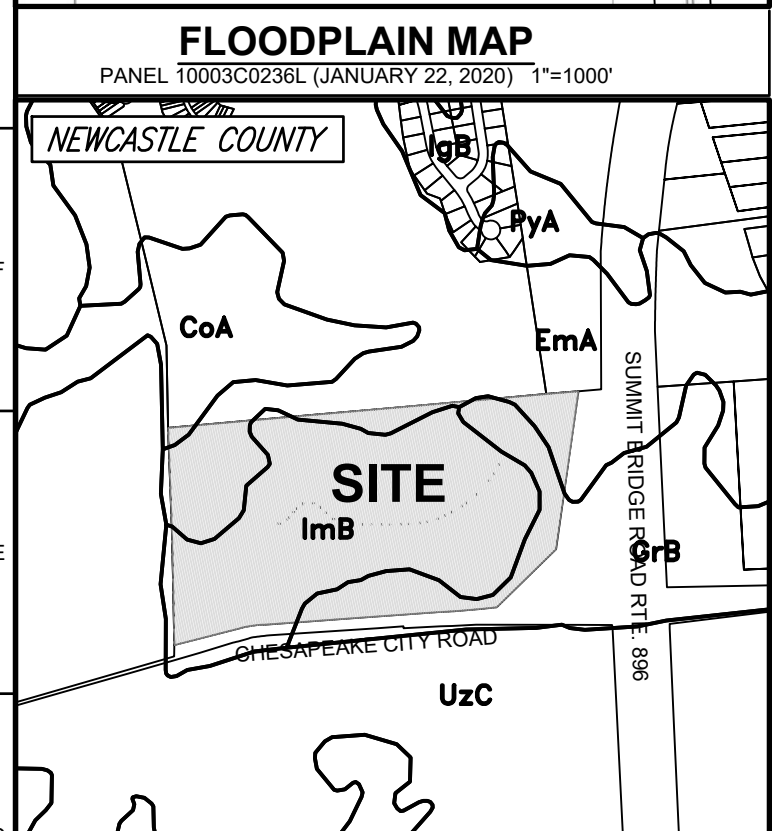
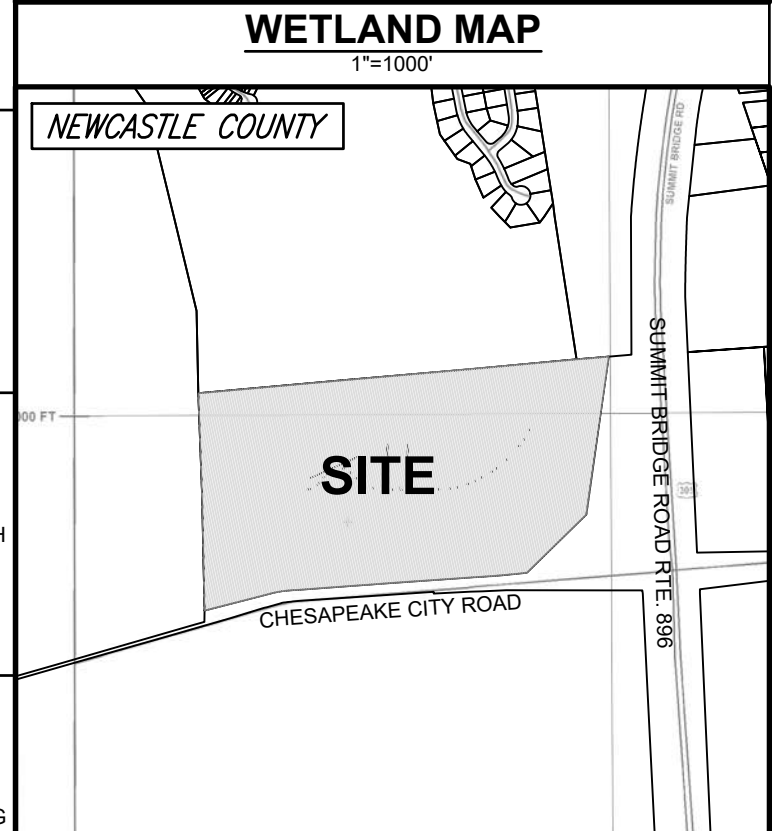
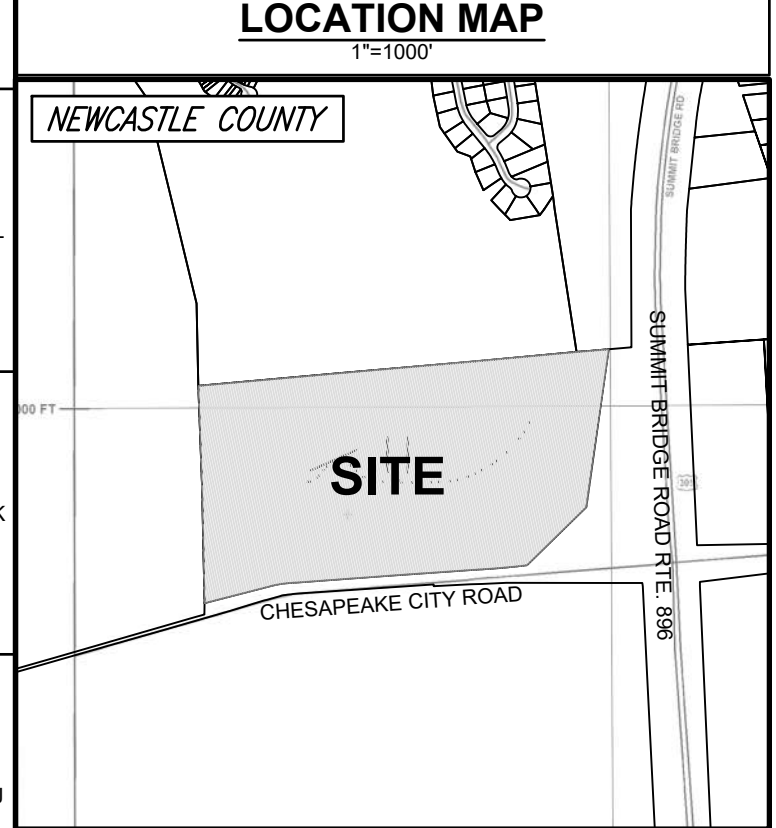
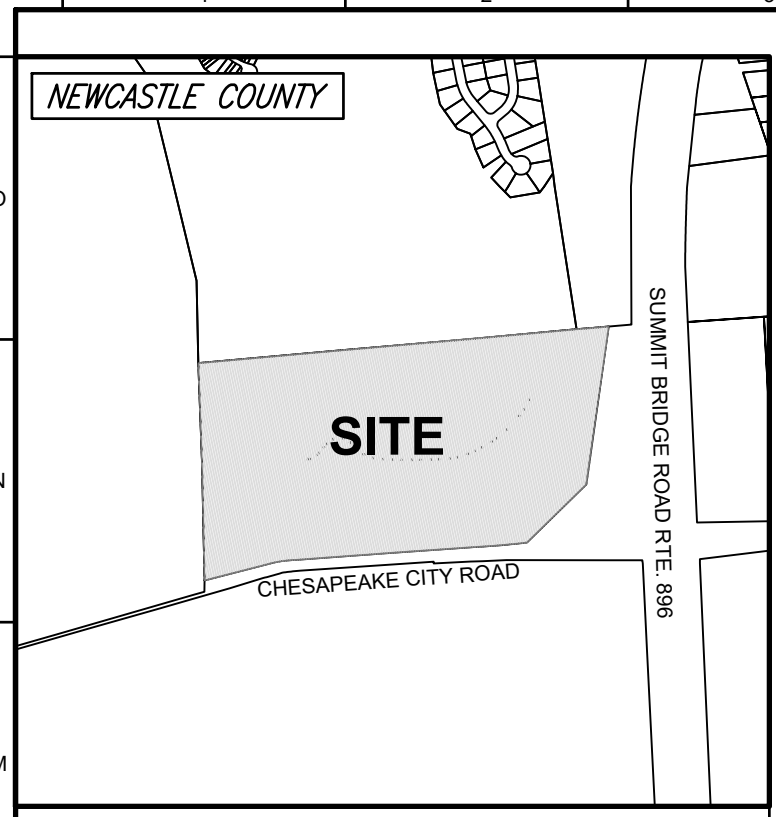
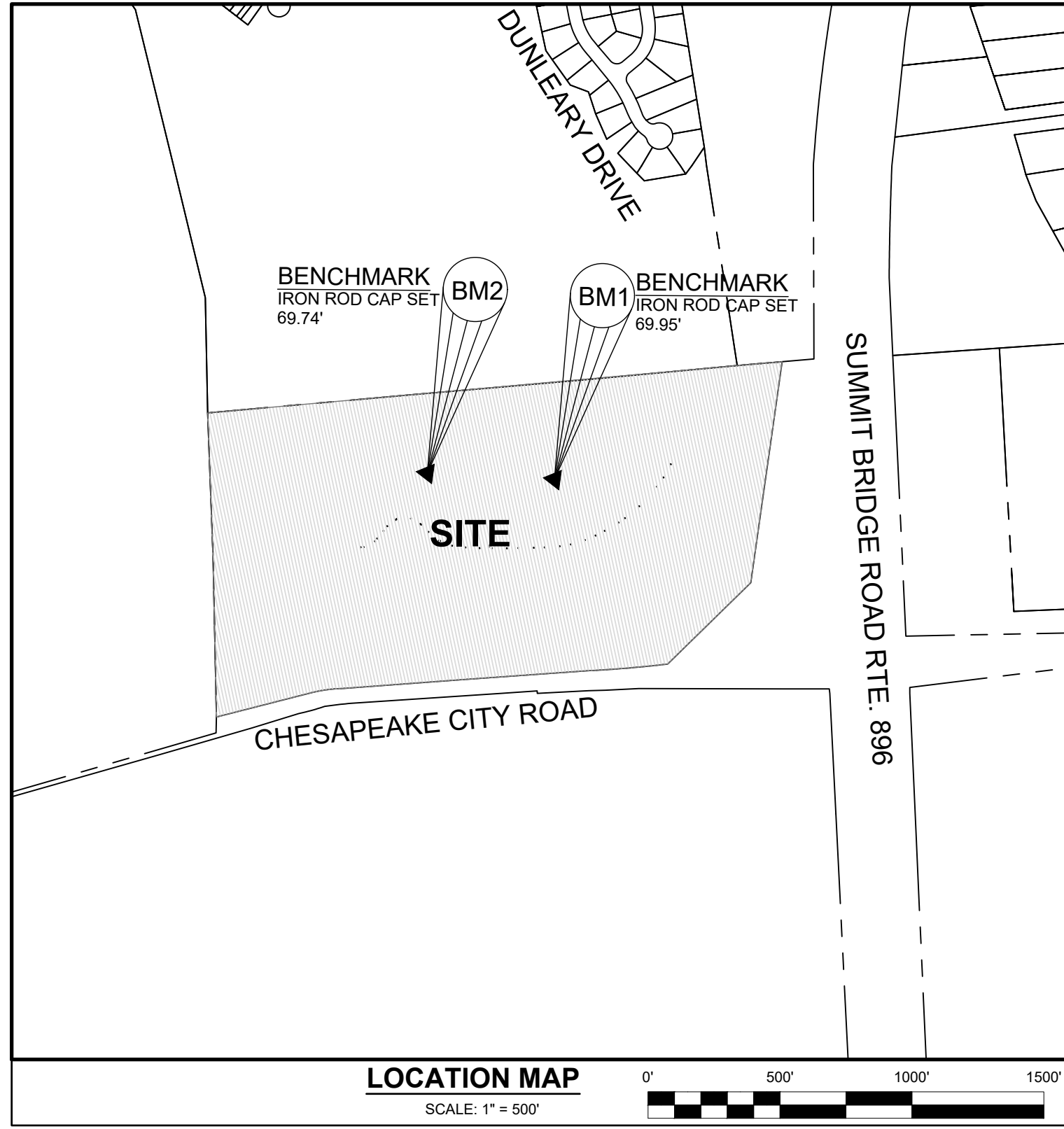


DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION PENCADER HUNDRED DBF # 0586065.B01 JANUARY 2026 MASTER PLAN SET



SOILS DATA		
LABEL	SOIL NAME	TYPE
ImB	INGLESIDE-HAMMONTON-FALLINGSTON COMPLEX	A
GrB	GREENWICH LOAM	B
EmA	ELKTON SILT LOAM	C/D

DATA COLUMN		
1 INSTRUMENT NUMBER	11-050.00-005	
2 DEED REFERENCE	BOOK 2016, PAGE 040	
3 SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701	
4 PLUS NUMBER	N/A	
5 ENGINEER	OWNER	DEVELOPER
DAVIS, BOWEN & FRIEDEL, INC. 1 PARK AVENUE MILFORD, DE 19963 RING W. LARDNER, P.E. PHONE: (302) 424-1441 EMAIL: rwi@dbfinc.com	STATE OF DELAWARE 122 MARTIN LUTHER KING BLVD. DOVER, DELAWARE 19901 JENNIFER COVERDALE PHONE: (302) 738-6644 EMAIL: jennifer.coverdale@delaware.gov	DELAWARE DEPARTMENT OF VETERAN AFFAIRS 802 SILVER LAKE BLVD., SUITE 100 DOVER, DELAWARE 19904 JACQUELINE HAYMAN-CARTER PHONE: (302) 834-4046 EMAIL: jacqueline.hayman-carter@delaware.gov
6 DATUM	HORIZONTAL NAD 83 (DE STATE PLANE)	VERTICAL NAVD 88
7 LAND USE	EXISTING CEMETERY	PROPOSED CEMETERY
8 ZONING	EXISTING SR-SUBURBAN RESERVE	PROPOSED SR-SUBURBAN RESERVE
9 TOTAL UNITS EXISTING/PROPOSED	EXISTING BUILDINGS 0	PROPOSED BUILDINGS 9,600 NICHEs
10 BUILDING CONSTRUCTION	IBC N/A	NFPA N/A
11 UTILITY PROVIDERS	WATER ARTESIAN	SEWER NEWCASTLE COUNTY
12 FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 100030236L, DATED JANUARY 22, 2020.	
13 TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).	
14 GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.	
15 WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.	
16 WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.	
17 SITE COORDINATES	LATITUDE	LONGITUDE
	N 39.325963	W 75.443636
18 INFILTRATION FACILITY	N 39.330114	W 75.444023
19 DISCHARGE LOCATION (EXISTING INLET)	N 39.325980	W 75.444407
20 LOD FOR DISCHARGE LOCATION:	2.44 AC	
21 REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN - FIRE MARSHAL PLAN - ARCHITECTURAL ACCESSIBILITY BOARD	
22 SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026	



BENCHMARK INFORMATION			
BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563654.85	69.74

INDEX OF SHEETS	
GENERAL	
C-001	MASTER TITLE SHEET
C-002	LEGEND
C-003	EXISTING CONDITIONS
C-004	DEMOLITION PLAN
C-102	SITE PLAN
C-103	COLUMBARIUM DETAIL PLAN
C-104	COLUMBARIUM DETAIL PLAN
C-105	COLUMBARIUM DETAIL PLAN
C-201	CONSTRUCTION DETAILS
C-301	GRADING TITLE SHEET
C-302	OVERALL GRADING PLAN
C-303	GRADING PLAN
C-304	GRADING PLAN
C-305	GRADING PLAN
C-401	SSM TITLE SHEET
C-402	SSM PRE-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
C-403	SSM CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
C-404	SSM CONSTRUCTION DETAILS
C-405	SSM CONSTRUCTION DETAILS
C-406	SSM CONSTRUCTION DETAILS
C-407	SSM CONSTRUCTION DETAILS
C-408	SSM CONSTRUCTION DETAILS
C-409	SSM POST CONSTRUCTION PLAN
L-101	LANDSCAPE PLAN
L-102	LANDSCAPE PLAN DETAILS

GENERAL CONSTRUCTION NOTES

- ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS, DATED JANUARY 2025, AND/OR THE DELDOT STANDARD DETAILS, LATEST REVISION, OR AS MODIFIED BY THESE PLANS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK (2023).
- MATCH PROPOSED PAVING TO EXISTING PAVING ELEVATIONS WHERE THEY ADJOIN.
- SAW CUT AT THE JUNCTION FOR ALL EXISTING PAVEMENT AND FOR ALL PAVEMENT REMOVAL.
- PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-282-8555 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
- DAVIS, BOWEN, & FRIEDEL, INC. MAKES NO GUARANTEE AS TO THE EXISTENCE OR NON-EXISTENCE, LOCATION, DEPTH, SIZE OR CONDITION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN NOT ACCESSIBLE FROM THE SURFACE OF THE GROUND. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AT THE TIME THE PLAN WAS PREPARED. THE CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES INVOLVED.

IT IS THE RESPONSIBILITY OF THE OWNER, OR HIS CONTRACTOR, TO VERIFY AND ALLOW FOR THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHIN THE WORK AREA SHOWN ON THIS PLAN. THE CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION OR OTHER CONSTRUCTION AROUND OR IMMEDIATELY ADJACENT TO EXISTING UTILITIES WITHOUT NOTIFYING THE UTILITY OWNERS(S) AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE START OF EXCAVATION OR CONSTRUCTION. TEST PITS FOR UTILITY LOCATIONS MAY OR MAY NOT BE REQUIRED.

PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THE CONTRACTOR EXCAVATE IN THE AREA OF ANY POTENTIAL UTILITY CROSSING TO VERIFY THAT THE UTILITY WILL NOT INTERFERE WITH CONSTRUCTION. IF, AFTER UNCOVERING THE UTILITY, THERE IS ANY QUESTION CONCERNING A POSSIBLE CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT HIS EXPENSE.

- EXISTING AERIAL UTILITIES ARE NOT SHOWN.
- ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE POLICIES, ETC. REQUIRED BY LOCAL STATE AND/OR FEDERAL LAWS SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.

OWNER STATEMENT

I, THE UNDERSIGNED, CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO BE ACT AND DESIRE THE PLAN TO BE RECORDED TO ORDINANCE.

JENNIFER COVERDALE
STATE OF DELAWARE
122 MARTIN LUTHER KING, JR. BLVD.
DOVER, DE 19901

DATE _____

DEVELOPER STATEMENT

I, THE UNDERSIGNED, CERTIFY THAT I AM THE DEVELOPER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO BE ACT AND DESIRE THE PLAN TO BE RECORDED TO ORDINANCE.

JACQUELINE HAYMAN-CARTER
STATE OF DELAWARE
DELAWARE DEPARTMENT OF VETERAN AFFAIRS
802 SILVER LAKE, BLVD., SUITE 100
DOVER, DE 19904

DATE _____

ENGINEER'S STATEMENT

I, RING W. LARDNER, P.E., HEREBY STATE THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

RING W. LARDNER, P.E.
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVE.
MILFORD, DELAWARE, 19963

DATE _____

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS - ENGINEERS - SURVEYORS

MILFORD, DELAWARE
302.424.1441
410.545.9091

**DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	1/27/2026	ADDRESS PER COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn By: CLB
Proj No.: 0586B065.B01

MASTER TITLE SHEET

Dwg No.: **C-001**

L:\0586 State of Delaware\0586065.B01 Columbarium\DESIGN\TITLE SHEET.dwg, Feb 17, 2026, 11:48am, B.U.C.C.



THE PURPOSE OF THIS PLAN IS TO:
ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY.
ADDITIONAL PARKING AND UPGRADE THE ACCESS DRIVE FOR THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING LONGEVITY OF USE.

IMPORTANT - DO NOT DISTRIBUTE
NOTE: THESE DRAWINGS ARE CONFIDENTIAL FOR OFFICIAL USE ONLY. NOT FOR PUBLIC DISTRIBUTION. A DETERMINATION HAS BEEN MADE THAT THE PUBLICATION OF THESE PLANS COULD COMPROMISE PUBLIC SAFETY AND ARE NOT AVAILABLE PURSUANT TO DELAWARE CODE, TITLE 29, § 10002 (1)(17)(a)(2) AND (3).

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BOLLARD	○	●	
CURB, TYPE 1 AND 3	=====	=====	(C)
CURB OPENING WITH SIDEWALK			(A)
FENCE - CHAINLINK OR STRANDED	-x-x-x-x-	-□-□-□-□-	(F)
LAMP AND POST - RESIDENTIAL			
MAILBOX	MB	MB	
TRAFFIC SIGN AND POST			
CURB OPENING			(C)

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
FLARED END SECTION			(FE)
DRAINAGE MANHOLE	⊙		(MH)
DRAINAGE INLET	□		(DI)
DIRECTIONAL FLOW ARROW	→	→	
RIPRAP			(RR)
DRAINAGE PIPE	-----	-----	(P)
UNDERDRAIN		-----	(UD)
UNDERDRAIN OUTLET		-----	(DI)
SAFETY END SECTION			(DI)
BIOFILTRATION SWALE		-x-x-BFS-x-	
DITCH CENTERLINE	-x-x-x-	-x-x-x-	
DRAINAGE JUNCTION BOX	J.B.		(JB)
DRAINAGE PIPE HEADWALL			

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	(A/C)
ABANDON BY OTHERS	(A/O)
ADJUST BY CONTRACTOR	(A/C)
ADJUST BY OTHERS	(A/O)
CONVERT TO JUNCTION BOX	(CJB)
CONVERT TO DRAINAGE MANHOLE	(CMH)
DO NOT DISTURB	(DND)
PEDESTRIAN CONNECTION/TYPE	(DI)
PEDESTRIAN CONNECTION/TYPE WITHOUT DETECTABLE WARNING SYSTEM	(DI)
RELOCATE BY CONTRACTOR	(RL/C)
RELOCATE BY OTHERS	(RL/O)
REMOVE BY CONTRACTOR	(RM/C)
REMOVE BY OTHERS	(RM/O)

UTILITY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
ELECTRIC - UNDERGROUND	UG-E	
ELECTRIC MANHOLE	⊙	
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER	□	□
GAS - UNDERGROUND	UGG	UGG
GAS MANHOLE	⊙	
GAS METER	G.M.	
LIGHT POLE		
GAS VALVE	G.V.	
RAILROAD TRACKS		
SANITARY MAIN	EX-BSS	BSS
SANITARY SEWER MANHOLE	⊙	⊙
SOIL BORING LOCATION		
TELEPHONE TEST POINT	⊞	
UTILITY POLE GUY WIRE ANCHOR	↔	↔
UTILITY POLE	⊙	⊙
WATER MAIN		
WATER - FIRE HYDRANT	↔	
WATER VALVE	•	•
WATER METER/LATERAL		
SANITARY SEWER CLEANOUT/LATERAL	⊙	

NATURAL FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
SHRUBBERY		*
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE LINE		
CONTOUR ELEVATION & LABEL	- - - - -33	- - - - -33
ELEVATION	44.70 x	21.96

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
PERMANENT EASEMENT	- + + - + + -	- + + - + + -
PROPERTY LINE	-----	-----
RIGHT-OF-WAY BASELINE	1+00	1+00
RIGHT-OF-WAY LINE	EX-RW	
TAX DITCH RIGHT OF WAY		TAX RW
DELDOT PERMANENT EASEMENT	PE	PE
TEMPORARY CONSTRUCTION EASEMENT		TCE

SURVEY CONTROL & MONUMENTATION		
FEATURE DESCRIPTION	EXISTING	PROPOSED
SURVEY BENCHMARK LOCATION		
IRON ROD WITH CAP SET		•
CONCRETE MONUMENT	CMF _{CO}	
IRON PIPE FOUND	IPF _O	
IRON ROD FOUND	IRF _O	

MISCELLANEOUS FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
LIMIT OF DISTURBANCE		LOD
WETLAND BOUNDARY - DELINEATED		

DAVIS BOWEN & FRIEDEL, INC.
 ARCHITECTS • ENGINEERS • SURVEYORS
 MILFORD, DELAWARE 410.343.9091
 SALESURY@DAVISBOWENFRIEDEL.COM

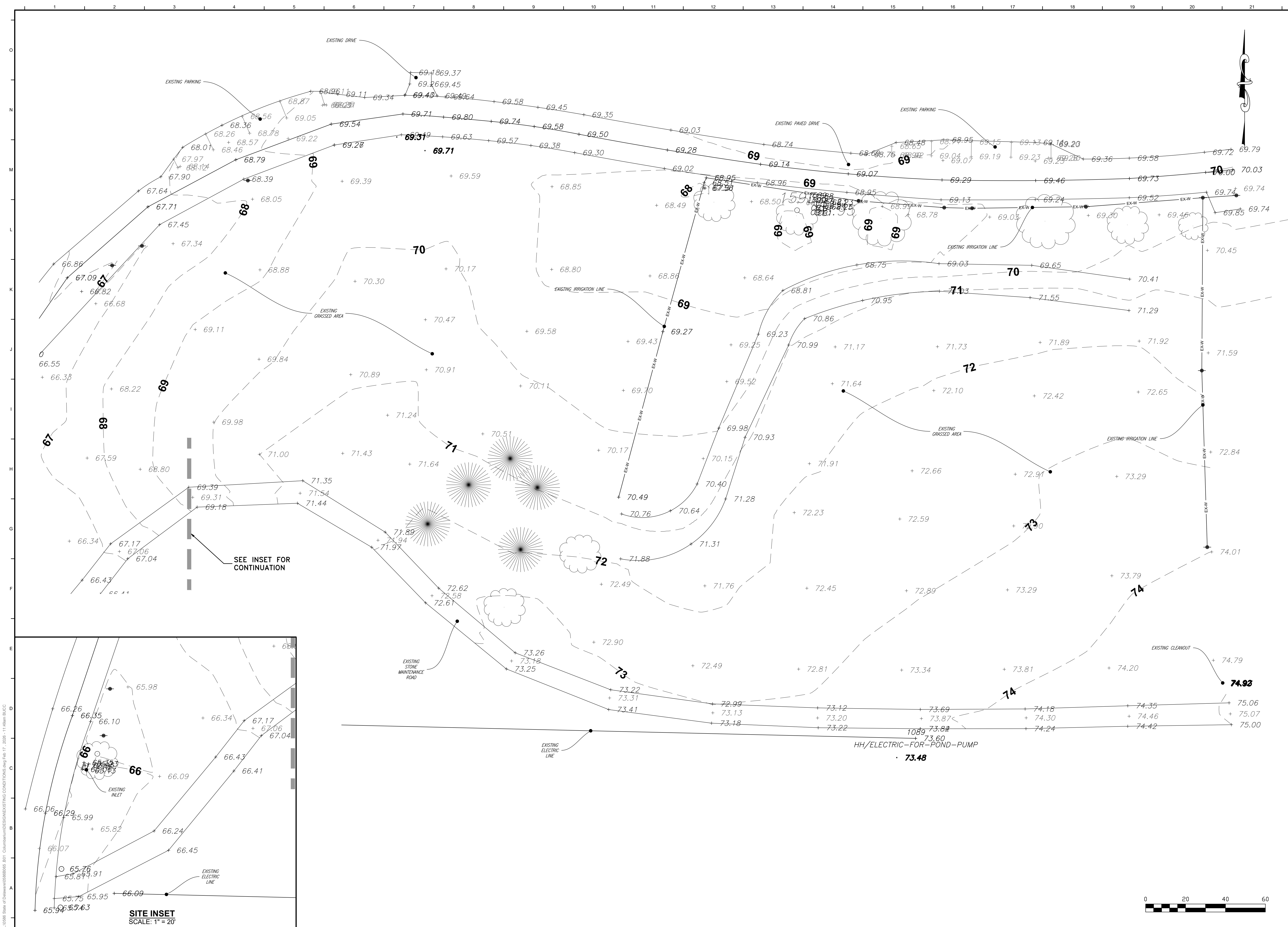
**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED**
 BEAR, NEW CASTLE COUNTY, DELAWARE

NO.	DATE	COMMENTS
1	10/17/2026	ADDRESS DFM COMMENTS

Date: JANUARY 2026
 Scale: AS SHOWN
 Dwn By: CLB
 Proj No.: 0586B065.B01

LEGEND

Dwg No.: **C-002**



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 MILLERSVILLE, MARYLAND
 410.770.4744

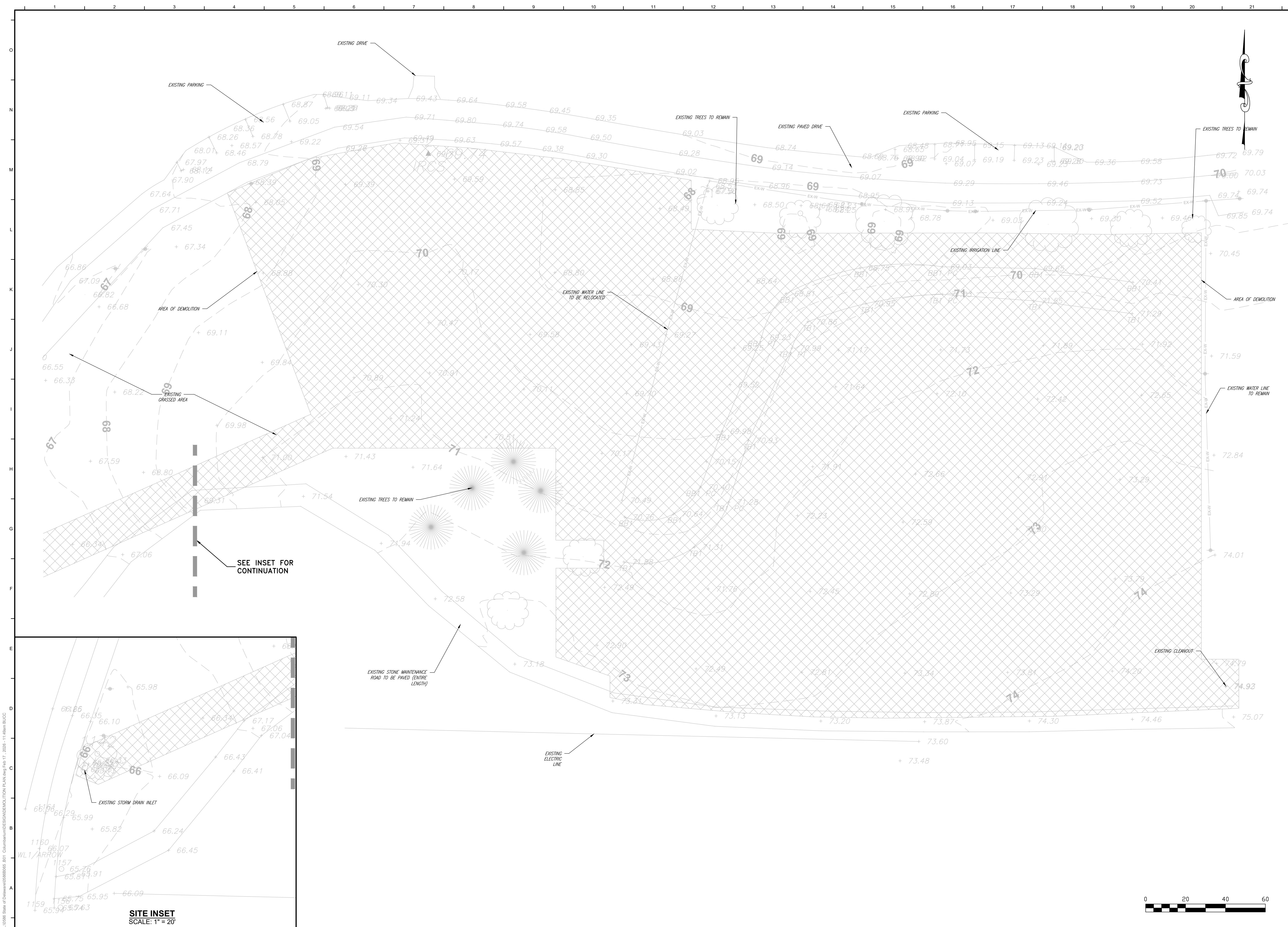
**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	10/17/2025	ADDRESS/DETAILED COMMENTS

Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: R/J/CLB
 Proj No.: 0586B065.B01

EXISTING CONDITIONS

Dwg No.: **C-003**



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**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

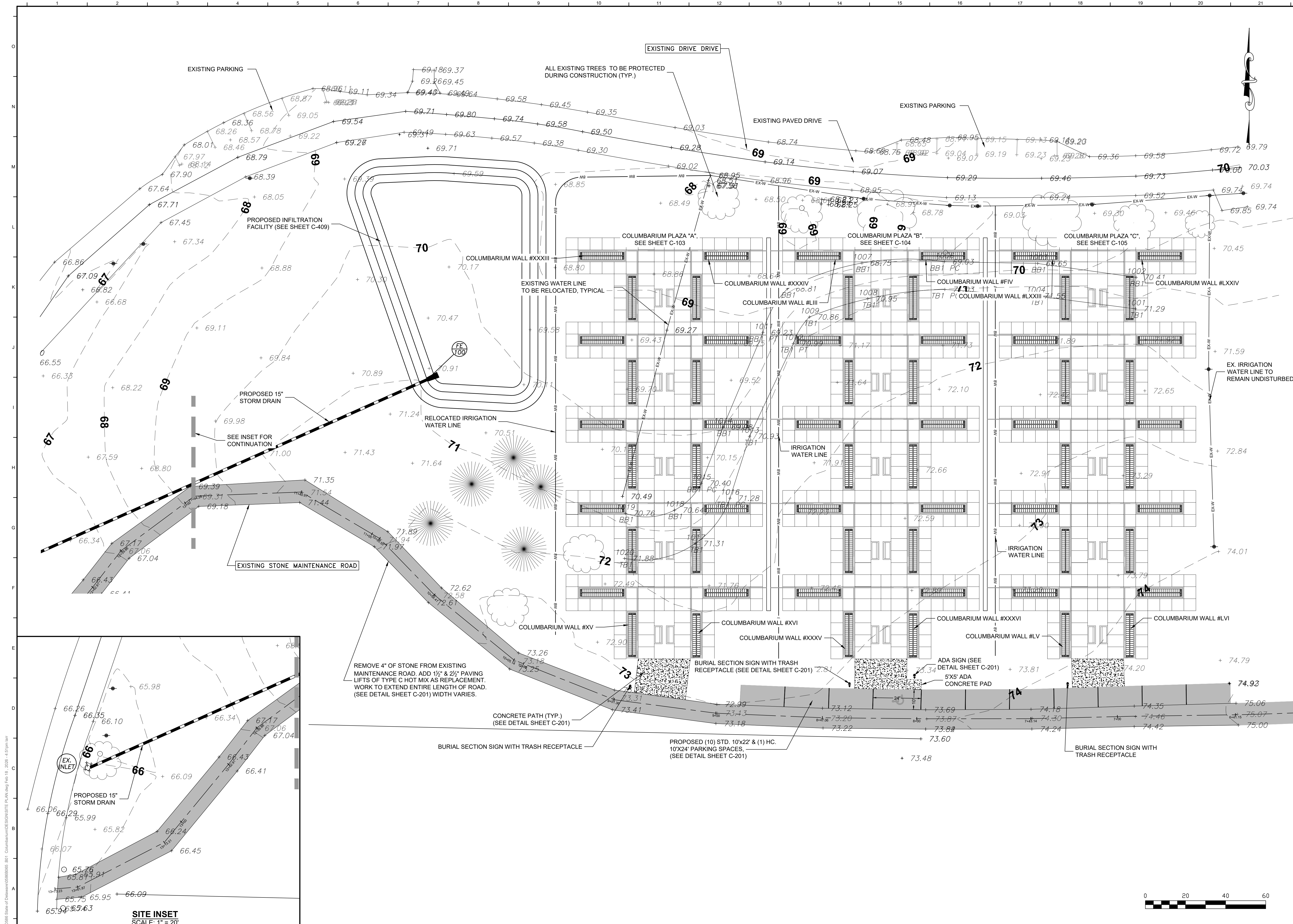
NO.	DATE	COMMENTS
1	10/17/2026	ADDRESS/DEFINITION COMMENTS

Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: CLB
 Proj No.: 0586B065.B01

DEMOLITION PLAN

Dwg No.: **C-004**

L:\0586 State of Delaware\0586B065.B01 Columbarium\DESIGN\DEMOLITION\PLA.dwg Feb 17, 2026 - 11:48am RLJCC



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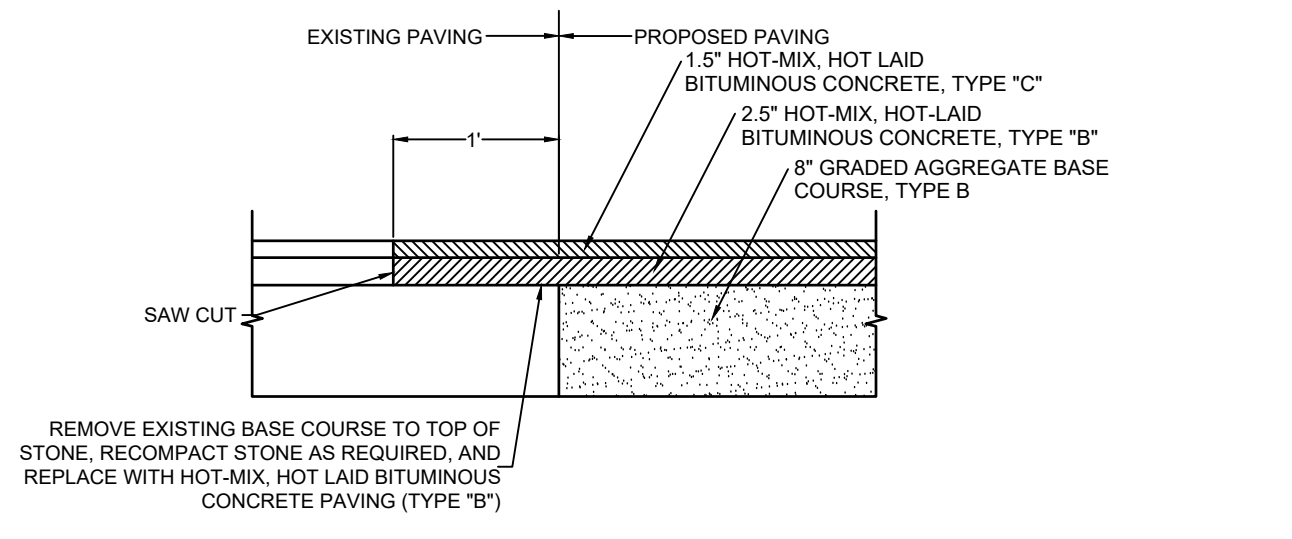
**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	02/17/2026	ADDRESS DFM COMMENTS

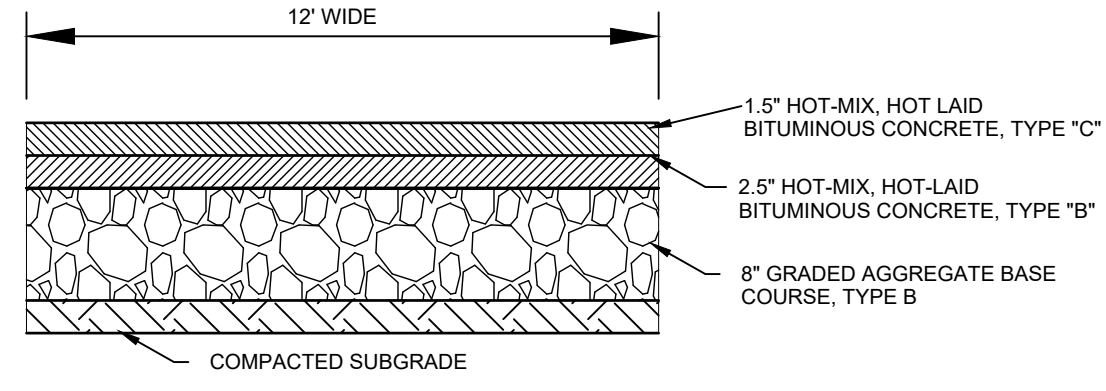
Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: CLB
 Proj No.: 0586B065.B01

SITE PLAN
 Dwg No.: **C-102**

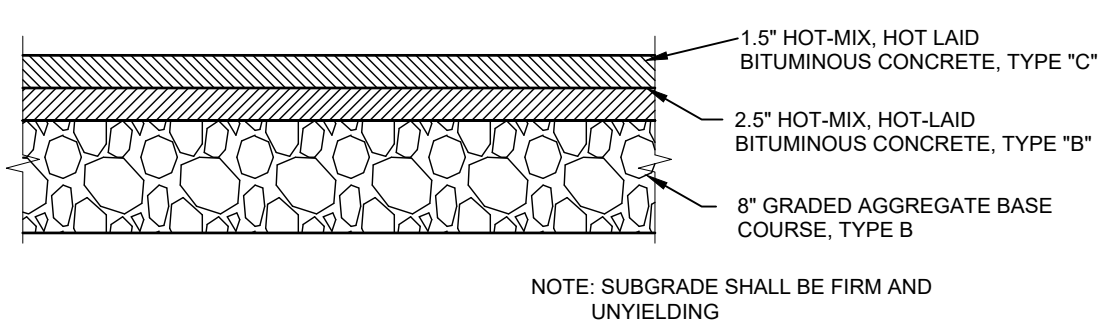
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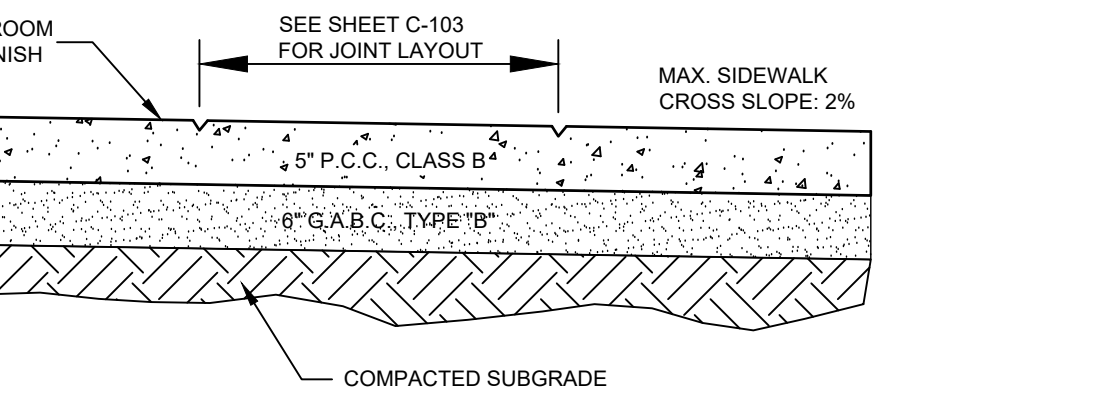
TYPICAL PAVEMENT TIE-IN
NOT TO SCALE



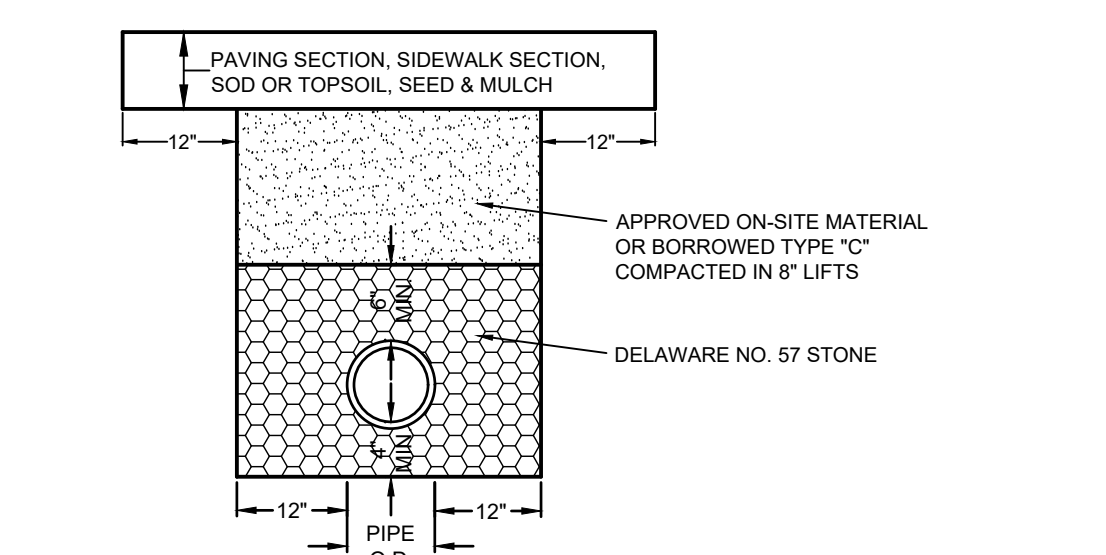
MODIFIED MAINTENANCE ROAD SECTION
NOT TO SCALE



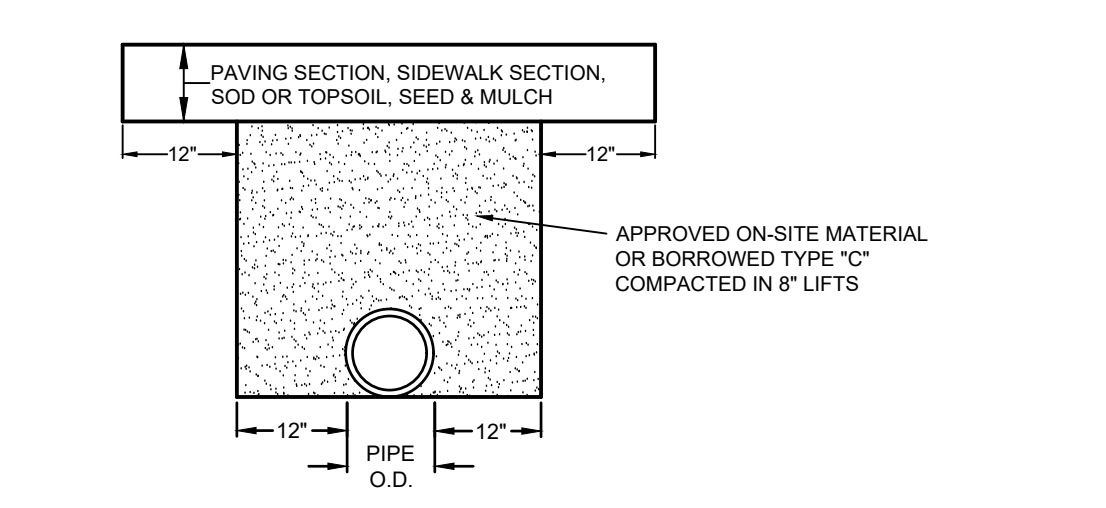
PAVING SECTION DETAIL
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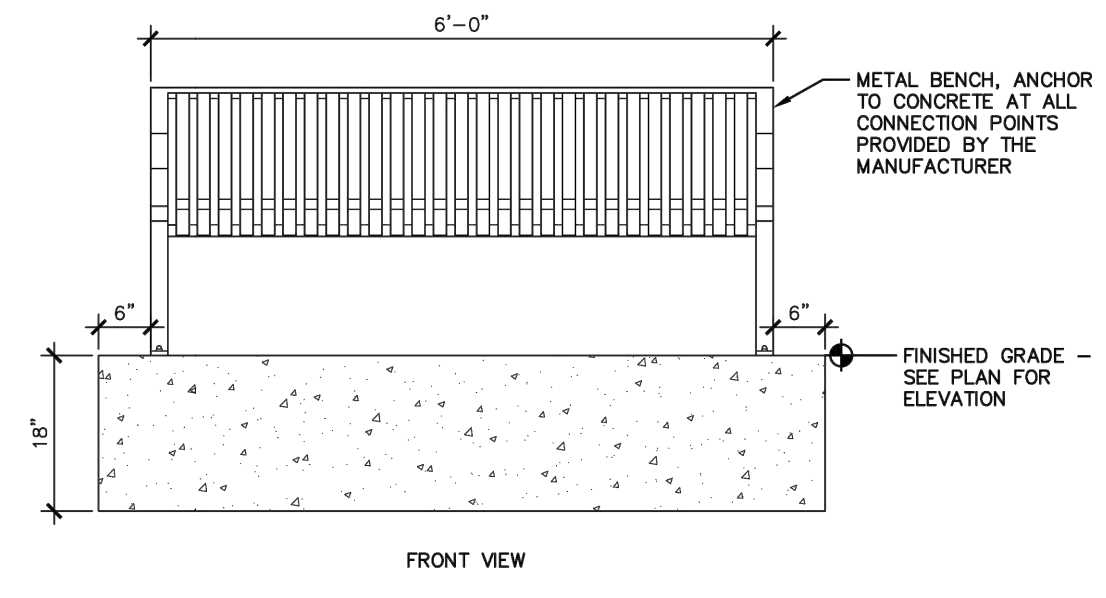
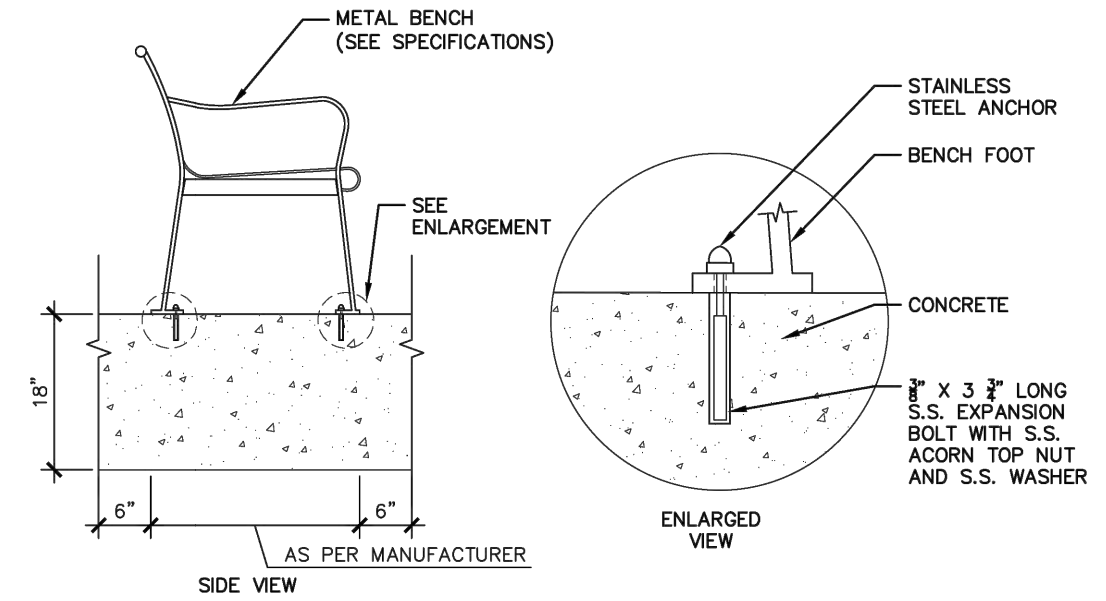
5" PORTLAND CEMENT CONCRETE SIDEWALK DETAIL
NOT TO SCALE



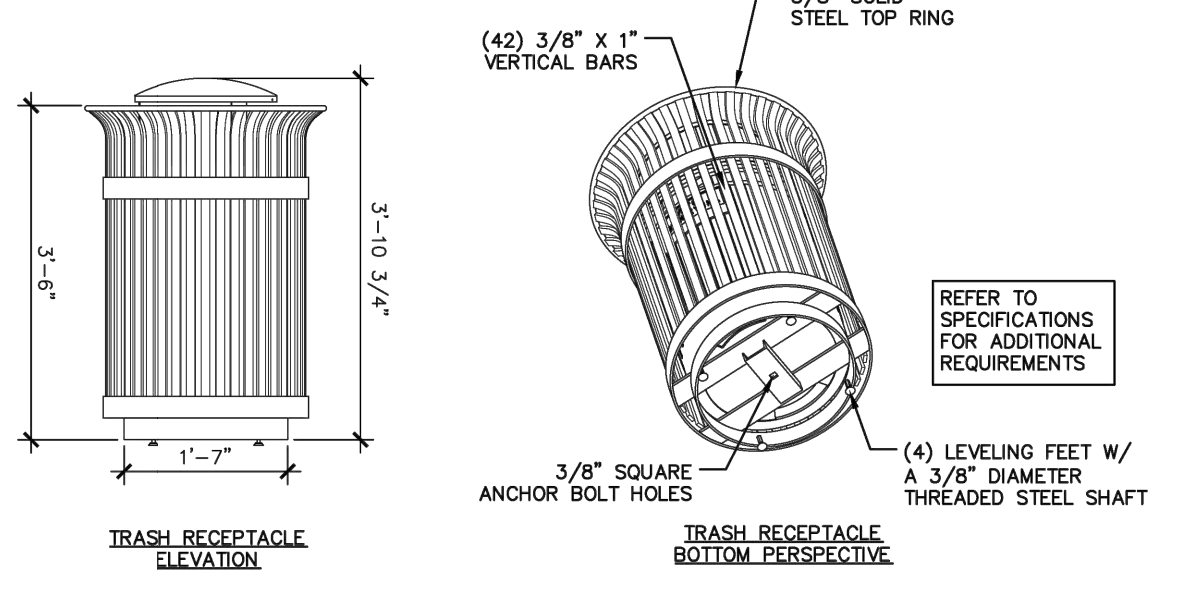
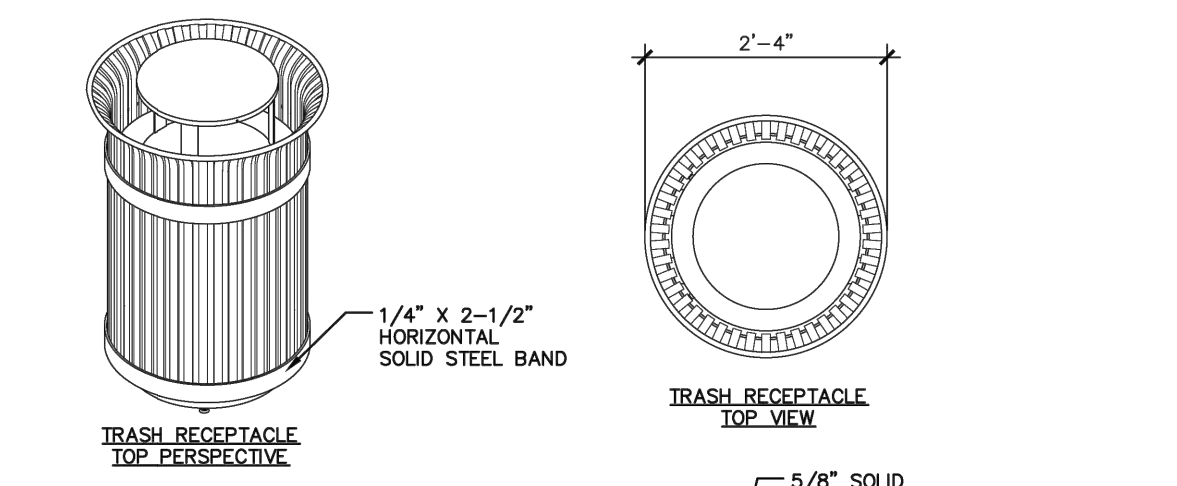
TYPICAL TRENCH DETAIL (HDPE PIPE)
NOT TO SCALE



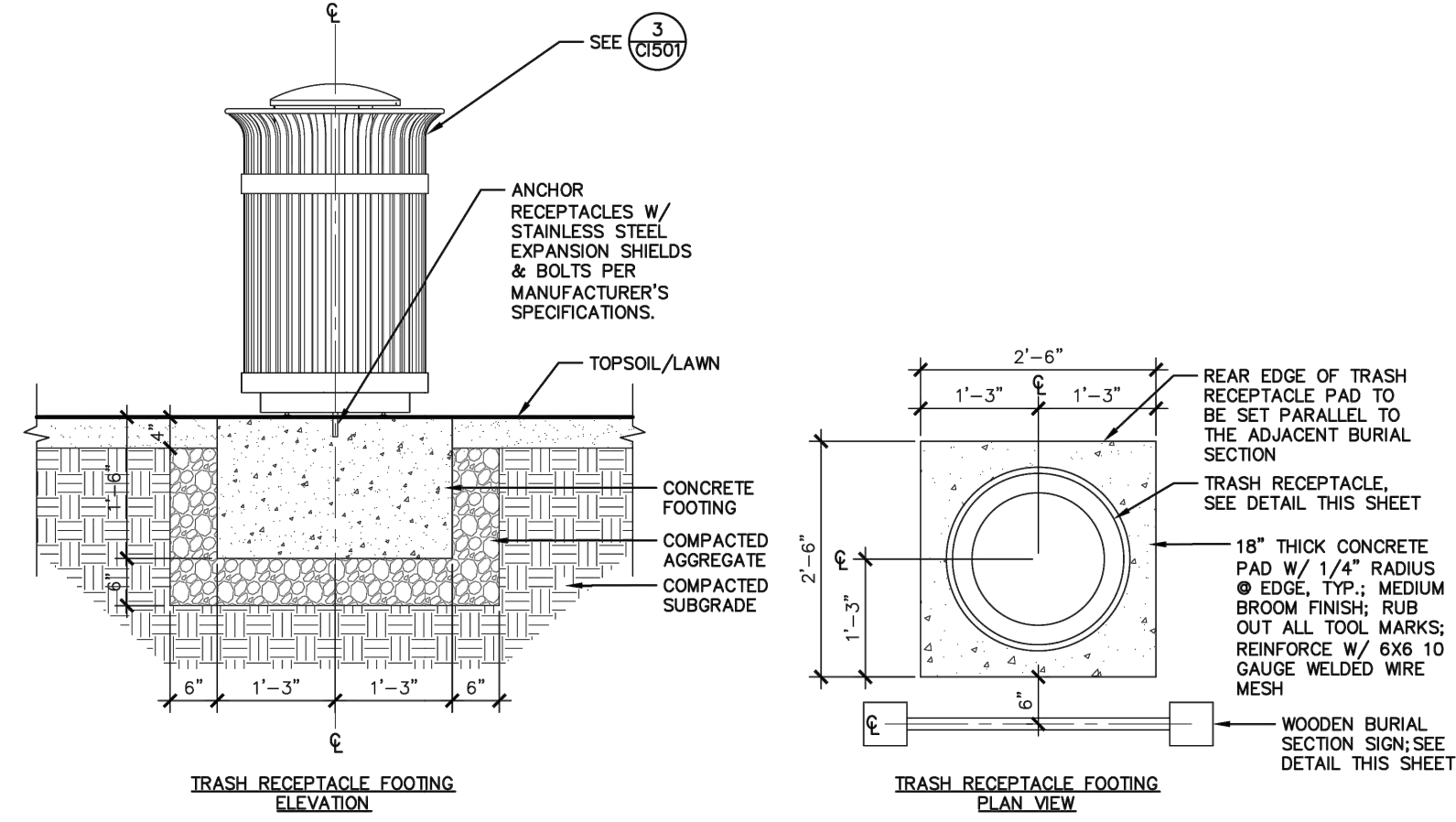
TYPICAL TRENCH DETAIL
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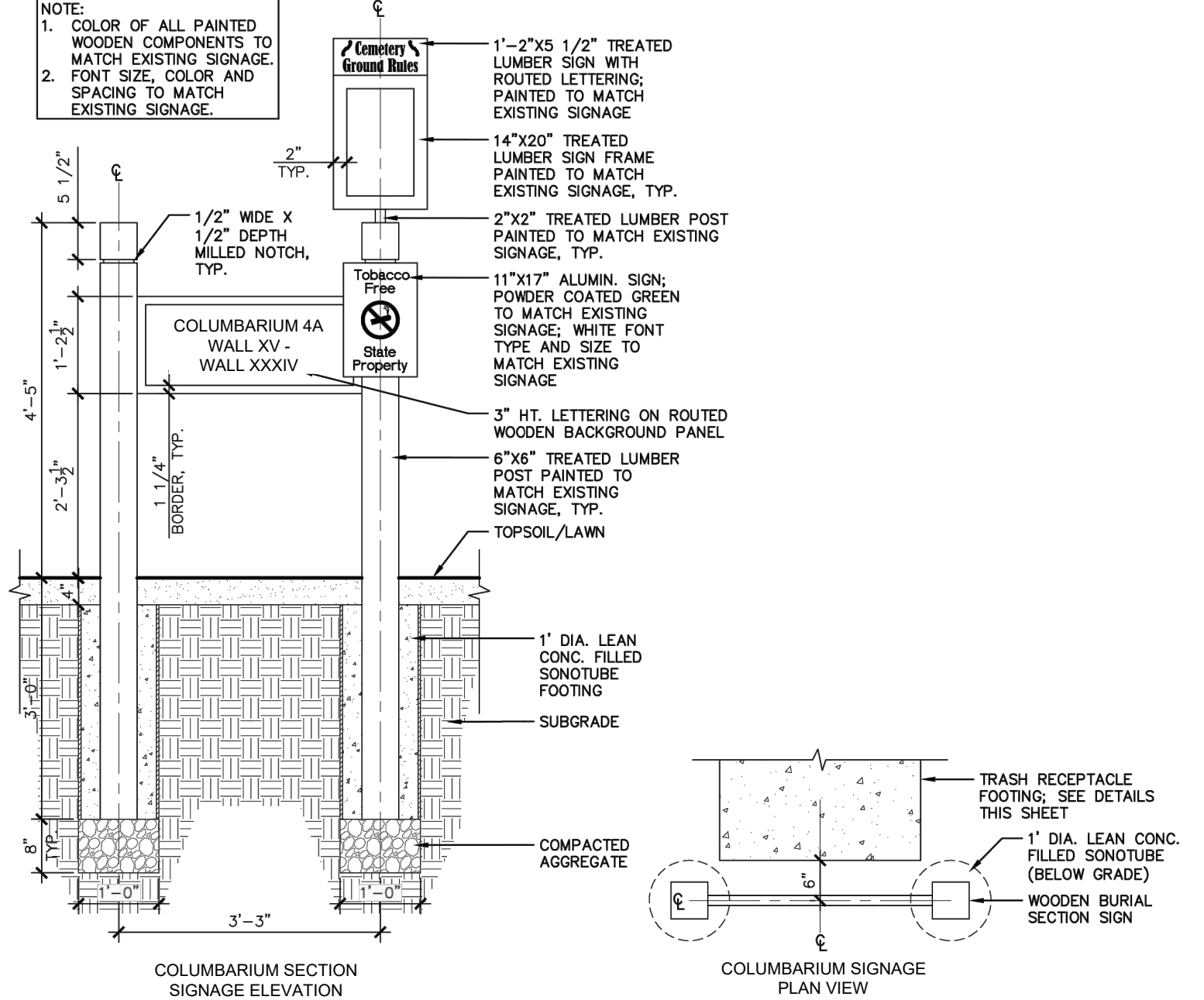
BENCH INSTALLATION DETAILS
NOT TO SCALE



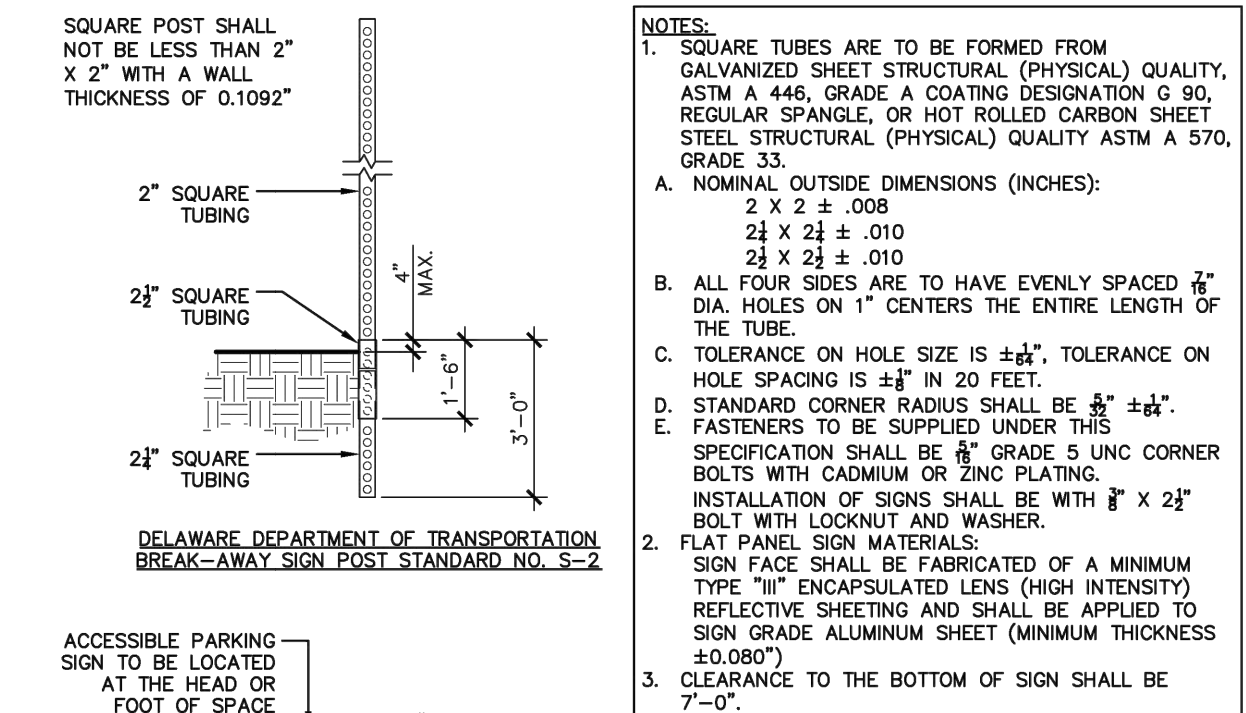
TRASH RECEPTACLE
NOT TO SCALE



TRASH RECEPTACLE FOOTING
NOT TO SCALE



COLUMBARIUM SIGNAGE
NOT TO SCALE



TYPICAL ACCESSIBLE PARKING SIGNAGE
NOT TO SCALE

NOTES:
1. SQUARE TUBES ARE TO BE FORMED FROM GALVANIZED SHEET STRUCTURAL (PHYSICAL) QUALITY, ASTM A 446, GRADE A COATING DESIGNATION G 90, REGULAR SPANGLER, OR HOT ROLLED CARBON SHEET STEEL STRUCTURAL (PHYSICAL) QUALITY ASTM A 570, GRADE 33.
A. NOMINAL OUTSIDE DIMENSIONS (INCHES):
2 1/2 x 2 1/2 ± .010
2 1/2 x 2 1/2 ± .010
B. ALL FOUR SIDES ARE TO HAVE EVENLY SPACED 1/4" DIA. HOLES ON 1" CENTERS THE ENTIRE LENGTH OF THE TUBE.
C. TOLERANCE ON HOLE SIZE IS ±.01". TOLERANCE ON HOLE SPACING IS ±.01" IN 20 FEET.
D. STANDARD CORNER RADIUS SHALL BE ±.01".
E. FASTENERS TO BE SUPPLIED UNDER THIS SPECIFICATION SHALL BE 1/2" GRADE 5 UNC CORNER BOLTS WITH CADMIUM OR ZINC PLATING.
INSTALLATION OF SIGNS SHALL BE WITH 8" x 2 1/2" BOLT WITH LOCKNUT AND WASHER.
2. FLAT PANEL SIGN MATERIALS:
SIGN FACE SHALL BE FABRICATED OF A MINIMUM TYPE "III" ENCAPSULATED LENS (HIGH INTENSITY) REFLECTIVE SHEETING AND SHALL BE APPLIED TO SIGN GRADE ALUMINUM SHEET (MINIMUM THICKNESS ±0.080")
3. CLEARANCE TO THE BOTTOM OF SIGN SHALL BE 7'-0".

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
MILFORD, DELAWARE 19966
BALTIMORE, MARYLAND 21201
410.767.1411

DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

NO.	DATE	COMMENTS
1	02/17/2026	ADDRESS DFM COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
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Proj No.: 0586B065.B01

CONSTRUCTION DETAILS

Dwg No.: **C-201**

DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION

PENCADER HUNDRED

DBF # 0586065.B01

JANUARY 2026

GRADING PLANS

ENGINEER'S STATEMENT

"I, THE UNDERSIGNED, HEREBY STATE THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE AND THAT ALL OF THE INFORMATION ON THIS PLAN IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY ACCEPTED SURVEYING STANDARDS AND PRACTICES AND BY THE NEW CASTLE COUNTY UNIFIED DEVELOPMENT CODE."

RING W. LARDNER, P.E.
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVENUE
MILFORD, DELAWARE, 19963

DATE

OWNER'S STATEMENT

"I, UNDERSIGNED, HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY WHICH IS THE SUBJECT OF THIS PLAN AND THAT THE LAND USE ACTION PROPOSED BY THIS PLAN IS MADE AT MY DIRECTION AND THAT I AUTHORIZE THIS PLAN TO BE APPROVED PURSUANT TO THE SITE PLAN DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION PLAN IN ACCORDANCE WITH THE REGULATIONS OF THE NEW CASTLE COUNTY UNIFIED DEVELOPMENT CODE."

JENNIFER COVERDALE
STATE OF DELAWARE
122 MARTIN LUTHER KING BLVD.
DOVER, DELAWARE 19901

DATE

**DAVIS
BOWEN &
FRIEDEL, INC.**
ARCHITECTS • ENGINEERS • SURVEYORS
MILFORD, DELAWARE
110.70.7474
BALTIMORE, MARYLAND
302.424.1411

**DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED**
BEAR, NEW CASTLE COUNTY, DELAWARE

NO.	DATE	COMMENTS
1	1/27/2026	ADDRESS PER COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn By: CLB
Proj No.: 0586065.B01

**GRADING
TITLE SHEET**

Dwg No.: **C-301**

NEWCASTLE COUNTY

SITE

LOCATION MAP
1"=1000'

NEWCASTLE COUNTY

SITE

WETLAND MAP
1"=1000'

NEWCASTLE COUNTY

SITE

FLOODPLAIN MAP
PANEL 10003C0238L (JANUARY 22, 2020) 1"=1000'

NEWCASTLE COUNTY

SITE

SOILS MAP
1"=1000'

SOILS DATA

LABEL	SOIL NAME	TYPE
ImB	INGLESIDE-HAMMONTON-FALLINGSTON COMPLEX	A
GrB	GREENWICH LOAM	B
EmA	ELKTON SILT LOAM	C/D

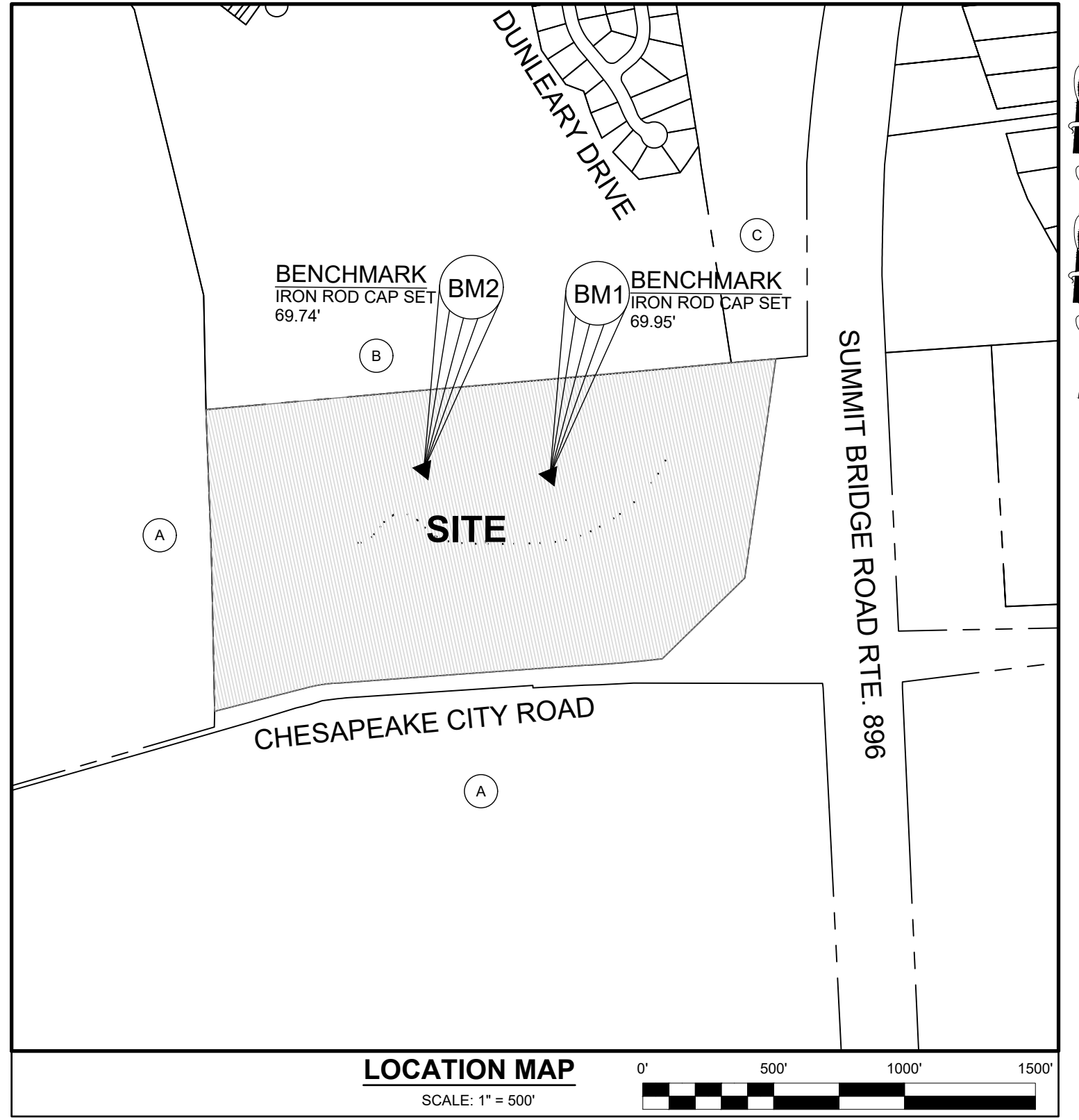
THE PURPOSE OF THIS PLAN IS TO:

ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY. ADDITIONAL PARKING AND UPGRADE THE ACCESS DRIVE FOR THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING LONGEVITY OF USE.

FOR USE BY DEPARTMENT OF LAND USE

DATA COLUMN

1 INSTRUMENT NUMBER	11-050-00-005	DEVELOPER	DELAWARE DEPARTMENT OF VETERAN AFFAIRS
2 DEED REFERENCE	BOOK 2016, PAGE 040	OWNER	STATE OF DELAWARE
3 SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701	OWNER	122 MARTIN LUTHER KING BLVD. DOVER, DELAWARE 19901
4 PLUS NUMBER	N/A	OWNER	JENNIFER COVERDALE PHONE: (302) 424-1441 EMAIL: rwl@dbfinc.com
5 ENGINEER	RING W. LARDNER, P.E.	OWNER	JENNIFER COVERDALE PHONE: (302) 424-1441 EMAIL: jennifer.coverdale@delaware.gov
6 DATUM	HORIZONTAL NAD 83 (DE STATE PLANE)	OWNER	STATE OF DELAWARE
7 LAND USE	EXISTING CEMETERY	OWNER	STATE OF DELAWARE
8 ZONING	EXISTING SR-SUBURBAN RESERVE	OWNER	STATE OF DELAWARE
9 TOTAL UNITS EXISTING/PROPOSED	0/0	OWNER	STATE OF DELAWARE
10 BUILDING CONSTRUCTION	IBC N/A	OWNER	STATE OF DELAWARE
11 UTILITY PROVIDERS	WATER ARTESIAN	OWNER	STATE OF DELAWARE
12 FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10003C0238L, DATED JANUARY 22, 2020.		
13 TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).		
14 GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.		
15 WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.		
16 WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.		
17 SITE COORDINATES	LATITUDE	LONGITUDE	
	N 39.325963	W 75.443638	
18 INFILTRATION FACILITY	N 39.330114	W 75.444023	
19 DISCHARGE LOCATION (EXISTING INLET)	N 39.325980	W 75.444407	
20 LOD FOR DISCHARGE LOCATION:	2.44 AC		
21 REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN - FIRE MARSHAL PLAN - ARCHITECTURAL ACCESSIBILITY BOARD		
22 SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026		



BENCHMARK INFORMATION

BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563,654.85	69.74

INDEX OF SHEETS

GENERAL	
C-301	GRADING TITLE SHEET
C-302	OVERALL GRADING PLAN
C-303	GRADING PLAN
C-304	GRADING PLAN
C-305	GRADING PLAN

GENERAL CONSTRUCTION NOTES

- ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS, DATED JANUARY 2025, AND/OR THE DELDOT STANDARD DETAILS, LATEST REVISION, OR AS MODIFIED BY THESE PLANS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK (2023).
- MATCH PROPOSED PAVING TO EXISTING PAVING ELEVATIONS WHERE THEY ADJOIN.
- SAW CUT AT THE JUNCTION FOR ALL EXISTING PAVEMENT AND FOR ALL PAVEMENT REMOVAL.
- PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-282-8555 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
- DAVIS, BOWEN & FRIEDEL, INC. MAKES NO GUARANTEE AS TO THE EXISTENCE OR NON-EXISTENCE, LOCATION, DEPTH, SIZE OR CONDITION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN NOT ACCESSIBLE FROM THE SURFACE OF THE GROUND. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AT THE TIME THE PLAN WAS PREPARED. THE CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES INVOLVED.
- IT IS THE RESPONSIBILITY OF THE OWNER, OR HIS CONTRACTOR, TO VERIFY AND ALLOW FOR THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHIN THE WORK AREA SHOWN ON THIS PLAN. THE CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION OR OTHER CONSTRUCTION AROUND OR IMMEDIATELY ADJACENT TO EXISTING UTILITIES WITHOUT NOTIFYING THE UTILITY OWNERS(S) AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE START OF EXCAVATION OR CONSTRUCTION. TEST PITS FOR UTILITY LOCATIONS MAY OR MAY NOT BE REQUIRED.
- PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THE CONTRACTOR EXCAVATE IN THE AREA OF ANY POTENTIAL UTILITY CROSSING TO VERIFY THAT THE UTILITY WILL NOT INTERFERE WITH CONSTRUCTION. IF, AFTER UNCOVERING THE UTILITY, THERE IS ANY QUESTION CONCERNING A POSSIBLE CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT HIS EXPENSE.
- EXISTING AERIAL UTILITIES ARE NOT SHOWN.
- ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE POLICIES, ETC. REQUIRED BY LOCAL STATE AND/OR FEDERAL LAWS SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.

GENERAL CONSTRUCTION NOTES (CONT.)

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS SUFFICIENT COVER ON ALL PIPES DURING CONSTRUCTION TO PREVENT FAILURE OF PIPES.
- ALL SIGNING, TRAFFIC CONTROL AND SAFETY SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL OF THE DIVISION OF HIGHWAYS. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL PROPOSED SIGNAGE TO REQUIRE A SEPARATE PERMIT FROM SUSSEX COUNTY.
- PAINT STRIPING AND GRAPHICS FOR LONGITUDINAL STRIPING SHALL BE RESIN PAINT. LATERAL STRIPING/SHAPES SHALL BE ALKYD THERMOPLASTIC TAPE/SYMBOL.
- ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTION SHALL BE MARKED IN ACCORDANCE WITH DELAWARE STATE FIRE PREVENTION REGULATIONS AND PER THE APPROVED FIRE MARSHAL SITE PLAN.
- ALL PROPOSED UNDERGROUND UTILITIES SHALL BE MARKED WITH 6-INCH WIDE (MIN.) METALLIC MARKING TAPE OF APPROPRIATE COLOR AND MESSAGE TO CONFORM TO UTILITY BURIED BENEATH IT AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- ALL UTILITY EXCAVATION SHALL BE KEPT DRY AT ALL TIMES.
- 4" PVC PIPE SLEEVES TO BE PROVIDED FOR ALL SIGNS IN SIDEWALK AREAS.
- ALL AREAS NOT COVERED BY PAVING OR BUILDING SHALL RECEIVE 6" MINIMUM OF TOPSOIL, SEED, AND STRAW MULCH OR MATTING (AS APPLICABLE) AS SOON AS FINAL GRADING IS COMPLETE.
- NO DEBRIS SHALL BE BURIED ON SITE.
- ANY EXCESS EXCAVATION AND TOPSOIL SHALL BE REMOVED FROM THE SITE.
- PROVIDE EROSION CONTROL MATTING ON ALL SLOPES 3:1 OR STEEPER AND IN ALL OPEN CHANNELS.
- CONCRETE SIDEWALKS SHALL BE 3,000 PSI PORTLAND CEMENT CONCRETE, 4" THICK, ON 4" GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE NOTED.
- MINIMUM COMPACTION SHALL BE AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- TOTAL LIMIT OF DISTURBANCE: XXX'XXX± S.F. (XXX± AC.)
- EARTHWORK FROM BULK GRADING IS PROPOSED TO LEAVE THE PROJECT SITE. NET CUT = 2,300CY.



**Know what's below.
Call before you dig.**
MISS UTILITY PHONE: 1-800-282-8555
PROTECT YOURSELF - GIVE THREE WORKING DAYS NOTICE

THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 104,990 SQUARE FEET.

IMPORTANT - DO NOT DISTRIBUTE
NOTE: THESE DRAWINGS ARE CONFIDENTIAL FOR OFFICIAL USE ONLY. NOT FOR PUBLIC DISTRIBUTION. A DETERMINATION HAS BEEN MADE THAT THE PUBLICATION OF THESE PLANS COULD COMPROMISE PUBLIC SAFETY AND ARE NOT AVAILABLE PURSUANT TO DELAWARE CODE, TITLE 29, § 10002 (1)(17)(a)(2) AND (3).

ADJACENT PROPERTY OWNERS

PARCEL#	PLAT #	OWNER	ADDRESS	DEED	ZONING
A 11-054-00-001		U.S. OF AMERICA	3726 SUMMIT BRIDGE ROAD BEAR, DE 19701	860 / 264	SR-SUBURBAN RESERVE
B 11-046-40-262		BRENNAN ESTATES	0 BRENNAN BLVD. BEAR, DE 19701	20010703 / 0053386	NCB-S-SINGLE FAMILY / NCH-TOWNHOUSES
C 11-047-00-025		STATE OF DELAWARE	0 SUMMIT BRIDGE ROAD BEAR, DE 19701	665 / 449	S-SUBURBAN



SEE SHEET C-304 FOR CONTINUATION

SEE SHEET C-305 FOR CONTINUATION

FOR USE BY DEPARTMENT OF LAND USE

REMOVE 4" OF STONE FROM EXISTING MAINTENANCE ROAD. ADD 1/2" & 2" PAVING LIFTS OF TYPE C AND TYPE S NOT MIX AS REPLACEMENT. WORK TO EXTEND ENTIRE LENGTH OF ROAD. SEE DETAIL ON SHEET C-201. (WIDTH VARIES)

DAVIS BOWEN & FRIEDEL, INC.
 ARCHITECTS • ENGINEERS • SURVEYORS
 BALTIMORE, DELAWARE 410.761.1441
 WASHINGTON, D.C. 20004 202.241.1441
 ANNAPOLIS, MARYLAND 410.761.1441

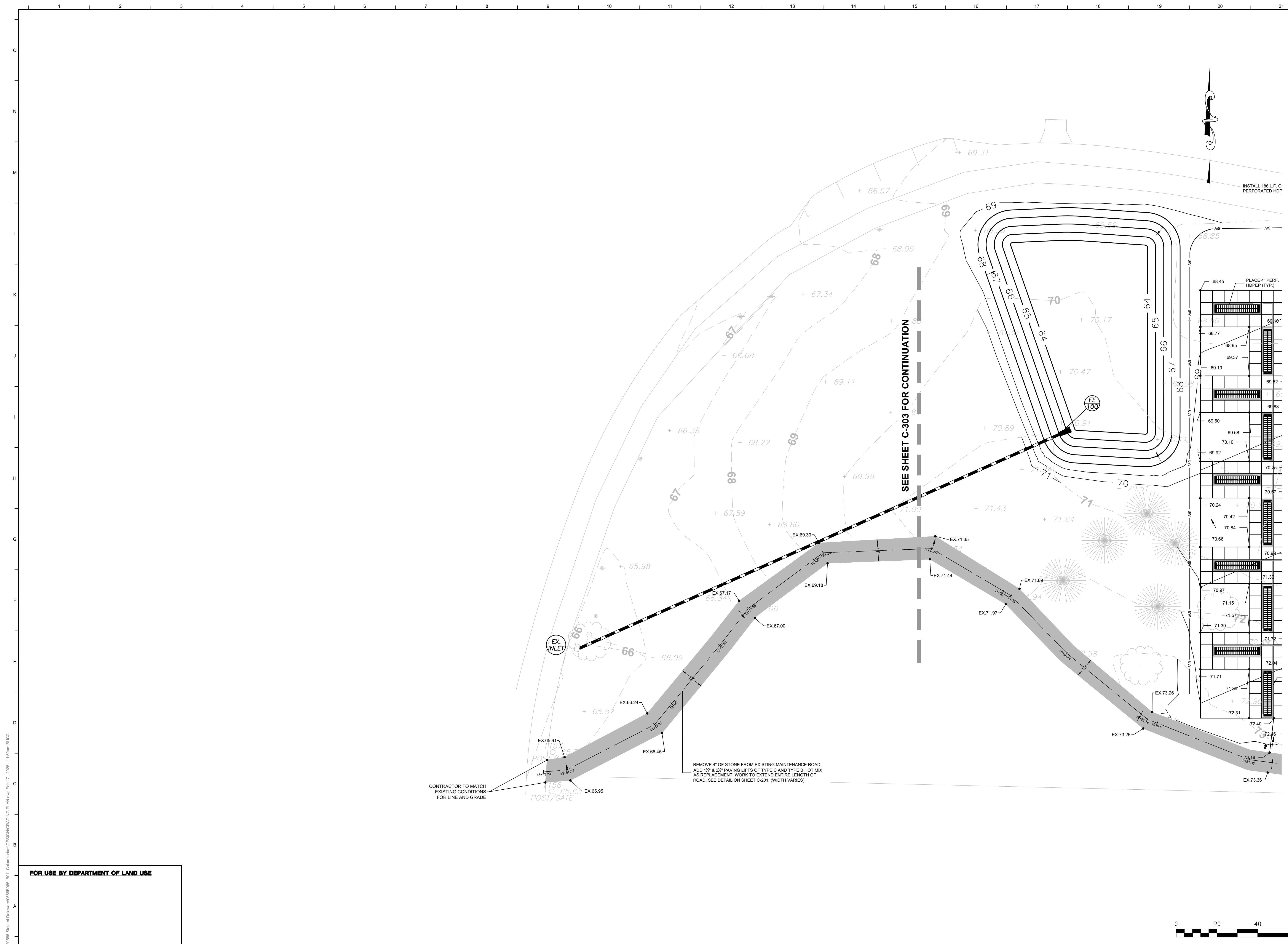
**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	02/17/2026	ADDRESS DFM COMMENTS

Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: CLB
 Proj No.: 0586B065.B01

GRADING PLAN

Dwg No.: **C-303**



L:\0586 State of Delaware\0586065.B01 Columbarium\DESIGN\GRADING PLAN.dwg File: 17_2025 - 1:15pm EUDCC

FOR USE BY DEPARTMENT OF LAND USE

DAVIS BOWEN & FRIEDEL, INC.
 ARCHITECTS • ENGINEERS • SURVEYORS
 BALTIMORE, MARYLAND 410.543.9091
 MILFORD, DELAWARE 302.421.1411

**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	10/17/2025	ADDRESS DEFN COMMENTS

Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: CLB
 Proj No.: 0586B065.B01

GRADING PLAN

Dwg No.: **C-304**

DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION C&D CANAL WEST / CHESAPEAKE BAY WATERSHED PENCADER HUNDRED

DBF # 0586065.B01

JANUARY 2026

SEDIMENT AND STORMWATER CONSTRUCTION PLANS

DNREC PROJECT # 2025-117

OWNER'S CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHOULD BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ONSITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCE ON THIS COVERSHEET.

JENNIFER COVERDALE
STATE OF DELAWARE
122 MARTIN LUTHER KING, JR. BLVD
DOVER, DE 19901

DATE

ENGINEER'S STATEMENT

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.

RING W. LARDNER, P.E.
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVENUE
MILFORD, DELAWARE, 19963

DATE

**DAVIS
BOWEN &
FRIEDEL, INC.**
ARCHITECTS • ENGINEERS • SURVEYORS
MILFORD, DELAWARE
302.421.7474
WILMINGTON, DELAWARE
410.543.9991

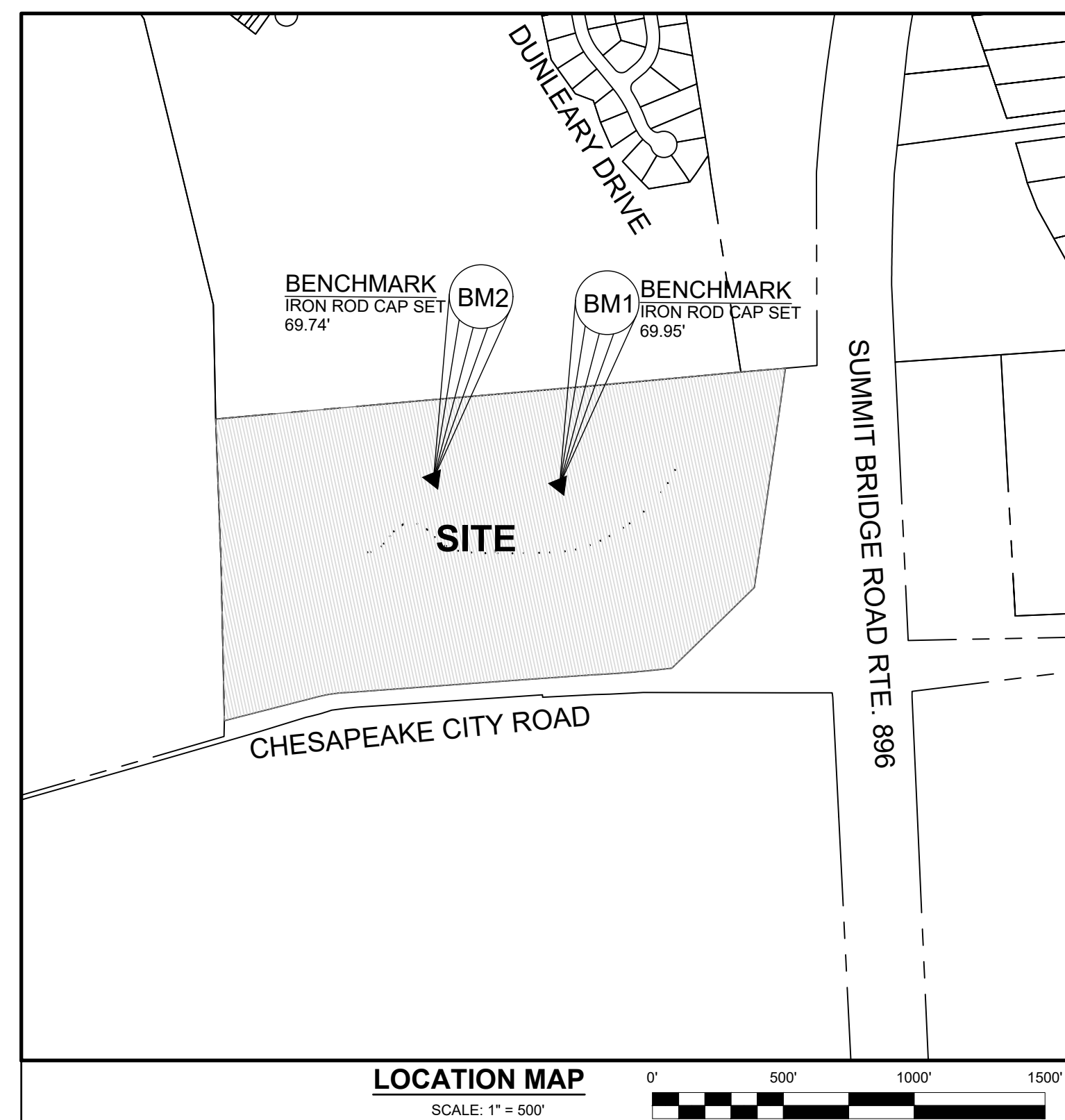
SEDIMENT AND STORMWATER CONSTRUCTION NOTES:

1. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHALL BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR DELEGATED AGENCY.
4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
6. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
7. APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.
8. POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE DEPARTMENT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
9. APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
10. THE NOTICE OF INTENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS #106. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
11. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
12. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROL SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
13. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
14. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL. C. CH 69 AND THE CURRENT DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).
15. DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.
16. THE DEPARTMENT MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.
17. WHEN DIRECTED BY THE DEPARTMENT, THE OWNER SHALL ACQUIRE THE SERVICES OF A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) TO PERFORM WEEKLY CONSTRUCTION REVIEWS. SEDIMENT AND STORMWATER MANAGEMENT PLANS APPROVED BY THE DEPARTMENT SHALL HAVE A THIRD PARTY CCR.
18. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND REPAIR ALL EROSION, SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES DURING UTILITY INSTALLATION AND SITE CONSTRUCTION.
19. IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER TO MAINTAIN AND REPAIR ALL EROSION, SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES AFTER COMPLETION AND APPROVAL OF ALL STORMWATER MANAGEMENT PRACTICES.
20. UNLESS OTHERWISE SPECIFIED, TEMPORARY VEGETATIVE STABILIZATION SHALL USE SEED MIX NO. 5 AND PERMANENT VEGETATIVE STABILIZATION SHALL USE SEED MIX NO. 7.
21. TEMPORARY VEGETATIVE COVER, MULCHING AND/OR SPRINKLING WITH WATER SHALL BE THE METHODS USED AS NECESSARY TO CONTROL DUST.
22. EROSION CONTROL MATTING IS REQUIRED ON SLOPES OF 3:1 OR GREATER AND IN AREAS OF CONCENTRATED FLOW. STABILIZATION MATTING, WHERE REQUIRED, SHALL BE NORTH AMERICAN GREEN SC150BN OR DNREC TYPE SSM-III.
23. ALL RIPRAP SHALL BE UNDERLAIN WITH MIRAFIX 600X GEOTEXTILE OR DNREC TYPE GS-1.
24. EXCESS TOPSOIL TO BE RELOCATED OFF-SITE AND STABILIZED IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK.
25. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
26. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

STABILIZATION CONDITIONS:

1. FOLLOWING INITIAL SOIL DISTRIBUTION OR REDISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION WITH SEED AND MULCH SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS TO THE SURFACE OF ALL DISTURBED AREAS NOT ACTIVELY UNDER CONSTRUCTION.
2. SPECIFIC STABILIZATION RECOMMENDATIONS MAY BE FOUND IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, 3.4.3 STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

DATA COLUMN	
1 INSTRUMENT NUMBER	11-050.00-005
2 DEED REFERENCE	BOOK 2016, PAGE 040
3 SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701
4 PLUS NUMBER	N/A
5 ENGINEER	OWNER STATE DEVELOPER DAVIS, BOWEN & FRIEDEL, INC. OF DELAWARE DELAWARE DEPARTMENT OF VETERAN AFFAIRS 1 PARK AVENUE 122 MARTIN LUTHER KING BLVD. MILFORD, DE 19963 DOVER, DELAWARE 19901 RING W. LARDNER, P.E. JENNIFER COVERDALE PHONE: (302) 424-1441 PHONE: (302) 739-5644 EMAIL: rwl@dbfinc.com EMAIL: jennifer.coverdale@delaware.gov
6 DATUM	HORIZONTAL VERTICAL NAD 83 (DE STATE PLANE) NAVD 88
7 LAND USE	EXISTING PROPOSED CEMETERY CEMETERY
8 ZONING	EXISTING PROPOSED SR-SUBURBAN SR-SUBURBAN RESERVE RESERVE
9 TOTAL UNITS	EXISTING PROPOSED EXISTING/PROPOSED BUILDINGS BUILDINGS 0 9,600 NICHES
10 BUILDING CONSTRUCTION	IBC NFPA N/A N/A
11 UTILITY PROVIDERS	WATER SEWER ARTESIAN NEWCASTLE COUNTY
12 FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10003C0236L, DATED JANUARY 22, 2020.
13 TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).
14 GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.
15 WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.
16 WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.
17 SITE COORDINATES	LATITUDE LONGITUDE N 39.325963 W 75.443638 N 39.330114 W 75.444023 N 39.325980 W 75.444407
18 INFILTRATION FACILITY	
19 DISCHARGE LOCATION (EXISTING INLET)	
20 LOD FOR DISCHARGE LOCATION:	2.44 AC
21 REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN - FIRE MARSHAL PLAN - ARCHITECTURAL ACCESSIBILITY BOARD
22 SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026



LEGEND

SF	SILT FENCE DETAIL: SHEET C-407	IP1	INLET PROTECTION TYPE-1 DETAIL: SHEET C-407
LOD	LIMIT OF DISTURBANCE	IP2	INLET PROTECTION TYPE-2 DETAIL: SHEET C-407
LOD/SF	LIMIT OF DISTURBANCE / SILT FENCE	CW	CONCRETE WASHOUT DETAIL: SHEET C-408
CFL	COMPOST FILTER LOG (8" DIA., 3-MIL HDPE) FILTREXX SILT SOXX OR APPROVED EQUAL DETAIL: SHEET C-407	SCE	STABILIZED CONSTRUCTION ENTRANCE DETAIL: SHEET C-408
SAP	SENSITIVE AREA PROTECTION DETAIL: SHEET C-407	SM-C	STABILIZATION MATTING - CHANNEL TYPE: SSM-1, NORTH AMERICAN GREEN SC150BN DETAIL: SHEET C-408
	CATCH BASIN, STORM DRAIN, FLOW ARROW, MANHOLE & LABELS	PP-1	PUMPING PIT TYPE 1 - (BACKUP DEWATERING) DETAIL: SHEET C-406
	SWALE	GB	GEOTEXTILE DEWATERING BAG DETAIL: SHEET C-406
	TEMPORARY STOCKPILE AREA DETAIL: SHEET C-407		

BENCHMARK INFORMATION

BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563,654.85	69.74

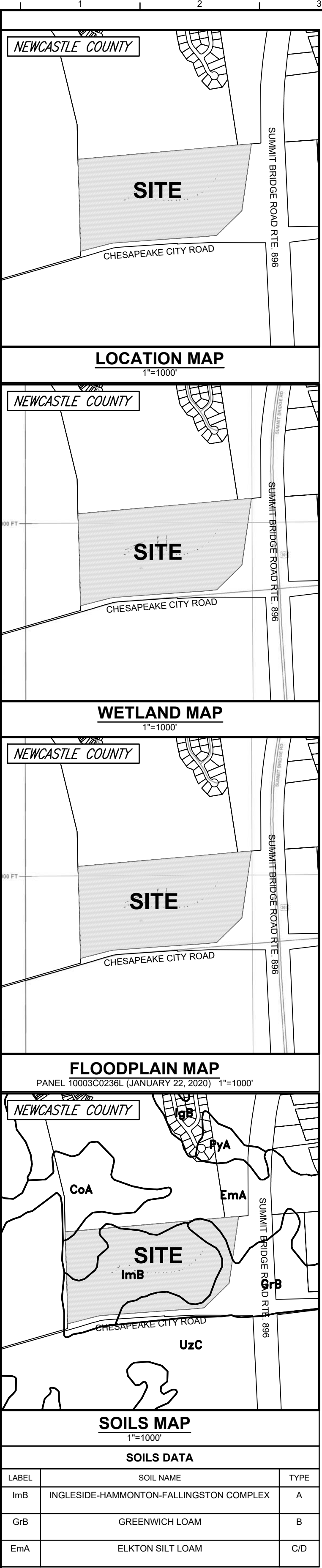
LIMIT OF DISTURBANCE
TOTAL: 2.44+ ACRES

DNREC APPROVAL BOX

NOI# 7806

SSM TITLE SHEET

C-401

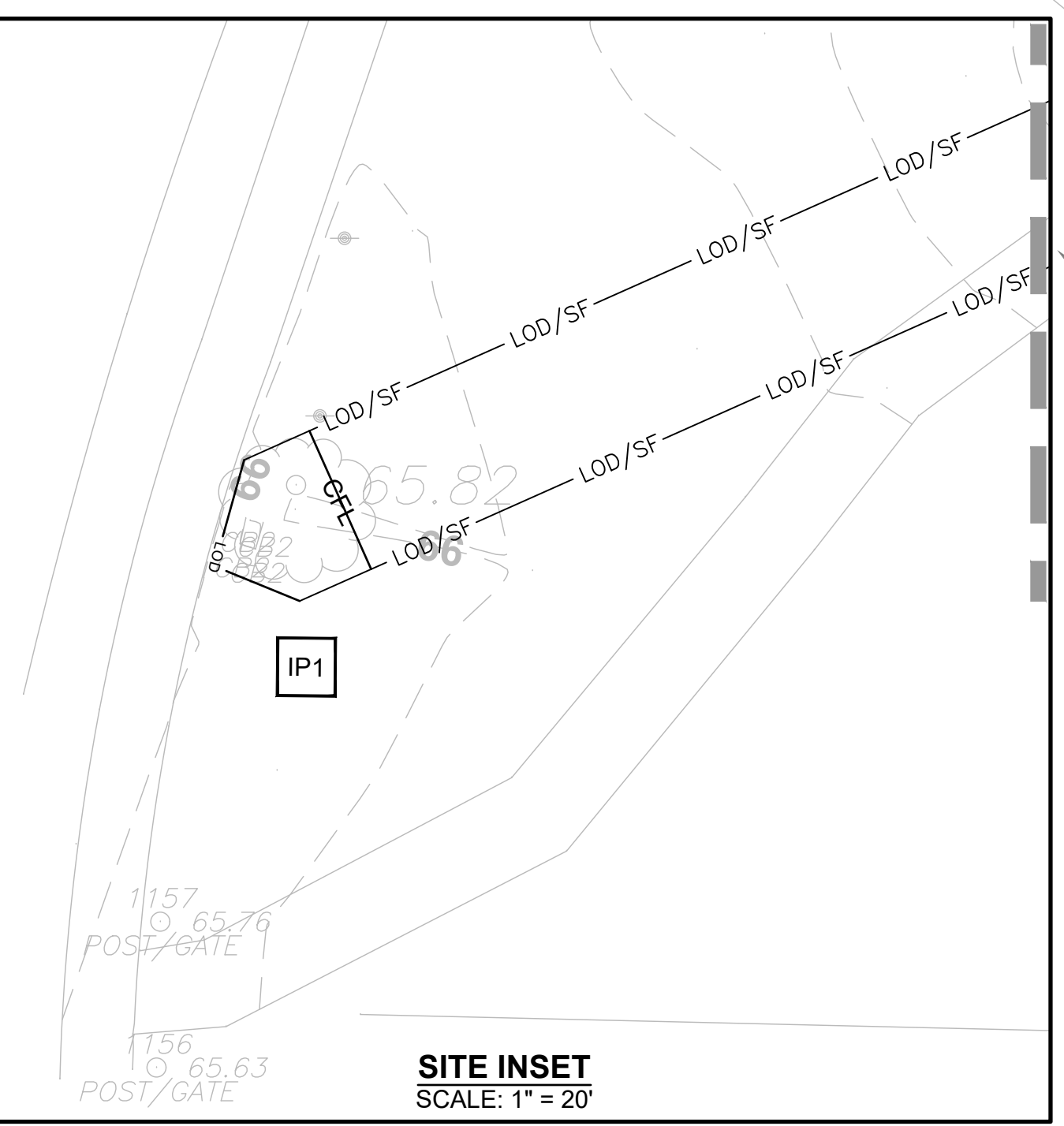
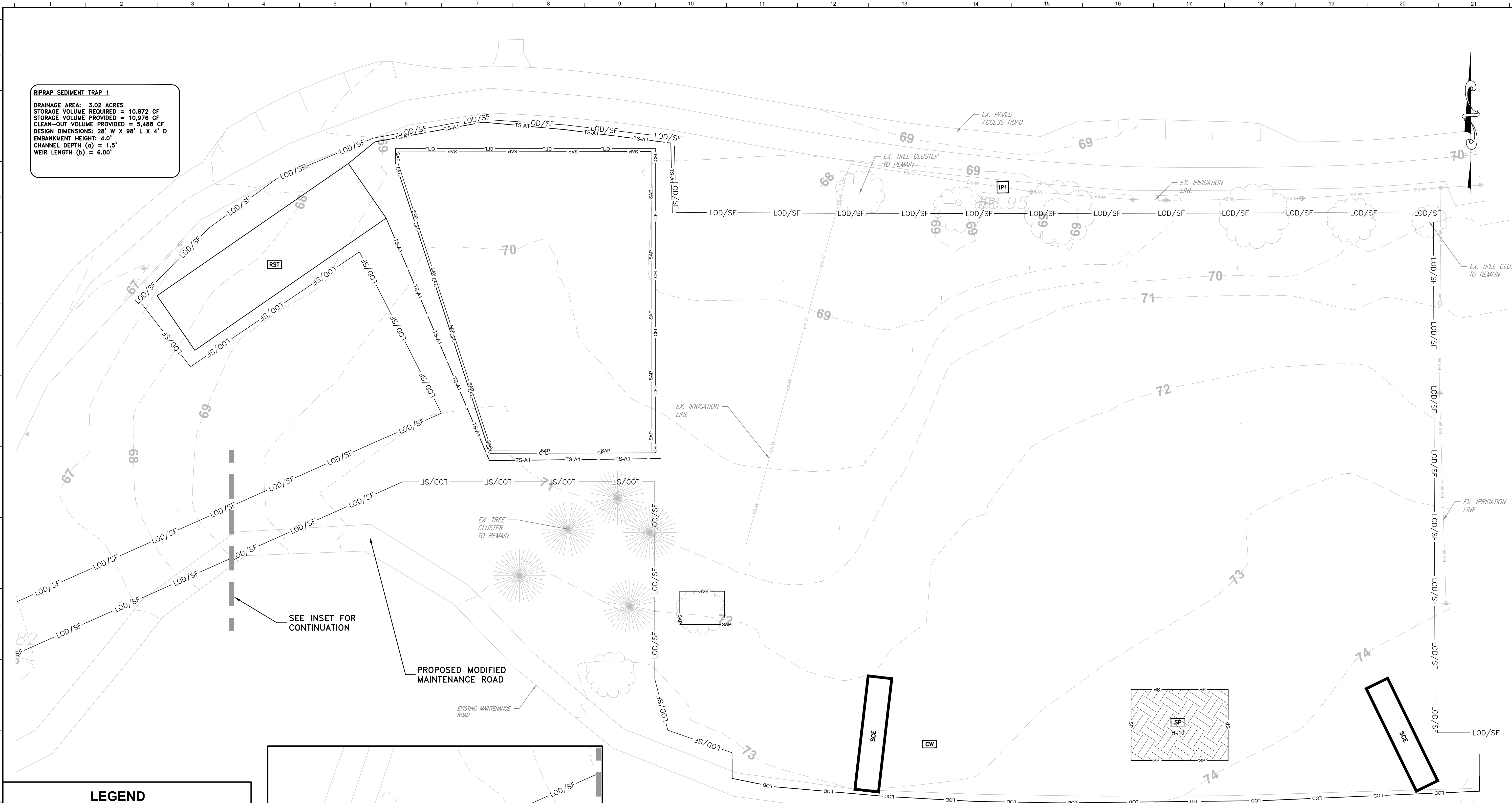


THE PURPOSE OF THIS PLAN IS TO:
ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY.
ADDITIONAL PARKING AND UPGRADE THE ACCESS FOR
THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING
LONGEVITY OF USE.



811
Know what's below.
Call before you dig.
MISS UTILITY PHONE 1-800-282-8555
PROJECT YOURSELF, GIVE THREE
WORKING DAYS NOTICE

RIPRAP SEDIMENT TRAP 1
 DRAINAGE AREA: 3.02 ACRES
 STORAGE VOLUME REQUIRED = 10,872 CF
 STORAGE VOLUME PROVIDED = 10,978 CF
 CLEAN-OUT VOLUME PROVIDED = 3,488 CF
 DESIGN DIMENSIONS: 28' W X 98' L X 4' D
 EMBANKMENT HEIGHT: 4.0'
 CHANNEL DEPTH (a) = 1.5'
 WEIR LENGTH (b) = 6.00'



LEGEND	
	EXISTING TOPO
	BOUNDARY LINE
	EXISTING TREELINE
	EDGE OF PAVEMENT
	PROPOSED TOPO
	RIPRAP OUTLET PROTECTION - TYPE 2
	STABILIZED CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	LIMIT OF DISTURBANCE (2.44 AC +/-)
	SILT FENCE
	SUPER SILT FENCE
	LIMIT OF DISTURBANCE/SILT FENCE
	LIMIT OF DISTURBANCE/SUPER SILT FENCE
	WETLANDS LINE
	SOIL STOCKPILE
	STONE OUTLET SEDIMENT TRAP
	TEMPORARY SWALE TYPE A-1

SEQUENCE OF CONSTRUCTION

- NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE DNREC CONSTRUCTION SITE INSPECTOR, THE LANDOWNER/DEVELOPER, CONTRACTOR, THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER, AND THE GEOTECH/SOIL SCIENTIST OF RECORD ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING. THE DESIGNER IS RECOMMENDED TO ATTEND.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA AT 1-800-282-8555 FOR UTILITY LOCATIONS WITHIN AND SURROUNDING CONSTRUCTION AREAS NOT LESS THAN 3 DAYS BEFORE PERFORMING ANY EXCAVATION.
- ESTABLISH STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY STOCKPILE AREAS FOR BORROW MATERIAL AND PERIMETER CONTROLS.
- PROTECT THE INFILTRATION BASIN AREA BY SURROUNDING WITH COMPOST FILTER LOGS AND SENSITIVE AREA PROTECTION. KEEP HEAVY CONSTRUCTION TRAFFIC OUTSIDE OF THESE AREAS.
- INSTALL RIP-RAP SEDIMENT TRAP
 - EXCAVATE RIP-RAP SEDIMENT TRAP PER DETAIL AND WITH ADDITIONAL INFORMATION ON PLANS.
 - INSTALL TEMPORARY SWALES INTO SEDIMENT TRAP.
 - STABILIZATION OF THE SEDIMENT TRAP SIDE SLOPES ARE REQUIRED PRIOR TO FURTHER CONSTRUCTION.
- COMPLETE GEO-TECHNICAL INVESTIGATION AND INFILTRATION TESTING WITHIN PROPOSED INFILTRATION FACILITY. A MINIMUM OF TWO BORINGS AND INFILTRATION TESTS ARE REQUIRED. NOTIFY DESIGN ENGINEER IF TEST RATES USING BOREHOLE METHOD IS LESS THAN 8 INCHES PER HOUR AND IF USING DOUBLE RING TESTS LESS THAN 4 INCHES PER HOUR.
- ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE DNREC CONSTRUCTION SITE INSPECTOR AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION. THE CONTRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- DEVIATION FROM THE APPROVED SEQUENCE OF CONSTRUCTION REQUIRES WRITTEN APPROVAL FROM DNREC.
- BEGIN DEMOLITION, CLEARING, AND GRUBBING. MINIMIZE CLEARING AND GRADING OPERATIONS TO AREAS NECESSARY FOR IMMEDIATE CONSTRUCTION ACTIVITY.
- ROUGH GRADE ALL AREAS AS SHOWN ON GRADING PLANS TO PROMOTE DRAINAGE TO SEDIMENT TRAP.
- FINE GRADE PAVED AND COLUMBARIUM AREAS.
- INSTALL CONCRETE AND COLUMBARIUM WALLS.
- PAVE MAINTENANCE DRIVE AND PARKING BAYS.
- STABILIZE ANY REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES.
- NOTIFY THE DNREC SITE INSPECTOR AND CCR AT LEAST (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION. STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT THEIR CONSTRUCTION.
- ONCE SURROUNDING AREAS HAVE BEEN STABILIZED WITH STONE AND WITH PERMISSION OF THE DNREC INSPECTOR, BEGIN EXCAVATION FOR THE INFILTRATION BASIN. (DO NOT ALLOW ANY EQUIPMENT WITHIN THE PERIMETER OF THE INFILTRATION BASIN TO PREVENT THE COMPACTION OF THE EXISTING SOILS). NOTIFY THE DNREC SITE INSPECTOR, CCR, AND GEOTECH OF THE INFILTRATION BASIN CONSTRUCTION SCHEDULE. PROTECT EXCAVATION FROM INFLOW OF SEDIMENT LADEN WATER BY MAINTAINING PERIMETER CONTROLS AROUND TOP OF EXCAVATION. IF DEWATERING IS REQUIRED, UTILIZE A PUMPING PIT AND GEOTEXTILE BAG WITH APPROVAL FROM THE DNREC INSPECTOR.
- REMOVE SEDIMENT TRAP AND TEMPORARY SWALES.
- EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
- COMPLETE ROUTINE MAINTENANCE OF INSPECTED BMPS.
- SUBMIT FINAL POST CONSTRUCTION AND MAINTENANCE PLANS TO DNREC FOR REVIEW AND APPROVAL WITHIN 60 DAYS OF INFILTRATION FACILITY INSTALLATION.
- CONTRACTOR OR OWNER SHALL PERFORM ROUTINE MAINTENANCE OF THE EXISTING ADJACENT BIO-RETENTION AREAS.
- SEE SHEET C-409 FOR OPERATION AND MAINTENANCE NOTES OF THE INFILTRATION BASIN.
- CONTACT DNREC FOR FINAL CONSTRUCTION INSPECTION.
- THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

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**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	02/13/2026	ADDRESS DNREC COMMENTS

Date: JANUARY 2026
 Scale: 1"=20'
 Dwn By: CLB/RJL
 Proj No.: 0586B065.B01

**SSM
 PRE-CONSTRUCTION
 SITE
 STORMWATER
 MANAGEMENT
 PLAN**

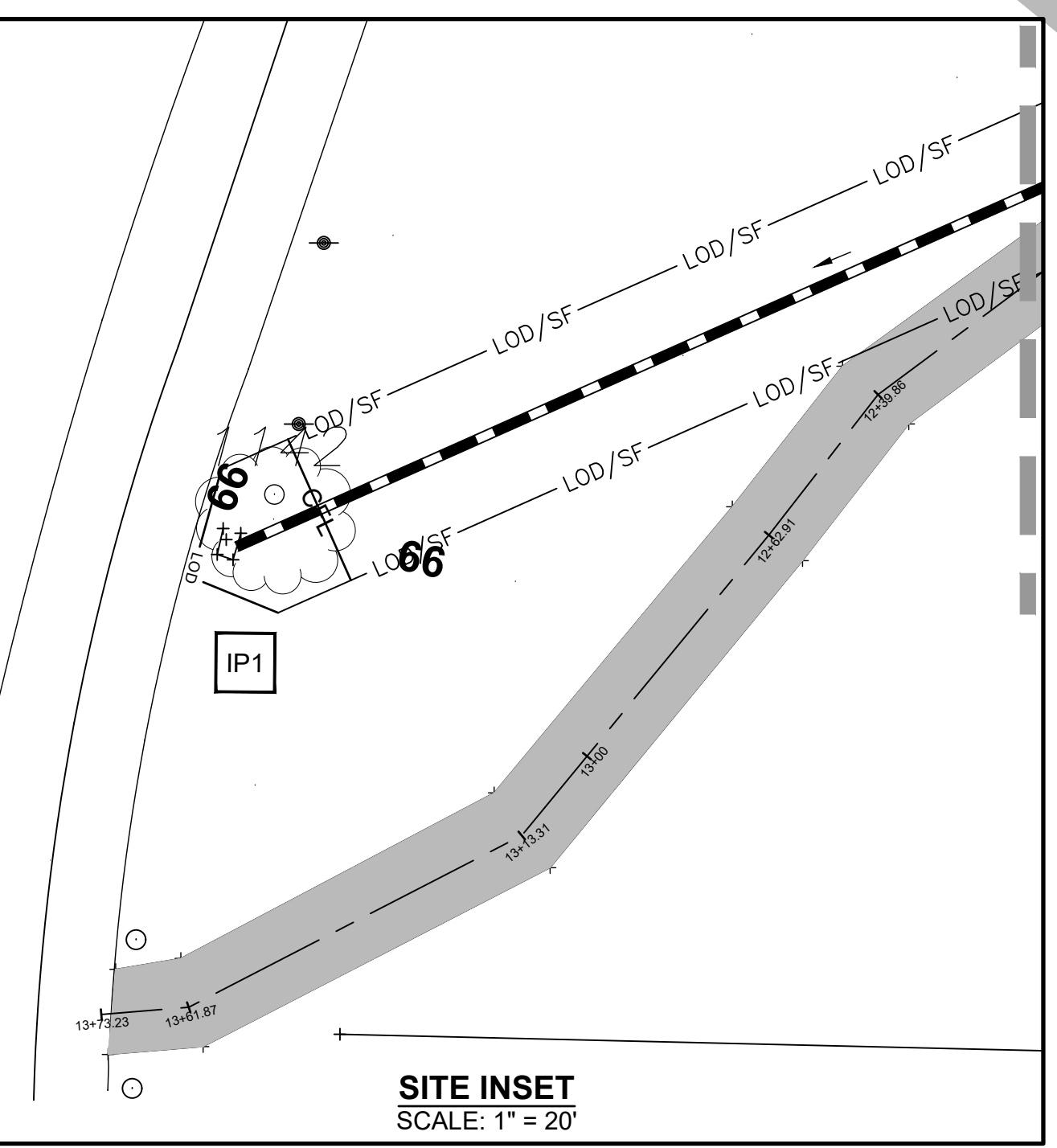
Dwg No.: **C-402**

RIPRAP SEDIMENT TRAP 1
 DRAINAGE AREA: 3.02 ACRES
 STORAGE VOLUME REQUIRED = 10,872 CF
 STORAGE VOLUME PROVIDED = 10,976 CF
 CLEAN-OUT VOLUME PROVIDED = 5,488 CF
 DESIGN DIMENSIONS: 28' W X 98' L X 4' D
 EMBANKMENT HEIGHT: 4.0'
 CHANNEL DEPTH (a) = 1.5'
 WEIR LENGTH (b) = 6.00'

INFILTRATION BASIN
 SEE SHEETS C-409

10' x 314' FILTER STRIP

10' x 186' FILTER STRIP



LEGEND	
	EXISTING TOPO
	BOUNDARY LINE
	EXISTING TREELINE
	EDGE OF PAVEMENT
	PROPOSED TOPO
	RIPRAP OUTLET PROTECTION - TYPE 2
	STABILIZED CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	LIMIT OF DISTURBANCE (2.44 AC +/-)
	SILT FENCE
	SUPER SILTY FENCE
	LIMIT OF DISTURBANCE/SILT FENCE
	LIMIT OF DISTURBANCE/SUPER SILTY FENCE
	WETLANDS LINE
	SOIL STOCKPILE
	STONE OUTLET SEDIMENT TRAP
	TEMPORARY SWALE TYPE A-1

PROPOSED (10) STD 10'x22' & (1) HC.
 10'x24' PAVED PARKING SPACES,
 SEE DETAIL ON SHEET C-201



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**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

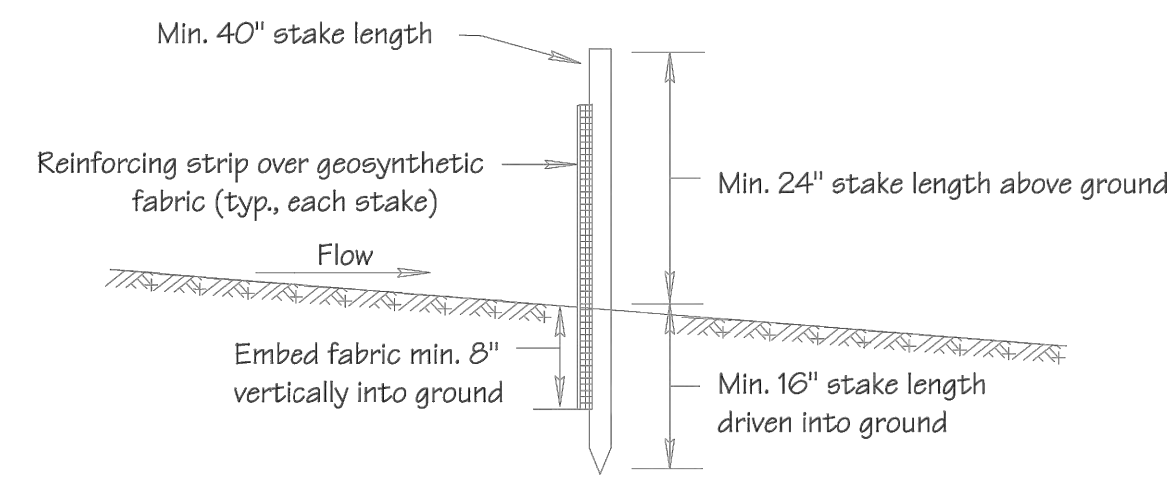
NO.	DATE	COMMENTS
1	02/13/2025	ADDRESS DNR/EC COMMENTS

Date: 0586B065.B01
 Scale: 1"=20'
 Dwn By: CLB/RJL
 Proj No.: 0586B065.B01

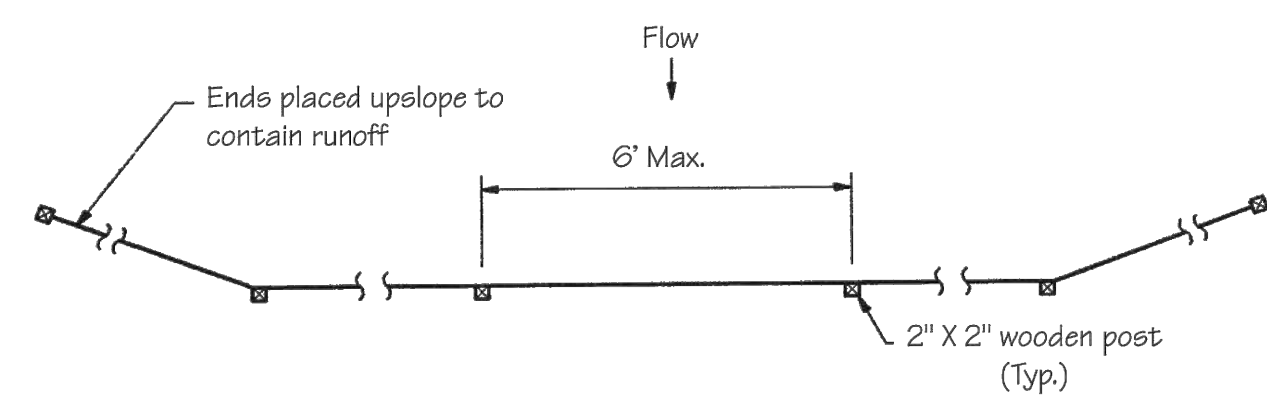
SSM CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN

Dwg No.: **C-403**

Standard Detail & Specifications
Silt Fence



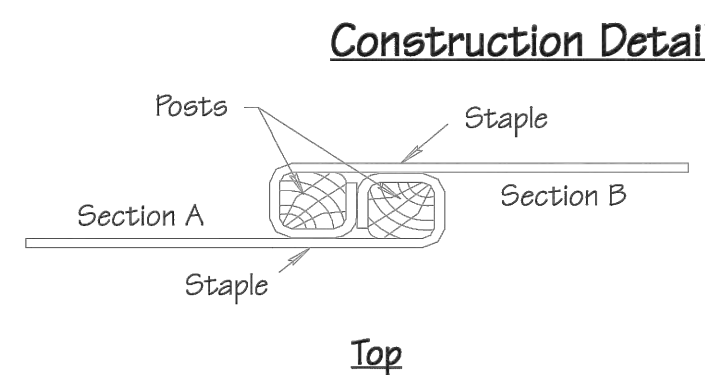
Section



Plan

Source: Adapted from MD Stds. & Specs. for ESC	Symbol: SF	Detail No. DE-ESC-3.1.2.1 Sheet 1 of 2 Effective January 2026
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Standard Detail & Specifications
Silt Fence



Method for joining continuous sections

Construction Notes:

- Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

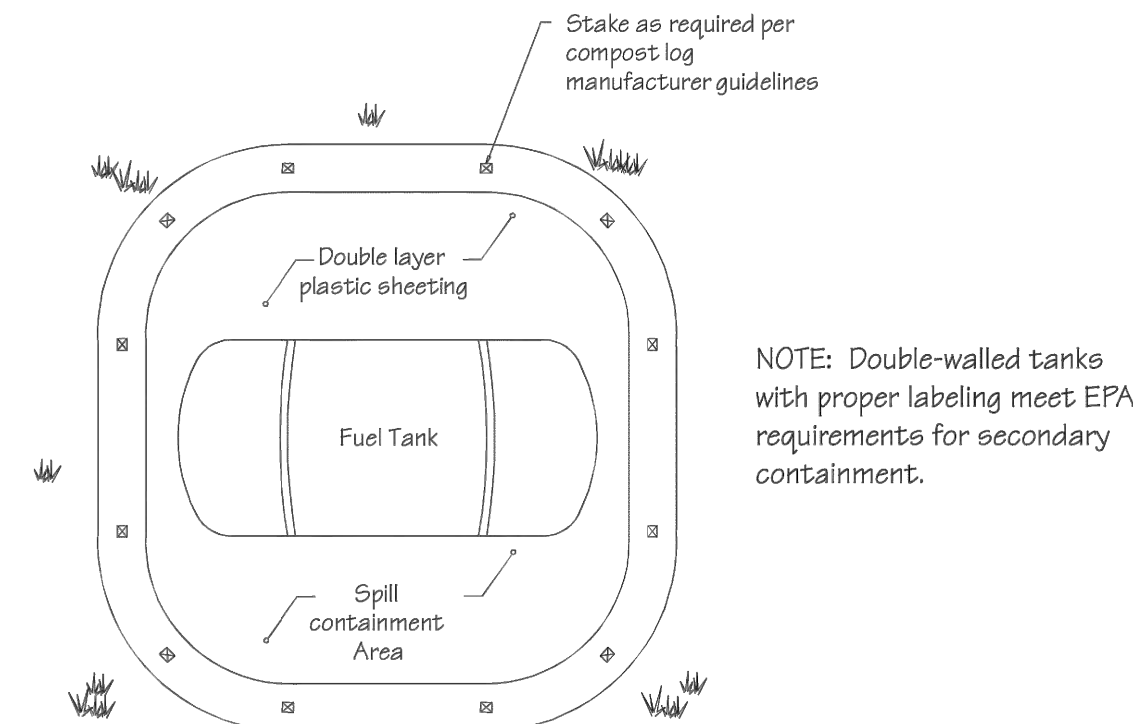
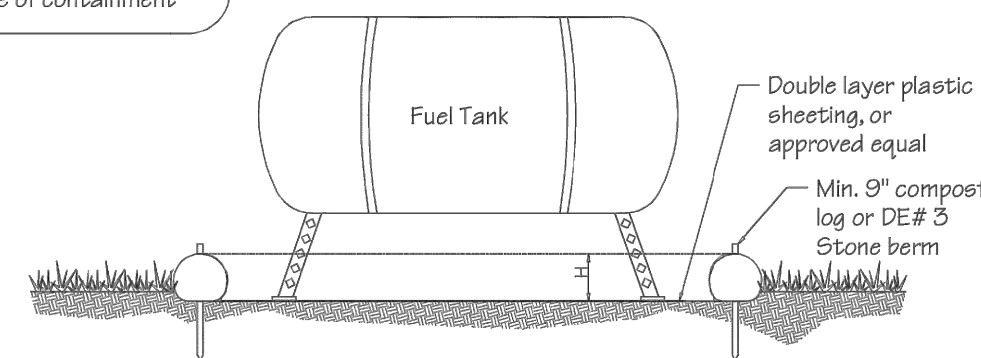
Materials:

- Stakes: Steel (either T or U) or 2" x 2" hardwood
- Geosynthetic Fabric: Type GD-1
- Reinforcing strip: Wooden lath or plastic strip

Source: Adapted from MD Stds. & Specs. for ESC	Symbol: SF	Detail No. DE-ESC-3.1.2.1 Sheet 2 of 2 Effective January 2026
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Standard Detail & Specifications
Fueling & Spill Control

DATA TO BE PROVIDED
Volume of Potential Pollution
Height of containment
Area of containment
Volume of containment



Pollution Prevention – Fueling & Spill Control

- Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
- Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
- Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
- Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
- Place a "Fueling Area" sign next to each fueling area.
- Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
- Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.
- Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.
- If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
- Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

CLEAN UP SPILLS

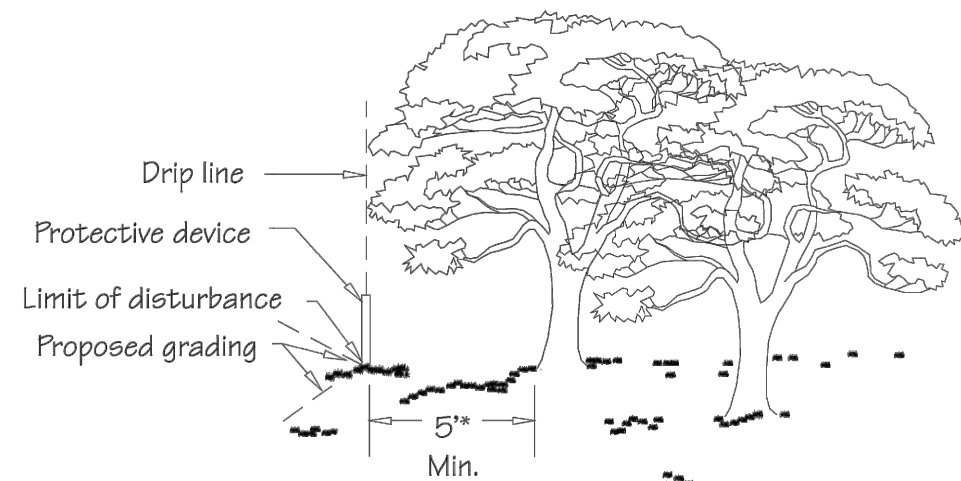
- If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.
- Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
- Do not bury spills or wash them down with water.

LEAKS AND DRIPS

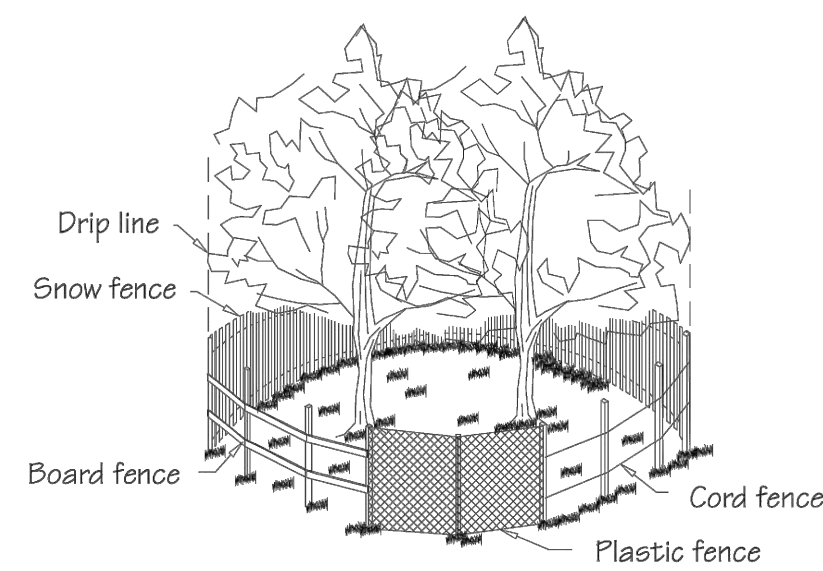
- Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
- Do not allow oil, grease, fuel or chemicals to drip onto the ground.
- Have spill kits and clean up material on-site.
- Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
- Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
- Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.

Source: Delaware ESC Handbook	Symbol:	Detail No. DE-ESC-3.6.4 Sheet 1 of 2 Effective January 2026
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Standard Detail & Specifications
Sensitive Area Protection



Location of Sensitive Area Protection



Methods of Sensitive Area Protection

Source: Adapted from VA ESC Handbook	Symbol: SAP	Detail No. DE-ESC-3.7.2 Sheet 1 of 3 Effective January 2026
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Standard Detail & Specifications
Sensitive Area Protection

Construction Notes:

Fencing shall be installed at the extents of all sensitive areas. For trees, the fencing shall be installed outside the dripline (mature canopy) and at no time within 5 feet of the trunk. Personnel must be instructed to honor protective devices. The devices described are suggested only, and are not intended to exclude the use of other devices which will protect the trees to be retained. If silt fence is to be used for demarcation purposes, appropriate signage shall be provided a minimum of every 20 feet denoting the area as a sensitive area protection zone.

Materials:

- Snow Fence - Standard 40-inch high snow fence shall be placed at the limits of clearing or construction on standard steel posts set 6 feet apart.
- Board Fence - Board fencing consisting of 4-inch square posts set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with a minimum of two horizontal boards between posts. For tree protection, if it is not practical to erect a fence at the drip line, construct a triangular fence nearer the trunk. The limits of clearing will still be located at the drip line, since the root zone within the drip line will still require protection.
- Plastic Fencing - 40-inch high "international orange" plastic (polyethylene) web fencing secured to conventional metal "T" or "U" posts driven to a minimum depth of 18 inches on 6-foot minimum centers shall be installed at the limits of clearing. The fence should have the following minimum physical qualities:
 - Tensile yield: Average 2,000 lbs. per 4-foot width (ASTM D638)
 - Ultimate tensile yield: Average 2,900 lbs. per 4-foot width (ASTM D638)
 - Elongation at break (%): Greater than 1000% (ASTM D638)
 - Chemical resistance: Inert to most chemicals and acids

Source: Adapted from VA ESC Handbook	Symbol: SAP	Detail No. DE-ESC-3.7.2 Sheet 2 of 3 Effective January 2026
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Standard Detail & Specifications
Sensitive Area Protection

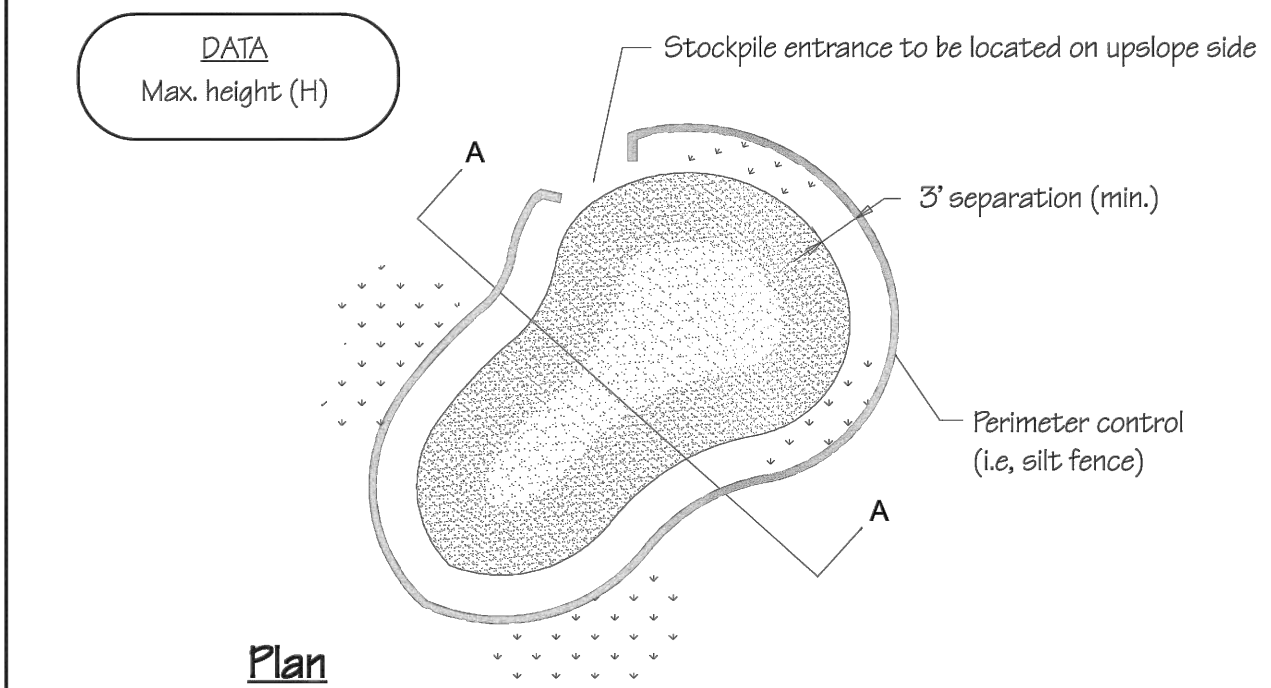
- Cord Fence - Posts with a minimum size of 2 inches square or 2 inches in diameter set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with two rows of cord 1/4-inch or thicker at least 2 feet apart running between posts with strips of colored surveyor's flagging tied securely to the string at intervals no greater than 3 feet.
- Earth Berms - Temporary earth berms shall be constructed according to specifications for a Temporary Earth Dike with the base of the berm on the sensitive area side located along the limits of clearing. Earth berms may not be used for this purpose if their presence will conflict with drainage patterns.
- Trunk Armoring (Tree Protection Only) - As a last resort, a tree trunk can be armored with burlap wrapping and 2-inch studs wired vertically no more than 2 inches apart to a height of 5 feet encircling the trunk. If this alternative is used, the root zone within the drip line will still require protection. Nothing should ever be nailed to a tree.

Maintenance:

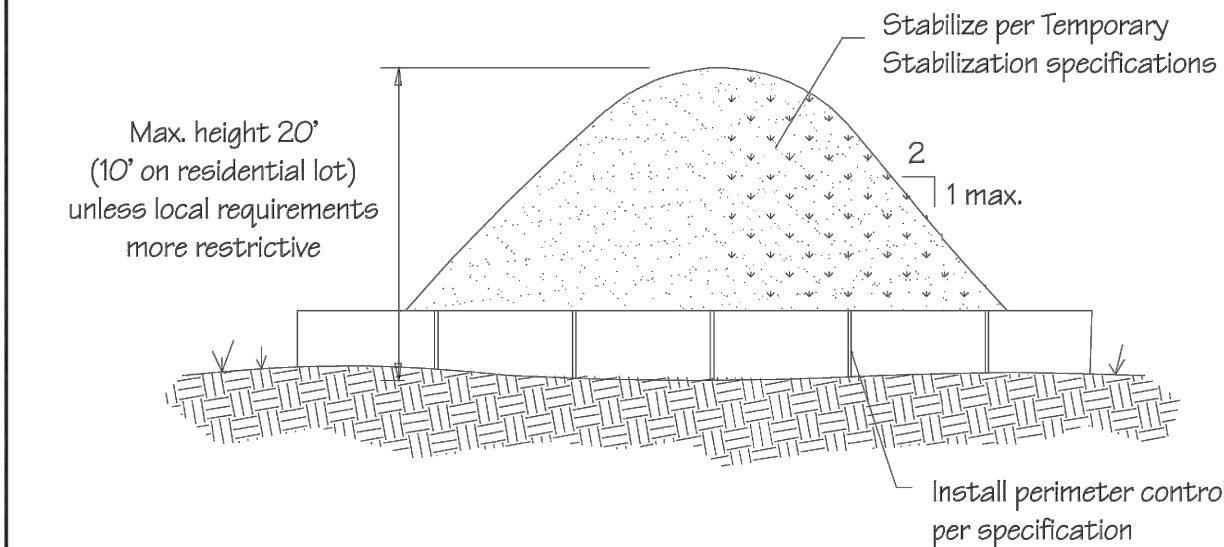
Fencing and armoring devices shall be in place before any excavation or grading is begun, shall be kept in good repair for the duration of construction activities, and shall be the last items removed during the final cleanup after the completion of the project.

Source: Adapted from VA ESC Handbook	Symbol: SAP	Detail No. DE-ESC-3.7.2 Sheet 3 of 3 Effective January 2026
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Standard Detail & Specifications
Soil Stockpile



Plan



Section A-A

Source: Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	Symbol: SP	Detail No. DE-ESC-3.7.3 Sheet 1 of 2 Effective January 2026
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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

NO.	DATE	COMMENTS
1	10/13/2026	ADDRESS DNR/EC COMMENTS
Date: JANUARY 2026		
Scale: AS SHOWN		
Dwn By: CLB		
Proj No.: 0586B065.B01		

SSM
CONSTRUCTION
DETAILS

Dwg No.:
C-404

Standard Detail & Specifications Soil Stockpile

Construction Notes:

- Locate stockpiles so that they are 50 feet from any storm drain inlet, open channel, wetland or waterbody. Redirect any concentrated flow around the stockpile using an approved erosion and sediment control measure.
- Secure the perimeter of the stockpile with an approved erosion and sediment control perimeter device.
- If stockpile is to remain inactive for more than 14 calendar days, the stockpile must be vegetated. Follow the temporary vegetation specifications. The vegetation chosen shall last the duration of the stockpile; the stockpile shall be restabilized if the temporary vegetation dies or erosion results.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications Dust Control

Temporary Methods:

- Mulches - See **DE-ESC-3.4.5**, Standard Detail and Specifications for Mulching.
- Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
- Adhesives - Use on mineral soils only (not effective on muck soils). Keep traffic off these areas. The following table may be used for general guidance.

Type of Emulsion	Water Dilution	Type of Nozzle	Apply Gal/Ac.
Latex emulsion	12.5:1	Fine spray	235
Resin-in-water emulsion	4:1	Fine spray	300
Acrylic emulsion (non-traffic)	7:1	Coarse spray	450
Acrylic emulsion (traffic)	3.5:1	Coarse spray	350

- Tillage - For emergency temporary treatment, scarify the soil surface to prevent or reduce the amount of blowing dust until a more appropriate solution can be implemented. Begin the tillage operation on the windward side of the site using a chisel-type plow for best results.
- Sprinkling - Sprinkle site with water until the surface is moist. Repeat as needed.
- Calcium Chloride - Apply as flakes or granular material with a spreader at a rate that will keep the soil surface moist. Re-apply as necessary.
- Barriers - Place barriers such as solid board fences, snow fences, hay bales, etc. at right angles to the prevailing air currents at intervals of approx. 10X their height.

Permanent Methods:

- Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
- Stone - Apply layer of crushed stone or coarse gravel to protect soil surface.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook		DE-ESC-3.4.8 Sheet 1 of 1 Effective January 2026

Standard Detail & Specifications Topsoiling

Construction Notes:

- Site Preparation** (Where Topsoil is to be added)

Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.

 - Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained.
 - Liming - Where the topsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
 - Tilling - After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.
- Topsoil Material and Application**

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications Topsoiling

Construction Notes (cont.)

- Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, stones, slag, coarse fragment, gravel, sticks, roots, trash or other extraneous materials larger than 1-1/2 inches in diameter. Topsoil must be free of plants or plant parts of bermudagrass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistles, or others as specified. All topsoil shall be tested by a reputable laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content of not less than 1.5 percent by weight is required. If pH value is less than 6.0 lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.

Note: No sod or seed shall be placed on soil which has been treated with soil sterilant or chemicals used for weed control until sufficient time has elapsed to permit dissipation of toxic materials.
- Grading - The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Note: Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil. Compost material used to improve the percentage of organic matter shall be provided by a certified supplier.

Compost amendments that are intended to meet specific post-construction stormwater management goals shall further meet the requirements of **Appendix 3.06.2 Post Construction Stormwater Management BMP Standards and Specifications, Section 14.0 Soil Amendments.**

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications Vegetative Stabilization

TEMPORARY SEEDING BY RATES, DEPTHS AND DATES											
Mix #	Species ²	Seeding Rate	Optimum Seeding Dates ¹						Planting Depth ³		
			O = Optimum Planting Period; A = Acceptable Planting Period								
			Coastal Plain		Piedmont		All				
	Certified Seed	lb/Ac ⁴	2/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-7/31	8/1-10/31	2/1		
1	Barley	125	4	O	A	O	O	A	1-2 inches		
2	Oats	125	4	O	A	A	O	A	1-2 inches		
3	Rye	125	4	O	A	O	O	A	2-3" sandy soils		
4	Perennial Ryegrass	125	4	O	A	O	O	A	0.5 inches		
5	Annual Ryegrass	125	4	O	A	O	O	A	1-2" sandy soils		
6	Winter Wheat	125	4	O	A	O	O	A	1-2 inches		
7	Foxtail Millet	30 PLS	0.7						0.5 inches		
8	Pearl Millet	20 PLS	0.5						0.5 inches		

1. Winter seeding requires 3 tons per acre of straw mulch for proper establishment.
 2. May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
 3. Applicable on slopes 3:1 or less.
 4. Use varieties currently recommended for Delaware. Contact a County Extension Office for information.
 5. Warm season grasses such as Millet may be used between 5/1 and 9/1 if desired. Seed at 3-5 lbs. per acre. Good on low fertility and acid areas. Seed after frost through summer at a depth of 0.5".

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 1 of 4 Effective January 2026

Standard Detail & Specifications Vegetative Stabilization

PERMANENT SEEDING AND SEEDING DATES											
Mix No.	Certified Seed ²	Seeding Rate ¹	Optimum Seeding Dates ²						Remarks		
			O = Optimum Planting Period; A = Acceptable Planting Period								
			Coastal Plain		Piedmont		All ³				
	Well Drained Soils	lb/Ac	2/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-7/31	10/31-2/1			
1	Tall Fescue Canada Wild Rye	140 10	3.2 0.23	A	O	A	O	A	Good erosion control mix Tolerant of low fertility soils Good for droughty sites		
2	Deerfongue Sheep Fescue White Clover	30 30 10	0.69 0.69 0.35	A	O	A	O	A	Good erosion control mix Tolerant of low fertility soils Legume that fixes atmospheric N into soil		
3	Tall Fescue (Turf-type) or Strong Creeping Red Fescue or Perennial Ryegrass	50 50 50	1.15 1.15 1.15	O	A ⁴	O	O	A ⁴	Good erosion control mix Tall Fescue for droughty conditions. Creeping Rye Fescue for heavy shade. Flatpea to suppress woody vegetation.		
4	plus Flatpea ⁵ Strong Creeping Red Fescue Kentucky Bluegrass Blend Perennial Ryegrass or Rusttop	15 100 70 15 5	0.34 2.3 1.61 0.35 0.11	O	A ⁴	O	O	A ⁴	Suitable waterway mix. Carada Bluegrass more drought tolerant. Use Rusttop for increased drought tolerance.		
5	plus White Clover ⁶ Switchgrass ⁷ or Coastal Paspalum Big Bluestem Little Bluestem Indian Grass	3 10 20 5 5	0.07 0.23 0.46 0.11 0.11						Native warm-season mixture. Tolerant of low fertility soils. Drought tolerant. Poor shade tolerance. N fertilizer discouraged - needs managed filter strip for nutrient uptake.		
6	Tall Fescue (turf-type) (Blend of 3 cultivars)	150	3.5	O	A ⁴	O	O	A ⁴	Three cultivars of Kentucky Bluegrass. Traffic tolerant.		
7	Tall Fescue Kv. Bluegrass (Blend) Perennial Ryegrass	150 20 20	3.5 0.46 0.46	O	A ⁴	O	O	A ⁴	All species are native. Indian Grass and Bluestem have fluffy seeds. Plant with a specialized native seed drill. Creeping Red Fescue will provide erosion protection while the warm season grasses get established.		
8	Big Bluestem ⁷ Indian Grass ⁷ Little Bluestem ⁷ Creeping Red Fescue plus one of: Partridge Pea Bush Clover Wild Indigo Shaw's Tick-Tree	10 10 8 30 5 3 3 3 2	0.23 0.23 0.18 0.69 0.11 0.07 0.07 0.07 0.05	O	A ⁴	O	O	A ⁴	Creeping Red Fescue will provide erosion protection while the warm season grasses get established.		

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 2 of 4 Effective January 2026

Standard Detail & Specifications Vegetative Stabilization

PERMANENT SEEDING AND SEEDING DATES (cont.)											
Mix No.	Certified Seed ²	Seeding Rate ¹	Optimum Seeding Dates ²						Remarks		
			O = Optimum Planting Period; A = Acceptable Planting Period								
	Poorly Drained Soils	lb/1000 sq.ft.	2/1-4/30	5/1-8/14	8/15-10/31	3/1-4/30	5/1-7/31	10/31-2/1			
9	Rusttop Creeping Bentgrass Sheep Fescue Rough Bluegrass	75 35 30 45	1.72 0.8 0.69 1	O	A ⁴	O	O	A ⁴	Quick stabilization of disturbed sites and waterways		
10	Switchgrass ⁷	10	0.23	A		O	A		Good erosion control, wildlife cover and wetland revegetation.		
Residential Lawns											
11	Tall Fescue Perennial Ryegrass Kentucky Bluegrass Blend	100 25 30	2.3 0.57 0.69	O	A ⁴	O	O	A ⁴	High value, high maintenance, light traffic, irrigation necessary. Well drained soils, full sun.		
12	Tall Fescue Perennial Ryegrass Sheep Fescue	100 25 25	2.3 0.57 0.57	O	A ⁴	O	O	A ⁴	Moderate value, low maintenance, traffic tolerant.		
13	Creeping Red Fescue Chewings Fescue Rough Bluegrass Kentucky Bluegrass	50 50 20 20	1.15 1.15 0.4 0.4	O	A ⁴	O	O	A ⁴	Shade tolerant, moderate traffic tolerance, moderate maintenance.		
14	Creeping Red Fescue Rough Bluegrass or Chewings Fescue	50 90	1.15 2.1	O	A ⁴	O	O	A ⁴	Shade tolerant, moisture tolerant.		
15	K-31 Tall Fescue	150	3.5	O	A ⁴	O	O	A ⁴	Monoculture, but performs well alone in lawns. Discouraged.		

1. When hydroseeding is the chosen method of application, the total rate of seed should be increased by 25%.
 2. Winter seeding requires 3 tons per acre of straw mulch. Planting dates listed above are average for Delaware. These dates may require adjustment to reflect local conditions.
 3. All seed shall meet the minimum purity and minimum germination percentages recommended by the Delaware Department of Agriculture. The maximum % of weed seeds shall be in accordance with Chapter 15, Title 3 of the Delaware Code.
 4. Turf-type species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
 5. It is recommended that all leguminous seed be inoculated.
 6. Warm season grass mix and Switchgrass cannot be mowed more than 4 times per year.
 7. Warm season grasses require a soil temperature of at least 50 degrees in order to germinate and will remain dormant until then.

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective January 2026

Standard Detail & Specifications Vegetative Stabilization

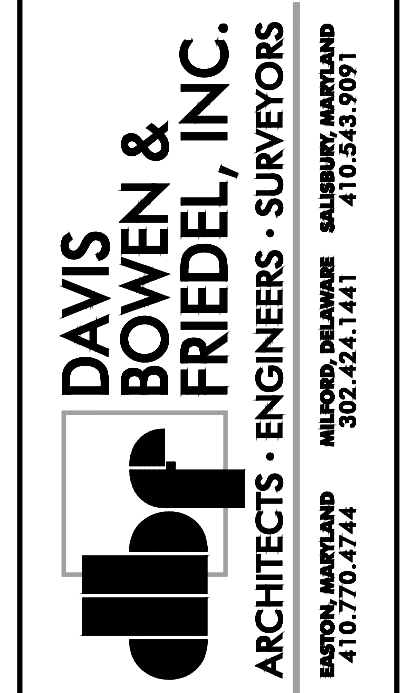
Construction Notes:

- Site Preparation**
 - Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins.
 - Final grading and shaping is not necessary for temporary seedings.
- Seedbed Preparation**

It is important to prepare a good seedbed to ensure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted.
- Soil Amendments**
 - Lime - Apply liming materials based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil.
 - Fertilizer - Apply fertilizer based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly and incorporate into the top 4 to 6 inches of soils.
- Seeding**
 - For **temporary stabilization**, select a mixture from **Sheet 1**. For a **permanent stabilization**, select a mixture from **Sheet 2** or **Sheet 3** depending on the conditions. Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.
 - Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth.
 - Seed that has been broadcast should be covered by raking or dragging and then **lightly** tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without interruption.
- Mulching**

All mulching shall be done in accordance with detail **DE-ESC-3.4.5**.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 4 of 4 Effective January 2026



**DELAWARE VETERANS CEMETERY
 COLUMBARIUM EXPANSION
 PENCADER HUNDRED
 BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	10/13/2026	ADDRESS (NREC) COMMENTS
Date: JANUARY 2026		
Scale: AS SHOWN		
Dwn By: CLB		
Proj. No.: 0586B065.B01		
SSM CONSTRUCTION DETAILS		
Dwg No.: C-405		

Standard Detail & Specifications
Mulching

1. Materials and Amounts

a. **Straw** - Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds (two bales) per 1,000 square feet. Mulch materials shall be relatively free of weeds and shall be free of noxious weeds such as; thistles, Johnsongrass, and quackgrass. Spread mulch uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square feet sections and place 70-90 pounds (two bales) of mulch in each section.

b. **Wood chips** - Apply at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square feet when available and when feasible. These are particularly well suited for utility and road rights-of-way. If wood chips are used, increase the application rate of nitrogen fertilizer by 20 pounds of N per acre (200 pounds of 10-10-10 or 66 pounds of 30-0-0 per acre).

c. **Hydraulically applied mulch** - The following conditions apply to hydraulically applied mulch:

i. **Definitions:**

a. Wood fiber mulch shall consist of specially prepared wood that has been processed to a uniform state, is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment, and consists of a minimum of 70% virgin or recycled wood fiber combined with 30% paper fiber and additives.

b. Blended fiber mulch shall consist of any hydraulic mulch that contains greater than 30% paper fiber. The paper component must consist of specially prepared paper that has been processed to a uniform fibrous state and is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment.

c. A bonded fiber matrix (BFM) consists of long strand, specially prepared wood fibers that have been processed to a uniform state held together by a water resistant bonding agent. BFMs shall contain no paper (cellulose) mulch but may contain small percentages of synthetic fibers to enhance performance.

d. Refer to **Figure 3.4.5a** for conditions and limitations of use for each of the above categories of hydraulic mulch.

ii. All components of the hydraulically applied mulches shall be pre-packaged by the manufacturer to assure material performance. Field mixing of the mulch components is acceptable, but must be done per manufacturers recommendations to ensure the proper results.

iii. Hydraulic mulches shall be applied with a viable seed and at manufacturer's recommended rates. Increased rates may be necessary based on site conditions.

iv. Hydraulically applied mulches and additives shall be mixed according to manufacturers recommendations.

v. Materials within this category shall only be used when hydraulically applied mulch has been specified for use on the approved Sediment and Stormwater Plan, or supplemental approval from the plan approval agency has been obtained in writing for a specific area.

Standard Detail & Specifications
Mulching

v. Application:

a. Apply product to geotechnically stable slopes that have been designed and constructed to divert runoff away from the face of the slope.

b. Do not apply to saturated soils, or if precipitation is anticipated within 24-48 hours.

c. During the spring (March 1 to May 31) and fall (September 1 to November 30) seasons, hydraulic mulches may be applied in a one-step process where all components are mixed together in single-tank loads. It is recommended that the product be applied from opposing directions to achieve optimum soil coverage.

d. During the summer (June 1 to August 31) and winter (December 1 to February 28) seasons, the following two-step process is required:

Step One - Mix and apply seed and soil amendments with a small amount of mulch for visual metering.

Step Two - Mix and apply mulch at manufacturers recommended rates over freshly seeded surfaces. Apply from opposing directions to achieve optimum soil coverage.

e. Minimum curing temperature is 40°F (4°C). The best results and more rapid curing are achieved at temperatures exceeding 60°F (15°C). Curing times may be accelerated in high temperature, low humidity conditions on dry soils.

vi. Recommended application rates are for informational purposes only. Conformance with this standard and specification shall be performance-based and requires **100% soil coverage**. Any areas with bare soil showing shall be top dressed until full coverage is achieved.

d. **Compost blanket (CB)** - Loosely applied with a pneumatic blower so that a 1" compost blanket uniformly covers the soil with **100% coverage**. This application can be used with seed to promote germination by applying the approved seed mix directly into the loosely blown compost. The compost blanket performs best on slopes less than 2:1 and requires no mulch anchoring.

2. Anchoring mulch - Mulch must be anchored immediately to minimize loss by wind or water. This may be done by one of the following methods, depending upon size of area, erosion hazard, and cost.

a. **Crimping** - A crimper is a tractor drawn implement designed to punch and anchor mulch into the top two (2) inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely. On sloping land, crimping should be done on the contour whenever possible.

b. **Tracking** - Tracking is the process of cutting mulch (usually straw) into the soil using a bulldozer or other equipment that runs on cleated tracks. Tracking is used primarily on slopes 3:1 or steeper and should be done up and down the slope with cleat marks running across the slope.

c. **Liquid mulch binders** - Applications of liquid mulch binders should be heavier at edges, in valleys, and at crests of banks and other areas where the mulch will be moved by wind or water. All other areas should have a uniform application of binder. The use of synthetic binders is the preferred method of mulch binding and should be applied at the rates recommended by the manufacturer.

d. **Paper fiber** - The fiber binder shall be applied at a net dry weight of 750 lbs/ac. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons.

e. **Nettings** - Biodegradable nettings may be used to secure straw mulch. Install and secure according to the manufacturer's recommendations. Photodegradable or synthetic nettings are not acceptable.

Standard Detail & Specifications
Mulching

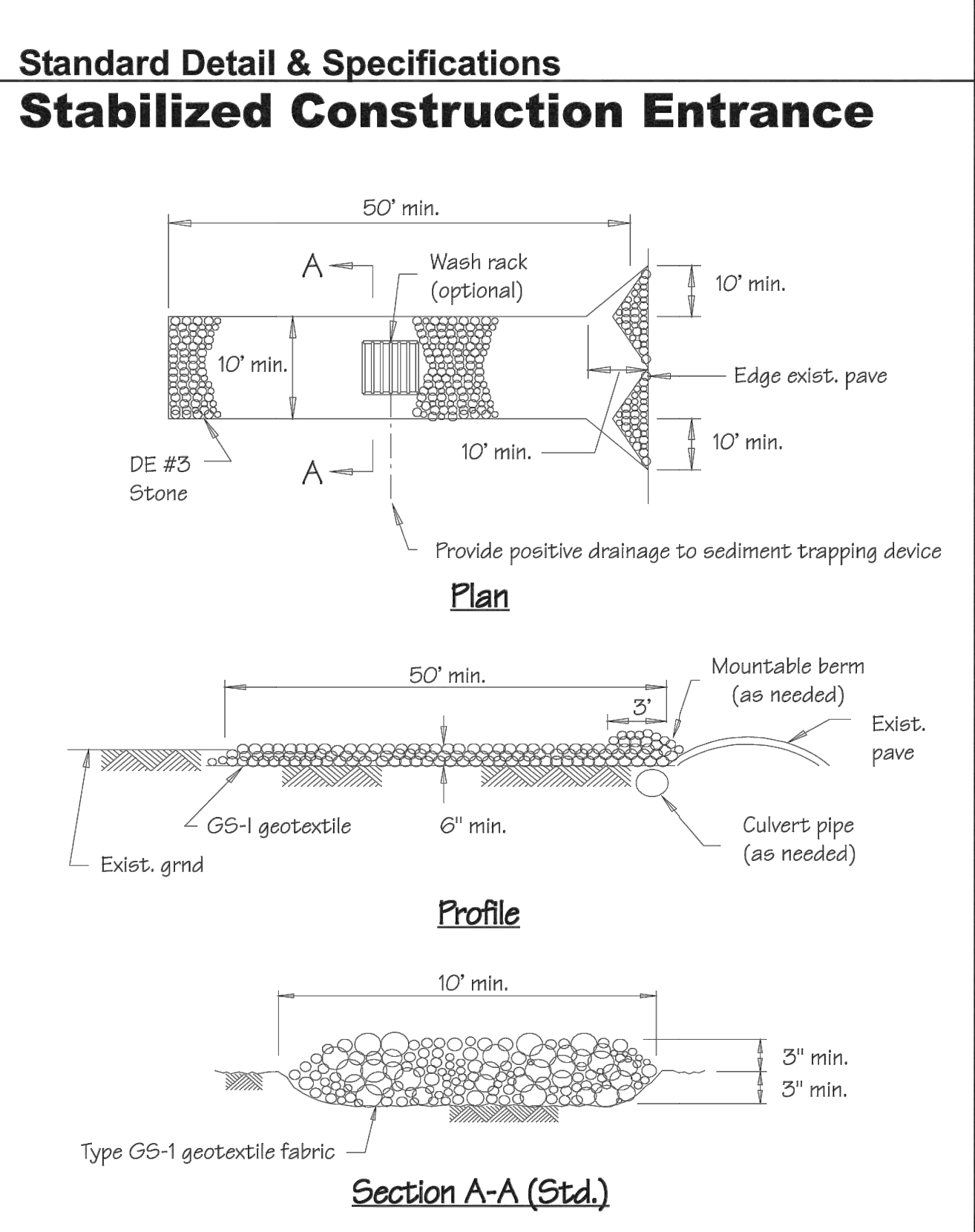
MULCHING MATERIAL SELECTION GUIDE

Percent Slope	Type of Mulch / Appl. Rate	Dec. 1 to Feb. 28/29	March 1 to May 31	June 1 to Aug. 31	Sept. 1 to Nov. 30
Less than 2%	Blended Fiber @ 2000 lbs/ac. min. Wood Fiber @ 2000 lbs/ac. min. Straw @ 2 Tons/ac. Min. Substitution Mailing**	OK	OK	OK	OK
2% to 3.9%	Wood Fiber @ 2000 lbs/ac. min. BPM @ 3000-3500 lbs/ac. min. Straw @ 2 Tons/ac. min. Substitution Mailing**	OK	OK	OK	OK
4% to 10.9%	Wood Fiber @ 2000-2500 lbs/ac. min. BPM @ 3500-4000 lbs/ac. min. Straw @ 2 Tons/ac. min. Substitution Mailing**	OK	OK	OK	OK
11% to 24.9%	Wood Fiber @ 2500-3000 lbs/ac. min. BPM @ 4000 lbs/ac. min. Straw @ 2 Tons/ac. min. Substitution Mailing**	OK	OK	OK	OK
25% to 35%	Wood Fiber @ 3000-3500 lbs/ac. min. BPM @ 4500 lbs/ac. min. Straw @ 2 Tons/ac. min. Substitution Mailing**	OK	OK	OK	OK
35% and up	Wood Fiber @ 3500-4000 lbs/ac. min. BPM @ 5000 lbs/ac. min. Straw @ 2 Tons/ac. min. Substitution Mailing**	OK	OK	OK	OK

1" Compost Blanket (CB)

OK

Notes: Manufacturer Recommended Rates for informational purposes only. Performance standard requires 100% soil coverage. OK = Show approved on slopes greater than 30% must be verified (this does not apply to hospital disciplines). XXX = Not acceptable to use during this time period. All application rates are minimums.



Source: Delaware ESC Handbook & Filtrxxx™ International
Symbol: **SCE**
Detail No. **DE-ESC-3.4.5** Sheet 1 of 3 Effective January 2026

Source: Delaware ESC Handbook & Filtrxxx™ International
Symbol: **SCE**
Detail No. **DE-ESC-3.4.5** Sheet 2 of 3 Effective January 2026

Source: Delaware ESC Handbook & Filtrxxx™ International
Symbol: **SCE**
Detail No. **DE-ESC-3.4.5** Sheet 3 of 3 Effective January 2026

Source: Adapted from VA ESC Handbook
Symbol: **SCE**
Detail No. **DE-ESC-3.4.7** Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications
Stabilized Construction Entrance

Section A-A (Opt.)

Construction Notes:

- Stone size** - Use DE #3 stone.
- Length** - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness** - Not less than size (6) inches.
- Width** - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Geotextile** - Type GS-1; placed over the entire area prior to placing of stone.
- Surface Water** - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance** - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing** - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Inspection** - Periodic inspection and needed maintenance shall be provided after each rain.

Standard Detail & Specifications
Construction Site Pollution Prevention

Delaware NPDES Discharge Permit
General Permit for Discharge of Stormwater from Construction Activities

((Project Name))
((NOI Permit Number))
((Agency Plan Approval ID))
((Contact Name & Number for Additional Site Information))
((Contact Name & Number to Obtain Copy of Approved Plan))

If you observe indicators of stormwater pollutants in the discharge or in the receiving waterbody, call the DNREC Spill Notification 24 HR Hotline at **1-800-662-8802**

NOTES:

- Minimum sign size 2' x 2'
- Minimum text size 1"
- Sign must be posted at a safe, publicly accessible location close to construction site
- Sign must be visible from the public road nearest the active construction site
- Signs posted within a De/DOT or other public road right-of-way (ROW) must be in accordance with all local and/or State requirements in regards to safety, location, orientation, etc.

Example Construction General Permit (CGP) Signage

Standard Detail & Specifications
Construction Site Pollution Prevention

1) Equipment and Vehicle Fueling and Maintenance

- Minimize spills and leaks of fuels and oils.
- Fuel only in marked areas a minimum of 50 feet away from drains and watercourses. Use automatic shut-off nozzles and do not top off tanks. Provide lighting if fueling at night.
- Use berms or other barriers around fueling, maintenance, and parking areas to prevent stormwater from running through and to contain spills. Use drip pans during maintenance.
- Take equipment and vehicles to off-site facilities for maintenance when possible.
- Check vehicles and equipment daily for leaks. Repair immediately or remove from site.
- Clean up any spills right away. Do not hose them down.

2) Equipment and Vehicle Washing

- Minimize discharge of pollutants from wash water.
- Use off-site commercial wash facilities when possible.
- If washing on-site, use high-pressure water without detergents in a contained area with an impervious berm.
- Dispose of concrete washout water only in designated washout areas for hardening and proper disposal.
- Do not discharge soaps, solvents, or detergents.
- Store soaps, detergents, and solvents under cover (e.g., plastic sheeting, temporary roofs) or use another effective method to prevent contact with stormwater.

3) Storage, Handling, and Disposal of Building Products, Materials, and Waste

- Minimize exposure of materials, products, and waste to rain, stormwater, and wind.
- Building materials and products:
 - Cover materials (e.g., plastic sheeting, tarp, or roof) to prevent contact with rain and stormwater. Final building materials and products intended for outdoor use do not require cover.
 - Secure materials (e.g., tarp, mesh, or lidded dumpster) to protect from wind.

Standard Detail & Specifications
Construction Site Pollution Prevention

c. Construction and domestic waste:

- Provide enough containers (e.g., dumpsters, trash bins) to hold all waste.
- Keep container lids closed when not in use and during storms.
- For containers without lids, cover with a tarp or temporary roof to prevent exposure to rain and wind.
- Do not dump or allow liquid wastes (e.g., paint, solvents, chemicals) to enter the ground, drains, or waterways.

d. Dispose of waste in designated containers and clean up loose trash immediately.

e. Empty dumpsters when at 80% capacity by volume.

f. Waste containers are not required for final building materials and products if stored separately from other construction, domestic or other waste. If mixed, the waste must be managed as construction and domestic waste in Section 3(c).

4) Hazardous Materials, Other Chemicals and Sanitary Waste:

- Store hazardous materials and chemicals under cover or in secondary containment, at least 50 feet from drains or waterways.
- Keep containers labeled, sealed, watertight, and closed when not in use.
- Store contaminated waste in sealed, labeled containers made of suitable material.
- Dispose of hazardous materials according to Delaware laws and regulations.
- Post spill reporting contact information clearly on site.

5) Pesticides, Herbicides, Fertilizers, and Landscape Material:

- Keep all products labeled and covered (e.g., plastic sheeting or temporary roofs) to prevent contact with rain and stormwater.
- Provide similarly effective protection methods, such as storing fertilizer in a weatherproof area or on a covered pallet, to minimize polluted run-off.
- Apply all products according to state and federal regulations.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number 800-662-8802
DNREC Solid & Hazardous Waste Management Section 302-739-9403

Source: Adapted from VA ESC Handbook
Symbol: **SCE**
Detail No. **DE-ESC-3.4.7** Sheet 2 of 2 Effective January 2026

Source: Delaware ESC Handbook
Symbol: **SCE**
Detail No. **DE-ESC-3.6.1** Sheet 1 of 3 Effective January 2026

Source: Adapted from USEPA CGP 2022 (as modified)
Symbol: **SCE**
Detail No. **DE-ESC-3.6.1** Sheet 2 of 3 Effective January 2026

Source: Adapted from USEPA CGP 2022 (as modified)
Symbol: **SCE**
Detail No. **DE-ESC-3.6.1** Sheet 3 of 3 Effective January 2026

DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
MILFORD, DELAWARE 410.345.9091
WILMINGTON, DELAWARE 410.770.4744

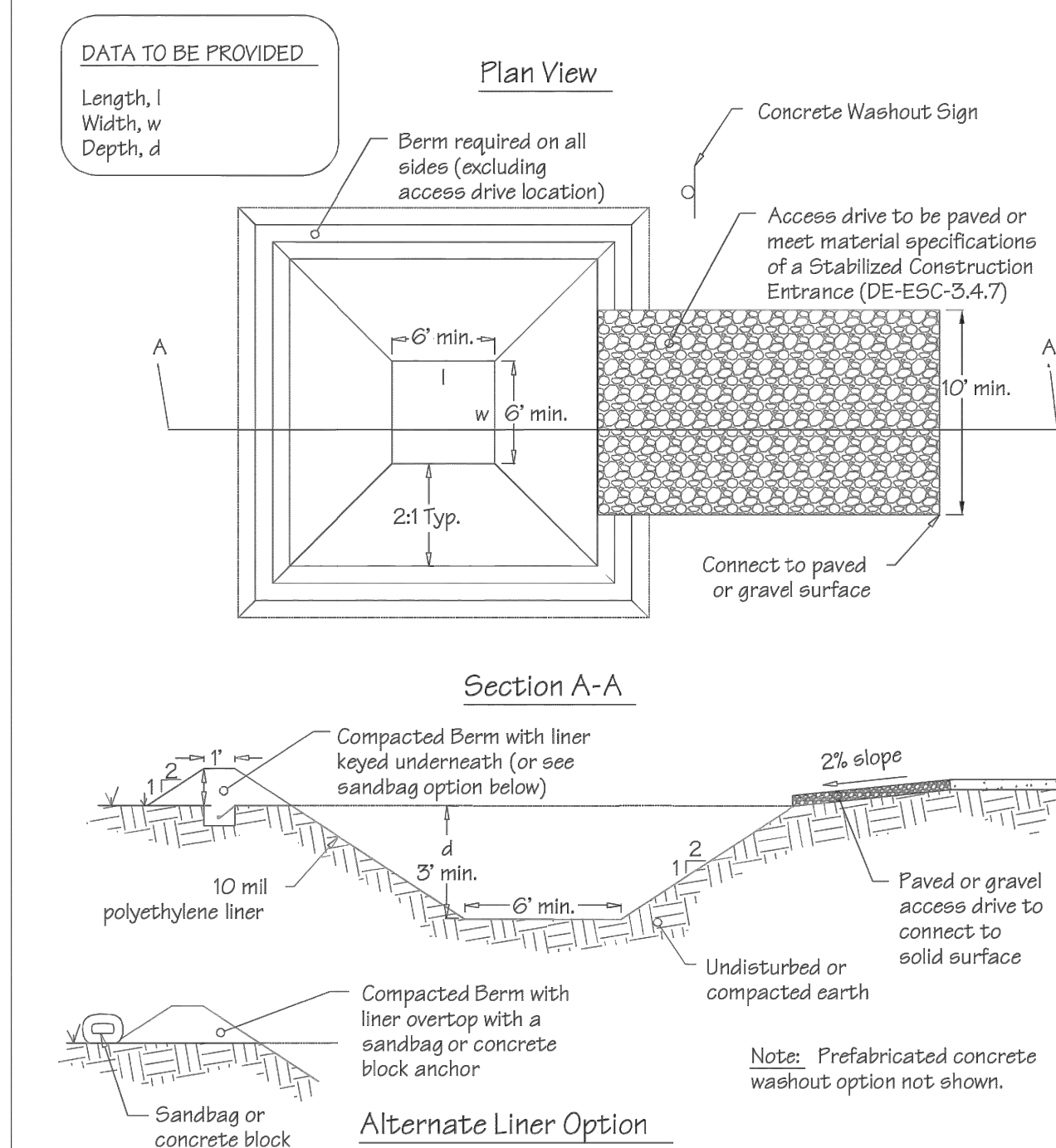
NO.	DATE	COMMENTS
1	10/13/2026	ADDRESS DNREC COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn By: CLB
Proj. No.: 0586B065.B01

SSM CONSTRUCTION DETAILS

Dwg No.: **C-406**

**Standard Detail & Specifications
Concrete Washout**



Source: Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	Symbol: CW	Detail No. DE-ESC-3.6.2 Sheet 1 of 2 Effective January 2026
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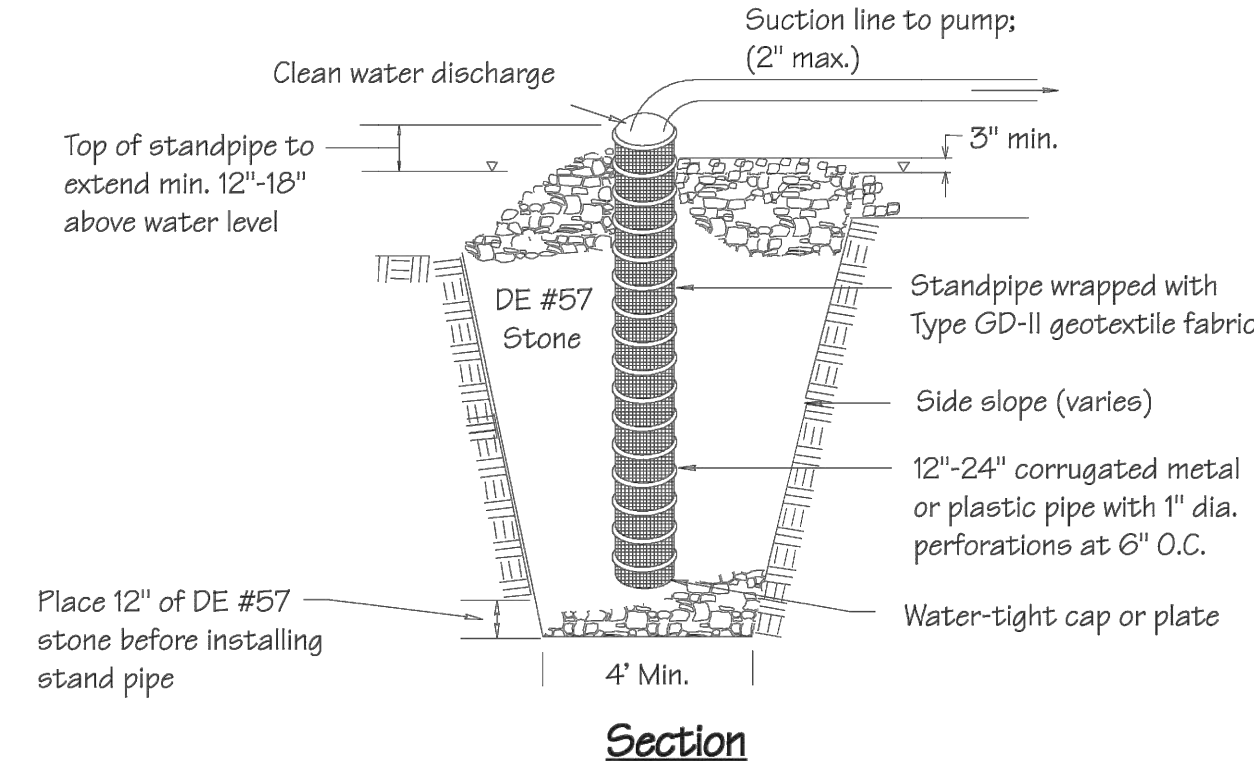
**Standard Detail & Specifications
Concrete Washout**

Construction Notes:

1. Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.
2. Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.
3. Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.
4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overtop with sandbags or concrete blocks to hold in place.
5. Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
7. Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

Source: Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	Symbol: CW	Detail No. DE-ESC-3.6.2 Sheet 2 of 2 Effective January 2026
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**Standard Detail & Specifications
Pumping Pit - Type 1**



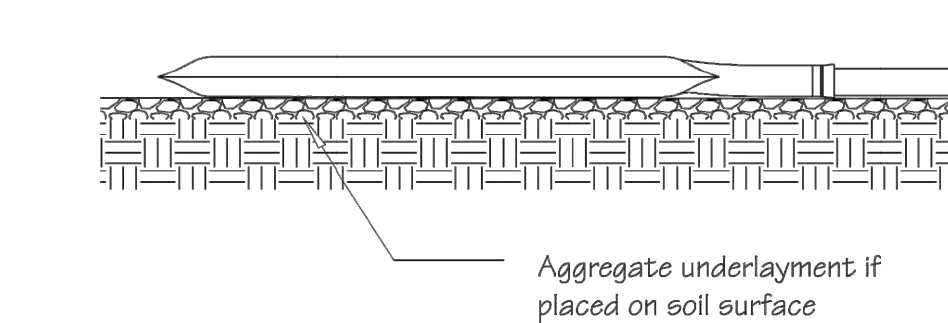
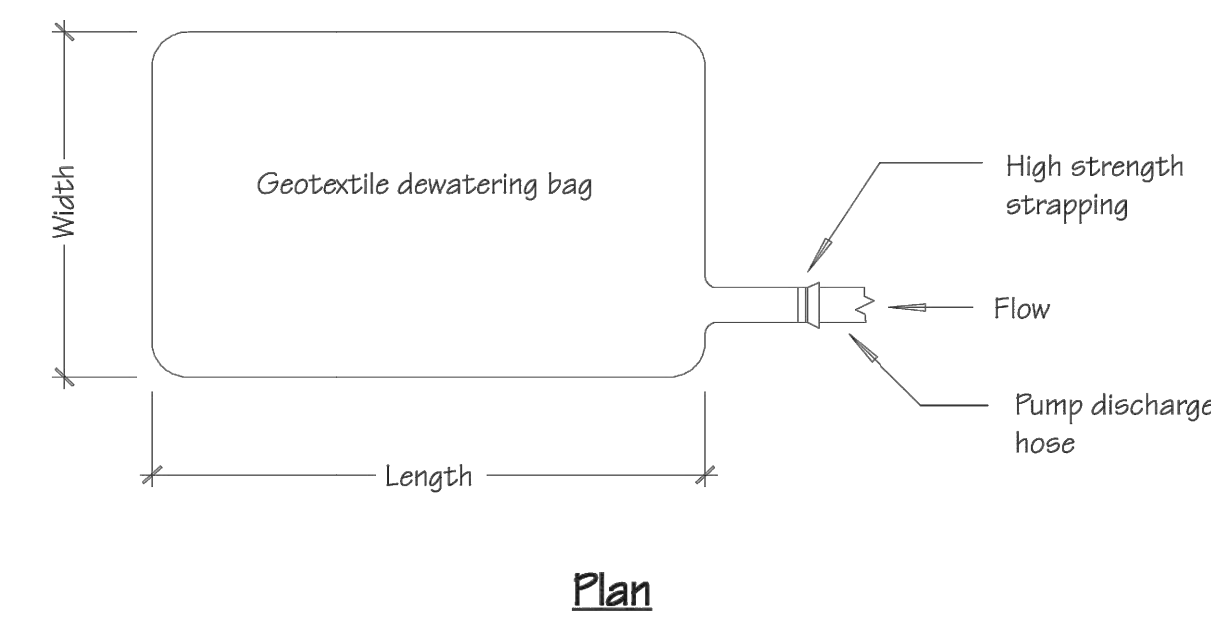
Construction Notes:

1. Pit dimensions are variable.
2. The standpipe should be constructed by perforating a 12" to 24" diameter corrugated or PVC pipe. The perforations shall be 1/2" X 6" slits or 1" diameter holes 6" on center.
3. A base of DE #57 aggregate should be placed in the pit to a depth of 12". After installing the standpipe, the pit surrounding the standpipe should then be backfilled with DE #57 aggregate.
4. The standpipe should extend 12" to 18" above the lip of the pit or riser crest elevation (basin dewatering).

NOTE: If discharge will be pumped directly to a storm drainage system, the standpipe must be wrapped with Type GD-II geotextile fabric before installation. If desired, 1/2" hardware cloth may be placed around the standpipe, prior to attaching the geotextile fabric. This will increase the rate of water seepage into the pipe.

Source: Adapted from MD Stds. & Specs. for ESC	Symbol: PP-1	Detail No. DE-ESC-3.2.2.1 Sheet 1 of 1 Effective January 2026
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**Standard Detail & Specifications
Geotextile Dewatering Bag**



NOTE: Pre-manufactured products installed in accordance with manufacturer's recommendations may be used as an equivalent substitute with Departmental approval.

Source: Adapted from ACF Products, Inc.	Symbol: GB	Detail No. DE-ESC-3.2.1.2 Sheet 1 of 2 Effective January 2026
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**Standard Detail & Specifications
Geotextile Dewatering Bag**

Construction Notes:

1. The dewatering bag should be placed so the incoming water flows into and through the bag, and then flow off the site without creating more erosion. The neck should be tied off tightly to stop the water from flowing out of the bag without going through the walls. The dewatering bag should be placed on a gravel bed to allow water to flow in all directions.
2. The dewatering bag is considered full and should be disposed when it is impractical for the bag to filter the sediment out at a reasonable flow rate. At this point, it should be replaced with a new bag.
3. Disposal may be accomplished as directed by the construction reviewer. If the site allows, the bag may be buried on site and seeded, visible fabric removed and seeded or removed from site to a proper disposal area.

Materials:

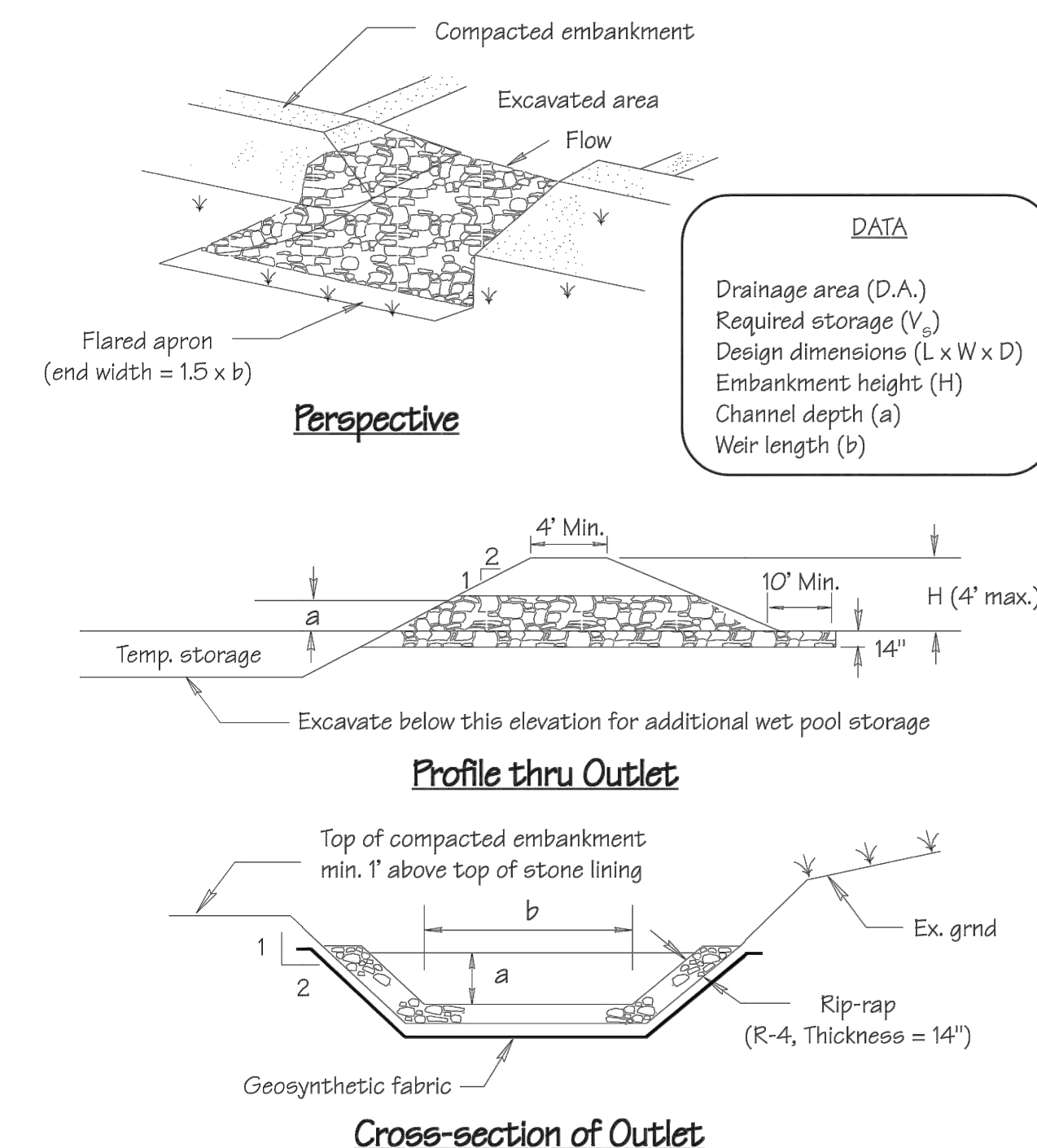
1. The geotextile fabric shall be a Type GD-IV.
2. The dewatering bag shall be sewn with a double needle machine using high strength thread. All structural seams will be sewn with high strength, double stitched "J" type. Seam strength test will have the following minimum average roll values:

Type	TEST METHOD	TEST RESULT
Heavy duty	ASTM D-4884	100 lb / in

3. The dewatering bag shall have an opening large enough to accommodate a four (4) inch discharge hose with attached strap to tie off the hose to prevent the pumped water from escaping from the bag without being filtered.

Source: Adapted from ACF Products, Inc.	Symbol: GB	Detail No. DE-ESC-3.2.1.2 Sheet 2 of 2 Effective January 2026
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**Standard Detail & Specifications
Riprap Outlet Sediment Trap**



DATA
Drainage area (D.A.)
Required storage (V _s)
Design dimensions (L x W x D)
Embankment height (H)
Channel depth (a)
Weir length (b)

**Standard Detail & Specifications
Riprap Outlet Sediment Trap**

Construction Notes:

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be four (4) feet, measured at centerline of the embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to the elevation of the crest of the outlet weir channel.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet shall be R-4 riprap with a thickness of 14".
8. An approved dewatering device shall be considered an integral part of the trap. Dewatering operations shall be conducted in accordance with any and all regulatory requirements.
9. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
10. The structure shall be inspected after each rain and repaired as needed.
11. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized. Disturbed areas shall be stabilized in accordance with the Standards and Specifications for vegetative Stabilization contained in this Handbook.
12. The structure shall be removed and the area stabilized when the contributing drainage area has been properly stabilized.

MAXIMUM DRAINAGE AREA: 15 ACRES

Source: Adapted from MD Stds. & Specs. for ESC	Symbol: RST	Detail No. DE-ESC-3.1.3.3 Sheet 2 of 2 Effective January 2026
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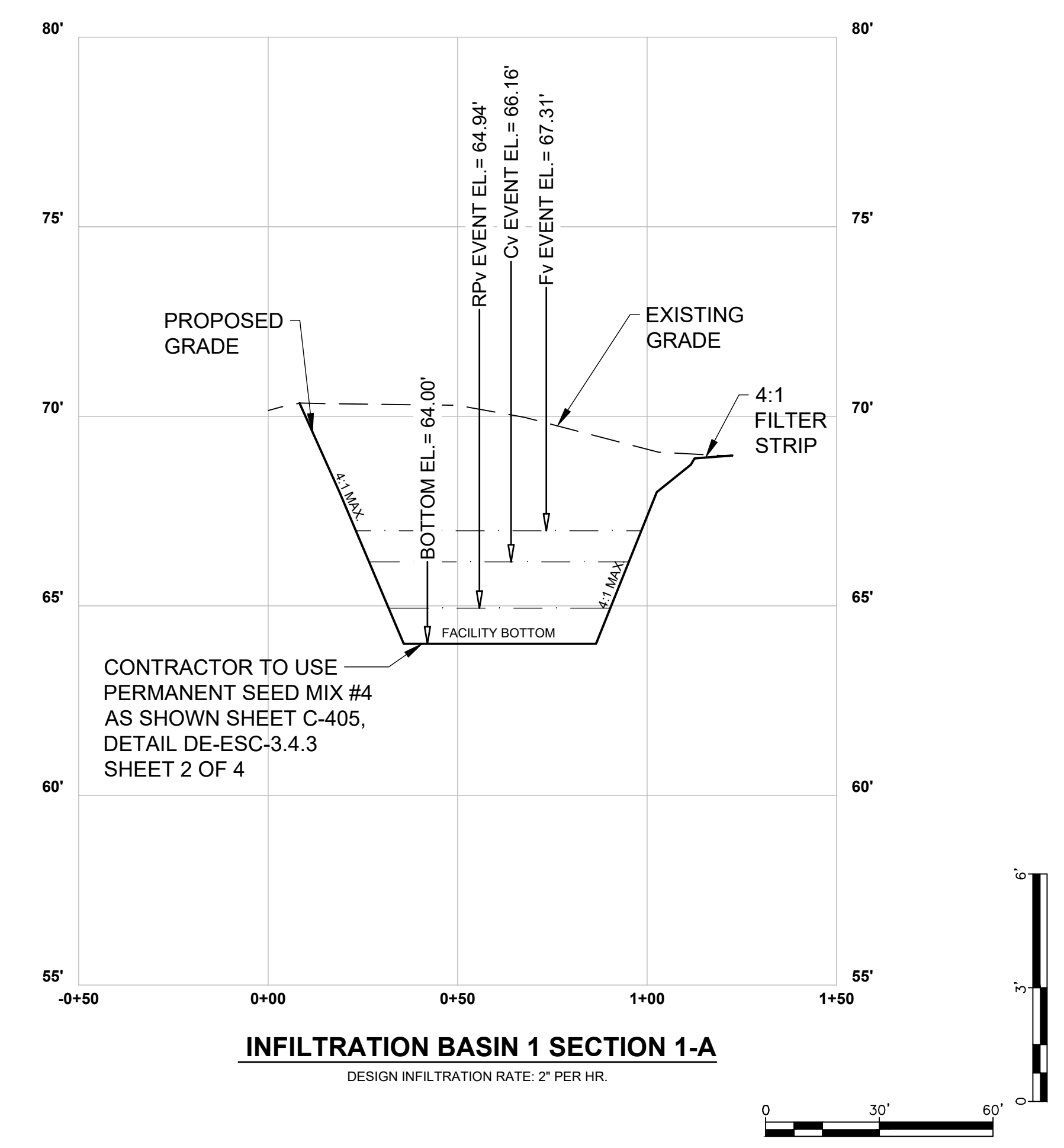
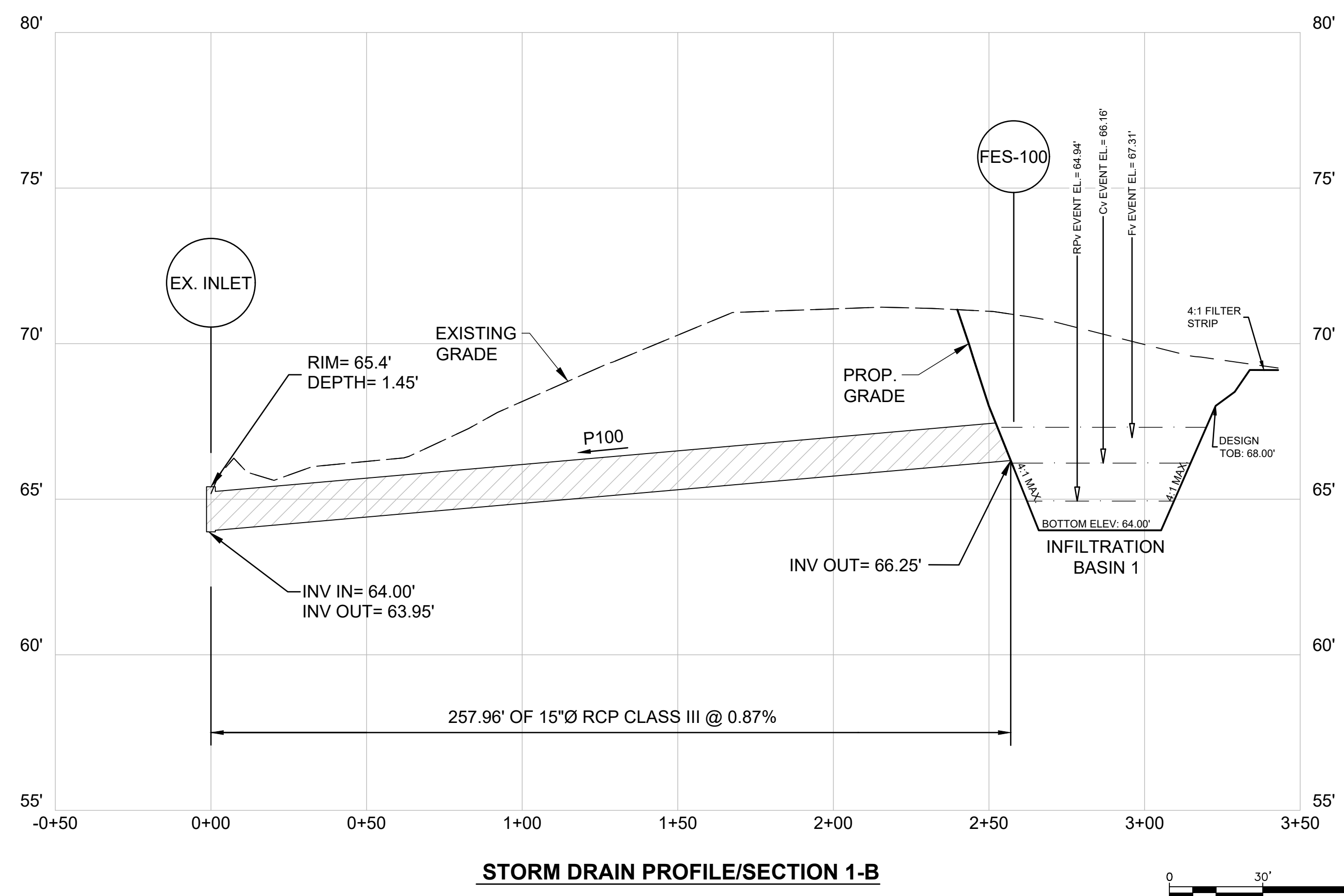
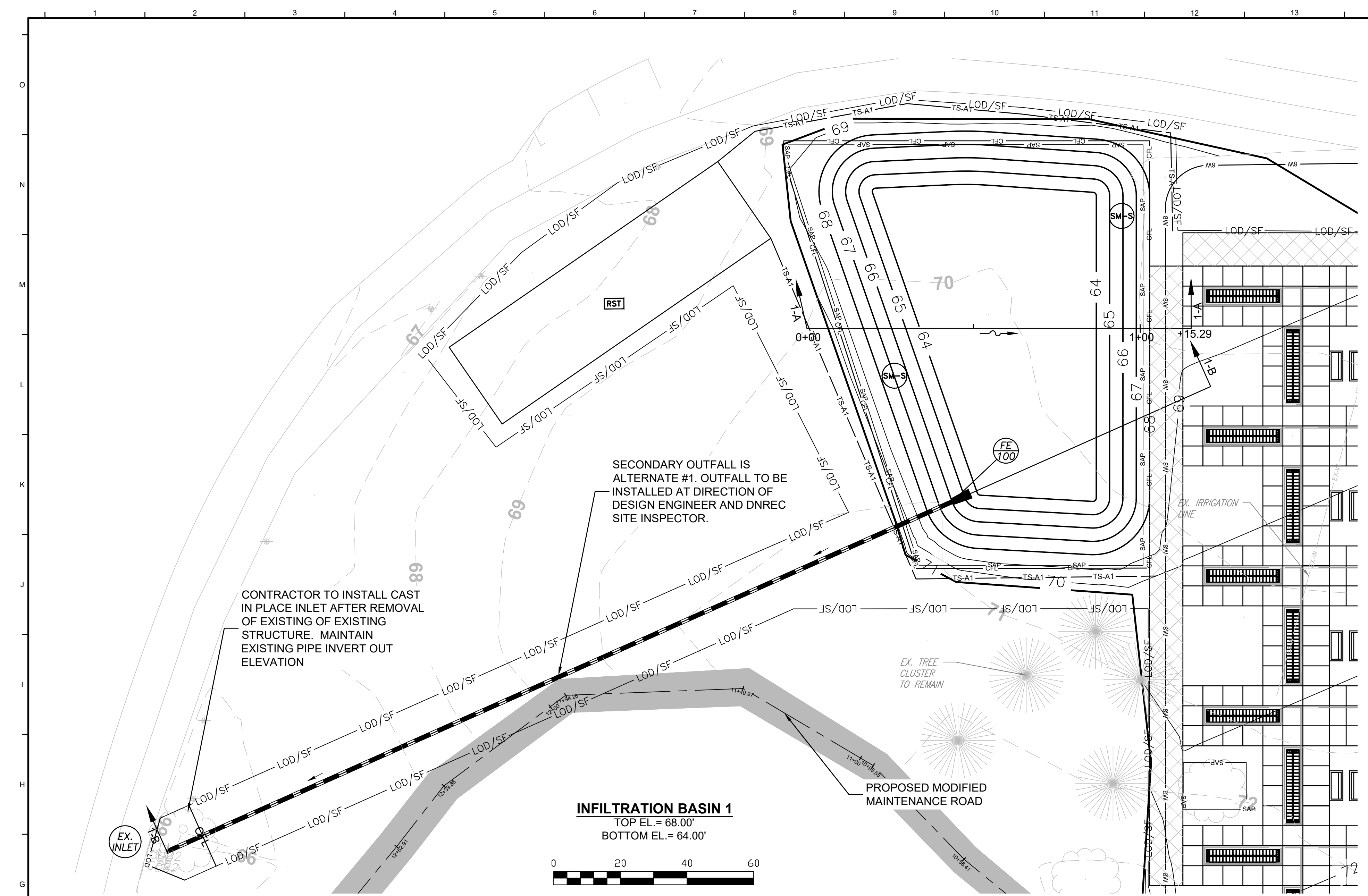
**DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	10/13/2026	ADDRESS CHANGE COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn By: CLB
Proj No.: 0586B065.B01

**SSM
CONSTRUCTION
DETAILS**

Dwg No.:
C-407



INFILTRATION BASIN 1 SEQUENCE OF CONSTRUCTION

1. NOTIFY DNREC, GEO-TECHNICAL ENGINEER OF RECORD AND THIRD PARTY CCR OF INTENT TO BEGIN CONSTRUCTION.
2. BMP CONSTRUCTION REVIEW WITH CONTRACTOR, GEO-TECHNICAL ENGINEER, THIRD PARTY CCR AND DNREC INSPECTOR TO DISCUSS HOW EQUIPMENT SHOULD BE UTILIZED TO AVOID FACILITY COMPACTION.
3. THIRD PARTY CCR OR GEO-TECHNICAL ENGINEER / SOIL SCIENTIST TO CONDUCT CONSTRUCTION REVIEWS, INCLUDING PICTURES, OF:
 - 3.1. EXCAVATION AND GRADING INCLUDING INTERIM AND FINAL ELEVATIONS.
 - 3.2. OBSERVATION OF INFILTRATION SURFACE AND INFILTRATION PRACTICE VERIFICATION CHECKLIST TO BE COMPLETED.
 - 3.3. STABILIZE BOTTOM AND SIDE SLOPES WITH PERMANENT SEED MIX #4 AS SHOWN ON STANDARD DETAIL ON SHEET C-405.
 - 3.4. GEO-TECHNICAL ENGINEER / SOIL SCIENTIST OF RECORD TO BE PRESENT DURING THE COMPLETE CONSTRUCTION OF POND FOR OVERSIGHT, VERIFICATION THAT THE SOIL PROFILE IS CONSISTENT WITH THE PROJECT SOILS REPORT, AND DIRECT REMOVAL / UNDERCUTTING OF MATERIAL AS NECESSARY.
4. EXCAVATION TO BE PERFORMED BY BACKHOE FROM OUTSIDE FACILITY TOP OF BANK. THE PREFERRED METHODOLOGY IS FOR THE BACKHOE TO BEGIN FROM END OF FACILITY AND EXCAVATE TO PERMANENT FACILITY BOTTOM AS IT BACKS OUT SO AS NOT TO TRAVERSE BOTTOM OR SIDE SLOPES.
5. (ALT) 1/2" OUTFALL PIPE ONLY TO BE INSTALLED IF INFILTRATION RATES ARE LESS THAN DESIGN RATES.
6. PERFORM CONFIRMATORY TESTING OF THE NATIVE SOILS INFILTRATION RATE AND SEPARATION OF FACILITY BOTTOM FROM SEASONAL HIGH GROUNDWATER OF THE FACILITY SHALL BE VERIFIED PER SIP GUIDELINES ONCE EXCAVATION IS COMPLETE. NOTIFY DESIGN ENGINEER AND DNREC SITE INSPECTOR IF THE CONFIRMATORY RATES DO NOT MEET REGULATIONS.
7. THE DNREC SITE INSPECTOR TO PERFORM FINAL CONSTRUCTION REVIEW INCLUDING DEVELOPMENT OF A PUNCH LIST FOR FACILITY ACCEPTANCE.
8. BEFORE PROJECT COMPLETION, OWNER SHALL SUBMIT A FINAL POST CONSTRUCTION OPERATION & MAINTENANCE PLAN.

OPERATION AND MAINTENANCE NOTES

1. THE DNREC SEDIMENT AND STORMWATER PROGRAM RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE REVIEWS.
2. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHOULD BE NOTIFIED WITHIN 30 BUSINESS DAYS IF THE PROPERTY OWNERSHIP IS TRANSFERRED TO A NEW PERSON OR ENTITY.
3. THE DNREC SEDIMENT AND STORMWATER PROGRAM MAY SEEK ENFORCEMENT ACTION AGAINST ANY OWNER DEEMED NEGLIGENT IN FULFILLING THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
4. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHOULD BE CONTACTED IF A CONCERN ARISES REGARDING A STORMWATER MANAGEMENT FACILITY, BEFORE ANY NON-ROUTINE MAINTENANCE, OR IF MODIFICATIONS TO THE FACILITY ARE DESIRED.
5. ANY DESIGN MODIFICATIONS MADE TO THE STORMWATER SYSTEM SHALL REQUIRE THE CREATION OF A NEW POST CONSTRUCTION STORMWATER MANAGEMENT PLAN AND/OR OPERATIONS AND MAINTENANCE PLAN, WITH APPROVAL OF THE PLANS BY THE DNREC SEDIMENT AND STORMWATER PROGRAM.
6. FOR ALL STORMWATER EASEMENT AREAS (I.E., ACCESS, MAINTENANCE, OR OFFSITE) AND THE MINIMUM 15-FOOT ACCESSWAYS TO ALL STORMWATER FACILITIES AND THEIR STRUCTURAL COMPONENTS, REGULAR MOWING SHOULD BE PERFORMED TO KEEP THE GRASS 6 INCHES OR LESS; NO TREES OR SHRUBS SHOULD BE PLANTED, AND ANY FOUND GROWING SHOULD BE REMOVED; AND NO PERMANENT STRUCTURES, SUCH AS FENCES OR SHEDS, SHOULD BE LOCATED WITHIN THE EASEMENT OR ACCESSWAY.
7. TREES SHOULD NOT BE PLANTED, AND SHOULD BE REMOVED IF FOUND GROWING, ON AND WITHIN 15 FEET OF ALL POND EMBANKMENTS, ON POND SLOPES OR SAFETY BENCHES, AND WITHIN 10 FEET OF STRUCTURAL COMPONENTS, SUCH AS PIPE INLETS.
8. WHEN THE FACILITY IS EXCAVATED TO REMOVE ACCUMULATED SEDIMENT, THE DISPOSAL AREA SHALL BE PERMANENTLY STABILIZED SO THAT IT DOES NOT RECREATE AN EROSION PROBLEM. ANY MATERIAL TAKEN OFFSITE SHALL STILL BE USED OR DISPOSED OF IN AN APPROVED DNREC MANNER.
9. THE ACCUMULATED SEDIMENT REMOVED FROM THE FACILITY DURING MAINTENANCE SHALL BE HAULED OFFSITE.
10. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.

PROPOSED FLARED END SCHEDULE (FES)

LABEL	SIZE (IN.)	TYPE	INVERT (FT.)
FE-100	15	RCP-III	66.25

PIPE SCHEDULE

LABEL	DESCRIPTION						INVERT ELEVATION		
	FROM	TO	SIZE (")	TYPE	LENGTH	CLASS	SLOPE	UP	DOWN
P100	FES 100	EX INLET	15"	RCP	258'	III	0.87%	66.25	64.00

TYPICAL MAINTENANCE ITEMS AND FREQUENCY FOR INFILTRATION PRACTICES

Maintenance Activity	Schedule
• Replace topsoil and top surface filter fabric (when clogged). • Mow vegetated filter strips as necessary and remove the clippings.	As needed
• Ensure that the contributing drainage area, inlets, and facility surface are clear of debris. • Ensure that the contributing drainage area is stabilized. Perform spot-seeding if where needed. • Remove sediment and oil/grease from inlets, pretreatment devices, flow diversion structures, and overflow structures. • Repair undercut and eroded areas at inflow and outflow structures.	Quarterly
• Inspect pretreatment devices and diversion structures for sediment build-up and structural damage. • Remove trees that start to grow in the vicinity of the infiltration facility that may drop leaf litter, fruits and other vegetative materials that could clog the infiltration device.	Semi-annual inspection
• Clean out accumulated sediments from the pretreatment cell.	Annually

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**DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE**

NO.	DATE	COMMENTS
1	02/13/2026	ADDRESS DNREC COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn By: CLB
Proj No.: 0586B065.B01

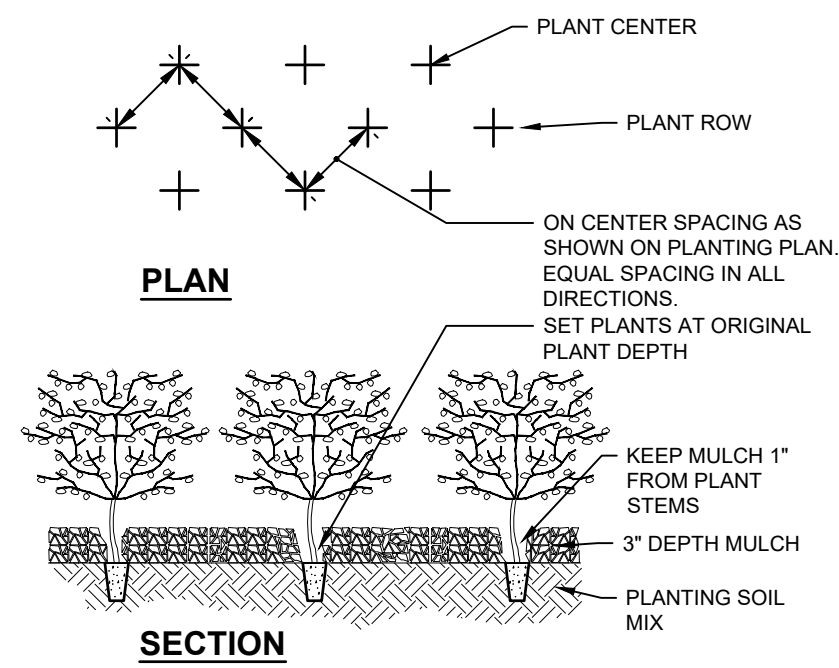
SSM POST CONSTRUCTION PLAN

C-409

GENERAL LANDSCAPE NOTES

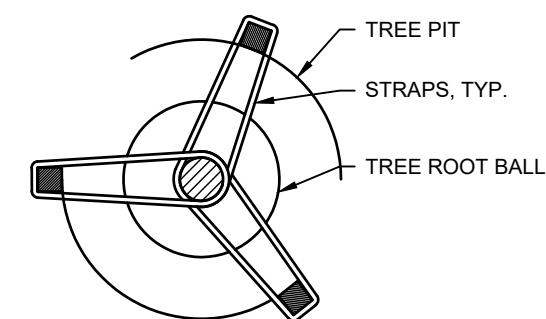
1. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER INSTALLATION IS COMPLETE AND FINAL ACCEPTANCE OF SITE WORK HAS BEEN GIVEN. AT THE END OF ONE YEAR ALL PLANT MATERIAL WHICH IS DEAD OR DYING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AS ORIGINALLY SPECIFIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND/OR LOCATION OF PLANT MATERIALS. CONTRACTOR TO VERIFY "AS BUILT" LOCATION OF ALL UTILITIES.
4. NO SUBSTITUTIONS SHALL BE MADE WITHOUT APPROVAL OF THE OWNER.
5. ALL AREAS NOT STABILIZED IN PAVING OR PLANT MATERIALS SHOULD BE SEEDED AND MULCHED. (SEE EROSION & SEDIMENT CONTROL PLAN.)
6. ALL DECIDUOUS SHADE TREES SHALL BRANCH A MINIMUM OF 6'-0" ABOVE GROUND LEVEL. TREES SHALL BE PLANTED AND STAKED IN ACCORDANCE WITH THE STAKING DETAIL SHOWN.
7. THE FULL EXTENT OF ALL PLANTING BEDS SHALL RECEIVE 4" OF TOPSOIL AND 3" OF BARK MULCH PER SPECIFICATIONS.
8. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THIS DRAWING AND AS SPECIFIED.
9. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS' ORIGINAL GRADE BEFORE DIGGING.
10. THE CONTRACTOR SHALL WATER ALL PLANTS THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING, AND THEN WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON.

PLANT SCHEDULE - BUFFERS							
SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	
DECIDUOUS TREE							
	✓	TD	TAXODIUM distichum	BALD CYPRESS	3" CAL., B&B	30	
						TOTAL	30
EVERGREEN TREES							
	✓	MV	MAGNOLIA virginiana	SWEETBAY MAGNOLIA	7'-8" HT., B&B	31	
						TOTAL	31
PERENNIALS							
		IV	IRIS versicolor	BLUE FLAG IRIS	#1 CONT., 18" O.C.	300	
		LM	LIRIOPE muscari 'BIG BLUE'	LIRIOPE	#1 CONT., 18" O.C.	600	
						TOTAL	900

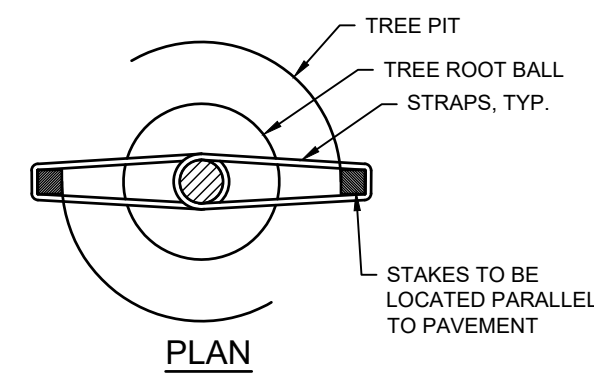


GROUND COVER PLANTING DETAIL

NOT TO SCALE

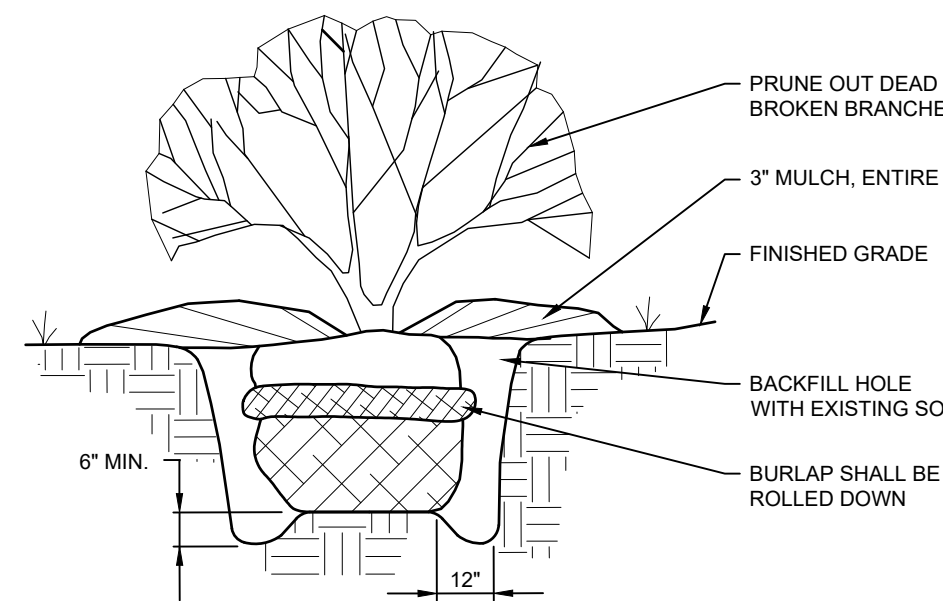


ALL DECIDUOUS SHADE TREES OVER 2" CALIPER AND ALL EVERGREEN TREES OVER 6" IN HEIGHT SHALL USE THREE STAKES FOR STABILIZATION.



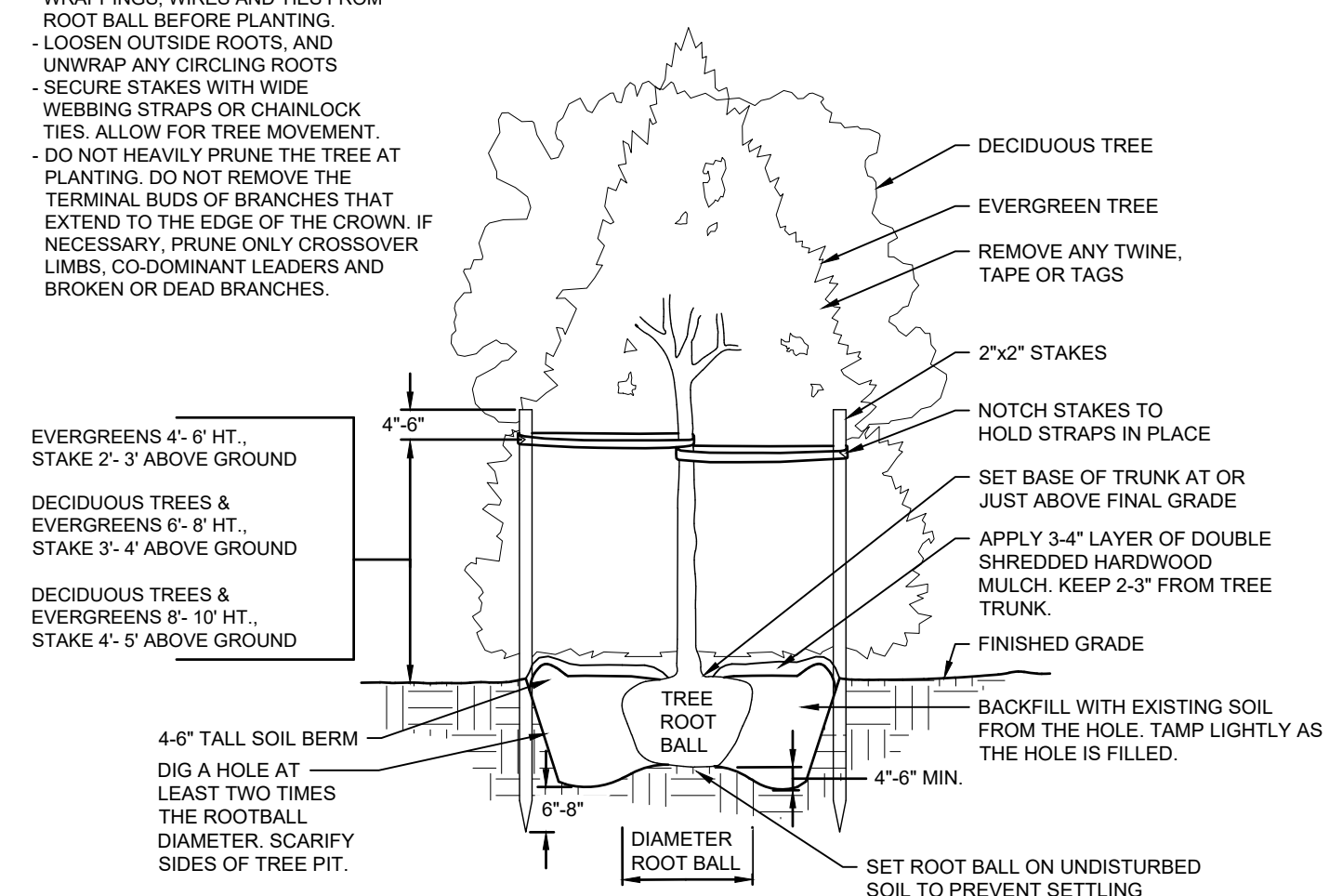
NOTE:

- WATER DEEPLY ONCE A WEEK DURING THE FIRST TWO SUMMERS. APPLY A MINIMUM OF 5-10 GALLONS OF WATER EACH WEEK.
- CAREFULLY REMOVE CONTAINERS, WRAPPINGS, WIRES AND TIES FROM ROOT BALL BEFORE PLANTING.
- LOOSEN OUTSIDE ROOTS, AND UNWRAP ANY CIRCLING ROOTS.
- SECURE STAKES WITH WIDE WEBBING STRAPS OR CHAINLOCK TIES. ALLOW FOR TREE MOVEMENT.
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. IF NECESSARY, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES.



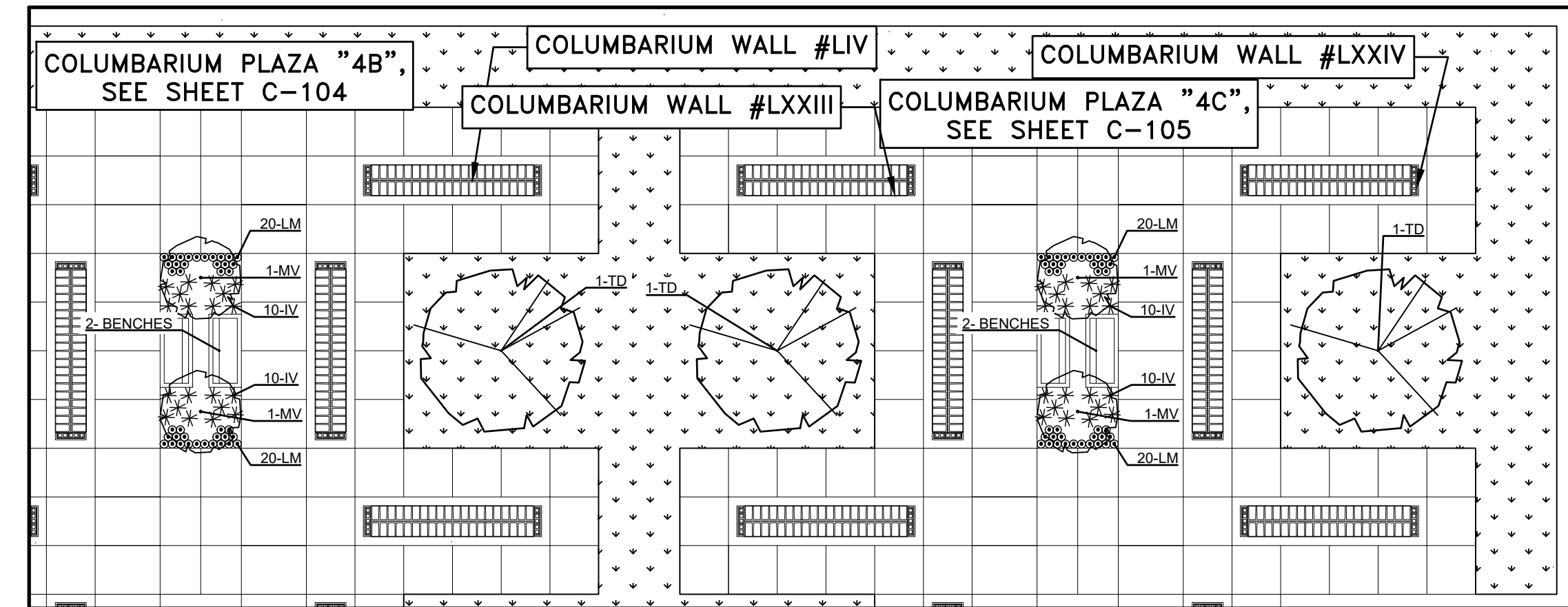
SHRUB PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



LANDSCAPE PLANTING DETAIL #1

NOT TO SCALE

LANDSCAPE ARCHITECT'S STATEMENT

I, TIMOTHY M. METZNER, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

SIGNATURE: _____ DATE: _____
 REGISTERED LANDSCAPE ARCHITECT: TIMOTHY M. METZNER, RLA
 DAVIS, BOWEN & FRIEDEL, INC.
 1 PARK AVENUE
 MILFORD, DELAWARE 19963

DELAWARE VETERANS CEMETERY
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1	10/17/2026	ADDRESS PER COMMENTS

Date: JANUARY 2026

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Dwn By: KMW

Proj No.: 0586B065.B01

LANDSCAPE
 PLAN DETAILS

Dwg No.:

L-102