



**State of Vermont
Policy, Planning & Intermodal Development Division
Policy, Planning and Research Bureau
Development Review & Permitting Services Section**

One National Life Drive
Montpelier, VT 05633-5001
vtrans.vermont.gov

[phone] 802-828-2653
[fax] 802-828-2456
[ttd] 800-253-0191

Agency of Transportation

May 4, 2015

Timothy A. McBain
78 Ridge Road
Mendon, VT 05701

Subject: Mendon, US4, L.S. 62+20 RT

Dear Mr. McBain:

Your application for a permit to work within the State Highway right-of-way to construct an access to serve a mini-golf course and snack bar and minor grading, at the location indicated above, has been processed by this office and is enclosed.

Please contact the District Transportation Office #3 prior to starting work in the state highway right-of-way. The telephone number in Mendon is (802) 786-5826.

Sincerely,

A handwritten signature in cursive script that reads "Theresa C. Gilman".

Theresa Gilman
Permitting Services Supervisor
Permitting Services

Enclosures

cc: District Transportation Office #3
Nicole Kesselring, Enman-Kesselring Consulting Engineers

PERMIT ID# 39498

FOR AGENCY USE ONLY

Town: MENDEL

Route: 44

Mile Marker: 1.18

Log Station: 62+20 FT

VERMONT AGENCY OF TRANSPORTATION
19 V.S.A. § 1111 PERMIT APPLICATION

Owner's/Applicant's Name, Address & Phone No. Timothy A. McBain 78 Ridge Road
Mendon VT 05701 (802) 775-7499

Co-Applicant's Name, Address & Phone No. (if different from above)

The location of work (town, highway route, distance to nearest mile marker or intersection & which side)

Mendon, US Route 4 on South side, across from Meadowlake Drive
Description of work to be performed in the highway right-of-way (attach sketch) New Access point to New
Business parking lot. Gravel Driveway from US Route 4 to parking
lot on business property.

Property Deed Reference Book: 97 Page: 994-996 (only required for Permit Application for access)

Is a Zoning Permit required? Yes No - If Yes, #

Is a 30 VSA § 248 permit required? Yes No - If Yes, #

Is an Act 250 permit required? Yes No - If Yes, #

Other permit(s) required? Yes No - If Yes, name and # of each

Date applicant expects work to begin 4/1/15 2015

Owner/Applicant: Timothy A. McBain Position Title: Owner
(Print name above)

Sign in Shaded area:

TAM

Date: 1/19/15

Co-Applicant: _____

Position Title: _____

(Print name above)

Sign in Shaded area:

Date: _____

INSTRUCTIONS:

-Contact the Agency of Transportation Utilities and Permits Unit (802.828.2653) or your local area Agency Transportation Maintenance District to determine your issuing authority.

-Contact the issuing authority to determine what plans and other documents are required to be submitted with your 19 VSA § 1111 permit application.

-Complete this TA 210 Form (some information may not apply to you) and attach all necessary documents and submit it to the issuing authority. We require this application to be signed by the property owner or their legally authorized representative. Original signatures are required.

-The Owner/Applicant and Co-Applicant (if applicable) declares under the pains and penalty of perjury that all information provided on this form and submitted attachments are to the best of their knowledge true and complete.

-If you have any questions contact the issuing authority.

PERMIT APPROVAL

This covers only the work described below: Permission is granted to work within the state highway right-of-way to construct an access to serve a mini-golf course and snack bar an associated grading. All work shall be in accordance with the attached plan and permit special conditions.

The work is subject to the restrictions and conditions on the reverse page, plus the Special Conditions stated on the attached page(s).

Date work is to be completed November 30, 2015

Date work accepted: _____

By Lawrence Sullivan Issued Date May 4, 2015
Authorized Representative for
Secretary of Transportation

By: _____
DTA or Designee

NOTICE: This permit covers only the Vermont Agency of Transportation's jurisdiction over this highway under Title 19 Section 1111 VSA. It does not release the petitioner from the requirements of any other statutes, ordinances, rules or regulations.

No work shall be done under this permit until the owner/applicant has contacted the District Transportation Office at:

RESTRICTIONS AND CONDITIONS

NOV 22 2015

DEFINITIONS:

"Agency" means the Vermont Agency of Transportation.

"Engineer" means the authorized agent of the Secretary of Transportation.

"Owner/Applicant" means the party(s) to whom the permit is to be issued.

"Co-Applicant" means the party who performs the work, if other than Owner/Applicant.

"Permit Holder" means the party who currently owns the lands abutting the highway that are the subject of the permit.

GENERAL:

By accepting this permit, or doing any work hereunder, the Owner/Applicant agrees to comply with all of the conditions and restrictions and any imposed special conditions. If the Owner/Applicant is aggrieved by the restrictions and conditions or special conditions of the permit, they shall submit a written request for consideration to the Engineer prior to starting any work. No work will be authorized by the Agency, or performed under the permit, until the dispute is fully resolved.

Act No. 86 of 1987 (30 VSA Chapter 86) ("Dig Safe") requires that notice be given prior to making an excavation. It is suggested that the Permit Holder or his/her contractor telephone 1-888-344-7233 at least 48 hours before, and not more than 30 days before, beginning any excavation at any location.

The Permit Holder is to have a supervisory representative present any time work is being done in or on the State Highway right-of-way. A copy of this permit and Special Conditions must be in the possession of the individual performing this work for the Permit Holder.

Except with the specific, written permission of the District Transportation Administrator, all work in the State highway right-of-way shall be performed during normal daylight hours and shall cease on Sunday, on all holidays (which shall include the day before and the day following), during or after severe storms, and between December 1 and April 15. These limitations will not apply for the purposes of maintenance, emergency repairs, or proper protections of the work which includes, but not limited to, the curbing of concrete and the repairing and servicing of equipment.

The Owner/Applicant shall be responsible for all damages to persons or property resulting from any work done under this permit, even if the Applicant's Contractor performs the work. All references to the Owner/Applicant also pertain to the Co-Applicant. The Owner/Applicant must comply with all federal and state statutes or regulations and all local ordinances controlling occupancy of public highways. In the event of a conflict, the more restrictive provision shall apply.

The Owner/Applicant must, in every case where there is a possibility of injury to persons or property from blasting, use blasting mats and bags of sand, if necessary, to prevent the stone from scattering. All existing utility facilities shall be protected from damage or injury.

The Owner/Applicant shall erect and maintain barriers needed to protect the traveling public. The barriers shall be properly lighted at night.

The Owner/Applicant shall not do any work or place any obstacles within the state highway right-of-way, except as authorized by this permit.

The Owner/Applicant may pay the entire cost of the salary, subsistence and traveling expenses of any inspector appointed by the Engineer to supervise such work.

The Engineer may modify or revoke the permit at any time for safety-related reasons, without rendering the Agency or the State of Vermont liable in any way.

In addition to any other enforcement powers that may be provided for by the law, the Engineer may suspend this permit until compliance is obtained. If there is continued use or activity after suspension, the Engineer may physically close the work area and take corrective action to protect the safety of the highway users.

The Permit Holder shall be responsible to rebuild, repair, restore and make good all injuries or damage to any portion of the highway right-of-way that has been brought about by the execution of the permitted work, for a minimum period of eighteen (18) months after final inspection by the District.

Any variance from approved plans is to be recorded on "as-builts" with copies provided to both the Chief of Utilities and Permits and the District Transportation Administrator.

ACCESS:

This permit (if for access) does not become effective until the owner/applicant records in the office of the appropriate municipal clerk, the attached "Notice of Permit Action"

As development occurs on land abutting the highways, the Agency may revoke a permit for access and require the construction of other access improvements such as the combination of access points by adjoining owners.

Under Title 19, Section 1114, Vermont Statutes Annotated, no deed purporting to subdivide land abutting a state highway can be recorded unless all the abutting lots so created are in accordance with the standards of Section 1114.

The Permit Holder acknowledges and agrees that neither this permit nor any prior pattern of use creates an ownership interest or other form of right in a particular configuration or number of accesses to or through the highway right-of-way, and that the right of access consists merely of a right to reasonable access the general system of streets, and is not a right to the most convenient access or any specific configuration of access.

DRAINAGE:

The Owner/Applicant shall install catch basins and outlets as may be necessary, in the opinion of the Engineer, to preclude interference with the drainage of the state highway.

UTILITY WORK; CUTTING AND TRIMMING TREES:

The Owner/Applicant shall obtain the written consent of the adjoining owners or occupants or, in the alternative, an order from the State Transportation Board in accordance with Title 30, Section 2506, Vermont Statutes Annotated, regarding cutting of or injury to trees.

In general, all utilities shall be located adjacent to the highway right-of-way boundary line and shall be installed without damaging the highway or the highway right-of-way. No pole, push-brace, guy wire or other aboveground facilities shall be placed closer than 10 feet to the edge of traveled-way. If the proposed utility facilities are in conflict with the above, each location is subject to the approval of the Engineer.

Poles and appurtenances shall be located out of conflict with ditches and culverts.

Where the cutting or trimming of trees is authorized by permit, all debris resulting from such cutting and trimming shall be removed from the highway right-of-way.

Open cut excavation for highway crossings is NOT the option of the Applicant, and may be utilized only where attempted jacking, drilling, or tunneling methods fail or are impractical. The Owner/Applicant shall obtain an appropriate modification of the highway permit from the Engineer before making an open cut.

JOINT PERMITS:

A joint permit application is required when more than one party will be involved with the construction, maintenance, and/or operation of the facility being constructed under this permit. Examples include, but are not limited to, joint ownership or occupancy of a utility pole line and construction of a municipal utility line by a contractor. Both utility companies, and in the second case, the municipality and the contractor, must be joint applicants.

Timothy A. McBain
Mendon, US4, L.S. 62+20 RT
May 4, 2015
Page 1 of 5

SPECIAL CONDITIONS

This permit is granted subject to the restrictions and conditions on the back of the permit, with particular attention given to the Special Conditions listed below. This permit pertains only to the authority exercised by the Vermont Agency of Transportation (Agency) under Vermont Statutes Annotated, Title 19, Section 1111, and does not relieve the Permit Holder from the requirements of otherwise applicable statutes, rules, regulations or ordinances (e.g., Act 250, zoning, etc.). The Permit Holder shall observe and comply with all Federal and State laws and local bylaws, ordinances, and regulations in any manner affecting the conduct of the work and the action or operation of those engaged in the work, including all orders or decrees as exist at present and those which may be enacted later by bodies or tribunals having jurisdiction or authority over the work, and the Permit Holder shall defend, indemnify, and save harmless the State and all its officers, agents, and employees against any claim or liability arising from or based on the violation of any such law, bylaws, ordinances, regulations, order, or decree, whether by the Permit Holder in person, by an employee of the Permit Holder, by a person or entity hired by the Permit Holder, or by a Subcontractor or supplier.

The Permit Holder shall accomplish all work under this permit in accordance with detail C and the profile and notes of standard drawing B-71(copy attached) and the attached plan dated February 2, 2015.

A preconstruction meeting to discuss work to be completed must be held prior to the Permit Holder's employees or contractor beginning work. The Permit Holder is required to notify the District Transportation Administrator five (5) working days in advance of such meeting.

Please note that the many municipalities and the Vermont Agency of Transportation are not members of Dig Safe. The Permit Holder shall contact the local municipality and Tim Sweeney at VTrans, (802) 279-0585 so they may locate and mark all existing buried utility facilities owned near the location of the proposed work.

Roadway shoulder areas must be maintained free of unnecessary obstructions, including parked vehicles, at all times while work is being performed under this permit.

All grading within the State Highway right-of-way associated with the proposed construction shall be subject to inspection and approval by the District Transportation Administrator or his or her staff. The Permit Holder shall be responsible for ensuring that all grading work in or on the State Highway right-of-way complies with applicable statutes, rules, regulations or ordinances.

In areas to be grass covered, the Permit Holder shall restore turf by preparing the area and applying the necessary topsoil, limestone, fertilizer, seed, and mulch, all to the satisfaction of the District Transportation Administrator. The Permit Holder shall be responsible for ensuring that all turf restoration work in or on the State Highway right-of-way is in compliance with applicable statutes, rules, regulations or ordinances.

In the event that area lighting proves to be a hazard to the traveling public, the Permit Holder will be ordered to remove or modify it at his or her expense to the satisfaction of the District Transportation Administrator.

Upon completion of the work, the Permit Holder shall be responsible to schedule and hold a final inspection. The Permit Holder is required to notify the District Transportation Administrator five (5) working days in advance of such inspection.

Timothy A. McBain
Mendon, US4, L.S. 62+20 RT
May 4, 2015
Page 2 of 5

This permit does not become effective until the Permit Holder records, in the office of the appropriate municipal clerk, the attached "Notice of Permit Action".

The access must be constructed in such a manner as to prevent water from flowing onto the State Highway. If the access is not constructed satisfactorily, the District Transportation Administrator can order reconstruction of the access at the Permit Holder's expense.

This access will serve as the only access to this property and to any future subdivisions of this property unless approved otherwise by the Agency. The Permit Holder is required to allow a connection and to grant an associated right to pass between the access and adjoining properties (in the future) that will result in a combination of accesses to serve more than one property or lot. By issuance of this permit, the Agency revokes all previous permits for access to this property.

A new "Vermont Agency of Transportation approved" culvert shall be placed under the access. The size shall be 18" inches in diameter. The culvert shall be placed so that existing normal drainage flow is undisturbed and ponding is not created. The Permit Holder may have to excavate the roadside drainage ditch to accommodate the required culvert. Culvert location shall be staked, reviewed and approved by the District Transportation Administrator prior to installation. There shall be no headwalls allowed within the State Highway right-of-way on the ends of drive culverts.

In the event traffic from this project increases to the point where traffic signals, additional lanes for turning or any other modifications are necessary, the Permit Holder shall bear the expense of such improvements or facilities. The Agency may require the Permit Holder to update or provide a traffic study to determine if additional modifications are necessary.

The Permit Holder is responsible for access maintenance (beyond the edge of paved shoulder). "Access maintenance" will include, but not be limited to, the surface of the access, the replacement and maintenance of the culvert, as necessary, the trimming of vegetation, and the removal of snow banks to provide corner sight distance.

In conformance with Vermont Statutes Annotated, Title 19, Section 1111(f), the Agency may eliminate this access in the future where development has burdened the highway system to such an extent that a frontage road or other access improvements (which may serve more than one property or lot) must be constructed to alleviate this burden. The Permit Holder shall bear the expense of the frontage road or other access improvements. The Agency shall determine the need of a frontage road or other improvements based upon and justified by standard Agency procedures.

The Permit Holder shall pave the access (drive) from the edge of paved shoulder to the State Highway right-of-way.

In the event of the Permit Holder's failure to complete all the work, approved under this permit, by the "work completion date," the Agency, in addition to any other enforcement powers that may be provided for by law, may suspend this permit until compliance is obtained. If there is continued use or activity after suspension, the Agency may physically close the driveway or access point if, in the Agency's opinion, safety of highway users is or may be affected.

This permit only authorizes the Permit Holder's stormwater discharge from the defined area approved by the Agency and specified in the Permit Holder's application. The Permit Holder shall not connect (or allow the connection of) non-stormwater drainage systems, such as floor drains, to the stormwater management system that discharges to the Agency's stormwater management system.

Timothy A. McBain
Mendon, US4, L.S. 62+20 RT
May 4, 2015
Page 3 of 5

All stormwater from the defined area approved by the Agency to discharge into the State Highway right-of-way shall be pre-treated (to the maximum extent practicable on the Permit Holder's land) for water volume, velocity, and quality prior to discharging into the Agency's stormwater management system.

The Permit Holder shall erect and maintain all necessary site erosion prevention and sediment control measures to maintain compliance with Vermont Water Quality Standards within the State Highway right-of-way. All exposed earth areas having erosion potential must be temporarily or permanently stabilized within seven (7) days of disturbance or as necessary to prevent sediment from entering the Agency's State Highway stormwater management system. Slopes steeper than 1:3 shall make use of appropriate erosion matting.

The Permit Holder shall notify the Agency of any planned development or facility expansions or changes that may result in new or increased stormwater discharges. The Agency may require the Permit Holder to submit additional information on the proposed changes. The Agency may amend this permit and authorization to discharge, by requiring that the Permit Holder add to, modify, or replace the US4 stormwater management system, or may require the Permit Holder to seek a discharge point other than the State Highway right-of-way and the Agency's stormwater management system.

The Permit Holder shall verify the appropriate safety measures needed, prior to construction, so proper devices and/or personnel are available when and as needed. Traffic control devices, shall be in conformance with the MUTCD (Manual on Uniform Traffic Control Devices), Agency standards and any additional traffic control deemed necessary by the District Transportation Administrator. The Permit Holder's failure to utilize proper measures shall be considered sufficient grounds for the District Transportation Administrator to order cessation of the work immediately.

The Permit Holder will perform construction in such a way as to minimize conflicts with normal highway traffic. When two-way traffic cannot be maintained, the Permit Holder shall provide a sign package that conforms to the MUTCD (Manual on Uniform Traffic Control Devices) or Agency standards, as well as trained Flaggers. The District Transportation Administrator may require a similar sign package with trained Flaggers whenever it is deemed necessary for the protection of the traveling public. In addition, the District Transportation Administrator may require the presence of Uniform Traffic Officers (UTOs); moreover, the presence of UTOs shall not excuse the Permit Holder from its obligation to provide the sign package and Flaggers.

The Permit Holder shall ensure that all workers exposed to the risks of moving highway traffic and/or construction equipment wear high-visibility safety apparel meeting the requirements of ISEA (International Safety Equipment Association) "American National Standards for High-Visibility Safety Apparel," and labeled as ANSI (American National Standards Institute) 107-2004, or latest revisions, for Performance Class 2 or 3 requirements. A competent person - one designated by the Permit Holder's Contractor to be responsible for worker safety within the activity area of the State highway right-of-way - shall select the appropriate class of garment. The Engineer may suspend this permit until compliance is obtained.

Timothy A. McBain
Mendon, US4, L.S. 62+20 RT
May 4, 2015
Page 4 of 5

Independence; Liability: The Permit Holder will act in an independent capacity and not as officers or employees of the State.

The Permit Holder shall defend the State and its officers and employees against all claims or suits arising in whole or in part from any act or omission of the Permit Holder or of any agent of the Permit Holder. The State shall notify the Permit Holder in the event of any such claim or suit, and the Permit Holder shall immediately retain counsel and otherwise provide a complete defense against the entire claim or suit.

After a final judgment or settlement, the Permit Holder may request recoupment of specific defense costs and may file suit in the Washington Superior Court requesting recoupment. The Permit Holder shall be entitled to recoup costs only upon a showing that such costs were entirely unrelated to the defense of any claim arising from an act or omission of the Permit Holder.

The Permit Holder shall indemnify the State and its officers and employees in the event that the State, its officers or employees become legally obligated to pay any damages or losses arising from any act or omission of the Permit Holder.

Insurance: Before beginning any work under this Permit the Permit Holder must provide certificates of insurance to show that the following minimum coverages are in effect. It is the responsibility of the Permit Holder to maintain current certificates of insurance on file with the State for the duration of work under the Permit. No warranty is made that the coverages and limits listed herein are adequate to cover and protect the interests of the Permit Holder for the Permit Holder's operations. These are solely minimums that have been established to protect the interests of the State.

Workers Compensation: With respect to all operations performed under the Permit, the Permit Holder shall carry workers compensation insurance in accordance with the laws of the State of Vermont.

General Liability and Property Damage: With respect to all operations performed under the Permit, the Permit Holder shall carry general liability insurance having all major divisions of coverage including, but not limited to:

Premises - Operations
Products and Completed Operations
Personal Injury Liability
Contractual Liability

The policy shall be on an occurrence form and limits shall not be less than:

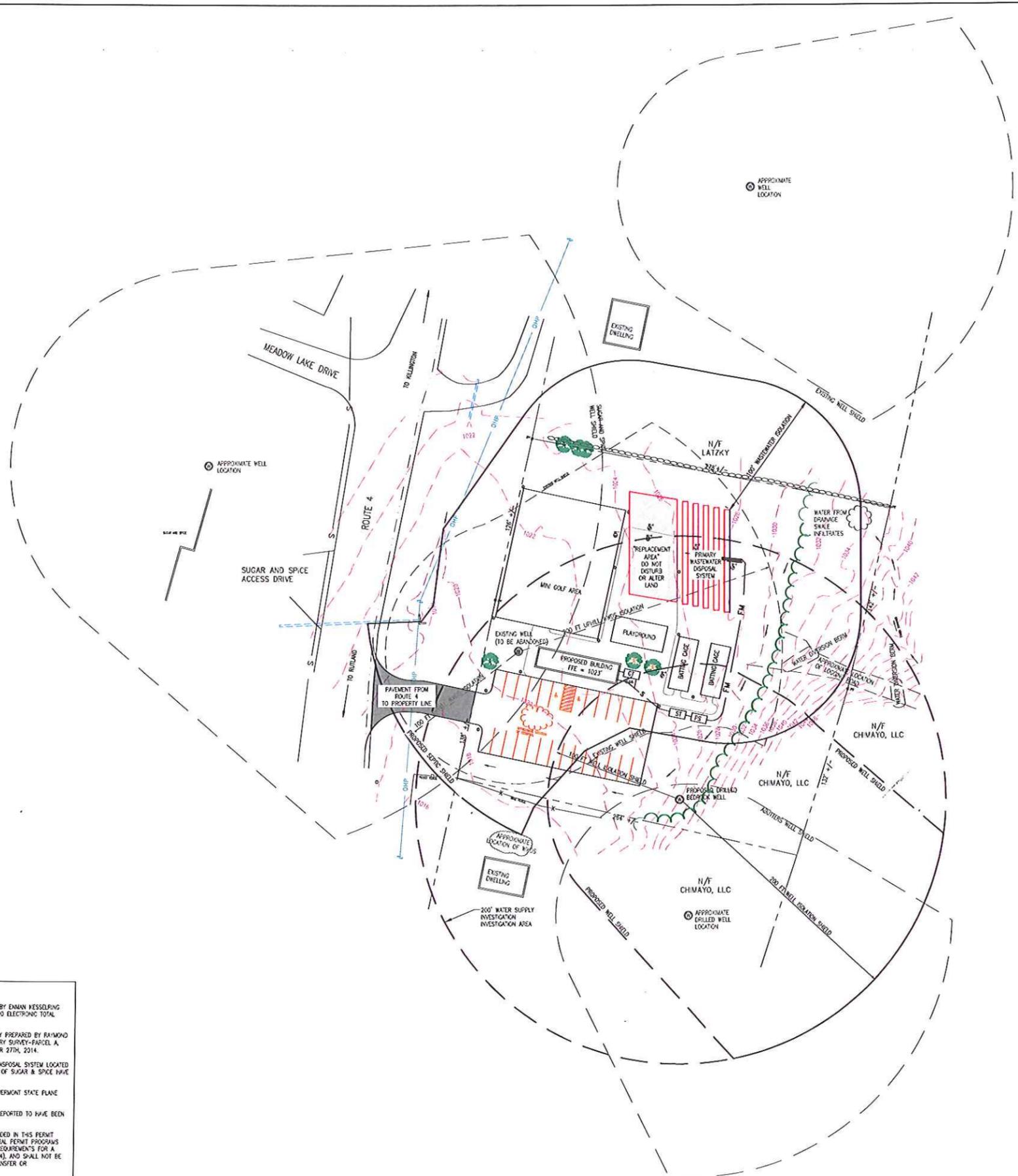
\$2,000,000 Per Occurrence
\$2,000,000 General Aggregate
\$2,000,000 Products/Completed Operations Aggregate
\$ 50,000 Fire/Legal Liability

Permit Holder shall name the State of Vermont and its officers and employees as additional insureds for liability arising out of this Permit.

Timothy A. McBain
Mendon, US4, L.S. 62+20 RT
May 4, 2015
Page 5 of 5

Automotive Liability: The Permit Holder shall carry automotive liability insurance covering all motor vehicles, including hired and non-owned coverage, used in connection with the Permit. Limits of coverage shall not be less than: \$1,000,000 combined single limit.

Permit Holder shall name the State of Vermont and its officers and employees as additional insureds for liability arising out of this Permit.



LOCATION PLAN

LEGEND

	APPROX. LOCATION OF PROPERTY LINE
	EXISTING CONTOUR
	EXISTING 10' CONTOUR
	EXISTING WATERLINE
	EXISTING SEWER LINE
	EXISTING FORCE MAIN
	EXISTING OVERHEAD UTILITY LINES
	EXISTING BURIED UTILITY LINES
	EXISTING TREE LINE
	STONE WALL
	EXISTING UTILITY POLE
	EXISTING GUY POLE
	EXISTING SIGN
	EXISTING HYDRANT
	EXISTING WATER SHUTOFF
	EXISTING SEWER MANHOLE
	SURVEY TURNING POINT
	BENCHMARK
	TEST PIT
	PERC TEST
	PROPOSED SEWER
	PROPOSED TREE LINE
	PROPOSED MANHOLE
	PROPOSED CLEANOUT
	PROPOSED HANDICAP PARKING SPACE

CREATION DATE: 2/2/15
 RELEASE DATE: 2/2/15

PERMIT REVIEW

REVISIONS:



THE CERTIFICATION ON THIS DRAWING ONLY INDICATES THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR PREPARATION AND IS NOT ISSUED FOR CONSTRUCTION UNLESS NOTED IN THE REVISION BOX.

REGULATORY APPROVAL STAMP

ENMAN • KESSELRING
 CONSULTING ENGINEERS
 Environmental • Civil
 61 Prospect Street
 Rutland, Vermont 05701
 www.EnmanEngineering.com
 (802)775-3437
 Copyright © 2015
 All rights reserved.

MENDON MINI GOLF

ROUTE 4
 MENDON, VERMONT

THESE PLANS ARE FOR THIS PROJECT ONLY AND ARE NOT FOR REUSE ON THIS PROJECT OR ANY OTHER PROJECT WITHOUT WRITTEN CONSENT OF ENMAN KESSELRING CONSULTING ENGINEERS P.C.

SITE LAYOUT PLAN

SCALE: AS NOTED

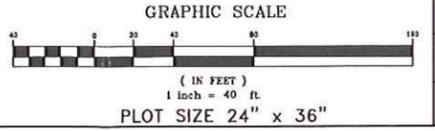
DESIGN BY: NSK/AFL

DRAWN BY: AFL

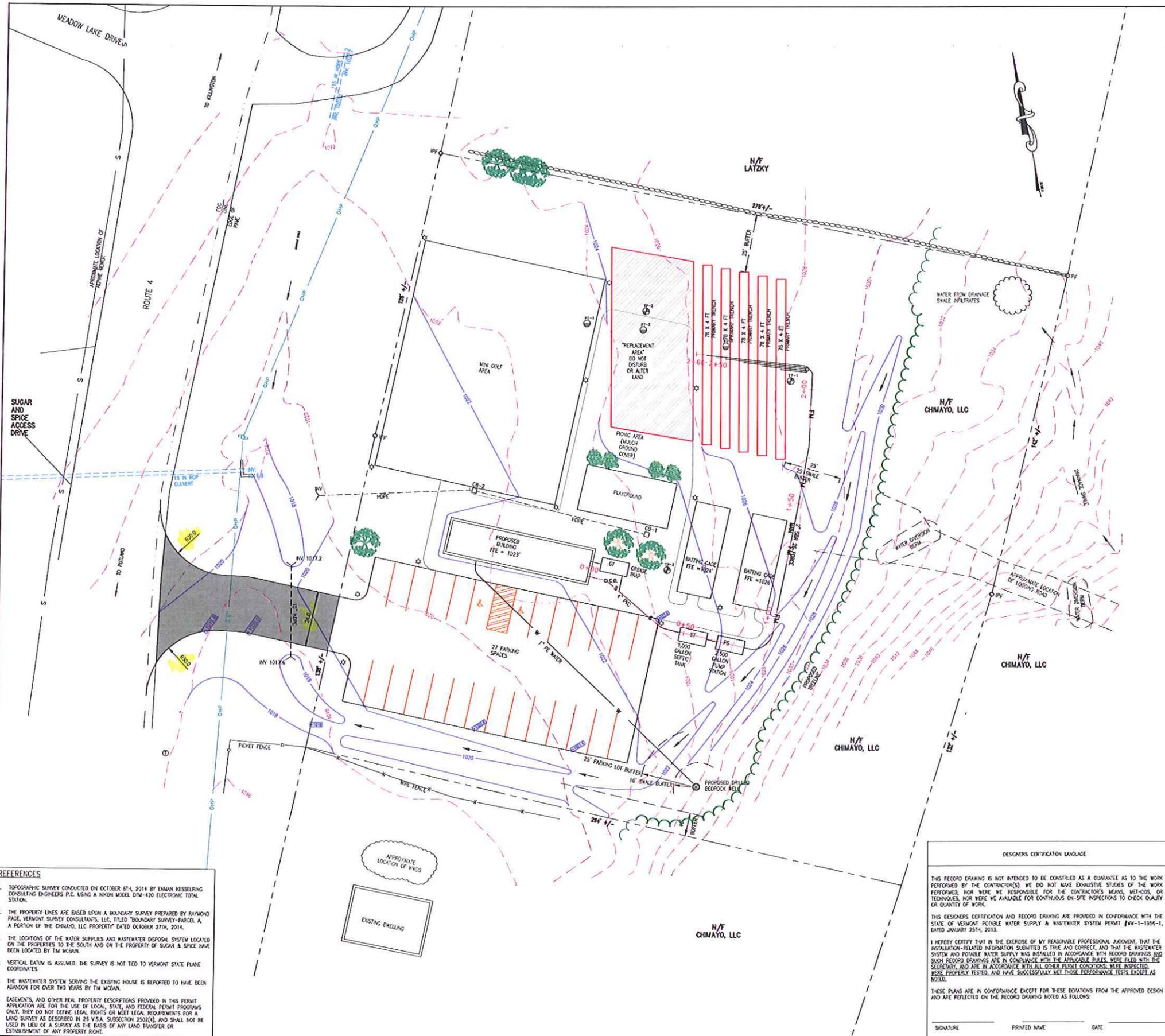
SHEET NO: C2

PROJECT NO: 1421

PERMIT # 39498
 RECEIVED
 APR 30 2015
 PERMITTING SERVICES



- REFERENCES**
1. TOPOGRAPHIC SURVEY CONDUCTED ON OCTOBER 8TH, 2014 BY ENMAN KESSELRING CONSULTING ENGINEERS P.C. USING A NIXON MODEL DTM-420 ELECTRONIC TOTAL STATION.
 2. THE PROPERTY LINES ARE BASED UPON A BOUNDARY SURVEY PREPARED BY RAMOND PAGE, VERMONT SURVEY CONSULTANTS, LLC, TITLED "BOUNDARY SURVEY-PARCEL A, A PORTION OF THE CHIMAYO, LLC PROPERTY" DATED OCTOBER 27TH, 2014.
 3. THE LOCATIONS OF THE WATER SUPPLIES AND WASTEWATER DISPOSAL SYSTEM LOCATED ON THE PROPERTIES TO THE SOUTH AND ON THE PROPERTY OF SUGAR & SPICE HAVE BEEN LOCATED BY TM WOSAN.
 4. VERTICAL DATUM IS ASS.NED. THE SURVEY IS NOT TIED TO VERMONT STATE PLANE COORDINATES.
 5. THE WASTEWATER SYSTEM SERVING THE EXISTING HOUSE IS REPORTED TO HAVE BEEN ABANDON FOR OVER TWO YEARS BY TM WOSAN.
 6. EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED IN THIS PERMIT APPLICATION ARE FOR THE USE OF LOCAL, STATE, AND FEDERAL PERMIT PROGRAMS ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 25 V.S.A. SUBSECTION 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.



- REFERENCES**
1. TOPOGRAPHIC SURVEY CONDUCTED ON OCTOBER 6TH, 2014 BY ENMAN KESSELING CONSULTING ENGINEERS P.C. USING A NIKON MODEL DTM-420 ELECTRONIC TOTAL STATION.
 2. THE PROPERTY LINES ARE BASED UPON A BOUNDARY SURVEY PREPARED BY RAYMOND PAGE, VERMONT SURVEY CONSULTANTS, LLC, TITLED "BOUNDARY SURVEY-PARCEL A, A PORTION OF THE CHIMAYO, LLC PROPERTY" DATED OCTOBER 27TH, 2014.
 3. THE LOCATIONS OF THE WATER SUPPLIES AND WASTEWATER DISPOSAL SYSTEM LOCATED ON THE PROPERTIES TO THE SOUTH AND ON THE PROPERTY OF SUGAR & SPICE HAVE BEEN LOCATED BY TIM WOBAN.
 4. VERTICAL DATUM IS ASSUMED. THE SURVEY IS NOT TIED TO VERMONT STATE PLANE COORDINATES.
 5. THE WASTEWATER SYSTEM SERVING THE EXISTING HOUSE IS REPORTED TO HAVE BEEN ABANDONED FOR OVER TWO YEARS BY TIM WOBAN.
 6. EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED IN THIS PERMIT APPLICATION ARE FOR THE USE OF LOCAL, STATE, AND FEDERAL PERMIT PROGRAMS ONLY. THEY DO NOT REPRESENT LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 25 V.S.A. SUBSECTION 2502(1), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

LEGEND

---	APPROX. LOCATION OF PROPERTY LINE
---	EXISTING CONTOUR
---	EXISTING 10' CONTOUR
---	EXISTING CULVERT
---	EXISTING WATERLINE
---	EXISTING SEWER LINE
---	EXISTING FORCE MAIN
---	EXISTING OVERHEAD UTILITY LINES
---	EXISTING BURIED UTILITY LINES
---	EXISTING TREE LINE
---	STONE WALL
---	EXISTING UTILITY POLE
---	EXISTING OUT POLE
---	TEST PIT
---	PERC TEST
---	PROPOSED CONTOUR
---	PROPOSED 10' CONTOUR
---	PROPOSED SEWER
---	PROPOSED FORCE MAIN
---	PROPOSED CULVERT
---	PROPOSED TREE LINE
---	PROPOSED HANDICAP PARKING SPACE
---	PROPOSED CATCH BASIN
---	PROPOSED CLEANOUT
---	PROPOSED DRILLED BEDROCK WELL

- CONSTRUCTION NOTES**
1. PRIOR TO CONSTRUCTION START-UP, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PARTIES TO BE PRESENT INCLUDE PROJECT ENGINEER, PLUMBING CONTRACTOR, PROJECT OWNER, AND SITE OWNER.
 2. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL ON ROUTE 4 AS NECESSARY TO BRING CONSTRUCTION VEHICLES ON AND OFF THE SITE DURING CONSTRUCTION.
 3. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER SERVICES. IF THIS SEPARATION CANNOT BE ACHIEVED, CONTACT THE ENGINEER BEFORE PROCEEDING.
 4. CONTRACTOR SHALL INSTALL NEW WATER AND SEWER SERVICES TO THE BUILDING AS SHOWN ON THE PLANS.
 5. THE AREA DESIGNATED FOR THE WASTEWATER AND WASTEWATER REPLACEMENT SYSTEM SHALL BE MARKED OFF WITH FLAGGING OR CONSTRUCTION TAPE AND SHALL NOT BE TRAVELLED BY EQUIPMENT OR USED FOR STORAGE OF MATERIALS DURING CONSTRUCTION.
 6. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER TWO WATER QUALITY SAMPLES TAKEN A MINIMUM OF 24 HOURS APART.
 7. THE CONTRACTOR SHALL PROVIDE PRESSURE AND LEAKAGE TESTING FOR WATER AND SEWER COMPONENTS AS OUTLINED IN THE CONSTRUCTION OBSERVATION REQUIREMENTS ON SHEET CS.
 8. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A RECORD DRAWING OF SEWER, WATER, AND STORMWATER INFRASTRUCTURE, NOTING ANY CHANGES THAT TOOK PLACE DURING CONSTRUCTION.
 9. SEE SITE AND FOUNDATION PLAN FOR FOUNDATION PENETRATION DETAILS. COORDINATE ALL PENETRATIONS WITH ARCHITECTURAL PLANS.
 10. ELECTRICAL DESIGN BY OTHERS.

- WASTEWATER NOTES**
1. THE CONTRACTOR SHALL CONTACT DGS-SAFE PRIOR TO CONSTRUCTION.
 2. CONSTRUCTION OBSERVATION IS REQUIRED. SEE SCHEDULE. CONTRACTOR SHALL CONTACT ENGINEER 72 HOURS PRIOR TO ANY CONSTRUCTION.
 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN COPIES OF STATE & LOCAL PERMITS AND COMPLY WITH CONDITIONS THEREIN.
 4. WHERE CONFLICTS EXIST, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO IMPLEMENTATION.
 5. THE CONTRACTOR SHALL REVIEW CONSTRUCTION OBSERVATION SCHEDULE AND DETAILS WITH THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
 6. LOCATIONS AND ELEVATIONS ARE EXTREMELY CRITICAL AND MUST BE ADHERED TO. THERE SHALL BE NO DEVIATION WITHOUT WRITTEN AUTHORIZATION.
 7. ALL TREES WITHIN 10' OF THE DISPOSAL AREA AND RELATED PIPING SHALL BE REMOVED.
 8. THE DISPOSAL TRENCH SHALL BE EXCAVATED LEVEL AND SHALL HAVE VERTICAL SIDES. DO NOT OPERATE EQUIPMENT WITHIN EXCAVATED DISPOSAL FIELD.
 9. FAYE THE TRENCH BOTTOM AND SIDES TO LOOSEN THE SOIL. STONE IN DISPOSAL FIELD SHALL BE WASHED AND 3/4" TO 1 1/2".
 10. THE PIPES WITHIN THE FIELD SHALL BE LAD LEVEL. THE ENDS OF THE PERFORATED PIPES SHALL HAVE CLEANOUTS.
 11. GEOTEXTILE FABRIC SHALL BE LAD IN AN OVERLAPPING PATTERN. COVER WITH NATIVE MATERIAL. FINISH WITH TOPSOIL.
 12. GRADE ENTIRE AREA TO GRAD, THEN SEED AND MULCH.

DESIGNER'S CERTIFICATION LANGUAGE

THIS RECORD DRAWING IS NOT INTENDED TO BE CONSIDERED AS A GUARANTEE AS TO THE WORK PERFORMED BY THE CONTRACTOR(S). WE DO NOT MAKE EXHAUSTIVE STUDIES OF THE WORK PERFORMED, NOR WERE WE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, OR TECHNIQUES, NOR WERE WE AVAILABLE FOR CONTINUOUS ON-SITE INSPECTIONS TO CHECK QUALITY OR QUANTITY OF WORK.

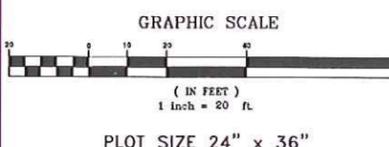
THIS DESIGNER'S CERTIFICATION AND RECORD DRAWING ARE PROVIDED IN CONFORMANCE WITH THE STATE OF VERMONT PERMITS WATER SUPPLY & WASTEWATER SYSTEM PERMIT (AW-1-1955-1, DATED JANUARY 25TH, 2013).

I HEREBY CERTIFY THAT IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGMENT, THAT THE INSTALLATION-RELATED INFORMATION SUBMITTED IS TRUE AND CORRECT, AND THAT THE WASTEWATER SYSTEM AND POTABLE WATER SUPPLY WAS INSTALLED IN ACCORDANCE WITH RECORD DRAWINGS AND SUCH RECORD DRAWINGS ARE IN COMPLIANCE WITH THE APPLICABLE RULES, WORK FIELD WITH THE SECTORS, AND ARE IN ACCORDANCE WITH ALL OTHER PERMIT CONDITIONS, WERE INSPECTED, WERE PROPERLY TESTED, AND HAVE SUCCESSFULLY MET THOSE PERFORMANCE TESTS EXCEPT AS NOTED.

THESE PLANS ARE IN CONFORMANCE EXCEPT FOR THESE DEVIATIONS FROM THE APPROVED DESIGN AND ARE REFLECTED ON THE RECORD DRAWING NOTED AS FOLLOWS:

SIGNATURE _____ PRINTED NAME _____ DATE _____

PERMIT # **39498**
RECEIVED
APR 30 2015
PERMITTING SERVICES



CREATION DATE: 2/2/15
 RELEASE DATE: 2/2/15
 PERMIT REVIEW

REVISIONS:



THE CERTIFICATION ON THIS DRAWING ONLY INDICATES THIS REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR PREPARATION AND IS NOT ISSUED FOR CONSTRUCTION UNLESS NOTED IN THIS REVISION BOX.

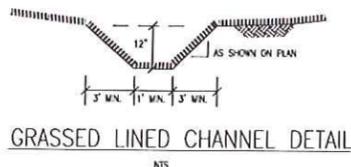
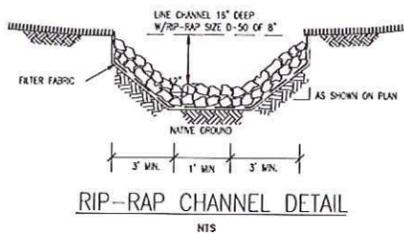
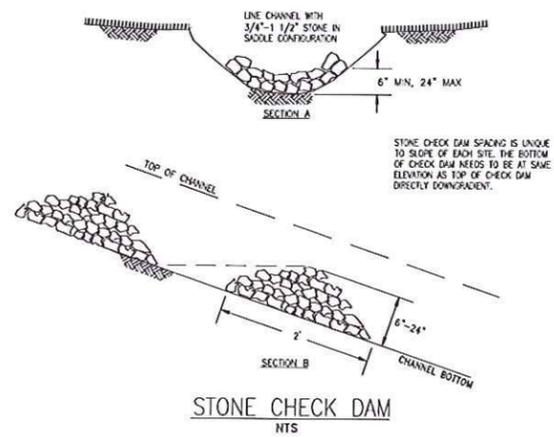
REGULATORY APPROVAL STAMP

ENMAN • KESSELING
 CONSULTING ENGINEERS
 Environmental + Civil
 61 Prospect Street
 Rutland, Vermont 05701
 www.EnmanEngineering.com
 (802)775-3437
 Copyright © 2015
 All Rights Reserved.

MENDON MINI GOLF
 ROUTE 4
 MENDON, VERMONT
 THESE PLANS ARE FOR THIS PROJECT ONLY AND ARE NOT FOR REUSE ON THIS PROJECT OR ANY OTHER PROJECT WITHOUT WRITTEN CONSENT OF ENMAN KESSELING CONSULTING ENGINEERS P.C.

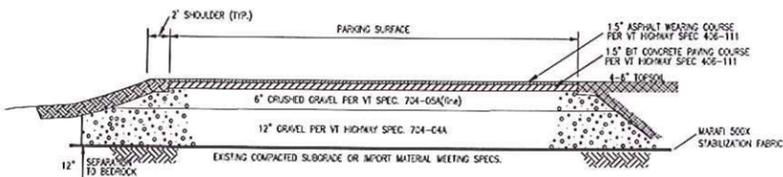
PROPOSED GRADING & DRAINAGE PLAN

SCALE: AS NOTED
 DESIGN BY: NSK/AFL
 DRAWN BY: AFL
 SHEET NO: C3
 PROJECT NO: 1421

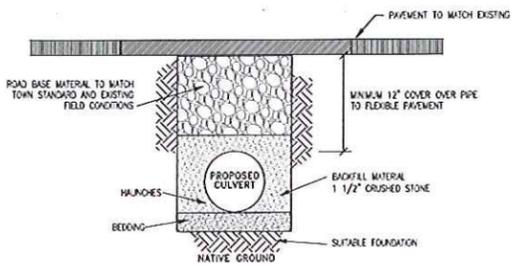


- NOTES
- GRASS CHANNEL MAY BE INSTALLED WHERE CHANNEL SLOPES ARE BETWEEN 0 AND 4%. FOR CHANNEL SLOPES GREATER THAN 5% RIP-RAP CHANNEL SHALL BE INSTALLED.
 - GRASS CHANNELS SHALL BE STABILIZED USING NORTH AMERICAN GREEN DS150 EROSION MATTING OR EQUIVALENT.
 - RIP-RAP LAYER SHALL BE ANGULAR BLAST ROCK OR CRUSHED STONE.
 - THE RIP-RAP LAYER SHALL BE INSTALLED AT 1.5X THE THICKNESS OF THE LARGEST STONE.
 - THE CONTRACTOR SHALL USE CARE SO THAT THE FILTER FABRIC IS NOT DAMAGED DURING INSTALLATION.

PARKING AREA
12" GRAVEL SUBBASE / 18" GRAVEL SUBBASE
PER VT HIGHWAY SPEC 704-644 OR 704-654

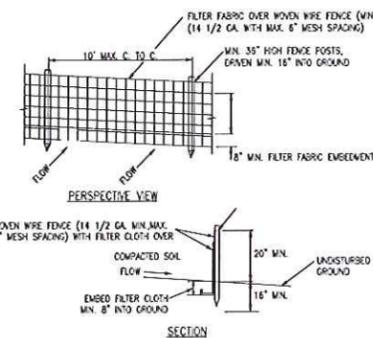


- NOTES
- ALL PAVEMENT WORK SHALL BE IN CONFORMANCE WITH VTTRANS STANDARDS INCLUDING SAW CUTTING OF PAVEMENT.
 - IN LOCATIONS WHERE THE PLAN CALLS FOR HEAVY DUTY PAVEMENT THE BASE COURSE SHALL BE 7.5\"
 - CONTRACTOR SHALL SUBMIT ONE SEVE ANALYSIS FOR EVERY 10 TRUCK LOADS OF GRAVEL IMPORTED TO THE SITE.
 - SLATE OR OTHER MATERIALS NOT APPROVED BY VTTRANS MAY NOT BE SUBSTITUTED FOR BASE AND SUBBASE MATERIAL.



- THE CONTRACTOR SHALL FOLLOW MANUFACTURERS GUIDELINES FOR INSTALLATION OF THE CULVERT.
- THE TRENCH SHALL BE PREPARED SO THAT THE CULVERT MAY BE INSTALLED ON A FIRM, UNIFORM BASE, WITH STABLE EARTH OR FINE GRANULAR FOUNDATION. IF UNSTABLE TRENCH CONDITIONS ARE FOUND TO EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- BEDDING SHALL BE 6\"
- BACKFILL AROUND STRUCTURE SHALL BE INSTALLED IN LIFTS 6-8\"
- PAVEMENT REPAIR AND BACKFILL MATERIALS SHALL MEET TOWN STANDARDS.

TRENCH DETAIL FOR CULVERT REPLACEMENT NTS

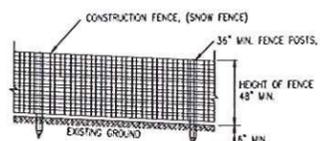


- NOTES
- SILT FENCE SHALL BE INSTALLED RUNNING PARALLEL TO THE CONTOUR, WITH J HOOKS TO TRAP SEDIMENT IN WATER. SILT FENCE SHALL BE INSTALLED AROUND THE DOWNGRADIENT PERIMETER OF EARTH DISTURBANCE AND AROUND ANY SOIL PILES THAT WILL NOT IMMEDIATELY BE REMOVED FROM THE SITE.
 - EACH 100' SECTION OF SILT FENCE CAN INTERCEPT RUNOFF FROM 1/4 ACRE.
 - WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6\"
 - CONTRACTOR SHALL REMOVE SEDIMENT BEFORE IT REACHES HALFWAY TO THE TOP OF THE FENCE.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN RIDGES DEVELOP IN THE SILT FENCE.

MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO SILT FENCE PLACED ON A SLOPE

SLOPE STEEPNESS	MAXIMUM LENGTH
2:1	25 FT
3:1	50 FT
4:1	75 FT
5:1 OR FLATTER	100 FT

SILT FENCE DETAIL NTS



- NOTES
- FENCING TO BE INSTALLED TO DELINEATE LIMIT OF CONSTRUCTION DISTURBANCE, AS SHOWN ON PLANS. NO DISTURBANCE SHALL OCCUR OUTSIDE OF THIS FENCE WITHOUT PRIOR APPROVAL FROM A/E.
 - LIMITS OF DISTURBANCE ALONG WETLAND BOUNDARY SHALL BE MARKED USING CHANGING SNOW FENCE, OTHER AREAS MAY USE 3\"

LIMIT OF DISTURBANCE FENCE NTS

GENERAL GRADING NOTES

- GRADING IS SCHEMATIC IN NATURE AND SUBJECT TO FIELD MODIFICATION TO SUIT SPECIFIC ISOLATED SITE CONDITIONS. THE CONTRACTOR MAY MODIFY THE GRADING TO ACCOMMODATE SPECIFIC ISOLATED SITE CONDITIONS. HOWEVER, ALL AREAS SHALL BE GRADED TO DRAIN AND GENERAL DRAINAGE PATTERNS SHALL NOT BE SIGNIFICANTLY ALTERED.
- THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY GRADING CHANGES PRIOR TO EXCAVATION IN THE AREA IN QUESTION. EROSION CONTROLS ARE CONCEPTUAL.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE VERMONT HANDBOOK FOR SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES AND BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENT AND PROCEDURES CONTAINED THEREIN.
- THE CONTRACTOR SHALL IMPLEMENT ANY AND ALL PROCEDURES NECESSARY TO CONTROL EROSION AND SEDIMENTATION ON AND OFF THE SITE.
- THE CONTRACTOR SHALL NOT BE LIMITED TO THE METHODS AND PROCEDURES WITHIN THE "HANDBOOK" AND SHOWN ON THESE PLANS AND MAY USE ADDITIONAL MEASURES AS REQUIRED.

EROSION CONTROL NOTES

- THE PROJECT IS PERMITTED BY A STATE OF VERMONT LOW RISK CONSTRUCTION GENERAL PERMIT 3-9020. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH REQUIREMENTS OF CP-3-9020 PRIOR TO COMMENCING WITH ANY EARTH DISTURBING ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH PERMIT CONDITIONS AND SHALL FILE OUT AND FILE FURTHERWORK TO BECOME A CO-PERMITTEE OF THE PERMIT. IF THE PERMIT CONDITIONS CANNOT BE IMPLEMENTED, THE CONTRACTOR SHALL CONTACT THE OWNER AND THE ENGINEER TO ASSES IF A PERMIT AMENDMENT IS NEEDED.
 - THIS PROJECT HAS BEEN DESIGNED TO BE A "LOW RISK" PROJECT BASED ON THE RISK EVALUATION FROM APPENDIX A OF THE VERMONT GENERAL PERMIT 3-9020 (2005) FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. IN ORDER TO MAINTAIN THAT STATUS THE CONTRACTOR(S) MUST FOLLOW THE CRITERIA OUTLINED BY ALL PARTS OF THE RISK EVALUATION. IF THESE CRITERIA CANNOT BE IMPLEMENTED THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION TO ASSESS IF A MODERATE RISK PERMIT WILL NEED TO BE OBTAINED BEFORE CONSTRUCTION MAY COMMENCE.
 - THE PLANS CREATED BY ENMAN KESSELING CONSULTING ENGINEERS, P.C. ARE TO PROVIDE A GUIDELINE FOR THE CONTRACTOR IN IMPLEMENTATION OF EROSION CONTROL MEASURES. THE CONTRACTOR SHALL OBTAIN A COPY OF AND FOLLOW THE LOW RISK SITE HANDBOOK FOR EROSION CONTROL PREVENTION AND SEDIMENT CONTROL. THIS DOCUMENT IS AVAILABLE ON THE AGENCY OF NATURAL RESOURCES WEB SITE. THE CONTRACTOR SHALL NOT BE LIMITED TO THE METHODS AND PROCEDURES OUTLINED ON THESE PLANS OR THE HANDBOOK. THE CONTRACTOR SHALL EMPLOY ADDITIONAL MEASURES AS SITE CONDITIONS REQUIRE TO PREVENT EROSION AND OFFSITE SEDIMENTATION.
- WINTER CONSTRUCTION REQUIREMENTS: IF CONSTRUCTION ACTIVITIES WILL BE CONDUCTED BETWEEN OCTOBER 15TH AND APRIL 15TH, SPECIAL WINTER EROSION CONTROL MEASURES NEED TO BE IMPLEMENTED. REFER TO LOW RISK HANDBOOK FOR DETAILS. THE STORAGE OF CLEARED SNOW UPON DISTURBED SOILS AND IN STORMWATER TREATMENT STRUCTURES IS PROHIBITED.

PERMIT REQUIREMENTS

- MAXIMUM DISTURBED AREA: 2 AC.
- MAXIMUM EXPOSED DURATION: 14 DAYS.
ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORKDAY. THE FOLLOWING EXCEPTIONS APPLY:
- STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
 - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF TWO FEET OR GREATER.

- MAXIMUM EXPOSURE FOLLOWING FINAL GRADING: 48 HOURS.
ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED (STABILIZED) WITHIN 48 HOURS OF FINAL GRADING. MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB / 1000 SF). SEE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR ADDITIONAL INFORMATION ON MULCH APPLICATION. THE CONTRACTOR SHALL MAKE AN EFFORT TO SEED AND MULCH DISTURBED AREAS BY SEPTEMBER 15TH TO ALLOW FOR A VIGOROUS GROWTH OF VEGETATION. NON VEGETATIVE PROTECTION MEASURES SHALL BE INSTALLED BY OCTOBER 15TH.
- MAXIMUM EXPOSED SLOPE: 3:1 OR GREATER REQUIRES MATTING OR OTHER SOIL STABILIZATION MEASURES.
EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL FINISHED GRADES WITH SLOPES OF 3:1 OR GREATER. SEE EROSION CONTROL LEGEND FOR SPECIFIC MATTING REQUIREMENTS. THIS REQUIREMENT APPLIES TO ALL OPENWAY GRADING.

- MAXIMUM EXPOSED INACTIVE SOIL STOCKPILES: 14 DAYS.
SOIL STOCKPILES SHALL BE SEEDED AND MULCHED IF THEY ARE TO REMAIN OASTE IN EXCESS OF 14 DAYS. SILT FENCING SHALL BE INSTALLED AROUND THE DOWNGRADIENT PERIMETER OF SOIL STOCKPILES.
- REMOVAL OF OASTE MATERIALS (SOIL)
THE REMOVAL OF OASTE MATERIAL (SOIL) TO AN OFFSITE LOCATION REQUIRES PRIOR APPROVAL BY THE WATER QUALITY DIVISION OF THE OFFSITE LOCATION.
- EROSION CONTROL MEASURES INCLUDING SILT FENCE, STONE CHECK DAMS, ETC. SHALL REMAIN IN PLACE UNTIL THE SITE HAS ACHIEVED VIGOROUS GROWTH OVER 70% OF THE SITE.

ADDITIONAL EROSION CONTROL MEASURES FOR WORK BETWEEN OCTOBER 15 - APRIL 15

- GRASS SEEDS SHALL BE SUBSTITUTED FOR ANY OTHER ANNUAL GRASS SEEDS.
- ALL EXPOSED EARTH SHALL BE MULCHED WITH 6 INCHES OF HAY OR STRAW. SLOPES OVER 5% SHALL HAVE AN ADDITIONAL COVERING OF STAVED LIME WAT OR ITS EQUIVALENT.
- SNOW SHALL BE REMOVED FROM EXPOSED EARTH BEFORE SEEDING AND MULCHING.

SEEDING SCHEDULE

MATURE	LB/AC	LB/1000 SF
BERBERIS	2	0.1
FALL FESCUE	23	0.9
BROODFOOT TREFOIL	8	0.2
TOTAL	33	0.8

TEMPORARY SEEDING FERTILIZER RECOMMENDATIONS

FERTILIZER	GRASS MIX (LB)	GRASS/ALFALFA MIX (LB)
NITROGEN (N)	60	30
PHOSPHOROUS	30	60
POTASSIUM	30	60

TEMPORARY VEGETATIVE COVER SEASONAL AND/OR FOR STOCKPILES

MATURE	LB/AC	LB/1000 SF
ANNUAL RYEGRASS	10	0.23
SPRING OATS	64	1.50

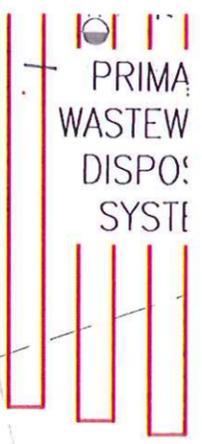
MULCHING SPECIFICATIONS:

- STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE (90 LB/1000 SF) FOR TEMPORARY AND PERMANENT APPLICATIONS.
- IF SITE WORK IS UNDERWAY BETWEEN OCTOBER 15TH AND APRIL 15TH MULCH SHALL BE APPLIED AT A RATE OF DOUBLE THE ABOVE RECOMMENDED RATE (4 TONS/ACRE) AND EITHER TRACKED INTO THE GROUND USING MACHINERY OR ANCHORED USING MATTING TO PREVENT REMOVAL BY WIND.
- SEEDING SPECIFICATIONS FOR TEMPORARY VEGETATION COVER SHALL BE FOLLOWED FOR PLANTING AFTER SEPTEMBER 15TH.

CREATION DATE: 2/2/15
RELEASE DATE: 2/2/15
PERMIT REVIEW
REVISIONS:
THE CERTIFICATION ON THIS DRAWING ONLY INDICATES THE VT REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR PREPARATION AND IS NOT ISSUED FOR CONSTRUCTION UNLESS NOTED IN THE REVISION BOX.
REGULATORY APPROVAL STAMP
ENMAN KESSELING CONSULTING ENGINEERS
Environmental +Civil
61 Prospect Street
Rutland, Vermont 05701
www.EnmanEngineering.com
(802)775-3437
Copyright © 2015
All rights reserved.
MENDON MINI GOLF
ROUTE 4
MENDON, VERMONT
THESE PLANS ARE FOR THIS PROJECT ONLY AND ARE NOT FOR REUSE ON THIS PROJECT OR ANY OTHER PROJECT WITHOUT WRITTEN CONSENT OF ENMAN KESSELING CONSULTING ENGINEERS P.C.
SITE & EROSION CONTROL DETAILS
SCALE: AS NOTED
DESIGN BY: NSK
DRAWN BY: KSM
SHEET NO: C6
PROJECT NO: 1421

PERMIT # 39490
RECEIVED
APR 30 2015
PERMITTING SERVICES

SUGAR AND SPICE ACCESS DRIVE

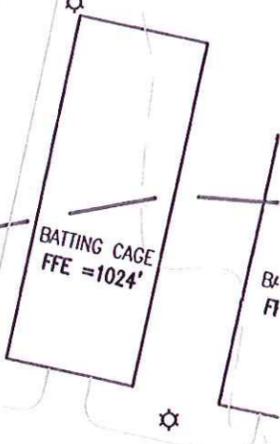


"REPLACEMENT AREA" DO NOT DISTURB OR ALTER LAND

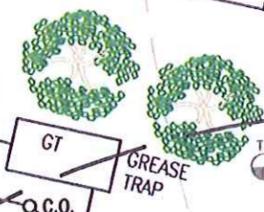
PICNIC AREA (MULCH GROUND COVER)

MINI GOLF AREA

200 FT UPHILL WWS ISOLATION



EXISTING WELL (TO BE ABANDONED)



100 FT UPHILL WWS ISOLATION

PAVEMENT FROM ROUTE 4 TO PROPERTY LINE

CL OF EXISTING DRIVE TO RUTLAND
CL NEW DRIVE

18 IN/RCP CULVERT

INV: 1016.8

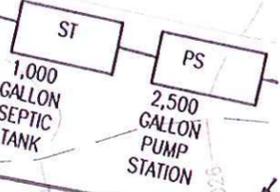
GRAVEL DRIVE

PAVEMENT FROM ROUTE 4 TO PROPERTY LINE

PROPOSED BUILDING FFE = 1023'

BATTING CAGE FFE = 1024'

27 PARKING SPACES



PROPOSED SEPTIC SHIELD

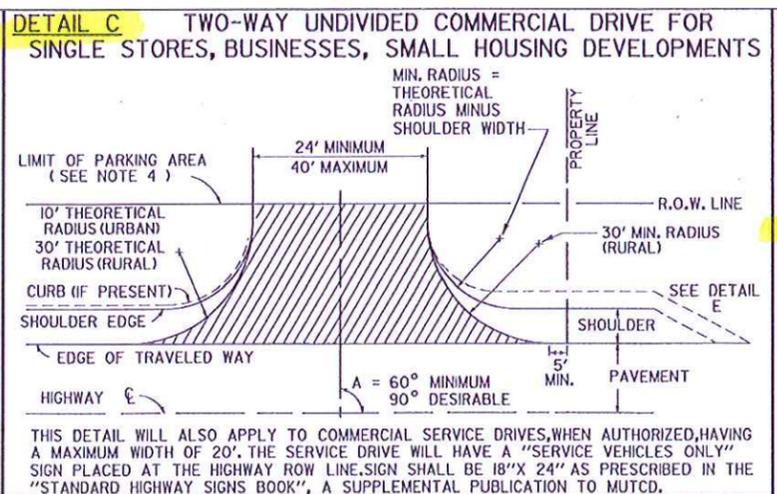
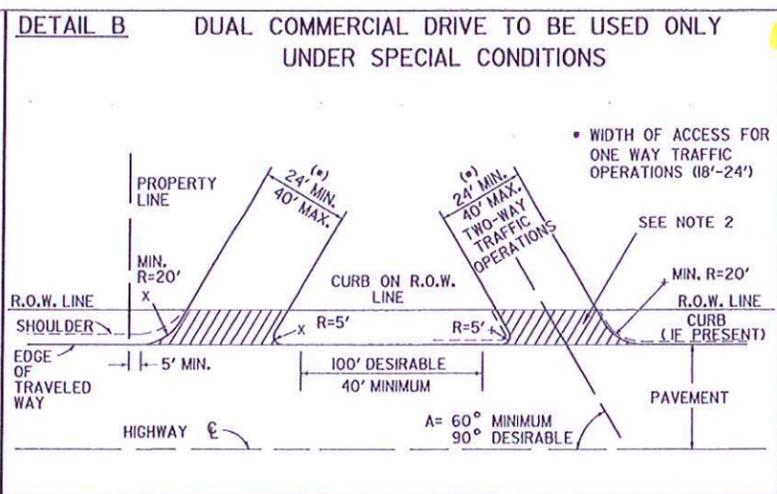
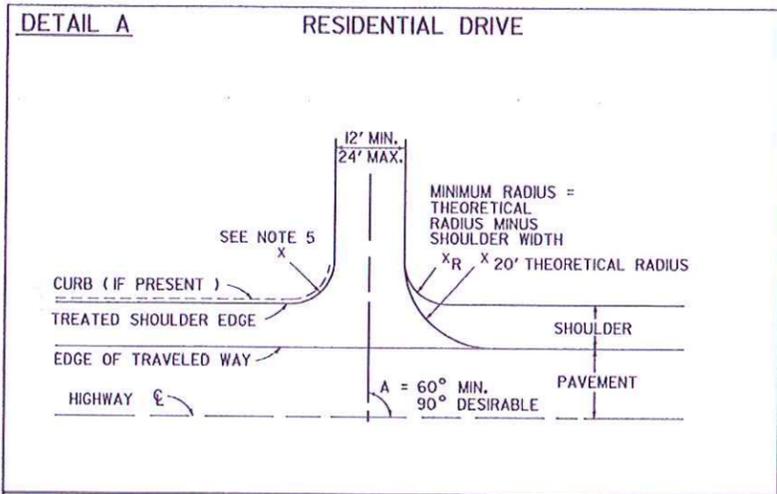
100 FT WELL ISOLATION SHIELD

EXISTING WELL SHIELD

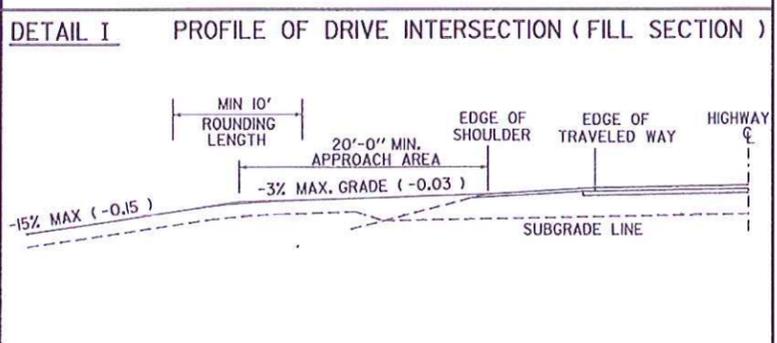
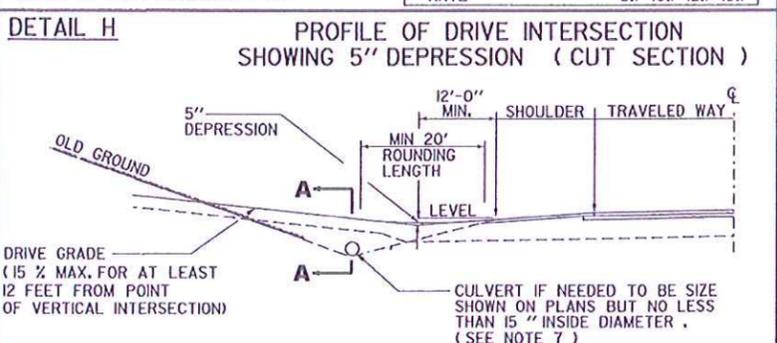
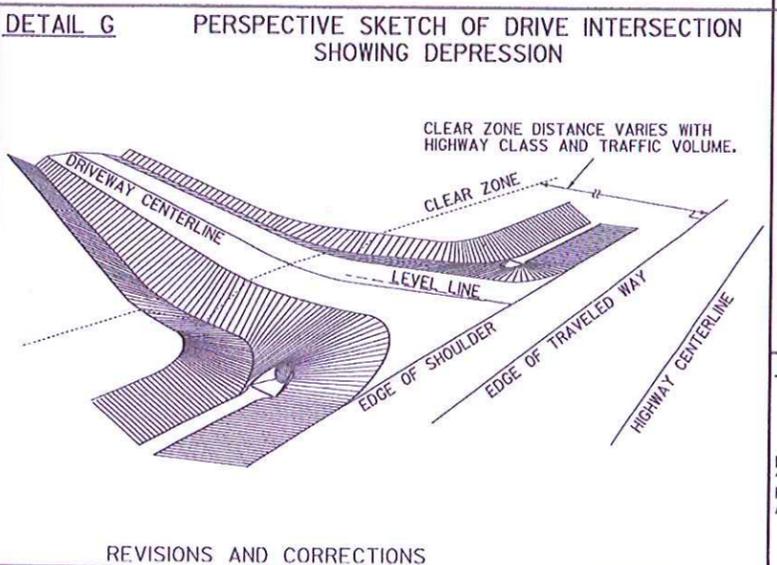
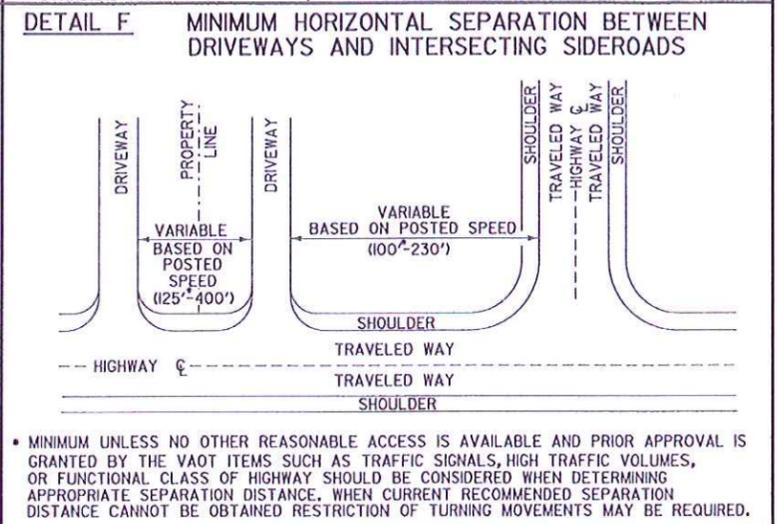
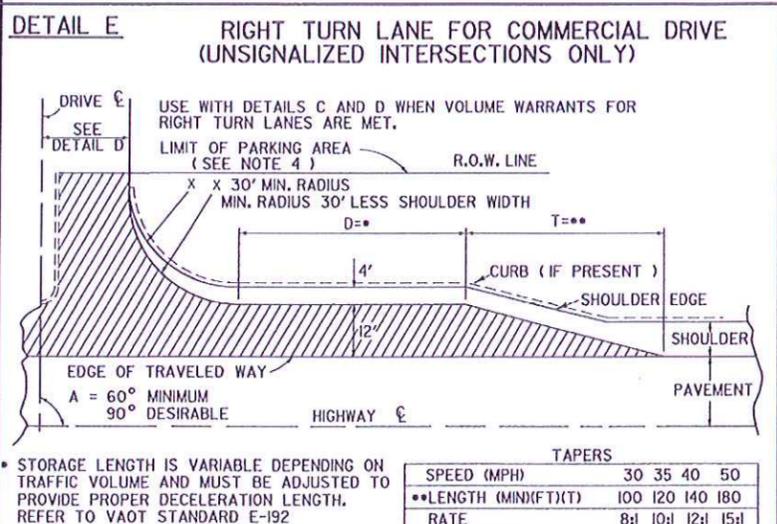
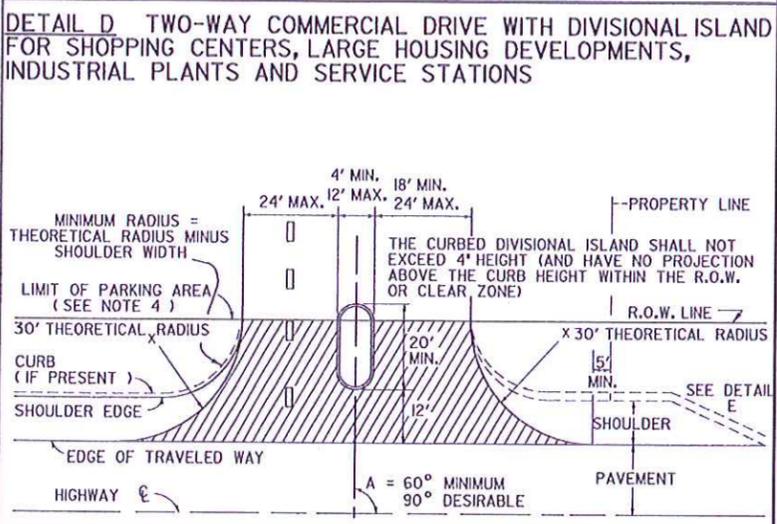
Mendon Mini Golf
SCALE 1"=20'
2-6-15

PROPOSED DRILLED BEDROCK WELL SOURCE ID: INC 1





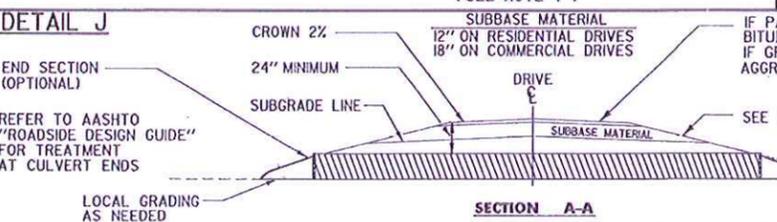
- NOTES:
- THIS SHEET IS INTENDED FOR USE BY DESIGNERS ON HIGHWAY PROJECTS AND IN CONJUNCTION WITH A PERMIT FOR WORK WITHIN HIGHWAY RIGHTS OF WAY (FORM TA 210). ALL CONSTRUCTION REQUIRED BY THE PERMIT AND INDICATED ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND IS SUBJECT TO THE APPROVAL OF THE VT. AGENCY OF TRANSPORTATION. WHEN USED WITH THE PLANS FOR A HIGHWAY CONSTRUCTION PROJECT, THIS SHEET IS INTENDED TO BE A GUIDE FOR THE DESIGNER CONCERNING DRIVE WIDTHS, HORIZONTAL, VERTICAL AND GEOMETRIC CHARACTERISTICS.
 - ALL COMMERCIAL DRIVES SHALL BE PAVED FROM THE EDGE OF THE TRAVELED WAY TO THE HIGHWAY RIGHT-OF-WAY, TO THE FARTHEST POINT OF CURVATURE ON THE DRIVEWAY EDGE OR AS DIRECTED BY THE DISTRICT TRANSPORTATION ADMINISTRATOR. THIS PAVING IS INDICATED IN DETAILS (B THRU E) BY HATCHING.
 - DEPTH OF SUBBASE AND PAVEMENT TO BE THE SAME AS HIGHWAY OR AS SHOWN IN DETAIL J WITHIN THE LIMITS OF THE HIGHWAY RIGHT-OF-WAY.
 - VEHICULAR ACCESS FROM PARKING AREAS TO THE RIGHT-OF-WAY AT OTHER THAN APPROVED ACCESS POINTS WILL BE PREVENTED BY THE CONSTRUCTION OF CURBING OR OTHER SUITABLE PHYSICAL BARRIER.
 - IF CURB IS PRESENT, SEE APPROPRIATE CURB DETAIL STANDARD OR MATCH TOWN/CITY STANDARD CURB TREATMENT.
 - WHERE TRAFFIC VOLUME FOR A PROJECT IS SUBSTANTIAL THE AGENCY MAY REQUIRE SPECIAL LANES FOR TURNING, SIGNALS OR OTHER MODIFICATIONS. BASED ON TRAFFIC STUDIES THE AGENCY WILL DETERMINE SPECIFIC TREATMENT TO BE USED. ON DEVELOPER PROJECTS THE AGENCY WILL WORK WITH THE APPLICANT TO IMPLEMENT CHANGES TO THE STATE HIGHWAY.
 - CIRCULAR DRAINAGE CULVERTS UNDER DRIVES SHALL HAVE A MINIMUM INSIDE DIAMETER (I.D.) OF 15". PIPE ARCHES USED UNDER DRIVES SHALL HAVE A MINIMUM INSIDE CROSS-SECTIONAL AREA EQUIVALENT TO THAT PROVIDED BY A 15" CIRCULAR PIPE.
 - THE OFFSET BETWEEN THE PROPERTY LINE AND THE EDGE OF THE DRIVEWAY MAY BE GOVERNED BY LOCAL ZONING LAWS. DRIVEWAY WIDTH RESTRICTIONS SHOWN PERTAIN ONLY TO THE AREA WITHIN THE HIGHWAY R.O.W. OR THE END OF THE TURNING RADIUS WHICHEVER IS GREATEST.
 - DRIVEWAY GRADES STEEPER THAN THOSE SHOWN MAY BE ALLOWED AS LONG AS A 20' APPROACH AREA IS ACHIEVED FOR THE VEHICLE TO PAUSE BEFORE ENTERING THE HIGHWAY. (WHERE CURB & SIDEWALKS EXIST, SEE STANDARDS C-2A & C-2B)
 - INTERSECTION SIGHT DISTANCES, EQUAL TO OR GREATER THAN THOSE SHOWN BELOW, SHOULD BE PROVIDED IN BOTH DIRECTIONS FOR ALL DRIVES ENTERING ON PUBLIC HIGHWAYS, UNLESS OTHERWISE APPROVED BY THE AGENCY OF TRANSPORTATION. INTERSECTION SIGHT DISTANCE IS MEASURED FROM A POINT ON THE DRIVE AT LEAST 15 FEET FROM THE EDGE OF TRAVELED WAY OF THE ADJACENT ROADWAY AND MEASURED FROM A HEIGHT OF EYE OF 3.5 FEET ON THE DRIVE TO A HEIGHT OF 3.50 FEET ON THE ROADWAY.



SIGHT DISTANCE CHART

POSTED SPEED OR DESIGN SPEED (M.P.H.)	MINIMUM STOPPING SIGHT DISTANCE (FT)	MINIMUM INTERSECTION SIGHT DISTANCE * (FT)
25	155	280
30	200	335
35	250	390
40	305	445
45	360	500
50	425	555
55	495	610
60	570	665
65	645	720

THE ABOVE VALUES ARE TAKEN FROM THE 2004 AASHTO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS & STREETS."



DRIVE SIDE SLOPES

LOCATION OF SLOPE	SLOPE RATE
V > 40 MPH	1:6 OR FLATTER
URBAN AREAS, OR V < 40 MPH	1:4 DESIRABLE 1:2 ALLOWABLE
OUTSIDE CLEAR ZONE	1:2 OR FLATTER

REVISIONS AND CORRECTIONS

DEC. 11, 1992 - THIS STANDARD SUPERCEDES B-71(7/23/80R), B-71A (3/12/90), AND B-13 (12/14/71).

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

MAR. 10, 1995 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

NOV. 16, 2000 - CHANGES MADE TO CONFORM WITH LANGUAGE AND DIMENSIONS IN ACCESS MANAGEMENT PROGRAM GUIDELINES.

FEB 1, 2004 - CHANGES MADE TO SIGHT DISTANCE CHART TO CONFORM WITH NEWEST AASHTO CRITERIA.

JULY 8, 2005 - CHANGE MADE TO OBJECT HEIGHT TO CONFORM WITH NEWEST AASHTO CRITERIA

APPROVED

Richard F. Farnsworth
DIRECTOR OF PROGRAM DEVELOPMENT

Gary S. Keller
CHIEF OF UTILITIES AND PERMITS

Michael Conner
FEDERAL HIGHWAY ADMINISTRATION

STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES

