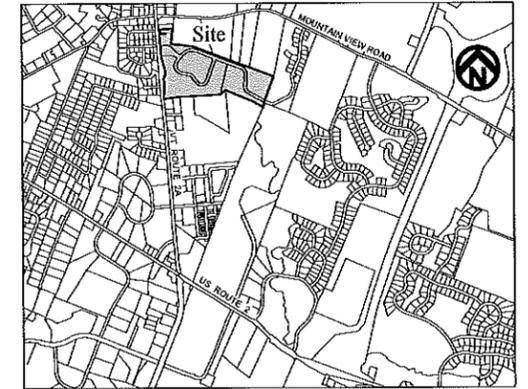


# MEADOW RUN & FOREST RUN NEIGHBORHOOD STORMWATER IMPROVEMENT PROJECT



Vicinity Map  
NOT TO SCALE

### INDEX OF SHEETS

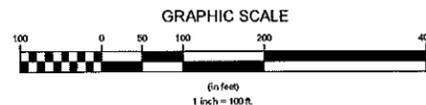
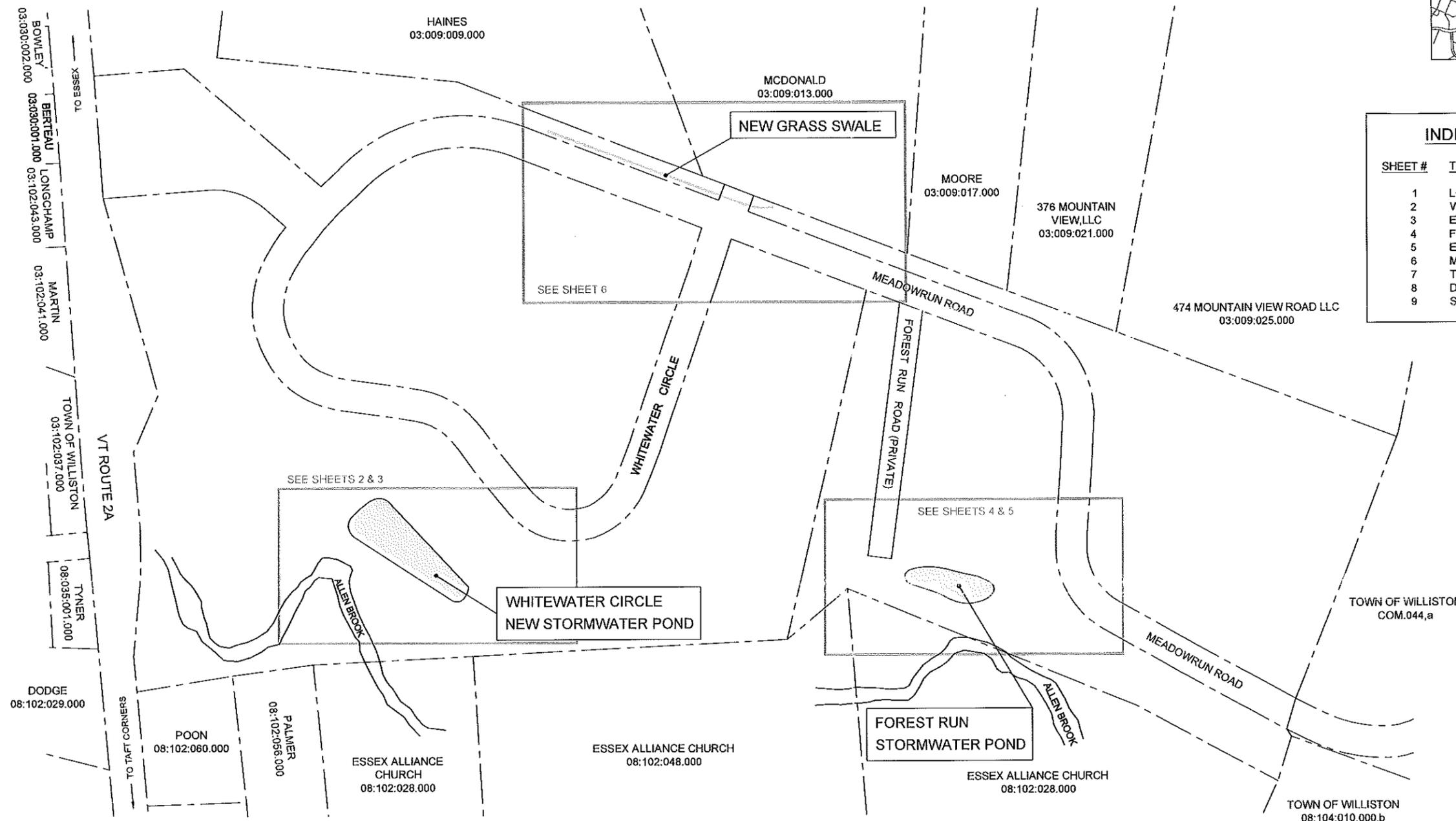
SHEET #	TITLE
1	LOCATION PLAN
2	WHITewater CIRCLE PROPOSED STORMWATER POND
3	EROSION PREVENTION & SEDIMENT CONTROL PLAN
4	FOREST RUN RD STORMWATER POND IMPROVEMENTS
5	EROSION PREVENTION & SEDIMENT CONTROL PLAN
6	MEADOWRUN ROAD PROPOSED WET SWALE
7	TYPICAL DETAILS & SPECIFICATIONS
8	DETAILS & SPECIFICATIONS DPW STANDARDS
9	STORMWATER STRUCTURE DETAILS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT # DP 16-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2016, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE 1 DAY OF MAY, 2017.

*K. Belli*  
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

- NOTES:
1. THE PURPOSE OF THIS PLAN IS TO PRESENT THE OVERALL LAYOUT OF THE PROPOSED STORMWATER IMPROVEMENTS. SEE OTHER PLANS FOR ADDITIONAL DESIGN INFORMATION AND CONSTRUCTION DETAILS.
  2. BOUNDARY INFORMATION SHOWN IS BASED UPON FIELD EVIDENCE, TAX MAPS, AND THE PROPERTY PLATS FOR MEADOW RUN AND FOREST RUN. THE PROPERTY LINES SHOWN ON THESE PLANS SHALL ONLY BE USED FOR THE STORMWATER IMPROVEMENTS.
  3. EXISTING CONDITIONS SHOWN HEREON ARE BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY L&D IN SEPTEMBER 2014 AND FEBRUARY 2016. EXISTING UTILITIES ARE BASED UPON THE TOPOGRAPHIC SURVEY AND DIGSAFE MARKINGS FROM OCTOBER 2015 AND FEBRUARY 2016. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE.
  4. THE SPECIAL FLOOD HAZARD AREA (100 YEAR) IS BASED UPON THE FLOOD INSURANCE RATE MAP FOR CHITTENDEN COUNTY, PANEL 278, MAP NUMBER 50007C0278D, EFFECTIVE JULY 18, 2011.
  5. THE WETLAND DELINEATION WAS PERFORMED BY L&D IN MAY & JUNE 2014.

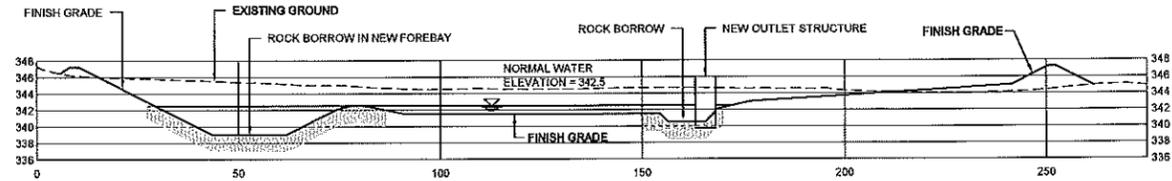
Date	Revision	By
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<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction	
<input checked="" type="checkbox"/> Final Local Review	<input type="checkbox"/> Record Drawing	
<b>Meadow Run &amp; Forest Run Neighborhood Stormwater Improvement Project</b> Meadowrun Road, Forest Run Road, & Whitewater Circle		Project No. 14057 Survey - Design L&D Drawn L&D Checked ABR/DLG Date 03-01-16 Scale 1" = 100' Sheet number 1
<b>NEIGHBORHOOD STORMWATER IMPROVEMENTS LOCATION PLAN</b>		<b>Lamoureux &amp; Dickinson Consulting Engineers, Inc.</b> 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com



**FINAL PLANS**

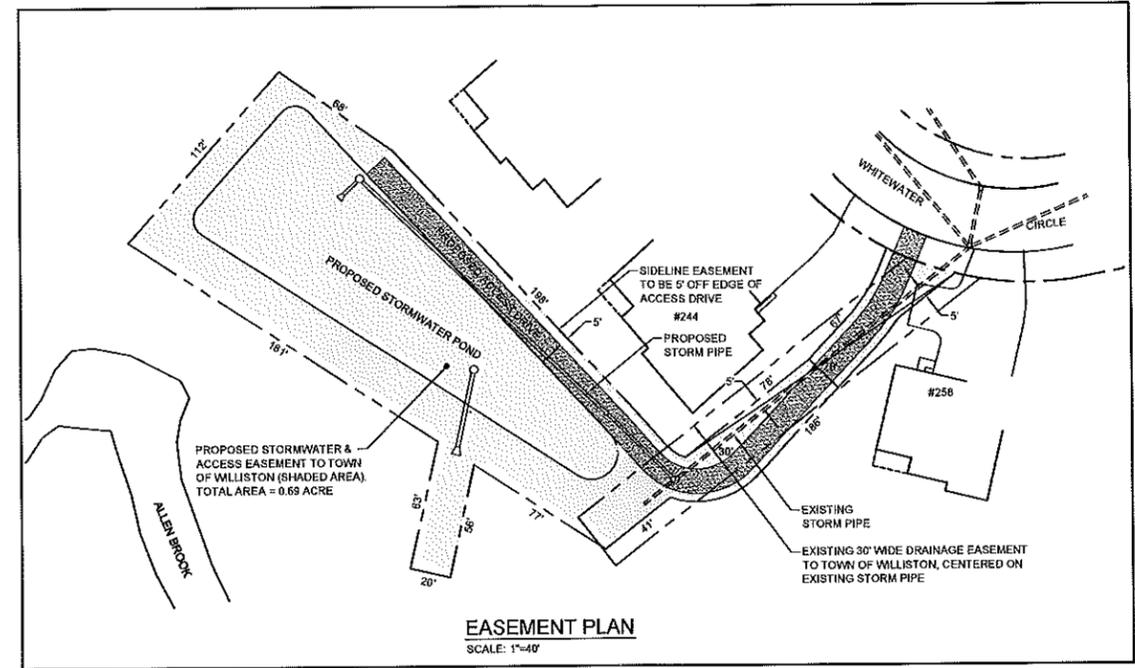
DP 16-26 FINAL PLANS

DP # 16-26 TAX PARCELS: COM.012.a, COM.012.b, COM.013a



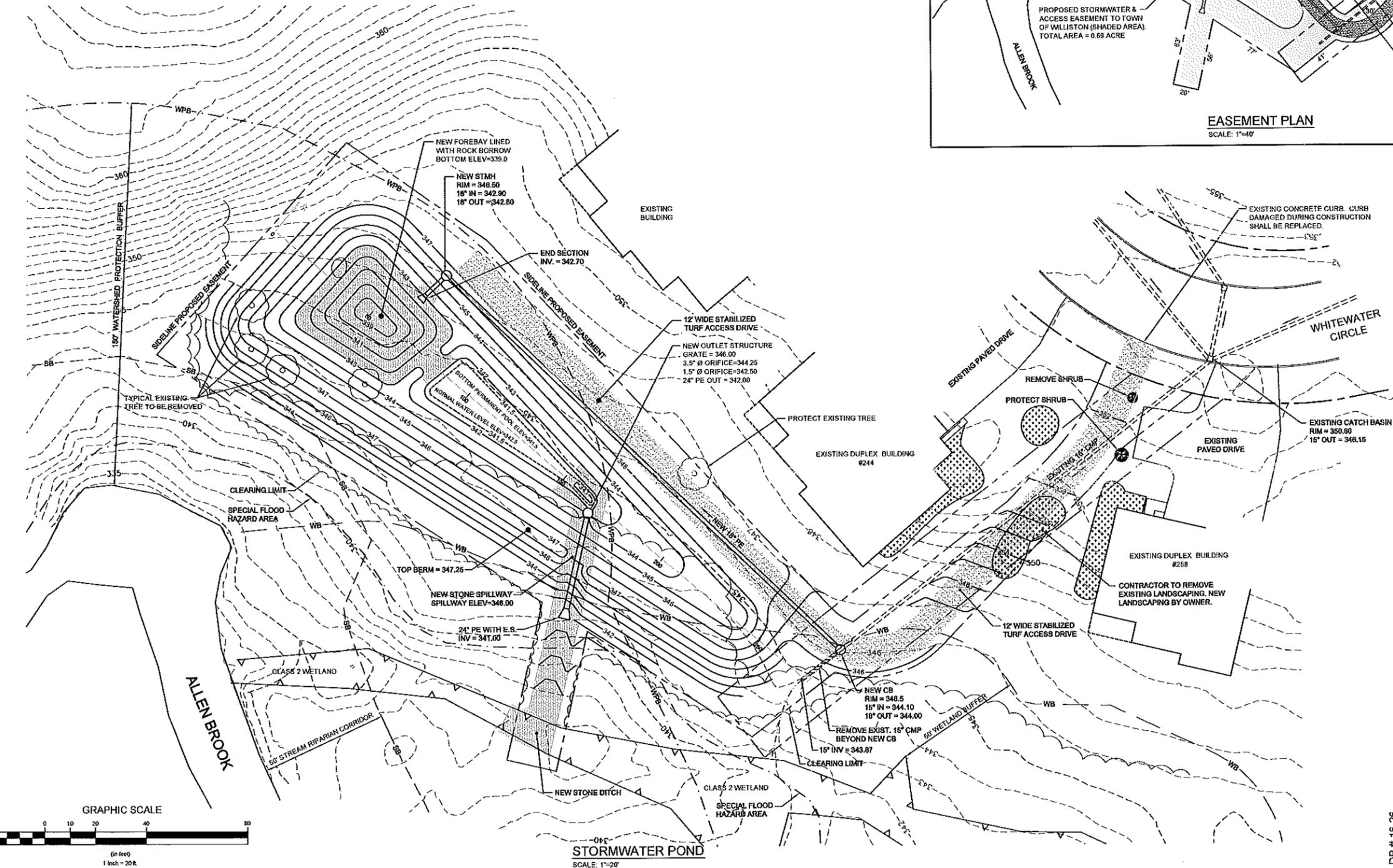
STORMWATER POND CROSS SECTION A - A

SCALE: 1" = 20' HOR.  
1" = 10' VERT.



EASEMENT PLAN

SCALE: 1" = 40'



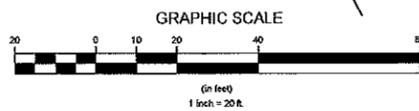
THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION

LEGEND

- PROJECT BOUNDARY LINE
- - - PROPOSED EASEMENT
- - - 350 - - - EXISTING GROUND CONTOUR
- - - SPECIAL FLOOD HAZARD AREA
- - - EXISTING STORM PIPE & CATCH BASIN
- - - NEW CATCHBASIN & STORM PIPE
- - - 345 - - - PROPOSED CONTOUR
- - - WPB - - - WATERSHED PROTECTION BUFFER
- - - SB - - - STREAM BUFFER
- - - WB - - - WETLAND BUFFER

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*K. Belk*  
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE



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<p>Meadow Run &amp; Forest Run Neighborhood Stormwater Improvement Project Meadowrun Road, Forest Run Road, &amp; Whitewater Circle</p>		
<p>WHITWATER CIRCLE PROPOSED STORMWATER POND</p>		<p>Project No. 14057 Survey Design L&amp;D Drawn L&amp;D Checked ABR/DLG Date 03-01-16 Scale 1" = 20' Sheet number 2</p>
<p>Lamoureux &amp; Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com</p>		

DP # 16-26  
TAX PARCELS: COM.012.a COM.012.b COM.013a



THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION

### EROSION PREVENTION AND SEDIMENT CONTROL PERMIT REQUIREMENTS

PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL OBTAIN CO-PERMITTEE COVERAGE UNDER GENERAL PERMIT 3-9020 WHICH REGULATES STORMWATER RUNOFF FROM CONSTRUCTION SITES.

THIS PROJECT QUALIFIES AS HAVING A LOW RISK FOR IMPACTS TO WATER QUALITY, BASED UPON THE FOLLOWING:

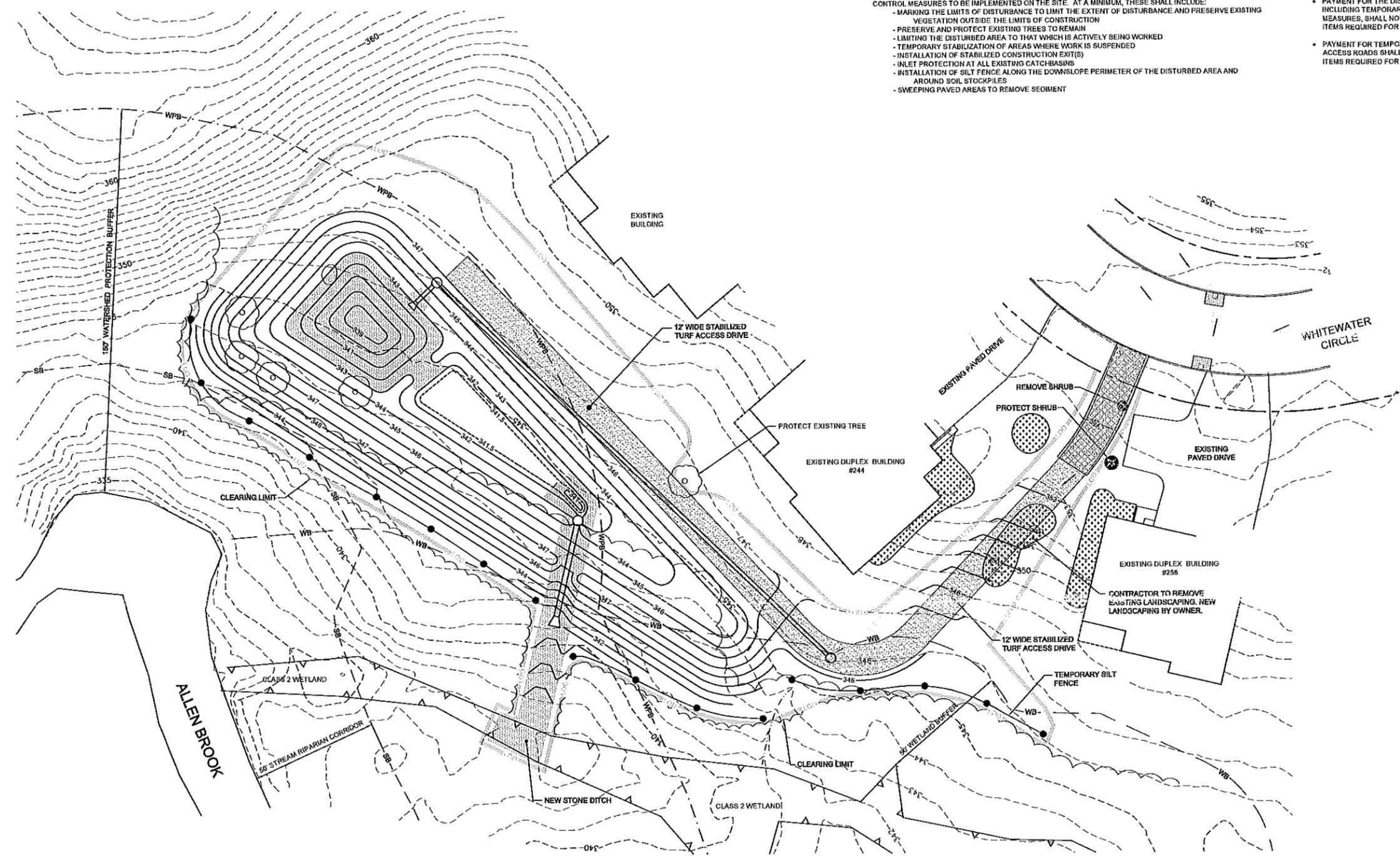
- TOTAL CUMULATIVE DISTURBANCE OF LESS THAN 2 ACRES
- A MAXIMUM OF 14 CONSECUTIVE DAYS BEFORE DISTURBED AREAS ARE TEMPORARILY OR PERMANENTLY STABILIZED.

THESE CRITERIA FORM THE BASIS FOR THE LOW RISK DETERMINATION. ANY CHANGES TO THESE CRITERIA REQUIRE THAT THE RISK ANALYSIS BE RE-EVALUATED TO DETERMINE IF THE POTENTIAL RISK TO WATER QUALITY, AND THE RELATED PERMITTING REQUIREMENTS, HAVE CHANGED.

THE CONTRACTOR SHALL REFER TO THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED ON THE SITE. AT A MINIMUM, THESE SHALL INCLUDE:

- MARKING THE LIMITS OF DISTURBANCE TO LIMIT THE EXTENT OF DISTURBANCE AND PRESERVE EXISTING VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION
- PRESERVE AND PROTECT EXISTING TREES TO REMAIN
- LIMITING THE DISTURBED AREA TO THAT WHICH IS ACTIVELY BEING WORKED
- TEMPORARY STABILIZATION OF AREAS WHERE WORK IS SUSPENDED
- INSTALLATION OF STABILIZED CONSTRUCTION EXIT(S)
- INLET PROTECTION AT ALL EXISTING CATCHBASINS
- INSTALLATION OF SILT FENCE ALONG THE DOWNSLOPE PERIMETER OF THE DISTURBED AREA AND AROUND SOIL STOCKPILES
- SWEEPING PAVED AREAS TO REMOVE SEDIMENT

- THE AREA OF DISTURBED SOILS AND THE DURATION OF EXPOSURE OF THE DISTURBED SOILS SHALL BE MINIMIZED. TO ACCOMPLISH THIS, WORK EFFORT SHOULD BE FOCUSED ON THE COMPLETION AND STABILIZATION OF ONE TASK BEFORE PROCEEDING TO THE NEXT.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PRIOR TO AND FOLLOWING PRECIPITATION EVENTS, AND NOT LESS THAN ONCE EVERY SEVEN (7) DAYS. MAINTENANCE AND REPAIRS SHALL BE PROMPTLY COMPLETED.
- TEMPORARY SOIL STOCKPILES SHALL BE MULCHED WITH HAY AND TEMPORARY SILT FENCE INSTALLED AROUND THE DOWNSLOPE PERIMETER OF THE PILES.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AFTER FINAL STABILIZATION AND PRIOR TO COMPLETION OF THE PROJECT.
- PAYMENT FOR THE DISPOSAL OF UNSUITABLE OR EXCESS MATERIAL AT AN OFF-SITE LOCATION INCLUDING TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS ITEMS REQUIRED FOR COMPLETION OF THE WORK SHOWN ON THE PLANS.
- PAYMENT FOR TEMPORARY STABILIZED BASE IN STAGING OR STORAGE AREAS OR TEMPORARY ACCESS ROADS SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS ITEMS REQUIRED FOR COMPLETION OF THE WORK SHOWN ON THE PLANS.



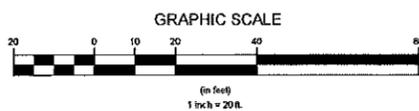
### EPSC Legend

- PROJECT BOUNDARY LINE
- PROPOSED EASEMENT
- EXISTING GROUND CONTOUR
- EXISTING STORM PIPE & CATCH BASIN
- PROPOSED CONTOUR
- WATERSHED PROTECTION BUFFER
- STREAM BUFFER
- WETLAND BUFFER
- LIMITS OF DISTURBANCE
- TEMPORARY SILT FENCE
- INLET PROTECTION
- STABILIZED CONSTRUCTION EXIT
- ROCK BORROW

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT # DP 16-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2016, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE 1 DAY OF MAY 2017.

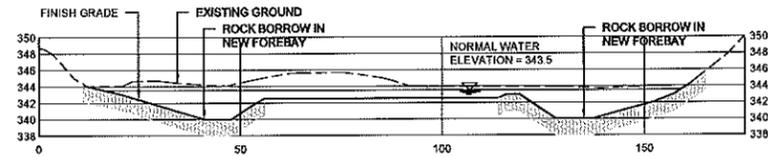
*[Signature]*  
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

EROSION PREVENTION AND SEDIMENT CONTROL PLAN  
SCALE: 1"=20'



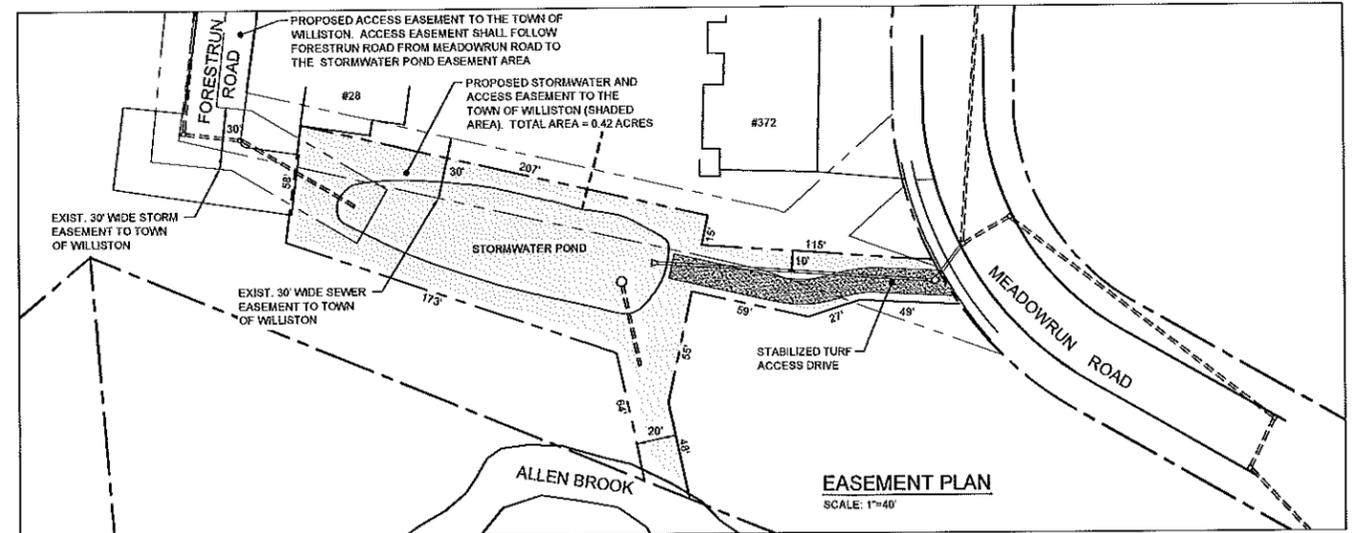
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<b>Meadow Run &amp; Forest Run Neighborhood Stormwater Improvement Project</b> Meadowrun Road, Forest Run Road, & Whitewater Circle		Project No. 14057 Survey - Design L&D Drawn L&D Checked ABR/DLG Date 03-01-16 Scale 1" = 20' Sheet number 3
<b>EROSION PROTECTION &amp; SEDIMENT CONTROL PLAN</b>		
<b>Lamoureux &amp; Dickinson Consulting Engineers, Inc.</b> 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com		

DP # 16-26  
TAX PARCELS: COM.012.a COM.012.b COM.013a

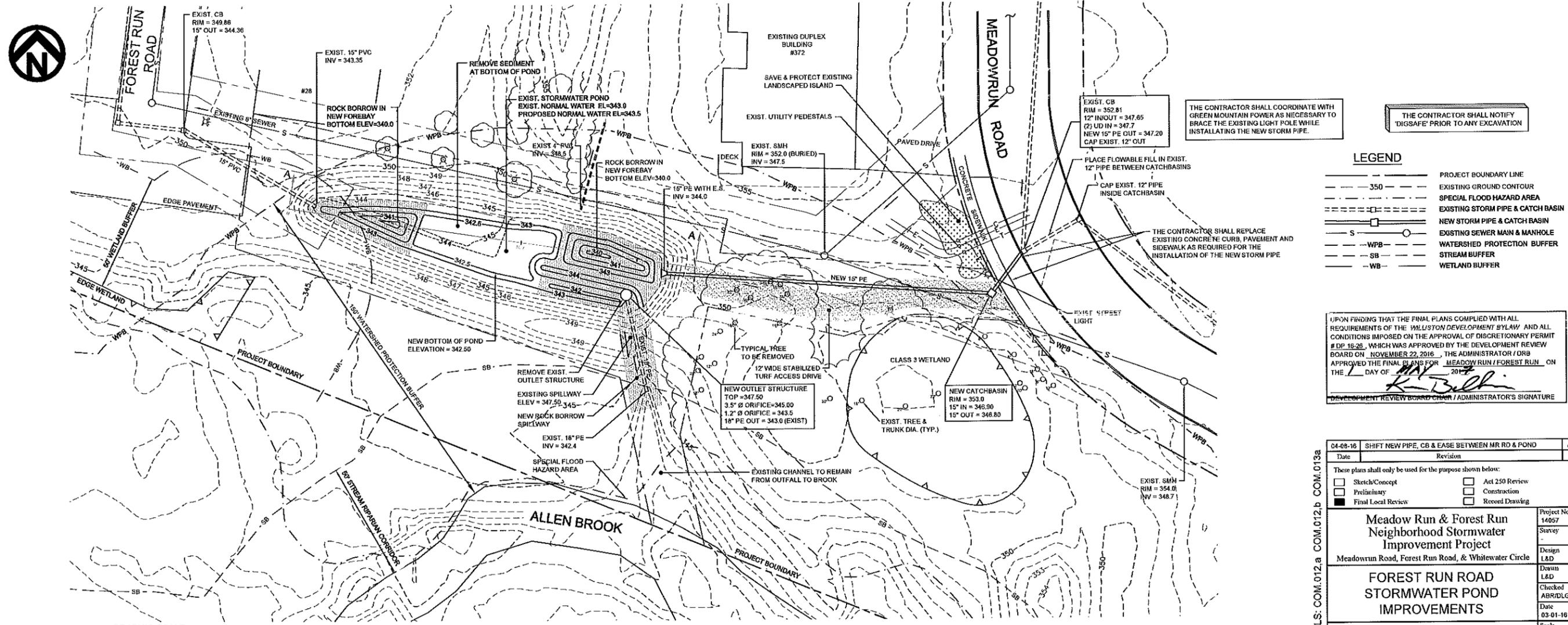


**STORMWATER POND CROSS SECTION A - A**

SCALE: 1" = 20' HOR.  
1" = 10' VERT.



**EASEMENT PLAN**  
SCALE: 1"=40'



THE CONTRACTOR SHALL COORDINATE WITH GREEN MOUNTAIN POWER AS NECESSARY TO BRACE THE EXISTING LIGHT POLE WHILE INSTALLING THE NEW STORM PIPE.

THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION

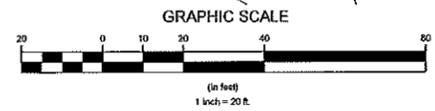
**LEGEND**

---	PROJECT BOUNDARY LINE
- - - -	EXISTING GROUND CONTOUR
- - - -	SPECIAL FLOOD HAZARD AREA
- - - -	EXISTING STORM PIPE & CATCH BASIN
- - - -	NEW STORM PIPE & CATCH BASIN
S	EXISTING SEWER MAIN & MANHOLE
- WPB	WATERSHED PROTECTION BUFFER
- SB	STREAM BUFFER
- WB	WETLAND BUFFER

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT SYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT # DP 16-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2016, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017.

*R. J. Belli*  
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

04-08-16	SHIFT NEW PIPE, CB & EASE BETWEEN MR RD & POND	ABR
Date	Revision	By
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<b>FOREST RUN ROAD STORMWATER POND IMPROVEMENTS</b>		Scale 1" = 20' Sheet number 4
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**STORMWATER POND**  
SCALE: 1"=20'

DP # 16-26 TAX PARCELS: COM.012.a COM.012.b COM.013a

**GENERAL CONSTRUCTION SPECIFICATIONS**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSIONS OF THE WILLISTON PUBLIC WORKS STANDARD SPECIFICATIONS, THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THESE PLANS.
- THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY DIG SAFE AND THE TOWN OF WILLISTON PUBLIC WORKS DEPARTMENT PRIOR TO ANY EXCAVATION.
- UTILITIES INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DRAWINGS AND FIELD EVIDENCE, AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FACILITATE A PRECONSTRUCTION MEETING WITH THE OWNER, ENGINEER, AND THE WILLISTON PUBLIC WORKS DEPARTMENT. THE PROJECT SCHEDULE, INCLUDING CRITICAL MILESTONES SHALL BE PRESENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE OWNER AND ENGINEER PRIOR TO BEGINNING ANY WORK, MODIFYING THE OUTLET STRUCTURE, INSTALLATION OF STONE FILL, INSTALLATION OF GRAVEL SUBBASE, AND PLACEMENT OF TOPSOIL. THE CONTRACTOR SHALL ALSO FACILITATE A FINAL INSPECTION WITH THE OWNER, ENGINEER, AND WILLISTON PUBLIC WORKS DEPARTMENT.
- LANOUREUX & DICKINSON (L&D) WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM FAILURE TO FOLLOW THESE PLANS AND SPECIFICATIONS. THE DESIGN INTENT THAT THEY CONVEY, AND ANY CHANGES MADE TO THE PLANS AND/OR SPECIFICATIONS WITHOUT THE PRIOR KNOWLEDGE AND ACCEPTANCE OF L&D.

**STORMWATER CONSTRUCTION SPECIFICATIONS**

**SITE PREPARATION**  
AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBSTRUCTIONAL MATERIAL SHALL BE REMOVED. ALL TREES SHALL BE CLEARED AND GRUBBED TO THE LIMITS SHOWN ON THE PLANS.

SWALE/DITCH SIDESLOPES AND SLOPE BREAKS SHALL BE GRADED TO NO STEEPER THAN 2H:1V.  
NO CLEARING OR GRUBBED MATERIAL SHALL BE DISPOSED OF WITHIN THE LIMITS OF THE POOL OR THE POUD EMBANKMENT.

**EARTH FILL**  
MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED OR DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 8 INCHES IN DIAMETER, FRICES OR OTHER DISCREPANT MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE.

MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.

**PLACEMENT** - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTIGUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

**COMPACTION** - THE MOVEMENT OF THE HANDLING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT IS ADEQUATELY AND EVENLY COMPACTED. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. ALL COMPACTION IS TO BE DETERMINED BY ASHTO METHOD T99 (STANDARD PROCTOR).

**STRUCTURE BACKFILL**  
BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. REFER TO THE TYPICAL PIPE OR CONDUIT CROSS SECTION DETAIL FOR BEDDING REQUIREMENTS. THE MINIMUM REQUIRED DENSITY AND COMPACTION SHALL BE THE SAME AS FOR EARTH FILL.

SEE ALSO REQUIREMENTS FOR ANTI-SEEP COLLARS FOR PIPES WITHIN THE POND EMBANKMENT.

**PIPE CONDUITS**  
ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

PIPE MATERIALS SHALL BE AS SPECIFIED ON THE PLANS. WHERE EXISTING PIPES ARE TO BE EXTENDED, THE EXTENSION SHALL MATCH THE EXISTING PIPE MATERIAL.

PVC PIPE SHALL BE SDRS CONFORMING TO ASTM D-1785 OR ASTM D-2241.

CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE, COUPLINGS AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASHTO METHOD T-5 OR ASTM F2922.

COUPLING BANDAIDS, FITTINGS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AND COATINGS (WHERE APPLICABLE) AS THE PIPE.

CONNECTIONS - ALL CONNECTIONS BETWEEN PIPES AND STRUCTURES MUST BE COMPLETELY WATER TIGHT. ALL CONNECTIONS SHALL USE A RUBBER OR NEOPRENE GASKET WHEN JOINTING PIPE SECTIONS.

CONNECTIONS TO NEW OR EXISTING CORRUGATED PIPES SHALL ONLY BE MADE WITH AN ADEQUATE NUMBER OF ANGULAR CORNUATIONS TO ACCOMMODATE THE COUPLING BANDWIDTH.

**BEDDING** - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH, WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT. BACKFILLING SHALL CONFORM TO STRUCTURE BACKFILL REQUIREMENTS.

**STONE FILL OR ROCK BORROW**  
STONE FILL AND ROCK BORROW SHALL MEET THE REQUIREMENTS OF SECTION 703.05 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

GEOTEXTILE SHALL BE PLACED UNDER ALL STONE FILL AND ROCK BORROW, AND SHALL MEET THE REQUIREMENTS OF SECTION 720 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

**CARE OF WATER DURING CONSTRUCTION**

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DAMS, LEVES, COFFERDAMS, DRAINAGE CHANNELS, AND DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE WORK AREA OR MAINTAINING THE EXCAVATIONS, FOUNDATIONS, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED, AND SHALL NOT INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE.

THE REMOVAL OF WATER SHALL BE ACCOMPLISHED IN A MANNER THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTION OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION.

**STABILIZATION**

ALL DISTURBED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS OR STONE SURFACE SHALL BE STABILIZED WITH NEW VEGETATIVE COVER.

SEE TURF ESTABLISHMENT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

**TURF ESTABLISHMENT SPECIFICATIONS**

ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS SURFACE (PAVEMENT OR WALKS), STONE FILL/BORROW, OR ARE NOT LANDSCAPED WITH BARK MULCH, SHALL BE STABILIZED WITH NEW GRASS COVER.

ALL SEEDING AND MULCHING FOR ESTABLISHING NEW GRASS COVER SHALL BE COMPLETED AFTER APRIL 15 (AS SITE CONDITIONS ALLOW) AND PRIOR TO SEPTEMBER 15. PLACEMENT OF TOPSOIL AND THE APPLICATION OF SEED, FERTILIZER, LIME (WHERE APPLICABLE), AND MULCH SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- A MINIMUM OF 4" OF APPROVED TOPSOIL SHALL BE PLACED IN ALL AREAS. PLACEMENT OF TOPSOIL SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN, EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DETRIMENTAL TO THE WORK. FOLLOWING PLACEMENT OF TOPSOIL, THE SURFACE SHALL BE RAKED. ALL STONES, LUMPS, ROOTS, OR OTHER OBJECTIONAL MATERIAL SHALL BE REMOVED.
- SEED MIXTURE (SEE BELOW) SHALL BE SPREAD UNIFORMLY IN ALL AREAS AT THE SPECIFIED RATE.
- FERTILIZER SHALL BE APPLIED ONLY AFTER PERFORMING A SOIL TEST AND BE APPLIED BASED UPON SOIL DEFICIENCIES. LIME SHALL ONLY BE APPLIED AS NEEDED BASED UPON A SOIL pH TEST.
- MULCHING SHALL IMMEDIATELY FOLLOW THE SEEDING OPERATION. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A MINIMUM RATE OF 2 TONS PER ACRE. SITE CONDITIONS MAY WARRANT THE APPLICATION OF A TACKLER OR NETTING TO HOLD THE MULCH IN PLACE. IF NECESSARY TO RETAIN THE MULCH, THE CONTRACTOR SHALL APPLY AN APPROVED TACKLER, OR NETTING, WITHOUT ADDITIONAL COST TO THE OWNER.
- HYDROSEEDING MAY BE USED IN LIEU OF SEEDING AND APPLYING HAY MULCH DURING THE GROWING SEASON. HYDROSEEDING SHALL INCLUDE THE APPLICATION OF WOOD AND/OR PAPER BINDER MULCH. THE BINDER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, BUT SHALL NOT BE LESS THAN 1500 POUNDS PER ACRE ON SLOPES LESS THAN 15%, AND NOT LESS THAN 2000 POUNDS PER ACRE ON SLOPES GREATER THAN 15%. HYDROSEEDING ALONE SHALL NOT BE USED FOR TEMPORARY STABILIZATION AFTER SEPTEMBER 15.
- ALL SLOPES STEEPER THAN 3H:1V SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. ALL DITCH CENTERLINE GRADES GREATER THAN 2% OR AS SHOWN ON THE PLANS SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. EROSION MATTING SHALL CONSIST OF EROSION CONTROL BLANKET WITH 100% AGRICULTURAL STRAW MATRIX STITCH BOUND WITH DEGRADABLE THREAD BETWEEN TWO PHOTOGRADABLE POLYPROPYLENE NETTINGS, NORTH AMERICAN GREEN S150 OR EQUAL, NORTH AMERICAN GREEN S150 MAY BE USED IN LAWN AREAS, ONLY WHEN SEEDING TAKES PLACE PRIOR TO SEPTEMBER 1.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS IN ALL DISTURBED AREAS TO BE RE-VEGETATED. VEGETATION GROWTH SHALL BE PERMANENT AND SUFFICIENT TO PREVENT EROSION OF THE UNDERLYING SOIL UNDER ALL CONDITIONS OF PRECIPITATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND CARING FOR SEEDING, MULCHING, AND AREAS OF ESTABLISHED VEGETATION UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER.

**SEED MIX SPECIFICATIONS**

CONSERVATION SEED MIX SHALL BE USED IN ALL DISTURBED AREAS.

POND SIDESLOPES DISTURBED DURING CONSTRUCTION SHALL HAVE CONSERVATION MIX AND WETLAND SEED MIX APPLIED. THE WETLAND SEED MIX NEED ONLY BE APPLIED TO THE POND SIDESLOPE EXTENDING TO 5 VERTICAL FEET ABOVE THE NORMAL WATER LEVEL OF THE POND.

WETLAND SEED MIX SHALL BE APPLIED TO THE BARBATED PORTIONS OF THE WET SWALE. THE GRASS SWALE SHALL BE SEEDING WITH CONSERVATION MIX.

WETLAND SEED MIX SHALL BE OBTAINED FROM NEW ENGLAND WETLAND PLANTS, INC. WWW.NEWP.COM

CONSERVATION MIX GRASS SEED		
% BY WEIGHT	LB LIVE SEED PER ACRE	TYPE OF SEED
35	35	CREeping RED FESCUE
23	23	KENTUCKY BLUEGRASS
15	15	ANNUAL RYE
11	11	WINTER HARDY, PERENNIAL RYE (VARIETY FEMINIE, MANAYATAH OR SIMILAR VARIETY)
6	6	WHITE CLOVER
10	10	HIGHLAND BENTGRASS
100	100	LIVE SEED / ACRE

**NEW ENGLAND WETMIX (WETLAND SEED MIX)**  
APPLICATION RATE: 1 LB PER 2500 SF OR 18 LBS PER ACRE  
AVAILABLE FROM: NEW ENGLAND WETLAND PLANTS, INC. 820 WEST STREET ANDREWS PT, MA 01902 415-248-5000 WWW.NEWP.COM

**STUMP DISPOSAL SPECIFICATIONS**

THE DECIDUOUS TREES THAT MUST BE CUT WILL BE USED AS FIREWOOD. THE STUMPS, BRUSH, AND EXCESS UNSUITABLE EARTH WILL BE DISPOSED OF AT A SUITABLE OFF-SITE LOCATION DESIGNATED AS A STUMP DISPOSAL AREA WELL ABOVE THE SEASONAL HIGH WATER OR MAILED OFF-SITE TO A STATE-APPROVED LANDFILL. STUMP DISPOSAL AREAS SHALL CONFORM WITH THE FOLLOWING GUIDELINES:

- WHENEVER POSSIBLE, STUMP DISPOSAL SITES SHOULD BE LOCATED ON NEARLY LEVEL TO MODERATELY SLOPING LANDS (SLOPES LESS THAN 2%).
- DISPOSAL SITES WILL NOT BE LOCATED IN OR WITHIN 100 FEET OF FLOWING WATERCOURSES OR STREAMS OR IN ACTIVELY ERODING GULLIES.
- DISPOSAL SITES SHALL NOT BE LOCATED IN FLOODED OR FLOOD-PRONE LANDS, WETLANDS, MARSHES, OR OTHER ACQUIFER RECHARGE AREAS.
- STUMPS WILL BE PLACED ON THE SITE IN A SINGLE LIFT PRIOR TO BACKFILLING. WHEN ADDITIONAL STUMPS ARE TO BE DEPOSITED ON THE SAME SITE, EACH SUCCESSIVE LAYER OR LIFT OF STUMPS WILL BE BACKFILLED.
- A MINIMUM OF TWO FEET (2") OF OVERBURDEN WILL BE PLACED OVER ALL DISPOSAL SITES.

**DEWATERING SPECIFICATIONS**

THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND EXECUTING A DEWATERING PLAN THAT IS CORRESPONDENT WITH THE WORK PROPOSED AND THAT PREVENTS THE DISCHARGE OF SEDIMENT TO WATERS OF THE STATE. THE CONTRACTOR'S WORK PLAN AND DEWATERING PLAN SHALL CONSIDER BOTH BASE FLOW AND THE FORECAST FOR PRECIPITATION.

TO THE EXTENT POSSIBLE, THE CONTRACTOR SHALL PLAN THE WORK AND THE SEQUENCE OF THEIR OPERATIONS TO MINIMIZE THE NEED FOR, AND DURATION OF, DEWATERING OF THE WORK AREA. THIS MAY INCLUDE THE CONSTRUCTION OF TEMPORARY STABILIZED STORMWATER CONVEYANCES AND / OR BARRIERS TO SEPARATE RUNOFF FROM THE WORK AREA.

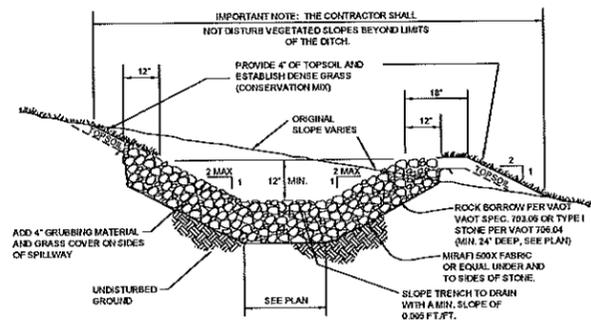
WHERE POSSIBLE, UPGRADENT RUNOFF SHALL BE DIVERTED AWAY FROM THE WORK AREA. THIS SHALL INCLUDE BYPASS PUMPING TO DIVERT FLOW IN THE STORMWATER COLLECTION PIPING AWAY FROM THE STORMWATER POND WHILE UNDER CONSTRUCTION. THE DISCHARGE LOCATION(S) OF DIVERTED RUNOFF SHALL BE MONITORED FOR STABILITY OR EROSION PROBLEMS PRIOR TO, DURING AND FOLLOWING THE DIVERSION OF RUNOFF.

THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE METHODS TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE WORK AREA AS WELL AS EROSION PREVENTION MEASURES AT THE PROPOSED DISCHARGE LOCATION(S). EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE BASED UPON THE CONTRACTOR'S SITE SPECIFIC WORK PLAN AND DEWATERING PLAN MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, ONE OR MORE OF THE FOLLOWING:

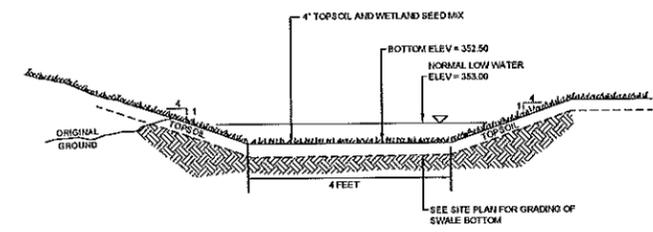
- TEMPORARY SUMP / DEWATERING PIT
- TEMPORARY SEDIMENT TRAP OR BASIN
- GEOTEXTILE BAGS OR TUBES
- VEGETATED FILTER STRIP
- TEMPORARY DISPERSION DEVICE / FLOW SPREADER
- TEMPORARY STORMWATER CONVEYANCES (PIPING AND/OR STABILIZED DITCHES)

ALL SEDIMENT COLLECTED DURING DEWATERING OR DURING THE TREATMENT OF DISCHARGE FROM DEWATERING OPERATIONS SHALL BE PLACED IN AN UPLAND LOCATION (OUTSIDE OF WETLANDS AND BUFFERS AND AT LEAST 100 FEET FROM ANY STREAMS) AND PERMANENTLY STABILIZED.

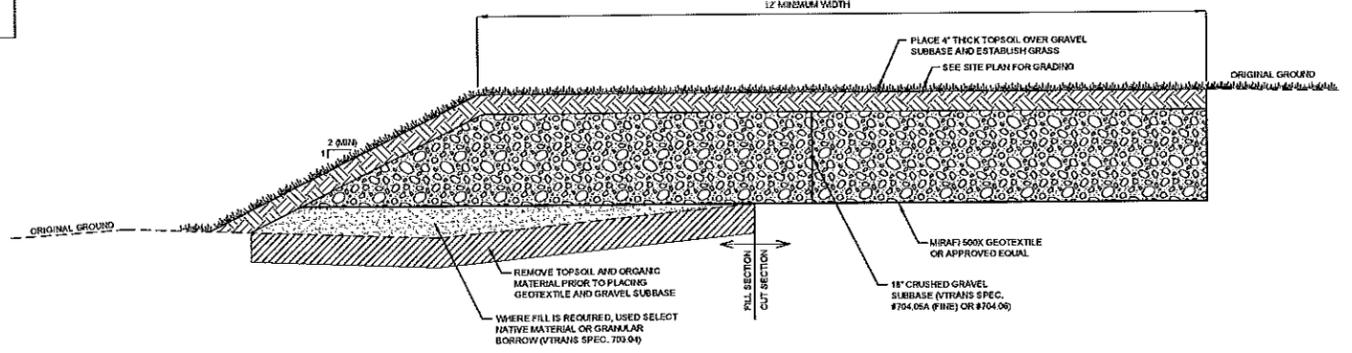
**VAOT SPEC. 703.05 - ROCK BORROW**  
ROCK BORROW SHALL CONSIST OF BLASTED ROCK BROKEN INTO VARIOUS SIZES THAT WILL FORM A COMPACT EMBANKMENT WITH A MINIMUM OF VOIDS. THE MAXIMUM SIZE SHALL BE 36 INCHES IN ITS WIDEST DIMENSION AND THAT SIZE WHICH MAY BE INCORPORATED INTO A 24 INCH LAYER OF ROCK EMBANKMENT.



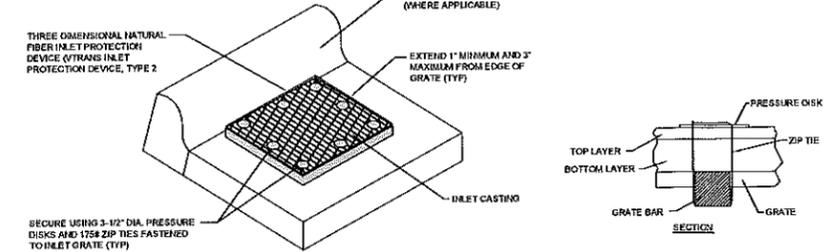
**TYPICAL STONE DITCH OR SPILLWAY DETAIL**



**WET SWALE TYPICAL SECTION**



**TYPICAL STABILIZED TURF ACCESS DRIVE**



**INLET PROTECTION**

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT # DP 18-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2018, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE 1 DAY OF 2018.

*[Signature]*

DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

Date	Revision	By
These plans shall only be used for the purpose shown below:		
<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review	
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction	
<input checked="" type="checkbox"/> Final Local Review	<input type="checkbox"/> Record Drawing	

**Meadow Run & Forest Run Neighborhood Stormwater Improvement Project**  
Meadowrun Road, Forest Run Road, & Whitewater Circle

**TYPICAL DETAILS & SPECIFICATIONS**

Lamoureux & Dickinson Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com

Project No. 14057  
Survey -  
Design L&D  
Draw L&D  
Checked ABR/DLG  
Date 03-01-16  
Scale AS NOTED  
Sheet number 7

DP # 16-26 TAX PARCELS: COM.012.a COM.012.b COM.013.a

**EROSION CONTROL BLANKET STABILIZATION NOTES**

- INSTALL WHERE SHOWN ON PLANS.
- CONTRACTOR SHALL USE BIODEGRADABLE STAKES FOR EROSION CONTROL WHERE STAKES ARE NOT ACCEPTABLE.
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF FERTILIZER AND SEED.
- BEFORE AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 4" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET DETACHED BEHIND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF BIODEGRADABLE STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FIELD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF BIODEGRADABLE STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING BIODEGRADABLE STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIMAL CUT SYSTEM, BIODEGRADABLE STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED ZONES CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF MANHOLE BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-5" OVERLAP BEYOND THE MANHOLE TIE. TO ENSURE PROPER SEAL ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET BEING INSTALLED ON TOP EVEN WITH THE COLORED SEAL ZONE ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (BRIDGE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART ACROSS OVERLAP WIDTH.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

TYPE	SLOPE (%)	BLANKET DESCRIPTION	MODEL NO.
A	4%-15%	DOUBLE NET STAPLE BLANKET	NORTH AMERICAN GREEN ST150 OR EQUAL
B	15%-25%	DOUBLE NET STAPLE BLANKET	NORTH AMERICAN GREEN ST250 OR EQUAL
C	25%-1:1	DOUBLE NET BLANKET FOR SLOPE/SOIL CONDITION	NORTH AMERICAN GREEN ST250 OR EQUAL
D	1:1 OR GREATER	DOUBLE NET COCONUT BLANKET	NORTH AMERICAN GREEN C125 OR EQUAL

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # F-3 DRAWN BY: FABA  
EROSION CONTROL BLANKET DETAIL

**SECTION F-1**  
SCALE: NOT TO SCALE

**SILT FENCE NOTES:**

- SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR APPROVED EQUAL.
- INSTALL WHERE SHOWN ON PLANS. THE FENCE SHALL BE INSTALLED PARALLEL TO CONTOURS WHERE POSSIBLE. THE ENDS OF THE FENCE SHOULD BE CURVED UPHILL TO PREVENT FLOW AROUND THE ENDS.
- SECTIONS OF THE SILT FENCE SHALL BE JOINED TO OVERLAP BY FOLDING FABRIC AROUND EACH POST ONE FULL TURN. DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OR BUILT-UP SEDIMENT AT JOINT.
- INSPECT ALL SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EACH RAINFALL. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN SEDIMENT REACHES 1/3 HEIGHT OF SILT FENCE.
- UPON FINAL STABILIZATION OF THE AREA UPHILL OF THE FABRIC, THE FABRIC SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # F-1 DRAWN BY: FABA  
TEMPORARY SILT FENCE DETAIL

**SECTION F-1**  
SCALE: NOT TO SCALE

**STORM PIPE TRENCH DETAIL**

**NOTES:**

- NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PVC PIPE TO ENSURE PIPE IS NOT DAMAGED.
- BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.
- FOR INITIAL BACKFILL, CONTRACTOR CAN USE 3/4" CRUSHED STONE OR SAND BORROW.

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # D-1 DRAWN BY: FABA  
STORM PIPE TRENCH DETAIL

**SECTION F-1**  
SCALE: NOT TO SCALE

**CATCH BASIN DETAIL**

**NOTES:**

- PROVIDE FLANGE GRADE AND FRAME.
- CONCRETE-4,000 psi; STEEL REBAR-40,000 psi
- STRUCTURES SHALL BE DESIGNED TO WITHSTAND AN H-20 LOADING.

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # D-4 DRAWN BY: FABA  
CATCH BASIN DETAIL

**STORM SEWER OUTFALL DETAIL**

**NOTES:**

- PROVIDE MINIMUM 18" WIDTH OF RIP-RAP OR DIA. ±5 WHICHEVER IS GREATER.

PART#	PIPE SIZE	A	B (MAX)	H	L	W
1210HP	12 in. (300 mm)	6.5 in. (165 mm)	10.0 in. (254 mm)	6.5 in. (165 mm)	25.0 in. (635 mm)	29.0 in. (737 mm)
1510HP	15 in. (375 mm)	6.5 in. (165 mm)	10.0 in. (254 mm)	6.5 in. (165 mm)	25.0 in. (635 mm)	29.0 in. (737 mm)
1810HP	18 in. (450 mm)	7.5 in. (191 mm)	10.0 in. (254 mm)	6.5 in. (165 mm)	32 in. (813 mm)	35.0 in. (889 mm)
2410HP	24 in. (600 mm)	7.5 in. (191 mm)	18.0 in. (457 mm)	6.5 in. (165 mm)	36 in. (914 mm)	45.0 in. (1143 mm)
3015HP	30 in. (750 mm)	7.5 in. (191 mm)	12.0 in. (305 mm)	8.6 in. (218 mm)	58.0 in. (1473 mm)	63.0 in. (1600 mm)
3615HP	36 in. (900 mm)	7.5 in. (191 mm)	25.0 in. (635 mm)	8.6 in. (218 mm)	58.0 in. (1473 mm)	63.0 in. (1600 mm)

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # D-5 DRAWN BY: FABA  
STORM SEWER OUTFALL DETAIL

**SECTION**  
SCALE: NONE

**PLAN**  
SCALE: NONE

**STABILIZED CONSTRUCTION ENTRANCE NOTES:**

- LENGTH (L) SHALL BE 40' MINIMUM WHERE SUFFICIENT SPACE IS AVAILABLE.
- WIDTH (W) SHALL NOT BE LESS THAN 24'.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE, WHICH DRAINS INTO APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF METHODS AS APPROVED BY THE ENGINEER.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # F-4 DRAWN BY: FABA  
STABILIZED CONSTRUCTION ENTRANCE DETAIL

**SECTION**  
SCALE: NONE

**TYPICAL CONCRETE CURB/SIDEWALK**

**TOWN OF WILLISTON  
PUBLIC WORKS DEPARTMENT**  
SCALE: NTS DATE: APRIL 2010  
DRAWING # E-14 DRAWN BY: FABA  
TYPICAL CONCRETE CURB/SIDEWALK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT # DP-16-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2016, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE 1 DAY OF MAY, 2017.

*R. Zell*  
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

Date	Revision	By

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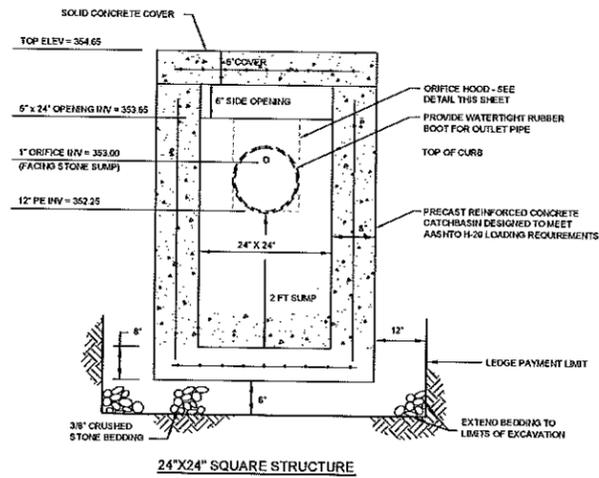
<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input checked="" type="checkbox"/> Final Local Review	<input type="checkbox"/> Record Drawing

**Meadow Run & Forest Run  
Neighborhood Stormwater  
Improvement Project**  
Meadowrun Road, Forest Run Road, & Whitewater Circle

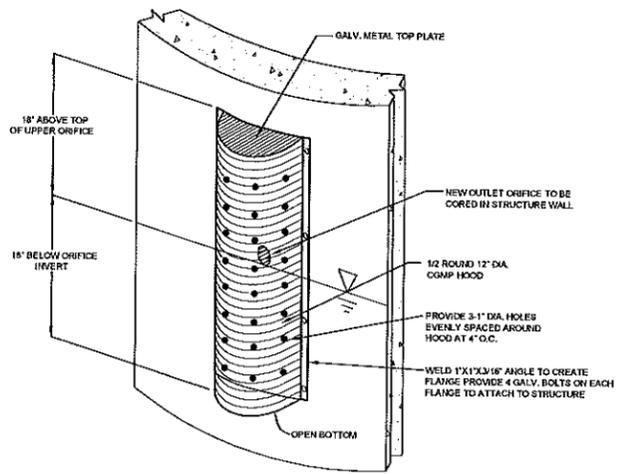
**DETAILS & SPECIFICATIONS  
DPW STANDARDS**

Project No. 14057	Design L&D
Survey	Checked ABR/DLG
Date 03-01-16	Scale AS NOTED
Sheet number 8	

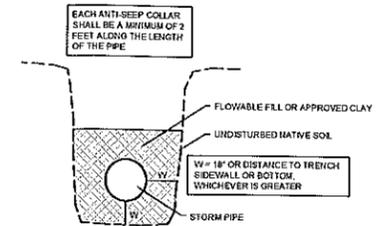
DP # 16-26  
TAX PARCELS: COM.012.a COM.012.b COM.013.a



**24"X24" SQUARE STRUCTURE**  
**WET SWALE OUTLET STRUCTURE**  
 NTS

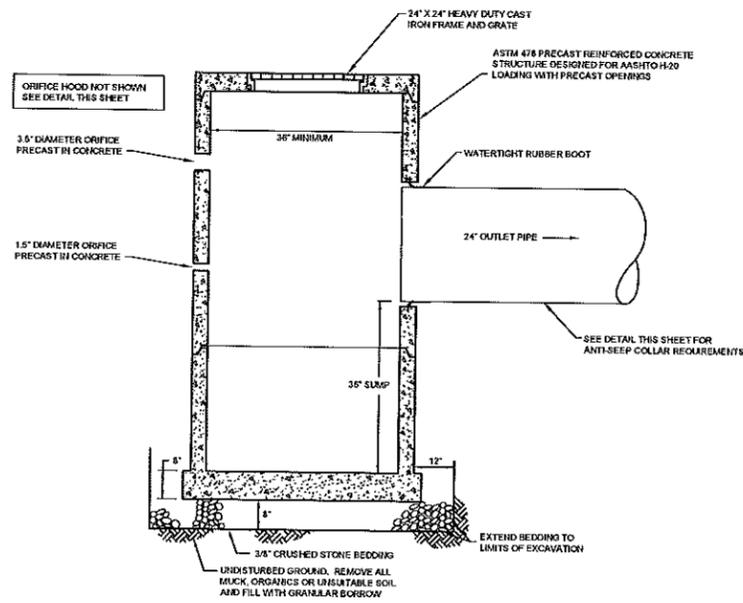


**BASEIN OUTLET STRUCTURE ORIFICE HOOD**  
 NTS

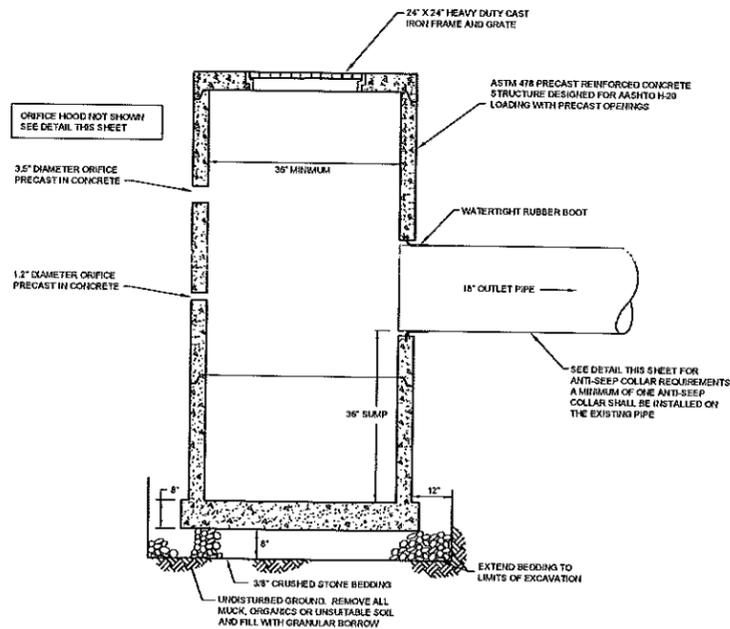


1. A MINIMUM OF THREE ANTI-SEEP COLLARS SHALL BE INSTALLED ON THE NEW OUTLET PIPE FROM THE WHITEWATER CIRCLE STORMWATER POND. ONE NEW ANTI-SEEP COLLAR SHALL BE INSTALLED ON THE EXISTING OUTLET PIPE FROM THE FOREST RUN ROAD STORMWATER POND.
2. THE COLLAR SHALL BE CONSTRUCTED WITH FLOWABLE FILL (250 PSI CONCRETE) OR APPROVED CLAY.
3. PAYMENT FOR THE ANTI-SEEP COLLARS SHALL BE CONSIDERED SUBSIDIARY TO THE STORMWATER PIPE INSTALLATION.

**ANTI-SEEP COLLAR**  
 NTS



**WHITWATER CIRCLE**  
**POND OUTLET STRUCTURE**  
 NTS



**FOREST RUN ROAD**  
**POND OUTLET STRUCTURE**  
 NTS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT #DP 16-26, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON NOVEMBER 22, 2016, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR MEADOW RUN / FOREST RUN ON THE 1 DAY OF MAY, 2017.

*K. Balch*  
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

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<input checked="" type="checkbox"/> Final Local Review	<input type="checkbox"/> Record Drawing	
<b>Meadow Run &amp; Forest Run            Neighborhood Stormwater            Improvement Project</b> Meadowrun Road, Forest Run Road, & Whitewater Circle		
<b>STORMWATER STRUCTURE            DETAILS</b>		
Project No. 14057	Survey	
Design L&D	Drawn L&D	
Date 03-01-16	Checked ABR/DLG	
Scale AS NOTED	Sheet number 9	

**LD** Lamoureux & Dickinson  
 Consulting Engineers, Inc.  
 14 Morse Drive, Essex, VT 05452  
 802-878-4450 www.LDengineering.com

DP # 16-26  
 TAX PARCELS: COM.012.a COM.012.b COM.013a