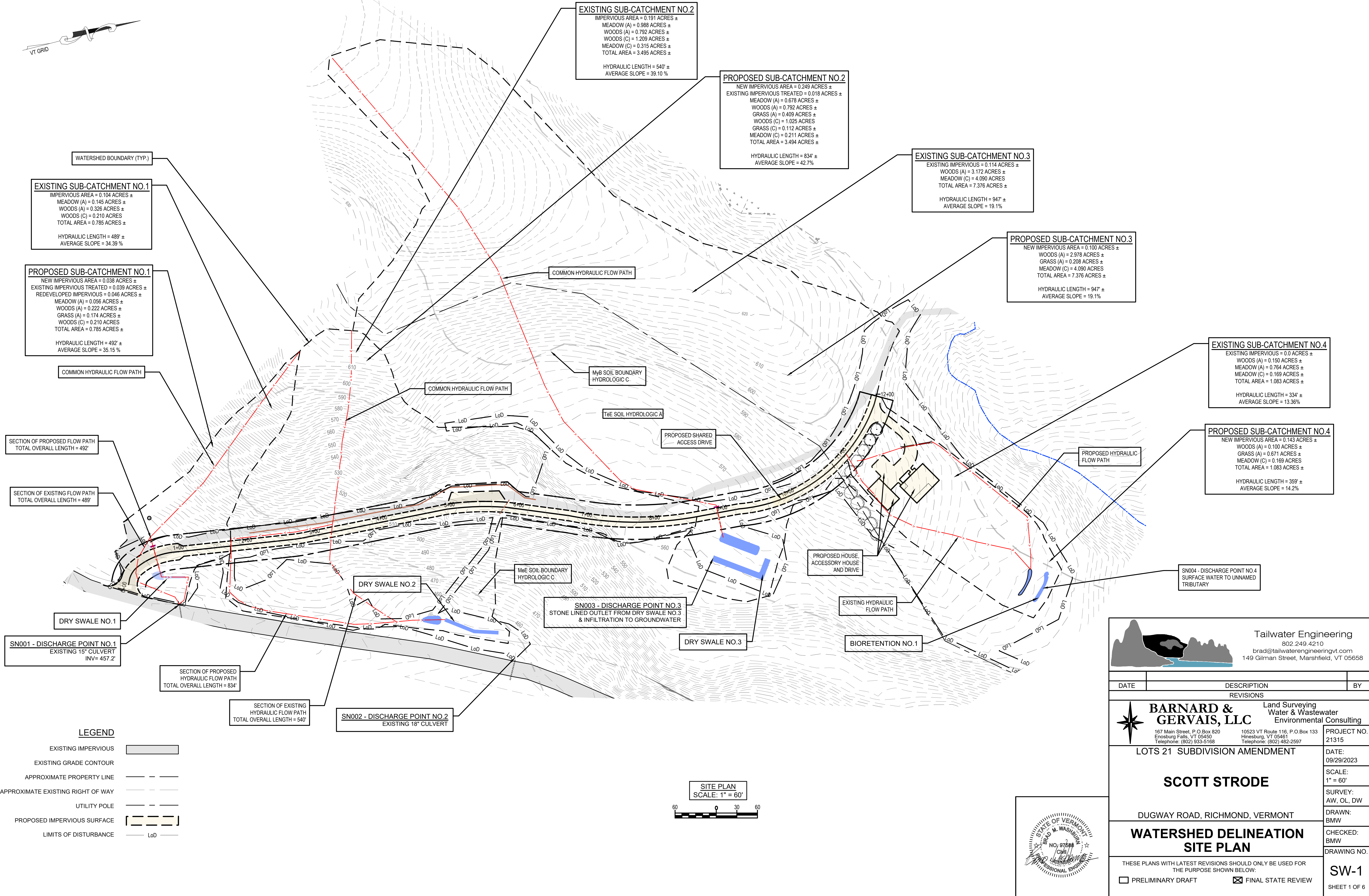
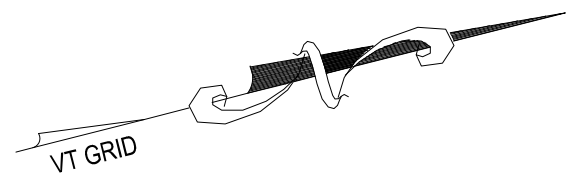




WATERSHED BOUNDARY (TYP.)

EXISTING SUB-CATCHMENT NO.1
IMPERVIOUS AREA = 0.104 ACRES ±
MEADOW (A) = 0.145 ACRES ±
WOODS (A) = 0.326 ACRES ±
WOODS (C) = 0.210 ACRES
TOTAL AREA = 0.785 ACRES ±

HYDRAULIC LENGTH = 489' ±
AVERAGE SLOPE = 34.39 %

PROPOSED SUB-CATCHMENT NO.1
NEW IMPERVIOUS AREA = 0.038 ACRES ±
EXISTING IMPERVIOUS TREATED = 0.039 ACRES ±
REDEVELOPED IMPERVIOUS = 0.046 ACRES ±
MEADOW (A) = 0.056 ACRES ±
WOODS (A) = 0.222 ACRES ±
GRASS (A) = 0.114 ACRES ±
WOODS (C) = 0.210 ACRES
TOTAL AREA = 0.785 ACRES ±

HYDRAULIC LENGTH = 492' ±
AVERAGE SLOPE = 35.15 %

SECTION OF PROPOSED FLOW PATH
TOTAL OVERALL LENGTH = 492'

SECTION OF EXISTING FLOW PATH
TOTAL OVERALL LENGTH = 489'

DRY SWALE NO.1

SN001 - DISCHARGE POINT NO.1
EXISTING 15" CULVERT
INV= 457.2'

SECTION OF PROPOSED
HYDRAULIC FLOW PATH
TOTAL OVERALL LENGTH = 834'

SECTION OF EXISTING
HYDRAULIC FLOW PATH
TOTAL OVERALL LENGTH = 540'

SN002 - DISCHARGE POINT NO.2
EXISTING 18" CULVERT

DRY SWALE NO.2

SN003 - DISCHARGE POINT NO.3
STONE LINED OUTLET FROM DRY SWALE NO.3
& INFILTRATION TO GROUNDWATER

DRY SWALE NO.3

EXISTING SUB-CATCHMENT NO.2
IMPERVIOUS AREA = 0.191 ACRES ±
MEADOW (A) = 0.988 ACRES ±
WOODS (A) = 0.792 ACRES ±
WOODS (C) = 1.209 ACRES ±
MEADOW (C) = 0.315 ACRES ±
TOTAL AREA = 3.495 ACRES ±

HYDRAULIC LENGTH = 540' ±
AVERAGE SLOPE = 39.10 %

PROPOSED SUB-CATCHMENT NO.2
NEW IMPERVIOUS AREA = 0.249 ACRES ±
EXISTING IMPERVIOUS TREATED = 0.018 ACRES ±
MEADOW (A) = 0.678 ACRES ±
WOODS (A) = 0.792 ACRES ±
GRASS (A) = 0.409 ACRES ±
WOODS (C) = 1.025 ACRES
GRASS (C) = 0.112 ACRES ±
MEADOW (C) = 0.211 ACRES ±
TOTAL AREA = 3.494 ACRES ±

HYDRAULIC LENGTH = 834' ±
AVERAGE SLOPE = 42.7%

EXISTING SUB-CATCHMENT NO.3
EXISTING IMPERVIOUS = 0.114 ACRES ±
WOODS (A) = 3.172 ACRES ±
MEADOW (C) = 4.090 ACRES
TOTAL AREA = 7.376 ACRES ±

HYDRAULIC LENGTH = 947' ±
AVERAGE SLOPE = 19.1%

PROPOSED SUB-CATCHMENT NO.3
NEW IMPERVIOUS AREA = 0.100 ACRES ±
WOODS (A) = 2.978 ACRES ±
GRASS (A) = 0.208 ACRES ±
MEADOW (C) = 4.090 ACRES
TOTAL AREA = 7.376 ACRES ±

HYDRAULIC LENGTH = 947' ±
AVERAGE SLOPE = 19.1%

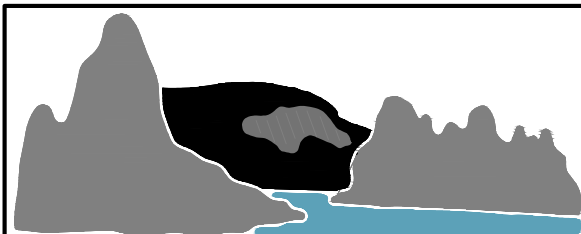
EXISTING SUB-CATCHMENT NO.4
EXISTING IMPERVIOUS = 0.0 ACRES ±
WOODS (A) = 0.150 ACRES ±
MEADOW (A) = 0.764 ACRES ±
MEADOW (C) = 0.169 ACRES ±
TOTAL AREA = 1.083 ACRES ±

HYDRAULIC LENGTH = 334' ±
AVERAGE SLOPE = 13.36%

PROPOSED SUB-CATCHMENT NO.4
NEW IMPERVIOUS AREA = 0.143 ACRES ±
WOODS (A) = 0.100 ACRES ±
GRASS (A) = 0.671 ACRES ±
MEADOW (C) = 0.169 ACRES
TOTAL AREA = 1.083 ACRES ±

HYDRAULIC LENGTH = 359' ±
AVERAGE SLOPE = 14.2%

SN004 - DISCHARGE POINT NO.4
SURFACE WATER TO UNNAMED
TRIBUTARY



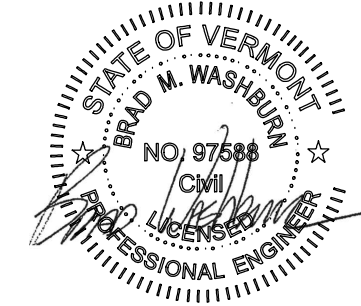
Tailwater Engineering
802.249.4210
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149 Gilman Street, Marshfield, VT 05658

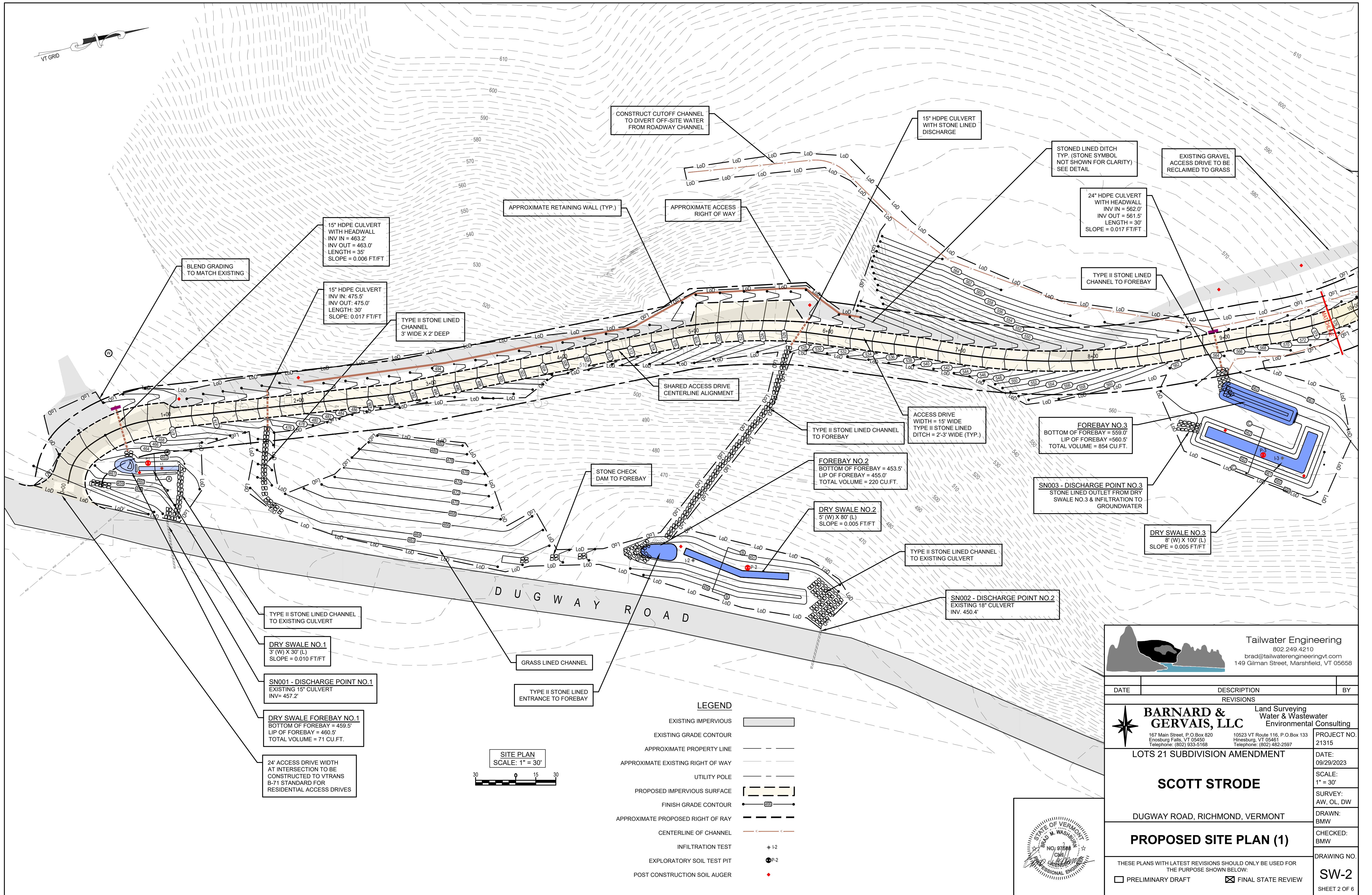
DATE	DESCRIPTION	BY
REVISIONS		
BARNARD & GERVAIS, LLC Land Surveying Water & Wastewater Environmental Consulting		
167 Main Street, P.O.Box 820 Enosburg Falls, VT 05450 Telephone: (802) 933-5168		10523 VT Route 116, P.O.Box 133 Hinesburg, VT 05461 Telephone: (802) 482-2597
PROJECT NO. 21315		DATE: 09/29/2023
LOTS 21 SUBDIVISION AMENDMENT		SCALE: 1" = 60'
SCOTT STRODE		SURVEY: AW, OL, DW
DUGWAY ROAD, RICHMOND, VERMONT		DRAWN: BMW
WATERSHED DELINEATION SITE PLAN		CHECKED: BMW
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.		DRAWING NO.
☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW		SW-1
		SHEET 1 OF 6

LEGEND

- EXISTING IMPERVIOUS
- EXISTING GRADE CONTOUR
- APPROXIMATE PROPERTY LINE
- APPROXIMATE EXISTING RIGHT OF WAY
- UTILITY POLE
- PROPOSED IMPERVIOUS SURFACE
- LIMITS OF DISTURBANCE

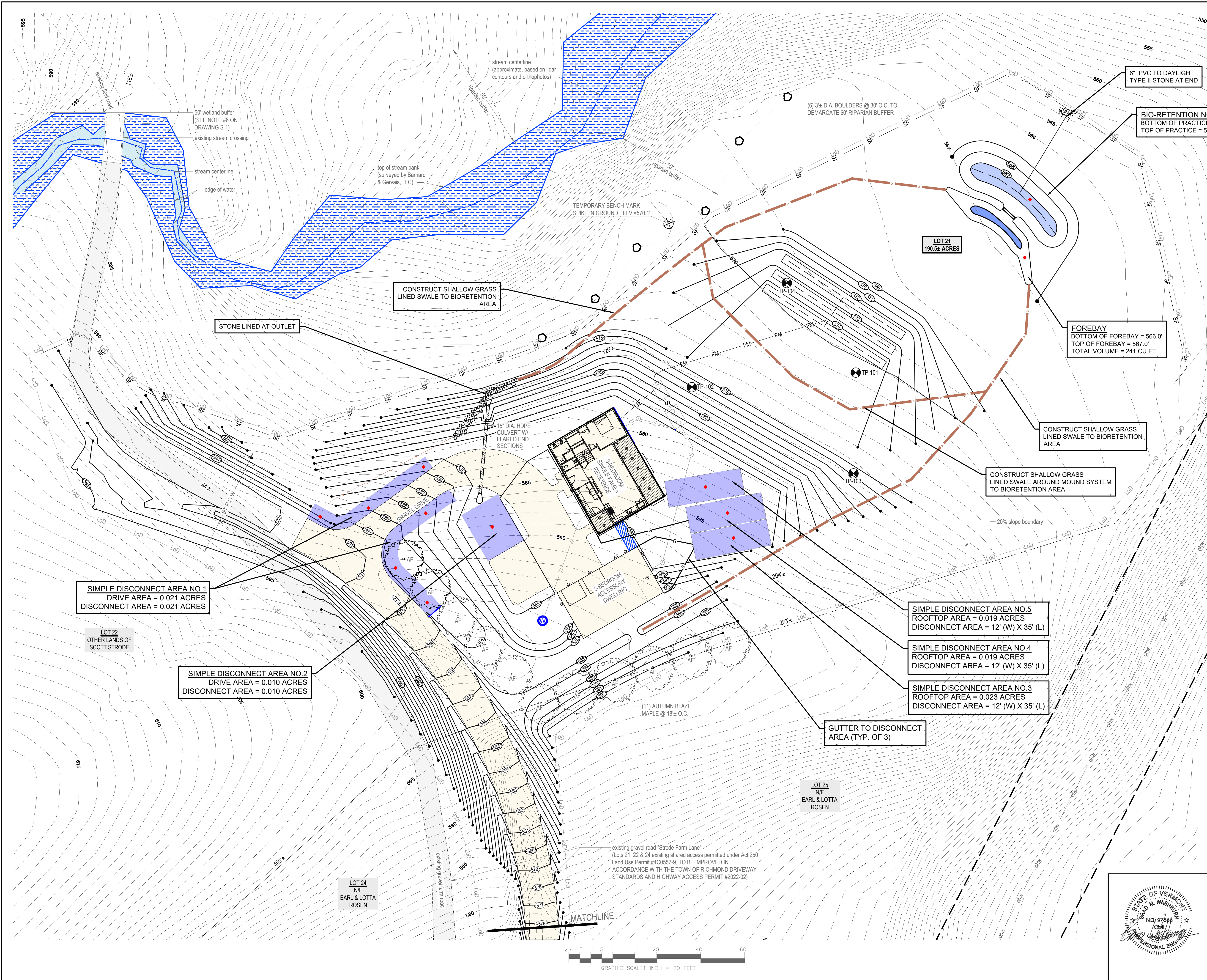
SITE PLAN
SCALE: 1" = 60'





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DATE	DESCRIPTION	BY
REVISIONS		
BARNARD & GERVAIS, LLC Land Surveying Water & Wastewater Environmental Consulting 167 Main Street, P.O. Box 820 Enosburg Falls, VT 05450 Telephone: (802) 933-5168 10523 VT Route 116, P.O. Box 133 Hinesburg, VT 05461 Telephone: (802) 482-2597		
LOTS 21 SUBDIVISION AMENDMENT		PROJECT NO. 21315
SCOTT STRODE		DATE: 09/29/2023
DUGWAY ROAD, RICHMOND, VERMONT		SCALE: 1" = 30'
PROPOSED SITE PLAN (1)		SURVEY: AW, OL, DW
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.		DRAWN: BMW
☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW		CHECKED: BMW
		DRAWING NO. SW-2
		SHEET 2 OF 6

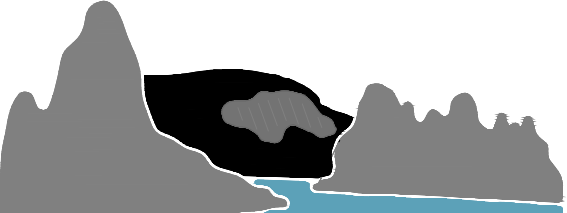


PLANT SCHEDULE				
KEY	SCIENTIFIC NAME	COMMON NAME	QTY.	SIZE
AF	Acer x freemanii	AUTUMN BLAZE MAPLE	11	3" - 3 1/2"

NOTE: NEW TREES SHALL BE PLANTED AND ESTABLISHED IN ACCORDANCE WITH THE "PROTECTING THE INVESTMENT" TREE PLANTING SPECIFICATIONS FURNISHED BY THE VERMONT URBAN & COMMUNITY FORESTRY PROGRAM.

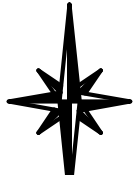
LEGEND

- BOUNDARY LINE/ R.O.W. (SUBJECT PARCEL)
- BOUNDARY LINE/ R.O.W. (ABUTTING PARCEL)
- SIDELINE OF EASEMENT
- EDGE OF ROAD/DRIVE (SURFACE NOTED)
- 100 1-FOOT LIDAR CONTOUR (OBTAINED FROM VCGI DATABASE)
- 100 1-FOOT GROUND SURVEY CONTOUR
- 100 FINISH GRADE
- BUILDING ENVELOPE
- TREE LINE
- PROPOSED LIMITS OF CLEARING
- STONE WALL (EXISTING)
- STREAM CENTERLINE
- DI DITCHLINE
- S S GRAVITY SEWER
- FM FM FORCE MAIN
- W W 1-INCH DIAMETER CL200 POLYETHYLENE PLASTIC WATER LINE (UNLESS OTHERWISE NOTED)
- WELL ISOLATION
- WASTEWATER ISOLATION
- SF SILT FENCE
- LoD LIMITS OF DISTURBANCE
- WL WETLAND BOUNDARY
- WETLAND BUFFER
- RIPARIAN BUFFER
- EDGE OF FIELD
- 20% SLOPE BOUNDARY
- ue UNDERGROUND ELECTRICAL (EXISTING)
- UE UNDERGROUND ELECTRICAL (PROPOSED)
- ohw UTILITY POLE/ OVERHEAD WIRES (EXISTING)
- SURVEY TRAVERSE STATION
- TEMPORARY BENCHMARK (TYPE AND ELEVATION NOTED)
- TEST PIT (TP-01)
- SOIL BORING (SB-01)
- DRILLED WELL (UNLESS OTHERWISE NOTED)
- EXTERIOR LIGHT FIXTURE (WALL-MOUNTED)
- EXTERIOR LIGHT FIXTURE (CEILING-MOUNTED)
- PROPOSED TREE (SEE PLANT SCHEDULE)
- POST CONSTRUCTION AUGER HOLE



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149 Gilman Street, Marshfield, VT 05658

DATE	DESCRIPTION	BY



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Water & Wastewater
Environmental Consulting
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Hinesburg, VT 05461
Telephone: (802) 482-2597

PROJECT NO.
21315
DATE:
09/29/2023
SCALE:
1" = 20'
SURVEY:
AW, OL, DW
DRAWN:
SB, DW, BMW
CHECKED:
BMW
DRAWING NO.
SW-3
SHEET 3 OF 6

LOT 21 SUBDIVISION AMENDMENT

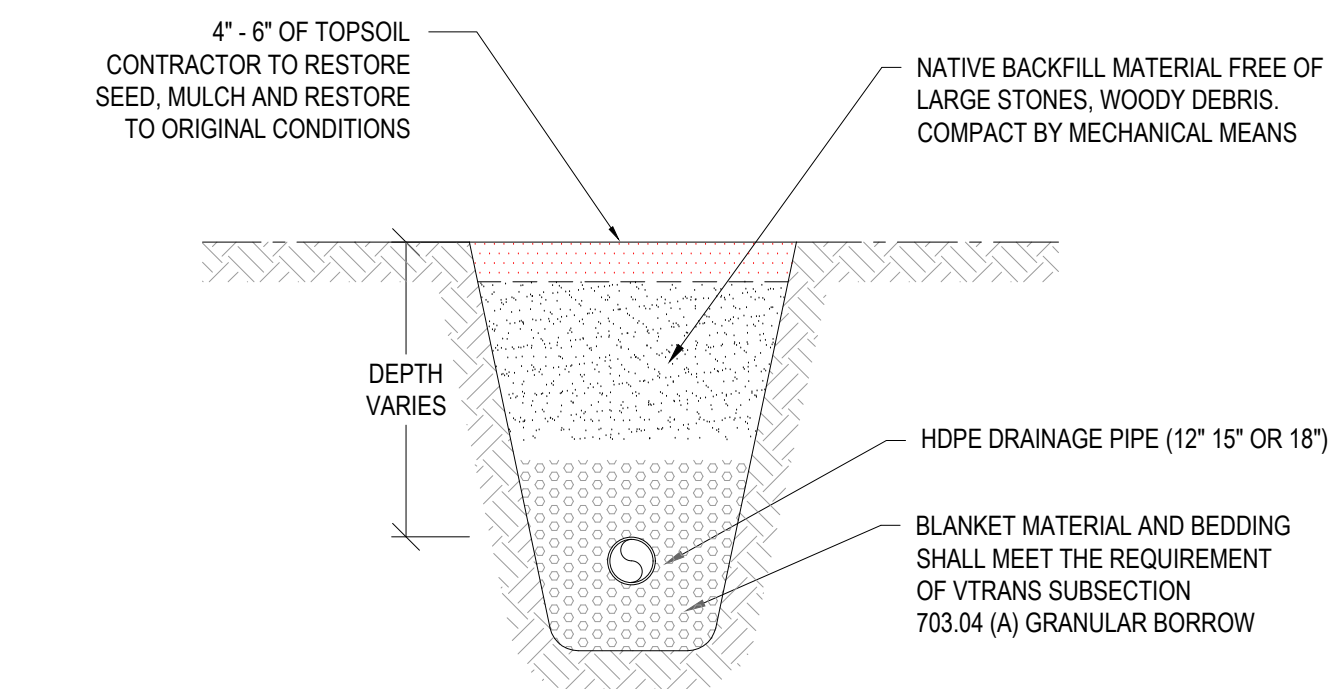
SCOTT STRODE

DUGWAY ROAD, RICHMOND, VERMONT

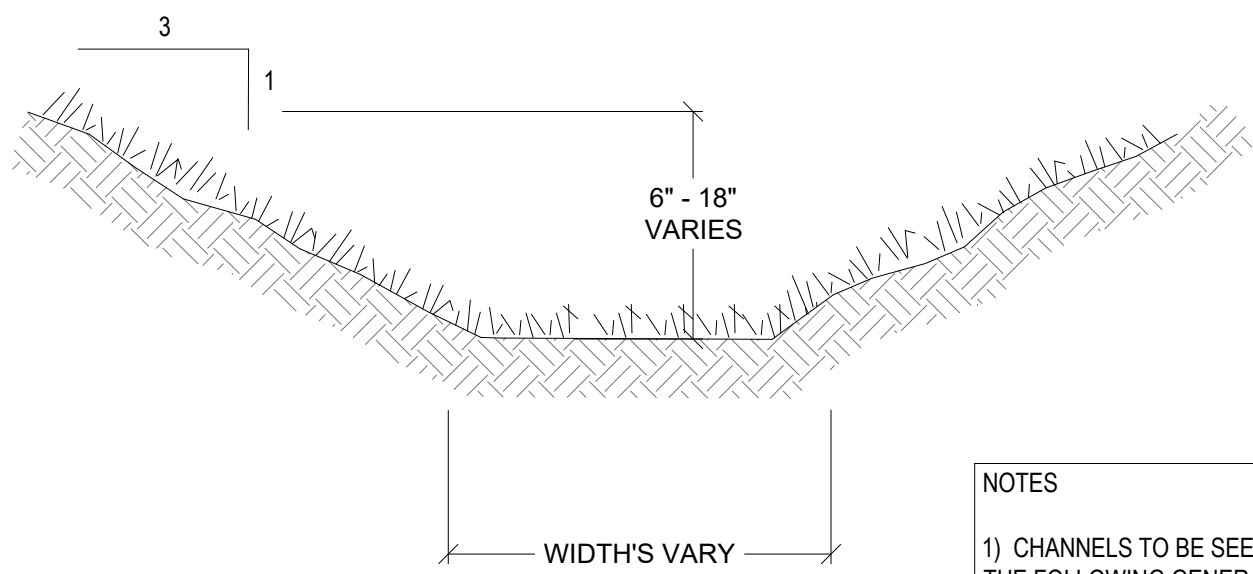
PROPOSED SITE PLAN (2)

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW



TYPICAL STORM PIPE EMBEDMENT
SCALE: NONE



GRASS-LINED CHANNEL
SECTION VIEW
SCALE: NONE

- NOTES
- 1) CHANNELS TO BE SEEDED WITH A THE FOLLOWING GENERAL SEED MIX
BIRDSFOOT TREFOIL @ 5 LBS/ACRE
TALL FESCUE @ 10 LBS/ACRE
REDTOP @ 2 LBS PER ACRE
RYEGRASS @ 5 LBS PER ACRE.
 - 2) TEMPORARY RECP NORTH AMERICAN GREEN S75 IS TO BE UTILIZED ON THE SIDE SLOPES AND BOTTOM ALL THE CHANNELS. INSTALL PER MANUFACTURERS SPECIFICATIONS.

SOIL TEST PITS

PERFORMED SUMMER 2023

- P-1
0\"/>
- P-2
0\"/>
- P-3
0\"/>

PERFORMED 12/2021

- TP 101
0\"/>
- TP 102
0\"/>
- TP 103
0\"/>
- TP 104
0\"/>

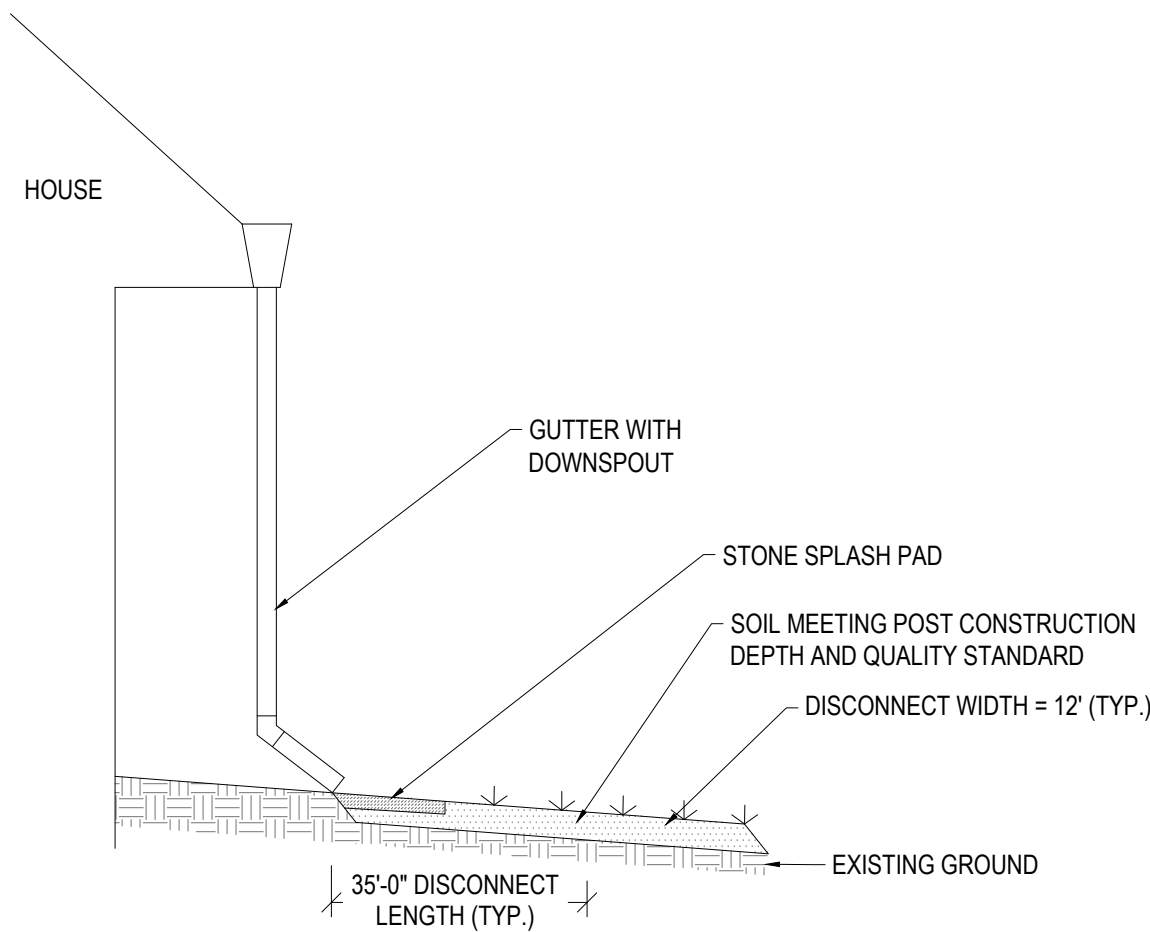
INFILTRATION TESTS

PERFORMED SUMMER 2023

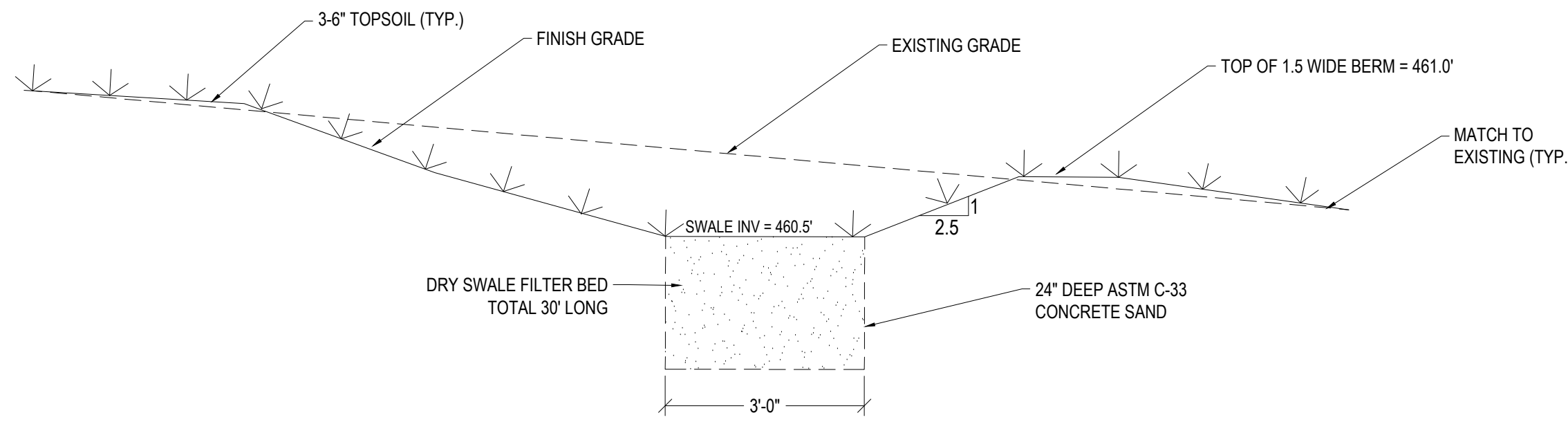
- I-1 - FIELD RESULTS = 8\"/>
- I-2 - FIELD RESULTS = 10\"/>
- I-3 - FIELD RESULTS = 13\"/>

NOTES

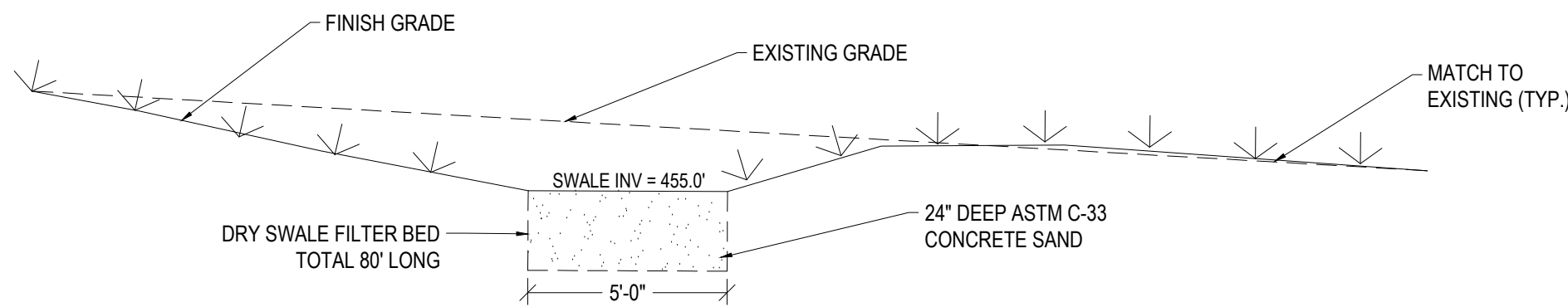
- 1) CHANNELS TO BE SEEDED WITH A THE FOLLOWING GENERAL SEED MIX
BIRDSFOOT TREFOIL @ 5 LBS/ACRE
TALL FESCUE @ 10 LBS/ACRE
REDTOP @ 2 LBS PER ACRE
RYEGRASS @ 5 LBS PER ACRE.
- 2) TEMPORARY RECP NORTH AMERICAN GREEN S75 IS TO BE UTILIZED ON THE SIDE SLOPES AND BOTTOM ALL THE CHANNELS. INSTALL PER MANUFACTURERS SPECIFICATIONS.



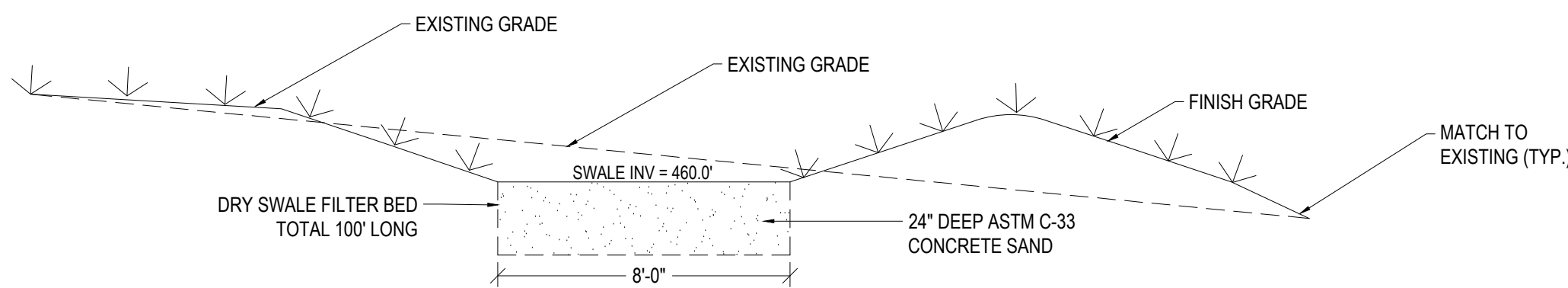
TYPICAL SIMPLE DISCONNECT WITH DOWNSPOUT
NO SCALE



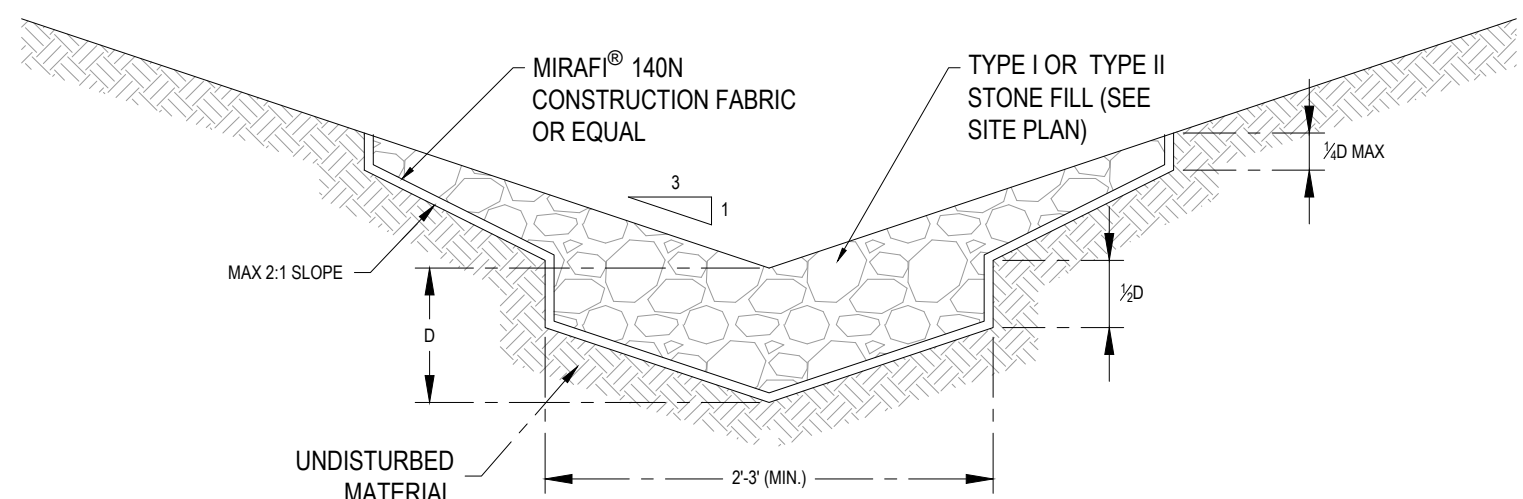
DRY SWALE NO. 1 - CROSS SECTION A-A
SCALE: 1\"/>



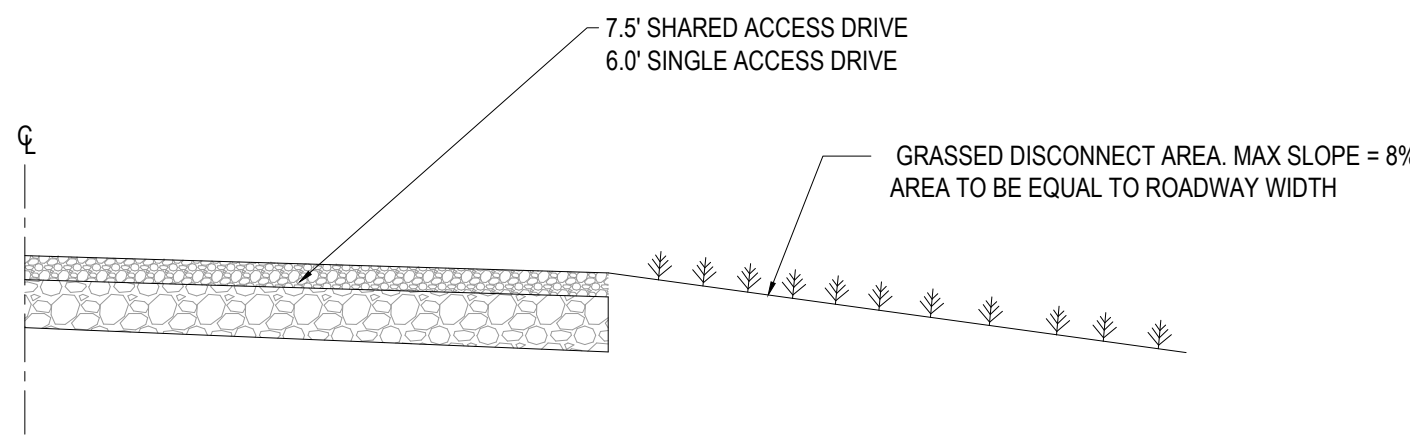
DRY SWALE NO.2 - CROSS SECTION B-B
SCALE: 1\"/>



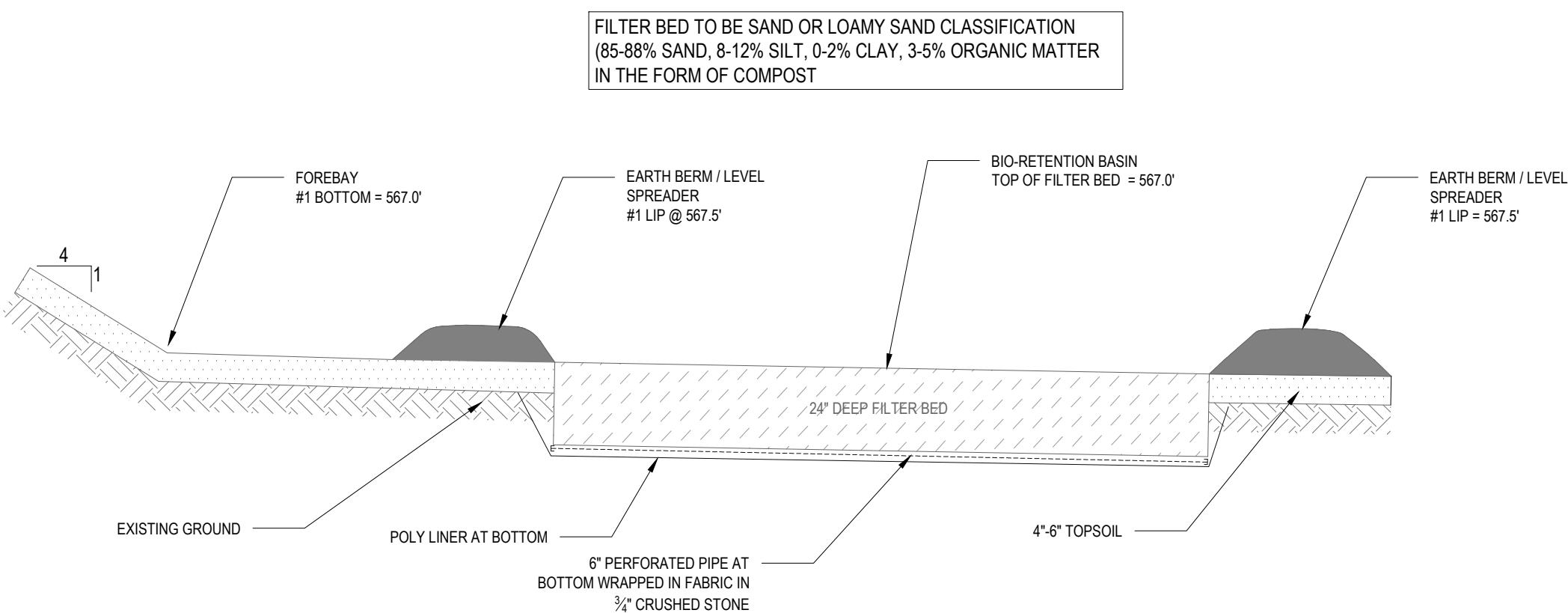
DRY SWALE NO.3 - CROSS SECTION C-C
SCALE: 1\"/>



STONE-LINED SWALE
SCALE: NONE



ACCESS DRIVE DISCONNECT
NOT TO SCALE



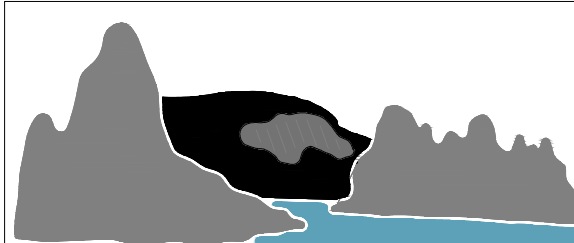
LOT 21 BIO-RETENTION CROSS SECTION
SCALE: NONE



POST-CONSTRUCTION SOIL DEPTH & QUALITY STANDARD
FINISHED VEGETATED SURFACE
SCALE: NONE

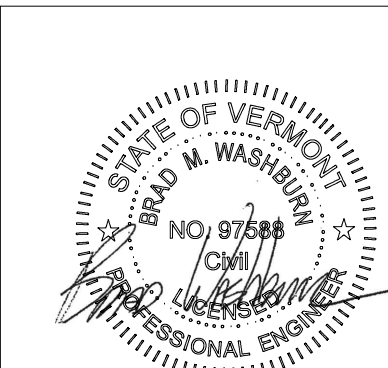
POST -CONSTRUCTION SOIL DEPTH & QUALITY STANDARD NOTES

1. THE TOPSOIL IS TO BE A MINIMUM OF 4\"/>
2. THE FOLLOWING TWO METHODS ARE TO BE UTILIZED BY THE CONTRACTOR IN ORDER TO MEET THE SOIL QUALITY REQUIREMENTS FOR THE SITE:
A) REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING
B) IMPORT TOPSOIL MIX, OR OTHER MATERIALS FOR MIXING, INCLUDING COMPOST, OF SUFFICIENT ORGANIC CONTENT AND DEPTH
3. THE SOIL DEPTH AND QUALITY SHALL BE ESTABLISHED TOWARDS THE END OF CONSTRUCTION, AND ONCE ESTABLISHED, BE PROTECTED FROM COMPACTION.
4. CONTRACTOR TO VERIFY THAT THE STANDARD IS BEING MET BY PERFORMING 8-INCH DEEP ST HOLES PER ACRE OF DISTURBANCE. SEE SITE PLAN.
5. TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEN DRIVEN SOLEY BY THE INSPECTORS WEIGHT AND SHALL BE AT LEAST 50' APART



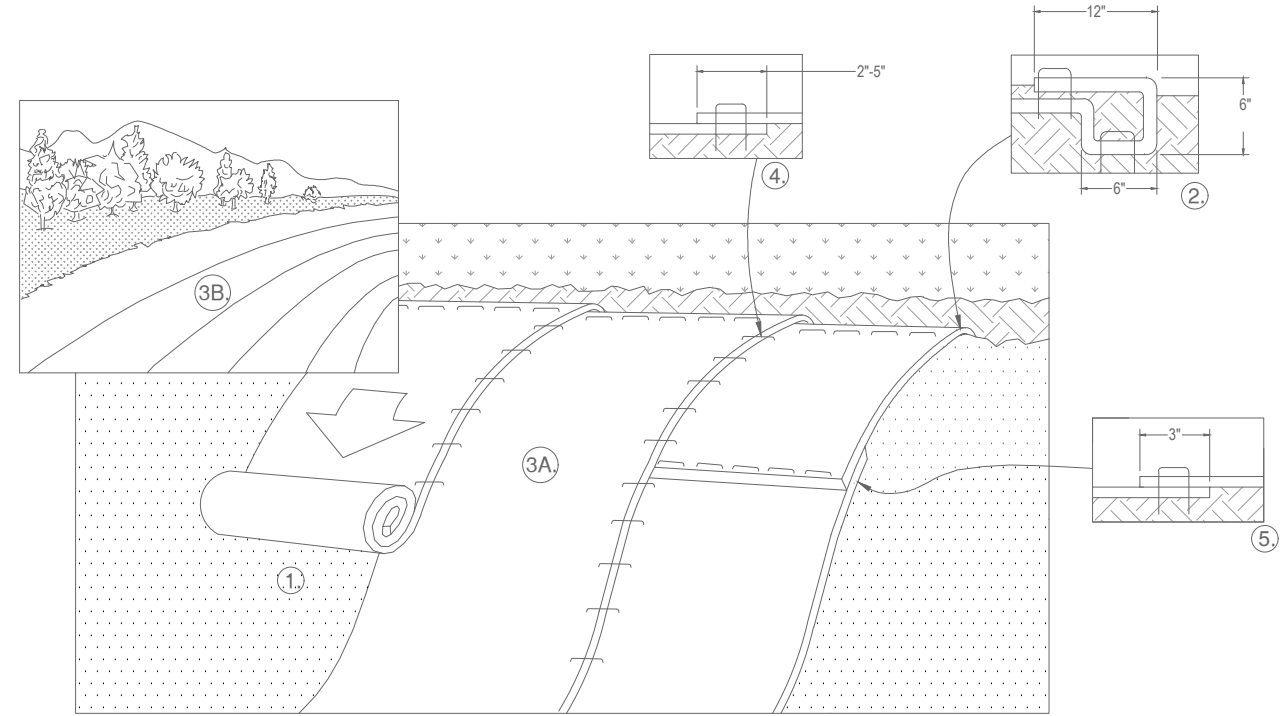
Tailwater Engineering
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149 Gilman Street, Marshfield, VT 05668

DATE	DESCRIPTION	BY
REVISIONS		
BARNARD & GERVAIS, LLC Land Surveying Water & Wastewater Environmental Consulting		
167 Main Street, P.O.Box 820 Enosburg Falls, VT 05450 Telephone: (802) 933-5168		
10523 VT Route 116, P.O.Box 133 Hinesburg, VT 05461 Telephone: (802) 482-2597		
PROJECT NO. 21315		
DATE: 09/29/2023		
SCALE: AS NOTED		
SURVEY: AW, OL, DW		
DRAWN: SB,BMW		
CHECKED: BMW		
DRAWING NO. SW-4		
SHEET 4 OF 6		



BRAD WASHBURN, PE
LICENSE NO. 97855

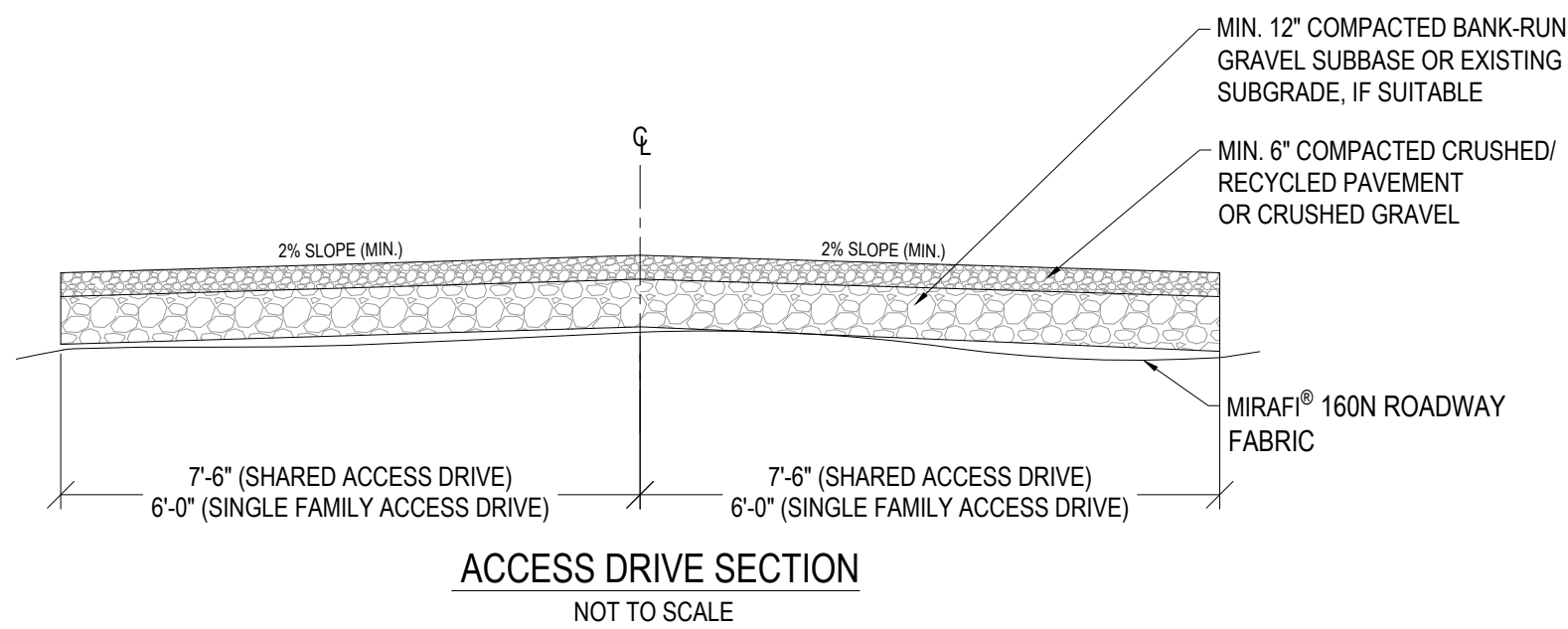
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.
☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW



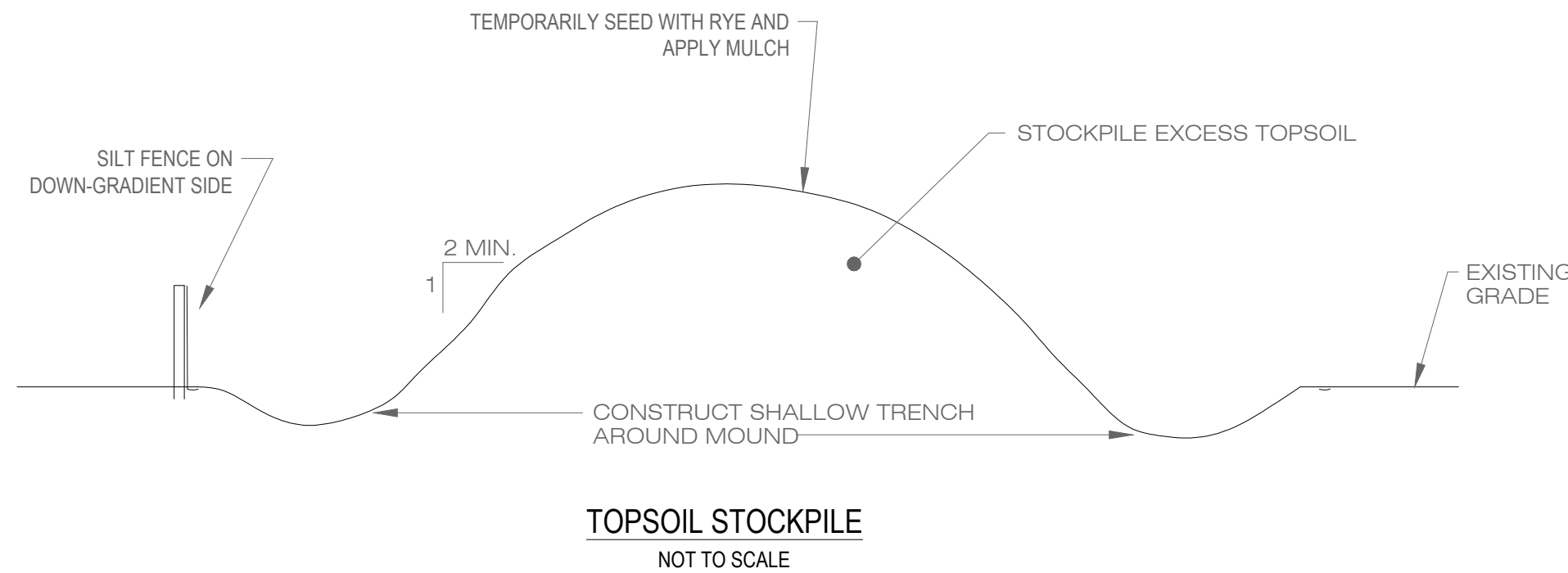
SLOPE PROTECTION DETAIL
SCALE: NONE

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED, APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.

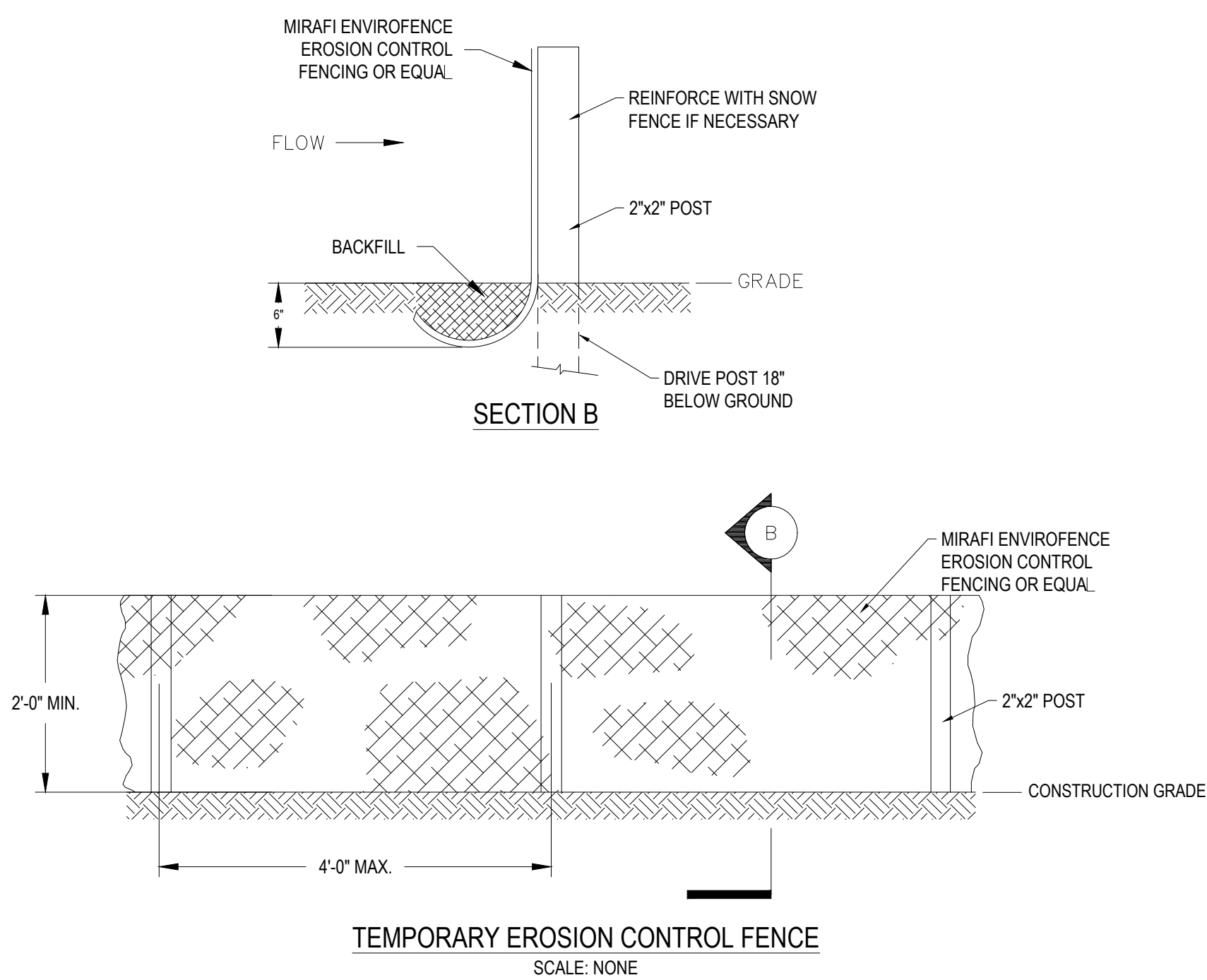
NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
NOTE: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.



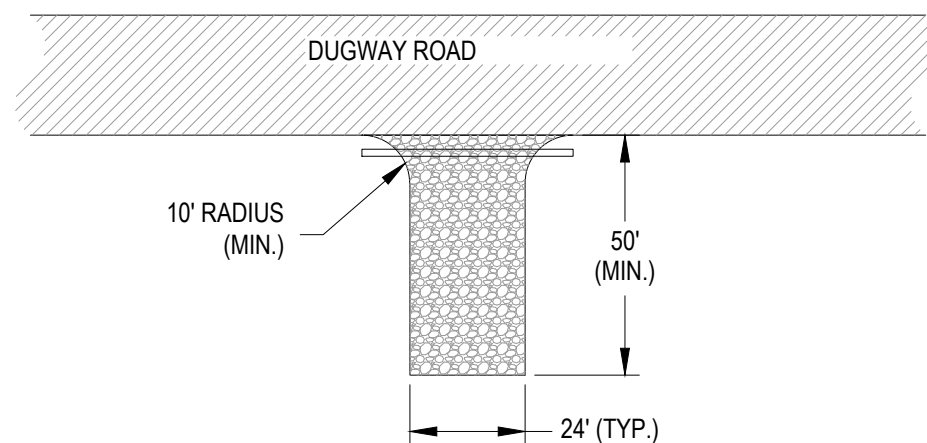
ACCESS DRIVE SECTION
NOT TO SCALE



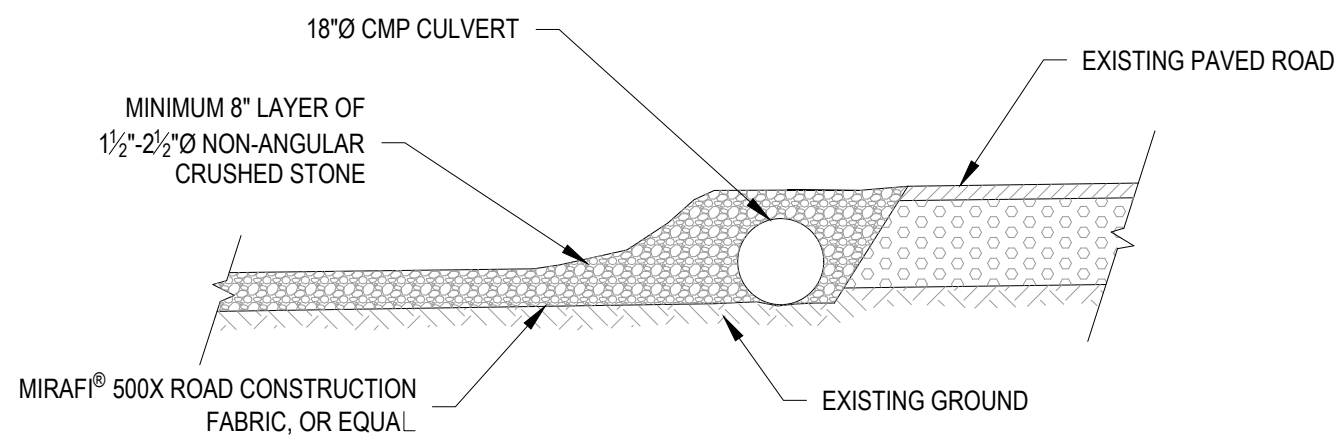
TOPSOIL STOCKPILE
NOT TO SCALE



TEMPORARY EROSION CONTROL FENCE
SCALE: NONE

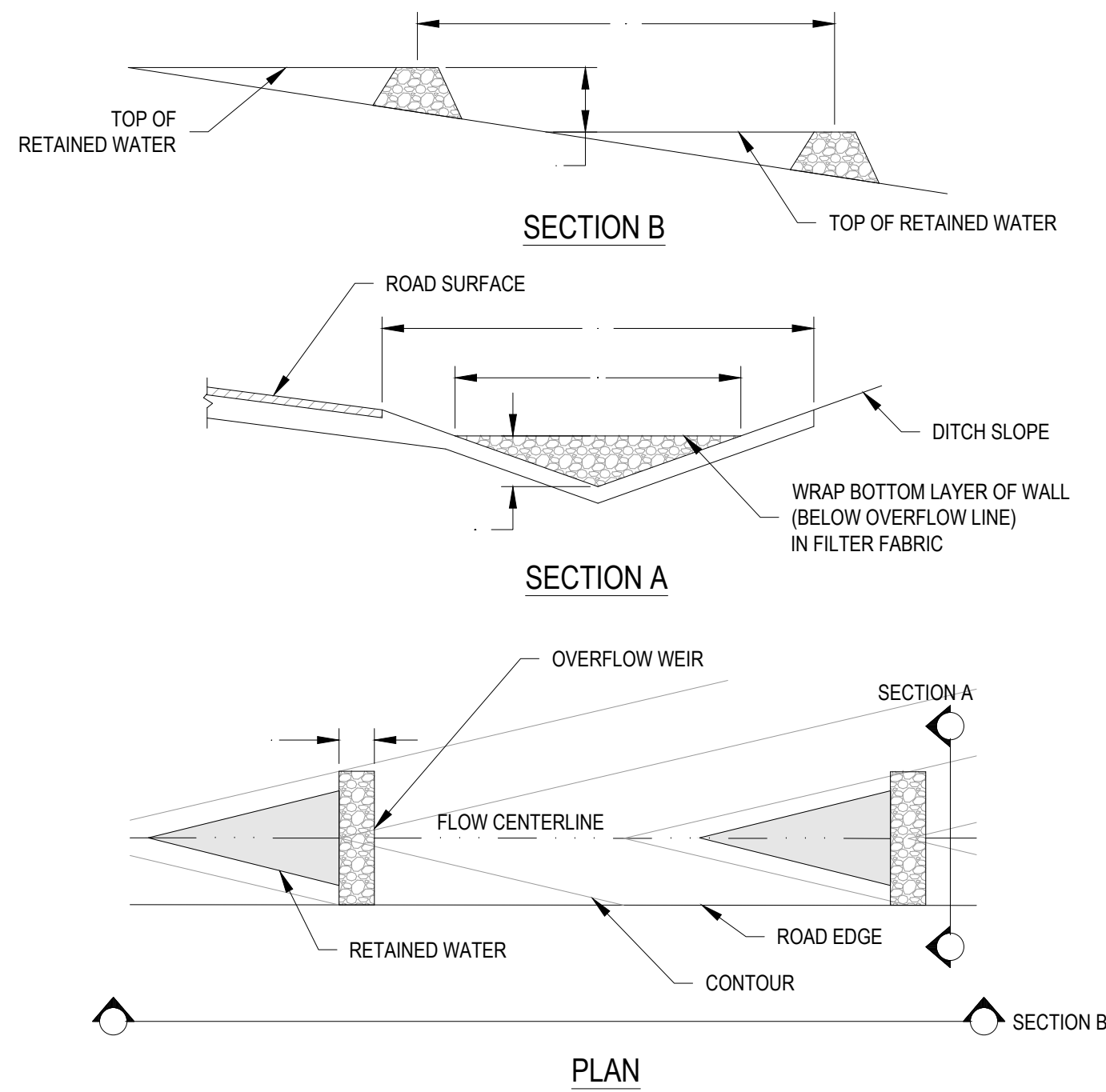


TYPICAL STABILIZED CONSTRUCTION ENTRANCE DETAIL
SCALE: NONE



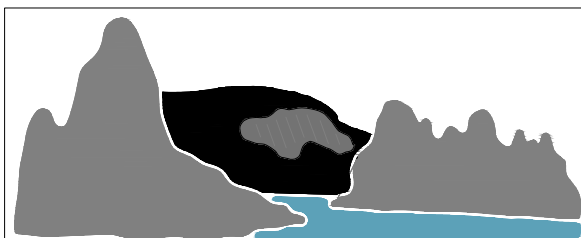
TYPICAL STABILIZED CONSTRUCTION ENTRANCE SECTION
SCALE: NONE

- NOTES:
1. DIMENSIONS SHOWN ARE THE MINIMUM ENTRANCE SIZE. THE USE OF LARGE SCALE EQUIPMENT MAY REQUIRE LARGER WIDTH, LENGTH, AND TURNING RADIUS.
 2. ROAD CONSTRUCTION FABRIC TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
 3. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO ASSURE EFFECTIVE SEDIMENT REMOVAL FROM VEHICLES. THIS SHALL INCLUDE THE ADDITION OF GRAVEL TO MAINTAIN A MINIMUM DEPTH OF 8", WASHING SEDIMENT FROM THE GRAVEL SURFACE, AND SWEEPING THE PAVED ROAD IN FRONT OF THE ENTRANCE.
 4. ALL ENTRANCES TO THE SITE MUST BE STABILIZED BEFORE ANY CONSTRUCTION EQUIPMENT MAY ENTER THE SITE. ALL TRAFFIC MUST ENTER/EXIT THE SITE VIA THE STABILIZED ENTRANCES.

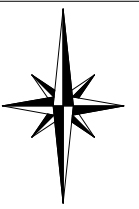


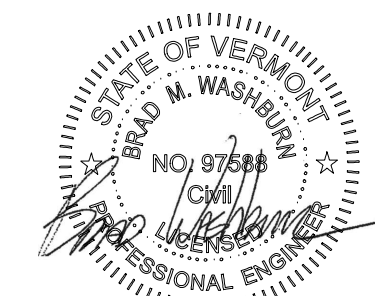
STONE CHECK DAM
SCALE: NONE

- NOTES
1. INSTALL STONE CHECK DAMS IN ALL AREAS WHERE CONCENTRATED WATERS IS BEING DIRECTED DURING CONSTRUCTION.
 2. CONTRACTOR TO MAINTAIN AND INSPECT CHECK DAM CONDITIONS AFTER LARGE RAIN STORM EVENTS.

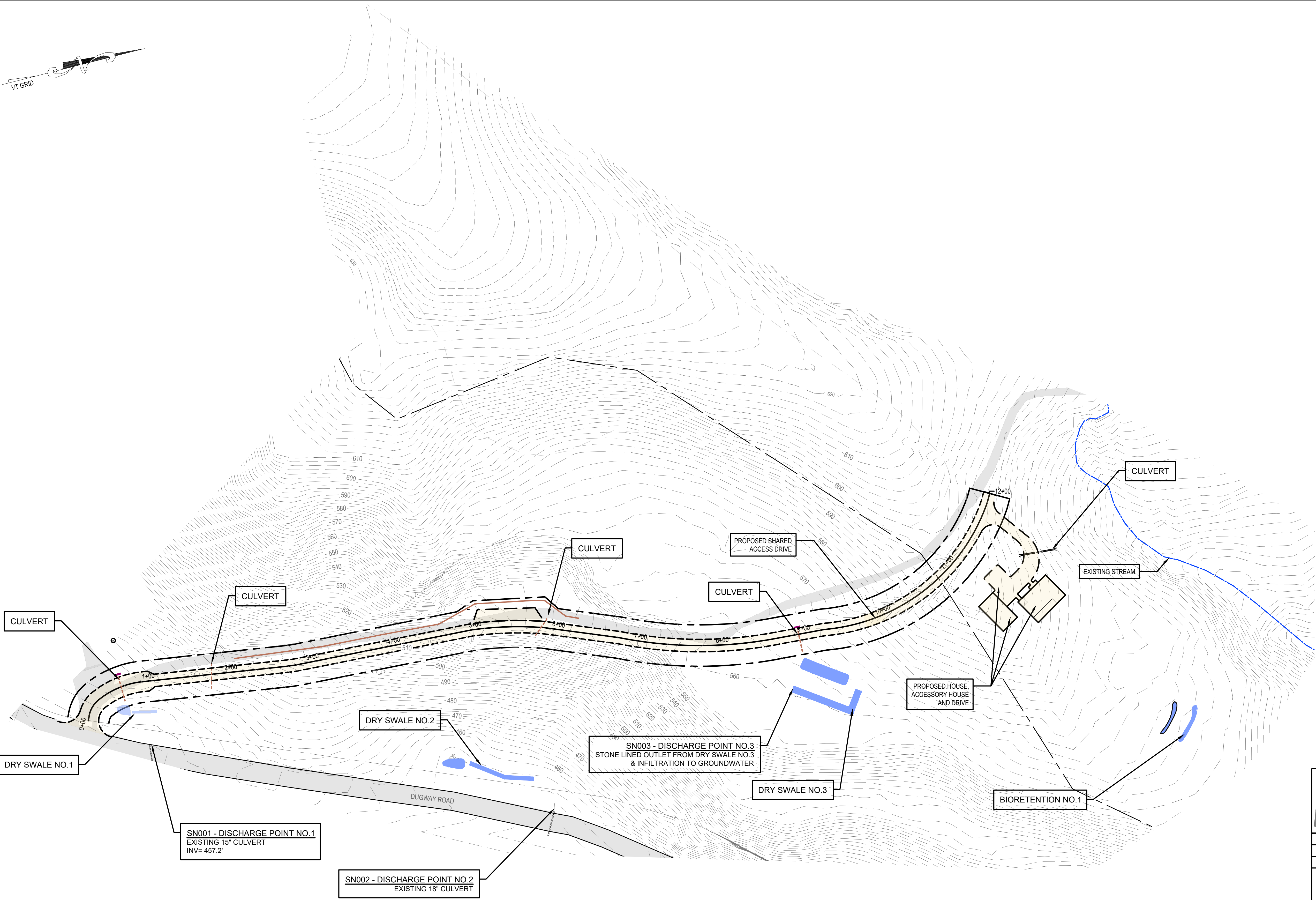
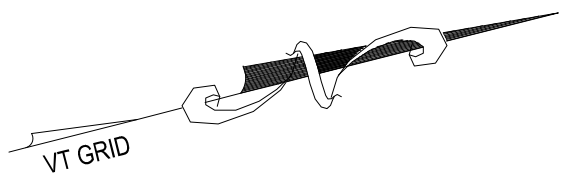


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149 Gilman Street, Marshfield, VT 05658

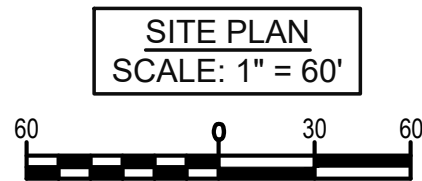
DATE	DESCRIPTION REVISIONS	BY
BARNARD & GERVAIS, LLC 167 Main Street, P.O.Box 820 Enosburg Falls, VT 05450 Telephone: (802) 933-5168 Land Surveying Water & Wastewater Environmental Consulting 10523 VT Route 116, P.O.Box 133 Hinesburg, VT 05461 Telephone: (802) 482-2597		
LOTS 21 SUBDIVISION AMENDMENT		PROJECT NO. 21315
SCOTT STRODE		DATE: 09/29/2023
DUGWAY ROAD, RICHMOND, VERMONT		SCALE: AS NOTED
CONSTRUCTION DETAILS (2)		SURVEY: N/A
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.		DRAWN: SB, BMW
☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW		CHECKED: BMW
		DRAWING NO. SW-5
		SHEET 5 OF 6



BRAD WASHBURN, PE
LICENSE NO. 97855



- LEGEND**
- EXISTING IMPERVIOUS
 - EXISTING GRADE CONTOUR
 - APPROXIMATE PROPERTY LINE
 - APPROXIMATE EXISTING RIGHT OF WAY
 - UTILITY POLE
 - PROPOSED IMPERVIOUS SURFACE
 - LIMITS OF DISTURBANCE



BIO-RETENTION AREA NOTES

- CHECK TO INSURE THE FILTER SURFACE REMAINS WELL DRAINING AFTER STORM EVENTS
- CHECK INLETS AND OUTLETS FOR LEAVES AND DEBRIS. IF DEBRIS IS FOUND, RAKE IN AND AROUND THE SYSTEM TO CLEAR IT OF DEBRIS AND CLEAR THE INLET AND OVERFLOW IF OBSTRUCTED.
- CHECK FOR ANIMAL BURROWS AND SHORT CIRCUITING IN THE SYSTEM.CLEAR REPAIR WHEN THEY OCCUR. THE HOLES SHOULD BE FILLED AND LIGHTLY COMPACTED
- CHECK TO INSURE THE FILTER BED DOES NOT CONTAIN MORE THAN 2 INCHES ACCUMULATED MATERIAL. REMOVE SEDIMENT AS NECESSARY. IF 2 INCHES OR MORE OF FILTER BED HASBEEN REMOVED, REPLACE MEDIA WITH EITHER MULCH OR A (50% SAND, 20% WOODCHIPS 20% COMPOST, 10% SOIL) MIXTURE.
- DURING EXTENDED PERIODS WITHOUT RAINFALL, INSPECT PLANTS FOR SIGNS OF DISTRESS. PLANTS SHOULD BE WATERED UNTIL ESTABLISHED
- INSPECT INLETS AND OUTLETS TO ENSURE GOOD CONDITION AND NO EVIDENCE OF DETERIORATION. CHECK TO SEE IF HIGH-FLOW BYPASS IS FUNCTIONING. REPAIR OR REPLACE ANY DAMAGED STRUCTURAL PARTS.INLETS, OUTLETS, SIDEWALLS.
- ANNUALLY CHECK FOR ROBUST VEGETATION COVERAGE THROUGHOUT THE SYSTEM. REMEDY: IF AT LEAST 50 % VEGETATION COVERAGE IS NOT ESTABLISHED AFTER 2 YEARS, REINFORCEMENT PLANTING SHOULD BE PERFORMED.
- CHECK FOR DEAD OR DYING PLANTS, AND GENERAL LONG TERM PLANT HEALTH. THIS VEGETATION SHOULD BE CUT AND REMOVED FROM THE SYSTEM. IF WOODY VEGETATION IS PRESENT, CARE SHOULD BE TAKEN TO REMOVE DEAD OR DECAYING PLANT MATERIAL. SEPARATION OF HERBACEOUS VEGETATION ROOTSTOCK SHOULD OCCUR WHEN OVERGROWING IS OBSERVED.

CULVERT MAINTENANCE NOTES

- CULVERT MAINTENANCE SHALL OCCUR WHEN FLOWS ARE LOW. TYPICALLY THIS IS BETWEEN MAY AND OCTOBER.
- VISUAL INSPECTION OF CULVERT SHALL BE COMPLETED ANNUALLY TO CHECK FOR DEBRIS AND SEDIMENT ACCUMULATION.
- ACCUMULATED TRASH AND VEGETATION SHALL BE REMOVED BY HAND.
- SEDIMENT SHALL BE CLEANED OUT BY HYDRO-JETTING (OR OTHER APPROVED METHOD) EVERY THREE YEARS, OR WHEN SEDIMENT DEPTH EXCEEDS 20% OF PIPE DIAMETER (IE. MORE THAN 2.5 INCHES IN A 12 INCH PIPE).
- VISUAL INSPECTION OF HEADWALL AND WINGWALLS, CULVERT ENTRANCE AND EXIT, AND DISCHARGE APRON TO CHECK FOR CRACKS, COLLAPSE, EROSION OR SCOUR, OR OTHER DAMAGE. REPORT ANY VISIBLE STRUCTURAL DAMAGE TO THE ENGINEER FOR FURTHER EVALUATION. 6. ANY PIPE DISTURBANCE, MOUNDING, OR CLOGGING SHOULD BE REPORTED TO THE ENGINEER FOR FURTHER EVALUATION.

GRASS SWALE, FOREBAY & DISCONNECTION NOTES

- VISUAL INSPECTION OF GRASS SWALE, PRE-TREATMENT FOREBAUS AND DISCONNECTION AREAS TO BE COMPLETED ANNUALLY TO ENSURE DENSE\ GROWTH OF GRASS.
- MOWING OF GRASS SWALES TO BE COMPLETED ANNUALLY.
- IF ANY EROSION IS NOTED CONTACT ENGINEER FOR FURTHER EVALUATION.
- REMOVE SEDIMENT EVERY 3 YEARS, OR IF SEDIMENT DEPTH EXCEEDS 3 INCHES.

STONE LINED SWALES / INLETS AND OUTLETS NOTES

- VISUAL INSPECTION TO CHECK FOR EVENLY DISTRIBUTED STONE, NO SEDIMENT ACCUMULATION AND EROSION ARE TO BE COMPLETED ANNUALLY.
- STONE HEADWALL TO BE CHECKED ANNUALLY TO ENSURE STABILITY.
- IF DEFICIENCIES ARE NOTED, STONE TO BE REMOVED, CLEANED AND PUT BACK IN PLACE WITHIN 30 DAYS AND REPORTED TO THE ENGINEER.



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149 Gilman Street, Marshfield, VT 05658

DATE	DESCRIPTION	BY
REVISIONS		

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LOTS 21 SUBDIVISION AMENDMENT

SCOTT STRODE

DUGWAY ROAD, RICHMOND, VERMONT

ANNOTATED MAINTENANCE SITE PLAN

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.

- ☐ PRELIMINARY DRAFT ☒ FINAL STATE REVIEW

PROJECT NO.
21315

DATE:
09/29/2023

SCALE:
1" = 60'

SURVEY:
AW, OL, DW

DRAWN:
BMW

CHECKED:
BMW

DRAWING NO.

SW-6

SHEET 6 OF 6

