON-RATED)
- SMOKE BARRIER
- 1 HOUR FIRE BARRIER



KEYPLAN

0 5' 10' 20' 30'
1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

STATE OF FLORIDA
BILLY KEITH HOLLOWAY
AR93022
01/16/2026
REGISTERED ARCHITECT

BAMFORTH ENGINEERS & ARCHITECTS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY: Approved by J. Scott Roberts; Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	EAD	DRW MEC	CHK BKH
PM/DM	KTB / RLH		
BRANCH MANAGER	CGM		
CHIEF ENG/ARCH	EJA		
FP ENGINEER	DSN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE: MCAS BEAUFORT

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

BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

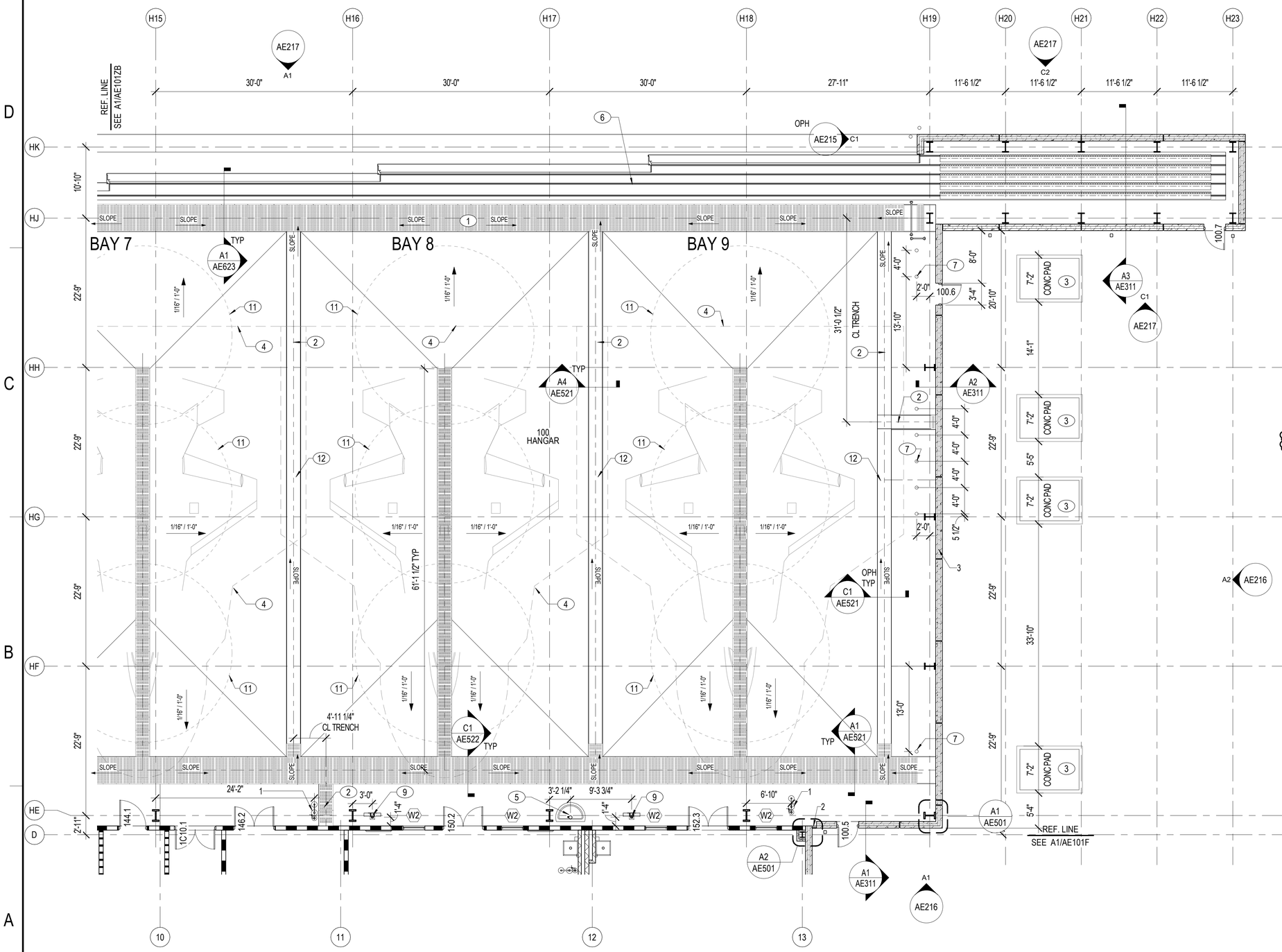
HANGAR - FLOOR PLAN - GROUND FLOOR - SECTOR A

SCALE: As indicated
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871477
SHEET 1382 OF 1412

AE101ZA

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://00042 \MF-A1 302 F3\ Maintenance Hangar/00042 F3\ Maint Hangar.rvt
1/14/2026 4:07:33 PM



A1 FLOOR PLAN - GROUND FLOOR - SECTOR C

1/8" = 1'-0"

NOTES:

SHEET NOTES:

A REFER TO SHEET AE001 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO GC001 FOR LIFE SAFETY CODE SUMMARY AND GC101-GC102 FOR LIFE SAFETY PLANS.
C REFER TO VOLUME 2B, SHEETS CS103-CS104 FOR CIVIL SITE INFORMATION, LP101-LP104 FOR LANDSCAPE INFORMATION, AND LF101 FOR SITE FURNISHING INFORMATION.
D REFER TO SHEETS AE101-AE105 FOR OVERALL ELEVATION AND BUILDING SECTION REFERENCES.
E REFER TO AE231AC-AE232F FOR EXTERIOR PRECAST PANEL DIMENSIONAL PLANS.
F REFER TO AE601-AE602 FOR DOOR SCHEDULES. REFER TO AE611 FOR DOOR, DOOR FRAME, AND WINDOW TYPES. REFER TO AE613 FOR CURTAINWALL / STOREFRONT ELEVATIONS AND AE614 FOR TRANSLUCENT PANEL AND LOUVER ELEVATIONS.
G REFER TO SHEETS AE801-AE803 FOR PARTITION TYPES. PARTITIONS IN THE CONTROLLED AREA TO BE R6 UNO. PARTITIONS IN UNCONTROLLED AREAS TO BE M8, UNO.
H REFER TO SHEET AE821 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND TYPICAL RATED PARTITION PENETRATION DETAILS.
I REFER TO SHEETS AF601-AF602 FOR FINISH SCHEDULES AND AF610-AF612 FOR FINISH IDENTIFICATION SCHEDULES.
J REFER TO SHEETS AF111D-AF112F FOR INTERIOR FINISH PLANS AND SHEETS IN205-206 FOR TOILET ROOM / SHOWER ELEVATIONS.
K REFER TO SHEETS QJ101F3, QJ102D4, QJ102E1, QJ102E3, QJ102F3, AND QJ102F4 FOR LOCKERS AND TOILET ROOM DIMENSIONS AND ADDITIONAL INFORMATION.
L REFER TO SHEET QJ201 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
M REFER TO SHEETS AE451-AE453 FOR AIR BARRIER DIAGRAMS.
N ARCHITECTURAL EXTERIOR DIMENSIONS ARE TO EXTERIOR FACE OF INSULATED PRECAST PANEL AND FACE OF METAL STUD, UNO.
O ARCHITECTURAL DIMENSIONS ARE TO COLUMN GRID, FACE OF MASONRY / CONCRETE, FACE OF METAL STUD, UNO.
P DASHED LINES REPRESENT ITEMS ABOVE.
Q PROVIDE EXTERIOR EXPOSURE CORROSION PROTECTION AND CONTROL IN ACCORDANCE WITH AN ENVIRONMENTAL SEVERITY CLASSIFICATION (ESC) OF C4 FOR BUILDING SYSTEMS AND COMPONENTS IN THE FOLLOWING ROOMS: 100 HANGAR, 120 GSE STORAGE, 124 COMPRESS, 135B ELEC, 153 MECH, 153A WATER RM. 154 FP CL, 1S02 STAIR 2, AND 1S03 STAIR 3.

KEY NOTES (00) 3

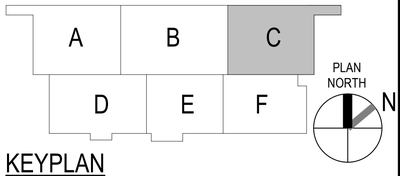
1 TRENCH, 48" WIDE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2 TRENCH, 24" WIDE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3 MECHANICAL EQUIPMENT AND PAD. REFER TO VOLUME 2B, SHEET MH101C FOR ADDITIONAL INFORMATION.
4 AIRCRAFT MAINTENANCE CLEARANCE, TYP.
5 WASH FOUNTAIN. REFER TO VOLUME 2B, SHEET PP101C FOR ADDITIONAL INFORMATION.
6 HANGAR DOOR BOTTOM RAIL. REFER TO D1/AE101 FOR RAIL LAYOUT. REFER TO A1/AE623 FOR BOTTOM RAIL DETAIL.
7 CONCRETE FILLED STEEL PIPE BOLLARDS. REFER TO DETAIL C4/AE591.
8 REFER TO B2/AE403 FOR ENLARGED PLAN AT INSULATED METAL PANEL CONDITION.
9 FIXED STEEL FRAMING FOR CABLE MANAGEMENT FOR POWER CONVERTER EQUIPMENT ABOVE. REFER TO DETAIL A3/AE591 FOR ADDITIONAL INFORMATION.
11 DASHED CIRCLE INDICATES CONE OF COVERAGE OF FALL ARREST SYSTEM'S ANCHOR ABOVE. REFER TO SHEETS AE112A-AE112C FOR FALL ARREST SYSTEM'S RIGID RAIL LOCATIONS.
12 (2) TRENCH GRATE COVERS, HINGED, NON-GAS LIFT ASSIST, EXTRA-HEAVY DUTY, 24" LONG. REFER TO SECTION DETAIL C4/AE521.

MATERIAL NOTES

1 EMERGENCY SHOWER/ EYE WASH COMBINATION UNIT
2 SEISMIC JOINT SYSTEM, WALL
3 PRECAST CONCRETE INSULATED WALL PANEL

PARTITION LEGEND

- NON-RATED PARTITION
- SMOKE PARTITION (NON-RATED)
- SMOKE BARRIER
- 1 HOUR FIRE BARRIER



KEYPLAN

0 5' 10' 20' 30'

1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

STATE OF FLORIDA
BILLY KEITH HOLLOWAY
AR93022
01/16/2026
REGISTERED ARCHITECT

BAMFORTH ENGINEERS & CONSULTANTS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES EAD	DRW MEC	CHK BKH	
PMDM			KTB / RLH
BRANCH MANAGER			CGM
CHIEF ENG/ARCH			EJA
FP ENGINEER			DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA

DC CODE: MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

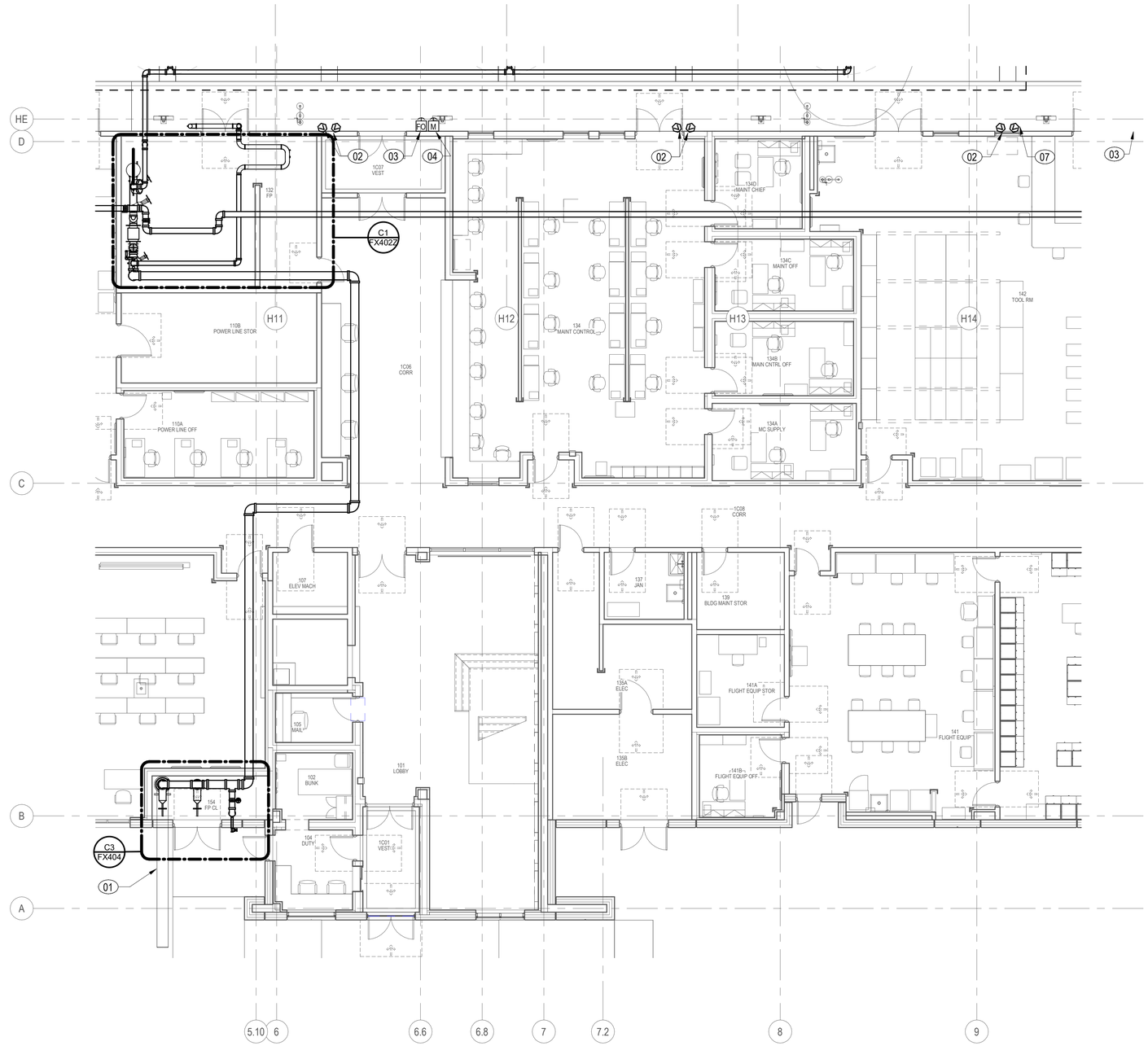
HANGAR - FLOOR PLAN - GROUND FLOOR - SECTOR C

SCALE: As indicated
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12871479
SHEET 1384 OF 1412

AE101ZC

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://2024 1 MFA F 522 F36 Maintenance Hangar/2024 F36 Maint Hangar.rvt
1/14/2026 4:08:01 PM



NOTES:

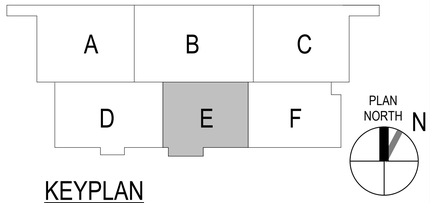
SHEET NOTES:

A. REFER TO SHEET FX001 FOR GENERAL NOTES AND SYMBOLS.

B. PROVIDE EXTERIOR EXPOSURE CORROSION PROTECTION AND CONTROL IN ACCORDANCE WITH AN ENVIRONMENTAL SEVERITY CLASSIFICATION (ESC) OF C4 FOR BUILDING SYSTEMS AND COMPONENTS IN THE FOLLOWING ROOMS: 100 HANGAR, 120 GSE STORAGE, 124 COMPRESS, 135B ELEC, 153 MECH, 153A WATER RM. 154 FP CL, 1S02 STAIR 2, AND 1S03 STAIR 3.

KEY NOTES (00)

(01) INCOMING 16" SERVICE LATERAL; REFER TO DRAWING CU105X FOR CONTINUATION. 1



KEYPLAN

0 5' 10' 20' 30'

1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

JENSEN HUGHES
Advancing the Science of Safety

A1 HANGAR - LOW LEVEL SUPPRESSION PLAN - GROUND FLOOR - SECTOR E
1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
1	BY AMENDMENT	01/16/2026	
	MOD P00006 AND MOD P00007	10/2025	
	MOD P00005	05/2023	

NAVFAC

COMMONWEALTH OF VIRGINIA
ALISON WAKELIN
Lic. No. 037705
1/15/2026
PROFESSIONAL ENGINEER
SEAL

BAMFORTH ENGINEERS + SURVEYORS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head
& Supervisory Facility Planner,
PWD Beaufort, SC via email.

SATISFACTORY TO		DATE	12/15/2022
DES ROP	DRW AHE	CHK	APF
PM/DM			KTB / RLH
BRANCH MANAGER			DSN
CHIEF ENG/ARCH			EJA
FP ENGINEER			DSN

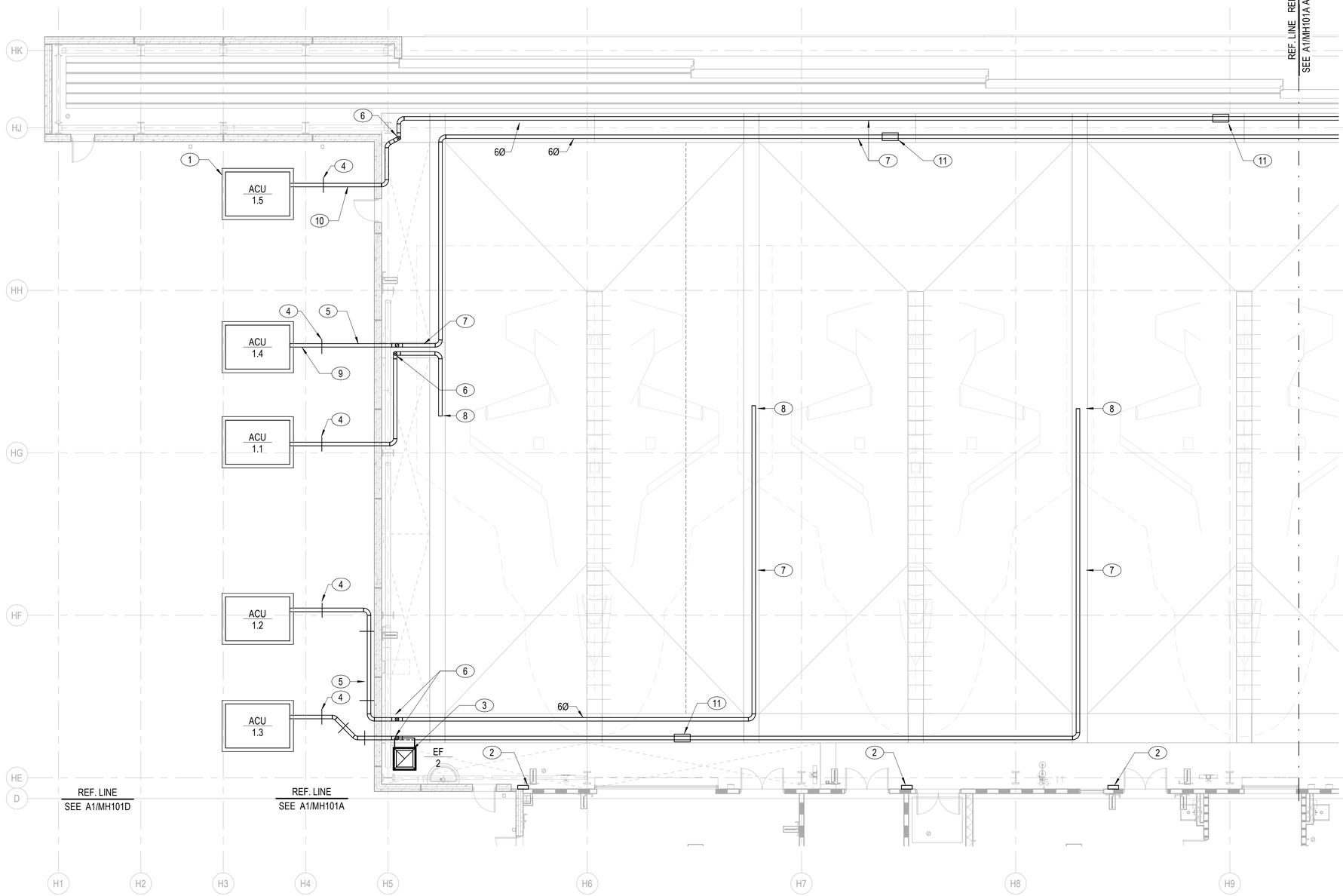
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID AND ADDITIONAL OPTIONS
HANGAR – LOW LEVEL SUPPRESSION PLAN – GROUND FLOOR – SECTOR E

SCALE:	1/8" = 1'-0"
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871486
SHEET	1391 OF 1412

FX011ZE

DRAWFORM REVISION: 23 AUGUST 2022

Autodesk Docs://3D242 VMFA1 505 F35 Maintenance Hangar/3D242 F35 Maint Hangar - FP - RVT2024.rvt
1/19/2026 9:17:56 AM



A1 DUCTWORK PLAN, GROUND FLOOR, AREA A

1/8" = 1'-0"

NOTES:

SHEET NOTES:

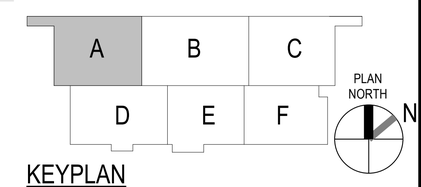
A. REFER TO SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES ON SHEETS MH001 AND MH002.

B. REFER TO DETAILS ON SHEET MH506 FOR PCA SYSTEM.

C. REFER TO SHEET AE002 FOR CORROSION PREVENTION AND CONTROL REQUIREMENTS.

KEY NOTES (00)

1. 6" HIGH CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DETAIL - TYPICAL.
2. ACU REMOTE CONTROL PANEL - TYPICAL
3. 28x28 DUCT UP TO EXHAUST LOUVER. EXHAUST DUCT DOWN FROM EF TO 12" A.F.F. WITH 26x26 SIDE OPENING WITH W.W.F. TYPICAL THREE SIDES.
4. PIPE SUPPORT - TYPICAL
5. WELD JOINTS AND FITTINGS FOR PCA PIPE INSTALLED ABOVE FLOOR AND INSTALL WITH A CONTINUOUS SLOPE OF 1/16" PER FOOT FROM THE HIGH POINT TO THE VERTICAL DROP DOWN TO THE FLOOR TRENCHES - TYPICAL
6. 6" PCA PIPING DOWN TO TRENCH THROUGH FIELD COORDINATED AND SIZED OPENING IN TRENCH GRATING. REFER TO STRUCTURAL DRAWINGS FOR TRENCH DETAILS.
7. PROVIDE BOLTED FLANGED JOINTS FOR 6" PCA PIPING INSTALLED IN THE TRENCHES AND INSTALL AT A CONTINUOUS SLOPE OF 1/16" PER FOOT TOWARDS THE END CONNECTION FOR THE AIRCRAFT. FLANGED JOINTS SHALL BE A MAXIMUM OF 20' SPACING.
8. PROVIDE INDUSTRIAL, STAINLESS STEEL DIAL THERMOMETER AND PRESSURE GAUGE IN 6" PCA PIPING JUST PRIOR TO 6"X4" TRANSITION FITTING. SEE DETAIL A1/MH506 FOR TERMINATION OF PCA PIPING INCLUDING FLEX DUCT CONNECTION ADAPTER.
9. PROVIDE FLEXIBLE EXPANSION JOINT AND PRESSURE/TEMPERATURE TEST PLUG AT DISCHARGE OF PCA UNITS FOR MANUAL MEASUREMENT OF PRESSURE AND TEMPERATURE WITH INSERTION GAUGES. - TYPICAL
10. PROVIDE STUCCO EMBOSSED ALUMINUM JACKET OVER HDPE JACKET ON EXPOSED PCA PIPE. - TYPICAL
11. 6" FLANGED, STAINLESS STEEL BELLOWS TYPE EXPANSION JOINT WITH INTERNAL LINER FOR SMOOTH AIRFLOW PATH AND UP TO 2" EXPANSION/CONTRACTION CAPABILITY. SEE DETAIL C4/MH506 FOR INSULATION INSTALLATION REQUIREMENTS.



KEYPLAN

0 ½" 1" 2" 3" 4"

1'-0" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE No 66893
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/16/2026

BAMFORTH ENGINEERS & ARCHITECTS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY:
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE			12/15/2022
DES MAB	DRW MAB	CHK	JEB
PM/CM			KTB / RLH
BRANCH MANAGER			ALG
CHIEF ENG/ARCH			EJA
FP ENGINEER			DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE:
MCAS BEAUFORT

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

BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

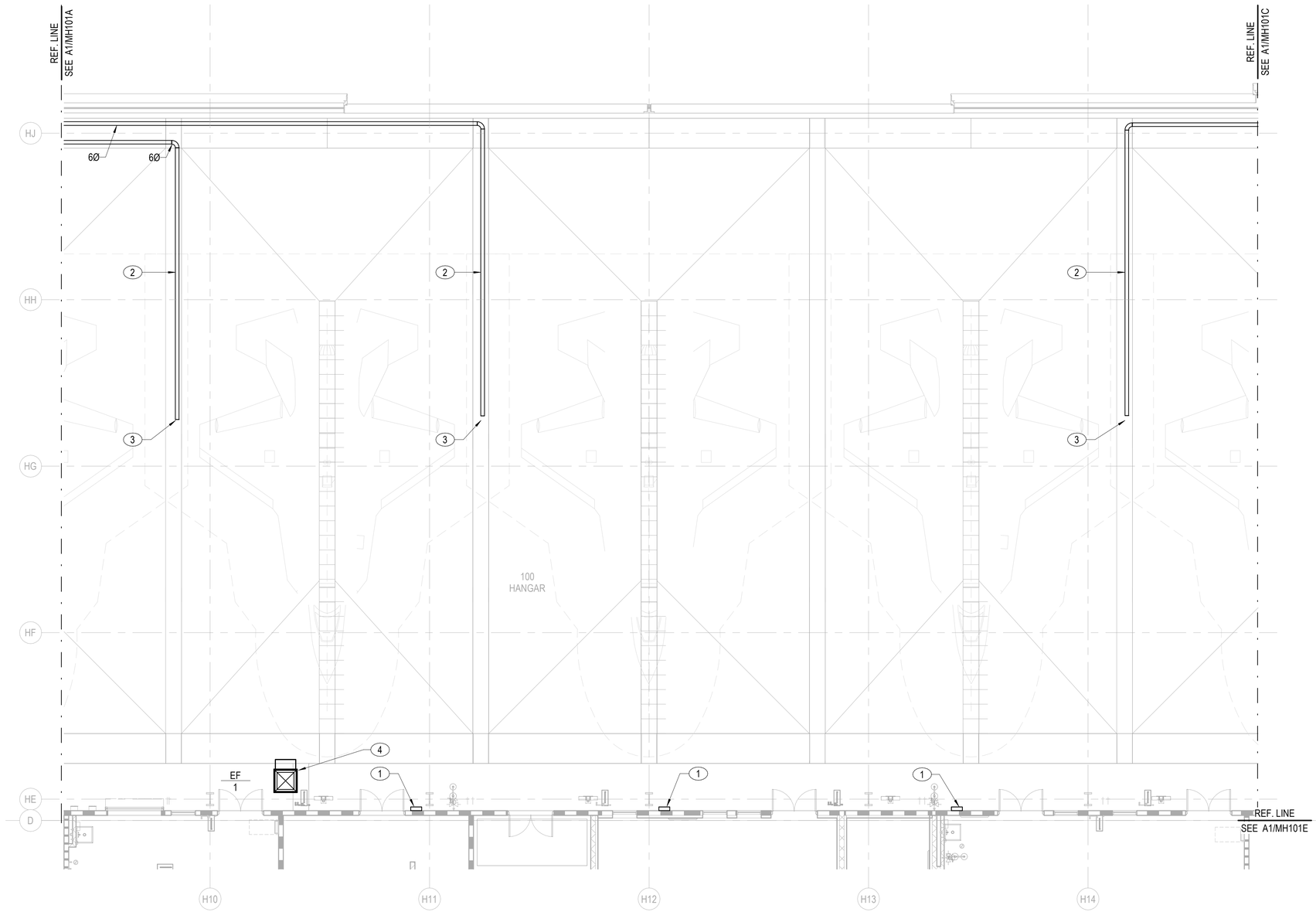
HANGAR - DUCTWORK PLAN - GROUND FLOOR - SECTOR A

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871498
SHEET 1403 OF 1412

MH101ZA

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://22002 MIFAT 502 F35 Maintenance Hangar/22002 F35 Maint Hangar_ME_v2024.rvt
1/14/2026 10:39:26 AM



A1 DUCTWORK PLAN, GROUND FLOOR, AREA B

1/8" = 1'-0"

NOTES:

SHEET NOTES:

A. REFER TO SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES ON SHEETS MH001 AND MH002.

B. REFER TO DETAILS ON SHEET MH506 FOR PCA SYSTEM.

C. REFER TO SHEET AE002 FOR CORROSION PREVENTION AND CONTROL REQUIREMENTS. 3

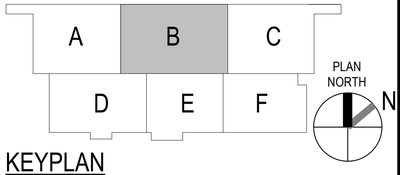
KEY NOTES 00

1 ACU REMOTE CONTROL PANEL - TYPICAL

2 PROVIDE BOLTED FLANGED JOINTS FOR 6" PCA PIPING INSTALLED IN THE TRENCHES AND INSTALL AT A CONTINUOUS SLOPE OF 1/16" PER FOOT TOWARDS THE END CONNECTION FOR THE AIRCRAFT. FLANGED JOINTS SHALL BE A MAXIMUM OF 20' SPACING.

3 PROVIDE INDUSTRIAL, STAINLESS STEEL DIAL THERMOMETER AND PRESSURE GAUGE IN 6" PCA PIPING JUST PRIOR TO 6"X4" TRANSITION FITTING. SEE DETAIL A1/MH506 FOR TERMINATION OF PCA PIPING INCLUDING FLEX DUCT CONNECTION ADAPTER.

4 28x28 EXHAUST DUCT UP. EXHAUST DUCT DOWN TO 12" A.F.F. WITH 26x26 SIDE OPENINGS - TYPICAL THREE SIDES.



KEYPLAN

0 ½" 1" 2" 3" 4"

1'-0" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE
No 66893
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/16/2026
SEAL

BAMFORTH
ENGINEERS & CONTRACTORS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	MAB	DRW	MAB	CHK	JEB
PM/DM	KTB / RLH				
BRANCH MANAGER	ALG				
CHIEF ENG/ARCH	EJA				
FP ENGINEER	DSN				

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC

DC CORE:
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

HANGAR - DUCTWORK PLAN - GROUND FLOOR - SECTOR B

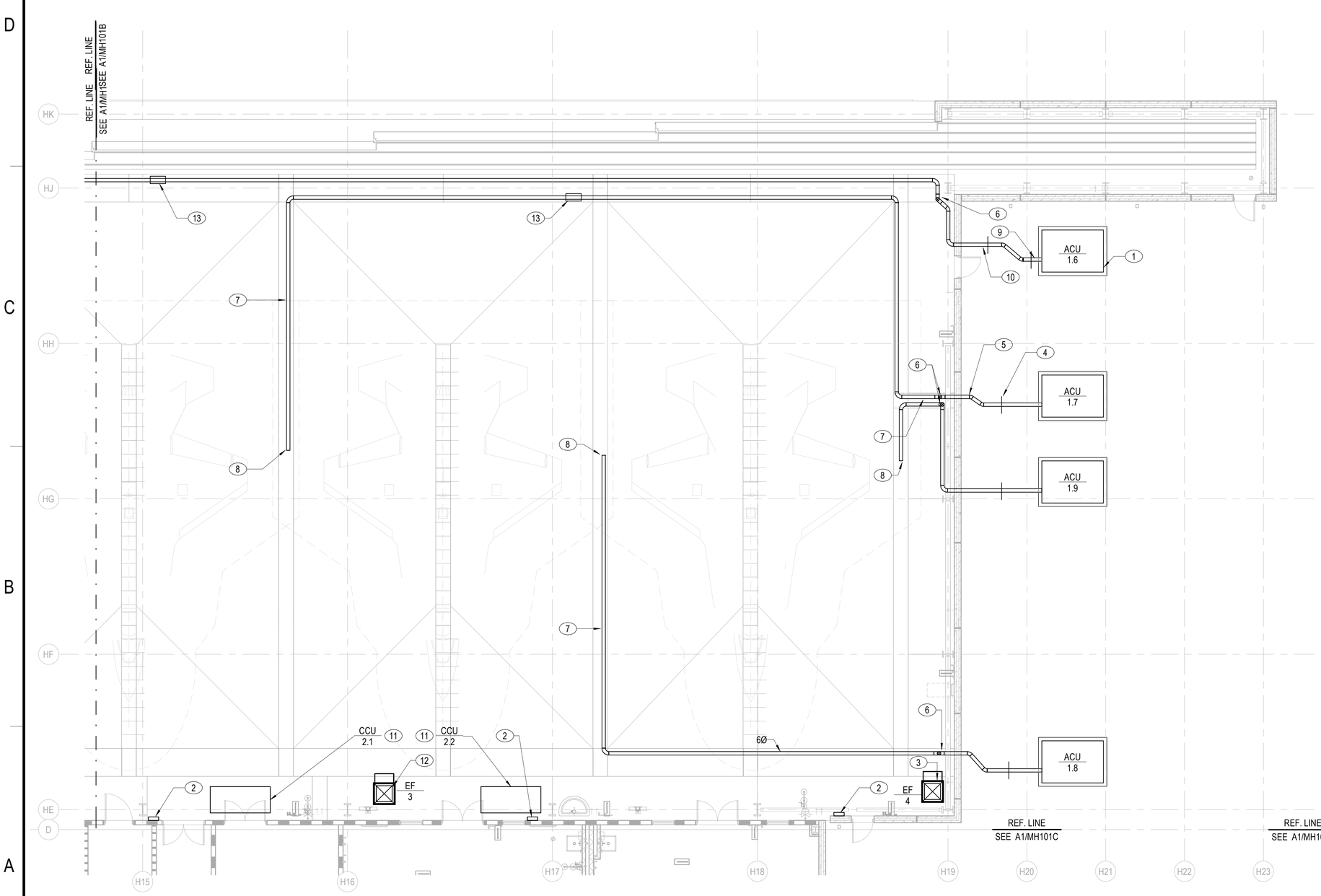
SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12871499
SHEET 1404 OF 1412

MH101ZB

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://20042 MFA1 302 F3 Maintenance Hangar/20042 F3 Main Hangar_ME-v2024.rvt
1/14/2026 10:39:27 AM

CUI



A1 DUCTWORK PLAN, GROUND FLOOR, AREA C

1/8" = 1'-0"

NOTES:

SHEET NOTES:

A. REFER TO SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES ON SHEETS MH001 AND MH002.

B. REFER TO DETAILS ON SHEET MH506 FOR PCA SYSTEM.

C. REFER TO SHEET AE002 FOR CORROSION PREVENTION AND CONTROL REQUIREMENTS.

KEY NOTES (00)

1 6" HIGH CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DETAIL - TYPICAL.

2 ACU REMOTE CONTROL PANEL - TYPICAL

3 28x28 DUCT UP TO EXHAUST LOUVER. EXHAUST DUCT DOWN FROM EF TO 12" A.F.F. WITH 26x26 SIDE OPENING WITH W.W.F. TYPICAL THREE SIDES.

4 PIPE SUPPORT - TYPICAL

5 WELD JOINTS AND FITTINGS FOR PCA PIPE INSTALLED ABOVE FLOOR AND INSTALL WITH A CONTINUOUS SLOPE OF 1/16" PER FOOT FROM THE HIGH POINT TO THE VERTICAL DROP DOWN TO THE FLOOR TRENCHES - TYPICAL

6 6" PCA PIPING DOWN TO TRENCH THROUGH FIELD COORDINATED AND SIZED OPENING IN TRENCH GRATING. REFER TO STRUCTURAL DRAWINGS FOR TRENCH DETAILS.

7 PROVIDE BOLTED FLANGED JOINTS FOR 6" PCA PIPING INSTALLED IN THE TRENCHES AND INSTALL AT A CONTINUOUS SLOPE OF 1/16" PER FOOT TOWARDS THE END CONNECTION FOR THE AIRCRAFT. FLANGED JOINTS SHALL BE A MAXIMUM OF 20' SPACING.

8 PROVIDE INDUSTRIAL, STAINLESS STEEL DIAL THERMOMETER AND PRESSURE GAUGE IN 6" PCA PIPING JUST PRIOR TO 6"X4" TRANSITION FITTING. SEE DETAIL A1/MH506 FOR TERMINATION OF PCA PIPING INCLUDING FLEX DUCT CONNECTION ADAPTER.

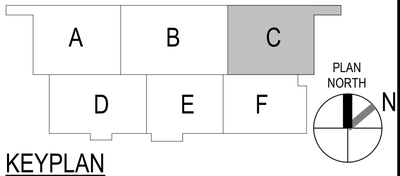
9 PROVIDE FLEXIBLE EXPANSION JOINT AND PRESSURE/TEMPERATURE TEST PLUG AT DISCHARGE OF PCA UNITS FOR MANUAL MEASUREMENT OF PRESSURE AND TEMPERATURE WITH INSERTION GAUGES. - TYPICAL

10 PROVIDE STUCCO EMBOSSED ALUMINUM JACKET OVER HDPE JACKET ON EXPOSED PCA PIPE. - TYPICAL

11 MOUNT CCU AT 9'-0" AFF. REFER TO STRUCTURAL DRAWINGS (C1/SF414) FOR MOUNTING RACK DETAIL - TYPICAL

12 28x28 EXHAUST DUCT UP. EXHAUST DUCT DOWN TO 12" A.F.F. WITH 26x26 SIDE OPENINGS - TYPICAL THREE SIDES.

13 6" FLANGED, STAINLESS STEEL BELLOWS TYPE EXPANSION JOINT WITH INTERNAL LINER FOR SMOOTH AIRFLOW PATH AND UP TO 2" EXPANSION/CONTRACTION CAPABILITY. SEE DETAIL C4/MH506 FOR INSULATION INSTALLATION REQUIREMENTS.



KEYPLAN

0 ½" 1" 2" 3" 4"

1'-0" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE No 66893
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/16/2026

BAMFORTH ENGINEERS & CONTRACTORS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 1/26/2026

ACTIVITY
Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE			12/15/2022
DES MAB	DRW MAB	CHK JEB	
PMDM			KTB / RLH
BRANCH MANAGER			ALG
CHIEF ENG/ARCH			EJA
FP ENGINEER			DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA
DC CORE:
MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

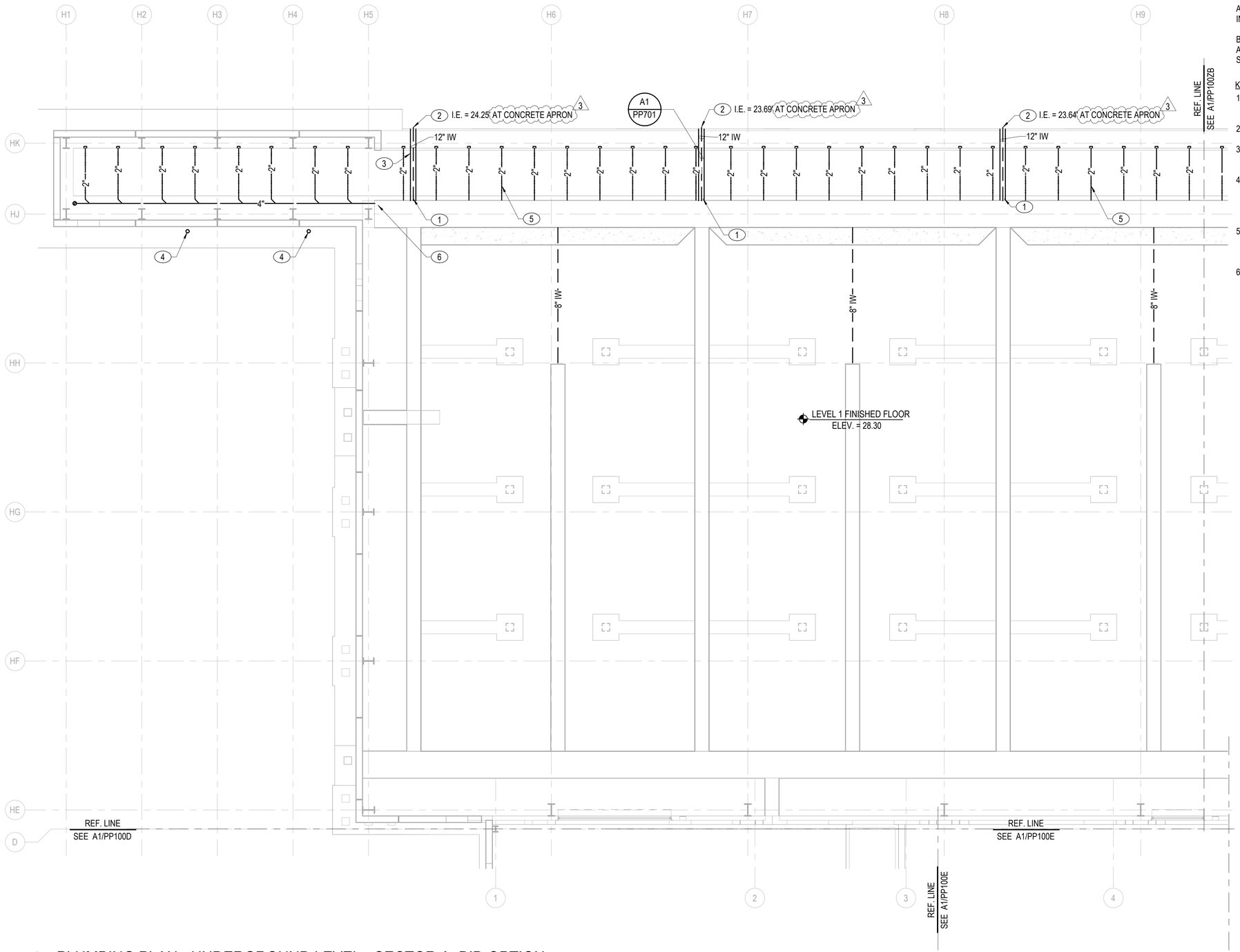
HANGAR - DUCTWORK PLAN - GROUND FLOOR - SECTOR C

SCALE:	1/8" = 1'-0"
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871500
SHEET	1405 OF 1412

MH101ZC

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://2042 NAFAT 322 FS Maintenance Hangar/2042 FS Maint Hangar_ME-v2024.rvt
1/14/2026 10:39:28 AM



A1 PLUMBING PLAN - UNDERGROUND LEVEL - SECTOR A, BID OPTION

1/8" = 1'-0"

NOTES:

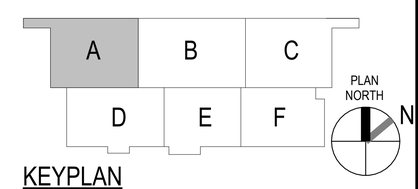
SHEET NOTES:

A. SEE STRUCTURAL PLANS FOR TRENCH SLOPE AND INVERT OF TRENCHES

B. ALL PIPE HANGERS BELOW THE STRUCTUAL SLAB AND EXPOSED TO SOIL ARE REQUIRED TO BE ALL STAINLESS STEEL CONSTRUCTION.

KEY NOTES (00)

1. CONNECT 12" IW PIPE TO TRENCH WALL. SEE DETAIL B4/PP507.
2. 12" IW PIPE. REFER TO CIVIL FOR CONTINUATION.
3. SLEEVE PIPING PASSING THROUGH GRADE BEAMS (TYPICAL).
4. STORM DOWNSPOUT CONNECTION. SEE CIVIL DRAWINGS SHEET CG513 FOR DOWNSPOUT BOOT TRANSITIONING FROM DOWNSPOUT TO UNDERGROUND STORM PIPING.
5. 2" DRAIN LINE SLOPED 1/4" PER FOOT AND TERMINATED AT TRENCH DRAIN, TYPICAL. SEE DETAIL A1/AE623.
6. 4" DRAIN LINE SLOPED 1/4" PER FOOT AND TERMINATED AT TRENCH DRAIN, TYPICAL. SEE DETAIL A1/AE623.



KEYPLAN

0 5' 10' 20' 30'

1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

SYM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE No 66893
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/16/2026

SEAL

BAMFORTH ENGINEERS & SURVEYORS

AE INFO

APPROVED
DocuSign envelope ID: 4F...
FOR COMMANDER NAVFAC 1/16/2026

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	HES	DRW	HES	CHK	DSR
PM/DM	KTB / RLH				
BRANCH MANAGER	ALG				
CHIEF ENG/ARCH	EJA				
FP ENGINEER	DSN				

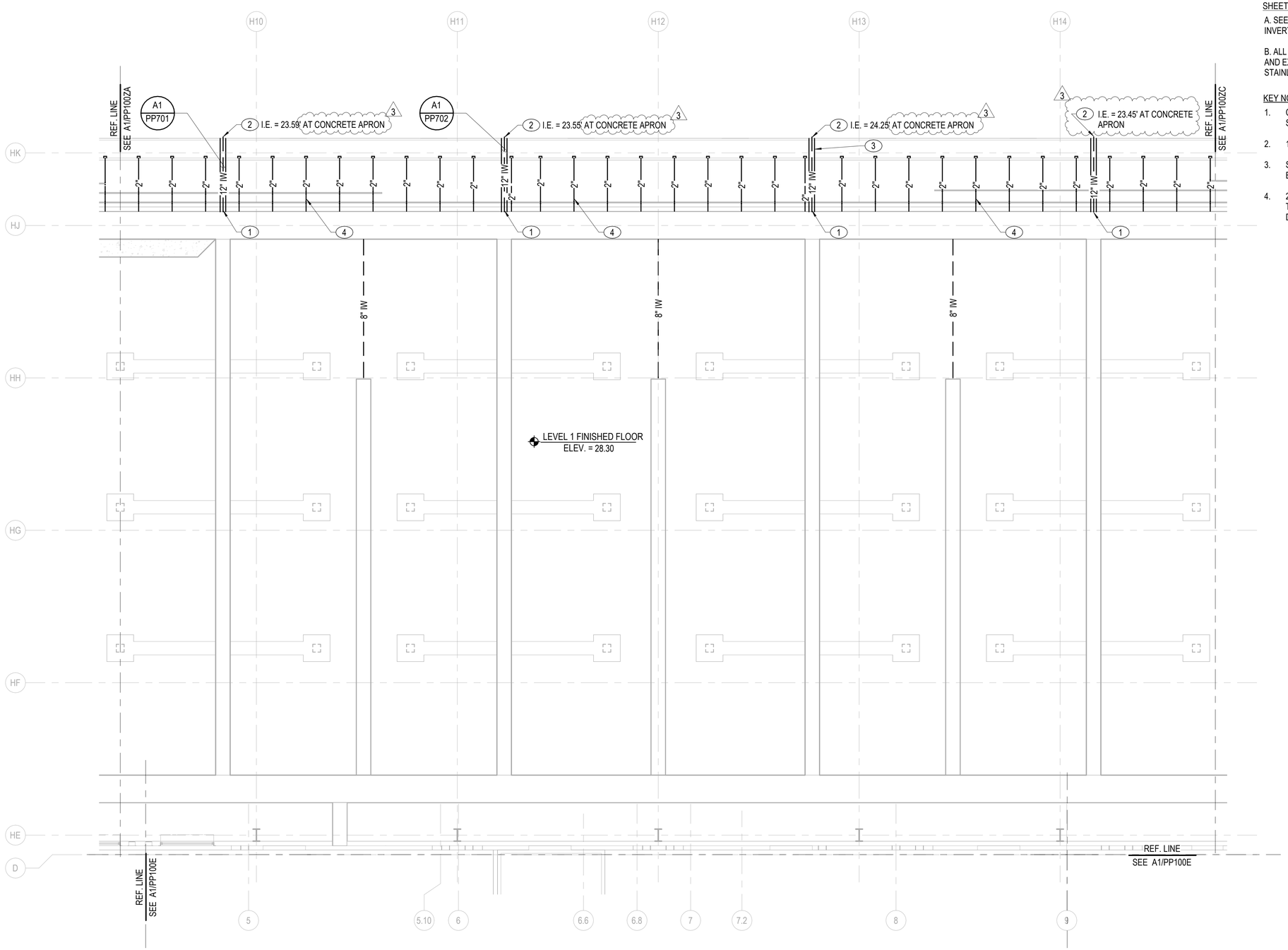
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
DEPARTMENT OF THE NAVY
DC-CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
HANGAR - PLUMBING PLAN - SECTOR A, BID OPTION

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871493
SHEET 1398 OF 1412

PP100ZA

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://20042 VMFA1 502 F35 Maintenance Hangar/20042 F35 Maint Hangar_Pl_v2024.rvt
1/14/2026 5:01:43 PM



A1 PLUMBING PLAN - UNDERGROUND LEVEL - SECTOR B, BID OPTION

1/8" = 1'-0"

NOTES:

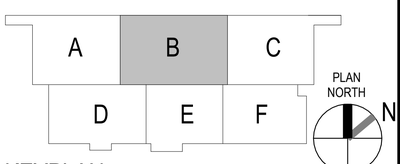
SHEET NOTES:

A. SEE STRUCTURAL PLANS FOR TRENCH SLOPE AND INVERT OF TRENCHES.

B. ALL PIPE HANGERS BELOW THE STRUCTUAL SLAB AND EXPOSED TO SOIL ARE REQUIRED TO BE ALL STAINLESS STEEL CONSTRUCTION.

KEY NOTES (00)

1. CONNECT 12" IW PIPE TO TRENCH WALL. SEE DETAIL B4/PP507.
2. 12" IW PIPE. REFER TO CIVIL FOR CONTINUATION.
3. SLEEVE PIPING PASSING THROUGH GRADE BEAMS (TYPICAL).
4. 2" DRAIN LINE SLOPED 1/4" PER FOOT AND TERMINATED AT TRENCH DRAIN, TYPICAL. SEE DETAIL A1/AE623.



KEYPLAN

0 5' 10' 20' 30'

1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

SYM	DESCRIPTION	DATE	APPR.
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE
No 66893
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/16/2026

BAMFORTH
ENGINEERS & SURVEYORS

AE INFO

APPROVED
DocuSigned by:
FOR COMMANDER NAVFAC

ACTIVITY:
Approved by J. Scott Roberts
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES HES	DRW HES	CHK DSR	
PM/DM		KTB / RLH	
BRANCH MANAGER		ALG	
CHIEF ENG/ARCH		EJA	
FP ENGINEER		DSN	

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

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND – MID-ATLANTIC
1510 GILMAN AVE.
NORFOLK, VA

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

HANGAR - PLUMBING PLAN - SECTOR B, BID OPTION

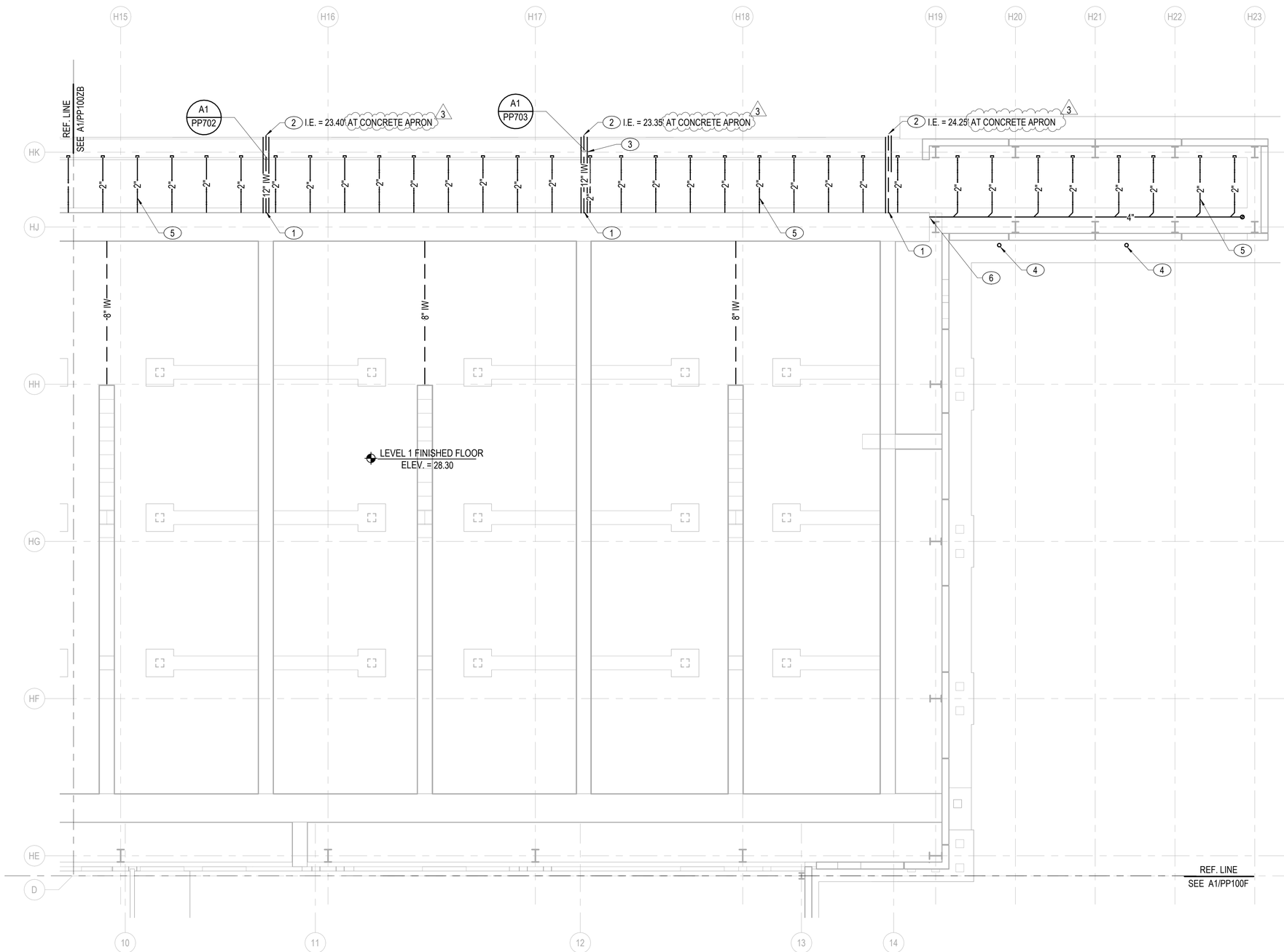
SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871494
SHEET 1399 OF 1412

PP100ZB

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://20042-MIFAT 502 FS5 Maintenance Hangar/20042-FS5 Maint Hangar_PL-v2024.rvt
1/14/2026 6:01:44 PM

CUI



NOTES:

SHEET NOTES:

A. SEE STRUCTURAL PLANS FOR TRENCH SLOPE AND INVERT OF TRENCHES.

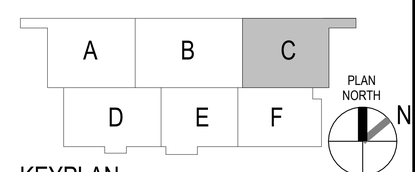
B. ALL PIPE HANGERS BELOW THE STRUCTUAL SLAB AND EXPOSED TO SOIL ARE REQUIRED TO BE ALL STAINLESS STEEL CONSTRUCTION.

KEY NOTES (00)

1. CONNECT 12" IW PIPE TO TRENCH WALL. SEE DETAIL B4/PP507.
2. 12" IW PIPE. REFER TO CIVIL FOR CONTINUATION.
3. SLEEVE PIPING PASSING THROUGH GRADE BEAMS (TYPICAL).
4. STORM DOWNSPOUT CONNECTION. SEE CIVIL DRAWINGS SHEET CG513 FOR DOWNSPOUT BOOT TRANSITIONING FROM DOWNSPOUT TO UNDERGROUND STORM PIPING.
5. 2" DRAIN LINE SLOPED 1/4" PER FOOT AND TERMINATED AT TRENCH DRAIN, TYPICAL. SEE DETAIL A1/AE623.
6. 4" DRAIN LINE SLOPED 1/4" PER FOOT AND TERMINATED AT TRENCH DRAIN, TYPICAL. SEE DETAIL A1/AE623.

A1 PLUMBING PLAN - UNDERGROUND LEVEL - SECTOR C, BID OPTION

1/8" = 1'-0"



KEYPLAN

0 5' 10' 20' 30'

1/8" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

SYM	DESCRIPTION	DATE	APPR.
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	
3	BY AMENDMENT	1/16/2026	

NAVFAC

JOHN EDWARD BALL
LICENSE No 66893
STATE OF FLORIDA
01/16/2026
PROFESSIONAL ENGINEER
SEAL

BAMFORTH ENGINEERS & SURVEYORS
AE INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	HES	DRW	HES	CHK	DSR
PM/DM	KTB / RLH				
BRANCH MANAGER	ALG				
CHIEF ENG/ARCH	EJA				
FP ENGINEER	DSN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC-CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
HANGAR - PLUMBING PLAN - SECTOR C, BID OPTION

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871495
SHEET 1400 OF 1412

PP100ZC

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://20042 MEAT 502 FS6 Maintenance Hangar/20042 FS6 Maant Hangar_PL_v22024.rvt
1/14/2026 6:01:45 PM