VERMONT

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

! LETTER OF INTENT !
THIS IS NOT A PERMIT

November 30, 2015

Cumberland Farms
Paul M. Wilson
100 Crossing Boulevard
Framingham, MA 01702

Subject: Hartford, US5, L.S. 265+05 ~ 268+22 RT

Dear Mr. Wilson,

Your highway permit application to construct accesses, sidewalk, and utility connections, at the above-referenced location, has been reviewed and found to meet the requirements for work within the highway right-of-way.

Title 19 VSA & 1111 requires that we ensure compliance with all local ordinances and regulations relating to highways. **Your highway permit application will be processed after you provide us with copies of your ACT 250 and/or local approvals, including all conditions.** In cases where local zoning does not exist, a letter from the legislative body of the municipality will be acceptable.

When issued, the permit will contain, but will not be limited to, the attached Special Conditions.

This commitment is valid for two years from the date of this letter. Should your other permits require a longer time period, please contact us relative to an extension of time.

This Letter of Intent addresses only access to, work within, and drainage affecting the State highway. It does not address other possible transportation issues, such as access to town highways, use of private roads, and use of railroad crossings. If relevant to the proposed development, such issues must be addressed separately.

If you have any further questions about this matter, please call me at (802) 828-2655.

Sincerely,

Brian R. McAvoy

Brian R. McAvoy
Permit Coordinator
Permitting Services

Attachment

Reviewed by: Theresa C. Gilman Date: 11-30-15
Theresa Gilman, Permitting Services Supervisor

cc: Town of Hartford
Two-Rivers Ottauquechee Regional Commission

VTrans Working to Get You There
Vermont Agency of Transportation

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 plans received November 30, 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 Vermont Agency of Transportation <u>is not</u> a member of Dig Safe. The Permit Holder shall contact Tim Sweeney at (802) 279-0585. They will need to locate and mark all existing buried utility facilities owned by the Agency 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.

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.

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

These accesses will serve as the only accesses 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.

The Permit Holder must install curbing or other suitable physical barriers to restrict ingress and egress of vehicles to the approved accesses only.

The Town of Hartford will be responsible for all maintenance of the new sidewalk, including (but not limited to) winter snow and ice removal when deemed appropriate.

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 these accesses 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.

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 highways users is or may be affected.

The highway crossing shall be installed by jacking or boring in accordance with the attached standard D-20.

The Permit Holder shall promptly and unconditionally pay for full repair and restoration of any and all damages to existing underground utility facilities (meaning any underground pipe, conduit, wire or cable, including appurtenances) that have been brought about by the execution of the permitted work. The Permit Holder also is required to pay for any costs to repair the highway following and resulting from any repairs to existing utilities occurring as a result of the work covered by this permit. Except with the specific, written permission of the Engineer, the Permit Holder or his or her contractor shall expose all underground facilities to verify their location and depth, at each location where the authorized boring or drilling work crosses a facility; and at reasonable intervals when closely paralleling a facility. Whenever possible, existing facilities should be crossed at a perpendicular angle. The Permit Holder shall be responsible for obtaining the modification of this permit, if necessary, for any additional survey work before initiating boring or drilling operations under the permit. The Agency will treat the Permit Holder's failure to fully, promptly, and conscientiously comply with all of conditions of this paragraph, including but not limited to the obligation to pay for repairs, as grounds for the Agency to refuse to grant any further requests by the Permit Holder for any other permits for subsurface work unless the Permit Holder furnishes irrevocable financial security, in a type and an amount deemed sufficient by the Agency in its sole discretion, prior to such future subsurface work.

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.

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.

By acceptance of this permit, the Permit Holder agrees to defend, hold harmless and indemnify the Agency, the State of Vermont, and their officers and employees from and against all claims arising out of connections of the Permit Holder's stormwater management system to the Agency's State Highway stormwater management system.

This permit authorizes only the discharge of stormwater runoff to the Agency's stormwater management system with the following exemptions:

- water line flushing or other potable water sources,
- landscape irrigation or lawn watering,
- rising ground water,
- ground water infiltration to storm drains,
- air conditioning condensation,
- fire fighting activities.

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 Route 5 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.

As the utility operation moves, flagger signs shall be moved accordingly. At no time should the flagger symbol sign be more than 1,000 feet from the flagger station. Flagger signs shall be covered or turned away from traffic when flagging operations cease for longer than 15 minutes.

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

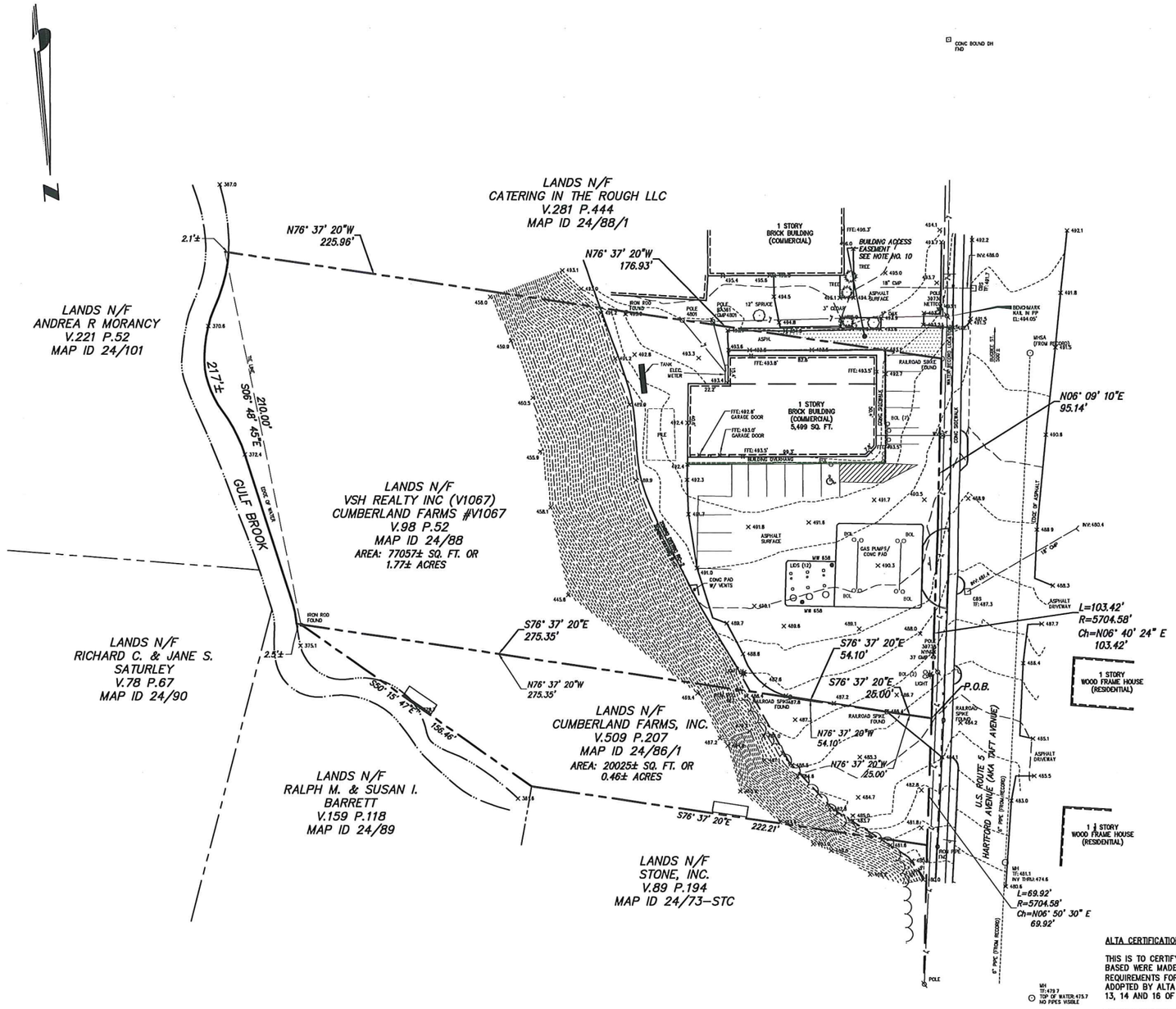
The policy shall be on an occurrence form and limits shall not be less than:

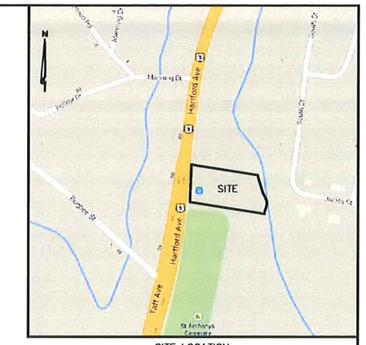
$2,000,000 Per Occurrence
$2,000,000 General Aggregate
$2,000,000 Products/Completed Operations Aggregate
$ 50,000 Fire/Legal Liability

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

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.





SITE LOCATION
(SCALE: NONE)

NOTES:

1. BASE MAPPING PREPARED BY CHA FROM A JANUARY 2014 FIELD SURVEY.

2. NORTH ORIENTATION IS TRUE NORTH BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY. MAPPING PREPARED ON NAD83- VERMONT STATE PLANE COORDINATE SYSTEM.

3. ELEVATION AND CONTOURS SHOWN ON NGVD88 VERTICAL DATUM BASED ON GPS OBSERVATIONS.

4. SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE MAY DISCLOSE.

5. SUBJECT TO ANY RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.

6. SUBJECT PARCEL LOCATED WITHIN ZONE X DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP, WINDSOR COUNTY, VERMONT, MAP NUMBER 50027C0391E, EFFECTIVE DATE SEPTEMBER 28, 2007.

7. SUBJECT PARCEL ZONING DESIGNATION, RESIDENTIAL – COMMERCIAL TWO (RC-2) (FRONT), & RESIDENTIAL TWO (R-2) (REAR).

8. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES, IF ANY, ARE SHOWN BASED ON THE FIELD SURVEYED LOCATION OF SURFACE FEATURES COMBINED WITH INFORMATION FROM AVAILABLE RECORD PLANS. THE ACTUAL LOCATION OF UNDERGROUND UTILITIES MAY DIFFER SOMEWHAT FROM WHAT IS SHOWN AND OTHERS MAY EXIST.

9. SUBJECT TO A RIGHT OF WAY FOR BUILDING ACCESS, PER DEED VOLUME 98 ON PAGE 52.

10. SUBJECT TO A SEPTIC RIGHTS, PER DEED VOLUME 98 ON PAGE 52.

11. SUBJECT PARCEL ADDRESS: 1167 HARTFORD AVENUE

12. AVAILABLE PARKING SPACES: 15 REGULAR AND 1 ACCESSIBLE.

MAP REFERENCES:

1. MAP ENTITLED "A SURVEY OF PROPERTY OF CONNA CORPORATION" AS PREPARED BY GEORGE B. ROCK AND DATED SEPTEMBER 1983.

PROPERTY DESCRIPTION:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN THE TOWN OF HARTFORD, COUNTY OF WINDSOR, STATE OF VERMONT AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AND FOLLOWS:

BEGINNING AT A POINT ON THE EASTERLY HIGHWAY BOUNDARY OF TAFT AVENUE (U.S. ROUTE 5) AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN LANDS NOW OR FORMERLY OF THE TOWN OF HARTFORD, AS DESCRIBED IN VOLUME 159 OF DEEDS AT PAGE 602, ON THE NORTH AND LANDS NOW OR FORMERLY OF VHS REALTY INC.(V1067) – CUMBERLAND FARMS #V1067, AS DESCRIBED IN VOLUME 98 OF DEEDS AT PAGE 52, ON THE SOUTH; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. SOUTH 76°-37'-20" EAST, A DISTANCE OF 25.00 FEET TO A FOUND RAILROAD SPIKE,
2. SOUTH 76°-37'-20" EAST, A DISTANCE OF 54.10 FEET TO A FOUND RAILROAD SPIKE, AND
3. SOUTH 76°-37'-20" EAST, A DISTANCE OF 275.35 FEET TO A FOUND IRON ROD, SAID IRON ROD BEING EASTERLY OF GULF BROOK 2.5'±, THENCE SOUTHERLY ALONG GULF BROOK 217'±, HAVING A TIE LINE OF SOUTH 06°-48'-45" EAST, A DISTANCE OF 210.00 FEET TO A POINT AT THE PROPERTY DIVISION LINE BETWEEN SAID LANDS OF VHS REALTY INC.(V1067) – CUMBERLAND FARMS #V1067, ON THE NORTH AND LANDS NOW OR FORMERLY OF CATERING IN THE ROUGH LLC, AS DESCRIBED IN VOLUME 281 OF DEEDS AT PAGE 444, ON THE SOUTH; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING TWO (2) COURSES AND DISTANCES:

1. NORTH 76°-37'-20" WEST, A DISTANCE OF 225.96 FEET TO A FOUND IRON ROD, AND
2. NORTH 76°-37'-20" WEST, A DISTANCE OF 176.93 FEET TO A POINT ON THE ABOVE SAID EASTERLY HIGHWAY BOUNDARY OF TAFT AVENUE; THENCE ALONG SAID HIGHWAY BOUNDARY THE FOLLOWING TWO (2) COURSES AND DISTANCES:

1. NORTH 06°-09'-10" EAST, A DISTANCE OF 95.14 FEET TO A POINT OF CURVATURE, AND
2. ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 5704.58 FEET, ARC LENGTH OF 103.42 FEET AND A CHORD OF NORTH 06°-40'-24" EAST, 103.42 FEET TO THE POINT OR PLACE OF BEGINNING AND BEING 1.77 ACRES OF LAND MORE OR LESS.

ALTA CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 7A, 8, 9, 11B, 13, 14 AND 16 OF TABLE A THEREOF.

SURVEY CERTIFIED TO:
1. CUMBERLAND FARMS, Inc.

DONALD A. JOHNSTON, LS
VERMONT LICENSE No. 686

DATE

LEGEND

LIGHT	LIGHT POLE
CB	CATCH BASIN
IRON PIPE	IRON PIN
POLE	UTILITY POLE
MH	MANHOLE
MHT	TELE. MANHOLE
GV	GAS VALVE
WV	WATER VALVE
BOL	BOLLARD
	DEED PARCEL BOUNDARIES
	TAX PARCEL BOUNDARIES
	PARCEL BOUNDARY
	ABUTTING BOUNDARY
	HIGHWAY BOUNDARY
	OVERHEAD UTILITIES
	STORM SEWER
	SANITARY SEWER
	UNDERGROUND TELEPHONE
	UNDERGROUND TELEPHONE
	WATER
	GUIDE RAIL

0 30 60
Scale in feet

Revisions:	Drawn By:	App'd. By:	Date:
OWNERSHIP OF MAP ID 24/86/1 UPDATED	MJB	DAJ	4/9/15
ADDED PORTION OF L/O TOWN OF HARTFORD VT	JEQ	DAJ	4/14/14
MAP ISSUED	DJD	DAJ	2/10/14
Dwg: VBASE_27865200	Dview:		

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE VALID COPIES. CERTIFICATES INDICATED OR IMPLIED HEREON SHALL RUN ONLY TO THE PARTY FOR WHOM THE SURVEY IS PREPARED, AND ON THEIR BEHALF TO THE ADDITIONAL PARTIES LISTED HEREON. CERTIFICATES ARE NOT TRANSFERABLE TO ADDITIONAL PARTIES, OR SUBSEQUENT OWNERS, NOT LISTED HEREON.

STATE OF VERMONT
DONALD A. JOHNSTON
No. 686
LICENSED LAND SURVEYOR
Donald A. Johnston, LS 686

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CHA
III Winners Circle, PO Box 5269 - Albany, NY 12205-0269
Main: (518) 453-4500 · www.chacompanies.com

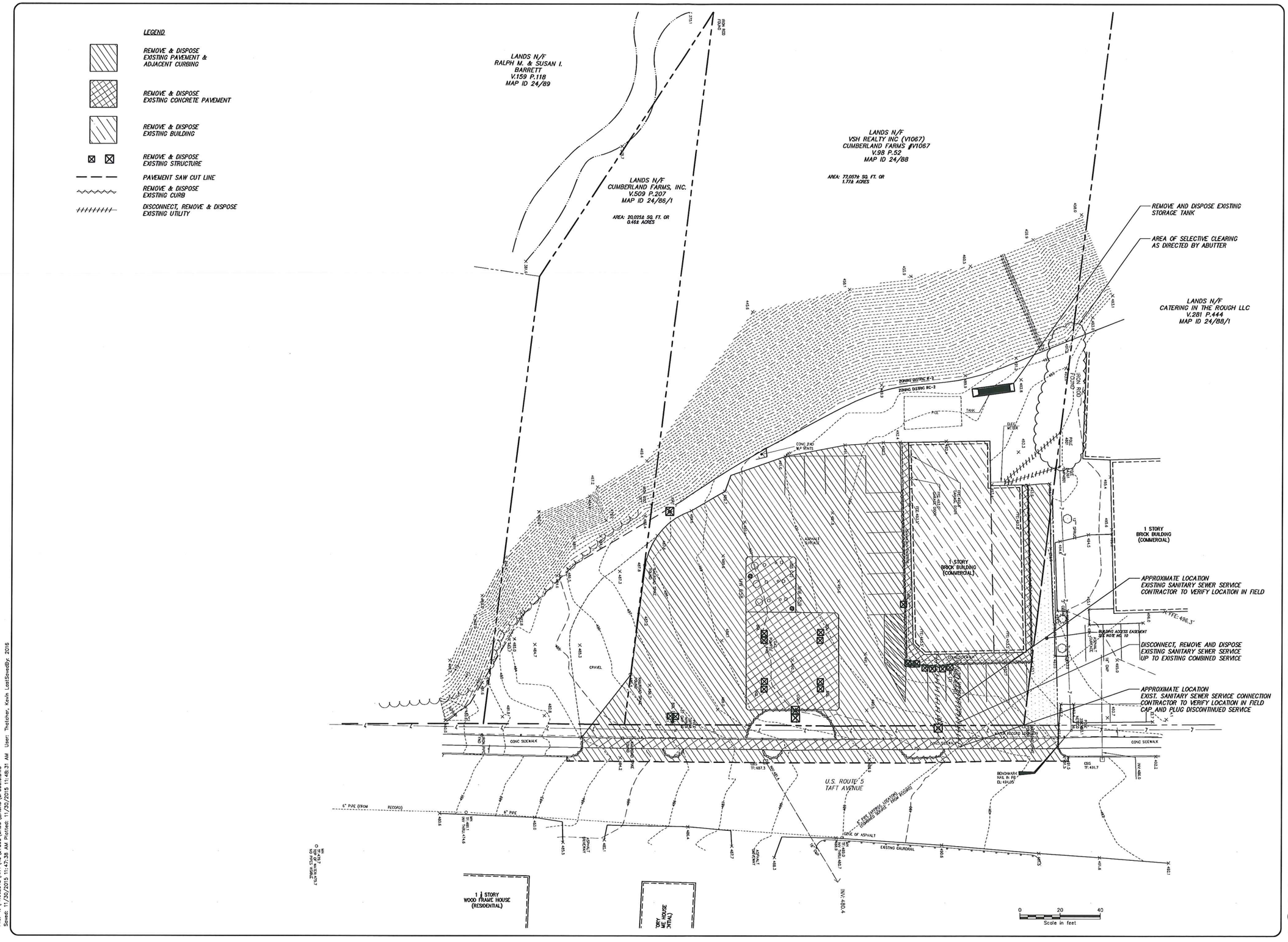
CHA Project Number: 27865-2000

Survey Service Group

ALTA/ACSM LAND TITLE SURVEY LANDS N/F
VSH REALTY INC (V1067)
CUMBERLAND FARMS #V1067
DEED REF: VOL.98 P.52

Town of Hartford *County of Windsor*
State of Vermont

Scale: 1" = 30'	Date: February 10, 2014	Sheet 1 of 1



No.	Submittal / Revision	Apprd	By	Date
1	RESUBMIT FOR SITE PLAN REVIEW	RJF	KDT	04/13/15
2	REVISE DRIVEWAY	RJF	KDT	08/17/15
3	REVISE DRIVEWAY PER VTRANS	RJF	KDT	11/11/15
4	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/20/15

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

TAX MAP #24-0088-000

STATE OF VERMONT · RICHARD J. FAULKNER · No. 7203 · REGISTERED PROFESSIONAL ENGINEER

UNLIMITED ALTERATION OR ADDITION APPLICABLE STATE AND/OR LOCAL LAWS

Drawing Copyright © 2014

CHA
11 Dog Court · Keene, NH 03431-6403
Main: (603) 357-3445 · www.chacompanies.com

Designed: JDM | Drawn: JDM | Checked: RJF

PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE DEMOLITION PLAN

Issue Date: 05/30/14 | Project No.: 27885 | Scale: AS NOTED

CFG03.0

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ZONING: RESIDENTIAL–COMMERCIAL 2 (RC–2)					
INTENSITY REGULATIONS					
	REQUIRED	EXISTING		PROPOSED	
PARCEL ID		#24–0088–000		#24–0088–000 & #24–0086–001	
LOT AREA	6,000 SF (min.)	77,057 SF		97,082 SF	
LOT WIDTH	50 ft. (min.)	197 ft.		268 ft.	
LOT DEPTH	50 ft. (min.)	357 ft.		357 ft.	
LOT COVERAGE	65% (max.)	31.7%		22.9%	
OPEN SPACE	15% (min.)	68%		77.1%	
STRUCTURE HEIGHT	40 ft. (max.)	less than 40 ft.		32 ft 10 in..	
		BUILDING	CANOPY	BUILDING	CANOPY
FRONT SETBACK (W)	20 ft. (min.)	35 ft.		94.8 ft.	28.9 ft.
SIDE SETBACK (N)	10 ft. (min.)	122 ft.		141.3 ft.	118.8 ft.
SIDE SETBACK (S)	10 ft. (min.)	0 ft.		13.8 ft.	46.6 ft.
REAR SETBACK (E)	20 ft. (min.)	233 ft.		210.2 ft.	301.7 ft.

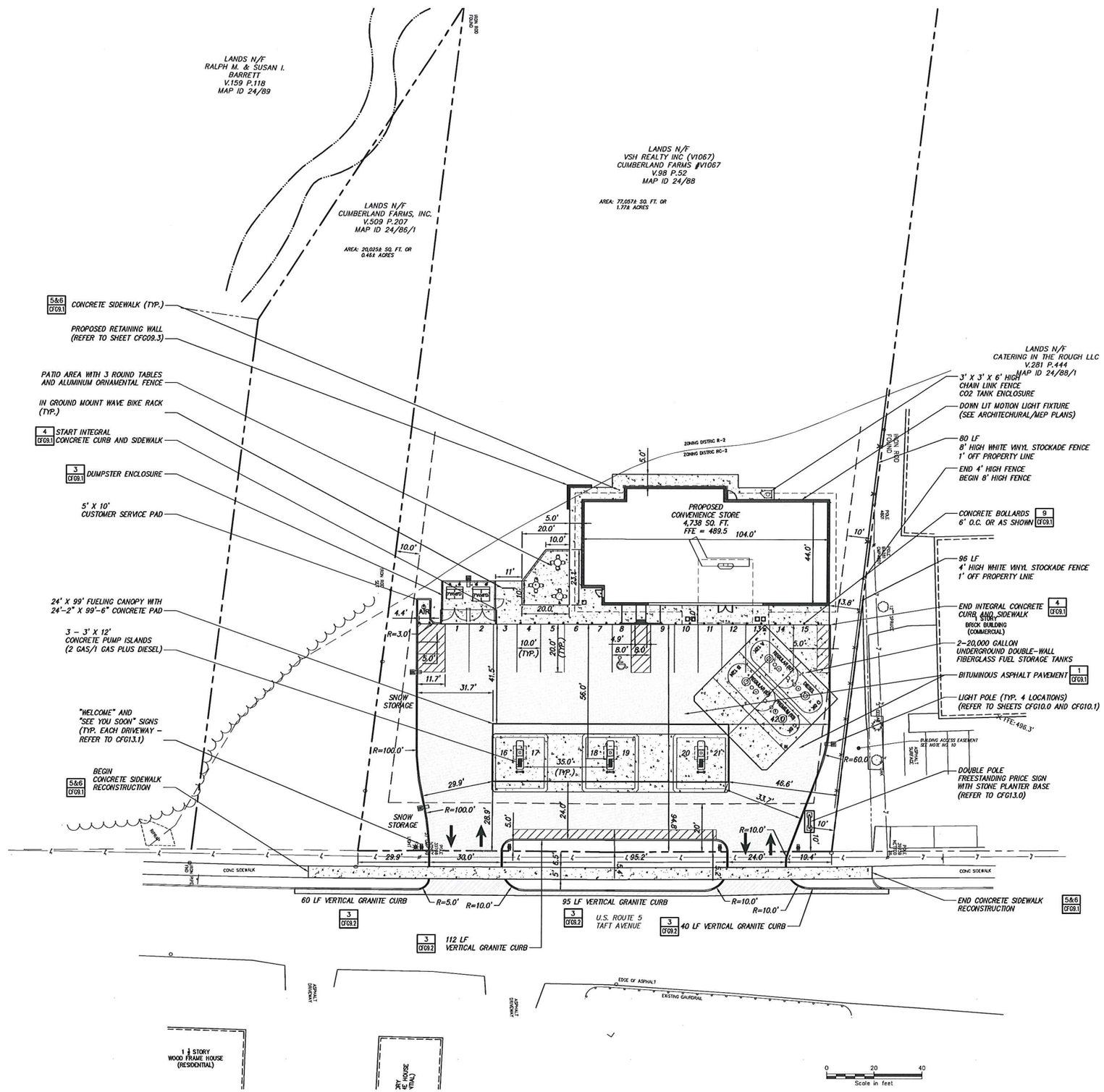
PARKING CALCULATIONS	
SECTION 260–24 C. (9)(a) FOR OFFICE OR RETAIL and RESTAURANT, BAR... 1 PER 300 SQUARE FEET OF GROSS LEASABLE AREA 1 PER 3 SEATS	
PROPOSED CONVENIENCE STORE	(4,738) / 300 = 15.79 (16) (12) / 3 = 4
SPACES REQUIRED =	20 SPACES
SPACES PROVIDED =	21 SPACES

LAYOUT NOTES:

1. ALL DIMENSIONS MEASURED TO/FROM FACE OF CURB.
2. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

CURBING NOTE:

1. ALL PROPOSED CURB TO BE SLOPED GRANITE CURB, UNLESS OTHERWISE NOTED. 10 CFG9.1



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CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702
TAX MAP #24–0088–000

STATE OF VERMONT ROBERT J. FAULKNER No. 7203 REGISTERED PROFESSIONAL ENGINEER

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

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11 Hog Court • Keene, NH 03431-4445
Main: (603) 357-3445 • www.chacompanies.com

Designed: KDT | Drawn: JDM | Checked: RJF

PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE PLAN

Issue Date: 05/30/14 | Project No.: 27865 | Scale: AS NOTED

CFG04.0

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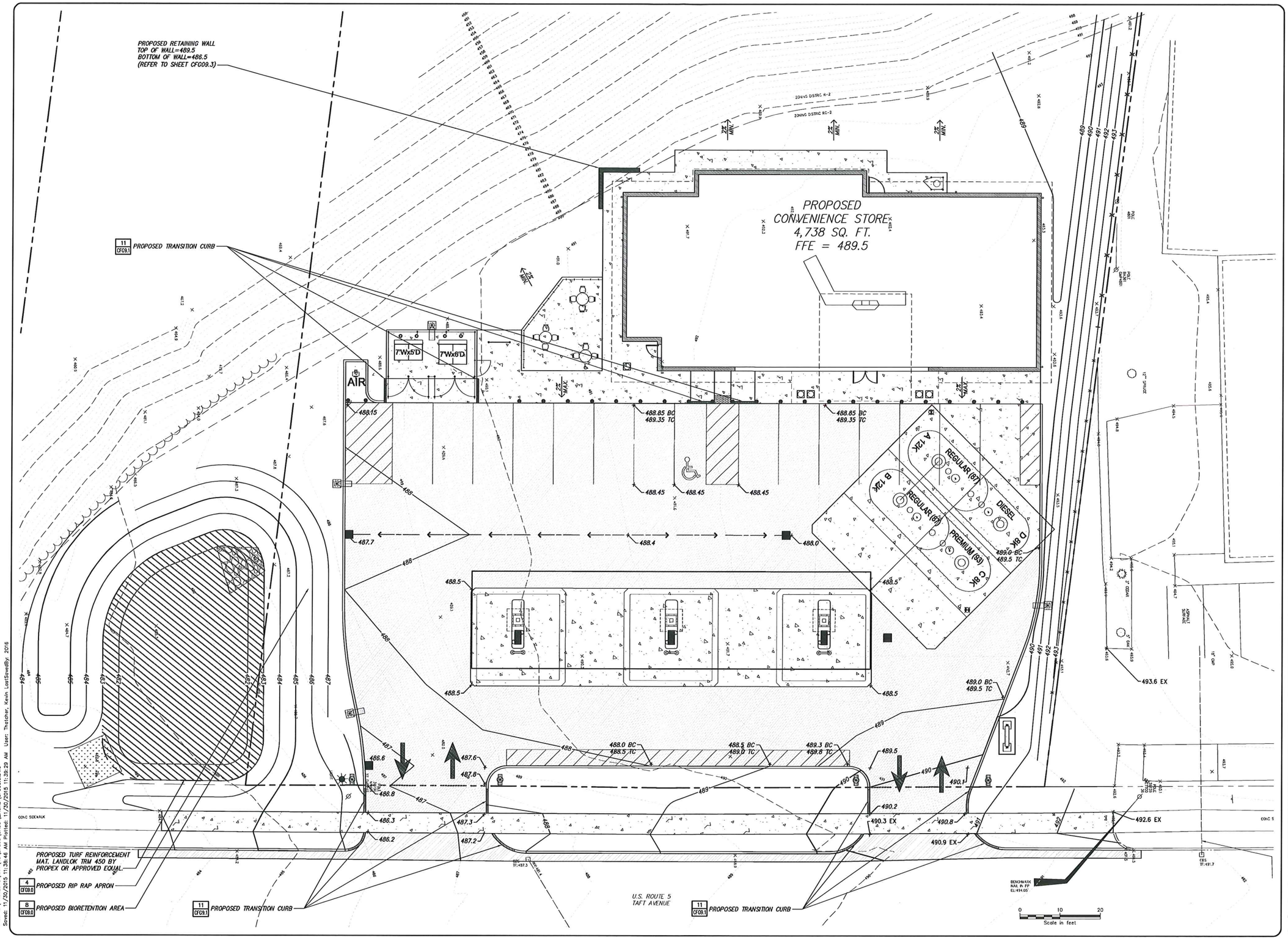

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4	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/30/15
5	REVISE PER VTRANS	RJF	KDT	06/05/16

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

Cumberland FARMS

TAX MAP #24-0088-000

STATE OF VERMONT
ROBERT J. FAULKNER
No. 7223
REGISTERED PROFESSIONAL ENGINEER

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Designed: KDT | Drawn: JDM | Checked: RJF

PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE GRADING PLAN

Issue Date: 05/30/14 | Project No.: 27865 | Scale: AS NOTED

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SEDIMENT & EROSION CONTROL NOTES

MANAGEMENT STRATEGIES

1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE. BARRICADE ALL OTHER ACCESS POINTS.
2. TEMPORARY SEED AND MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING.
3. EROSION CONTROL MEASURES SHALL BE INSPECTED CONTINUOUSLY, ESPECIALLY FOLLOWING SIGNIFICANT STORM EVENTS TO LOCATE FAILING CONTROL MEASURES AND CONDUCT ROUTINE MAINTENANCE OPERATIONS.
4. THE CONSTRUCTION SUPERINTENDENT SHALL INFORM ALL ON-SITE WORKERS OF THE EROSION CONTROL PROGRAM.
5. ALL SEDIMENT THAT IS WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.

VEGETATIVE CONTROL PRACTICES

1. TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED WITH SILT FENCE PROTECTION FOR LATER USE. STOCKPILE LOCATION SHALL BE APPROVED BY THE OWNER AND ENGINEER.
2. TEMPORARY SEEDING: THE TEMPORARY SEDIMENT BASINS, TOPSOIL STOCKPILE AND ROUGH GRADED AREAS SHALL BE SEEDED WITH WINTER RYE AT A RATE OF 120 LBS. PER ACRE. ANY SOILS THAT ARE LEFT EXPOSED AND UNDISTURBED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED.
3. SITE PREPARATION
   - -COMPLETE ALL ROUGH GRADING ACTIVITIES
   - -REMOVE ALL ROCKS AND DEBRIS LARGER THAN 3" IN DIAMETER FROM AREAS TO BE TEMPORARILY SEEDED.
   - -EVENLY APPLY LIME TO ACHIEVE A PH VALUE OF 6.0.
   - -EVENLY APPLY 100 LBS. OF 10-10-10 ANALYSIS FERTILIZER PER ACRE.
   - -SEEDBED IS TO BE LEFT IN FIRM AND SMOOTH CONDITION.
   - -THE LAST TILLAGE OPERATION SHALL BE PERFORMED ACROSS THE SLOPE.
4. ESTABLISHMENT
   - -EVENLY APPLY SEED BY MEANS OF BROADCASTING OR HYDROSEEDING.
   - -UNLESS HYDROSEEDED, COVER SEED WITH 1/4" TO 1/2" OF TOPSOIL
   - -APPLY MULCH IMMEDIATELY FOLLOWING SEEDING.
   - -VERIFY SEEDING DATES WITH ENGINEER. IF ENGINEER DETERMINES THAT SEED CANNOT BE APPLIED DUE TO CLIMATE, TOPSOIL SHALL NOT BE SPREAD AND MULCHING SHALL BE APPLIED TO THE EXPOSED SURFACE TO STABILIZE SOILS UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
   - -PERMANENT SEEDING SHALL BE APPLIED BETWEEN APRIL 15 AND JUNE 1 AND AUGUST 15 AND SEPTEMBER 30. TEMPORARY SEEDING SHALL BE APPLIED TO ALL DISTURBED AREAS OUTSIDE THIS TIME FRAME, UPON APPROVAL OF THE ENGINEER.
5. MAINTENANCE
   - -ALL SEEDED/MULCHED AREAS SHALL BE INSPECTED & WATERED REGULARLY BY THE CONTRACTOR TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

NONSTRUCTURAL CONTROL PRACTICES

1. SCARIFICATION: EXPOSED SLOPES EXCEEDING 4:1 SHALL BE SCARIFIED AT RIGHT ANGLES TO THE SLOPE. PROVIDE PERIODIC UPGRADING OF SERRATIONS DURING EXPOSED PERIOD UNTIL VEGETATION IS ESTABLISHED. PROVIDE VEGETATIVE COVER AS SOON AS POSSIBLE.
2. MULCH: HAY OR STRAW MULCH SHALL BE APPLIED IN CONJUNCTION WITH TEMPORARY/PERMANENT SEEDING AND TO GRADED AREAS WHICH REMAIN EXPOSED OUTSIDE OF RECOMMENDED SEEDING DATES. MULCH SHALL BE APPLIED AT 4000 LBS. PER ACRE. CONTRACTOR SHALL PERIODICALLY INSPECT AND REAPPLY AS NECESSARY, PARTICULARLY FOLLOWING SIGNIFICANT STORM EVENTS.
3. TOPSOIL: DISTURBED AREAS SHALL BE TOPSOILED PRIOR TO SEED APPLICATION, AND SHALL BE SUBJECT TO THE FOLLOWING STANDARDS:
   - -REMOVE ALL ROCKS AND DEBRIS OVER 1-1/2" IN DIAMETER.
   - -SCARIFY SURFACE PRIOR TO SEED APPLICATION.
   - -APPLY 6" DEPTH OF TOPSOIL
4. SILT FENCE: SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE. AT CULVERT OUTLET LOCATIONS, AND AS INDICATED ON THE DRAWINGS. SILT FENCE SHALL BE INSPECTED AND REPAIRED ROUTINELY, ESPECIALLY FOLLOWING SIGNIFICANT STORM EVENTS UNTIL THE SITE HAS BEEN STABILIZED BY VEGETATION.

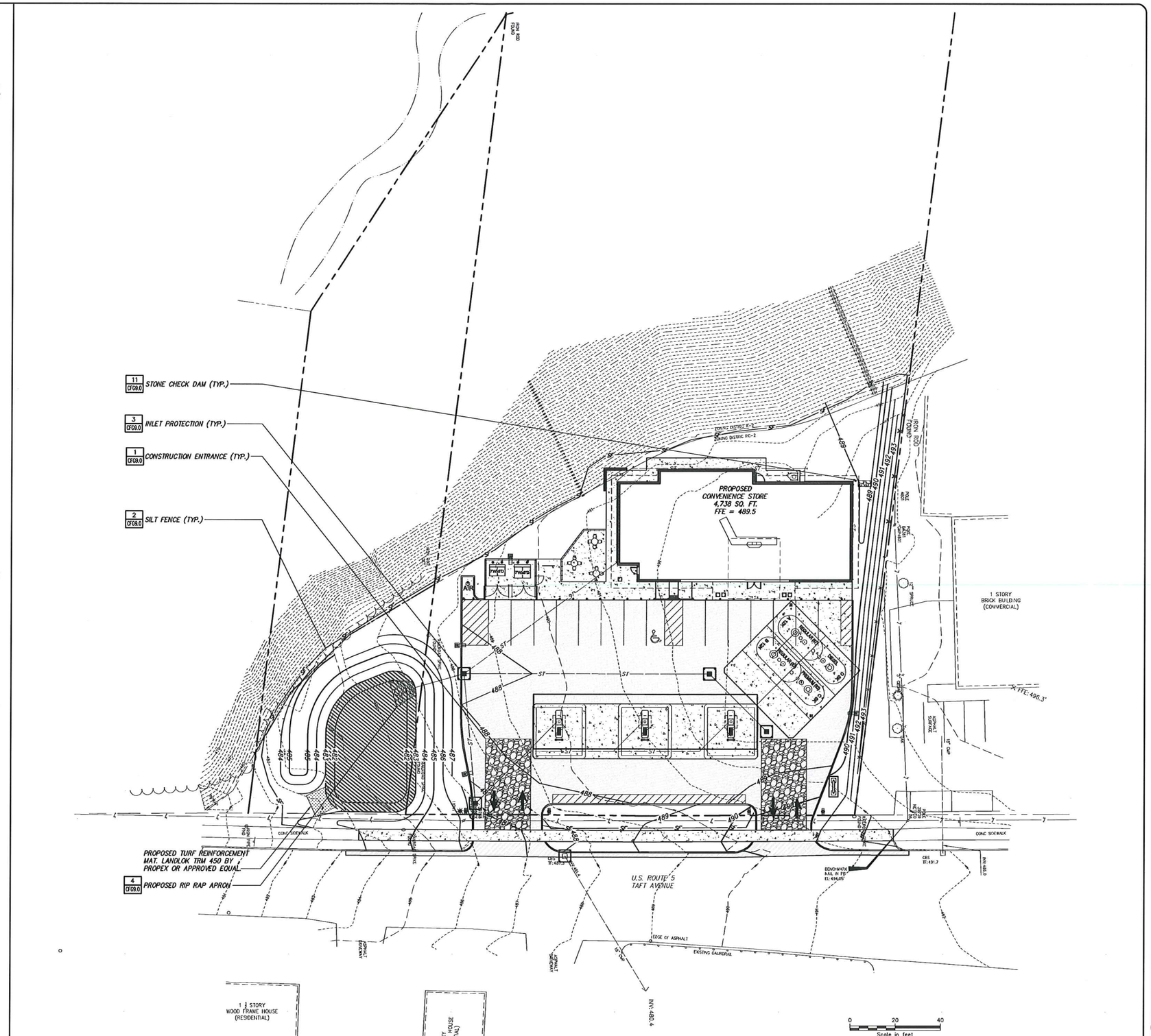
STRUCTURAL CONTROL PRACTICES

1. DUST CONTROL: IF NECESSARY TO CONTROL DUST, A WATER TRUCK SHALL BE AVAILABLE FOR DUST CONTROL WHILE WORK IS PROCEEDING.
2. MAINTENANCE: EROSION CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:
   - A. CB INLET PROTECTION SHALL BE INSPECTED FOR SILT ACCUMULATION. SEDIMENT SHALL BE REMOVED AFTER EACH STORM EVENT.
   - B. SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION. REMOVE SEDIMENT FROM BEHIND FENCE WHEN IT BECOMES 6 INCHES DEEP.
   - C. SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

UNLESS OTHERWISE SPECIFIED, ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AN SEDIMENT CONTROL" PUBLISHED BY VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

CONSTRUCTION SEQUENCE

1. MOBILIZATION
2. ESTABLISH ENGINEERING CONTROL.
3. STAKE CLEARING / DISTURBANCE LIMITS.
4. INSTALL EROSION CONTROL MEASURES.
5. CLEAR AND GRUB STAKED AREAS.
6. REMOVE, STOCKPILE AND STABILIZE TOPSOIL.
7. ROUGH GRADE SITE PER DESIGN PLANS.
8. INSTALL UTILITIES, SEWERS, WATER LINES, ETC.
9. CONSTRUCT BUILDING FOUNDATIONS.
10. APPLY GRAVEL TO PROPOSED PARKING AREAS.
11. CONSTRUCT BUILDINGS.
12. PAVE PROPOSED PARKING AREAS.
13. CLEAN ACCUMULATED SEDIMENT FROM EROSION CONTROL MEASURES.
14. COMPLETE FINAL GRADING AND INSTALL PERMANENT SEEDING.
15. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND GROUND STABILIZED, REMOVE EROSION CONTROL MEASURES AND RESEED ANY DISTURBED AREAS CREATED BY THEIR REMOVAL.



No.	Submittal / Revision	Appvd	By	Date
3	RESUBMIT FOR SITE PLAN REVIEW	RJF	KDT	04/13/15
2	REVISE DRIVEWAY	RJF	KDT	08/17/15
1	REVISE DRIVEWAY PER VTRANS	RJF	KDT	11/11/15
0	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/30/15

CUMBERLAND FARMS, INC.
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Framingham, MA 01702

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STATE OF VERMONT ROBERT J. FAULKNER No. 7223 LICENSED PROFESSIONAL ENGINEER

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PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE EROSION &
SEDIMENT CONTROL PLAN

Issue Date: 05/30/14 | Project No.: 27865 | Scale: AS NOTED

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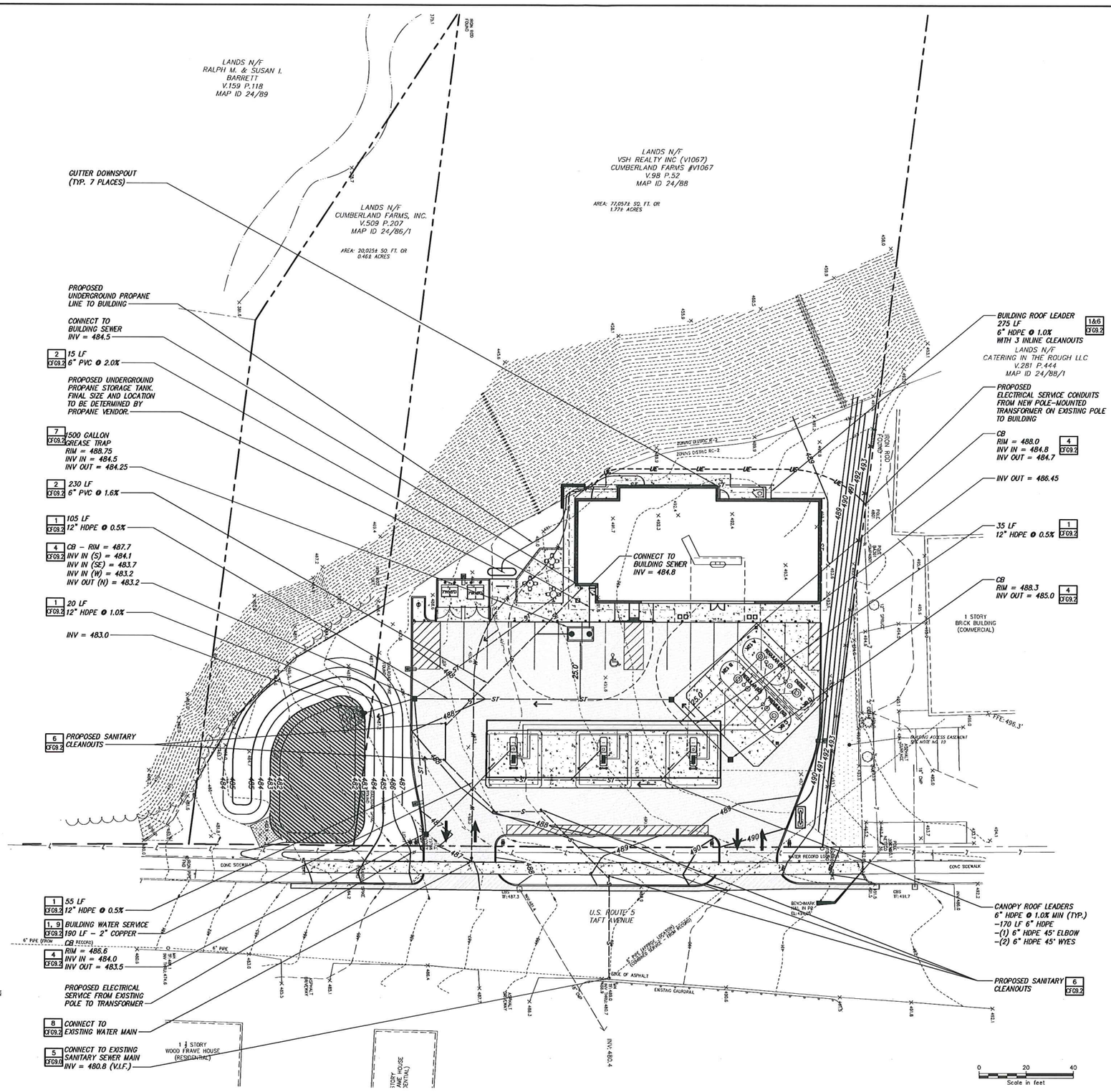

No.	Submittal / Revision	Apprd	By	Date
2	RESUBMIT FOR SITE PLAN REVIEW	RJF	KDT	04/13/15
3	REVISE DRIVEWAY	RJF	KDT	08/17/15
4	REVISE DRIVEWAY PER VTRANS	RJF	KDT	11/11/15
5	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/30/15

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

TAX MAP #24-0088-000

STATE OF VERMONT – REGISTERED PROFESSIONAL ENGINEER – No. 7203 – RYAN J. TRAUERNER

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PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE UTILITY PLAN

Issue Date: 05/30/14 | Project No.: 27665 | Scale: AS NOTED

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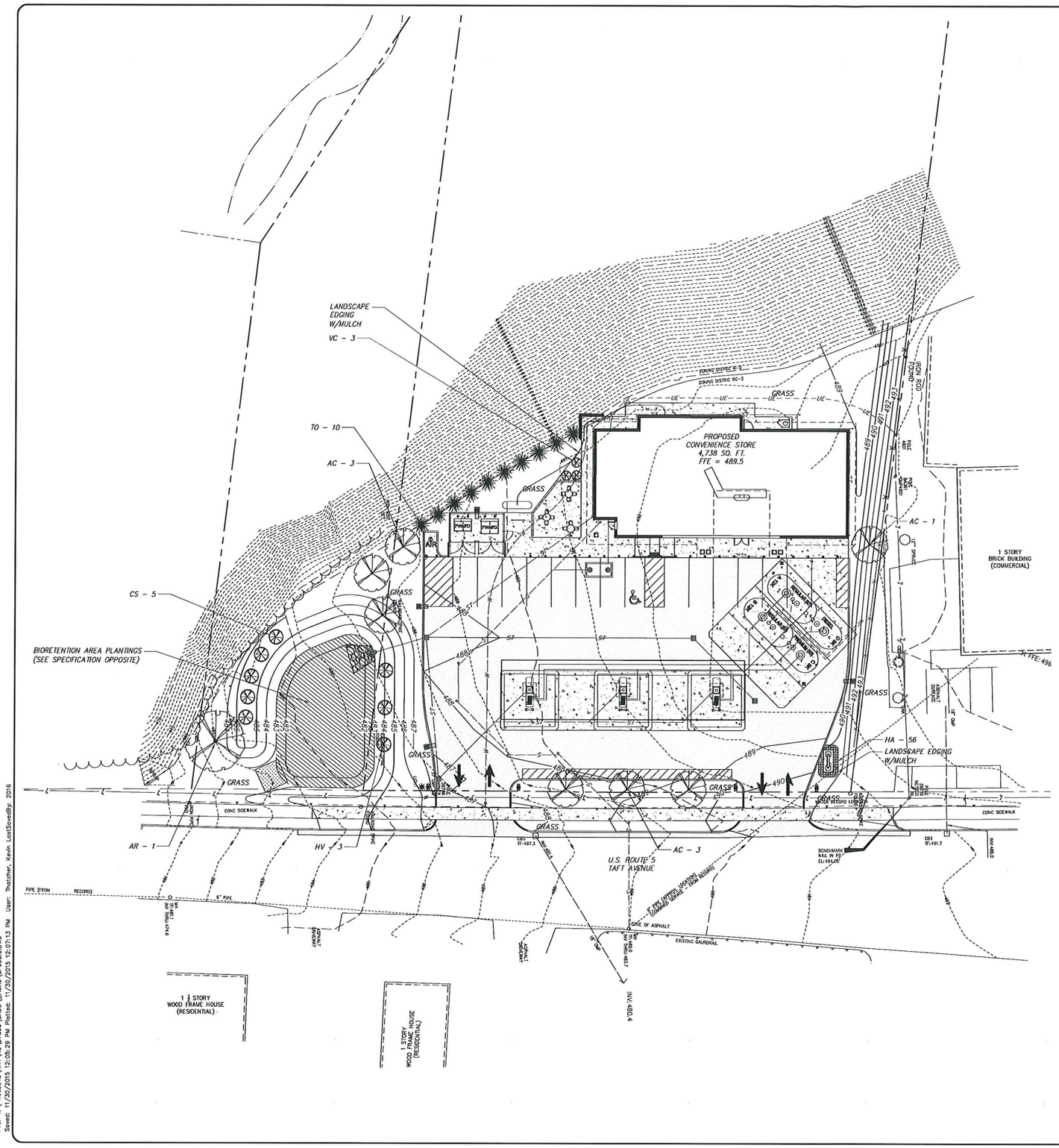

PLANT SCHEDULE[1]

SYMBOL	QTY	GENUS & SPECIES	COMMON NAME	PLANTING SIZE (AS NOTED)	ROOT	MATURE SIZE (HEIGHT x WIDTH)	NOTES
TREES							
AC	7	Amelanchier x grandidlora 'Autumn Brilliance'	Autumn Brilliance Amelanchier	7'–8' HT.	B&B	20' x 15'	White Spring Flower Multi-Stem
AR	1	Acer Rubrum 'Red Sunset'	Red Maple 'Red Sunset'	2.5–3" CAL.	B&B	60' x 20'	Red Fall Color
TO	10	Thuja occidentalis 'Techny'	Mission Arborvitae	6'–7' HT.	B&B	30' x 15'	8' o.c.
SHRUBS							
CS	5	Cornus Sericea	Red Twig Dogwood	5 GAL.	CONT.	8' x 8'	Red Stems in Winter
HV	3	Hamamelis Virginiana	Common Witchhazel	15 GAL.	CONT.	20' x 15'	Yellow Fragrant Flowers in Fall
VC	3	Viburnum trilobum 'Bailey Compact'	Bailey Compact American Cranberry	5 GAL.	CONT.	5' x 4'	Fragrant White Flowers in Spring
PERENNIALS							
HA	56	Hemerocallis x 'Alabama Jubilee'	Alabama Jubilee Daylily	3 GAL.	CONT.	30" x 2'	Orange Flowers in Summer

FOOTNOTES:
[1] Plant spacing is as shown on plan.

IRRIGATION NOTES:

1. ALL AREAS TO BE SEEDED, SODDED, OR PLANTED SHALL HAVE AN IRRIGATION SYSTEM. DESIGN BY OTHERS.

SITE PREPARATION NOTES:

1. IN ALL AREAS OF IMPERVIOUS COVER PROPOSED AS LAWN OR LANDSCAPE SHALL RECEIVE DEEP TILL OF A MINIMUM OF 18" PRIOR TO THE ADDITION OF TOPSOIL. CONTRACTOR SHALL TAKE CARE WITHIN EXISTING TREE DRIPLINE AND TILL TOP 6" BY HAND ONLY WITHIN EXISTING DRIPLINE. AFTER DEEP TILL IS COMPLETE, CLEAR AND GRUB EXISTING SITE SOIL AS REQUIRED TO THE SATISFACTION OF THE ENGINEER. AMEND TOP 6" OF EXISTING SOIL TO MEET TOPSOIL REQUIREMENTS PRIOR TO THE ADDITION OF 6" OF TOPSOIL.

TOPSOIL NOTES:

1. ALL AREAS TO BE SEEDED OR PLANTED SHALL RECEIVE TOPSOIL (6" MINIMUM DEPTH).
2. TOPSOIL SHALL CONSIST OF FERTILE, FRIABLE, NATURAL LOAM FREE OF SUBSOIL, CLAY LUMPS, BRUSH, STONES OR OTHER DELETERIOUS MATERIALS LARGER THAN 2" IN GREATEST DIMENSION CONFORMING TO THE REQUIREMENTS OF CONNDOT AND MEETING THE FOLLOWING GRADATION, pH AND ORGANIC CONTENT REQUIREMENTS:

SIEVE	PERCENT PASSING
2"	100
1"	85–100
¼"	65–100
NO. 200	20–60

3. PROPOSED TOPSOIL SHALL BE TESTED BY INDEPENDENT TESTING FACILITY WITH TEST RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. CONTRACTOR SHALL PAY FOR ALL TESTING. ACCEPTANCE OF TOPSOIL SHALL BE BASED UPON TEST RESULTS. ONE TEST SHALL BE PERFORMED PER 100 C.Y. OF TOPSOIL.
4. NATURAL TOPSOIL MAY BE AMENDED WITH APPROVED MATERIALS, BY APPROVED METHODS, TO MEET THE ABOVE SPECIFICATIONS.

SEEDING NOTES:

1. ALL AREAS TO BE SEEDED SHALL BE SOWN WITH THE FOLLOWING SEEDING MIX:
   30% NASSAU KENTUCKY BLUEGRASS
   25% BELMONT KENTUCKY BLUEGRASS
   25% P–105 KENTUCKY BLUEGRASS
   20% FINE TEXTURE RYE
2. WEED SEED CONTENT SHALL NOT EXCEED 0.25%
3. THE SEED MIXTURE SHALL BE DISTRIBUTED BY MEANS OF HYDRO–SEEDING.
4. THE FERTILIZER SHALL BE A 5–10–5 COMMERCIAL GRADE FERTILIZER APPLIED AT THE MANUFACTURERS RECOMMENDED APPLICATION RATE.
5. SEEDING APPLICATION RATE SHALL BE 5 LBS PER 1,000 SQ. FT.

GUARANTEE:

1. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN GUARANTEE FOR THE INSTALLED PLANT MATERIALS. THIS GUARANTEE SHALL BEGIN AT THE POINT OF SUBSTANTIAL COMPLETION AND EXTEND FOR A PERIOD NOT LESS THAN ONE (1) YEAR. ALL PLANT MATERIALS, INSTALLATION AND MAINTENANCE SHALL BE INCLUDED. THE GUARANTEE SHALL BE ADMINISTERED AT THE DISCRETION OF THE ENGINEER.

BIORETENTION AREA PLANTNG:

THE BIORETENTION AREA SHALL BE SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX, BY NEW ENGLAND WETLAND PLANTS, OR APPROVED EQUAL, APPLIED IN ACCORDANCE WITH SUPPLIERS SPECIFICATIONS.

No.	Submittal / Revision	Appvd	By	Date
1	RESUBMIT FOR SITE PLAN REVIEW	RJF	KGT	04/13/15
2	REVISE DRIVEWAY	RJF	KGT	08/17/15
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CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

Cumberland FARMS

TAX MAP #24-0088-000

STATE OF VERMONT ★ HOWARD F. HUNKER ★ No. 7223 ★ REGISTERED PROFESSIONAL ENGINEER

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PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE LANDSCAPING PLAN

Issue Date: 05/30/14 | Project No.: 27885 | Scale: AS NOTED

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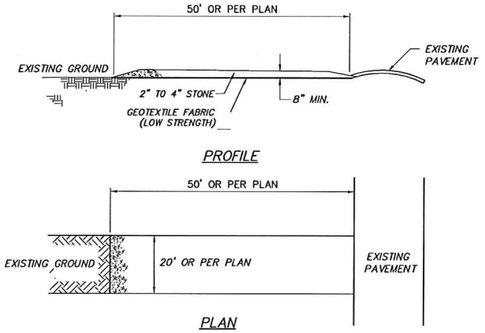
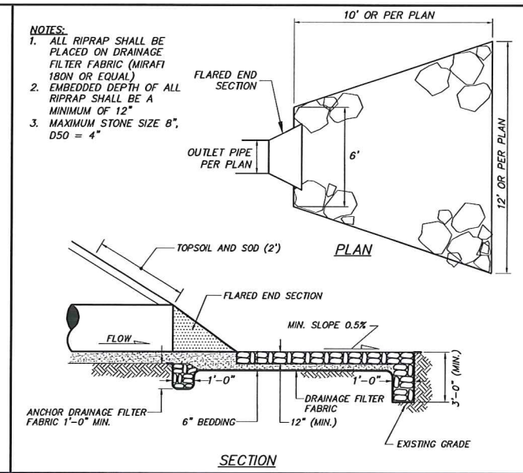


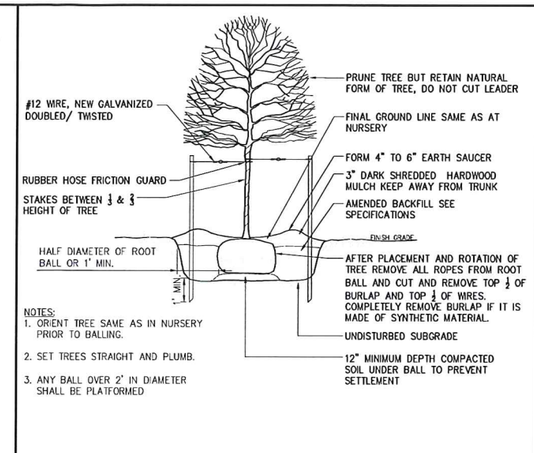
NOTES:
1. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
2. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAINFALL EVENT.

1 STABILIZED CONSTRUCTION ENTRANCE
SECTION, PLAN — SCALE: N.T.S.

NOTES:
1. ALL RIPRAP SHALL BE PLACED ON DRAINAGE FILTER FABRIC (MIRAFI 180N OR EQUAL)
2. EMBEDDED DEPTH OF ALL RIPRAP SHALL BE A MINIMUM OF 12"
3. MAXIMUM STONE SIZE 8", D50 = 4"

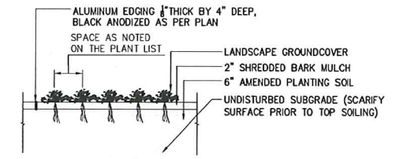


4 RIPRAP APRON
SECTION, PLAN — SCALE: N.T.S.



NOTES:
1. ORIENT TREE SAME AS IN NURSERY PRIOR TO BALLING.
2. SET TREES STRAIGHT AND PLUMB.
3. ANY BALL OVER 2' IN DIAMETER SHALL BE PLATFORMED

6 TYPICAL TREE PLANTING
SECTION — SCALE: N.T.S.

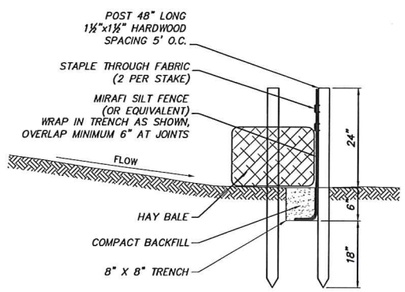


9 TYPICAL PERENNIAL & GROUNDCOVER PLANTING
SECTION — SCALE: N.T.S.

PARAMETER	VALUE
pH RANGE	5.2 TO 7.00
ORGANIC MATTER	3.0 TO 4.0% (BY VOLUME)
PHOSPHORUS	P–INDEX 10–30
SOLUBLE SALTS	≤ 500 PPM
FINES (SILT & CLAY)	8 TO 12%
MASON SAND	85 TO 88%

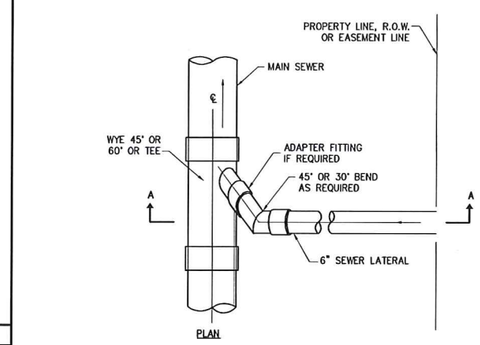
A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED.

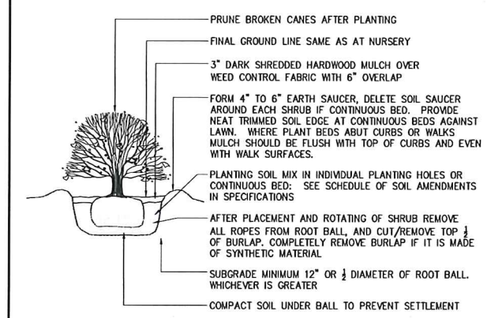
10 PLANTING/FILTER SOIL CHARACTERISTICS
TABLE — SCALE: N.T.S.



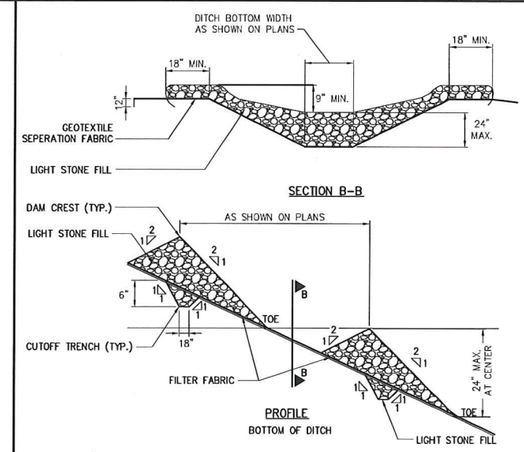
NOTES:
1. THE FENCING SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT TO ENSURE ITS PROPER FUNCTIONING. IF THE FENCING IS DAMAGED IT SHALL BE REPAIRED IMMEDIATELY.
2. WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, ALL THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACKFILLED WITH TOPSOIL AND SEEDED.

2 SILT FENCE
SECTION — SCALE: N.T.S.

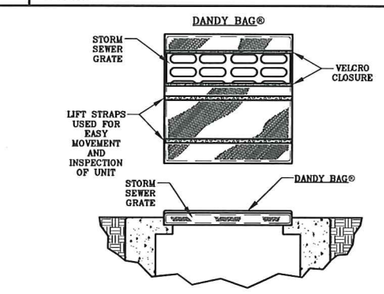




7 TYPICAL SHRUB PLANTING
SECTION — SCALE: N.T.S.



11 STONE CHECK DAM
PROFILE, SECTION — SCALE: N.T.S.

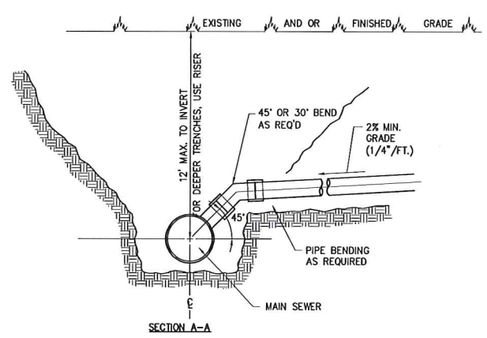


MATERIAL: DANDY BAG® BY DANDY PRODUCTS INC. OR APRROVED EQUAL

INSTALLATION:
1. PLACE THE EMPTY DANDY BAG® OVER THE GRATE AS THE GRATE STANDS ON END.
2. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW–GRADE SIDE) OF THE UNIT.
3. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
4. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE:
1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG® AS NEEDED.
2. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

3 CATCH BASIN INLET PROTECTION
SECTION, PLAN — SCALE: N.T.S.



5 SANITARY SEWER SERVICE
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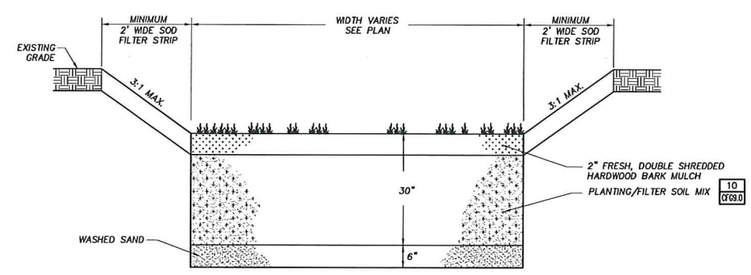

8 BIORETENTION AREA TYPICAL CROSS-SECTION
SECTION

No.	Submittal / Revision	App'd	By	Date
1	RESUBMIT FOR SITE PLAN REVIEW	RJF	KDT	04/13/15
2	REVISE DRIVEWAY	RJF	KDT	08/17/15
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4	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/30/15

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702
Cumberland FARMS
TAX MAP #24-0088-000

STATE OF VERMONT — STEPHEN T. MUGNIER — No. 7323 — REGISTERED PROFESSIONAL ENGINEER

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CHA
11 Kring Court • Keene, NH 03431-4045
Main: (603) 357-5445 • www.chacompanies.com

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Designed: JDM | Drawn: JDM | Checked: RJF

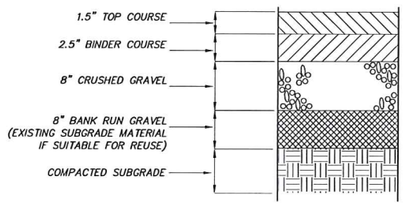
PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE CONSTRUCTION DETAILS

Issue Date: 06/09/14 | Project No.: 27865 | Scale: AS NOTED

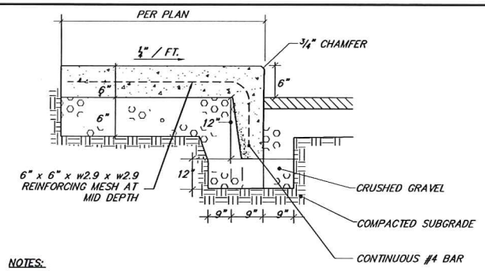
CFG09.0

File: V:\PROJECTS\ANY\X3\27865\CADD_ACAD\CFG09.0.DWG
Saved: 1/6/2015 9:22:15 AM Plotted: 11/30/2015 12:10:41 PM User: Thatcher, Kevin LastSavedBy: 2016



1 BITUMINOUS ASPHALT CONCRETE PAVEMENT SECTION

SECTION — SCALE: N.T.S.

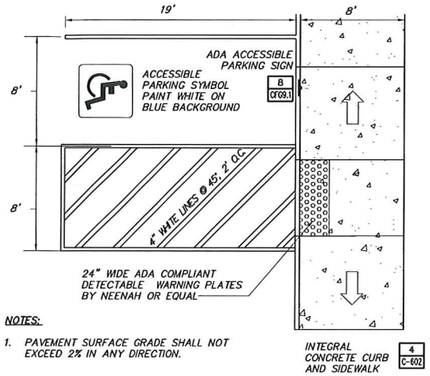


NOTES:

1. TRANSVERSE EXPANSION JOINTS TO BE PLACED AT A MAXIMUM LONGITUDINAL SPACING OF 20'.
2. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES.
3. TRANSVERSE 1/4" SCORE/CONTROL JOINTS TO BE CONSTRUCTED AT 5' INTERVALS, NO LONGITUDINAL JOINTS.
4. BROOM FINISH SURFACE PERPENDICULAR TO PEDESTRIAN FLOW.
5. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
6. PROVIDE A MINIMUM OF 4' FREE-DRAINING MATERIAL (<3% PASSING #200 SIEVE) BENEATH GRAVEL BASE WHERE SIDEWALK ABUTS BUILDING.

4 INTEGRAL CONCRETE CURB & SIDEWALK

SECTION — SCALE: N.T.S.

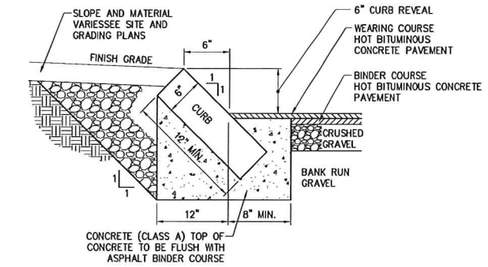


NOTES:

1. PAVEMENT SURFACE GRADE SHALL NOT EXCEED 2% IN ANY DIRECTION.

7 ADA ACCESSIBLE PARKING SPACE LAYOUT

SECTION — SCALE: N.T.S.

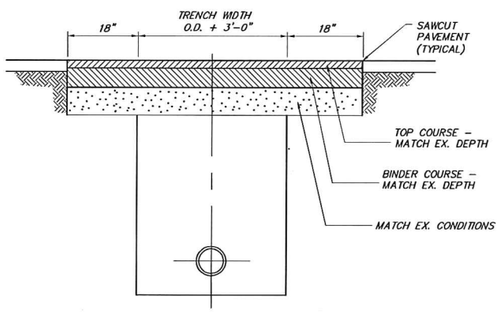


1. MAXIMUM LENGTH OF STRAIGHT CURB STONES – 18"
2. MINIMUM LENGTH OF STRAIGHT CURB STONES – 8'
3. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES – SEE TABLE.
4. ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES LAID SHALL HAVE THE SAME OR APPROX. THE SAME LENGTH.
5. SEE PAVEMENT DETAIL FOR SPECIFICATIONS ON PAVEMENT & GRAVEL.

RADIUS FOR STONES WITH SQUARE JOINTS	RADIUS FOR STONES WITH RADIAL JOINTS	MAXIMUM LENGTH
16'–28'	SEE CURB SECTIONS ON RADII DETAIL	1'–6"
29'–41'		2'
42'–55'		3'
56'–68'		4'
69'–82'		5'
83'–96'		6'
97'–110'		7'
OVER 110'		8'

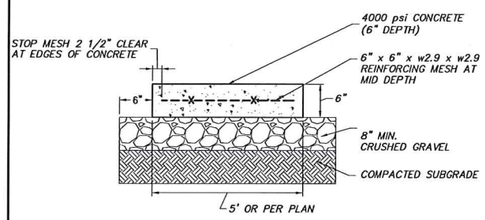
10 SLOPED GRANITE CURB (SGC)

SECTION — SCALE: N.T.S.



2 PAVEMENT REPLACEMENT

SECTION — SCALE: N.T.S.



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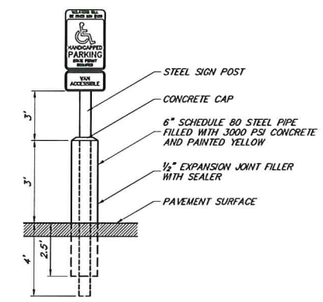
6. PROVIDE A MINIMUM OF 4' FREE-DRAINING MATERIAL (<3% PASSING #200 SIEVE) BENEATH GRAVEL BASE WHERE SIDEWALK ABUTS BUILDING.

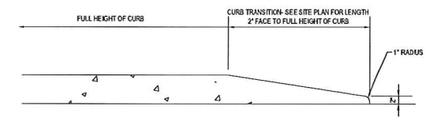
5 CONCRETE SIDEWALK

SECTION — SCALE: N.T.S.



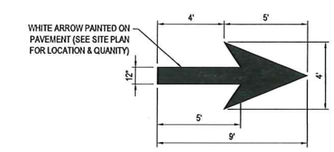
8 ADA ACCESSIBLE PARKING SIGN

SECTION — SCALE: N.T.S.



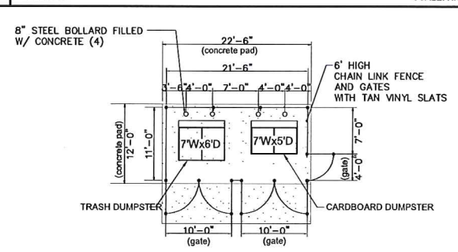
11 TRANSITION CURB

SECTION — SCALE: N.T.S.

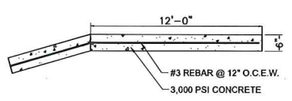


12 PAINTED ARROW

SECTION — SCALE: N.T.S.



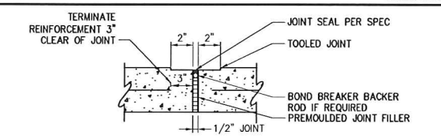
PLAN VIEW



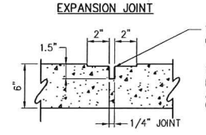
SLAB SECTION

3 DUMPSTER ENCLOSURE

SECTION — SCALE: N.T.S.

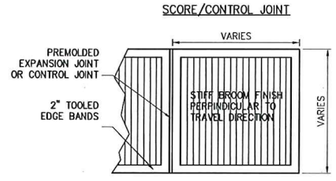


EXPANSION JOINT



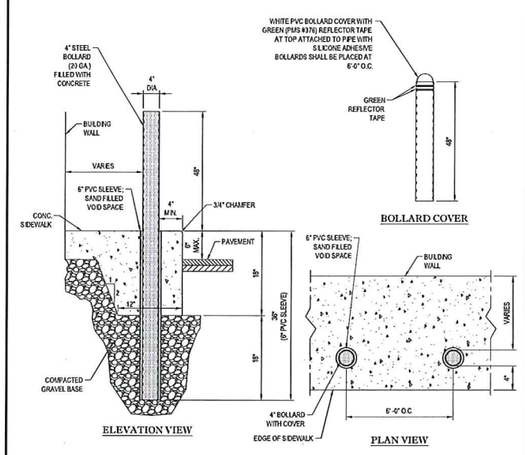
TOOLING (TO CREATE 2" EDGE BANDS) SHALL ALSO OCCUR AROUND ENTIRE PERIMETER OF CONC. WALK PAVEMENT.

SCORE/CONTROL JOINT



6 CONCRETE SIDEWALK JOINTING AN FINISHING

SECTION — SCALE: N.T.S.



9 BOLLARD

SECTION — SCALE: N.T.S.

No.	Submittal / Revision	Appd	By	Date
1	RESUBMIT FOR SITE PLAN REVIEW	RJF	KDT	04/13/15
2	REVISE DRIVEWAY	RJF	KDT	08/17/15
3	REVISE DRIVEWAY PER VTRANS	RJF	KDT	11/11/15
4	SUBMIT FOR ZONING PERMIT	RJF	KDT	11/30/15

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

TAX MAP #24-0088-000

STATE OF VERMONT — J. FAULKNER — No. 7293 — REGISTERED PROFESSIONAL ENGINEER

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Designed: JDM | Drawn: JDM | Checked: RJF

PROPOSED CONVENIENCE STORE
1167 HARTFORD AVENUE (US 5)
WHITE RIVER JUNCTION, VT 05001

SITE CONSTRUCTION DETAILS

Issue Date: 05/30/14 | Project No.: 27865 | Scale: AS NOTED

CFG09.1

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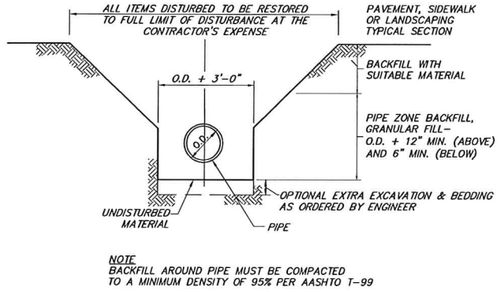
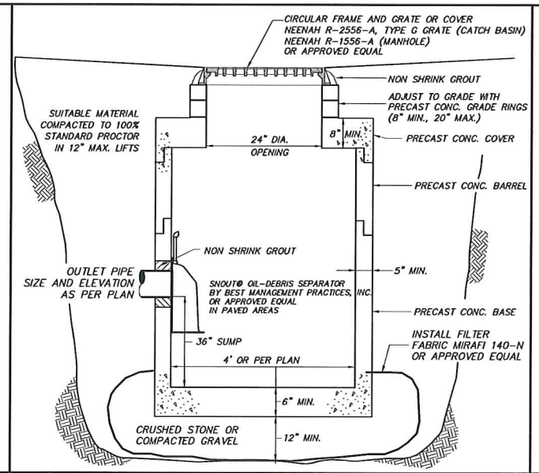


NOTE
BACKFILL AROUND PIPE MUST BE COMPACTED TO A MINIMUM DENSITY OF 95% PER AASHTO T-99

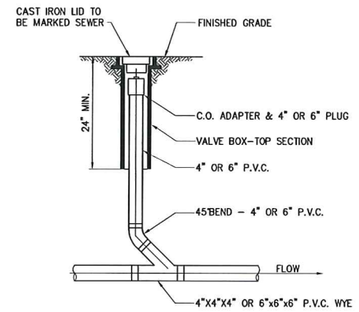
1 TYPICAL WATER/DRAINAGE TRENCH

SECTION — SCALE: N.T.S.



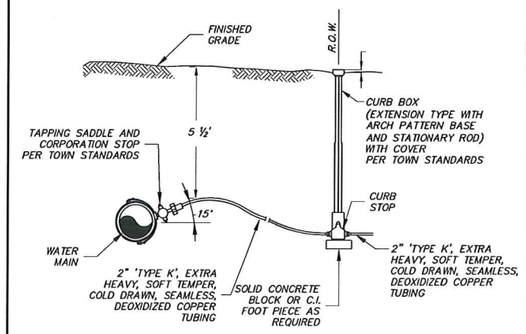
4 CATCH BASIN/DRAINAGE MANHOLE

SECTION — SCALE: N.T.S.



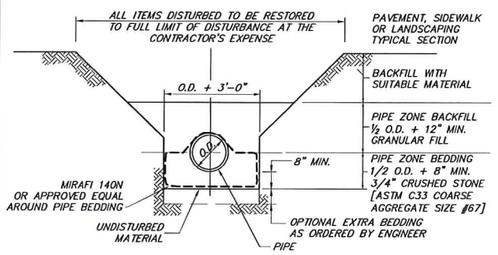
6 IN-LINE CLEANOUT

SECTION — SCALE: N.T.S.



8 WATER SERVICE

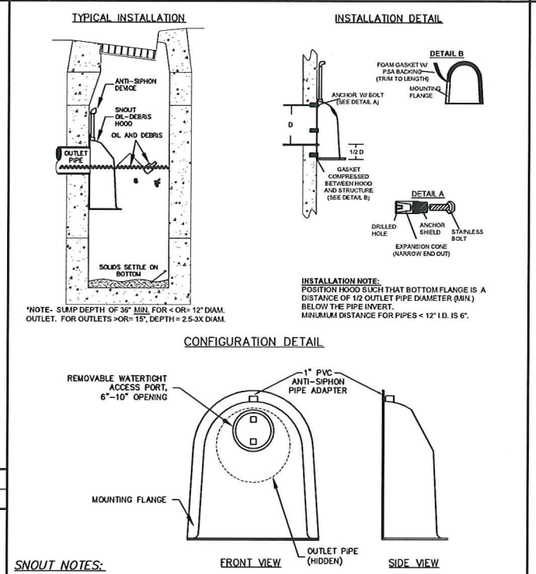
SECTION — SCALE: N.T.S.



NOTE
BACKFILL AROUND PIPE MUST BE COMPACTED TO A MINIMUM DENSITY OF 95% PER AASHTO T-99

2 TYPICAL SANITARY SEWER TRENCH

SECTION — SCALE: N.T.S.

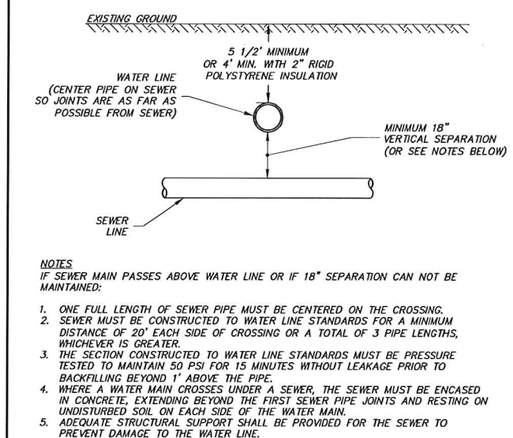


SNOUT NOTES:

1. ALL NEW AND/OR EXISTING CATCH BASINS OR WATER QUALITY STRUCTURES SHALL BE OUTFITTED WITH THE SNOUT® OIL-DEBRIS SEPARATOR AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUAL.
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
   A. INSTALLATION INSTRUCTIONS
   B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
   C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
   D. 3/8" STAINLESS STEEL BOLTS
   E. ANCHOR SHIELDS

5 CATCH BASIN HOOD

SECTION — SCALE: N.T.S.

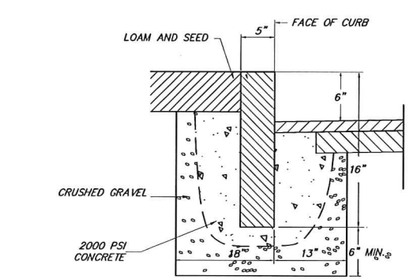


NOTES
IF SEWER MAIN PASSES ABOVE WATER LINE OR IF 18" SEPARATION CAN NOT BE MAINTAINED:

1. ONE FULL LENGTH OF SEWER PIPE MUST BE CENTERED ON THE CROSSING.
2. SEWER MUST BE CONSTRUCTED TO WATER LINE STANDARDS FOR A MINIMUM DISTANCE OF 20' EACH SIDE OF CROSSING OR A TOTAL OF 3 PIPE LENGTHS, WHICHEVER IS GREATER.
3. THE SECTION CONSTRUCTED TO WATER LINE STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND 1' ABOVE THE PIPE.
4. WHERE A WATER MAIN CROSSES UNDER A SEWER, THE SEWER MUST BE ENCASED IN CONCRETE, EXTENDING BEYOND THE FIRST SEWER PIPE JOINTS AND RESTING ON UNDISTURBED SOIL ON EACH SIDE OF THE WATER MAIN.
5. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER LINE.

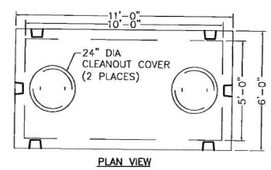
9 WATER/SEWER LINE CROSSING

SECTION — SCALE: N.T.S.

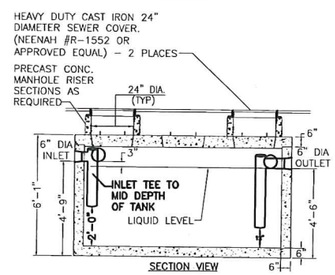


3 VERTICAL GRANITE CURB

SECTION — SCALE: N.T.S.



PLAN VIEW



	WEIGHT
SHEA ITEM NO. TK-M1500C	22,840#

COMMERCIAL LINE TANK
1500 GALLON MONOLITHIC

NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. FINAL DESIGN OF GREASE TRAP TO MEET ALL LOCAL AND STATE REQUIREMENTS.
3. ALL REINFORCEMENT PER ASTM C1227-93.
4. DESIGNED FOR H-20 LOADING.
5. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
6. TEES AND BAFFLES SOLD SEPARATELY.
7. GREASE TRAP AS MANUFACTURED BY SHEA CONCRETE PRODUCTS OR APPROVED EQUAL.
8. CONTRACTOR TO PROVIDE DESIGN ENGINEER SHOP DRAWINGS PRIOR TO CONSTRUCTION.

7 1500 GALLON GREASE TRAP

SECTION — SCALE: N.T.S.

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CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

Cumberland FARMS

TAX MAP #24-0088-000

STATE OF VERMONT — REGISTERED PROFESSIONAL ENGINEER — No. 7223 — ROBERT J. FAULKNER

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Main: (603) 357-3649 · www.chacompanies.com

Designed: JDM | Drawn: JDM | Checked: RJF

PROPOSED CONVENIENCE STORE
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WHITE RIVER JUNCTION, VT 05001

SITE CONSTRUCTION DETAILS

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CFG09.2

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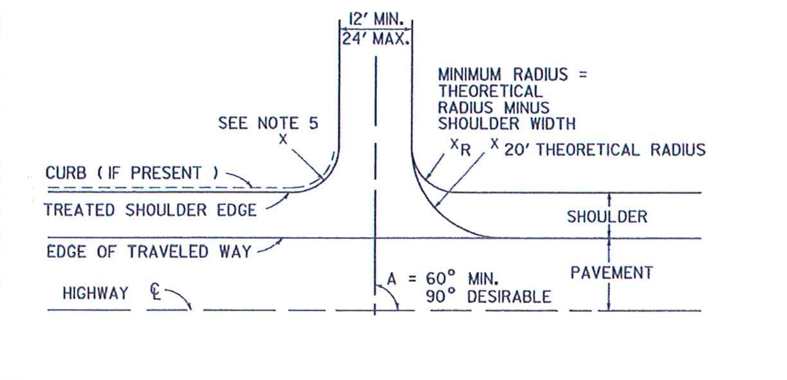
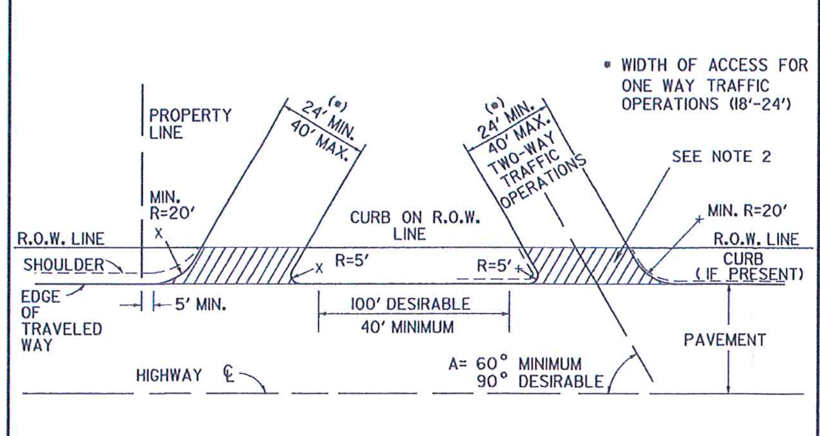
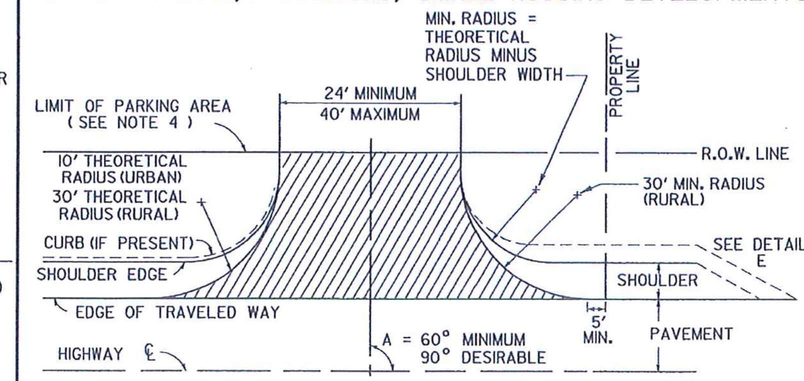
DETAIL A RESIDENTIAL DRIVE



DETAIL B DUAL COMMERCIAL DRIVE TO BE USED ONLY UNDER SPECIAL CONDITIONS



DETAIL C TWO-WAY UNDIVIDED COMMERCIAL DRIVE FOR SINGLE STORES, BUSINESSES, SMALL HOUSING DEVELOPMENTS

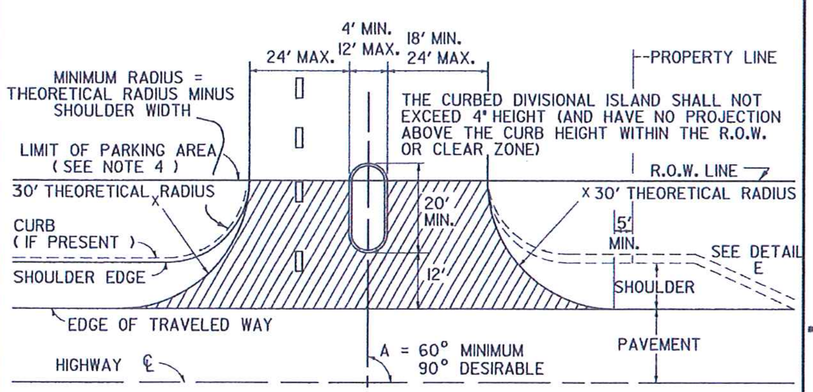


THIS DETAIL WILL ALSO APPLY TO COMMERCIAL SERVICE DRIVES, WHEN AUTHORIZED, HAVING A MAXIMUM WIDTH OF 20'. THE SERVICE DRIVE WILL HAVE A "SERVICE VEHICLES ONLY" SIGN PLACED AT THE HIGHWAY ROW LINE. SIGN SHALL BE 18"X 24" AS PRESCRIBED IN THE "STANDARD HIGHWAY SIGNS BOOK", A SUPPLEMENTAL PUBLICATION TO MUTCD.

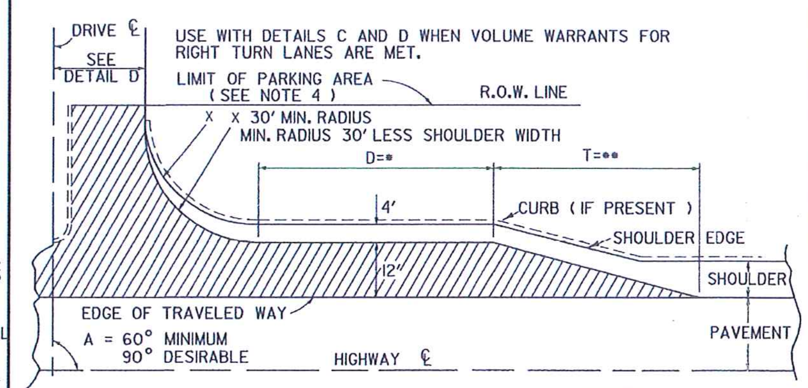
NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. IF CURB IS PRESENT, SEE APPROPRIATE CURB DETAIL STANDARD OR MATCH TOWN/CITY STANDARD CURB TREATMENT.
6. 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.
7. 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.
8. 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.
9. 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)
10. 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.

DETAIL D TWO-WAY COMMERCIAL DRIVE WITH DIVISIONAL ISLAND FOR SHOPPING CENTERS, LARGE HOUSING DEVELOPMENTS, INDUSTRIAL PLANTS AND SERVICE STATIONS



DETAIL E RIGHT TURN LANE FOR COMMERCIAL DRIVE (UNSIGNALIZED INTERSECTIONS ONLY)

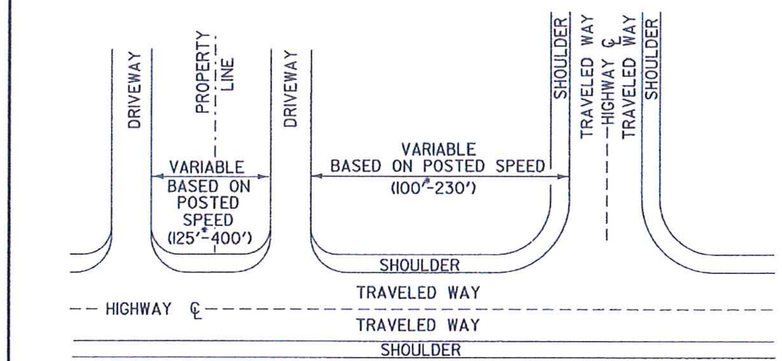


• STORAGE LENGTH IS VARIABLE DEPENDING ON TRAFFIC VOLUME AND MUST BE ADJUSTED TO PROVIDE PROPER DECELERATION LENGTH. REFER TO VAOT STANDARD E-192

TAPERS

SPEED (MPH)	30	35	40	50
••LENGTH (MIN)(FT)(T)	100	120	140	180
RATE	8:1	10:1	12:1	15:1

DETAIL F MINIMUM HORIZONTAL SEPARATION BETWEEN DRIVEWAYS AND INTERSECTING SIDEROADS



• MINIMUM UNLESS NO OTHER REASONABLE ACCESS IS AVAILABLE AND PRIOR APPROVAL IS GRANTED BY THE VAOT ITEMS SUCH AS TRAFFIC SIGNALS, HIGH TRAFFIC VOLUMES, OR FUNCTIONAL CLASS OF HIGHWAY SHOULD BE CONSIDERED WHEN DETERMINING APPROPRIATE SEPARATION DISTANCE. WHEN CURRENT RECOMMENDED SEPARATION DISTANCE CANNOT BE OBTAINED RESTRICTION OF TURNING MOVEMENTS MAY BE REQUIRED.

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

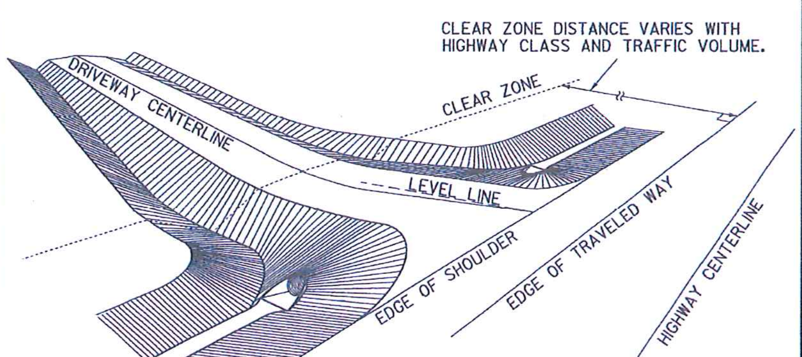
THE ABOVE VALUES ARE TAKEN FROM THE 2004 AASHTO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS & STREETS."

NOTE : ADVANCE WARNING SIGNS WILL BE REQUIRED IF OBTAINABLE INTERSECTION SIGHT DISTANCES ARE BELOW MINIMUM STOPPING SIGHT DISTANCES.

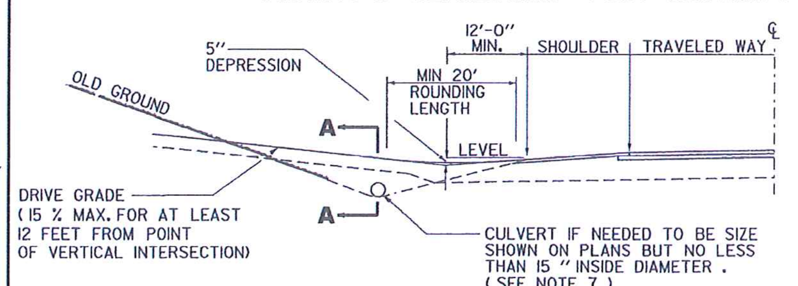
THE CHART IS ENTERED TO SELECT DESIGN VALUES BASED ON THE POSTED SPEED LIMIT IN MPH. VALUES FOR DESIGN ARE CALCULATED BASED ON THE DESIGN SPEED IN MPH.

• ASSUMES A GAP OF 7.5 SECONDS IN THE TRAFFIC STREAM ON THE HIGHWAY MAINLINE BASED ON THE HIGHWAY DESIGN SPEED IN MPH. THIS ALLOWS A STOPPED PASSENGER VEHICLE TO ENTER THE MAINLINE FROM THE DRIVE WITHOUT UNDULY INTERFERING WITH THE HIGHWAY OPERATIONS.

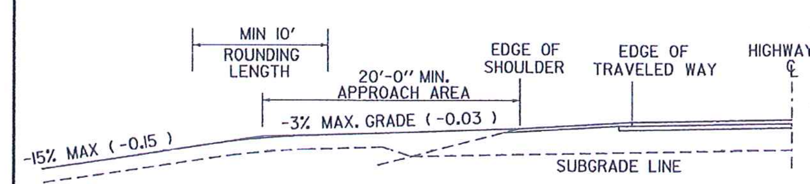
DETAIL G PERSPECTIVE SKETCH OF DRIVE INTERSECTION SHOWING DEPRESSION



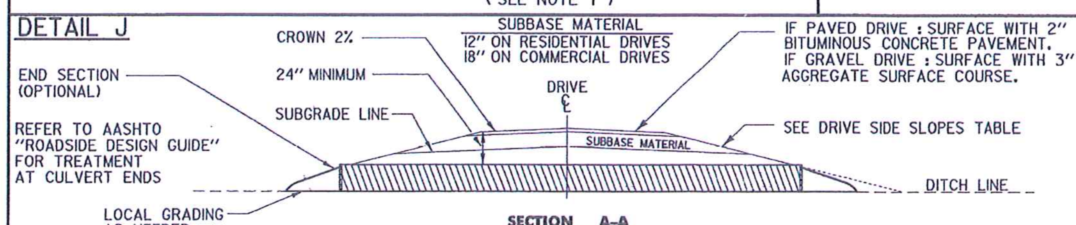
DETAIL H PROFILE OF DRIVE INTERSECTION SHOWING 5" DEPRESSION (CUT SECTION)



DETAIL I PROFILE OF DRIVE INTERSECTION (FILL SECTION)



DETAIL J



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

DIRECTOR OF PROGRAM DEVELOPMENT

CHIEF OF UTILITIES AND PERMITS

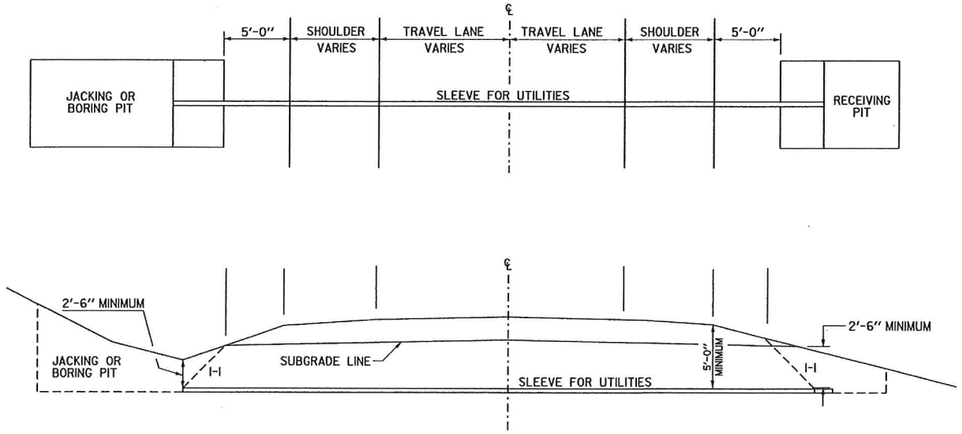
FEDERAL HIGHWAY ADMINISTRATION

STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES

VERMONT AGENCY OF TRANSPORTATION

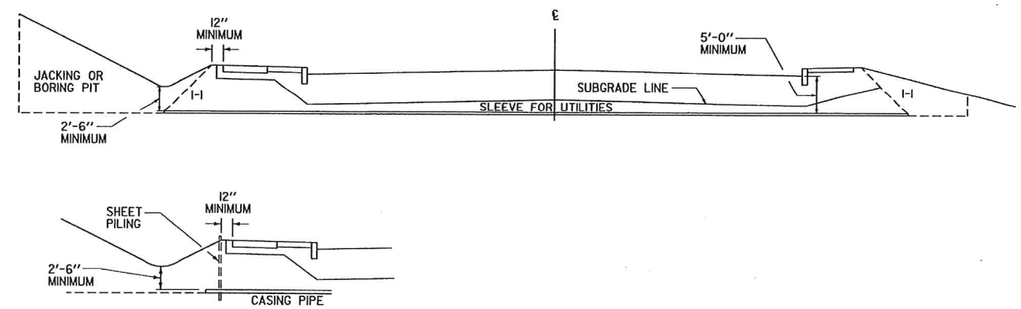
STANDARD B-71

DETAIL "A"
JACKING, BORING, AND DIRECTIONAL BORE - UNCURBED TYPICAL



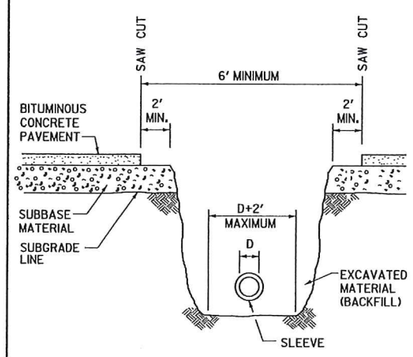
OPEN CUT AND PAVEMENT REPLACEMENT
APPLICABLE ONLY WHEN SPECIFICALLY AUTHORIZED BY HIGHWAY PERMIT

DETAIL "B"
JACKING, BORING, AND DIRECTIONAL BORE - CURBED TYPICAL



OPTION USING SHEET PILING

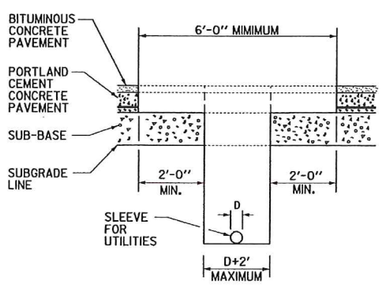
DETAIL "C"
OPEN CUT EXCAVATION ACROSS BITUMINOUS CONCRETE PAVEMENT



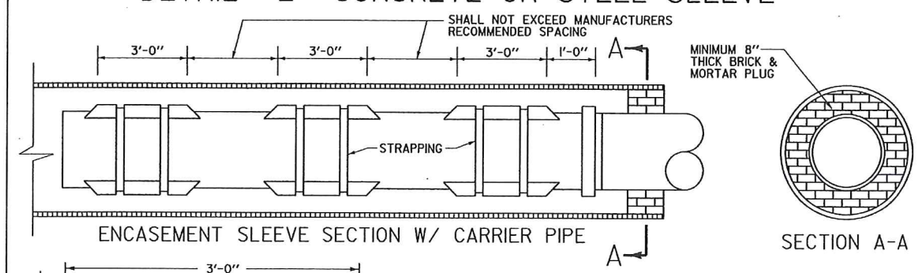
DETAIL "D"
OPEN CUT W/ PORTLAND CEMENT CONC. PAVEMENT

IN THE EVENT THAT AN ADJACENT TRANSVERSE JOINT IS LESS THAN FOUR FEET FROM THE CUT, THE PAVEMENT SHALL BE REMOVED TO THAT JOINT.

DRILL & GROUT 4' LONG #5 BARS INTO 2' DEEP HOLES DRILLED EVERY 18" ALONG BOTH SIDES OF SAWN CONCRETE. TIE TOGETHER WITH #5 BARS.

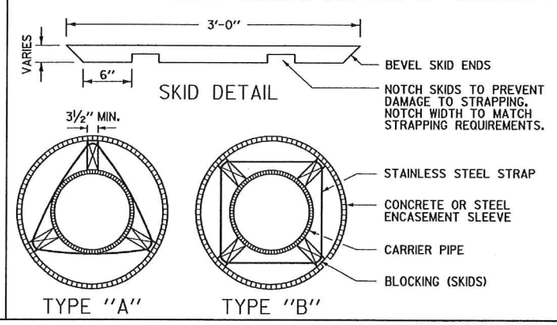


DETAIL "E" CONCRETE OR STEEL SLEEVE



ENCASEMENT SLEEVE SECTION W/ CARRIER PIPE

SECTION A-A



SKID DETAIL

TYPE "A" TYPE "B"

1. SKIDS SHALL BE HARDWOOD, NEOPRENE, NYLON, PLASTIC, OR OTHER MATERIAL OF HIGH ABRASION RESISTANCE AND A LOW FRICTION COEFFICIENT APPROVED BY THE ENGINEER.
2. METAL STRAPS AND CLIPS HOLDING BLOCKING TO THE CARRIER PIPE SHALL BE STAINLESS STEEL WITH A MINIMUM CROSS SECTION OF 0.014 SQ. INCHES. STRAP SPACING SHALL BE A MINIMUM OF TWO (2) BANDS PER SKID LENGTH.
3. CARRIER PIPE SHALL BE PUSHED OR PULLED THROUGH THE SLEEVE SO THAT JOINTS ARE ALWAYS BEING COMPRESSED.
4. CARRIER PIPE SHALL BE WRAPPED WITH ASPHALT TREATED FELT AT THE MASONRY PLUGS.
5. THE MASONRY PLUG SHALL BE WATERTIGHT.

GENERAL NOTES

1. SHEET PILING MAY BE DRIVEN VERTICALLY FIVE (5) FEET OUTSIDE THE SHOULDER POINT, OR ONE (1) FOOT BACK OF THE SIDEWALK, TO ALLOW FOR A SHORTER SLEEVE.
2. SEE DETAIL 'A' OR 'B' FOR DETERMINING SLEEVE LENGTH.
3. IN THE EVENT THAT PERMISSION IS GRANTED TO CUT AN EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ALL CUTS SHALL BE MADE WITH A SAW TO FULL DEPTH.
4. PORTLAND CEMENT CONCRETE PATCHES SHALL BE PROPERLY CURED FOR SEVEN (7) DAYS BEFORE BEING SUBJECTED TO TRAFFIC LOADS. WHEN HIGH EARLY STRENGTH CEMENT IS USED, PROPER CURING FOR THREE (3) DAYS SHALL BE REQUIRED BEFORE BEING SUBJECTED TO TRAFFIC LOADS. WHEN A HIGH STRENGTH, QUICK SETTING CONCRETE PATCHING COMPOUND IS APPROVED, IT SHALL BE PROPERLY CURED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS BEFORE BEING SUBJECTED TO TRAFFIC LOADS.
5. ALL EXPOSED BITUMINOUS SURFACES SHALL BE COATED WITH EMULSIFIED ASPHALT PRIOR TO PLACEMENT OF NEW BITUMUNOUS PAVEMENT.
6. BITUMINOUS CONCRETE PAVEMENTS SHALL BE REPLACED WITH BITUMINOUS CONCRETE PAVEMENT AT THE SAME THICKNESS OF THE PAVEMENT BEING REMOVED, AND IN ACCORDANCE WITH THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 406. PORTLAND CEMENT CONCRETE PAVEMENT AND SUBBASE ARE TO BE REPLACED IN KIND. MATERIAL BELOW SUBGRADE TO BE REPLACED WITH EXCAVATED MATERIAL, OR AS DIRECTED BY THE ENGINEER. ALL BACKFILL MATERIAL SHALL BE MADE IN SIX (6) INCH MAXIMUM LIFTS AND COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY.
7. THE DIAMETER OF THE ENCASEMENT SLEEVE SHALL BE EQUAL TO THE DIAMETER OF THE CARRIER PIPE PLUS TWELVE (12) INCHES. (SEE VAOT SPECIFICATIONS, SECTION 625, FOR EXCEPTIONS.)

REVISIONS AND CORRECTIONS

DEC. 23, 1974 - ORIGINAL APPROVAL
SEPT. 9, 1975 - CARRIER PIPE AND PORTLAND CEMENT NOTES REVISED
OCT. 30, 1985 - REVISED TO CONFORM WITH 1986 SPECIFICATIONS
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.
MAR. 10, 1995 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.
MARCH 3, 2003 - REVISED TO REFLECT CURRENT DESIGN CRITERIA

APPROVED

DIRECTOR OF PROGRAM DEVELOPMENT

CHIEF OF UTILITIES

FEDERAL HIGHWAY ADMINISTRATION

HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES

VERMONT AGENCY OF TRANSPORTATION

STANDARD
D-20