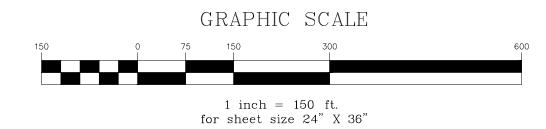


208 Flynn Avenue, Suite 2A, Burlington, VT 05401 • Tel: 802-863-6225 85 Mechanic Street, Suite E2-3, Lebanon, NH 03766 • Tel: 603-442-9333 414 Union Street, Schenectady, NY 12305 • Tel: 518-630-9614

Attachment 5: Plans

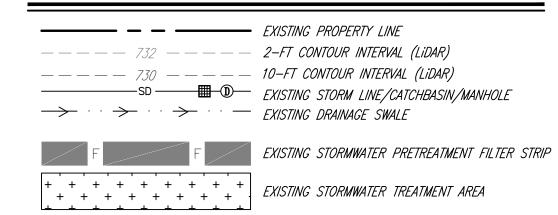


EXISTING CONDITIONS NOTES

- EXISTING PHYSICAL FEATURES AND TOPOGRAPHY SHOWN HERE ARE BASED ON GIS DATA AND MAPPING PROVIDED BY THE OWNER AND VT ANR AS RELATED TO PRIOR STORMWATER PERMITS FOR THE SITE.
 UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE PREMISES.
 NORTH ORIENTATION IS REFERENCED TO APPROXIMATE VERMONT GRID NORTH.

- 4. EXISTING UTILITIES SHOWN ON PLANS WERE TAKEN FROM FIELD OBSERVATIONS OF VISIBLE UTILITIES AND PAINTED MARKINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND. THE CONTRACTOR SHALL CONTACT DIG SAFE (811 or 888-344-7233) A MINIMUM OF 48 HOURS, BUT NOT INCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO ANY CONSTRUCTION.

EXISTING CONDITIONS LEGEND



EXISTING DRAINAGE LEGEND

<u>Duxbury</u>	
$\times \times \times \times \times$	

NRCS SOILS BOUNDARY & DESIGNATION HSG A SOILS

HSG A/D & C/D SOILS

SURFACE WATER EXISTING DRAINAGE AREA

EXISTING IMPERVIOUS SURFACE

Checked By: AS NOTED 07/25/2023

South Unified Union School District Site Stormwater Permitting Project

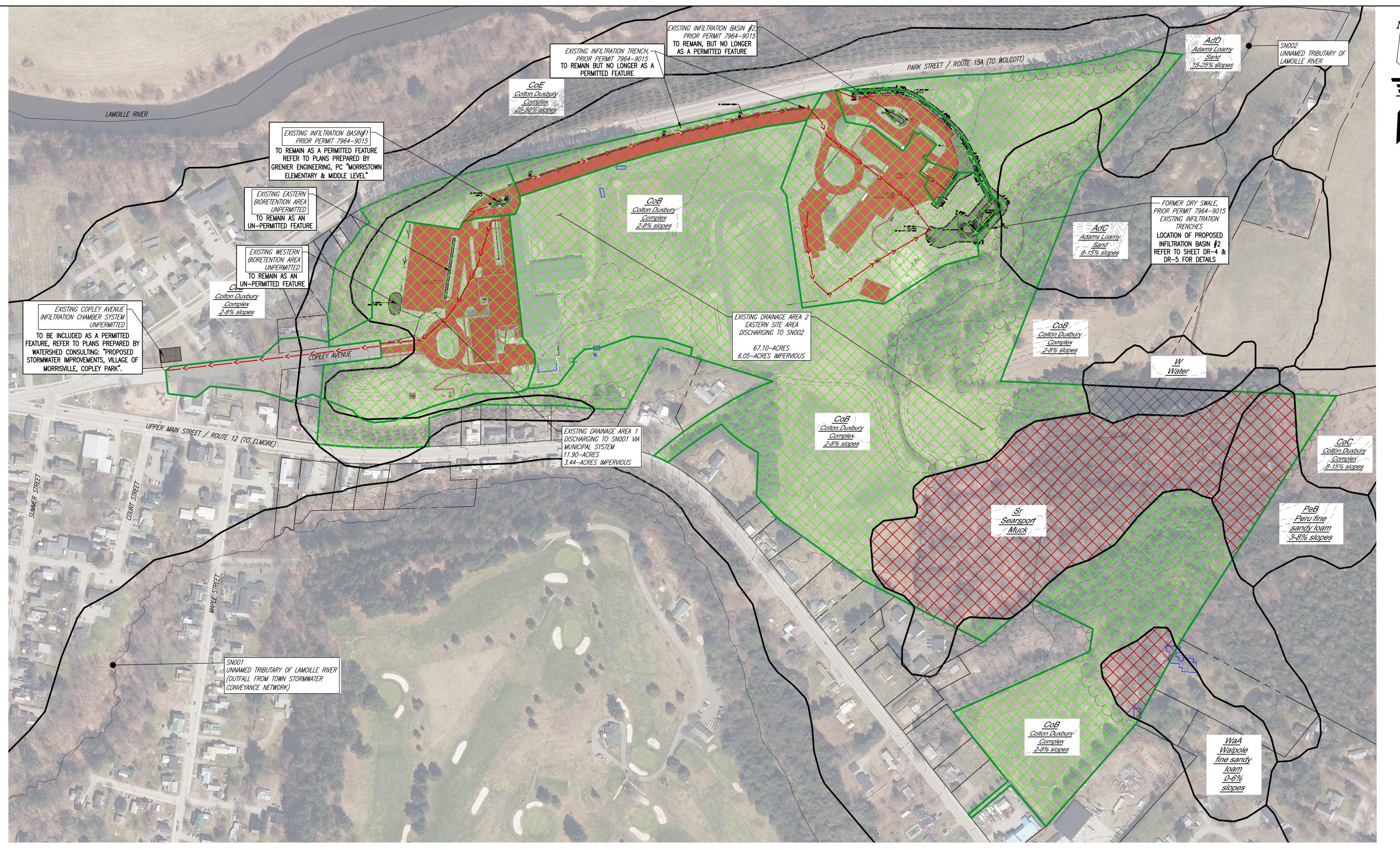
Lamoille 3-acre S

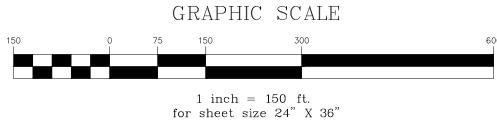
EXISTING DRAINAGE AREA MAP Peoples Academy/Morrisville Elementary

EV Project #

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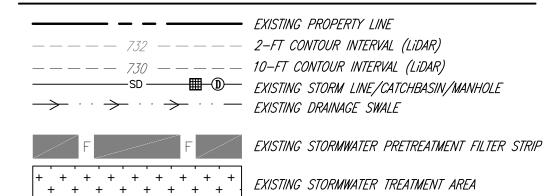




EXISTING CONDITIONS NOTES

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- LOCATED UPON OR ADJACENT TO THE PREMISES.
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EXISTING CONDITIONS LEGEND



NRCS SOILS BOUNDARY & DESIGNATION HYDRAULIC LENGTH

PROPOSED DRAINAGE LEGEND

PROPOSED DRAINAGE AREA EXISTING ON SITE IMPERVIOUS SURFACE TREATED ON SITE IMPERVIOUS SURFACE

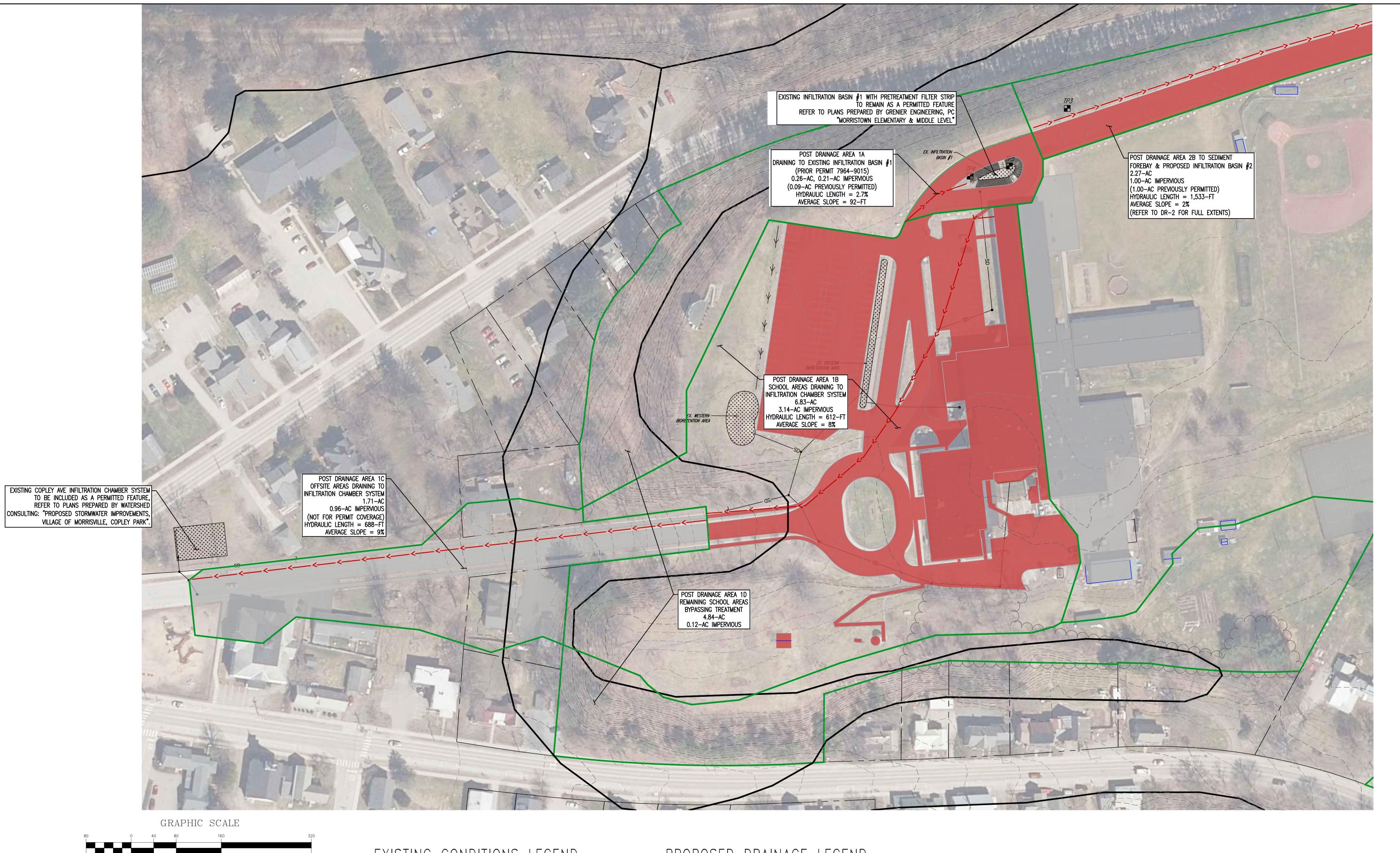
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South Unified Union School District Site Stormwater Permitting Project

Lamoille 3-acre S

PROPOSED DRAINAGE AREA MAP Peoples Academy/Morrisville Elementary

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for sheet size 24" X 36" EXISTING CONDITIONS NOTES

1. EXISTING PHYSICAL FEATURES AND TOPOGRAPHY SHOWN HERE ARE BASED ON GIS DATA AND MAPPING PROVIDED BY THE OWNER AND VT ANR AS RELATED TO PRIOR STORMWATER PERMITS FOR THE SITE.

2. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES

1 inch = 80 ft.

LOCATED UPON OR ADJACENT TO THE PREMISES.

3. NORTH ORIENTATION IS REFERENCED TO APPROXIMATE VERMONT GRID NORTH. 4. EXISTING UTILITIES SHOWN ON PLANS WERE TAKEN FROM FIELD OBSERVATIONS OF VISIBLE UTILITIES AND PAINTED MARKINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND.

THE CONTRACTOR SHALL CONTACT DIG SAFE (811 or 888-344-7233) A MINIMUM

OF 48 HOURS, BUT NOT INCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS,

PRIOR TO ANY CONSTRUCTION.

EXISTING CONDITIONS LEGEND

----- EXISTING PROPERTY LINE ---- 732 ---- 2-FT CONTOUR INTERVAL (LiDAR) ---- 730 ---- 10-FT CONTOUR INTERVAL (LiDAR) _______________________EXISTING STORM LINE/CATCHBASIN/MANHOLE · — EXISTING DRAINAGE SWALE EXISTING STORMWATER PRETREATMENT FILTER STRIP

+ + + + + + + + + + + + + EXISTING STORMWATER TREATMENT AREA

PROPOSED DRAINAGE LEGEND

NRCS SOILS BOUNDARY & DESIGNATION PROPOSED DRAINAGE AREA EXISTING ON SITE IMPERVIOUS SURFACE TREATED ON SITE IMPERVIOUS SURFACE HYDRAULIC LENGTH

Checked By: AS NOTED 07/25/2023

EV Project #

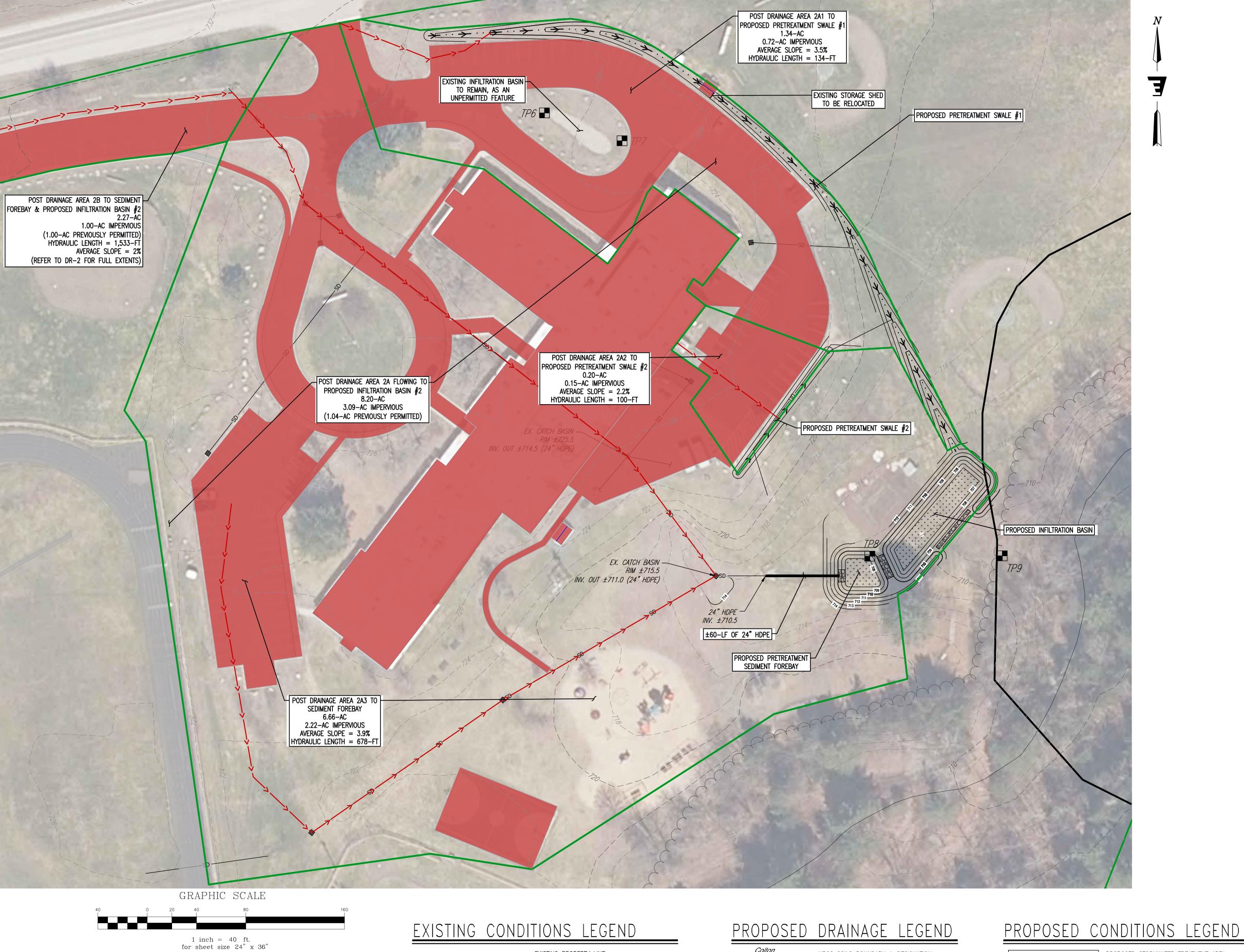
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Peoples Academy/Morrisville Elementary

Lamoille South Unified Union School District

3-acre Site Stormwater Permitting Project

DR-3



EXISTING CONDITIONS NOTES

- EXISTING PHYSICAL FEATURES AND TOPOGRAPHY SHOWN HERE ARE BASED ON GIS DATA AND MAPPING PROVIDED BY THE OWNER AND VT ANR AS RELATED TO PRIOR STORMWATER PERMITS FOR THE SITE.

 UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE PREMISES.

 ARRENOWLATER APPROXIMATE APP

- 3. NORTH ORIENTATION IS REFERENCED TO APPROXIMATE VERMONT GRID NORTH. 4. EXISTING UTILITIES SHOWN ON PLANS WERE TAKEN FROM FIELD OBSERVATIONS OF VISIBLE UTILITIES AND PAINTED MARKINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND. THE CONTRACTOR SHALL CONTACT DIG SAFE (811 or 888-344-7233) A MINIMUM OF 48 HOURS, BUT NOT INCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO ANY CONSTRUCTION.

EXISTING PROPERTY LINE ———— 732 ———— **2—FT CONTOUR INTERVAL (LiDAR)** — — — — 10—FT CONTOUR INTERVAL (LiDAR) -SD - EXISTING STORM LINE/CATCHBASIN/MANHOLE · — EXISTING DRAINAGE SWALE EXISTING STORMWATER PRETREATMENT FILTER STRIP

+ + + + + + + + + + + + + + EXISTING STORMWATER TREATMENT AREA

<u>Duxbury</u>

NRCS SOILS BOUNDARY & DESIGNATION PROPOSED DRAINAGE AREA EXISTING ON SITE IMPERVIOUS SURFACE TREATED ON SITE IMPERVIOUS SURFACE HYDRAULIC LENGTH

| + + + + + + + + | PROPOSED STORMWATER TREATMENT AREA |
|---|------------------------------------|
| 793 ——— | PROPOSED 1-FT CONTOUR INTERVAL |
| 790 | PROPOSED 5-FT CONTOUR INTERVAL |
| + 769.0 | PROPOSED SPOT GRADE ELEVATION |
| $\longrightarrow \cdots \longrightarrow \cdots$ | PROPOSED SWALE |
| SD | PROPOSED STORM LINE |

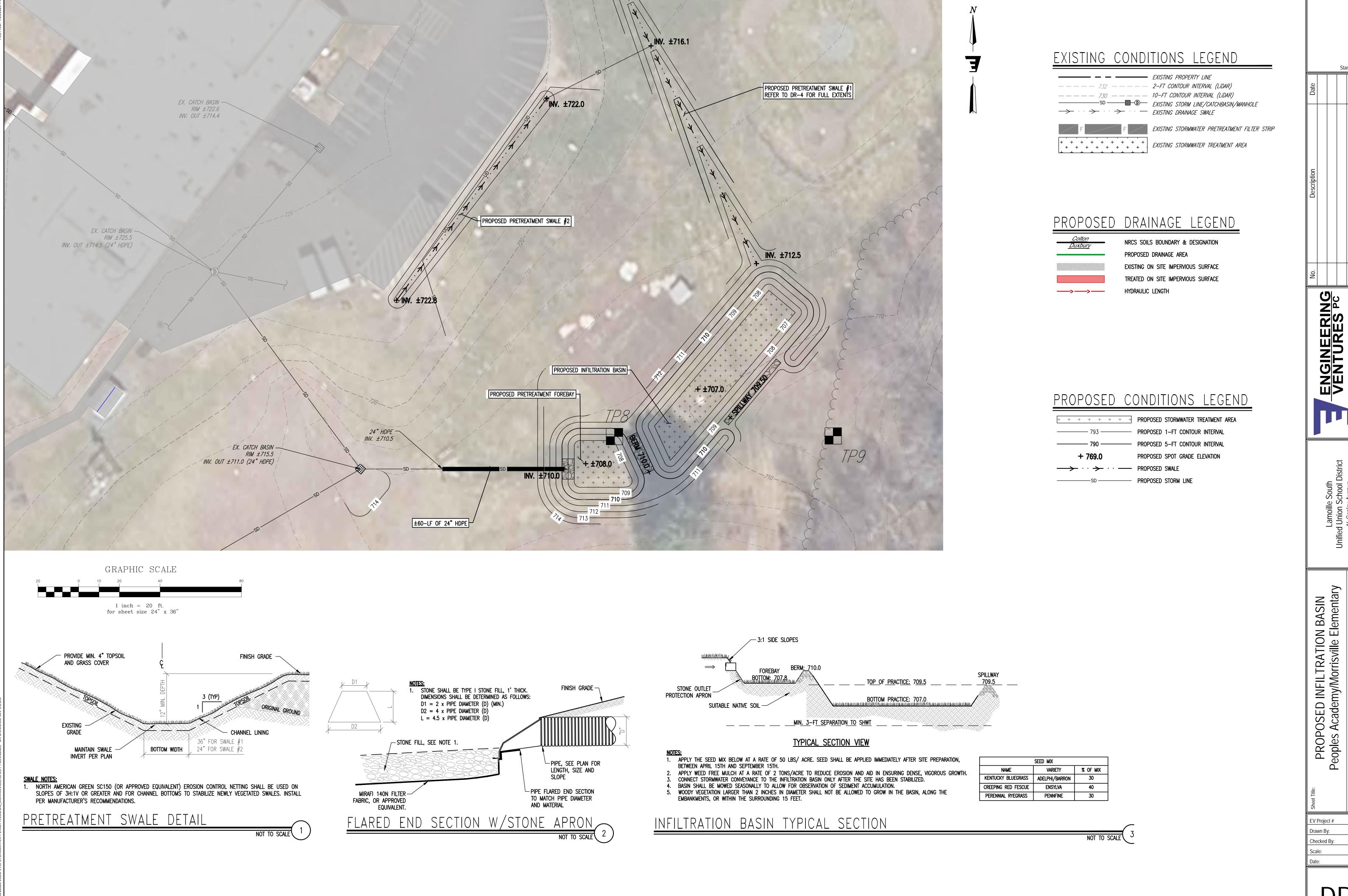
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Lamoille South Unified Union School District 3-acre Site Stormwater Permitting Project

SN002 Drainage Area Map Peoples Academy/Morrisville Elementary

EV Project # Checked By: AS NOTED 07/25/2023



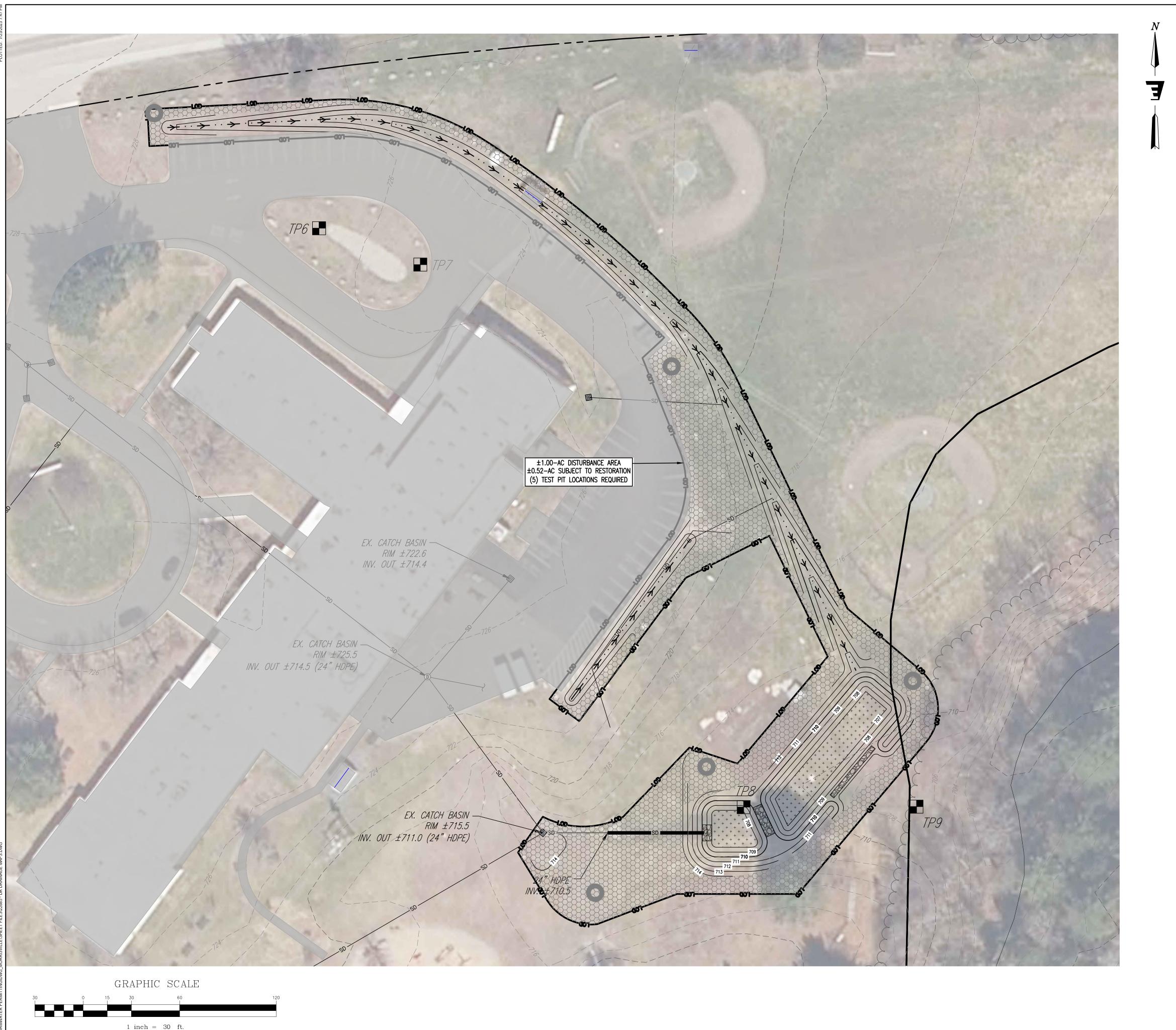
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ENGINEERING VENTURES PC

Lamoille South Unified Union School District 3-acre Site Stormwater Permitting Project

Checked By: AS NOTED 07/25/2023

DR-5



for sheet size 24" x 36"



+ + + + + + + + + PROPOSED STORMWATER TREATMENT AREA 793 — PROPOSED 1-FT CONTOUR INTERVAL PROPOSED 5-FT CONTOUR INTERVAL PROPOSED SPOT GRADE ELEVATION → · · → · · — PROPOSED SWALE ----- PROPOSED STORM LINE

SOILS MANAGEMENT NOTES

FOLLOWING ROUGH SITE GRADING, INSTALLATION OF UTILITIES AND INFRASTRUCTURE; AND PRIOR TO PLANNING OF VEGETATIVE COVER, CONTRACTOR SHALL RESTORE SOIL QUALITY TO DISTURBED SOILS THAT WILL NOT BE COVERED BY IMPERVIOUS SURFACES, INCORPORATED INTO STRUCTURAL STORMWATER TREATMENT PRACTICES, ATHLETIC FIELDS, OR ENGINEERED STRUCTURAL FILL USING ONE OF THE FOLLOWING METHODS. CONTRACTOR SHALL PROVIDE NOTICE TO ENGINEER/OWNER PRIOR TO CONSTRUCTION OF SELECTED METHOD.

AREAS EXEMPT FROM THIS STANDARD INCLUDE UNDISTURBED AREAS, SLOPES GREATER THAN 33%, IMPERVIOUS AREAS AND PROPOSED STANDARD TREATMENT PRACTICES.

OPTION 1: AMEND EXISTING SITE TOPSOIL OR SUBSOIL IN PLACE

- SCARIFY OR TILL SUBSOILS TO 4-INCH DEPTH OR TO DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 8-INCHES OF UNCOMPACTED SOIL AFTER CALCULATED AMOUNT OF AMENDMENT IS ADDED. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION.
- AMEND SOIL TO MEET ORGANIC CONTENT REQUIREMENT:
- •• PRE APPROVED RATE: PLACE 1-INCH OF COMPOSTED MATERIAL WITH AN ORGANIC MATTER CONTENT BETWEEN 40 AND 60% AND ROTOTILL INTO 3-INCHES OR SOIL, OR •• CALCULATED RATE: PLACE CALCULATED AMOUNT OF COMPOSTED MATERIAL OR APPROVED ORGANIC MATERIAL AND ROTOTILL INTO DEPTH OF SOIL NEEDED TO ACHIEVE 4-INCHES OF SETTLED SOIL AT 4% ORGANIC CONTENT.
- RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS LARGER THAN 2-INCHES IN DIAMETER WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY

OPTION 2: REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING.

- STOCKPILE SOIL ON SITE IN A DESIGNATED CONTROLLED AREA, AT LEAST 50-FEET FROM
- SURFACE WATER, WETLANDS, FLOODPLAINS, OR OTHER CRITICAL RESOURCE AREAS. • SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4-INCHES. EXCEPT FOR WITHIN THE DROP LINE
- OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION. STOCKPILED TOPSOIL SHALL ALSO BE AMENDED, IF NEEDED, TO MEET THE ORGANIC CONTENT
 - •• PRE APPROVED RATE: COMPOST SHALL BE INCORPORATED WITH AN ORGANIC MATTER CONTENT BETWEEN 40 AND 65% INTO THE TOPSOIL AT A RATIO 1:3, OR
 - •• CALCULATED RATE: INCORPORATE COMPOSTED MATERIAL OR APPROVED ORGANIC MATERIAL AT A CALCULATED RATE TO ACHIEVE 4-INCHES OF SETTLED SOIL AT 4% ORGANIC CONTENT
- REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING RAKE TO LEVEL, AND REMOVE SURFACE ROCKS LARGER THAN 2-INCHES IN DIAMETER.

SUFFICIENT ORGANIC CONTENT AND DEPTH.

- SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4-INCHES. EXCEPT FOR WITHIN THE DRIP LINE OF EXISTING TREES, THE ENTIRE SURFACE SHALL BE DISTURBED BY SCARIFICATION
- PLACE 4-INCHES OF IMPORTED TOPSOIL MIX ON SURFACE. THE IMPORTED TOPSOIL MIX SHALL CONTAIN 4% ORGANIC MATTER. SOILS USED IN THE MIX SHALL BE SAND OR SANDY LOAM AS DEFINED BY THE USDA SOILS CLASSIFICATION SYSTEM.
- RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS LARGER THAN 2-INCHES IN DIAMETER. • WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.

SOILS MANAGEMENT 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 SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER. A MINIMUM OF NINE TEST HOLES PER ACRE SHALL BE DUG TO A DEPTH OF 8-INCHES AND SHALL BE AT LEAST 50-FEET APART. 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:

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

TESTS THAT INDICATE DIFFICULTY IN DRIVING A SPADE, LACK OF SOILS 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.

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

SOILS MANAGEMENT LEGEND

LIMITS OF EARTH DISTURBANCE (±0.48-AC) DISTURBED SOILS SUBJECT TO RESTORATION

STANDARDS



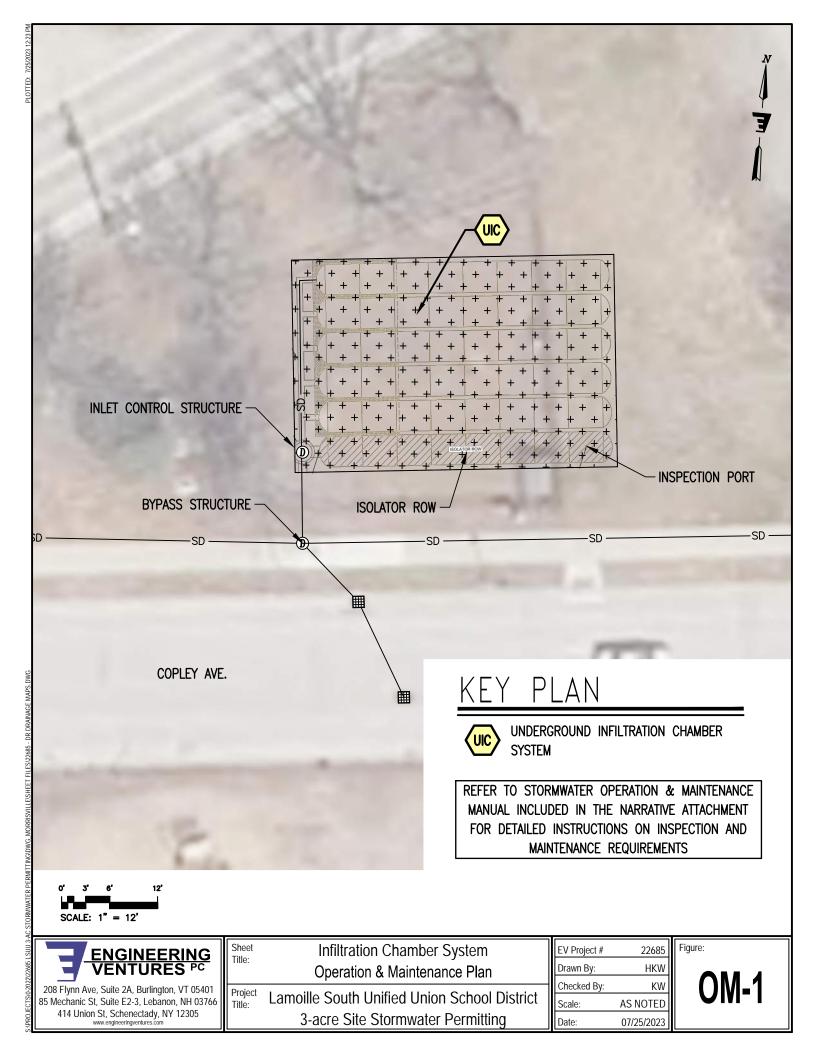
PROPOSED SOIL RESTORATION TESTING LOCATION (9 PER ACRE OF DISTURBED SUBJECT SOILS)

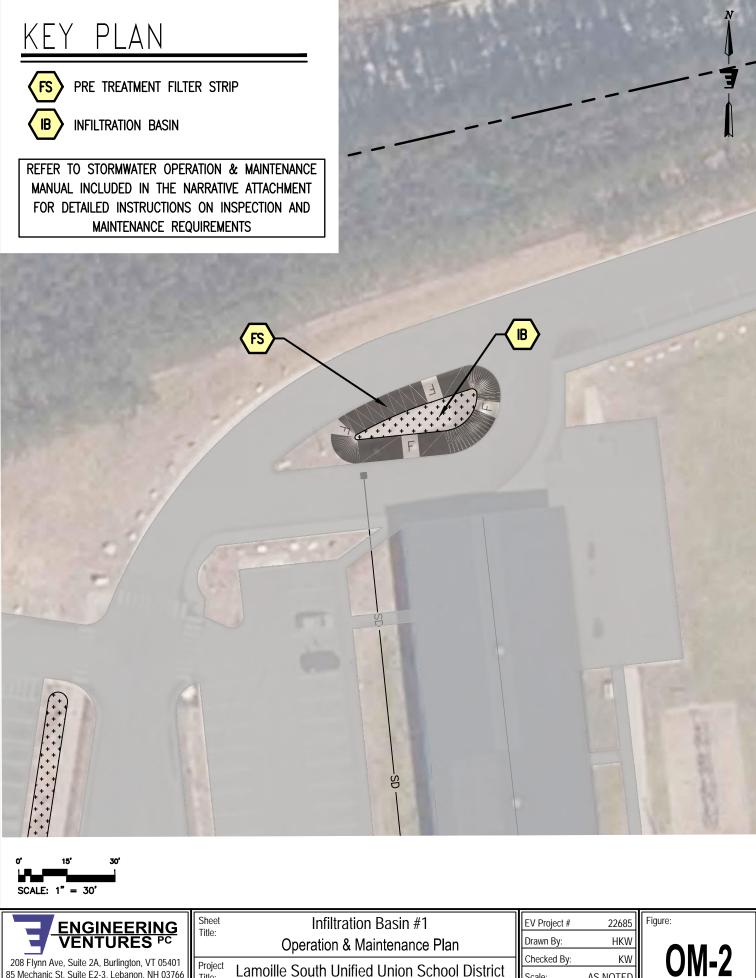
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South Unified Union School District Site Stormwater Permitting Project SOILS MANAGEMENT PLAN Peoples Academy/Morrisville Elementary

Lamoille 3-acre S

EV Project # 22685.10 Checked By: AS NOTED 07/25/2023





Lamoille South Unified Union School District

3-acre Site Stormwater Permitting

Scale:

Date:

AS NOTED

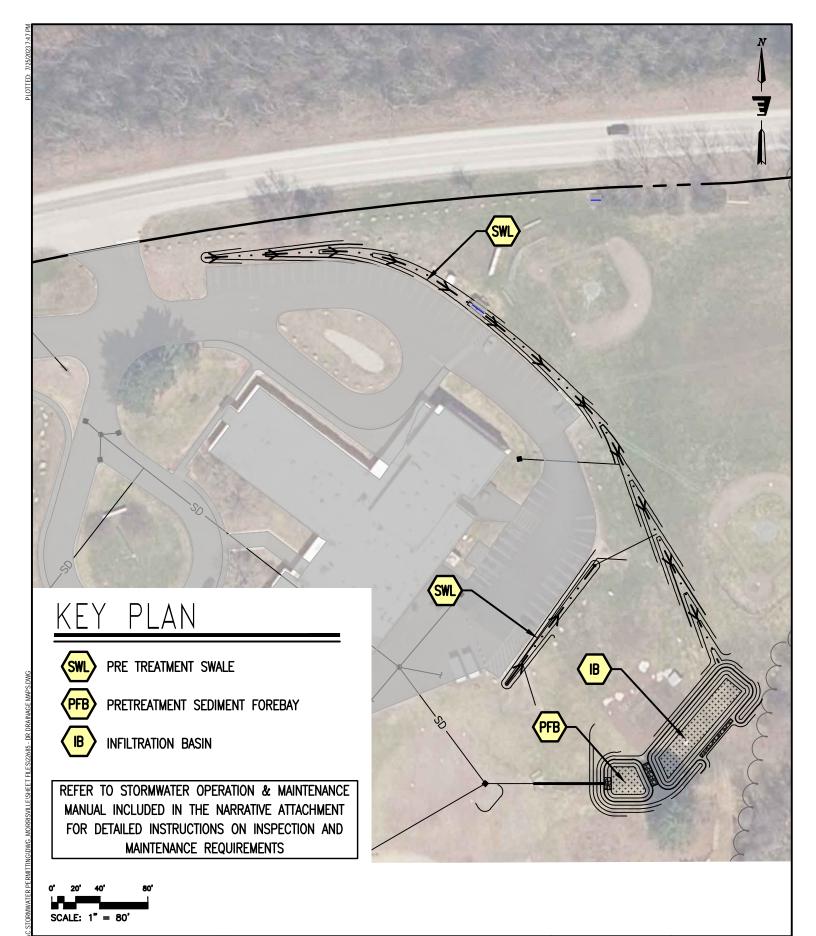
07/25/2023

85 Mechanic St, Suite E2-3, Lebanon, NH 03766

414 Union St, Schenectady, NY 12305

Project

Title:





208 Flynn Ave, Suite 2A, Burlington, VT 05401 85 Mechanic St, Suite E2-3, Lebanon, NH 03766 414 Union St, Schenectady, NY 12305 Sheet Title: Infiltration Basin #2
Operation & Maintenance Plan

Project Title: Lamoille South Unified Union School District 3-acre Site Stormwater Permitting

 EV Project #
 22685

 Drawn By:
 HKW

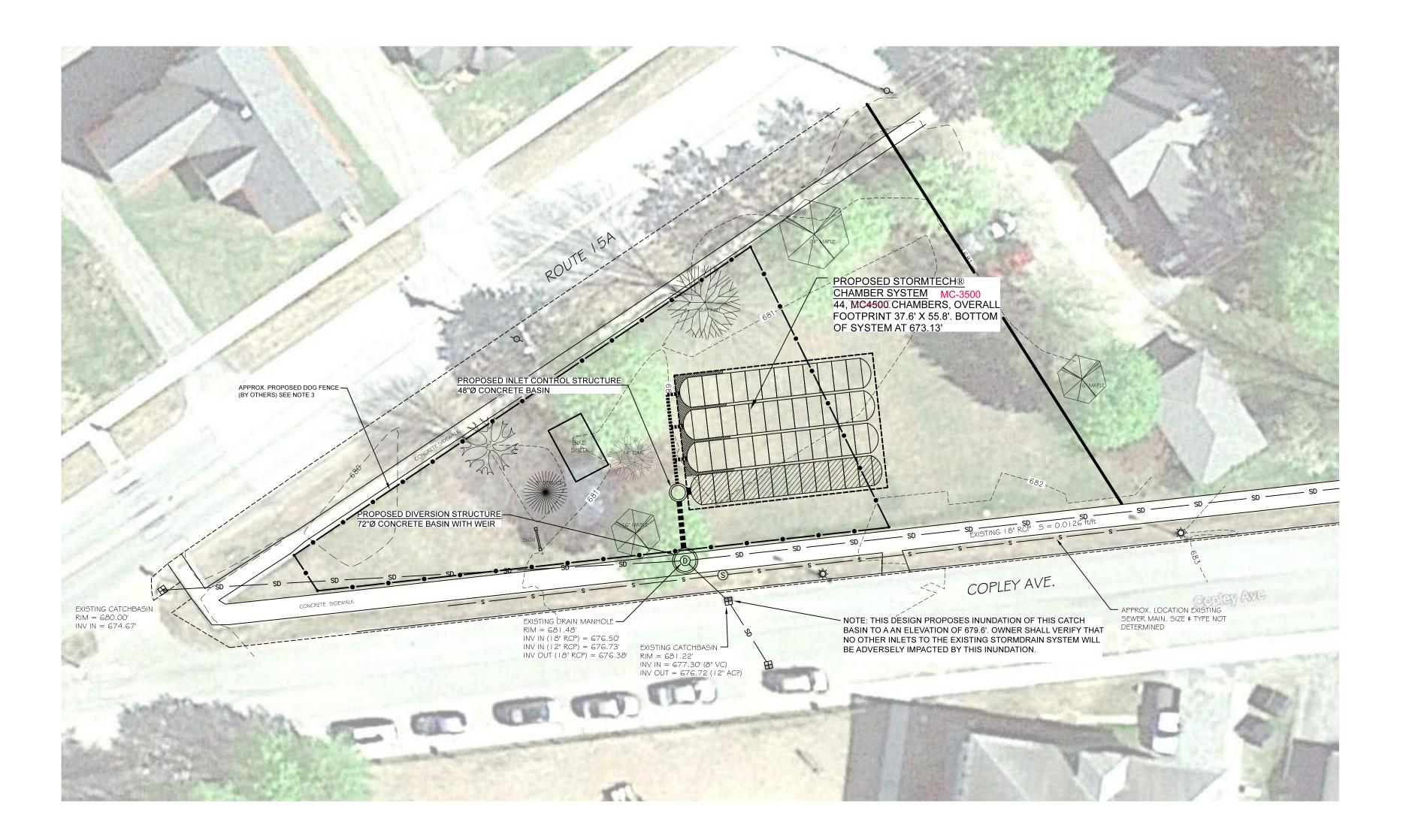
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 Scale:
 AS NOTED

 Date:
 07/25/2023

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LEGEND: ----- EDGE OF PAVEMENT ----- CURB LINE EDGE OF CONCRETE — — — — — — EDGE OF GRAVEL UTILITY POLE LIGHT POLE SEWER MANHOLE STORMDRAIN MANHOLE CATCHBASIN FIRE HYDRANT — s — s — SEWER MAIN —— SD ——— STORMDRAIN LINE -----EXISTING 1-FOOT INTERVAL CONTOUR __ _ _ XXX __ _ _ EXISTING 5-FOOT INTERVAL CONTOUR APPROX. PROPOSED DOG FENCE (BY OTHERS)

NOTES

1. SITE TOPOGRAPHY BASED ON A FIELD SURVEY BY CHASE & CHASE SURVEYORS, OCTOBER 2019. THE VERTICAL DATUM IS APPROXIMATE NAVD 1988.

2. THIS DESIGN PROPOSES INUNDATION OF THE CATCH BASIN IN COPLEY AVE. TO A DEPTH OF 0.88' ABOVE THE EXISTING INLET PIPE INVERT BEFORE OVERTOPPING OF THE OUTLET WEIR BEGINS. PRIOR TO FINAL DESIGN, VERIFY THAT NO OTHER EXISTING INFLOW LINES CONNECTED TO THIS BASIN WILL BE IMPACTED BY THAT SURCHARGE.

3. THE PROPOSED DOG FENCE IS SHOWN AS PER A SKETCH PLAN PROVIDED BY THE VILLAGE OF MORRISVILE AUGUST, 5, 2020.

4. USE MC-3500 CHAMBERS. SEE FINAL PLAN BY ADS FOR LAYOUT OF SYSTEM. ALL CHANGES TO INVERT ELEVATION ARE SHOWN AS REDLINE MARKUPS.

SYSTEM OPERATION:

1. RUNOFF FROM THE EXISTING STORMDRAIN IS DIRECTED INTO THE INLET MAINIFOLD STRUCTURE BY THE PRECAST WEIR IN THE NEW INLET/OUTLET CONTROL STRUCTURE AND INTO THE ISOLATOR ROW.

2. WHEN SUFFICIENT DEPTH IS REACHED IN THE ISOLATOR ROW, DISCHARGE THEN FLOWS INTO THE 12" PIPE MANIFOLD CONNECTING OTHER ROWS.

3. WHEN THE SYSTEM IS FULLY INUNDATED, ADDITIONAL FLOW WILL OVERTOP THE WEIR IN THE INLET/OUTLET CONTROL STRUCTURE AND CONTINUE INTO THE EXISTING STORMDRAIN SYSTEM.

4. UPON CESSATION OF THE RAIN EVENT, ALL RUNOFF CONTAINED WITHIN THE SYSTEM IS INFILTRATED INTO THE SOIL.

REVISED: 8/5/20 - USE MC-3500 CHAMBERS. SEE REDLINE REVISIONS - KKJ REVISED: 8/4/20 - DOG PARK FENCE, REDLINES ADDED - KKJ

PROPOSED VILLAC

COPLEY AVE

SCALE: 1" = 20' II

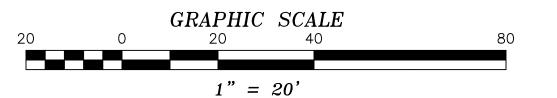
SITE PLAN
PROPOSED STORMWATER IMPROVEMENTS
VILLAGE OF MORRISVILLE
COPLEY PARK
COPLEY AVE
MORRISVILLE, VERMONT

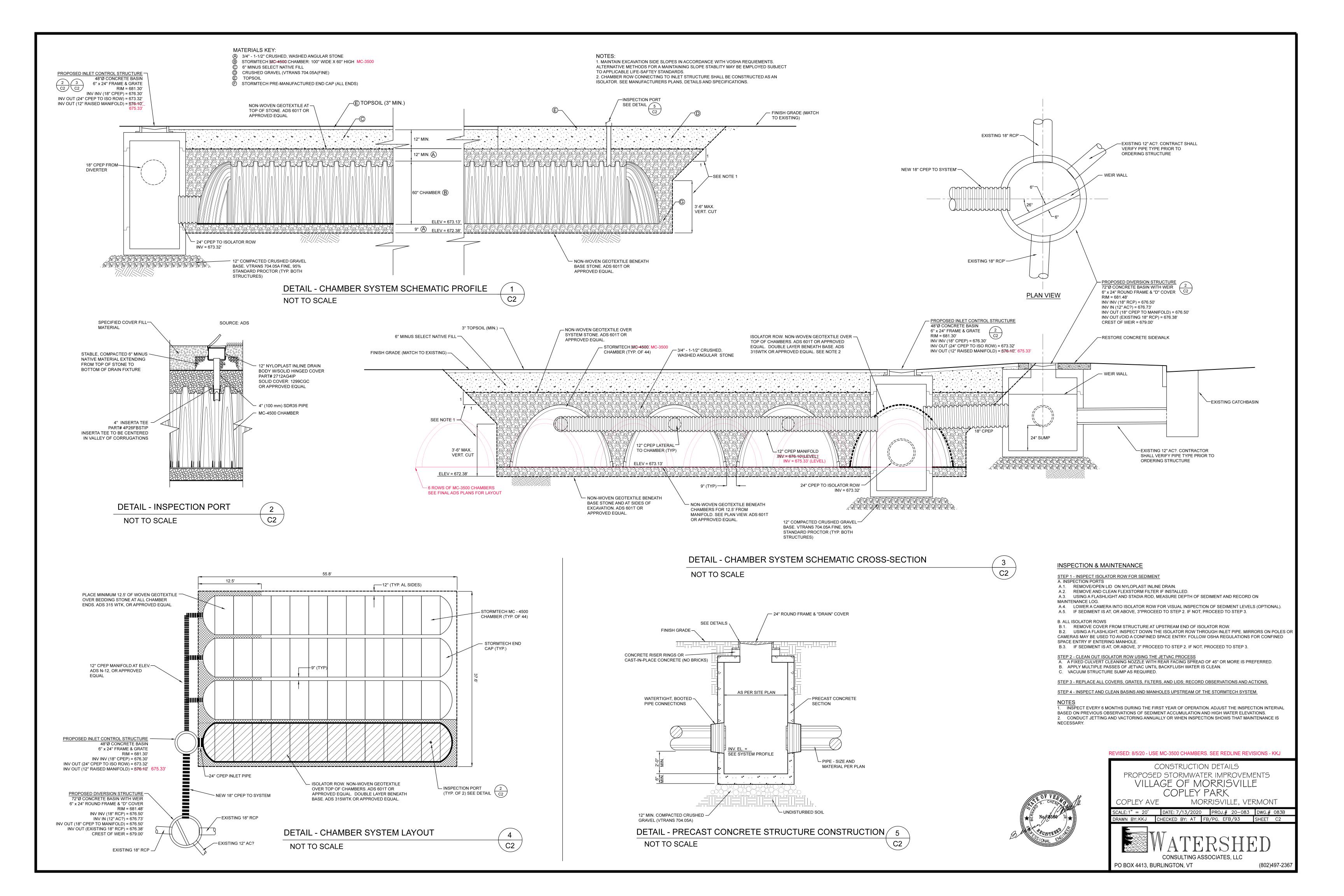
 SCALE:1" = 20'
 DATE: 7/13/2020
 PROJ.# 20-083
 DWG.# 083A

 DRAWN BY: KKJ
 CHECKED BY: AT FB/PG. EFB/93
 SHEET C1



* BENNANDE











COPLEY AVE & ROUTE 15A

MORRISVILLE, VT

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.
- 2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- 8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
 PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

STORMTECH RECOMMENDS 3 BACKFILL METHODS:

- STONESHOOTER LOCATED OFF THE CHAMBER BED.
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- 8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm) MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.^J
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING..^J
- 0. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".^J
- . THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.^J USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

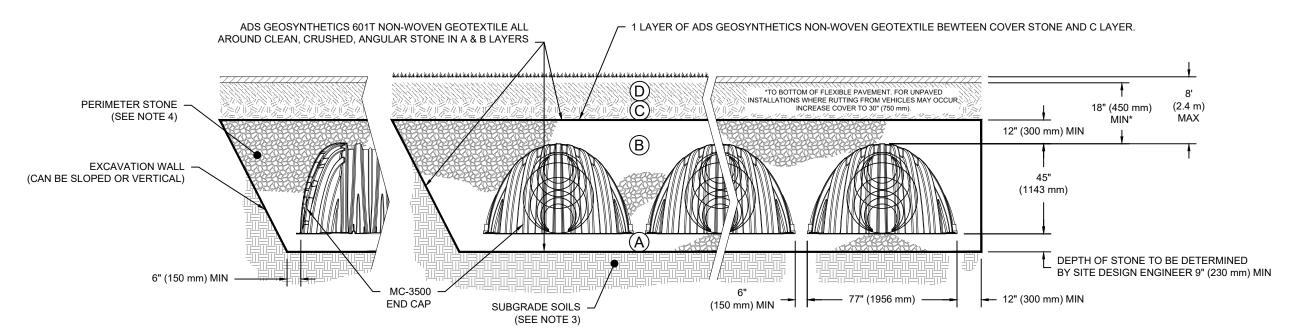
CONCEPTUAL LAYOUT PROPOSED ELEVATIONS **COMPUTER GENERATED CONCEPTUAL LAYOUT** MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): (48) STORMTECH MC-3500 CHAMBERS 684.88 **NOT FOR CONSTRUCTION** (12) STORMTECH MC-3500 END CAPS 678.88 COPLEY AVE & ROUTE MORRISVILLE, VT INSTALLED WITH 12" COVER STONE, 9" BASE STONE, 40% STONE VOID MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): 678.38 MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): **INSTALLED SYSTEM VOLUME: 9810 CF** 678.38 03/11/2019 DRAWN: AREA OF SYSTEM: 2971 FT² MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): 678.38 TOP OF STONE: PERIMETER OF SYSTEM: 223 FT 677.88 TOP OF CHAMBER: 676.88 12" CONNECTION INVERT: 675.33 24" CONNECTION INVERT (ISOLATOR ROW): 673.30 BOTTOM OF CHAMBER: 673.13 BOTTOM OF STONE: 672.38 PROJECT #: Tool PLACE MINIMUM 17.5' OF ADS GEOSYNTHETICS 315WTK WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS 12" x 12" ADS N-12 TOP MANIFOLD, INV 26.36" ABOVE CHAMBER BASE (SIZE TBD BY ENGINEER / SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE) 42.25 StormTe PROPOSED STRUCTURE W/ ELEVATED BYPASS MANIFOLD -(DESIGN BY ENGINEER / PROVIDED BY OTHERS) SCALI ISOLATOR ROW 2 NOT 24" CORED END CAP PART# MC3500REPE24BC TYP OF **INSPECTION PORT** ALL MC-3500 24" CONNECTIONS AND ISOLATOR ROWS SHEET 2 OF 5

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

| | MATERIAL LOCATION | DESCRIPTION | AASHTO MATERIAL
CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT | |
|---|---|--|---|---|--|
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. | |
| С | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. | |
| В | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43 ¹
3, 4 | NO COMPACTION REQUIRED. | |
| А | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43 ¹
3, 4 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3} | |

PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

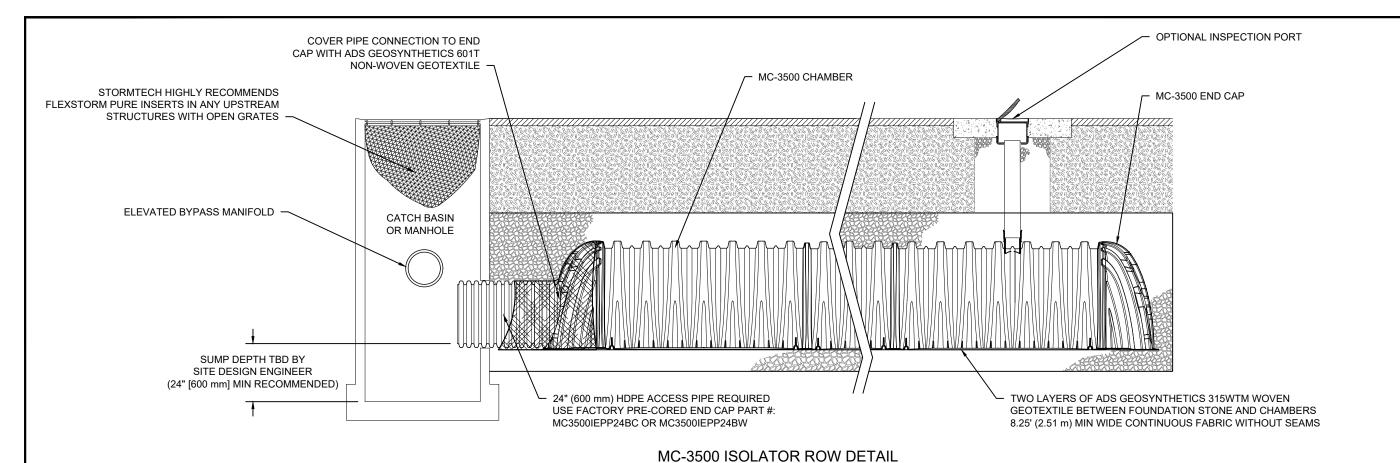


NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN.

 AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

| ATI 15A | 75 7 | <u>:</u> \T | | | /N: AC | | | CHECKED: | CTION. IT IS THE ULTIMAT |
|-----------------------|---|------------------------------------|---|-----|---------------------------------------|--|---|---|---|
| A21 IOA & AVA VA IOOO | 001 LE 1 AV L & IX | MORRISVILLE, VT | | | DATE: 03/11/2019 DRAWN: AC | | | PROJECT #: 1001 CHEC | L REVIEW THIS DRAWING PRIOR TO CONSTRU |
| DESCRIPTION | 77-13-2020 AC AC REVISED PER ENGINEER'S PLANS | 77-13-2020 AC AC MC-3500 ALTERNATE | 18-07-2020 AC AC REVISED PER ENGINEER'S MODEL | | | | | | SENTATIVE. THE SITE DESIGN ENGINEER SHALIONS, AND PROJECT REQUIREMENTS. |
| REV DRW CHK | AC | AC | AC. | 2 | | | | | CT REPRE
REGULAT |
| DRW |) AC |) AC | AC | 2 | | | | | R PROJE
LE LAWS, |
| REV | 7-13-202 | 7-13-202 | 8-07-202 | 707 | | | | | R OR OTHE
APPLICAB |
| ** | | | | | Detention • Retention • Water Quality | 70 INWOOD ROAD SUITE 3 ROCKY HILL CT 06067 | | 860-529-8188 888-892-2694 WWW.STORMTECH.COM | THE DESIGN ENGINEER DESIGN THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMAT APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS. |
| TA 4640 TRUEMAN BLVD | HILLIARD, OH 43026 | 1-800-733-7473 | | | | | | | ARED BASED ON INFORMATION PROVISION ENGINEER TO ENSURE THAT TI |
| | | | ADVANCED DRAINAGE SYSTEMS, INC. | | | | | | THIS DRAWING HAS BEEN PREPAI
RESPONSIBILITY OF THE SITE DES |
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INSPECTION & MAINTENANCE

INSPECT ISOLATOR ROW FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

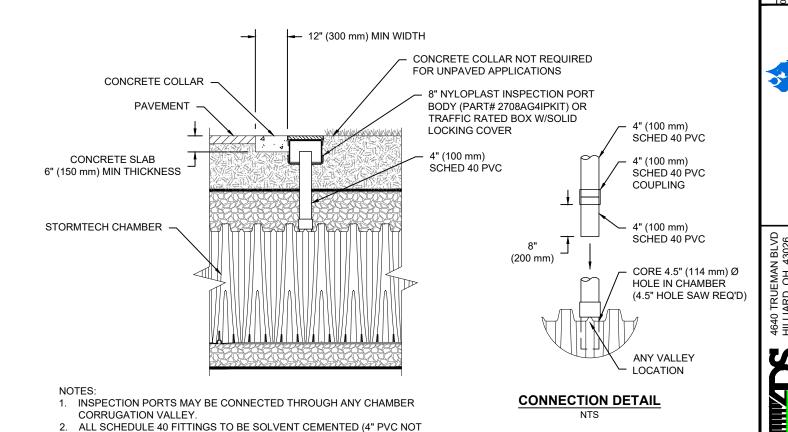
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. A.5.

B. ALL ISOLATOR ROWS

- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
 - A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



4" PVC INSPECTION PORT DETAIL

PROVIDED BY ADS).

OF

Storm

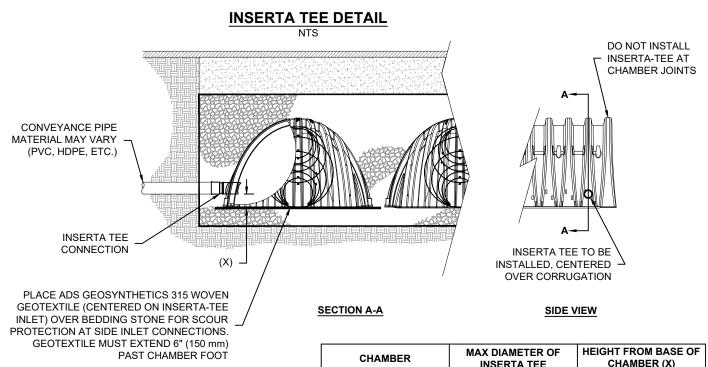
PLEY AVE & ROUTE 1 MORRISVILLE, VT

OPLEY

DRAWN:

03/11/2019

PROJECT #:

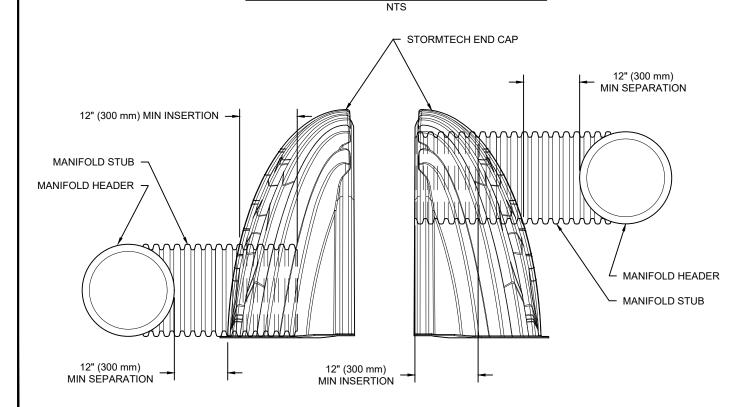


| CHAMBER | MAX DIAMETER OF
INSERTA TEE | HEIGHT FROM BASE OF
CHAMBER (X) | | | | |
|---|--------------------------------|------------------------------------|--|--|--|--|
| SC-310 | 6" (150 mm) | 4" (100 mm) | | | | |
| SC-740 | 10" (250 mm) | 4" (100 mm) | | | | |
| DC-780 | 10" (250 mm) | 4" (100 mm) | | | | |
| MC-3500 | 12" (300 mm) | 6" (150 mm) | | | | |
| MC-4500 12" (300 mm) 8" (200 mm) | | | | | | |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS
GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON | | | | | | |

MC-SERIES END CAP INSERTION DETAIL

PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.

CONTACT STORMTECH FOR MORE INFORMATION.



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 TECHNICAL SPECIFICATION VALLEY 86.0" (2184 mm) CREST INSTALLED STIFFENING RIB **CREST** STIFFENING RIB LOWER JOINT CORRUGATION UPPER JOINT CORRUGATION BUILD ROW IN THIS DIRECTION ⇒ 90.0" (2286 mm) ACTUAL LENGTH 45.0" 45.0" 22.2" (1143 mm) (1143 mm) (564 mm) INSTALLED 77 0" 75.0" (1956 mm) (1905 mm) **NOMINAL CHAMBER SPECIFICATIONS**

(1956 mm X 1143 mm X 2184 mm)

(1905 mm X 1143 mm X 564 mm)

 (3.11 m^3)

(5.06 m³)

(60.8 kg)

(0.42 m³)

(1.30 m³)

(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

77.0" X 45.0" X 86.0"

109.9 CUBIC FEET

178.9 CUBIC FEET

75.0" X 45.0" X 22.2"

14.9 CUBIC FEET

46.0 CUBIC FEET

134 lbs.

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" END CAPS WITH A WELDED CROWN PLATE END WITH "C"

| PART# | STUB | В | С |
|----------------|-----------------|-------------------|-----------------|
| MC3500IEPP06T | 6" (150 mm) | 33.21" (844 mm) | |
| MC3500IEPP06B | 0 (130 11111) | | 0.66" (17 mm) |
| MC3500IEPP08T | 8" (200 mm) | 31.16" (791 mm) | |
| MC3500IEPP08B | 0 (200 11111) | | 0.81" (21 mm) |
| MC3500IEPP10T | 10" (250 mm) | 29.04" (738 mm) | |
| MC3500IEPP10B | 10 (250 11111) | | 0.93" (24 mm) |
| MC3500IEPP12T | 12" (300 mm) | 26.36" (670 mm) | |
| MC3500IEPP12B | 12 (300 11111) | | 1.35" (34 mm) |
| MC3500IEPP15T | 15" (375 mm) | 23.39" (594 mm) | |
| MC3500IEPP15B | 15 (3/5 11111) | | 1.50" (38 mm) |
| MC3500IEPP18TC | | 20.03" (509 mm) | |
| MC3500IEPP18TW | 18" (450 mm) | 20.03 (309 11111) | |
| MC3500IEPP18BC | 10 (430 11111) | | 1.77" (45 mm) |
| MC3500IEPP18BW | | | 1.77 (45 11111) |
| MC3500IEPP24TC | | 14.48" (368 mm) | |
| MC3500IEPP24TW | 24" (600 mm) | 14.40 (300 11111) | |
| MC3500IEPP24BC | 24 (000 111111) | | 2.06" (52 mm) |
| MC3500IEPP24BW | | | 2.00 (32 11111) |
| MC3500IEPP30BC | 30" (750 mm) | | 2.75" (70 mm) |

NOTE: ALL DIMENSIONS ARE NOMINAL

SIZE (W X H X INSTALLED LENGTH)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)

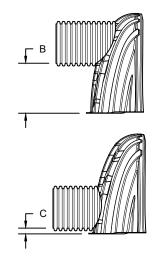
MINIMUM INSTALLED STORAGE*

MINIMUM INSTALLED STORAGE*

CHAMBER STORAGE

END CAP STORAGE

WEIGHT



CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

Storm

PLEY AVE & ROUTE 1 MORRISVILLE, VT

OPLEY

25.7"

(653 mm)

CHECKED

DRAWN:

03/11/2019

SHEET

OF

