Drawing: W:\CADDESIGN\30514.00003-DE\CAD\HSS-TITLE.DWG Layout Tab:11X17-TITLE

GREEN SCHOOLS STORMWATER

HINESBURG COMMUNITY SCHOOL
HINESBURG, VERMONT

100% SUBMITTAL
SEPTEMBER 1, 2023
REVISED: JANUARY 3, 2024



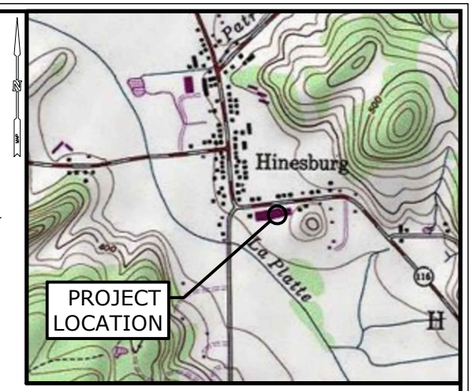
PROJECT SITE VICINITY MAP:

0' 250' 500'
0 1/2" 1"
SCALE 1" = 500'

PREPARED BY:

SLR

1 SOUTH MAIN STREET
WATERBURY, VT 05676
802.882.8335
SLRCONSULTING.COM



LOCATION MAP:

0' 1000' 2000'
0 1/2" 1"
SCALE 1" = 2000'

PREPARED FOR:

GREENPRINT PARTNERS
17 NORTH STATE STREET SUITE 1400
CHICAGO, IL 60602

LIST OF DRAWINGS:

NO.	NAME	TITLE
01	--	TITLE SHEET
02	EX-1	EXISTING CONDITIONS PLAN
03	EX-2	SOILS PLAN
04	EX-3	IMPERVIOUS SURFACES
05	PR-1	PROPOSED STORMWATER INFRASTRUCTURE
06	PR-2	DRAINAGE AREAS
07	PR-3	WETLAND 1
08	PR-4	WETLAND 2
09	PR-5	CONSTRUCTION LIMITS
10	N-1	GENERAL NOTES
11	DET-1	STORMWATER DETAILS

811
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Plotted by: ETHOMPSON On this date: Wed, 2024 January 3 - 10:21am

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VT ROUTE 116

18" RCP OUTLET WITH STONE HEADWALL INV.=347.58

18" CPP OUTLET INV.=348.99

24" CMP OUTLET INV.=348.63

MASONIC TEMPLE & NURSERY SCHOOL

BIORETENTION AREA (CONSTRUCTED 2014)

CB (1)
T.G.=355.50
INV.=350.00 (S)
INV.=-2.84 (E)

59'-18" HDPE
S=4.75%

CB (2)
T.G.=353.20
INV.=347.20 (N)
INV.=347.10 (SW)

HINESBURG COMMUNITY SCHOOL

YD - (1)
INV.=356.5

SEWER MH
RIM BURIED
8" IN=330.1'

EXISTING DRAINAGE SWALE

SEWER MH
RIM 343.2'
4" IN=334.4'
8" IN=333.9'
8" OUT=333.7'

S=5.57%
104'-18" HDPE

S=5.50%
173'-15" HDPE

53 LF-PVC

S=1.90%
76'-15" CMP

OUTLET (3)
INV.=341.3

OUTLET (2)

OUTLET (1)
INV.=340.6

OUTLET (4)
INV.=335.9

INLET (2)
INV.=331.8

INLET (1)
INV.=337.4

S=1.24%
30'-18" HDPE

SILVER STREET

EXISTING DRAINAGE SWALES

PARKING LOT RECEIVES TREATMENT UNDER STORMWATER PERMIT 3570-9010

IMPERVIOUS COVER FOR PERMIT, TYP.

EXISTING HEADWALL

EXISTING DRAINAGE SWALE

CLASS II WETLAND 50FT BUFFER, TYP.

CLASS II WETLAND BOUNDARY, TYP.

LaPlatte River

N

W E

S

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REVISIONS

EXISTING CONDITIONS PLAN

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL

10888 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

SCALE 1"=70'

DATE AUGUST 25, 2023

PROJECT NO. 20514.00003

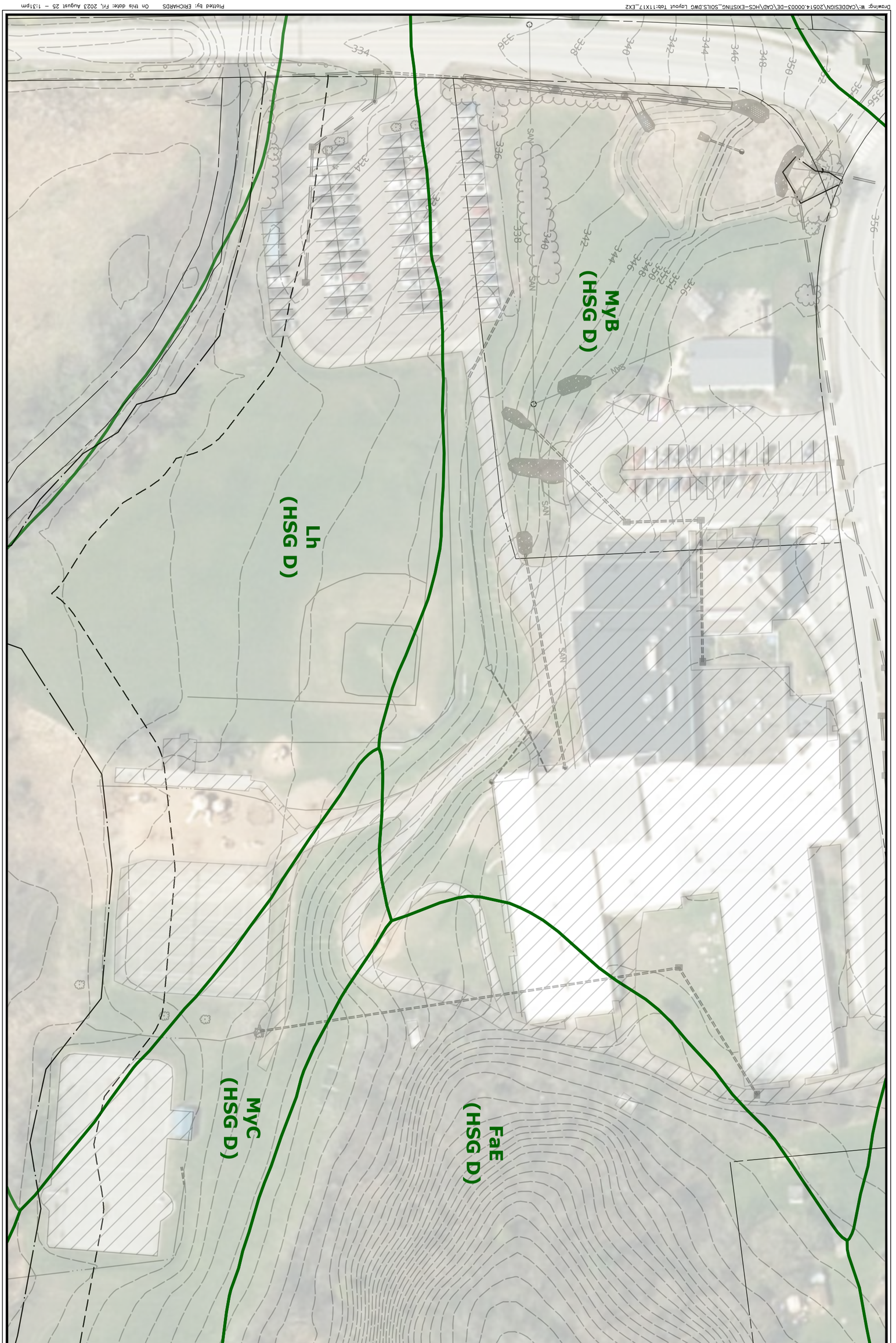
EX-1

SHEET NO.

Drawing: W:\CAD\ESIGN\2021\20514.00003-DE\CAD\Z-BASE.DWG Layout: Tab2 11/17/2023 - 1:29pm

Plotted by: ERICHARDS On this date: Fri, 2023 August 25 - 11:29pm

Drawing: M:\CADDESIGN\20514.00003-DE\CAD\HCS-EXISTING_SOILS.DWG Layout Tab:11X17_EX2
Plotted By: ERICHARDS On this date: Fri, 2023 August 25 - 1:31pm



SHEET NO.
EX-2

PROJECT NO: 20514.00003
DATE: AUGUST 23, 2023
SCALE: 1"=70'
DESIGNED: --
DRAWN: EMR
CHECKED: --

EXISTING CONDITIONS - SOILS PLAN

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL

10888 VERMONT ROUTE 116
HINESBURG, VERMONT

REVISIONS

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Drawings: W:\CAD\DESIGN\20514.00003-DE\CAD\HCS-IMPERVIOUS.DWG Layout Tab:1X17_EX3

VT ROUTE 116

MASONIC TEMPLE & NURSERY SCHOOL

HINESBURG COMMUNITY SCHOOL

BIORETENTION AREA (CONSTRUCTED 2014)

SILVER STREET

AREA NOT OWNED BY SCHOOL, ACCOUNTED FOR IN SIZING

EXISTING IMPERVIOUS COVER FOR NEW COVERAGE

PREVIOUSLY COVERED UNDER 3570-9010. INCLUDED IN PERMIT COVERAGE.

SN-01

CLASS II WETLAND 50FT BUFFER, TYP.

CLASS II WETLAND BOUNDARY, TYP.

SN-02

Plotted by: ERICHARDS On this date: Mon, 2023 August 28 - 2:19pm

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REVISIONS

EXISTING CONDITIONS - IMPERVIOUS SURFACES

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10888 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

SCALE: 1"=70'

DATE: AUGUST 28, 2023

PROJECT NO.: 20514.00003

SHEET NO.: **EX-3**

Drawing: W:\CAD\DESIGN\2561400003-DE\CAD\HCS-600ESIGN_20230907.DWG Layout: Tab1 11/17/_PR1

VT ROUTE 116

MASONIC TEMPLE & NURSERY SCHOOL

HINESBURG COMMUNITY SCHOOL

SILVER STREET

EXISTING DRAINAGE SWALE

NEW SWALE FROM CURRENT CULVERT OUTLETS TO FOREBAY, SEE DETAIL.

SEWER MH
RIM 343.2'
4" IN=334.4'
8" IN=333.9'
8" OUT=333.7'

SEWER MH
RIM BURIED
8" IN=330.1'

APPROXIMATE PROPERTY LINE

NEW STONE OUTLET PAD, SEE DETAIL.

PARKING LOT PREVIOUSLY RECEIVED TREATMENT UNDER STORMWATER PERMIT 3570-9010

PROPOSED NEW SWALE

PROPOSED NEW STORM PIPE

REMOVE EXISTING HEADWALL AND EXCAVATE TO SHORTEN EXISTING PIPES BY 30'. INSTALL NEW HEADWALL.

PROPOSED REMOVAL OF EXISTING TENNIS COURT, RETURN TO GRASS.

LIMIT DISTURBANCE IN WETLAND BUFFER TO ONLY WHAT IS NECESSARY TO REMOVE COURT AND APPLY TOPSOIL AND SEED.

EXISTING SWALE INVERT 332 FT. NEW STONE OUTLET PAD, SEE DETAIL.

EXISTING RINK EDGE ELEVATION APPR. 333.6 FT.

CLASS II WETLAND 50FT BUFFER, TYP.

REUSE EXISTING SWALE WITHIN WETLAND BUFFER

CLASS II WETLAND BOUNDARY, TYP.

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REVISIONS

PROPOSED STORMWATER INFRASTRUCTURE

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10888 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

SCALE: 1" = 70'

DATE: AUGUST 30, 2023

PROJECT NO.: 20514.00003

SHEET NO.: PR-1

Plotted by: ERICHARDS On this date: Fri, 2023 September 1 — 12:48pm

Drawings: W:\CAD\DESIGN\23614.00003-DE\CAD\HCS-DRAINAGEAREAS2.DWG Layout: Tab1(1X1)7_PR2

VT ROUTE 116

MASONIC TEMPLE
&
NURSERY SCHOOL

HINESBURG
COMMUNITY
SCHOOL

SILVER STREET

DRAINAGE AREA 1:
TOTAL AREA = 2.17 ACRES
TOTAL IMP. AREA = 1.40 ACRES

DRAINAGE AREA 2:
TOTAL AREA = 3.26 ACRES
TOTAL IMP. AREA = 1.36 ACRES

DRAINAGE AREA TO
WETLAND #1

DRAINAGE AREA TO
WETLAND #2

SN-01

SN-02

EXISTING DRAINAGE
AREA TO SN-01

CLASS II WETLAND
50FT BUFFER, TYP.

CLASS II WETLAND
BOUNDARY, TYP.

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REVISIONS

PROPOSED STORMWATER DRAINAGE AREAS

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10888 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

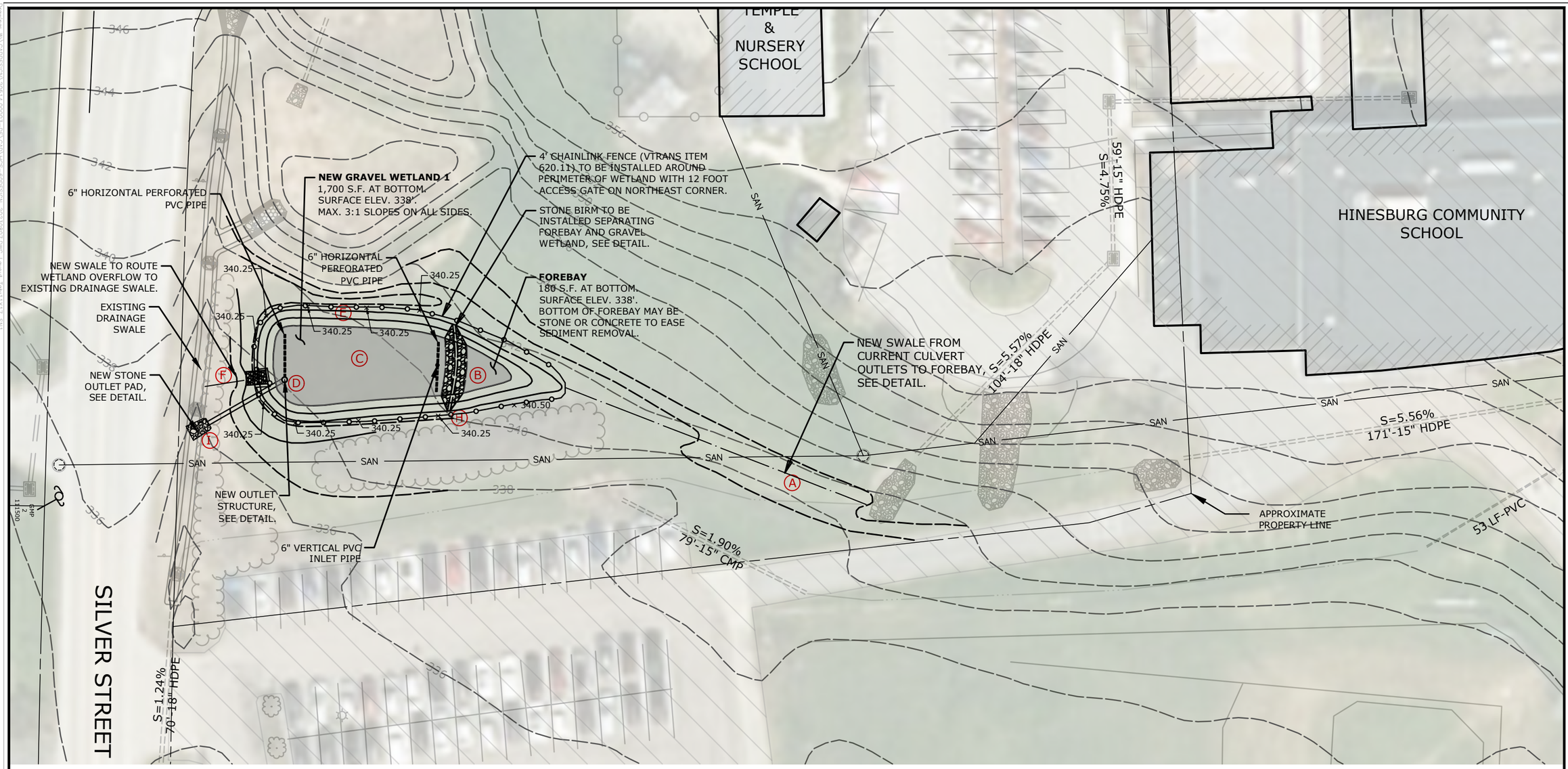
SCALE: 1:70

DATE: AUGUST 28, 2023

PROJECT NO.: 20514.00003

SHEET NO.: PR-2

Plotted by: ERICHARDS On this date: Mon, 2023 August 28 - 3:12pm



GENERAL MAINTENANCE NOTES:

1. THE STORMWATER MANAGEMENT SYSTEM SHALL BE KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
2. THE SYSTEM SHALL BE INSPECTED AT LEAST ONCE PER YEAR BETWEEN MAY 1 AND JUNE 15.
3. SEDIMENT REMOVED FROM THE SYSTEM SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
4. AN ANNUAL INSPECTION REPORT SHALL BE SUBMITTED TO THE VERMONT DEC WATERSHED MANAGEMENT DIVISION STORMWATER PROGRAM PRIOR TO JULY 15 OF EACH YEAR.
5. GENERAL INSPECTION REQUIREMENTS:
   - 5.1. IDENTIFY VEGETATED AREAS THAT REQUIRE MOWING, RESEEDING, OR OTHER MAINTENANCE.
   - 5.2. IDENTIFY ANY LOCATIONS WHERE SEDIMENT MUST BE REMOVED FROM SUMPS.
   - 5.3. IDENTIFY ANY ILLICIT DISCHARGES TO THE SYSTEM, SUCH AS DUMPING OF OIL, GAS, DETERGENTS, ETC.
   - 5.4. DESCRIBE ANY REROUTING OF STORMWATER TO AVOID THE SYSTEM.
   - 5.5. IDENTIFY ANY EROSION AT THE SITE.
   - 5.6. INSPECT STORMWATER PONDS AND SURROUNDING AREAS, POND INLETS, POND OUTLET STRUCTURES, AND POND OUTFALLS. IDENTIFY ACCUMULATED SEDIMENT, EROSION, OR OTHER NECESSARY REPAIRS.
   - 5.7. DESCRIBE ADDITIONAL MAINTENANCE OR REPAIRS NEEDED.

SPECIFIC INSPECTION AND MAINTENANCE REQUIREMENTS:

- (A) SWALE - INSPECT FOR EROSION OR SEDIMENT ACCUMULATION.
- (B) FOREBAY AREA - NOTE ANY EROSION OR SEDIMENT ACCUMULATION.
- (C) GRAVEL WETLAND CELL - NOTE ANY SEDIMENT ACCUMULATION. NOTE ANY EVIDENCE OF SHORT CIRCUITING OR ANIMAL BURROWS.
- (D) GRAVEL WETLAND OUTLET STRUCTURE - INSPECT LOW FLOW ORIFICE, OVERFLOW GRATE, STRUCTURE SUMP, PIPE CONNECTIONS, AND OVERALL STRUCTURE CONDITION. NOTE SUMP DEPTH, DEPTH OF ACCUMULATED SEDIMENT IN SUMP AND OTHER DEBRIS, AND OTHER NEEDED MAINTENANCE. SUMP TO BE CLEANED WHEN 50% FULL. CONFIRM SYSTEM IS DRAINING WITHIN 24-48 HOURS AFTER A RAIN EVENT.
- (E) GRAVEL WETLAND VEGETATION - INSPECT SLOPES FOR EROSION AND/OR BARE AREAS. NOTE AREAS IN NEED OF REPAIR AND/OR STABILIZATION. NOTE DEAD OR DYING PLANTS. REMOVE VEGETATION FROM GRAVEL WETLAND CELL BOTTOMS TO MAINTAIN NITROGEN REMOVAL PERFORMANCE.
- (F) INSPECT AREA FOR EROSION AND/OR BARE AREAS. NOTE AREAS IN NEED OF REPAIR AND/OR STABILIZATION.
- (G) OPEN INSPECTION PORTS AND NOTE STANDING WATER OR SEDIMENT ACCUMULATION IN STORAGE PIPING.
- (H) INSPECT STONE BIRM FOR ACCUMULATED SEDIMENT OR NEED FOR REPLACEMENT STONE.
- (I) INSPECT OUTFALL FOR EROSION OR ACCUMULATED SEDIMENT.

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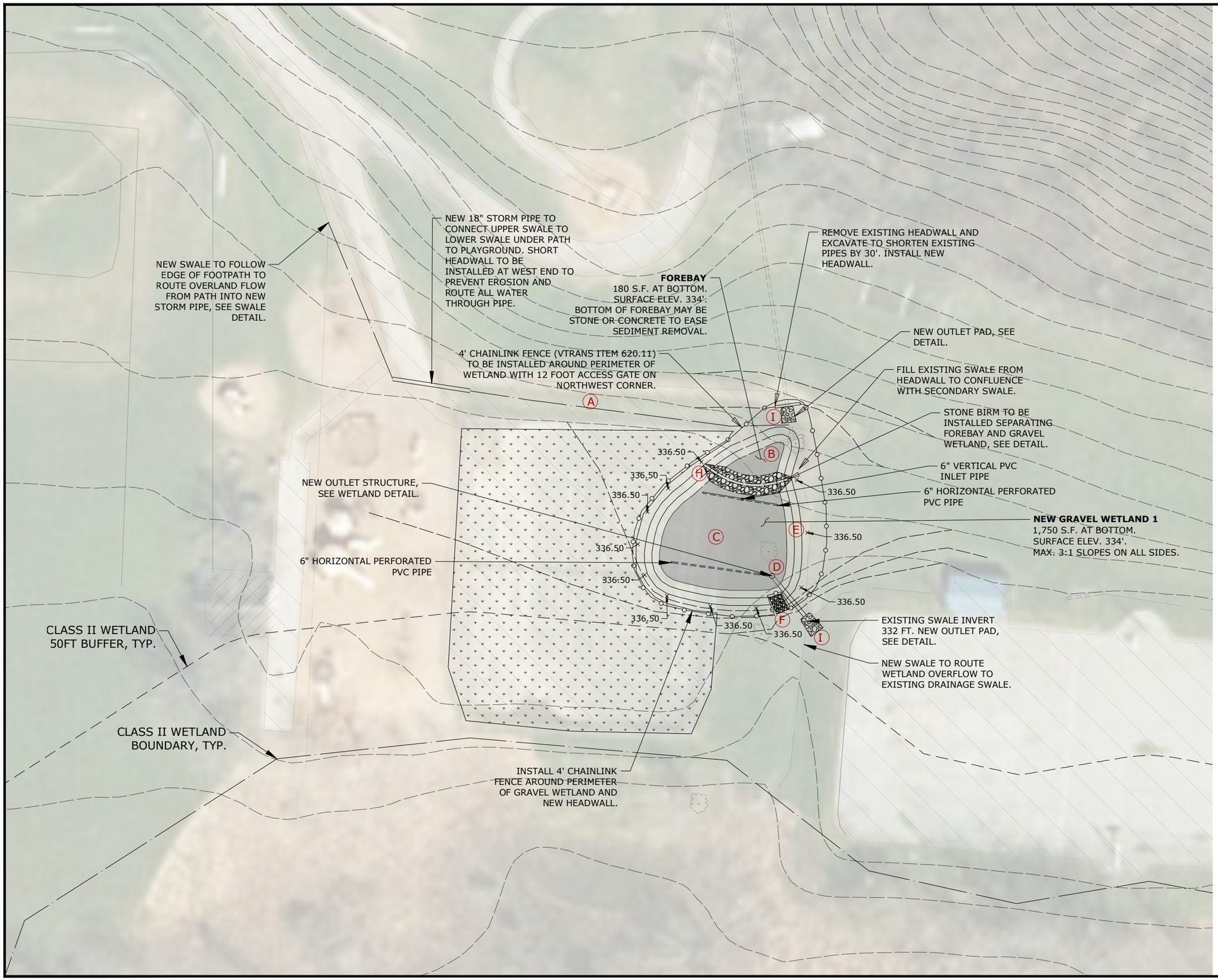
REVISIONS

PROPOSED GRAVEL WETLAND SN 1
GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10888 VERMONT ROUTE 116
HINESBURG, VERMONT

DESIGNED	DRAWN	CHECKED
--	EMR	--

SCALE: 1"=40'
DATE: NOVEMBER 17, 2023
PROJECT NO.: 20514.00003
SHEET NO.: PR-3

Drawing: W:\CAD\ESNN\2051400003-SE\CAD\ACS-60DESIGN_20230607.DWG Layout: TAB1 11X17_SN1
Plotted by: ERICHARDS On this date: Fri, 2023 November 17 - 1:40pm



GENERAL MAINTENANCE NOTES:

1. THE STORMWATER MANAGEMENT SYSTEM SHALL BE KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
2. THE SYSTEM SHALL BE INSPECTED AT LEAST ONCE PER YEAR BETWEEN MAY 1 AND JUNE 15.
3. SEDIMENT REMOVED FROM THE SYSTEM SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
4. AN ANNUAL INSPECTION REPORT SHALL BE SUBMITTED TO THE VERMONT DEC WATERSHED MANAGEMENT DIVISION STORMWATER PROGRAM PRIOR TO JULY 15 OF EACH YEAR.
5. GENERAL INSPECTION REQUIREMENTS:
   - 5.1. IDENTIFY VEGETATED AREAS THAT REQUIRE MOWING, RESEEDING, OR OTHER MAINTENANCE.
   - 5.2. IDENTIFY ANY LOCATIONS WHERE SEDIMENT MUST BE REMOVED FROM SUMPS.
   - 5.3. IDENTIFY ANY ILLICIT DISCHARGES TO THE SYSTEM, SUCH AS DUMPING OF OIL, GAS, DETERGENTS, ETC.
   - 5.4. DESCRIBE ANY REROUTING OF STORMWATER TO AVOID THE SYSTEM.
   - 5.5. IDENTIFY ANY EROSION AT THE SITE.
   - 5.6. INSPECT STORMWATER PONDS AND SURROUNDING AREAS, POND INLETS, POND OUTLET STRUCTURES, AND POND OUTFALLS. IDENTIFY ACCUMULATED SEDIMENT, EROSION, OR OTHER NECESSARY REPAIRS.
   - 5.7. DESCRIBE ADDITIONAL MAINTENANCE OR REPAIRS NEEDED.

SPECIFIC INSPECTION AND MAINTENANCE REQUIREMENTS:

- (A) SWALE - INSPECT FOR EROSION OR SEDIMENT ACCUMULATION.
- (B) FOREBAY AREA - NOTE ANY EROSION OR SEDIMENT ACCUMULATION.
- (C) GRAVEL WETLAND CELL - NOTE ANY SEDIMENT ACCUMULATION. NOTE ANY EVIDENCE OF SHORT CIRCUITING OR ANIMAL BURROWS.
- (D) GRAVEL WETLAND OUTLET STRUCTURE - INSPECT LOW FLOW ORIFICE, OVERFLOW GRATE, STRUCTURE SUMP, PIPE CONNECTIONS, AND OVERALL STRUCTURE CONDITION. NOTE SUMP DEPTH, DEPTH OF ACCUMULATED SEDIMENT IN SUMP AND OTHER DEBRIS, AND OTHER NEEDED MAINTENANCE. SUMP TO BE CLEANED WHEN 50% FULL. CONFIRM SYSTEM IS DRAINING WITHIN 24-48 HOURS AFTER A RAIN EVENT.
- (E) GRAVEL WETLAND VEGETATION - INSPECT SLOPES FOR EROSION AND/OR BARE AREAS. NOTE AREAS IN NEED OF REPAIR AND/OR STABILIZATION. NOTE DEAD OR DYING PLANTS. REMOVE VEGETATION FROM GRAVEL WETLAND CELL BOTTOMS TO MAINTAIN NITROGEN REMOVAL PERFORMANCE.
- (F) INSPECT AREA FOR EROSION AND/OR BARE AREAS. NOTE AREAS IN NEED OF REPAIR AND/OR STABILIZATION.
- (G) OPEN INSPECTION PORTS AND NOTE STANDING WATER OR SEDIMENT ACCUMULATION IN STORAGE PIPING.
- (H) INSPECT STONE BIRM FOR ACCUMULATED SEDIMENT OR NEED FOR REPLACEMENT STONE.
- (I) INSPECT OUTFALL FOR EROSION OR ACCUMULATED SEDIMENT.

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REVISIONS

PROPOSED GRAVEL WETLAND SN 2

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10886 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

SCALE: 1"=40'

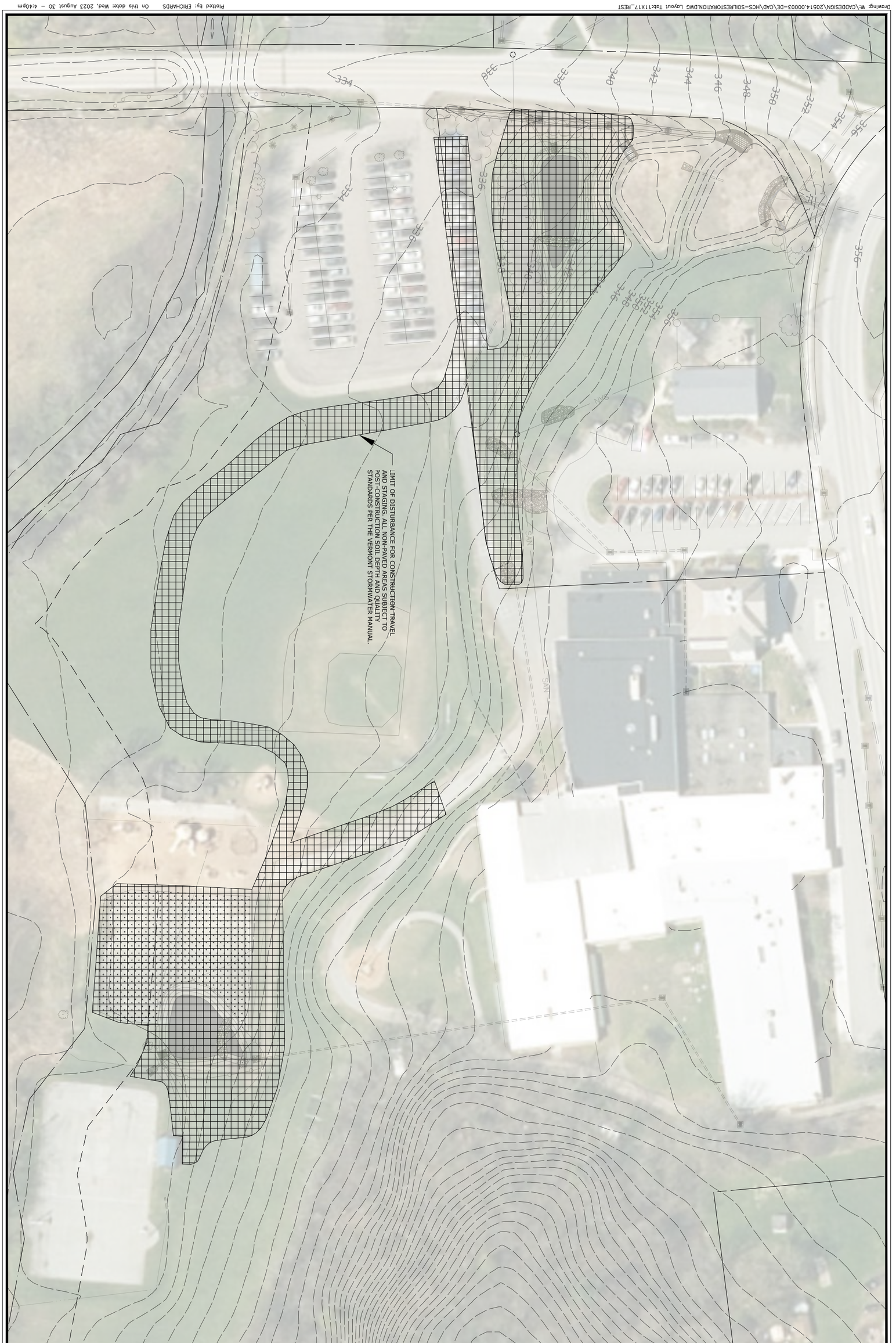
DATE: NOVEMBER 17, 2023

PROJECT NO.: 20514.00003

SHEET NO.: PR-4

Drawing: W:\CAD\DESIGN\2051400003-DE\CAD\CIVIL-EDDESIGN_20230907.DWG Layout: TAB11X17_SN2
Plotted by: ERICHARDS On this date: Fri, 2023 November 17 - 1:41pm

Drawing: M:\CADDESIGN\20514.00003-DE\CAD\HCS-SOILRESTORATION.DWG Layout Tab:11X17_RESTPlotted by: ERICHARDS On this date: Wed, 2023 August 30 - 4:40pm



CONSTRUCTION LIMITS AND SOIL RESTORATION

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL

10888 VERMONT ROUTE 116
HINESBURG, VERMONT

SHEET NO: **PR-5**

PROJECT NO: 20514.00003

DATE: AUGUST 30 2023

SCALE: 1" = 70'

DESIGNED: --
DRAWN: EMR
CHECKED: --

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Drawing: W:\CAD\DESIGN\20514.00003-DE\CAD\HGS-GDDESIGN_20231007.DWG Layout Tab:11X17_NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR AND HIS/HER JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS AND PERMIT REQUIREMENTS.
2. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR DETERMINATION. THE CONTRACTOR IS EXPECTED TO PROVIDE FIELD ENGINEERING SERVICES DURING CONSTRUCTION TO ESTABLISH AND RECORD GRADES, LINES, AND ELEVATIONS. EXACT ELEVATIONS, SLOPES, AND CHANNEL SHAPES WILL BE APPROVED IN FIELD BY THE PROJECT ENGINEER.
3. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE" AT 1-888-DIG-SAFE (344-7233). THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DISTURB EXISTING UTILITIES.
4. CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS AND REGULATIONS THROUGHOUT DURATION OF PROJECT. COMPLIANCE WITH ALL CONDITIONS OF APPLICABLE AND SECURED PERMITS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE. COPIES OF ALL PERMITS AND AUTHORIZATIONS SHALL BE MAINTAINED ON THE PROJECT SITE BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
5. ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, WORKING HOURS, AND LIMITS OF CLEARING SHALL BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY TOWN, AND PROJECT ENGINEER.
6. ALL EQUIPMENT USED IN OR NEAR TO THE WATER SHALL HAVE TIGHT SEALS, AND SHALL NOT POLLUTE THE WATER. NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT WILL BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN, APPROPRIATE AUTHORITIES AND PROJECT ENGINEER.
7. THE PROJECT SITE IS SUBJECT TO FLOODING. THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND STABILIZE THE CONSTRUCTION SITE AND REMOVE EQUIPMENT FROM FLOOD PRONE AREAS IN THE EVENT OF FLOOD WARNINGS. ALL WORK SHALL BE PERFORMED DURING LOW WATER. A FLOOD CONTINGENCY AND EMERGENCY ACTION PLAN SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
8. THERE SHALL BE NO CLAIMS FOR EXTRA COMPENSATION DUE TO DELAYS IN WATER CONTROL ASSOCIATED WITH HIGH WATER LEVELS FROM NATURAL EVENTS SUCH AS FLOODS.
9. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD, AND CONSTRUCTION DEBRIS.
10. TRAFFIC CONTROL IF NECESSARY MUST CONFORM TO GUIDELINES SET IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", MOST CURRENT EDITION, AS PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
11. ANY MATERIAL EXPORTED OFF-SITE SHALL BE LEGALLY DISPOSED OF IN AN UPLAND LOCATION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR FINDING A SUITABLE RECIPIENT OF THE MATERIAL, GAINING REGULATORY APPROVAL FOR EXPORTED MATERIAL PLACEMENT IF NEEDED, AND HAULING. THE TOWN MAY BE INTERESTED IN RECEIVING THE FILL. THE CONTRACTOR SHALL COORDINATE MATERIAL EXPORT WITH THE TOWN.
12. ALL AREAS SURROUNDING THE PROJECT SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED UPON COMPLETION OF CONSTRUCTION. THE RESTORATION OF THE SITE IS SUBJECT TO APPROVAL BY THE TOWN AND THE PROJECT ENGINEER.
13. FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PARTICIPATE IN A FINAL SITE INSPECTION WITH THE TOWN AND PROJECT ENGINEER FOR THE PURPOSE OF VERIFYING THAT THE PROJECT HAS BEEN COMPLETED ACCORDING TO THE CONSTRUCTION PLANS, SPECIFICATIONS AND THE TERMS AND CONDITIONS OF THE CONTRACT.

CONSTRUCTION NOTES

1. THE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED AS PART OF THE PROJECT SHALL BE IMPLEMENTED AND MAINTAINED ACCORDING TO "THE LOW RISK SITE HANDBOOK FOR EROSION PROTECTION AND SEDIMENT CONTROL" GUIDANCE DOCUMENT FROM THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WHERE APPLICABLE IN CONSULTATION WITH PROJECT ENGINEER.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. CLEARING OF VEGETATION FOR CONSTRUCTION ACCESS SHOULD BE MINIMIZED.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR WILL VERIFY THE MAINTENANCE WEEKLY AND AFTER RAIN EVENTS AND REPORT TO THE PROJECT ENGINEER.
5. THE PROJECT ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF EXCESSIVE SEDIMENT EROSION TAKES PLACE, IF SIGNIFICANT FINE GRAIN SEDIMENT IS ENCOUNTERED OR IF POTENTIALLY CONTAMINATED SEDIMENTS ARE ENCOUNTERED (OILY, DARK COLOR, CHEMICAL ODOR).
6. PLAN AND PERFORM WORK DURING LOW FLOW PERIODS.
7. WORK SHALL PROGRESS IN STAGES TO MINIMIZE EXPOSED AREAS AND DISTURBED EARTH. NO MORE THAN TWO (2) ACRES OF DISTURBED EARTH WILL BE ALLOWED AT ANY ONE TIME.
8. NO DISTURBED EARTH SHALL REMAIN EXPOSED FOR MORE THAN SEVEN (7) CONSECUTIVE DAYS WITHOUT APPLYING TEMPORARY OR PERMANENT STABILIZATION MEASURES.
9. EXPOSED AREAS SHALL BE SEEDED AND MULCHED OR PROTECTED WITH EROSION CONTROL MATTING WITHIN 48 HOURS OF ACHIEVING FINAL GRADE.
10. STOCKPILE AREAS TO BE ENCLOSED BY SILT FENCING.
11. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTLER, AND OTHER MATERIAL SUCH THAT NONE OF THESE MATERIAL ENTER WATERS OR WETLANDS.
12. PUMPING IS NOT EXPECTED TO BE NECESSARY FOR THIS PROJECT. TEMPORARY ISOLATION BERMS WILL BE USED TO SEPARATE THE WORK AREA FROM NORMAL LOW FLOW. SHOULD THE CONTRACTOR FEEL PUMPING IS BENEFICIAL, PRIOR APPROVAL WILL BE REQUIRED, AND PUMPING WILL BE PERFORMED AT THE CONTRACTORS EXPENSE. DIRTY WATER SHOULD BE DISCHARGED TO A DEWATERING DISCHARGE BASING OR OTHER APPROVED DEVISE APPROVED BY THE PROJECT ENGINEER.

SITE RESTORATION NOTES

1. PRESERVE EXISTING NON-INVASIVE VEGETATION TO THE EXTENT POSSIBLE.
2. POST CONSTRUCTION THE SOIL MUST BE AMENDED TO MEET THE SOIL DEPTH AND QUALITY STANDARDS FOUND IN THE 2017 VERMONT STORMWATER MANUAL. THE FOLLOWING OPTIONS EXIST:
   - 2.1. OPTION 1: LEAVE THE SOIL UNDISTURBED AND PROTECTED FROM COMPACTION DURING CONSTRUCTION
   - 2.2. OPTION 2: AMEND THE SOIL BY SCARIFYING OR TILLING TO A DEPTH OF 4 INCHES, THEN PLACING 1 INCH OF COMPOSTED MATERIAL WITH 40-65% ORGANIC MATTER AND TILL INTO 3 INCHES OF SOIL, OR SOME EQUIVALENT THAT PRODUCES 4 INCHES OF SETTLED SOIL WITH 4% ORGANIC CONTENT. THEN RAKE AND WATER TO ACHIEVE 85% MAXIMUM DRY DENSITY
   - 2.3. OPTION 3: REMOVE AND STOCKPILE EXISTING TOPSOIL AT LEAST 50 FEET FROM WETLANDS, FLOODPLAINS OR SURFACE WATER. WHEN SOILS HAVE C:N RATIO BELOW 25:1 OR IT IS OTHERWISE NECESSARY, AMEND THE SOIL WITH COMPOST TO ACHIEVE THE DESIRED ORGANIC MATTER CONTENT.
   - 2.4. OPTION 4: IMPORT TOPSOILS OR COMPOST MATERIALS FOR MIXING TO ACHIEVE SUFFICIENT ORGANIC MATTER CONTENT AND DEPTH.
3. IF COMPOST IS USED TO ACHIEVE SOIL QUALITY STANDARDS, COMPOST SHALL MEET THE DEFINITION OF "COMPOST" AND/OR MEET THE CONTAMINANT STANDARDS IN THE VERMONT SOLID WASTE MANAGEMENT RULES. IF EXCEPTIONAL QUALITY BIOSOLIDS ARE USED AS A SOIL AMENDMENT, THEY SHALL COMPRISE NO MORE THAN 35% OF THE TOTAL VOLUME OF SOIL AND BE WELL MIXED PRIOR TO APPLICATION.
4. ONCE ESTABLISHED, TREATED SOIL QUALITY AREAS MUST BE PROTECTED FROM COMPACTION AND TESTED TO CONFIRM THE STANDARD WAS MET. VERIFICATION OF SOIL QUALITY AND DEPTH INCLUDES 20 8-INCH DEEP TEST HOLES DUG AT LEAST 50 FEET APART AND EXCAVATED USING A SHOVEL DRIVEN ONLY BY THE INSPECTOR'S WEIGHT. USE SOIL STANDARD TESTING LOCATIONS SHOWN ON PR-1.
5. AREAS DESIGNATED FOR SEED MIX APPLICATION SHALL BE RESTORED USING BOTH:
   - 5.1. THE SEED MIXES LISTED IN THE VERMONT NATIVE SEED MIX LIST AS PRODUCED BY VERMONT WETLAND PLANT SUPPLY LLC, ORWELL, VT 802-948-2553 OR APPROVED EQUAL.
   - 5.2. FAST GROWING ANNUAL SUCH AS WINTER RYE, BUCKWHEAT, OR OATS. APPLICATION RATE VARIES BY SPECIES CHOSEN.
6. AREAS DESIGNATED FOR LAWN AREA SEED MIX APPLICATION SHALL BE RESTORED USING THE VERMONT WET MEADOW AND DETENTION BASIN SEED MIX AS PRODUCED BY VERMONT WETLAND PLANT SUPPLY LLC, ORWELL, VT 802-948-2553 OR APPROVED EQUAL. APPLICATION RATE = 36 LBS PER ACRE.
7. APPLY 2 INCHES STRAW MULCH OVER ALL SEEDED AREAS.
8. ANY DISTURBED SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKET PER DIRECTION OF PROJECT ENGINEER.
9. REMOVE TEMPORARY ACCESS ROADS AND TEMPORARY STOCKPILE AREAS.
10. RESTORE ALL ACCESS ROUTES USED DURING CONSTRUCTION TO PRE-EXISTING CONDITIONS, FILL RUTS CREATED BY EQUIPMENT TO RESTORE GRADE AND RE-VEGETATE AS NEEDED.
11. CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO THE ROADS, SIDEWALKS, AND CURBS IF DAMAGED BY CONSTRUCTION ACTIVITIES.
12. RESTORE ALL OTHER DISTURBED AREAS WITHIN THE PROJECT SITE SUCH AS TEMPORARY ACCESS ROADS, STOCKPILE AREAS, STAGING AREAS, AND SURPLUS DISPOSAL AREAS TO ORIGINAL OR IMPROVED CONDITION.

SOIL RESTORATION TESTING

ONCE SOIL QUALITY HAS BEEN RESTORED IN ACCORDANCE WITH THE SOIL RESTORATION METHODS OUTLINED, AND PRIOR TO PLANTING THE CONTRACTOR SHALL PERFORM FIELD TESTING OF RESTORED SOIL QUALITY. TESTING SHALL BE IN LOCATIONS AS APPROVED BY THE ENGINEER. A MINIMUM OF NINE TEST HOLES PER ACRE SHALL BE DUB. TESTING SHALL BE PERFORMED USING SPADE SHOVEL DRIVEN USING SOLELY BY THE WEIGHT OF THE INSPECTOR. CONTRACTOR SHALL PREPARE REPORTING FORM THAT INCLUDES THE FOLLOWING INFORMATION.

1. DATE AND TIME OF TEST,
2. PERSONS PERFORMING AND WITNESSING TESTING,
3. LOCATION OF TEST,
4. OBSERVATIONS SHALL NOTE: EASE OF DRIVING SPADE (DIFFICULT, MODERATE, EASY) VERIFICATIONS OF SOIL AMENDMENTS, NOTE OF MATERIAL THICKNESS, TEXTURE AND OTHER NOTABLE FEATURES.

TESTS THAT INDICATE DIFFICULTY IN DRIVING A SPADE, LACK OF SOIL AMENDMENTS, AND TEXTURES NOT CONSISTENT WITH RESTORATION PRACTICE OPTIONS NOTED ABOVE SHALL HAVE AN ADDITIONAL TEST PERFORMED WITHIN 50 FEET OF THE TEST SHOWING "POOR" RESULTS. IF THREE CONSECUTIVE TESTS SHOWING POOR RESULTS ARE OBTAINED THE AREA TESTED SHALL BE SUBJECT TO REWORK IN ACCORDANCE WITH RESTORATION PRACTICES NOTED AND SUBSEQUENTLY RETESTED.

ON COMPLETION OF SUCCESSFUL TESTING, SURFACES SHALL BE PLANTED WITH SEED AND STABILIZED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.

P-TESTING IS REQUIRED FOR GRAVEL WETLAND SOIL LAYERS. FINAL MIXES MUST HAVE A PHOSPHORUS SATURATION RATIO (PSR) LESS THAN OR EQUAL TO 0.10. PSR IS TO BE DETERMINED USING THE FOLLOWING PROTOCOL:

1. SAMPLES ARE TO BE AIR DRIED AND SIEVED THROUGH 2 MM PRIOR TO TESTING.
2. AIR-DRIED, SIEVED SOIL SAMPLES ARE THEN TO BE EXTRACTED WITH THE MEHLICH-3 SOLUTION (0.2 M CH_3COOH + 0.25 M NH_4NO_3 + 0.015 M NH_4F + 0.013 M HNO_3 + 0.001 M EDTA) BY SHAKING A SOIL-SOLUTION SUSPENSION FOR 5 MINUTES AT A 1:10 RATIO (SOIL MASS IN GRAMS: SOIL SOLUTION VOLUME IN ML), FOLLOWED BY FILTERING TO REMOVE PARTICLES (PORE SIZE OF 2 µm IS RECOMMENDED, MAX PORE SIZE = 8 µm).
3. EXTRACTS FROM THE MEHLICH-3 PROCEDURE ARE TO BE ANALYZED FOR P, Fe, AND Al BY ICP-OES.
4. THE PHOSPHORUS SATURATION RATIO (PSR) IS THEN CALCULATED AS FOLLOWS:

$$PSR = \left(\frac{PM3}{31}\right)/[(Fe_{M3}/56)+(Al_{M3}/27)]$$

where:

- PM3 = MEHLICH-3 P IN MG P PER KG DRY SOIL
- FeM3 = MEHLICH-3 Fe IN MG Fe PER KG DRY SOIL
- AlM3 = MEHLICH-3 Al IN MG Al PER KG DRY SOIL

SOIL SAMPLES FOR P, Fe AND Al ANALYSIS VIA MEHLICH-3 EXTRACTION MAY BE SUBMITTED TO THE UNIVERSITY OF VERMONT AGRICULTURAL AND ENVIRONMENTAL TESTING LABORATORY OR APPROVED EQUAL FOR ANALYSIS.

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REVISIONS

1/3/2024	EMR	

GENERAL NOTES

GREEN SCHOOLS INITIATIVE
HINESBURG COMMUNITY SCHOOL
10888 VERMONT ROUTE 116
HINESBURG, VERMONT

--	EMR	--
DESIGNED	DRAWN	CHECKED

NA (SCALE)

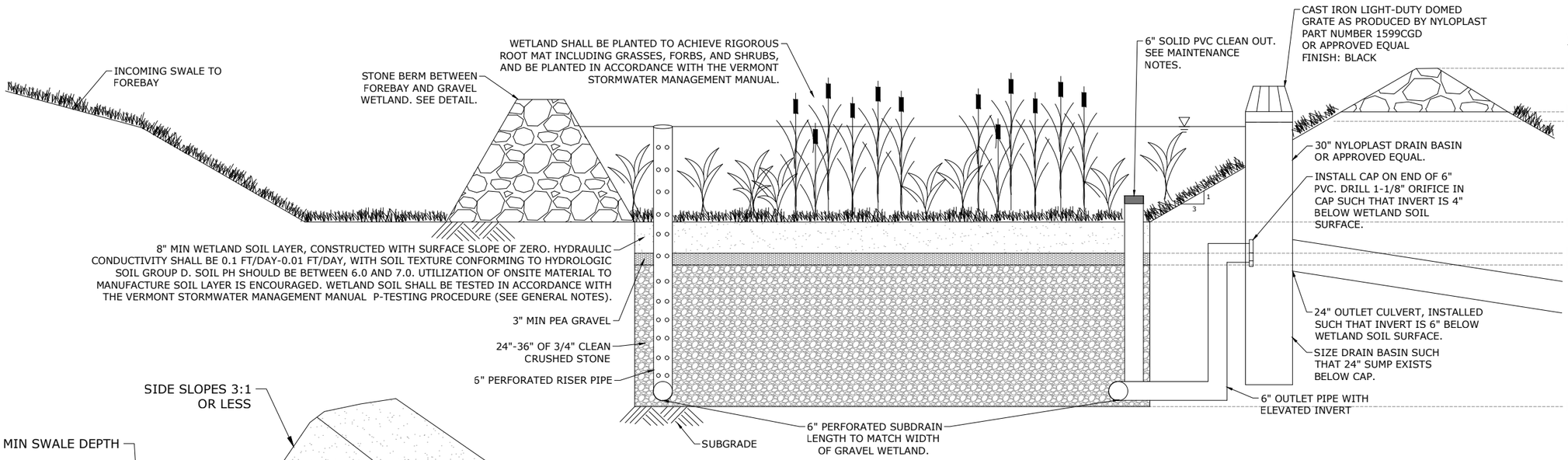
NOVEMBER 17, 2023 (DATE)

20514.00003 (PROJECT NO.)

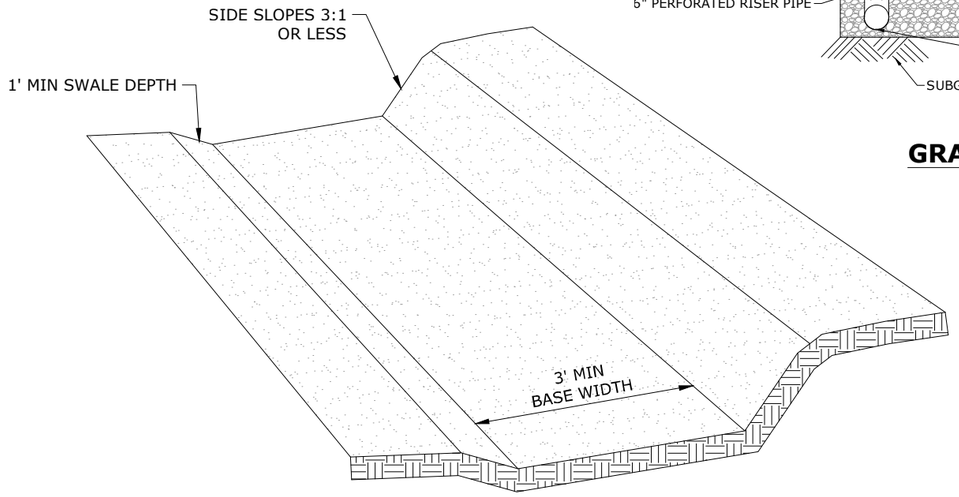
N-1 (SHEET NO.)

Plotted by: ETHOMPSON On this date: Wed, 2024 January 3 - 9:55am

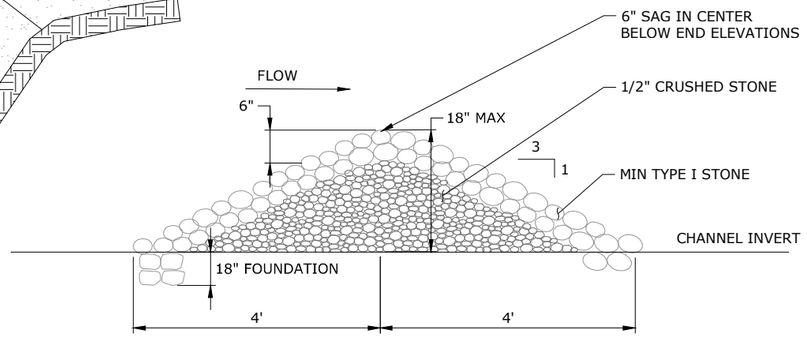
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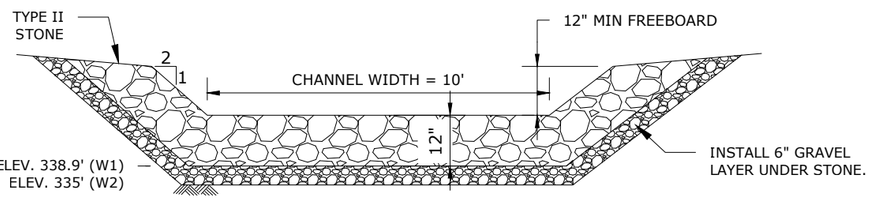
GRAVEL WETLAND SECTION VIEW
NOT TO SCALE



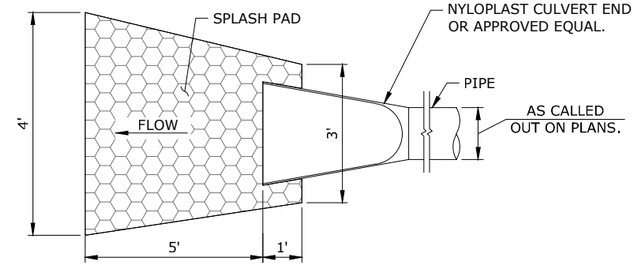
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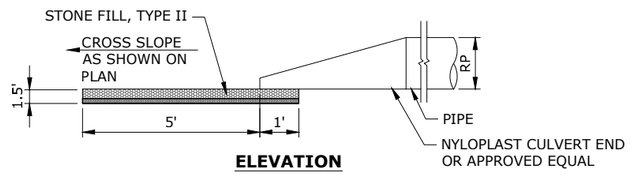
STONE BERM
NOT TO SCALE



EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



PLAN



ELEVATION

FLARED END WITH RIP RAP SPLASH PAD
NOT TO SCALE

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REVISIONS

GRAVEL WETLAND DETAILS
GREEN SCHOOLS INITIATIVE
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10888 VERMONT ROUTE 116
HINESBURG, VERMONT

-- DESIGNED	EMR DRAWN	-- CHECKED

SCALE: X"=X'
DATE: NOVEMBER 17, 2023
PROJECT NO.: 20514.00003
SHEET NO.: DET-1

Plotted by: ERICHARDS On this date: Fri, 2023 November 17 - 1:42pm