

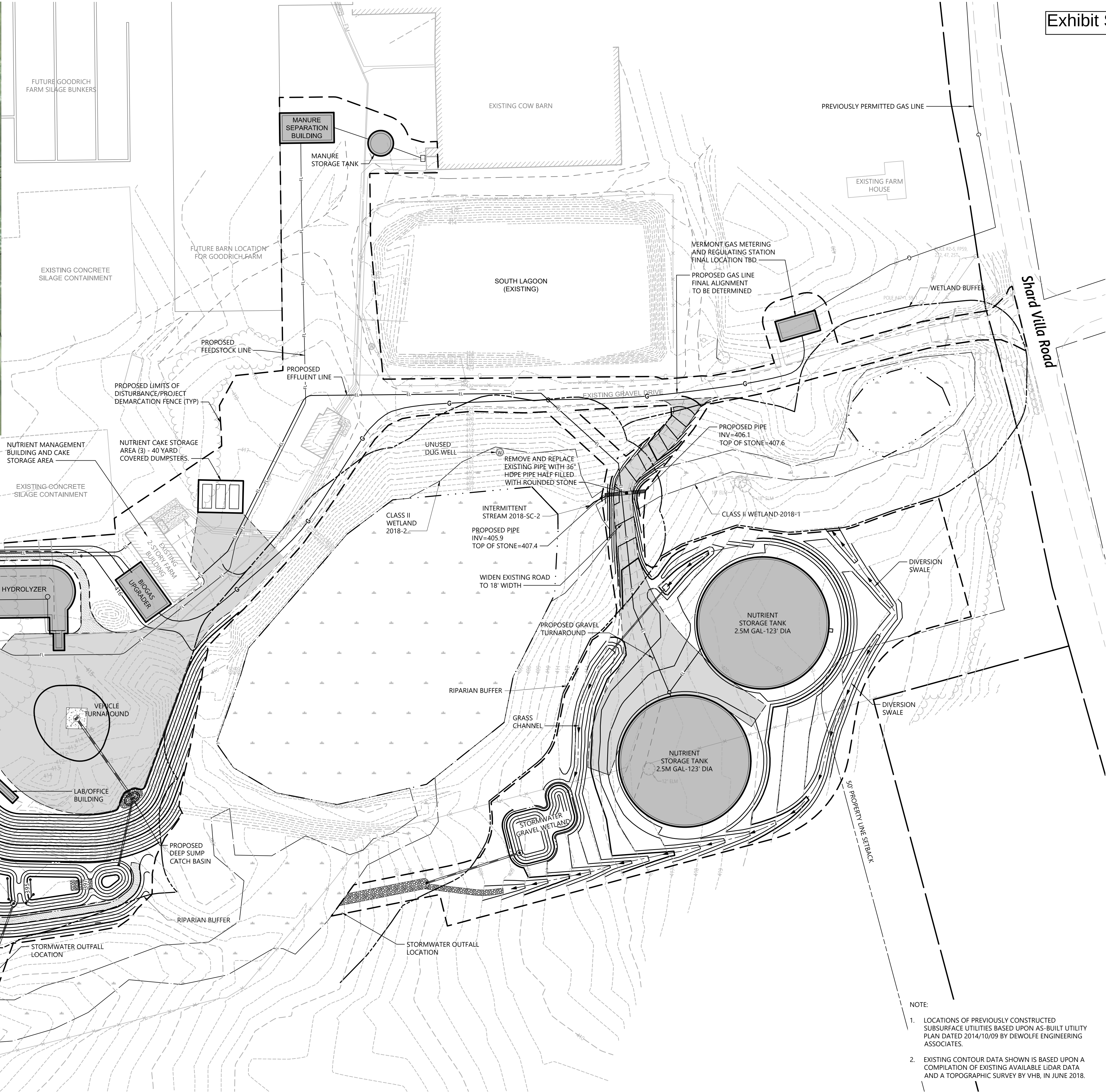
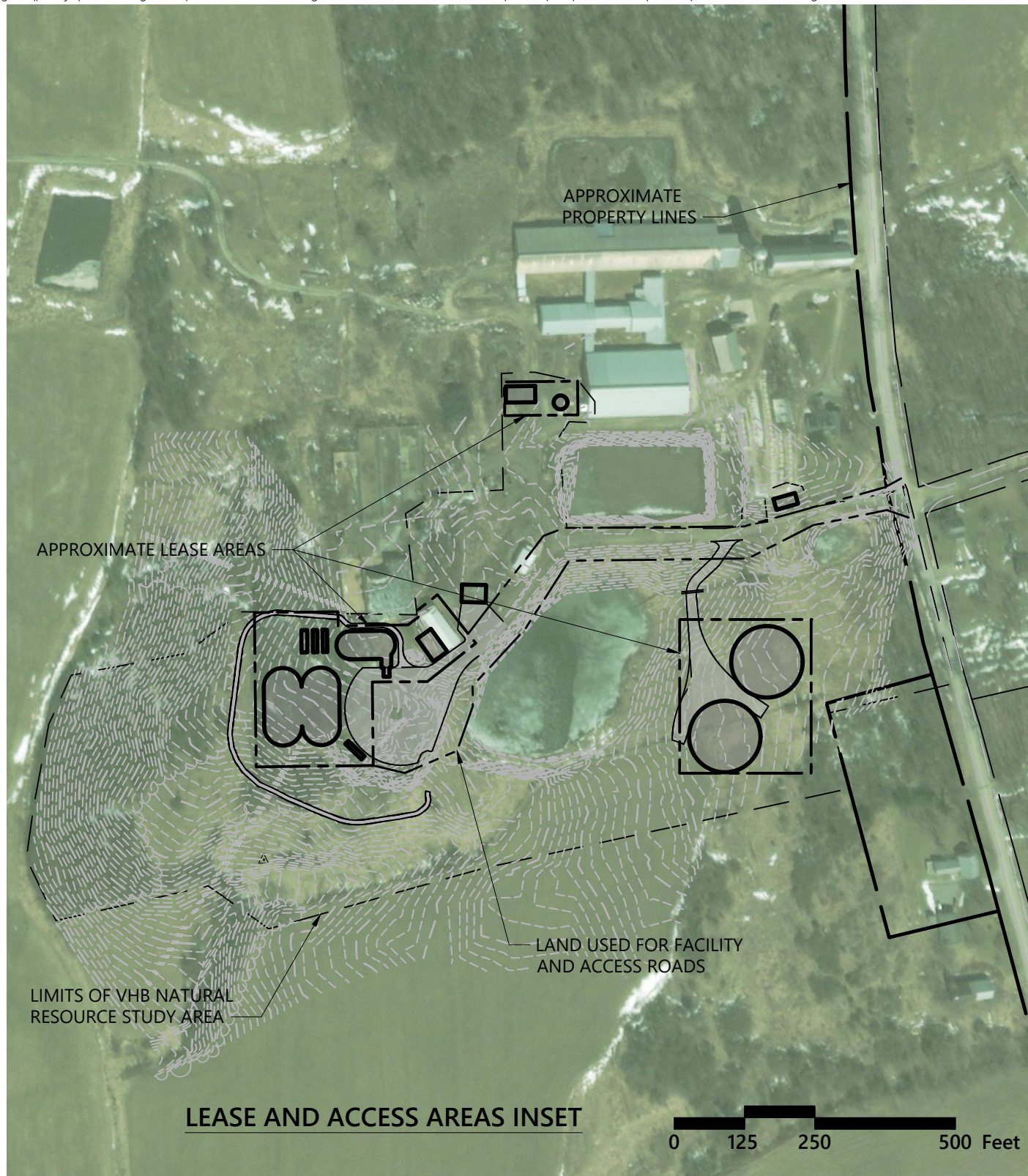


Exhibit SAD1-3(Rev.)



40 IDX Dr
Building 100 Suite 200
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802.497.6100

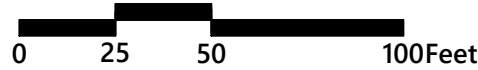
LEGEND

	EFFLUENT LINE
	FEEDSTOCK LINE
	GAS LINE
	MINOR CONTOUR
	MAJOR CONTOUR
	APPROXIMATE PROPERTY LINE
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPARIAN BUFFER
	STREAM
	EDGE OF GRAVEL
	LIMIT OF DISTURBANCE
	EXISTING TREELINE



Goodrich Farm /
Salisbury AD1

615 Shard Villa Road
Salisbury, Vermont



No.	Revision	Date	Appr'd.

Designed by	TAS	Checked by	PBS
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Issued for	Revised 248 Submittal	Date	Dec. 12, 2018
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Not Approved for Construction

Drawing Title
**Final Project
Design Site Plan**

Drawing Number

C-1.01

Sheet of

Project Number
58073.00

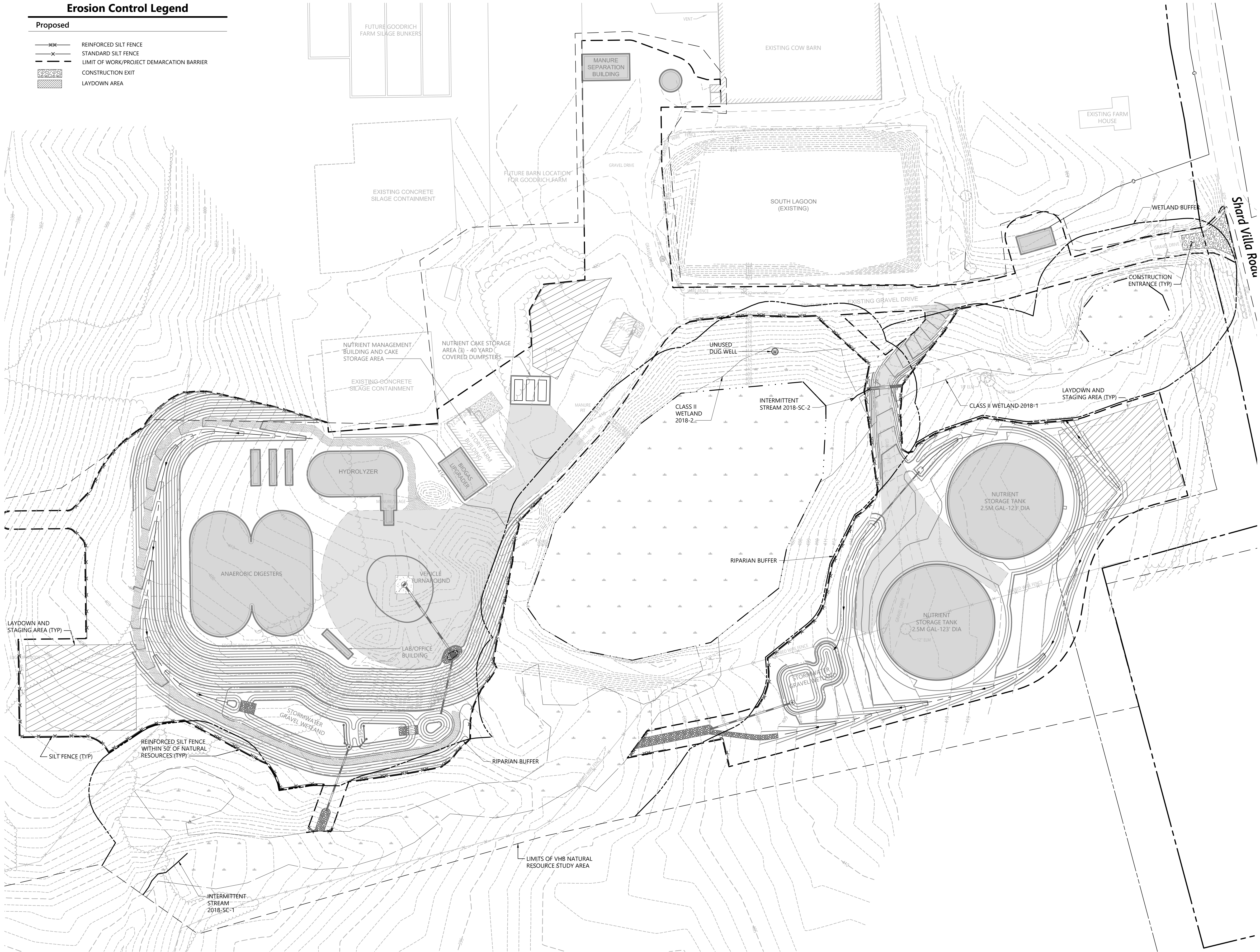
NOTE:

1. LOCATIONS OF PREVIOUSLY CONSTRUCTED SUBSURFACE UTILITIES BASED UPON AS-BUILT UTILITY PLAN DATED 2014/10/09 BY DEWOLFE ENGINEERING ASSOCIATES.
2. EXISTING CONTOUR DATA SHOWN IS BASED UPON A COMPILATION OF EXISTING AVAILABLE LIDAR DATA AND A TOPOGRAPHIC SURVEY BY VHB, IN JUNE 2018.

Erosion Control Legend

Proposed

- REINFORCED SILT FENCE
- STANDARD SILT FENCE
- LIMIT OF WORK/PROJECT DEMARCATION BARRIER
- CONSTRUCTION EXIT
- LAYDOWN AREA





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Revised 248 Submittal

Dec. 12, 2018

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Drawing Title

Erosion and
Sediment Control Plan

Drawing Number

C5.02

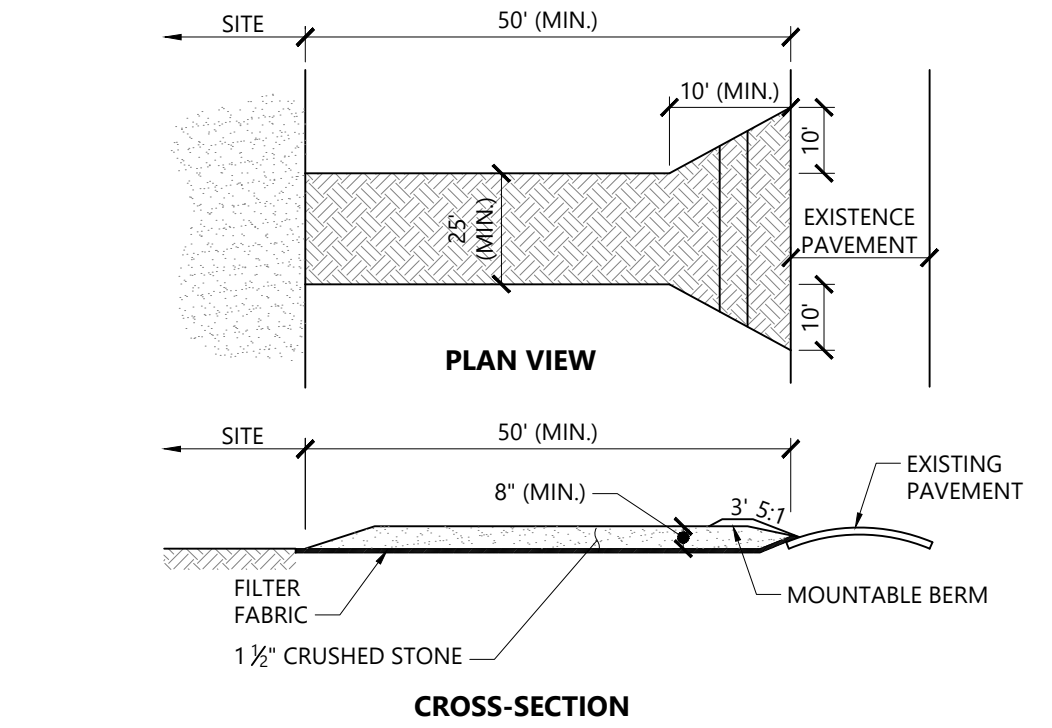
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Project Number

58073.00

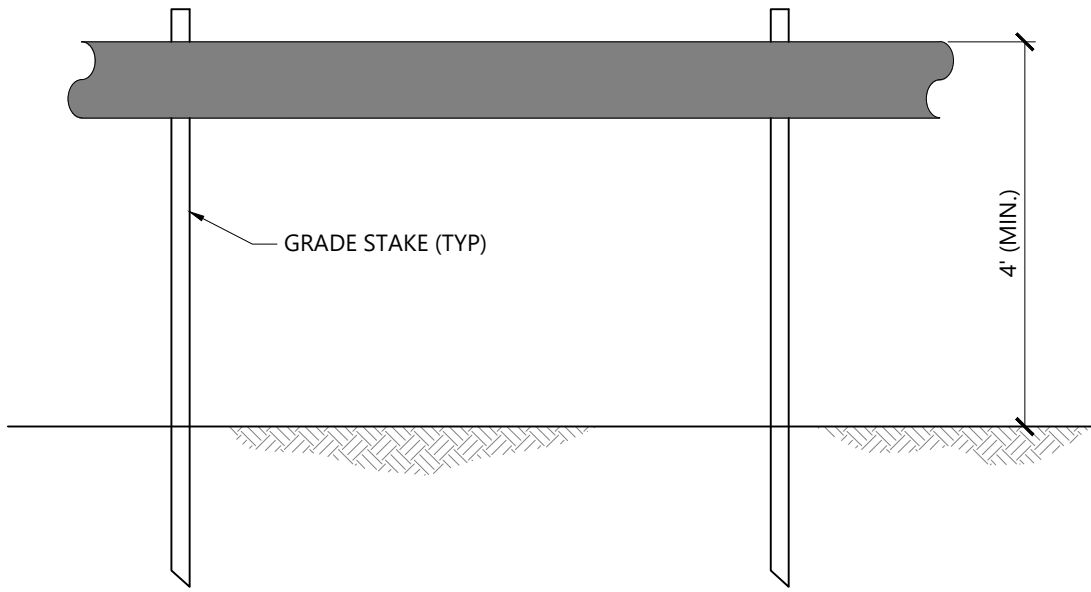


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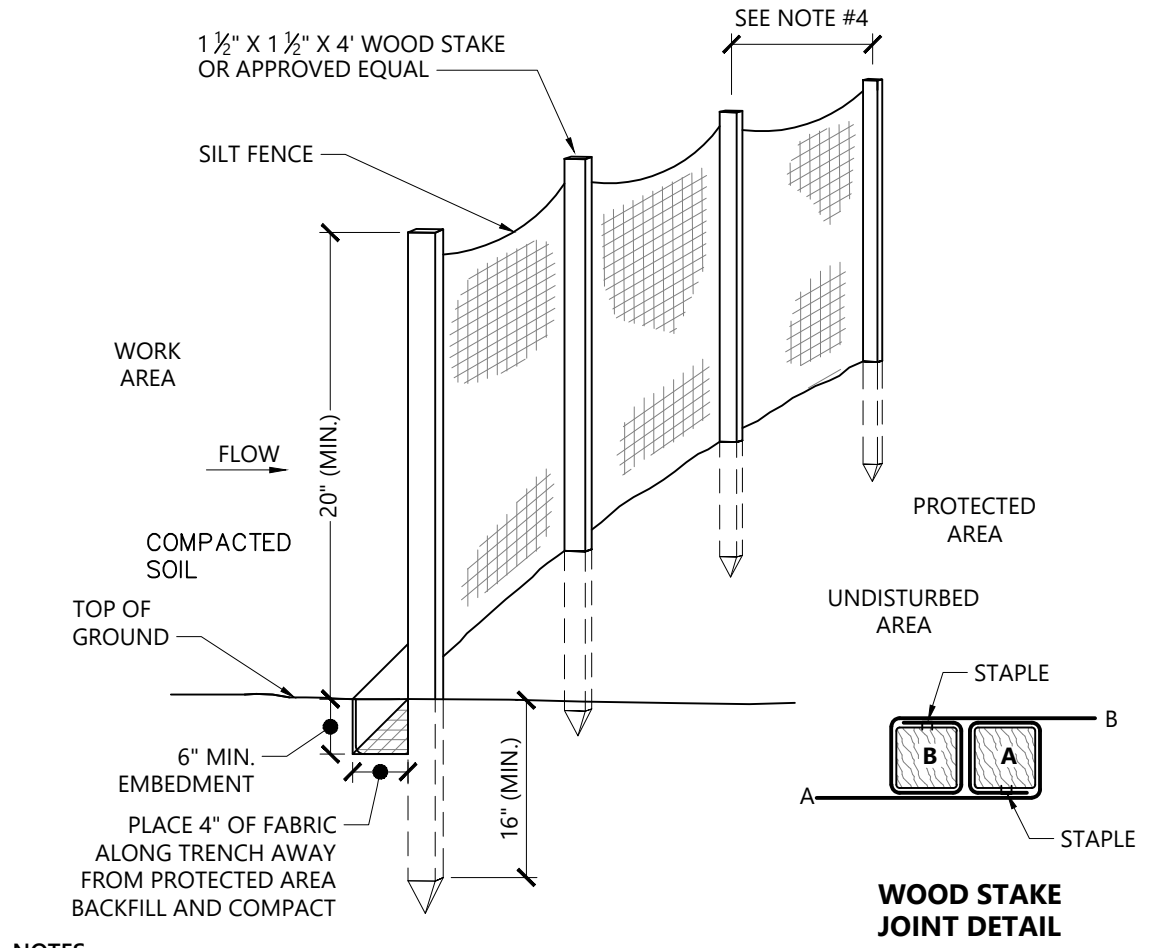
- NOTES**
1. AGGREGATE SIZE: USE A MATRIX OF 1 TO 4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH: NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES)
 3. THICKNESS: NOT LESS THAN EIGHT (8) INCHES
 4. WIDTH: TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT MINIMUM IF THERE IS ONLY ONE ACCESS TO THE SITE.
 5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
 6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EXITS SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

Stabilized Construction Exit		1/16
N.T.S.	Source: VHB	LD_682-VT



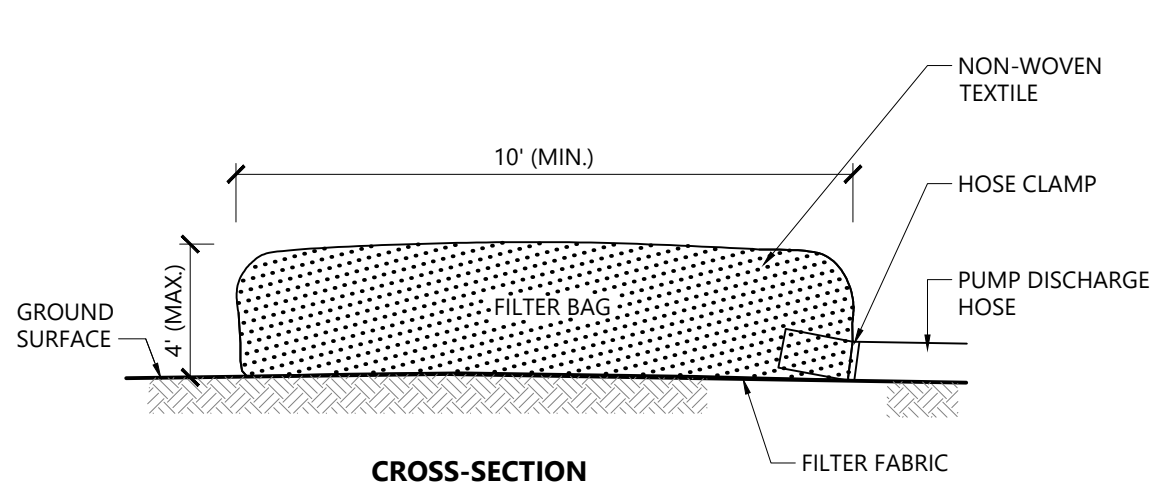
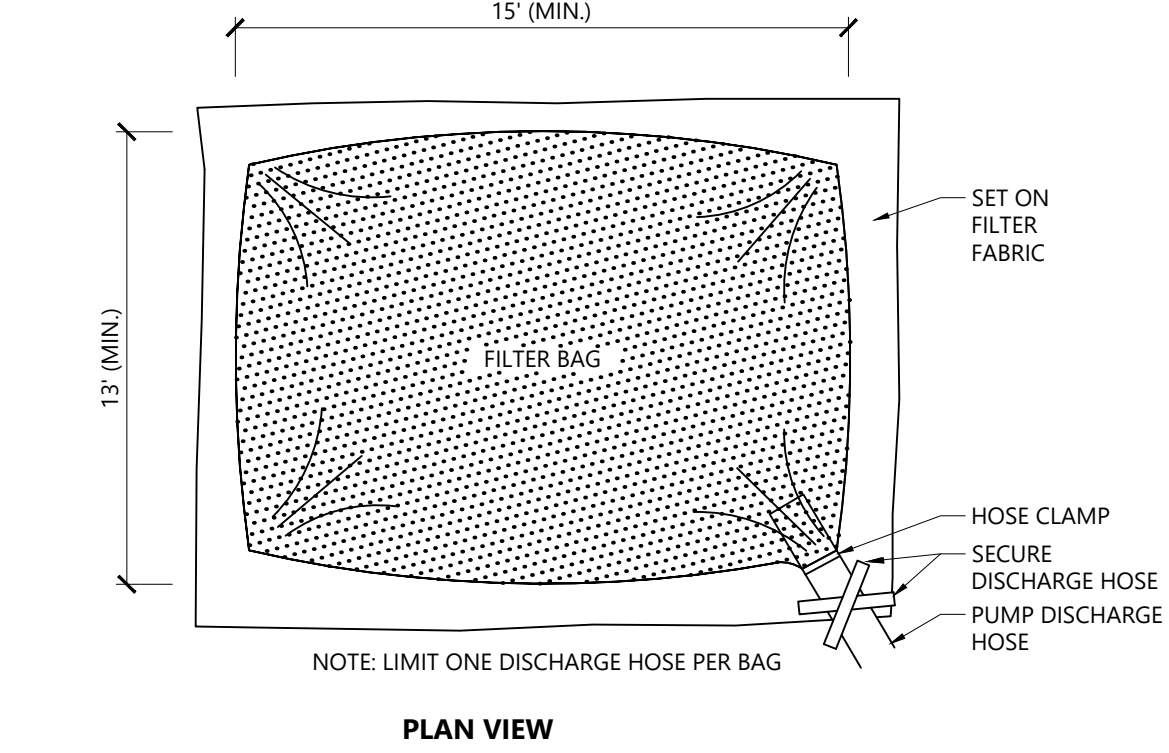
- NOTES**
1. BARRIER MESH TAPE OR ROPE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA TO DEMARCAT THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
 2. USE 3" ORANGE BARRIER MESH TAPE OR 1/2" YELLOW POLYPROPYLENE ROPE.
 3. WITHIN 50' OF WATER RESOURCE AREAS, USE 2-3 ROWS OF TAPE OR ROPE. BEYOND 50' OF WATER RESOURCE AREAS USE 1 ROW OF TAPE OR ROPE.
 4. TAPE OR ROPE MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
 5. PROJECT DEMARCATION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCATION MAY CROSS RESOURCES AREAS WITH EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
 6. PROJECT DEMARCATION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

Project Demarcation - Barrier Mesh Tape or Rope		08/16
N.T.S.	Source: VHB	LD_VT



- NOTES**
1. WOVEN WIRE FENCE REINFORCEMENT IS REQUIRED WITHIN 50 FT UPSLOPE OF RECEIVING WATERS.
 2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MESH OPENING SHALL BE USED.
 3. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
 4. POST SPACING FOR WIRE BACKED FENCE SHALL BE 10 FT. MAX. FOR FILTER CLOTH FENCE WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4 FT. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6 FT.
 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
 6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
 7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.
 8. SILT FENCE SHALL NOT BE USED TO DEMARCAT LIMITS OF DISTURBANCE.
 9. AREA DRAINING TO SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 LF

Silt Fence/ Reinforced Silt Fence Barrier		08/16
N.T.S.	Source: VHB	LD_650-VT



- NOTES**
1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 2. CONTRACTOR MAY PROPOSE ALTERNATE DEWATERING SYSTEM FOR REVIEW AND APPROVAL

Dewatering Filter Bag		1/16
N.T.S.	Source: VHB	LD_691

MULCH MATERIAL AND APPLICATION				
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ. FT.	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAWINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 – 900 LBS	10 – 20 TONS	2" – 3"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS	N/A
GRAVEL, CRUSHED STONE	WASHED; SIZE 2B OR 3A – 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED; FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 – 100 LBS, 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS 6" SORREN (100%)	*Slopes 3(Hz.):1(Vert.) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slopes between 3(Hz.):1(Vert.) and 2(Hz.):1(Vert.) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slopes steeper than 2(Hz.):1(Vert.) applicability to specific site and mulch depth to be reviewed and approved prior to use by OSPC or EPSC Specialist		

1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES, (SEEDS OR SEEDLINGS)
3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.
4. OTHER THAN EROSION CONTROL MIX, MULCH IS NOT TO BE INSTALLED ON SLOPES > 3:1.

Mulching Notes and Specifications		08/16
N.T.S.	Source: VHB	LD_VT

TEMPORARY SEEDING

1. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
2. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
3. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
4. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
5. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.

PERMANENT SEEDING

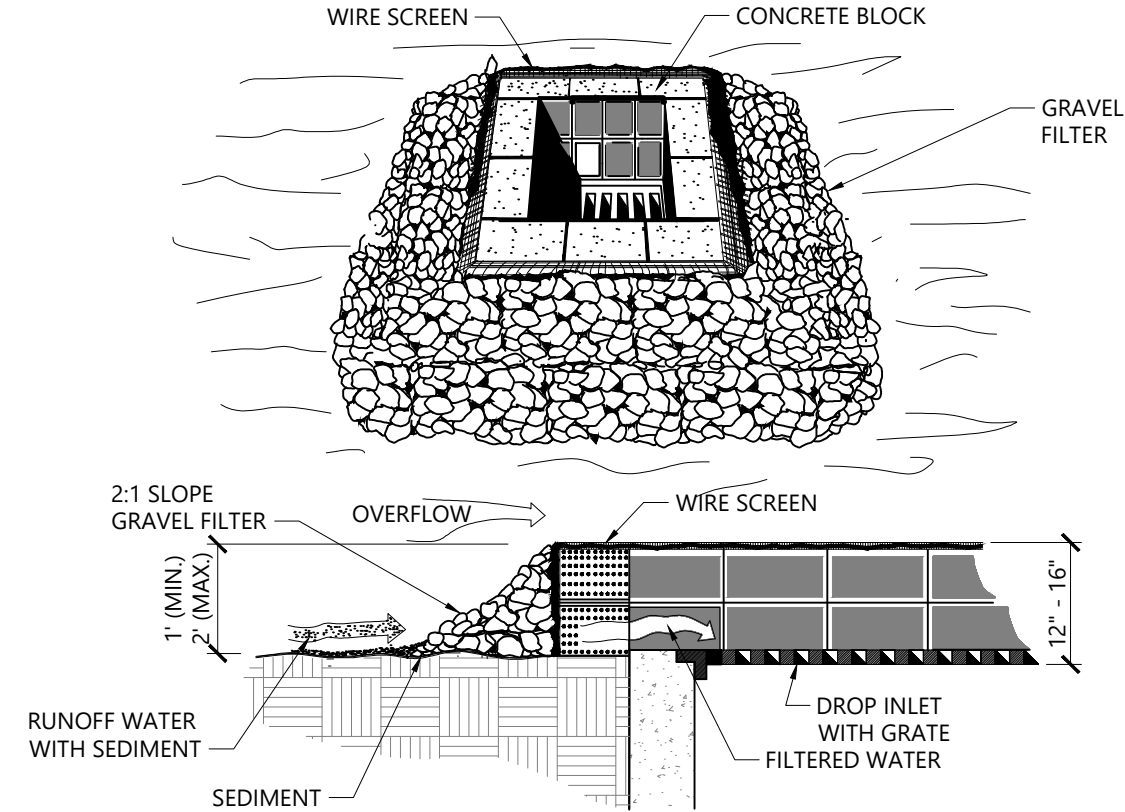
1. SEE SEEDING SPECIFICATIONS FOR RECOMMENDED SEED MIXES. USE RIPARIAN AND WETLAND SEEDING MIX WITHIN 50 FEET OF STREAM CROSSINGS AND IN DISTURBED WETLAND AREAS. USE UPLAND NATURAL COMMUNITY MIX WITHIN AREAS IDENTIFIED AS SIGNIFICANT NATURAL COMMUNITIES. USE PERMANENT SEEDING MIX FOR ALL OTHER DISTURBED UPLAND AREAS. SEE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR ADDITIONAL SEED MIXTURES.
2. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE; CHISELING OR DISKING MAY BE NEEDED IF SOIL IS COMPACTED.
3. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
4. PERMANENT SEEDING TO OCCUR PRIOR TO SEPTEMBER 15TH UNLESS WEATHER PERMITS SEEDING BEYOND SEPTEMBER 15TH.
5. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
6. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
7. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.
8. IRRIGATION MAY BE NEEDED TO FACILITATE GRASS GROWTH AND ESTABLISH ADEQUATE GRASS COVER.

Seeding Notes and Specifications		08/16
N.T.S.	Source: VHB	LD_VT

TEMPORARY SEEDING MIX		
TYPE	SEASON	RATE (LBS/ACRE)
RYEGRASS (ANNUAL OR PERENNIAL)	APRIL 15 – SEPTEMBER 15	20
*"AROSTOOK" WINTER RYE	SEPTEMBER 15 – APRIL 15	90

PERMANENT SEEDING MIX*		
TYPE	SEASON	RATE (LBS/ACRE)
BIRDSFOOT TREFOL(1)**	APRIL 15 – SEPTEMBER 15	5
COMMON WHITE CLOVER (1)**	APRIL 15 – SEPTEMBER 15	8
TALL FESCUE (2)	APRIL 15 – SEPTEMBER 15	10
REDTOP (3)	APRIL 15 – SEPTEMBER 15	2
RYEGRASS (PERENNIAL) (3)	APRIL 15 – SEPTEMBER 15	5

*PERMANENT SEEDING MIX IS A COMBINATION OF BIRDSFOOT TREFOL OR COMMON WHITE CLOVER PLUS TALL FESCUE PLUS REDTOP OR RYEGRASS (PERENNIAL). I.E. PERMANENT SEEDING MIX = (1) + (2) + (3). (SEE PAGE 4.27 OF THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.) ** ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING



- NOTES**
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW THE REST OF THE INLET AND BLOCKS SHALL BE PLACED AGAINST THE INLET FOR SUPPORT.
 2. CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 16 INCHES HIGH.
 3. HARDWARE CLOTH OR 1/2" WIRE MESH SHOULD BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
 4. USE CLEAN STONE OR GRAVEL 1/2" TO 3/4" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2H:1V SLOPE OR FLATTER.
 5. A 1 FOOT THICK LAYER OF FILTER STONE WILL BE PLACED AGAINST THE 3" STONE.
 6. MAXIMUM DRAINAGE AREA PER SEDIMENT TRAP IS 1 ACRE.
 7. INSTALL MARSH MAT OR APPROVED EQUAL AT ALL CATCH BASIN GRATES.
 8. BLOCK AND STONE INLET PROTECTION REQUIRED AT ALL CATCH BASIN INLETS WHERE THE FINISHED GRADE IS WITHIN 6" OF THE RIM OF THE STRUCTURE OR FRAME.

Block and Gravel Drop Inlet Protection (Paved Areas)		1/16
N.T.S.	Source: VHB	LD_676-VT

Goodrich Farm /
Salisbury AD1

615 Shard Villa Road
Salisbury, Vermont

No.	Revision	Date	Apprd.

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Issued for	Revised 248 Submittal	Date	Dec. 12, 2018
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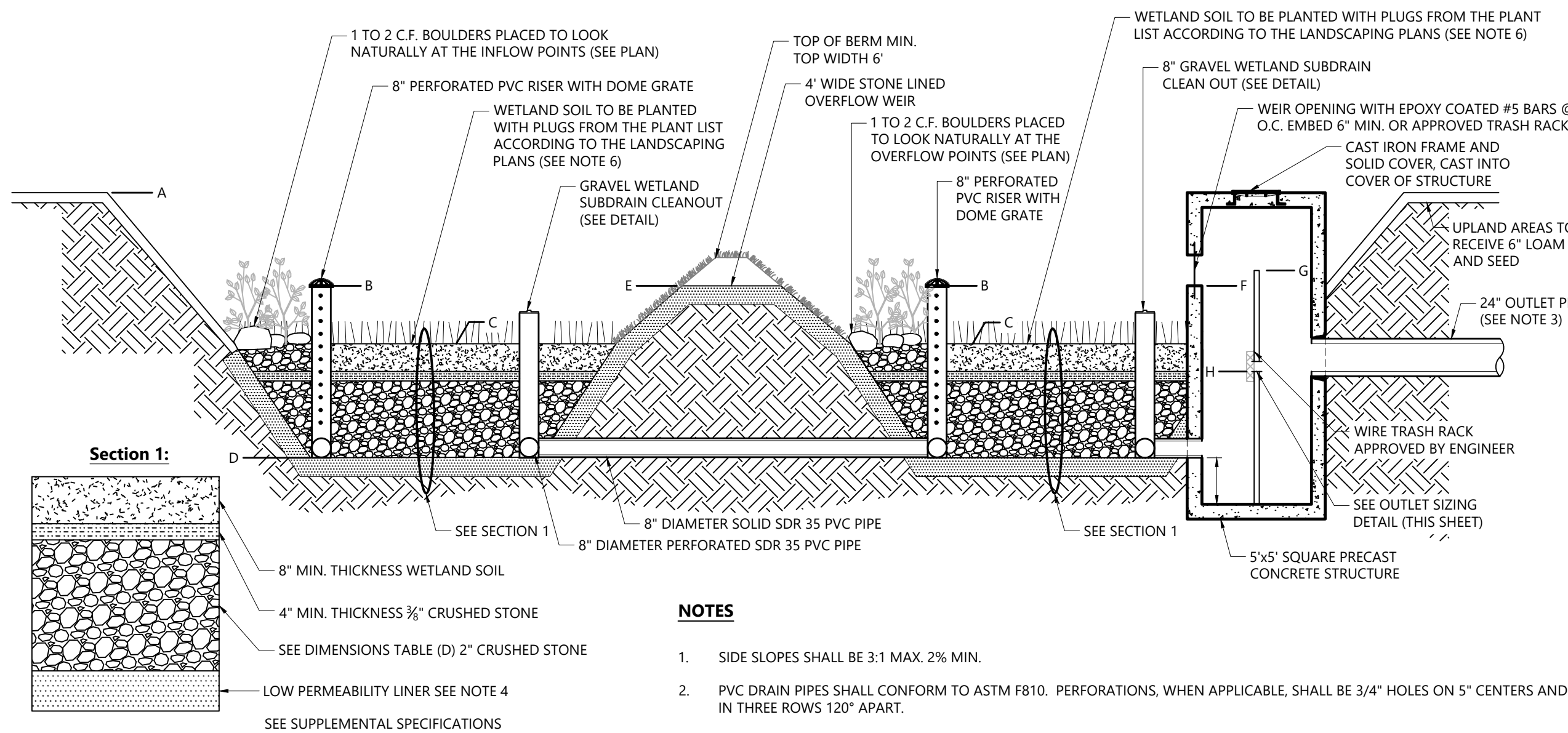
Erosion and
Sediment Control Details

Drawing Number

C5.03

Sheet of

Project Number
58073.00



DIMENSIONS TABLE								
DESIGNATION	A	B	C	D	E	F	G	H
GW1	#	#	#	#	#	#	#	#
GW2	#	#	#	#	#	#	#	#

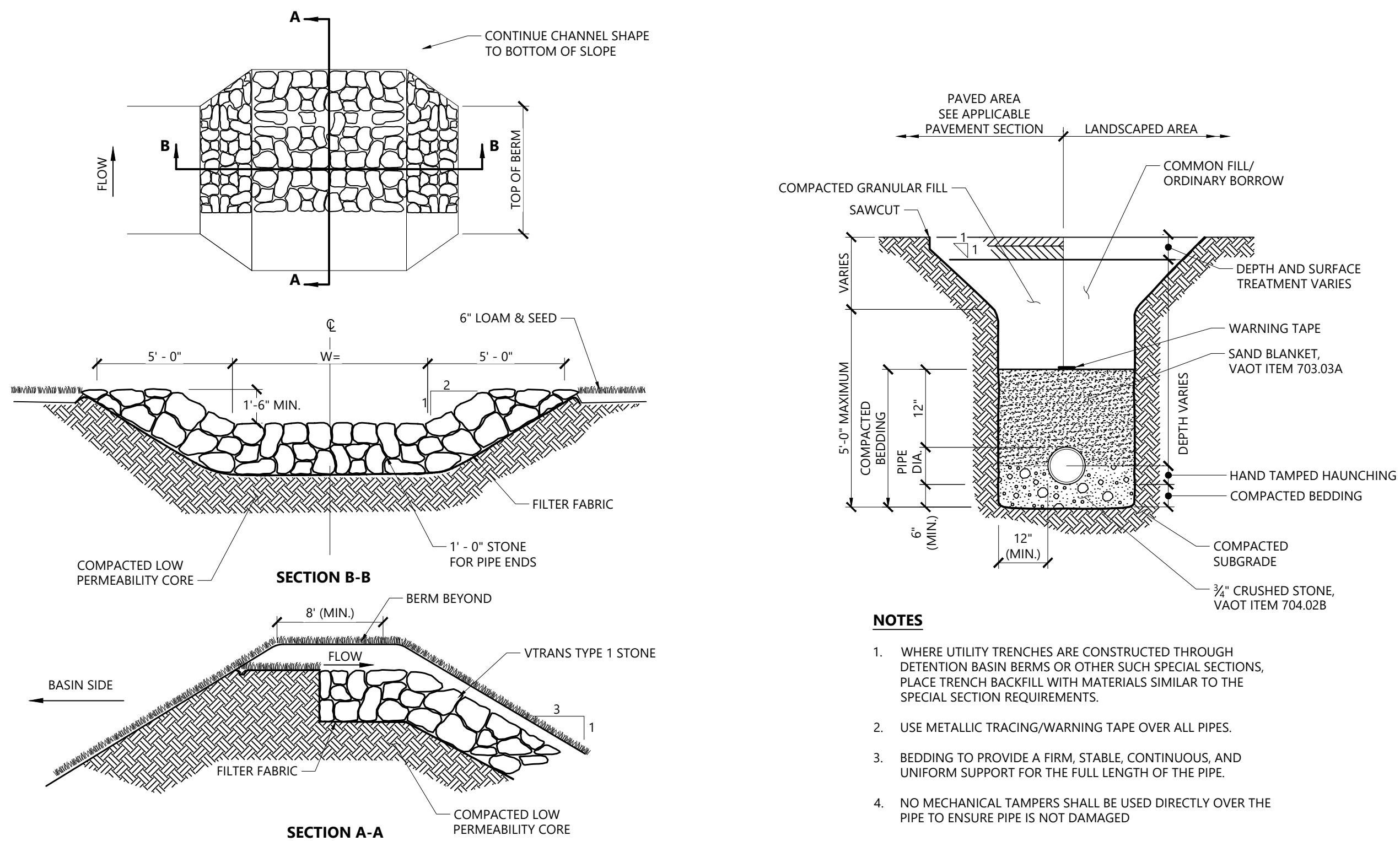
Gravel Wetland (Multiple Bays)

N.T.S.

Source: VHB

1/16

LD_160



Overflow Stone Spillway

N.T.S.

Source: VHB

REV

1/16

LD_161

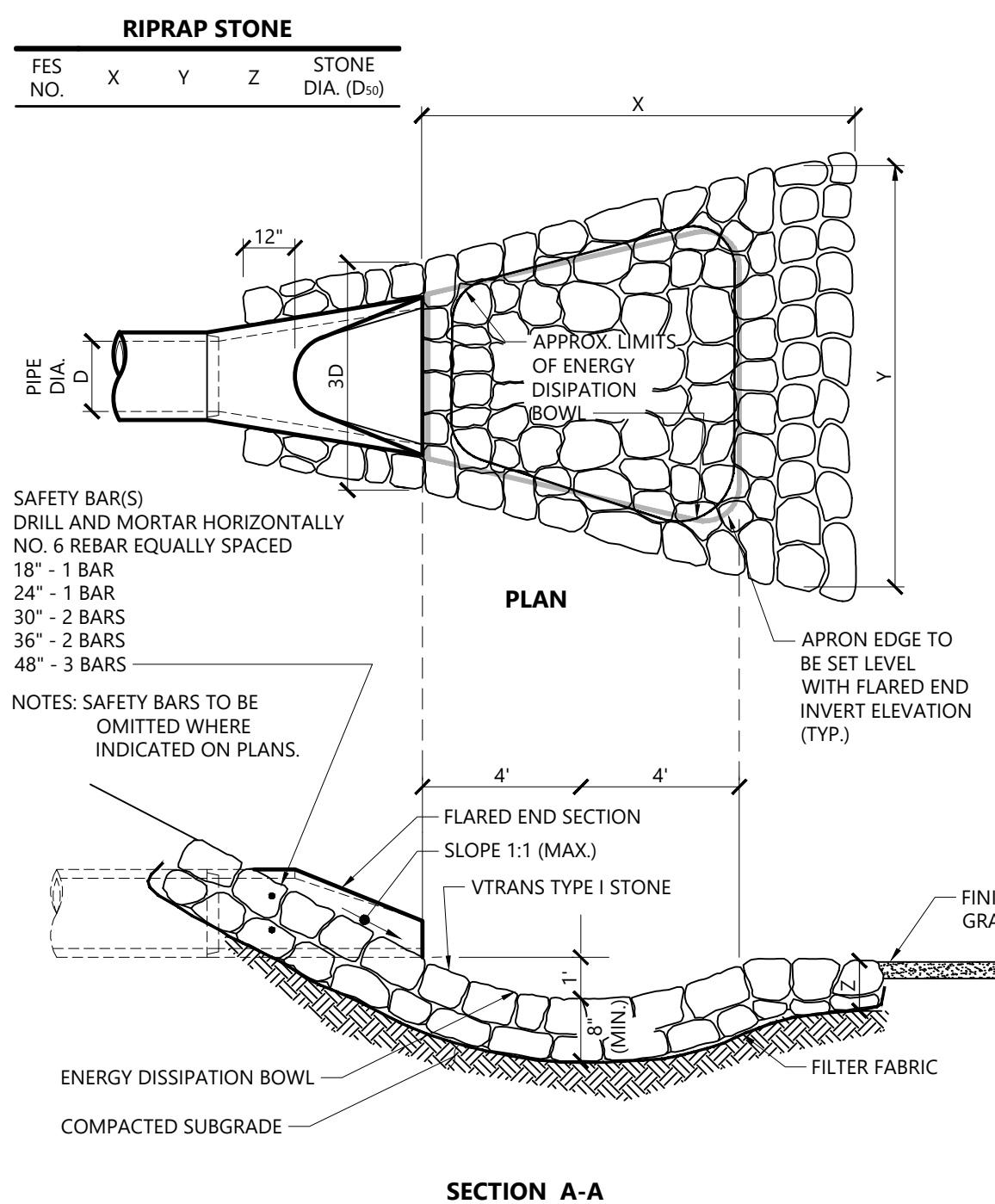
Typical Utility Trench Detail

N.T.S.

Source: VHB

REV

LD_



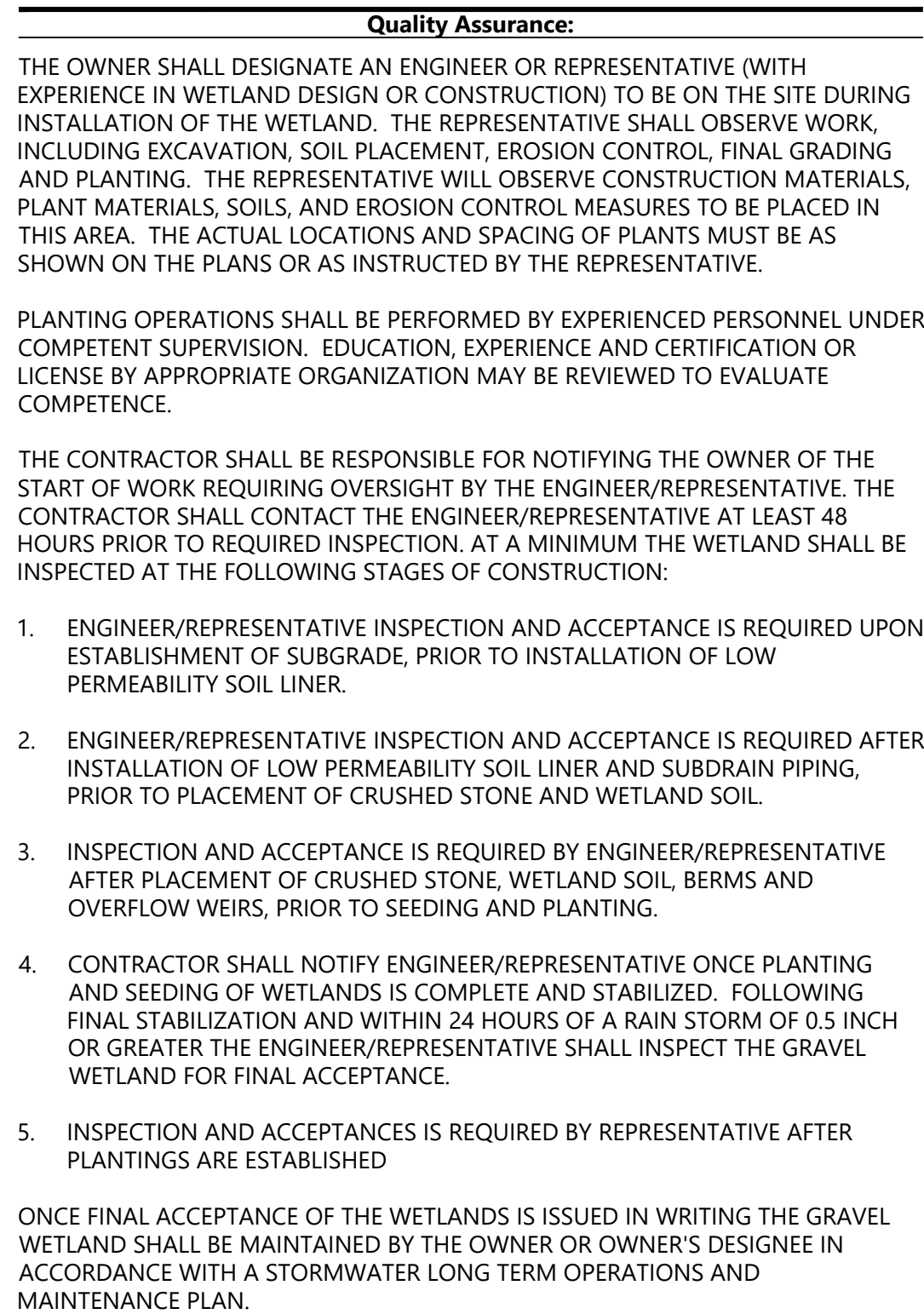
Flared End Section (FES) with Stone Protection

N.T.S.

Source: VHB

1/16

LD_134



Goodrich Farm / Salisbury AD1

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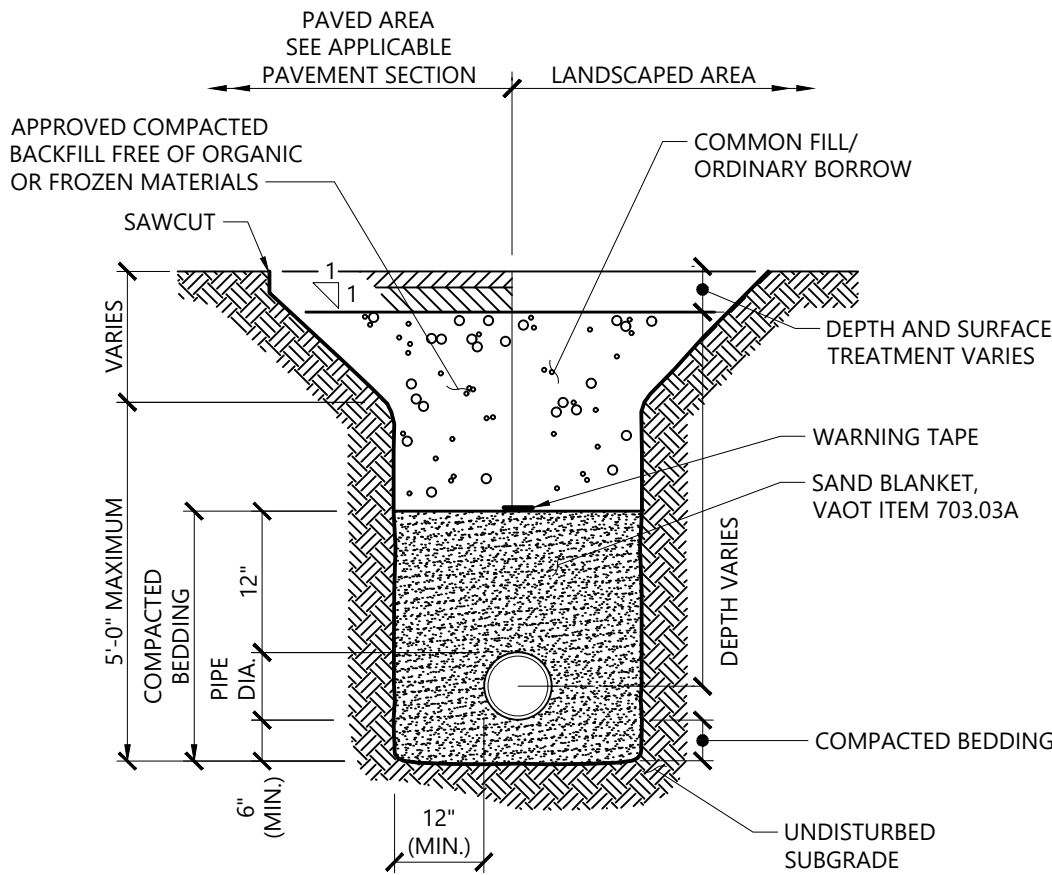
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Drawing Number

C-6.01

Sheet of

Project Number
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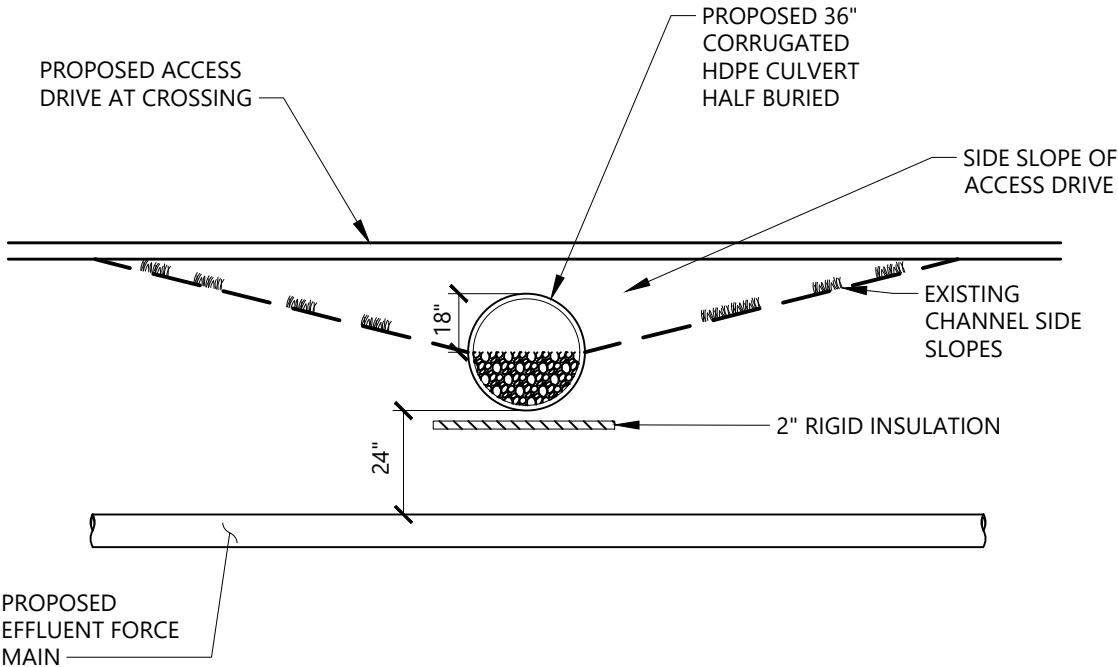


NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER THE PIPE TO ENSURE PIPE IS NOT DAMAGED

Force Main Trench

N.T.S. Source: VHB 11/18 LD



Force Main Crossing At Culvert

N.T.S. Source: VHB 11/18 LD



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Goodrich Farm / Salisbury AD1

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Drawing Title

Site Details

Drawing Number

C-6.02

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of

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58073.00



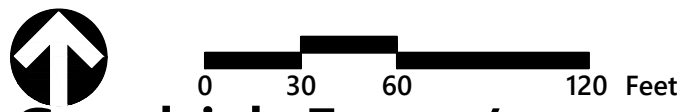
40 IDX Dr
Building 100 Suite 200
South Burlington, VT 05403
802.497.6100

LEGEND

- PROPERTY LINE
- AS-APPROVED PROJECT LAYOUT
- FINAL PROJECT LAYOUT

OCCUR ON BOTH LAYOUTS	OCCUR ON FINAL LAYOUT ONLY
1 DIGESTER(S)	10 NUTRIENT CAKE STORAGE AREA
2 UTILITY BUILDING	11 CHP BUILDING
3 OFFICE/LAB	12 HYDROLYZER
4 SEPARATOR BUILDING	13 NUTRIENT STORAGE TANK
5 MANURE TANK	14 TRUCK TURNAROUND
6 BIOGAS UPGRADER	15 BACK UP GENERATOR
7 VT GAS METERING STATION	
8 FLARE	OCCUR ON AS-APPROVED LAYOUT ONLY
9 NUTRIENT MANAGEMENT BUILDING	16 EXISTING PUMP HOUSE
	17 COMPOST PAD

- NOTES:
1. NOT ALL FACILITY ELEMENTS LISTED ABOVE ARE PRESENT ON BOTH THE CURRENT AND PREVIOUS FACILITY LAYOUT.
- * ASSUMED LOCATION



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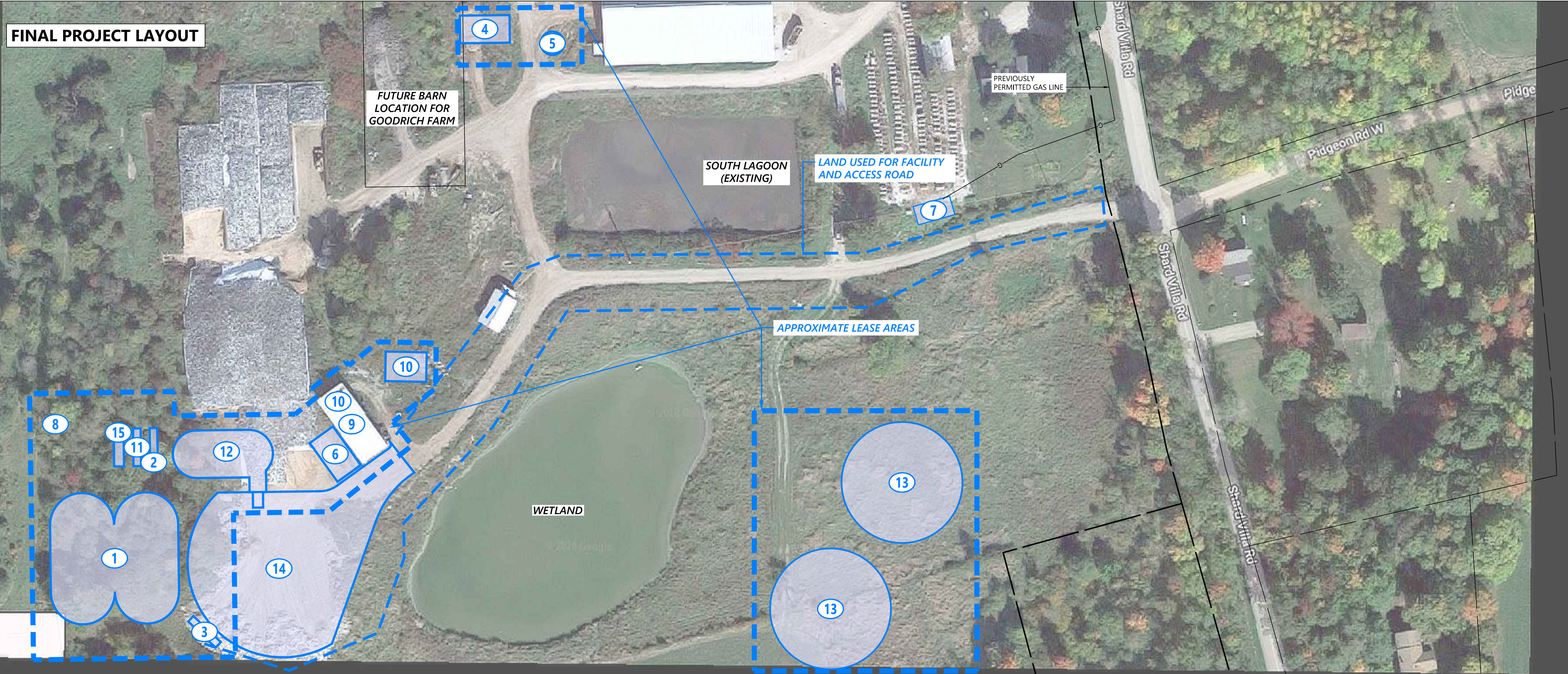
Project Layout
Comparison Plan

Drawing Number

Sheet of

Project Number
58073.00

FINAL PROJECT LAYOUT



AS-APPROVED PROJECT LAYOUT

