

Town of Washington Inland Wetlands Commission

PERMIT APPLICATION

Applicant's Name: SMF UNIVERSAL, LLC Date: 2-2-22

Activity Address: 124 NEW MILFORD TURNPIKE

APPLICATION FOR:

Regulated activity: NO WETLANDS ON PROPERTY - ACTIVITY IN UPLAND REVIEW AREA ONLY.

Subdivision feasibility: # of lots _____

Correction of a violation: _____
Permits to correct violations will expire at the end of time the period specified by Commission for remedial action.

Exemption: see separate form - *Application for an Exemption*

Other -specify: _____

FOR OFFICE USE ONLY

Date Submitted: 2-9-2022 Received By: swhite Scanned

Application #: IW-22-05 IWC Date of Receipt: 2-23-22

Fee Paid: 120 Cash Check# 11888 Check date: 2-9-22 By: Artel Engineering

Date (14 Days from Receipt) 3-9-22 65 Days from Receipt: 4-29-2022

Public Hearing Date: _____ Continued to: _____

Extension Request Date: _____ Date Extension Ends: _____

ACTION TAKEN:

Application Withdrawn Date: _____ Comment: _____

Denied Without Prejudice Denied Date: _____ Reason: _____

IWC Approval Date: _____ Agent Approval _____ Date: _____

Please complete the entire form as applicable. Attach supporting documentation. The applicant is responsible for providing all pertinent information and may be required to supply additional information and/or pay for expert consultation, beyond what is outlined on this form. To save time and avoid rejection of an application, read and use the ***Inland Wetland and Watercourses Regulations***, Town of Washington and the ***Applicant's Guide to Completing and Processing an Application for an Inland Wetlands Permit*** before applying.

Applications must be complete* and submitted to the Land Use Office no later than 7 calendar days before the next regular scheduled meeting to allow sufficient time for administrative, public, and commissioner review. The application will be considered at the next regularly scheduled meeting. **Complete** applications submitted to the Land Use Office later than the specified deadline for that meeting, may be added to the agenda at the discretion of the Commission. Consideration of late applications will await preliminary review by the administrative staff as time permits. The schedule of meetings and times is posted at the Town Hall and at www.WashingtonCt.org.

*To be considered "complete," the application must include:

- Yellow Mandatory Land Use Pre-Application Form signed by the property owner and if applicable, a letter from conservation easement holder
- All required forms, attachments and authorizations;
- Live (ink) signature(s) of the property owner(s);
- The Statewide Inland Wetlands and Watercourses Activity Reporting Form (Section II completed);
- A check, payable to the Town of Washington, for the **Application Fee** of \$60.00, **plus any other applicable fees from the posted Fee Schedule**, plus the required **State Tax** of \$60.00; **Total fee: \$120.00.**

ALL PLANS AND DRAWINGS MUST BE FOLDED TO FIT IN LEGAL SIZE FOLDER – UNFOLDED PLANS WILL NOT BE ACCEPTED

Town of Washington Inland Wetlands Commission

SECTION I: CONTACT INFORMATION

- 1) Name of Owner: SMF UNIVERSAL, LLC
- 2) Mailing Address: 98 BENSON ROAD
City: BRIDGEWATER State: CT Zip: 06752
- 3) Telephone Home: () _____ Cell: 917 579 6661
- 4) Email: stevenbox@gmail.com
- 5) Authorized Agent (attach **mandatory** written authorization): SEE ATTACHED
- 6) Agent Address: 304 FEDERAL ROAD, SUITE 308
- 7) Agent's Home Telephone: () N/A Business: (203) 740-2033
- 8) Agent's Email: EMERRITHEW@ARTELENGINEERING.COM
- 9) Name, Address, Title and Phone Number of any Professional(s) or Contractor(s) to be involved in the project:
N/A
- 10) All correspondence, notices, permits shall be sent to: Property Owner Agent

SECTION II: PROPERTY INFORMATION

- 1) Address of Property: 124 NEW MILFORD TURNPIKE
- 2) Assessor's Map, Lot Number(s): 11-03-57
- 3) Total Acreage: .274 AC
- 4) Located in a Historic District? Yes No
- 5) Applicant's Interest in Property (circle one): Owner Developer Option Holder
Other (describe): _____

SECTION III: PROJECT/ACTIVITY INFORMATION

- 1) Project/Activity Name (e.g. pond dredging, etc.): PROPOSED PARKING CONSTRUCTION IN UPLAND REVIEW AREA.
- 2) If the activity involves the installation or repair of a septic system(s):
Has the Health Official approved the plan? Yes No
- 3) Total Wetland Acres: 0 Disturbed Wetland Acres: 0
- 4) Total Review Acres*: .076 AC Disturbed Review Acres: .012 AC
- * The review area is all land within 100 feet of all wetlands soils and watercourses/water bodies. Activities beyond the 100-foot review area, which have the potential to adversely affect wetlands and watercourses, are also subject to wetlands jurisdiction and permitting requirements.
- 5) Linear Feet of Watercourse: 0 Linear Feet of Watercourse disturbed: 0
- 6) Square feet of proposed impervious surfaces (roads, buildings, parking, etc.): 7295.26 SQ FT
- 7) Does this project/activity comply with all applicable zoning regulations? Yes No

Town of Washington Inland Wetlands Commission

SECTION IV: PROJECT NARRATIVE

Attach separate sheet(s) if necessary

- 1) Proposed Activity (detailed description): PROPOSED REVISIONS TO
EXISTING SITE - NEW PARKING LAYOUT AND
BUILDING ACCESS CONSTRUCTION -
NO WETLANDS ON PROPERTY.
- 2) The proposed activity will involve the following within wetlands, a watercourse, and/or a review area:
Check all that apply:
 Alteration Construction Pollution Deposition of Materials
 Removal of Materials Bridge or Culvert Discharge To Discharge From
 Other (describe) _____
- 2) Amount, type, and location of materials to be removed, deposited or stockpiled: APPROXIMATELY 10 YARDS OF CLEAN FILL AND ASPHALT.
- 3) Description of proposed project, construction work sequence, machinery to be used, & duration of activities: REMOVE EXISTING PARKING SURFACE;
CONSTRUCT NEW PARKING LOT - ASPHALT -
AND BUILDING ACCESS.
- 4) Describe alternatives considered and why the proposal described herein was chosen: LOT SIZE & SHAPE LIMITED OPTIONS.
THIS PROPOSAL ALLOWS FOR ADDITIONAL
PARKING TO BE PREPARED FOR SHARING
WITHIN BUSINESS DISTRICT.

SECTION V: ADJOINING MUNICIPALITIES & NOTICE

- 1) Check whether any of the following circumstances apply **
- A portion of the property affected by the decision of the Commission is located within five hundred (500) feet of the boundary of an adjoining municipality.
 - A portion of the sewer or water drainage from the project site will flow through and significantly impact the sewage system within the adjoining municipality.
 - Water run-off from the improved site will impact streets or other municipal or private property within the adjoining municipality.

****If any of these situations apply (are checked), the applicant is required to give written notice of his/her application to the Inland Wetlands Agency of the adjoining municipality, on the same day that he/she submits this application. Notification must be by Certified Mail with Return Receipt Requested.**

Town of Washington Inland Wetlands Commission

SECTION VI: ATTACHMENTS

Please attach the following along with any other pertinent information:

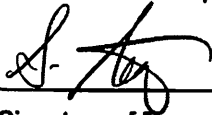
- 1) An 8.5" x 11" photocopy of the pertinent section of the USGS topographic quadrangle with the property outlined or pinpointed. *Note: USGS Topographic Quadrangle Map is available in the Land Use Office.*
- 2) Scale drawings of the project and property that show the project in detail. They should include the following:
 - a. Title block with project name, owner, date, total acres, address, and map drafter.
 - b. North arrow
 - c. Scale bar
 - d. Legend
 - e. Property lines
 - f. Wetland boundaries
 - g. Watercourses with direction of flow, water depth, & bottom characteristics (if applicable)
 - h. Edge of review area/100' setback.
 - i. Topographic contour lines
 - j. Dimensions and exact locations of proposed activities including material and soil stockpiles, erosion and sedimentation controls, ingress and egress patterns
 - k. Existing and proposed vegetation, including limit of disturbance line.
- 3) If a Soil Scientist is involved, his/her name, written report, and field sketch.
- 4) The Commission may, at its discretion, require an A-2 Survey showing wetland boundaries that have been flagged by a Certified Soil Scientist (CSS) and surveyed and plotted by a Licensed Surveyor.

SECTION VII: CONSENT AND SIGNATURE(S)

The undersigned, as owner(s) of the property, hereby consents to necessary and proper inspections of the above mentioned property by Commissioners and agents of the Inland Wetlands Commission, Town of Washington, at reasonable times, both before and after a final decision has been issued by the Commission. The undersigned hereby certifies that the information provided in this application, including its supporting documentation, is true and he/she is aware of the penalties provided in Section 22a-376 of the Connecticut General Statutes for knowingly providing false or misleading information.

SMF Universal LLC

Print Name of Property Owner

 (Steve Shabet - Managing Member)

Signature of Property Owner (live ink)

02/02/2022

Date

Print Name of Property Owner

Signature of Property Owner (live ink)

Date

IN ORDER TO EXPEDITE THE PERMITTING PROCESS IT IS NECESSARY TO FILL OUT ALL SECTIONS OF THIS APPLICATION COMPLETELY.

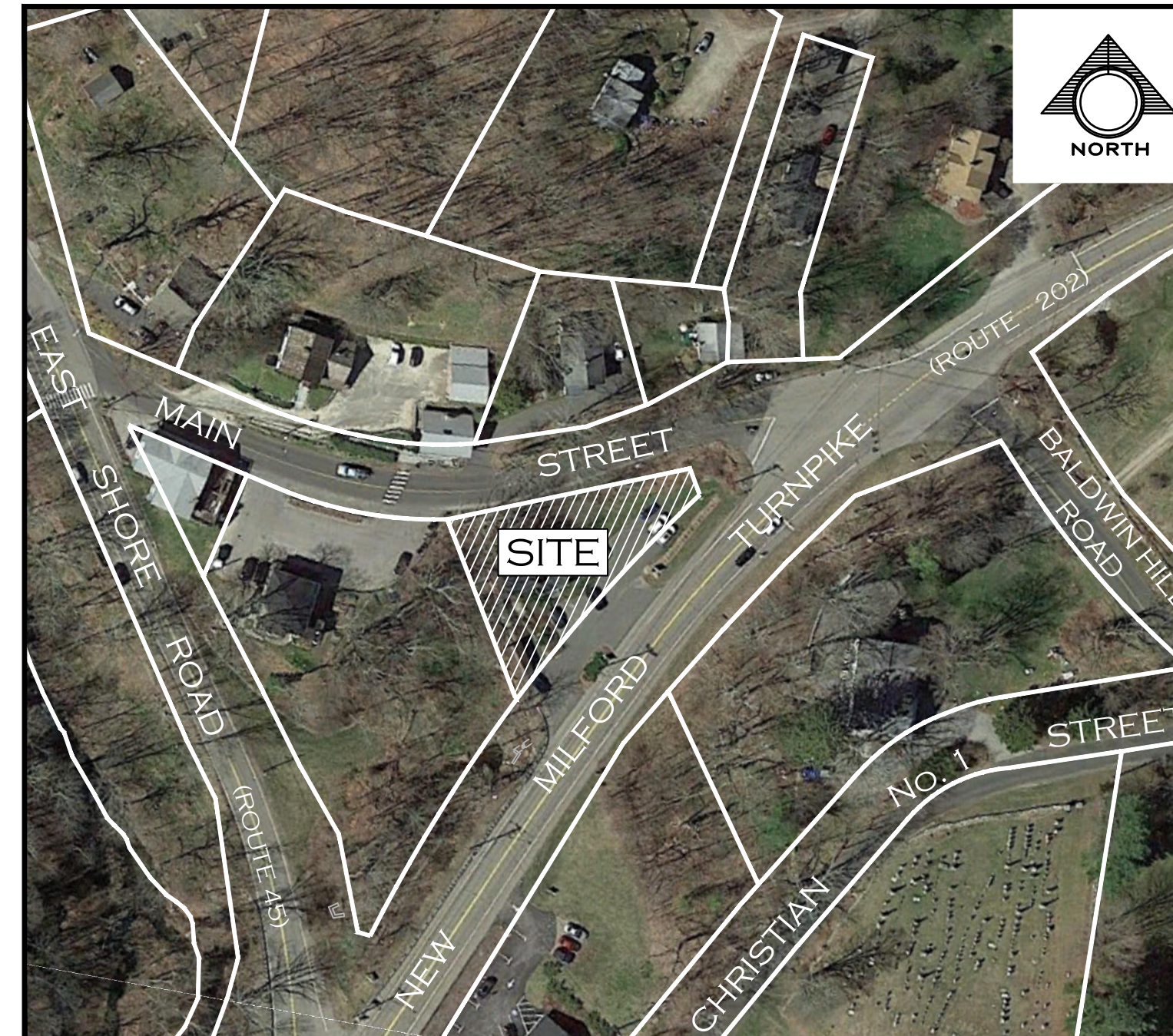
*****INCOMPLETE APPLICATIONS CANNOT BE PROCESSED*****

*****ALL PLANS AND DRAWINGS MUST BE FOLDED TO FIT IN LEGAL SIZE FOLDER – UNFOLDED PLANS WILL NOT BE ACCEPTED*****

SMF UNIVERSAL, LLC

124 NEW MILFORD TURNPIKE

WASHINGTON, CONNECTICUT



LOCATION MAP
SCALE: 1" = 100'

INDEX OF SHEETS

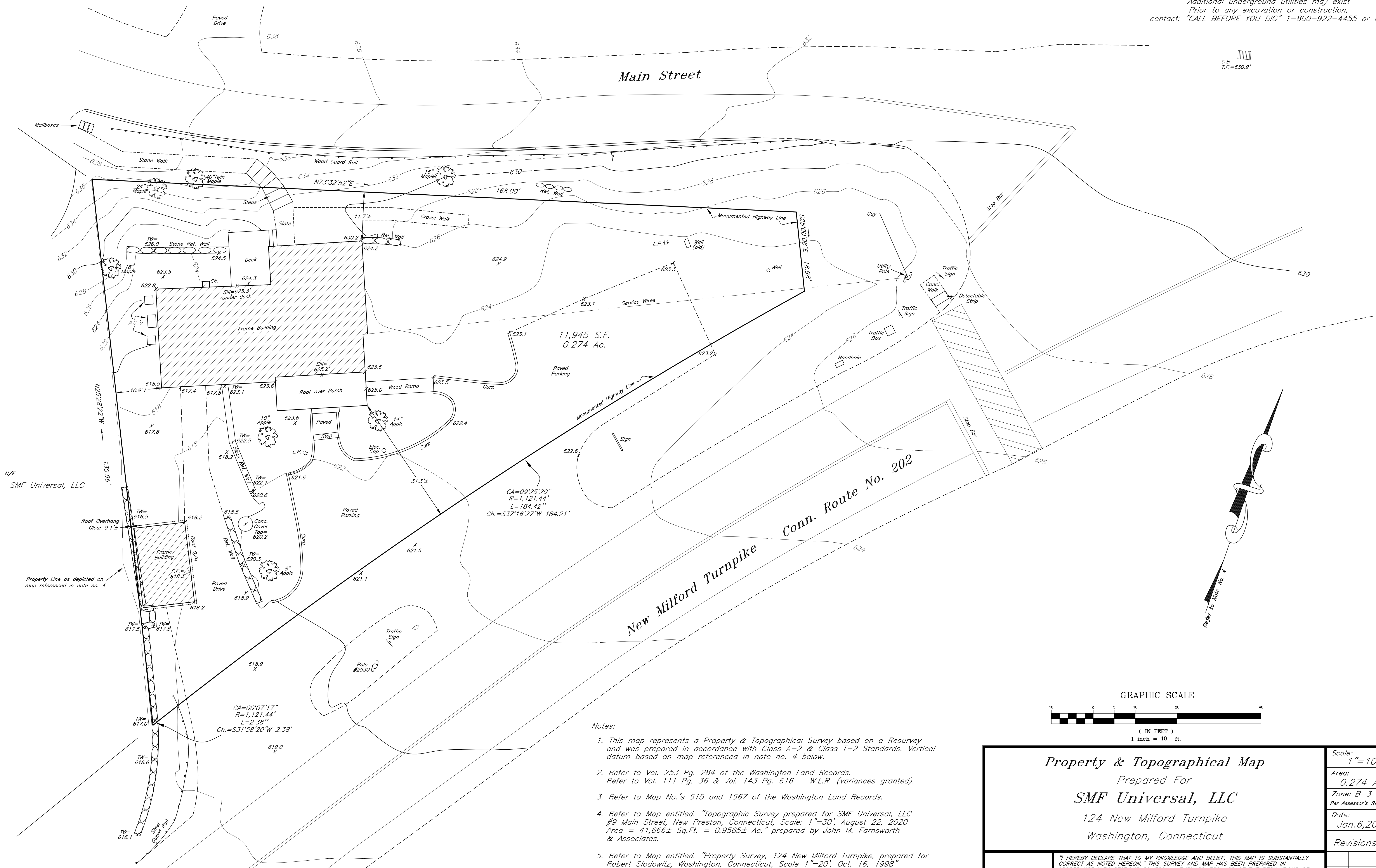
DESCRIPTION OF SHEETS

- 1..... COVER SHEET
- 2..... PROPERTY & TOPOGRAPHICAL MAP
(PREPARED BY NEW ENGLAND LAND SURVEYING)
- 3..... SITE PLAN
- 4..... GRADING, UTILITY, AND SEDIMENT AND EROSION CONTROL PLAN
- 5..... PLANTING PLAN
- 6..... SEDIMENT AND EROSION CONTROL NOTES
- 7..... DETAILS

			<p>ARTEL ENGINEERING GROUP, LLC 304 FEDERAL ROAD - SUITE 308 BROOKFIELD, CONNECTICUT 06804 WWW.ARTELENGINEERING.COM PHONE: (203) 740-2033 FAX: (203) 740-2067</p> <p>• CIVIL ENGINEERS PROJECT MANAGERS • • ENVIRONMENTAL ENGINEERS SITE PLANNERS • • MUNICIPAL ENGINEERS PERMIT EXPEDITORS •</p>								
		<p>COVER SHEET</p> <p>SMF UNIVERSAL, LLC 124 NEW MILFORD TURNPIKE WASHINGTON, CONNECTICUT</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY: BH</td> <td style="width: 50%;">CHECKED BY: DV</td> </tr> <tr> <td>DATE: 1/13/22</td> <td>SCALE: AS NOTED</td> </tr> <tr> <td>DRAWING No: DD21050</td> <td>PROJECT No: DD21050</td> </tr> <tr> <td>SHEET: 1</td> <td></td> </tr> </table>	DRAWN BY: BH	CHECKED BY: DV	DATE: 1/13/22	SCALE: AS NOTED	DRAWING No: DD21050	PROJECT No: DD21050	SHEET: 1	
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DATE: 1/13/22	SCALE: AS NOTED										
DRAWING No: DD21050	PROJECT No: DD21050										
SHEET: 1											

Important Note:
 Additional underground utilities may exist
 Prior to any excavation or construction,
 contact: "CALL BEFORE YOU DIG" 1-800-922-4455 or 811

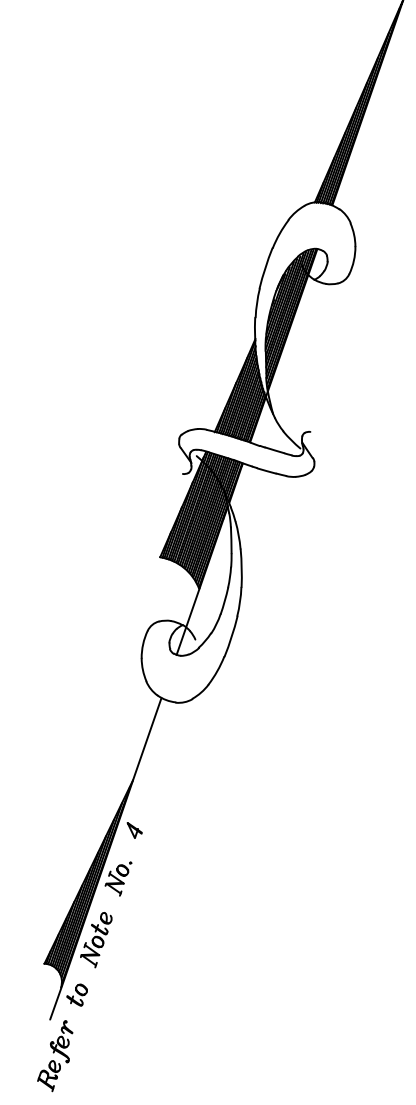
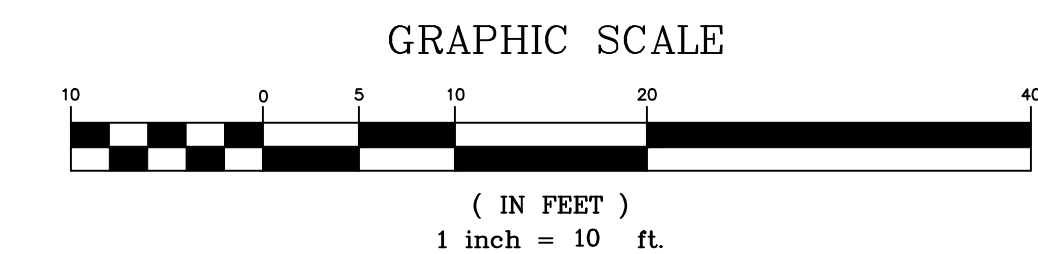
C.B.
 T.F.=630.9'



N/F
 SMF Universal, LLC

Property Line as depicted on
 map referenced in note no. 4

- Notes:
1. This map represents a Property & Topographical Survey based on a Resurvey and was prepared in accordance with Class A-2 & Class T-2 Standards. Vertical datum based on map referenced in note no. 4 below.
 2. Refer to Vol. 253 Pg. 284 of the Washington Land Records. Refer to Vol. 111 Pg. 36 & Vol. 143 Pg. 616 - W.L.R. (variances granted).
 3. Refer to Map No.'s 515 and 1567 of the Washington Land Records.
 4. Refer to Map entitled: "Topographic Survey prepared for SMF Universal, LLC #9 Main Street, New Preston, Connecticut, Scale: 1"=30', August 22, 2020 Area = 41,666± Sq.Ft. = 0.9565± Ac." prepared by John M. Farnsworth & Associates.
 5. Refer to Map entitled: "Property Survey, 124 New Milford Turnpike, prepared for Robert Slodowitz, Washington, Connecticut, Scale 1"=20', Oct. 16, 1998" prepared by Richard W. Dibble, LLS #8158.
 6. Refer to Connecticut State Highway Department Right of Way Map, Town of Washington, New Milford - Litchfield Road from the New Milford Town Line Easterly to Flirtation Ave., Route No. 25, Scale: 1"=40', Dated Dec. 28, 1934 Revised Jan. 21, 1966, Number 150-04, Sheet No. 5 of 6.

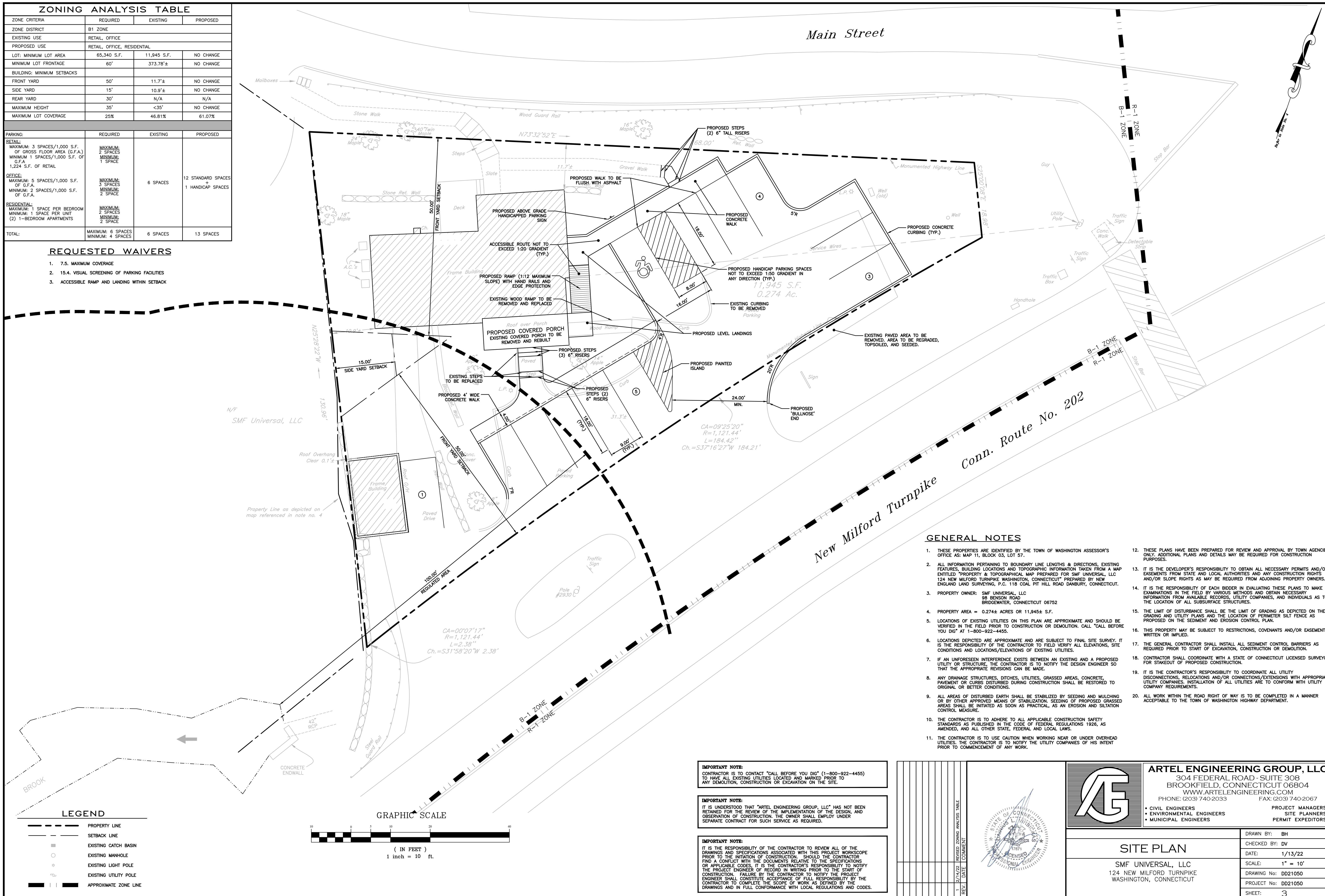


Property & Topographical Map Prepared For SMF Universal, LLC 124 New Milford Turnpike Washington, Connecticut		Scale: 1" = 10' Area: 0.274 Ac. Zone: B-3 Per Assessor's Records Date: Jan. 6, 2022 Revisions
NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL		I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. NEW ENGLAND LAND SURVEYING, P.C. ROBIN COMMONS-118 COAL PIT HILL RD.-DANBURY, CT. 203-790-5597 nelandsurv@aol.com MATTHEW E. REYNOLDS, L.S. # 13286
		Job No. 1420 1420sv1

ZONING ANALYSIS TABLE			
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED
ZONE DISTRICT	B1 ZONE		
EXISTING USE	RETAIL, OFFICE		
PROPOSED USE	RETAIL, OFFICE, RESIDENTIAL		
LOT: MINIMUM LOT AREA	65,340 S.F.	11,945 S.F.	NO CHANGE
MINIMUM LOT FRONTAGE	60'	373.78'±	NO CHANGE
BUILDING: MINIMUM SETBACKS			
FRONT YARD	50'	11.7'±	NO CHANGE
SIDE YARD	15'	10.9'±	NO CHANGE
REAR YARD	30'	N/A	N/A
MAXIMUM HEIGHT	35'	<35'	NO CHANGE
MAXIMUM LOT COVERAGE	25%	46.81%	61.07%
PARKING:			
RETAIL: MAXIMUM: 3 SPACES/1,000 S.F. OF GROSS FLOOR AREA (G.F.A.) MINIMUM: 1 SPACES/1,000 S.F. OF G.F.A. 1,224 S.F. OF RETAIL	MAXIMUM: 2 SPACES MINIMUM: 1 SPACE		
OFFICE: MAXIMUM: 5 SPACES/1,000 S.F. OF G.F.A. MINIMUM: 2 SPACES/1,000 S.F. OF G.F.A.	MAXIMUM: 3 SPACES MINIMUM: 2 SPACE	6 SPACES	12 STANDARD SPACES 1 HANDICAP SPACES
RESIDENTIAL: MAXIMUM: 1 SPACE PER BEDROOM MINIMUM: 1 SPACE PER UNIT (2) 1-BEDROOM APARTMENTS	MAXIMUM: 2 SPACES MINIMUM: 2 SPACE		
TOTAL:	MAXIMUM: 6 SPACES MINIMUM: 4 SPACES	6 SPACES	13 SPACES

REQUESTED WAIVERS

- 7.5. MAXIMUM COVERAGE
- 15.4. VISUAL SCREENING OF PARKING FACILITIES
- ACCESSIBLE RAMP AND LANDING WITHIN SETBACK



GENERAL NOTES

- THESE PROPERTIES ARE IDENTIFIED BY THE TOWN OF WASHINGTON ASSESSOR'S OFFICE AS: MAP 11, BLOCK 03, LOT 57.
- ALL INFORMATION PERTAINING TO BOUNDARY LINE LENGTHS & DIRECTIONS, EXISTING FEATURES, BUILDING LOCATIONS AND TOPOGRAPHIC INFORMATION TAKEN FROM A MAP ENTITLED "PROPERTY & TOPOGRAPHICAL MAP PREPARED FOR SMF UNIVERSAL, LLC 124 NEW MILFORD TURNPIKE WASHINGTON, CONNECTICUT PREPARED BY NEW ENGLAND LAND SURVEYING, P.C. 118 COAL PIT HILL ROAD DANBURY, CONNECTICUT.
- PROPERTY OWNER: SMF UNIVERSAL, LLC 98 BENSON ROAD BRIDGEWATER, CONNECTICUT 06752
- PROPERTY AREA = 0.274± ACRES OR 11,945± S.F.
- LOCATIONS OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION OR DEMOLITION. CALL "CALL BEFORE YOU DIG" AT 1-800-922-4455.
- LOCATIONS DEPICTED ARE APPROXIMATE AND ARE SUBJECT TO FINAL SITE SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS, SITE CONDITIONS AND LOCATIONS/ELEVATIONS OF EXISTING UTILITIES.
- IF AN UNFORSEEN INTERFERENCE EXISTS BETWEEN AN EXISTING AND A PROPOSED UTILITY OR STRUCTURE, THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER SO THAT THE APPROPRIATE REVISIONS CAN BE MADE.
- ANY DRAINAGE STRUCTURES, DITCHES, UTILITIES, GRASSED AREAS, CONCRETE, PAVEMENT OR CURBS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS.
- ALL AREAS OF DISTURBED EARTH SHALL BE STABILIZED BY SEEDING AND MULCHING OR BY OTHER APPROVED MEANS OF STABILIZATION. SEEDING OF PROPOSED GRASSED AREAS SHALL BE INITIATED AS SOON AS PRACTICAL, AS AN EROSION AND SILTATION CONTROL MEASURE.
- THE CONTRACTOR IS TO ADHERE TO ALL APPLICABLE CONSTRUCTION SAFETY STANDARDS AS PUBLISHED IN THE CODE OF FEDERAL REGULATIONS 1926, AS AMENDED, AND ALL OTHER STATE, FEDERAL AND LOCAL LAWS.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING NEAR OR UNDER OVERHEAD UTILITIES. THE CONTRACTOR IS TO NOTIFY THE UTILITY COMPANIES OF HIS INTENT PRIOR TO COMMENCEMENT OF ANY WORK.
- THESE PLANS HAVE BEEN PREPARED FOR REVIEW AND APPROVAL BY TOWN AGENCIES ONLY. ADDITIONAL PLANS AND DETAILS MAY BE REQUIRED FOR CONSTRUCTION PURPOSES.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND/OR EASEMENTS FROM STATE AND LOCAL AUTHORITIES AND ANY CONSTRUCTION RIGHTS AND/OR SLOPE RIGHTS AS MAY BE REQUIRED FROM ADJOINING PROPERTY OWNERS.
- IT IS THE RESPONSIBILITY OF EACH BIDDER IN EVALUATING THESE PLANS TO MAKE EXAMINATIONS IN THE FIELD BY VARIOUS METHODS AND OBTAIN NECESSARY INFORMATION FROM AVAILABLE RECORDS, UTILITY COMPANIES, AND INDIVIDUALS AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
- THE LIMIT OF DISTURBANCE SHALL BE THE LIMIT OF GRADING AS DEPICTED ON THE GRADING AND UTILITY PLANS AND THE LOCATION OF PERIMETER SILT FENCE AS PROPOSED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- THIS PROPERTY MAY BE SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS, WRITTEN OR IMPLIED.
- THE GENERAL CONTRACTOR SHALL INSTALL ALL SEDIMENT CONTROL BARRIERS AS REQUIRED PRIOR TO START OF EXCAVATION, CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL COORDINATE WITH A STATE OF CONNECTICUT LICENSED SURVEYOR FOR STAKEOUT OF PROPOSED CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY DISCONNECTIONS, RELOCATIONS AND/OR CONNECTIONS/EXTENSIONS WITH APPROPRIATE UTILITY COMPANIES. INSTALLATION OF ALL UTILITIES ARE TO CONFORM WITH UTILITY COMPANY REQUIREMENTS.
- ALL WORK WITHIN THE ROAD RIGHT OF WAY IS TO BE COMPLETED IN A MANNER ACCEPTABLE TO THE TOWN OF WASHINGTON HIGHWAY DEPARTMENT.

IMPORTANT NOTE:
CONTRACTOR IS TO CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) TO HAVE ALL EXISTING UTILITIES LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

IMPORTANT NOTE:
IT IS UNDERSTOOD THAT "ARTEL ENGINEERING GROUP, LLC" HAS NOT BEEN RETAINED FOR THE REVIEW OF THE IMPLEMENTATION OF THE DESIGN, AND OBSERVATION OF CONSTRUCTION. THE OWNER SHALL EMPLOY UNDER SEPARATE CONTRACT FOR SUCH SERVICE AS REQUIRED.

IMPORTANT NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

REV.	DATE	COMMENT
1	2/11/22	REVISED ZONING ANALYSIS TABLE
1		DATE COMMENT

ARTEL ENGINEERING GROUP, LLC
304 FEDERAL ROAD - SUITE 308
BROOKFIELD, CONNECTICUT 06804
WWW.ARTELENGINEERING.COM
PHONE: (203) 740-2033 FAX: (203) 740-2067

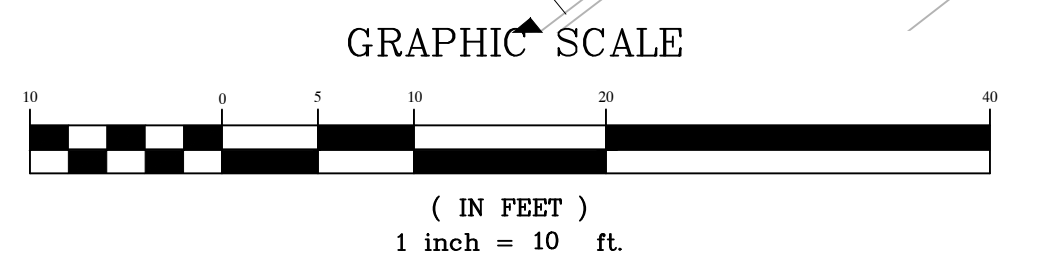
• CIVIL ENGINEERS
• ENVIRONMENTAL ENGINEERS
• MUNICIPAL ENGINEERS

PROJECT MANAGERS •
SITE PLANNERS •
PERMIT EXPEDITORS •

DRAWN BY: BH
CHECKED BY: DV
DATE: 1/13/22
SCALE: 1" = 10'
DRAWING No: DD21050
PROJECT No: DD21050
SHEET: 3

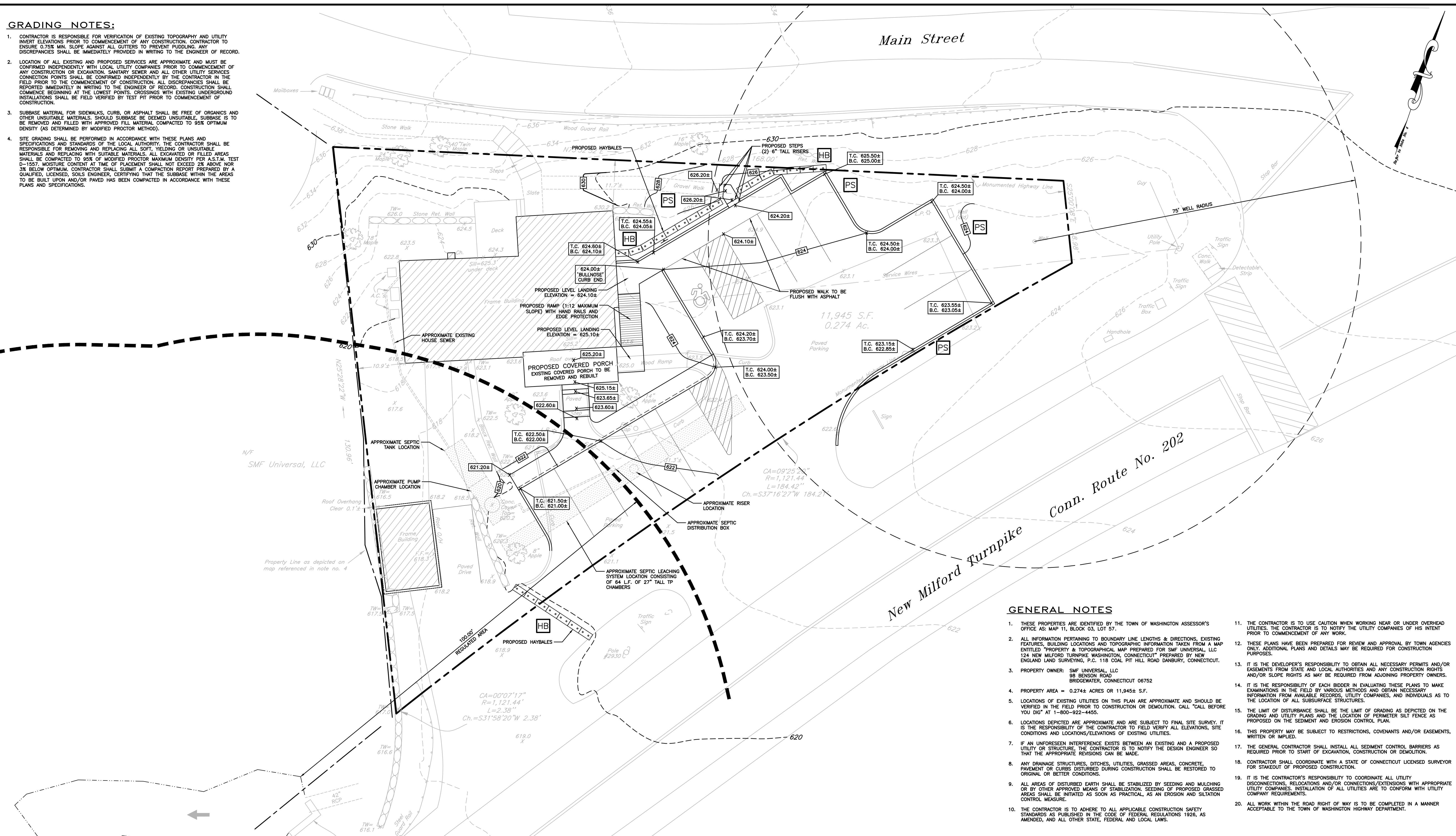
LEGEND

	PROPERTY LINE
	SETBACK LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	APPROXIMATE ZONE LINE



GRADING NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHY AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL GUTTERS TO PREVENT FLOODING. ANY DISCREPANCIES SHALL BE IMMEDIATELY PROVIDED IN WRITING TO THE ENGINEER OF RECORD.
- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICES CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER OF RECORD. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST POINTS. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND STANDARDS OF THE LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED, LICENSED, SOILS ENGINEER, CERTIFYING THAT THE SUBBASE WITHIN THE AREAS TO BE BUILT UPON AND/OR PAVED HAS BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.



GENERAL NOTES

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- ANY DRAINAGE STRUCTURES, DITCHES, UTILITIES, GRASSED AREAS, CONCRETE, PAVEMENT OR CURBS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS.
- ALL AREAS OF DISTURBED EARTH SHALL BE STABILIZED BY SEEDING AND MULCHING OR BY OTHER APPROVED MEANS OF STABILIZATION. SEEDING OF PROPOSED GRASSED AREAS SHALL BE INITIATED AS SOON AS PRACTICAL, AS AN EROSION AND SILTATION CONTROL MEASURE.
- THE CONTRACTOR IS TO ADHERE TO ALL APPLICABLE CONSTRUCTION SAFETY STANDARDS AS PUBLISHED IN THE CODE OF FEDERAL REGULATIONS 1926, AS AMENDED, AND ALL OTHER STATE, FEDERAL AND LOCAL LAWS.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING NEAR OR UNDER OVERHEAD UTILITIES. THE CONTRACTOR IS TO NOTIFY THE UTILITY COMPANIES OF HIS INTENT PRIOR TO COMMENCEMENT OF ANY WORK.
- THESE PLANS HAVE BEEN PREPARED FOR REVIEW AND APPROVAL BY TOWN AGENCIES ONLY. ADDITIONAL PLANS AND DETAILS MAY BE REQUIRED FOR CONSTRUCTION PURPOSES.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND/OR EASEMENTS FROM STATE AND LOCAL AUTHORITIES AND ANY CONSTRUCTION RIGHTS AND/OR SLOPE RIGHTS AS MAY BE REQUIRED FROM ADJOINING PROPERTY OWNERS.
- IT IS THE RESPONSIBILITY OF EACH BIDDER IN EVALUATING THESE PLANS TO MAKE EXAMINATIONS IN THE FIELD BY VARIOUS METHODS AND OBTAIN NECESSARY INFORMATION FROM AVAILABLE RECORDS, UTILITY COMPANIES, AND INDIVIDUALS AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
- THE LIMIT OF DISTURBANCE SHALL BE THE LIMIT OF GRADING AS DEPICTED ON THE GRADING AND UTILITY PLANS AND THE LOCATION OF PERIMETER SILT FENCE AS PROPOSED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- THIS PROPERTY MAY BE SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS, WRITTEN OR IMPLIED.
- THE GENERAL CONTRACTOR SHALL INSTALL ALL SEDIMENT CONTROL BARRIERS AS REQUIRED PRIOR TO START OF EXCAVATION, CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL COORDINATE WITH A STATE OF CONNECTICUT LICENSED SURVEYOR FOR STAKEOUT OF PROPOSED CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY DISCONNECTIONS, RELOCATIONS AND/OR CONNECTIONS/EXTENSIONS WITH APPROPRIATE UTILITY COMPANIES. INSTALLATION OF ALL UTILITIES ARE TO CONFORM WITH UTILITY COMPANY REQUIREMENTS.
- ALL WORK WITHIN THE ROAD RIGHT OF WAY IS TO BE COMPLETED IN A MANNER ACCEPTABLE TO THE TOWN OF WASHINGTON HIGHWAY DEPARTMENT.

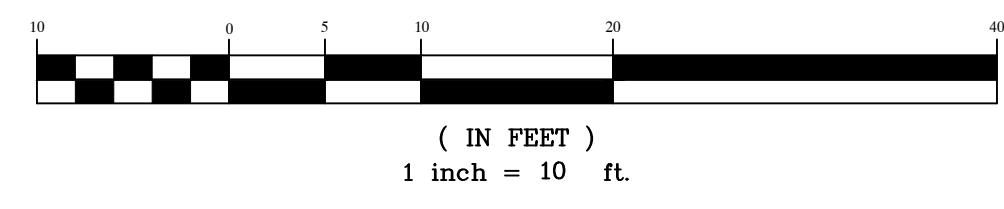
LEGEND

- PROPERTY LINE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION

EROSION CONTROL LEGEND

- PROPOSED HAYBALES
- PROPOSED AREA OF PERMANENT SEEDING

GRAPHIC SCALE



IMPORTANT NOTE:
CONTRACTOR IS TO CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) TO HAVE ALL EXISTING UTILITIES LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

IMPORTANT NOTE:
IT IS UNDERSTOOD THAT "ARTEL ENGINEERING GROUP, LLC" HAS NOT BEEN RETAINED FOR THE REVIEW OF THE IMPLEMENTATION OF THE DESIGN, AND OBSERVATION OF CONSTRUCTION. THE OWNER SHALL EMPLOY UNDER SEPARATE CONTRACT FOR SUCH SERVICE AS REQUIRED.

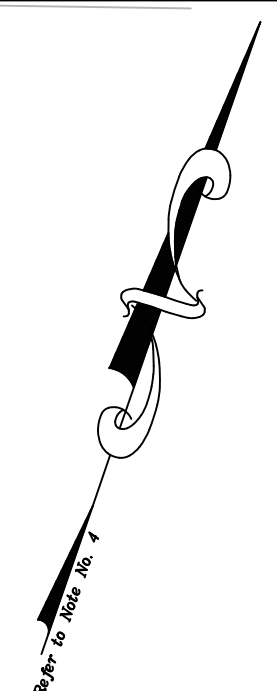
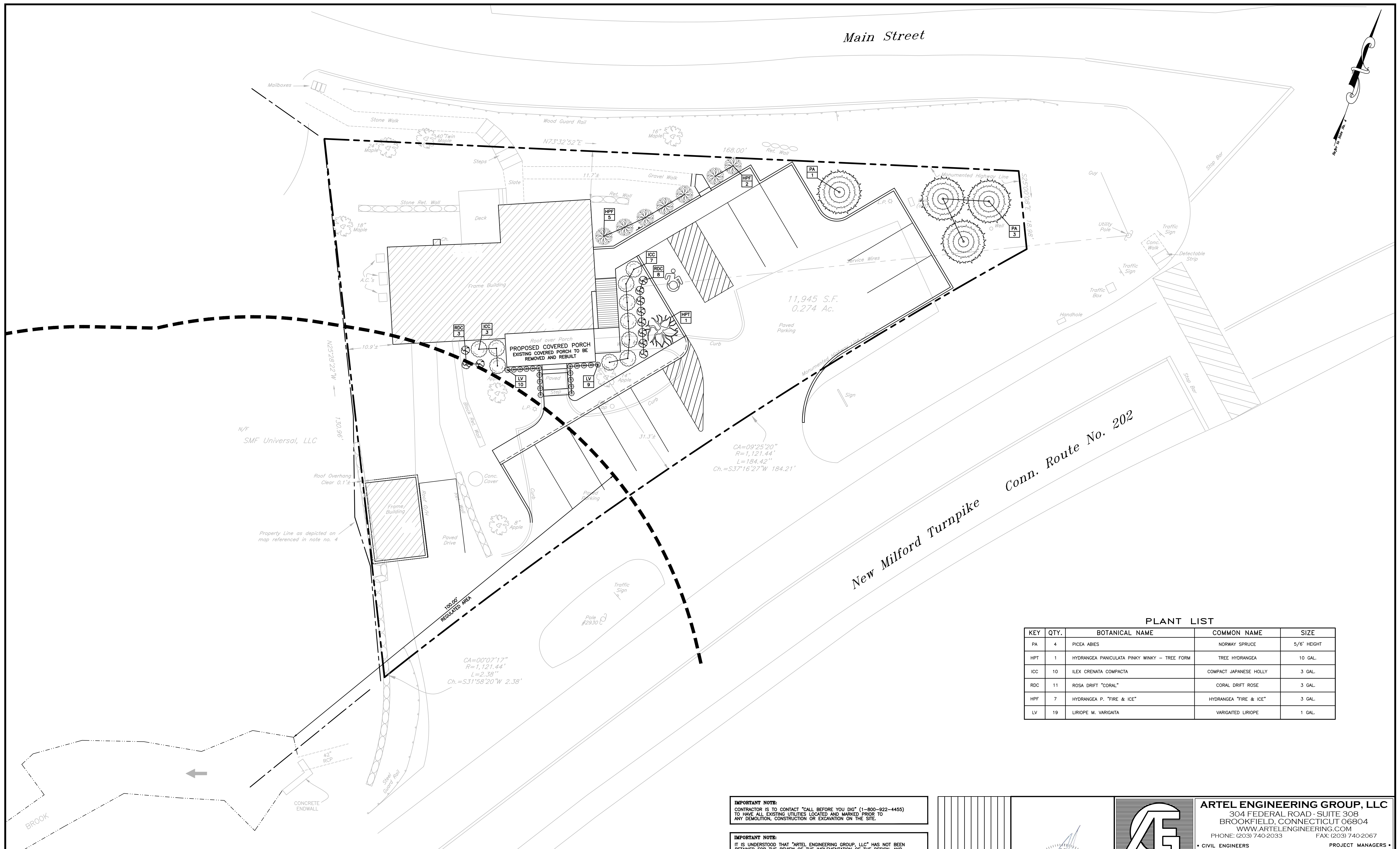
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REV.	DATE	COMMENT

ARTEL ENGINEERING GROUP, LLC
304 FEDERAL ROAD SUITE 308
BROOKFIELD, CONNECTICUT 06804
WWW.ARTELENGINEERING.COM
PHONE: (203) 740-2033 FAX: (203) 740-2067

PROJECT MANAGERS
 • CIVIL ENGINEERS
 • ENVIRONMENTAL ENGINEERS
 • MUNICIPAL ENGINEERS
 • SITE PLANNERS
 • PERMIT EXPEDITORS

GRADING, UTILITY, AND SEDIMENT AND EROSION CONTROL PLAN	
SMF UNIVERSAL, LLC 124 NEW MILFORD TURNPIKE WASHINGTON, CONNECTICUT	DRAWN BY: BH CHECKED BY: DV DATE: 1/13/22 SCALE: 1" = 10' DRAWING No: DD21050 PROJECT No: DD21050 SHEET: 4



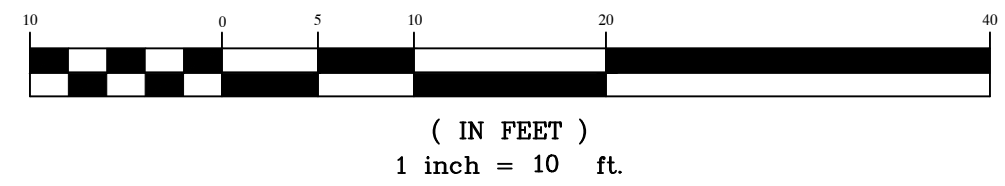
PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE
PA	4	PICEA ABIES	NORWAY SPRUCE	5/6' HEIGHT
HPT	1	HYDRANGEA PANICULATA PINKY WINKY - TREE FORM	TREE HYDRANGEA	10 GAL.
ICC	10	ILEX CRENATA COMPACTA	COMPACT JAPANESE HOLLY	3 GAL.
RDC	11	ROSA DRIFT "CORAL"	CORAL DRIFT ROSE	3 GAL.
HPF	7	HYDRANGEA P. "FIRE & ICE"	HYDRANGEA "FIRE & ICE"	3 GAL.
LV	19	LIRIOPE M. VARIGATA	VARIGATED LIRIOPE	1 GAL.

LEGEND

- PROPERTY LINE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- 100' REGULATED AREA LINE

GRAPHIC SCALE

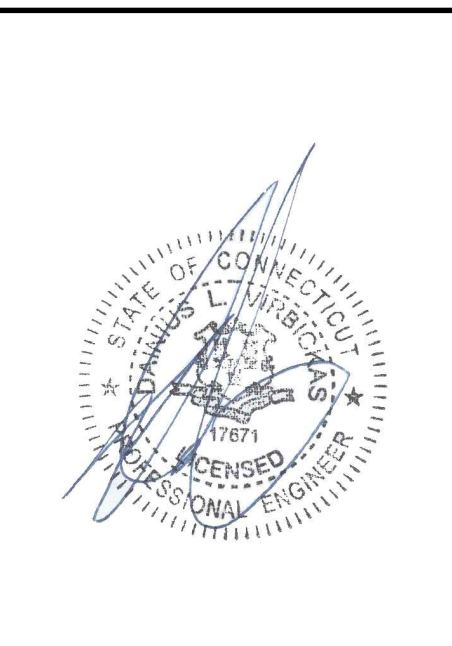


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PLANTING PLAN

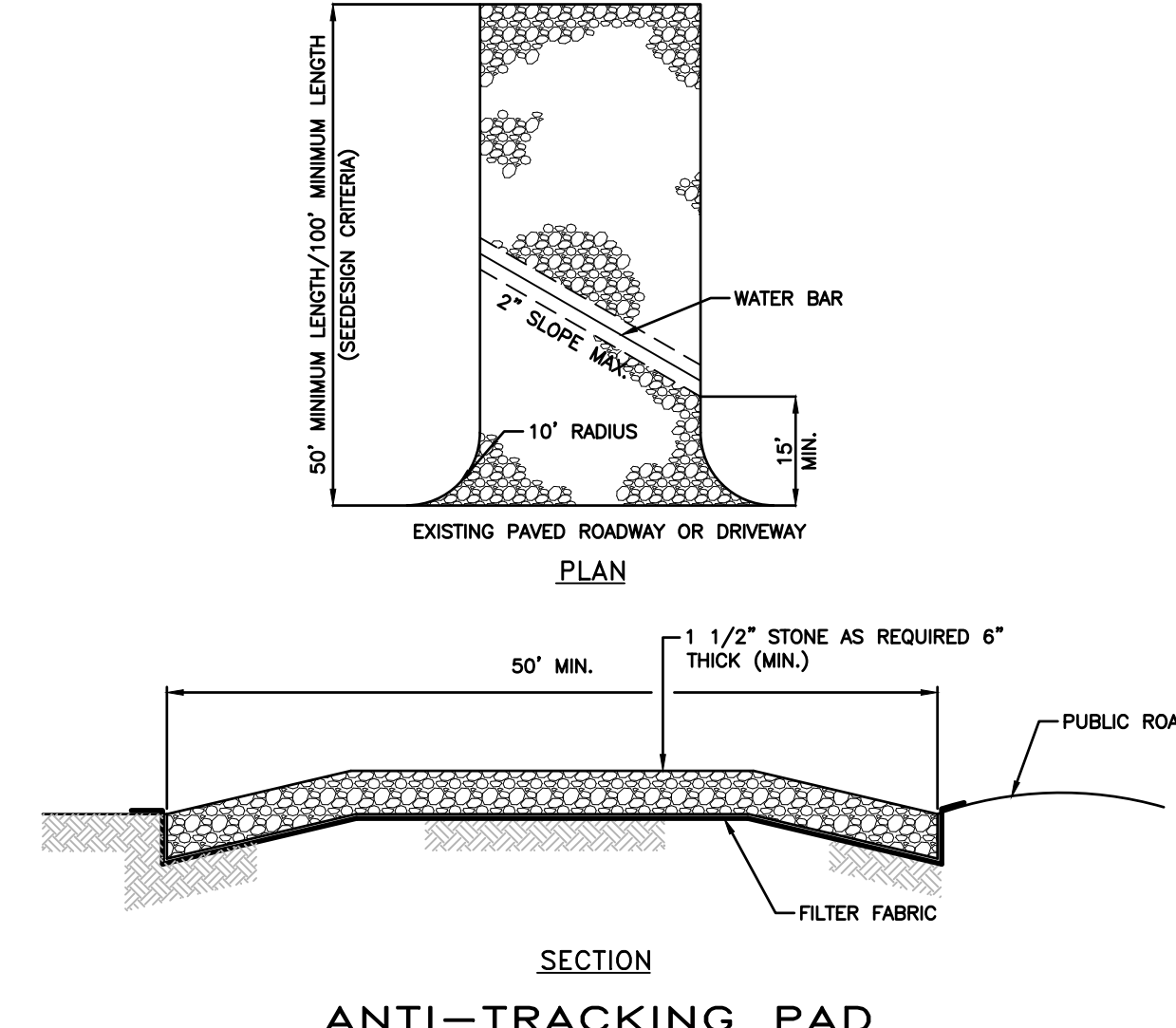
SMF UNIVERSAL, LLC
124 NEW MILFORD TURNPIKE
WASHINGTON, CONNECTICUT

DRAWN BY: BH
CHECKED BY: DV
DATE: 1/13/22
SCALE: 1" = 10'
DRAWING No: DD21050
PROJECT No: DD21050
SHEET: 5

ANTI-TRACKING PAD CONSTRUCTION ENTRANCE

DESIGN CRITERIA:

- CONSTRUCTION:**
 - SEAR AREA OF THE ENTRANCE OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AT POORLY DRAINED LOCATIONS INSTALL SUBSURFACE DRAINAGE INSURING THE OUTLET TO THE DRAINS ARE FREE FLOWING IF USED. GEOTEXTILE IN PLACE OF FRIABLE. THE GEOTEXTILE IS TO BE PLACED IN A DIRECTION PARALLEL TO THE ROADWAY CENTERLINE IN A LOOSE MANNER PERMITTING IT TO CONFORM TO THE SURFACE IRREGULARITIES WHEN THE STONE IS PLACED. UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER, THE MINIMUM OVERLAP OF GEOTEXTILE PANELS JOINED WITHOUT SEWING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE GEOTEXTILE MAY BE TEMPORARILY SECURED WITH PINS RECOMMENDED OR PROVIDED BY THE MANUFACTURER. THEY SHALL BE REMOVED PRIOR TO PLACEMENT OF STONE. PLACE THE STONE TO THE SPECIFIED DIMENSION. KEEP ADDITIONAL STONE AVAILABLE OR STOCKPILE FOR FUTURE USE. IF GRADE OF THE CONSTRUCTION ENTRANCE DRAINS TO PAVED SURFACE AND IT EXCEEDS 2%, CONSTRUCT A WATER BAR WITHIN THE CONSTRUCTION ENTRANCE AT LEAST 15 FEET FROM THE ENTRANCE ON THE PAVED SURFACE. DIVERTING RUNOFF WATER TO A SETTLING OR FILTERING AREA. CONSTRUCT ANY DRAINAGE AND FACILITIES NEED FOR WASHING OPERATIONS IF WASH RACKS ARE USED. INSTALL ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- WASHING:**
 - IF MOST OF THE SEDIMENT IS NOT REMOVED BY TRAVEL OVER THE STONE, WASH TRUCKS BEFORE VEHICLES ENTER A PUBLIC ROAD. DIRT WASH WATER FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. SETTLING AREA TO HOLD THE VOLUME OF WATER USED DURING A 2-HOUR PERIOD. USING A WASH RACK MAY WASH MORE CONVENIENT AND EFFECTIVE.
- MAINTENANCE:**
 - MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENT ONTO PAVED SURFACES. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS DEMAND. REPAIR ANY MEASURES USED TO TRAP SEDIMENT AS NEEDED. IMMEDIATELY REMOVE ALL SEDIMENT SPILLS. DROPPED, WASHED OR TRACKED ONTO PAVED SURFACE. KEEP THE ENTRANCE CLEAR OF ANY CONSTRUCTION SITE SHALL BE LEFT CLEAN AT THE END OF EACH DAY. IF THE CONSTRUCTION ENTRANCE IS BEING PROPERLY MAINTAINED AND THE ACTION OF A VEHICLE TRAVELING OVER THE STONE PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE SEDIMENT, THEN EITHER (1) INCREASE THE LENGTH OF THE CONSTRUCTION ENTRANCE, (2) MODIFY THE CONSTRUCTION ACCESS ROAD SURFACE, OR (3) INSTALL WASHING RACKS AND ASSOCIATED SETTLEMENT AREA OR SIMILAR DEVICES BEFORE THE VEHICLE ENTERS A PAVED SURFACE.



ANTI-TRACKING PAD

TEMPORARY SEEDING

1. SPECIFICATIONS:

- A. SEED SELECTION:**
 - SELECT GRASS SPECIES APPROPRIATE FOR THE SEASON AND SITE CONDITIONS.
- B. TIMING CONSIDERATIONS:**
 - SEED WITH A TEMPORARY SEED MIXTURE WITHIN 7 DAYS AFTER THE SUSPENSION OF GRADING WORK IN THE DISTURBED AREA WHERE THE EXTENSION OF WORK IS EXPECTED TO BE MORE THAN 30 DAYS BUT LESS THAN 1 YEAR. SEEDING OUTSIDE THE OPTIMUM SEEDING DATES GIVEN IN TABLE MAY RESULT IN EITHER INADEQUATE GERMINATION OR LOW PLANT SURVIVAL RATES. REDUCING EROSION CONTROL EFFECTIVENESS.
- C. SITE PREPARATION:**
 - INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS, AND GRASSED WATERWAYS IN ACCORDANCE WITH THE APPROVED FINAL GRADE ACCORDING TO PLANS AND ALLOW FOR THE USE OF APPROPRIATE EQUIPMENT FOR SEEDING PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE LAND GRADING MEASURE.
- D. SEEDING:**
 - LOOSEN THE SOIL TO A DEPTH OF 3-4 INCHES WITH A SLIGHTLY ROUGHED SURFACE. IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. SOIL PREPARATION CAN BE ACCOMPLISHED BY TRACKING WITH A BULLDOZER, DOZING, GRADING, HARROWING, GRADING WITH SECTION OF CHAIN LINK FENCE. AVOID EXCESSIVE COMPACTION OF THE SURFACE BY EQUIPMENT TRAVELING BACK AND FORTH OVER THE SURFACE. IF CHAIN LINK FENCE IS TRACKED, THE GREATEST TRACKING SHOULD BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF THE FLOW OF SURFACE WATER. APPLY ROUNDED LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. SOIL SAMPLE ANALYSIS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SYSTEMS OFFICE. APPENDIX C CONTAINS A LISTING OF THE COOPERATIVE EXTENSION SYSTEMS OFFICES. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. ADDITIONALLY, LIME MAY BE APPLIED USING RATES GIVEN IN TABLE BELOW.

SOIL TEXTURE VS. LIMING RATES

SOIL TEXTURES	TONS/ACRE OF LIME	POUNDS/1,000 S.F. OF LIME
CLAY, CLAY LOAM, AND HEAVILY ORGANIC SOIL	3	135
SANDY LOAM, LOAM, AND SILTY LOAM	2	87
LOAMY SAND, AND SAND	1	45

E. SEEDING:

- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTRIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING FERTILIZER). NORMAL SEEDING DEPTH IF MULCH IS APPLIED TOO THINLY TO PROTECT THE SEED. RE-SEED BY HAND OR HYDROSEEDING.

F. MULCHING:

- TEMPORARY SEEDINGS MADE DURING OPTIMUM SEEDING DATES SHALL BE MULCHED ACCORDING TO THE MULCH SEED MEASURE. NOTE WHEN SEEDING OUTSIDE OF THE OPTIMUM SEEDING DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.

2. MAINTENANCE:

- INSPECT SEEDING AREA AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/4" OR GREATER FOR SEED AND MULCH MOVEMENTS AND BIRD FEEDING HAS MOVED OR WHERE SOIL EROSION HAS OCCURRED. DETERMINE THE CAUSE OF THE FAILURE. BIRD FEEDING MAY BE A PROBLEM IF MULCH WAS APPLIED TOO THINLY TO PROTECT THE SEED. RE-SEED IF MOVEMENT HAS OCCURRED AS THE RESULT OF WIND, REPAIR EROSION DAMAGE (IF ANY), REAPPLY SEED AND MULCH AND APPLY MULCH ANCHORING. IF FAILURE WAS CAUSED BY CONCENTRATED WATER, (1) INSTALL ADDITIONAL WATER WASHING AND SEDIMENT MOVEMENT CONTROL DEVICES, (2) REPAIR EROSION DAMAGE, (3) RE-SEED AND APPLY MULCH ANCHORING. IF FAILURE WAS CAUSED BY CONCENTRATED WATER, (1) INSTALL ADDITIONAL WATER WASHING AND SEDIMENT MOVEMENT CONTROL DEVICES, (2) REPAIR EROSION DAMAGE, (3) RE-SEED AND SECURELY SEAL (SEE MANUFACTURER'S RECOMMENDATIONS).

GEOTEXTILE SILT FENCE

SF

GEOTEXTILE SILT FENCE MINIMUM REQUIREMENTS		
PHYSICAL PROPERTIES	TEST METHOD	MINIMUM REQUIREMENT
LITERATURE EFFICIENCY	ASTM 5141	70%
GRAB TENSILE STRENGTH (LBS)	ASTM 14432	100 LBS
ELONGATED AT FAILURE	ASTM 14432	100%
MULLER BURST STRENGTH	ASTM 51786	250 PSI
PILE TENSILE STRENGTH	ASTM 14326	50 LBS
APPELLANT OPENING SIZE	ASTM 14751	NO LESS THAN 0.80 MM AND NO GREATER THAN 0.85 MM
COLOR	ASTM 14481	2.0 CALIBERS PER YARD
PERMEABILITY	ASTM 14481	0.05 SEC. -1 (MIN.)
ULTRAVIOLET RADIATION STABILITY %	ASTM-14355	70% AFTER 500 HOURS OF ULTRAVIOLET (UVR)

SF

GEOTEXTILE SILT FENCE SLOPE/LENGTH LIMITATIONS		
SLOPE STEEPNESS	SLOPE LENGTH	WING SPACING
5:1 OR FLATTER	100 FEET	10 FEET
3:1 TO 5:1	75 FEET	7.5 FEET
2:1 TO 3:1	50 FEET	5 FEET

1. MATERIALS:

- A. GEOTEXTILE FABRIC:** SHALL BE A PEROUS SURFACE SHEET OF POLYPROPYLENE NYLON, POLYESTER, ETHYLENE OR SIMILAR FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE STANDARDS SHOWN. THE GEOTEXTILE MUST BE MANUFACTURED TO BE ALCALINE RESISTANT, AND HAVE SUFFICIENT STRENGTH AND PERMEABILITY FOR THE PURPOSE INTENDED, INCLUDING HANDLING AND BACKFILLING OPERATIONS. FABRIC SHALL BE MANUFACTURED TO BE DIMENSIONALLY STABLE AND RESISTANT TO DE-LAMINATION. THE GEOTEXTILE SHALL BE FREE OF ANY CHEMICAL TREATMENT OR COATING THAT WILL REDUCE ITS PERMEABILITY. THE GEOTEXTILE SHALL ALSO BE FREE OF ANY FLAWS OR DEFECTS WHICH WILL ALTER ITS PHYSICAL PROPERTIES. TORN OR PUNCTURED GEOTEXTILES SHALL NOT BE USED.
- B. SUPPORTING POSTS:** SHALL BE AT LEAST 42 INCHES LONG AND MADE OF 1/2 INCH SQUARE HARDWOOD STAKES OR STEEL POSTS WITH PROJECTIONS FOR FASTENING THE GEOTEXTILE POSSESSING A MINIMUM STRENGTH OF 8 POUNDS PER LINEAR FOOT.

2. PLACEMENT ON THE LANDSCAPE:

- A. FOR TOE SLOPE:** LOCATE 5-10 FEET DOWN GRADIENT FROM THE TOE OF THE SLOPE GENERALLY ON THE CONTOUR WITH MAINTENANCE AND SEDIMENT REMOVAL REQUIREMENTS IN MIND. WHEN THE CONTOUR CANNOT BE FOLLOWED, INSTALL THE FENCE SUCH THAT PERPENDICULAR WINGS ARE CREATED TO BREAK THE VELOCITY OF WATER FLOWING ALONG THE FENCE.
- B. SWALES:** LOCATE "U" SHAPE ACROSS SWALE SUCH THAT THE BOTTOM OF BOTH ENDS OF THE FENCE ARE HIGHER THAN THE TOP OF THE LOWEST SECTION OF THE FENCE.
- C. CATCH BASINS IN SWALES:** LOCATED TWO "U" SHAPES ACROSS AS ABOVE. ONE IMMEDIATELY UP SLOPE FROM THE CATCH BASIN AND THE OTHER IMMEDIATELY DOWN SLOPE FROM THE CATCH BASIN.
- D. CATCH BASINS IN DEPRESSIONS:** ENCLOSE ENTIRE CATCH BASIN.
- E. CULVERT INLETS:** LOCATE IN "U" SHAPES APPROXIMATELY 6 FEET FROM THE CULVERT IN THE DIRECTION OF THE INCOMING FLOW.
- F. LOCATE ACROSS THE SWALE AT LEAST 6 FEET FROM THE CULVERT OUTLET.**

3. INSTALLATION:

- A. TRENCH EXCAVATION:** EXCAVATE A TRENCH A MINIMUM OF 8 INCHES DEEP AND 6 INCHES WIDE ON THE UP SLOPE SIDE OF THE FENCE LOCATION. FOR SLOPE AND SWALE INSTALLATIONS, EXTEND THE ENDS OF THE TRENCH SUFFICIENTLY UP SLOPE SUCH THAT BOTTOM END OF THE FENCE WILL BE HIGHER THAN THE TOP OF THE LOWEST PORTION OF THE FENCE WHEN THE FENCE IS NOT INSTALLED ON THE CONTOUR. EXCAVATE WIDE TRENCHES SPACED AT THE INTERVALS GIVEN IN THE TABLE.
- B. SUPPORT POSTS:** DRIVE SUPPORT POSTS ON THE DOWN SLOPE OF THE TRENCH TO A DEPTH OF AT LEAST 12 INCHES INTO ORIGINAL GROUND. NEVER INSTALL SUPPORT POSTS MORE THAN FEET APART. INSTALL SUPPORT POSTS CLOSER THAN 12 INCHES APART WHEN CONCENTRATED FLOWS ARE ANTICIPATED OR WHEN STEEP CONTRIBUTING SLOPES AND SOIL CONDITIONS ARE EXPECTED TO GENERATE LARGER VOLUMES OF SEDIMENT. FOR CATCH BASINS IN HOLLOW AREAS, SUPPORT POSTS SHOULD BE PLACED AT THE CORNERS OF THE GEOTEXTILE FILTER FABRIC THAT IS USED EXCEEDS THE MINIMUM MATERIAL SPECIFICATIONS CONTAINED IN THE MEASURE. THE SPACING OF THE STAKES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- C. GEOTEXTILE FABRIC:** STAPLE OR SECURE THE GEOTEXTILE TO THE SUPPORT POSTS PER MANUFACTURER'S INSTRUCTIONS SUCH THAT AT LEAST ONE END OF THE GEOTEXTILE IS TAUT BETWEEN THE POSTS. WHEN THE TRENCH IS OBTAINED BY STAPLES, TREE ROOTS, ETC. ALLOW THE GEOTEXTILE TO LAY OVER THE OBSTRUCTION SUCH THAT THE BOTTOM OF THE GEOTEXTILE IS AT LEAST 4 INCHES ABOVE THE OBSTRUCTION. WHEN THE TRENCH IS OBTAINED BY SUPPORT POSTS, THE GEOTEXTILE SHALL BE TAUT AGAINST THE POSTS. WHEN THE TRENCH IS OBTAINED BY STAPLES, TREE ROOTS, ETC. ALLOW THE GEOTEXTILE TO LAY OVER THE OBSTRUCTION SUCH THAT THE BOTTOM OF THE GEOTEXTILE IS AT LEAST 4 INCHES ABOVE THE OBSTRUCTION. WHEN THE TRENCH IS OBTAINED BY SUPPORT POSTS, THE GEOTEXTILE SHALL BE TAUT AGAINST THE POSTS. WHEN THE TRENCH IS OBTAINED BY STAPLES, TREE ROOTS, ETC. ALLOW THE GEOTEXTILE TO LAY OVER THE OBSTRUCTION SUCH THAT THE BOTTOM OF THE GEOTEXTILE IS AT LEAST 4 INCHES ABOVE THE OBSTRUCTION. WHEN THE TRENCH IS OBTAINED BY SUPPORT POSTS, THE GEOTEXTILE SHALL BE TAUT AGAINST THE POSTS.
- D. BACKFILL AND COMPACTION:** BACKFILL THE TRENCH WITH TAMPED SOIL OR AGGREGATE OVER THE GEOTEXTILE WHEN THE TRENCH IS OBTAINED BY A STONE, TREE ROOTS, ETC. MAKE SURE THE BOTTOM OF THE GEOTEXTILE LIES HORIZONTAL TO THE GROUND WITH THE RESULTING LAP ON THE UP SLOPE SIDE OF THE GEOTEXTILE AND BURY THE FLAP 8 INCHES OF TAMPED SOIL OR AGGREGATE.

4. MAINTENANCE:

- A. INSPECT:** INSPECT THE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 3/4" OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DEWATERING OPERATIONS, INSPECT FREQUENTLY BEFORE AND AFTER PUMPING OPERATIONS. REMOVE THE SEDIMENT DEPOSITS OR, IF RAINFALL ALLOWS, INSTALL A SECONDARY SILT FENCE UP SLOPE OF THE EXISTING FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE EXISTING FENCE. REPAIR OR REPLACE THE FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE FENCE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE FENCE BECAUSE:
 - (A) THE BARRIER HAS BEEN OVERTOPPED, UNDERCUT, OR BYPASSED BY RUNOFF WATER,
 - (B) THE BARRIER HAS BEEN MOVED OUT OF POSITION, OR
 - (C) THE HAYBALES HAVE DESTROYED OR BEEN DAMAGED.
 WHEN REPEITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF ADDITIONAL CONTROLS (E.G. TEMPORARY STABILIZATION OF CONTRIBUTING AREA, DIVERSIONS, STONE BARRIERS) ARE NEEDED TO REDUCE FAILURE RATE OR REPLACE THE SILT FENCE WITH A HAY BALE BARRIER UNTIL THE CONTRIBUTING AREA IS STABILIZED. AFTER THE UP SLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, PULL THE STAKES AND BOTTOMS OF THE BALES TO AVOID PRELIMINARY BARRIERS OR REDUCTION OF ACCUMULATED SEDIMENT IS REQUIRED. THE HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER.

HAY BALE BARRIER

HB

GEOTEXTILE SILT FENCE SLOPE/LENGTH LIMITATIONS		
SLOPE STEEPNESS	SLOPE LENGTH	WING SPACING
5:1 OR FLATTER	100 FEET	10 FEET
3:1 TO 5:1	75 FEET	7.5 FEET
2:1 TO 3:1	50 FEET	5 FEET

1. MATERIALS:

- A. HAY BALES:** SHALL BE MADE OF HAY OR STRAW WITH 40 POUNDS MINIMUM WEIGHT AN 120 POUNDS MAXIMUM WEIGHT HELD TOGETHER BY TWINE OR WIRE.
- B. STAKES FOR ANCHORING HAY BALES:** SHALL BE MINIMUM OF 36 INCHES LONG AND MADE OF EITHER HARDWOOD WITH DIMENSIONS OF 1/2 INCHES SQUARE OR STEEL POSTS WITH A MINIMUM WEIGHT OF 8 POUNDS PER LINEAR FOOT.

2. PLACEMENT ON THE LANDSCAPE:

- A. TOE SLOPE:** LOCATE 5-10 FEET DOWN GRADIENT FROM THE TOE OF SLOPE GENERALLY ON THE CONTOUR.
- B. SWALES:** NOT RECOMMENDED. SEE GEOTEXTILE SILT FENCE OR STONE CHECK DAM MEASURES.
- C. CATCH BASINS IN SWALES OR SLOPES:** NOT RECOMMENDED. SEE GEOTEXTILE SILT FENCE OR STONE CHECK DAM MEASURES.
- D. CATCH BASINS IN DEPRESSIONS OR HIGH SPOTS (YARD DRAINS):** ENCLOSE CATCH BASIN.
- E. CULVERT INLETS:** NOT RECOMMENDED. SEE GEOTEXTILE SILT FENCE MEASURES.
- F. CULVERT OUTLETS:** NOT RECOMMENDED. USE TEMPORARY SEDIMENT TRAP AND/OR STONE CHECK DAM MEASURES.

3. INSTALLATION:

- A. TRENCH EXCAVATION:** EXCAVATE A TRENCH AS WIDE AS THE BALES AND AT LEAST 4 INCHES DEEP. EACH END OF THE TRENCH SHOULD BE OPEN TO PERPENDICULAR AXES OF THE FENCE. LOCATE THE BOTTOM OF THE LATEST BALE HIGHER THAN THE TOP OF THE LOWEST HAY BALE IN THE BARRIER.
- B. HAY BALE PLACEMENT:** PLACE BALES IN A SINGLE ROW IN THE TRENCH. LENGTHWISE, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER AND THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES (TO AVOID PRELIMINARY BARRIERS OR REDUCTION OF ACCUMULATED SEDIMENT IS REQUIRED. THE HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER).
- C. STAKING HAY BALES:** ANCHOR EACH BALE WITH AT LEAST 2 STAKES. DRIVING THE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES MUST BE DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. FILL ANY GAPS BETWEEN THE BALES WITH HAY OR STRAW TO PREVENT FLOW FROM ESCAPING BETWEEN THE BALES.

4. MAINTENANCE:

- A. INSPECT:** INSPECT THE HAY BALE BARRIER AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 3/4" OR GREATER FOR SEED AND MULCH MOVEMENTS AND BIRD FEEDING HAS MOVED OR WHERE SOIL EROSION HAS OCCURRED. DETERMINE THE CAUSE OF THE FAILURE. BIRD FEEDING MAY BE A PROBLEM IF MULCH WAS APPLIED TOO THINLY TO PROTECT THE SEED. RE-SEED IF MOVEMENT HAS OCCURRED AS THE RESULT OF WIND, REPAIR EROSION DAMAGE (IF ANY), REAPPLY SEED AND MULCH AND APPLY MULCH ANCHORING. IF FAILURE WAS CAUSED BY CONCENTRATED WATER, (1) INSTALL ADDITIONAL WATER WASHING AND SEDIMENT MOVEMENT CONTROL DEVICES, (2) REPAIR EROSION DAMAGE, (3) RE-SEED AND SECURELY SEAL (SEE MANUFACTURER'S RECOMMENDATIONS).
- B. HAY BALE PLACEMENT:** PLACE BALES IN A SINGLE ROW IN THE TRENCH. LENGTHWISE, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER AND THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES (TO AVOID PRELIMINARY BARRIERS OR REDUCTION OF ACCUMULATED SEDIMENT IS REQUIRED. THE HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER).
- C. STAKING HAY BALES:** ANCHOR EACH BALE WITH AT LEAST 2 STAKES. DRIVING THE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES MUST BE DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. FILL ANY GAPS BETWEEN THE BALES WITH HAY OR STRAW TO PREVENT FLOW FROM ESCAPING BETWEEN THE BALES.

TEMPORARY SEEDING RATES AND DATES

SPECIES	SEEDING RATES PER ACRE	OPTIMUM SEED DEPTH (INCHES)	OPTIMUM SEEDING DATES	PLANT CHARACTERISTICS
ANNUAL REGRASS (LOLUM MULTIFLORUM)	40 1.0	0.5	3/1 - 6/15 & 8/1 - 10/15	MAY BE ADDED IN MIXES WILL MOW OUT
PERENNIAL REGRASS (LOLUM PERENE)	40 1.0	0.5	3/1 - 7/1 & 8/1 - 10/15	USE FOR WINTER COVER. TOLERATES COLD AND LOW MOISTURE
WINTER RYE (SECALE CEREALE)	120 3.0	1.0	4/15 - 7/1 & 8/15 - 10/15	GOOD FOR WINTER COVER. TOLERATES COLD AND LOW MOISTURE. GROWS DIES BACK IN JUNE WITH SPRING
OATS (Avena saliva)	86 2.0	1.0	3/1 - 8/15 & 8/1 - 9/15	IN HORNHOLE OF WILL WITHER EARLY WITH STATE IN FALLEN WINTER
WINTER WHEAT (TRITICUM AESTIVUM)	120 3.0	1.0	4/15 - 7/1 & 8/15 - 10/15	GROWS DIES BACK IN JUNE WITH NO WINTER COVER
MILLET (ECHINOCHLOA CRUSSGALLI)	20 0.5	1.0	5/15 - 7/15	WARM SEASON SMALL GRASS. DIES WITH FROST IN SEPTEMBER
SUDANGRASS (SORGHUM SUDANENSE)	30 0.7	1.0	5/15 - 8/1	TOLERATES WARM TEMPERATURES AND DROUGHT
BUCKWHEAT (FAGOPHYM ESCULENTUM)	15 0.4	1.0	4/1 - 9/15	HARDOY PLANT THAT WILL RESPOND TO FERTILIZER AND DO GOOD AS A GREEN MANURE CROP
WEEDING COVERGRASS (ERAGOSTIS CURBULA)	5 0.2	0.25	6/1 - 7/1	SOON DESTROYED WITH WOODSACK
DOT ALL PURPOSE MIX	150 3.4	0.5	3/15 - 6/15 & 8/15 - 10/15	SUITABLE FOR ALL CONDITIONS

1. MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED. FALL SEEDING MAY BE EXTENDED 15 DAYS IN COASTAL TOWNS.

2. SEEDS IN COASTAL TOWNS.

3. SEE PERMANENT SEEDING TABLE FOR SEEDING MIXTURE REQUIREMENTS.

4. LISTED SPECIES MAY BE USED IN COMBINATIONS TO OBTAIN A BROADER TIME SPECTRUM. IF USED IN COMBINATIONS, REDUCE EACH SPECIES PLANTING RATE BY 20% OF THAT LISTED.

PERMANENT SEEDING

PS

1. SPECIFICATIONS:

- A. SEED SELECTION AND QUANTITY:**
 - SELECT SEED MIXTURE APPROPRIATE TO THE INTENDED USE AND SOIL CONDITIONS OR USE A MIXTURE RECOMMENDED BY THE NRCS. FOR SEED MIXTURES CONTAINING LEGUMES, SELECT THE TYPE AND AMOUNT OF INOCULANT. INOCULANT SHOULD BE APPLIED TO THE SEED MIXTURE. SEED QUANTITY SHOULD BE BASED ON PURITY AND GERMINATION RATE. IF THERE IS ANY QUESTION, EXPECT A PURITY OF 80% AND 98% AND A GERMINATION RATE BETWEEN 70% AND 90%. SOME SEEDING MIXTURES CALL FOR PURE LIVE SEED. INCREASE SEEDING RATES 10% WHEN USING FROST CRACK SEEDING OR HYDROSEEDING.
- B. TIMING:**
 - SEED WITH A PERMANENT SEED MIXTURE WITHIN 7 DAYS AFTER ESTABLISHING FINAL GRADES OR WHEN GRADING WORK WITHIN A DISTURBED AREA IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN 1 YEAR. SEEDING IS RECOMMENDED FROM APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1, WITH THE FOLLOWING EXCEPTIONS:
 - FOR COASTAL TOWNS AND IN THE CONNECTICUT RIVER VALLEY FINAL FALL SEEDING DATES CAN BE EXTENDED AN ADDITIONAL 15 DAYS, AND
 - NORMANT OR PROUST CRACK SEEDING IS DONE AFTER THE GROUND IS FROZEN.
- C. SITE PREPARATION:**
 - GRADE IN ACCORDANCE WITH THE LAND GRADING MEASURE. INSTALL ALL NECESSARY SURFACE WATER CONTROLS FOR AREAS TO BE MOVED REMOVE ALL SURFACE STONES 2 INCHES OR LARGER. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
 - NOTE ON AREAS WHERE WOOD CHIPS AND/OR BARK MULCH WAS PREVIOUSLY APPLIED, EITHER REMOVE THE MULCH OR INCORPORATE IT INTO THE SOIL WITH A NITROGEN FERTILIZER ADDED. NITROGEN APPLICATION RATE IS DETERMINED BY A SOIL TEST AT THE TIME OF SEEDING; ANTICIPATE 12 POUNDS NITROGEN PER TON OF WOOD CHIPS AND/OR BARK MULCH.
- D. SEEDING PREPARATION:**
 - APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH TOPSOILING MEASURE. APPLY FERTILIZER AND GROUND LIMESTONE TO SOIL TESTS CONDUCTED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCE. A PH RANGE OF 6.2 TO 7.0 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASSES. WHERE SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER AND GROUND LIMESTONE MAY BE APPLIED AT A RATE OF 300 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT, AND LIMESTONE AT 4 TONS PER ACRE OR 200 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. FERTILIZER AND GROUND LIMESTONE SHOULD BE APPLIED AT A RATE OF 2 TO 3 INCHES TO A DEPTH OF 3 TO 4 INCHES WITH AN APPROPRIATE EQUIPMENT. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEDED BED IS PREPARED FOR AREAS TO BE SEEDING AND SURFACE ROUGHENING OPERATION IS BY HAND, HARROW, OR DISC. IF DONE BY HARROW OR DISC, IT IS GENERALLY NOT RECOMMENDED TO TILLAGE AREAS TO BE SEEDING. IF THE SEEDING OPERATION IS MOVED EQUIPMENT PERPENDICULAR TO THE SLOPE. HOWEVER, FOR AREAS WHERE TEMPORARY EROSION CONTROL BLANKETS ARE TO BE USED INSTEAD OF MULCH FOR SEED, PREPARE THE SEED BED IN ACCORDANCE WITH BLANKET MANUFACTURER'S RECOMMENDATIONS. INSPECT SEED BED BEFORE SEEDING. IF THE SOIL IS COMPACTED, CRUSTED, OR HARDENED SCRAP THE AREA PRIOR TO SEEDING.

PS

SOIL TEXTURE VS. LIMING RATES		
SOIL TEXTURES	TONS/ACRE OF LIME	POUNDS/1,000 S.F. OF LIME
CLAY, CLAY LOAM, AND HEAVILY ORGANIC SOIL	3	135
SANDY LOAM, LOAM, AND SILTY LOAM	2	87
LOAMY SAND, AND SAND	1	45

E. SEED APPLICATION:

APPLY SELECTED SEED AT RATES PROVIDED IN TABLE UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTRIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING FERTILIZER). NORMAL SEEDING DEPTH IF MULCH IS APPLIED TOO THINLY TO PROTECT THE SEED. RE-SEED BY HAND OR HYDROSEEDING.

F. IRRIGATION FOR SUMMER SEEDING:

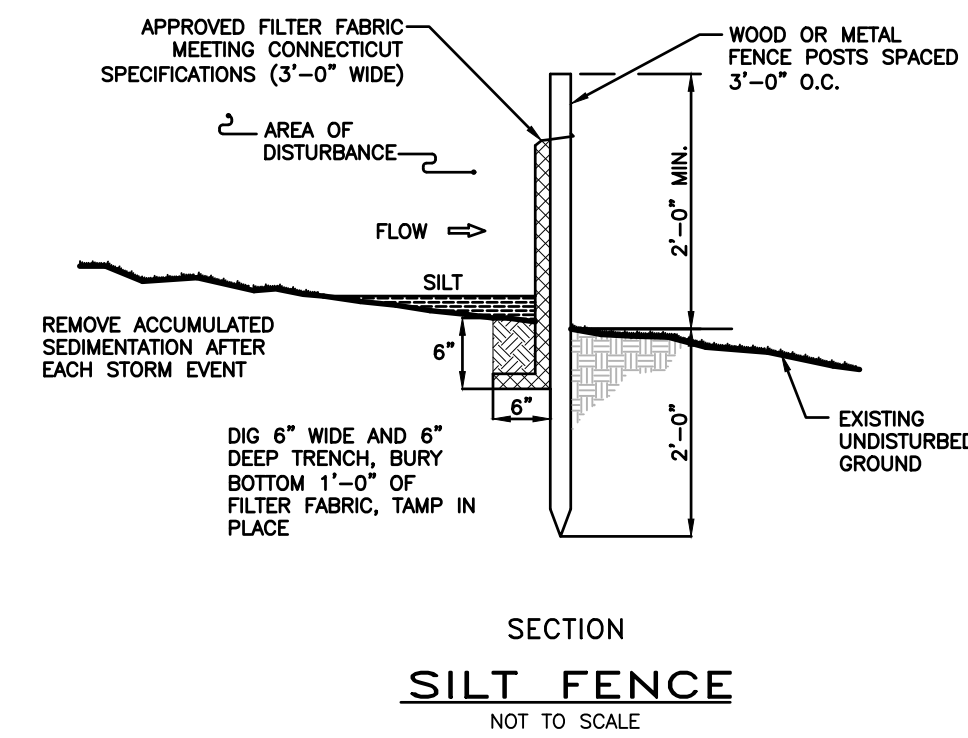
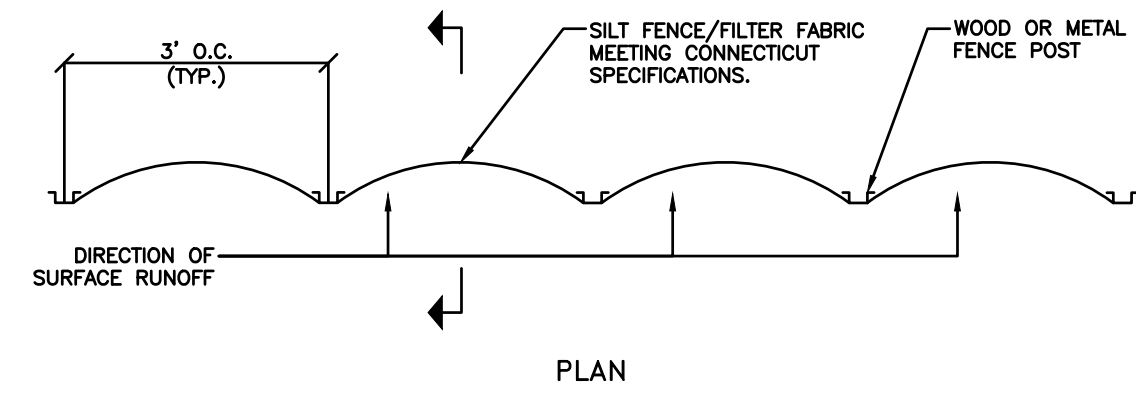
WHEN SEEDING OUTSIDE OF THE RECOMMENDED DATES IN THE SUMMER MONTHS, WATERING MAY BE NECESSARY TO ACCCELERATE WEATHERING. THE ROOT FRAGMENTS SHOULD BE MOIST. WATERING SHOULD NOT EXCEED THE INFILTRATION RATE OF THE SOIL. EACH APPLICATION MUST BE UNIFORMLY APPLIED WITH IN 1 TO 2 INCHES OF WATER APPLIED PER APPLICATION, SOAKING THE GROUND TO A DEPTH OF 4 INCHES.

2. MAINTENANCE:

- A. INITIAL ESTABLISHMENT:**
 - INSPECT SEEDING AREA AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 3/4" OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DEWATERING OPERATIONS, INSPECT FREQUENTLY BEFORE AND AFTER PUMPING OPERATIONS. REMOVE THE SEDIMENT DEPOSITS OR, IF RAINFALL ALLOWS, INSTALL A SECONDARY SILT FENCE UP SLOPE OF THE EXISTING FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE EXISTING FENCE. REPAIR OR REPLACE THE FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE FENCE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE FENCE BECAUSE:
 - (A) THE BARRIER HAS BEEN OVERTOPPED, UNDERCUT, OR BYPASSED BY RUNOFF WATER,
 - (B) THE BARRIER HAS BEEN MOVED OUT OF POSITION, OR
 - (C) THE HAYBALES HAVE DESTROYED OR BEEN DAMAGED.
 WHEN REPEITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF ADDITIONAL CONTROLS (E.G. TEMPORARY STABILIZATION OF CONTRIBUTING AREA, DIVERSIONS, STONE BARRIERS) ARE NEEDED TO REDUCE FAILURE RATE OR REPLACE THE SILT FENCE WITH A HAY BALE BARRIER UNTIL THE CONTRIBUTING AREA IS STABILIZED. AFTER THE UP SLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, PULL THE STAKES AND BOTTOMS OF THE BALES TO AVOID PRELIMINARY BARRIERS OR REDUCTION OF ACCUMULATED SEDIMENT IS REQUIRED. THE HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER.
- B. FIRST MOWING:**
 - MOW THE MAJORITY OF PLANTS TO ACHIEVE A HEIGHT OF AT LEAST 6 INCHES BEFORE MOWING IN THE FIRST TIME. DO NOT MOW WHILE THE SURFACE IS WET. MOWING WHILE THE SURFACE IS STILL WET MAY PULL MANY WEEDS FROM THE GROUND AND LEAVE A SERIES OF UNDESIRABLE PRACTICE AND CAUSE NEEDS TO BE TAKEN NOT TO EXCEED THE INFILTRATION RATE OF THE SOIL. EACH APPLICATION MUST BE UNIFORMLY APPLIED WITH IN 1 TO 2 INCHES OF WATER APPLIED PER APPLICATION, SOAKING THE GROUND TO A DEPTH OF 4 INCHES.
- C. LONG TERM MAINTENANCE:**
 - MOW AND WATER AT A RATE THAT SUSTAINS THE AREA IN A CONDITION THAT SUPPORTS THE INTENDED USE. IF APPROPRIATE THE HEIGHT OF CUT MAY BE ADJUSTED DOWNWARD, BY DEGREES, AS NEW PLANTS BECOME ESTABLISHED. CARRY OUT ANY FERTILIZATION PROGRAM IN ACCORDANCE WITH APPROVED SOIL TESTS THAT DETERMINE NUTRIENT NEEDS AND FERTILIZER NEEDS. WATERING MAY BE NECESSARY TO PREVENT EXCESSIVE LEACHING OF NUTRIENTS TO THE GROUNDWATER OR RUNOFF TO SURFACE WATERS. ADJUSTMENT OF IRRIGATION TO AVOID PRELIMINARY BARRIERS OR REDUCTION OF ACCUMULATED SEDIMENT IS REQUIRED. THE HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER.

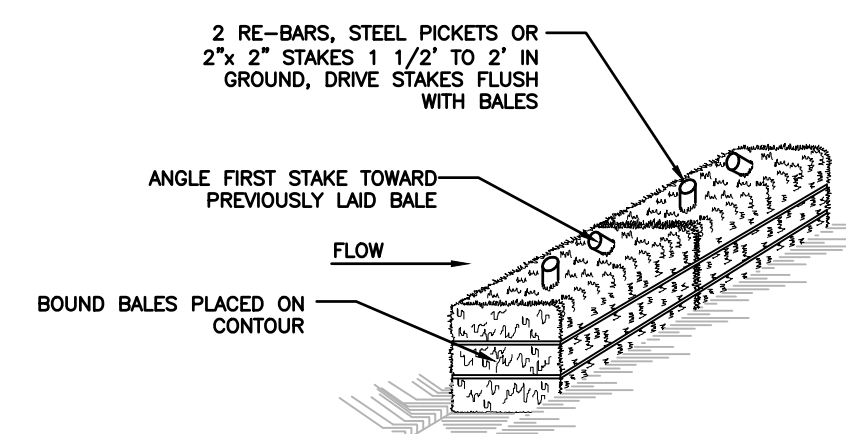
SEED MIX SELECTION

AREA TO BE SEEDD	MIXTURE NUMBER	
	MOWING DESIRED	MOWING NOT DESIRED
BORROW AREAS, ROADSIDES, POND BANKS, AND OTHER SLOPES AND BANKS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
A. WELL OR EXCESSIVELY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
B. SOMEWHAT POORLY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
C. VARIABLE DRAINAGE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
DRAINAGE DITCH AND CHANNEL BANKS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
A. WELL OR EXCESSIVELY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
B. SOMEWHAT POORLY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
C. VARIABLE DRAINAGE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
DIVERSIONS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
A. WELL OR EXCESSIVELY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
B. SOMEWHAT POORLY DRAINED SOILS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22	5, 6, 7, 8, 9, 10, 11, 12, 16, OR 22
C. VARIABLE DRAINAGE	1,	



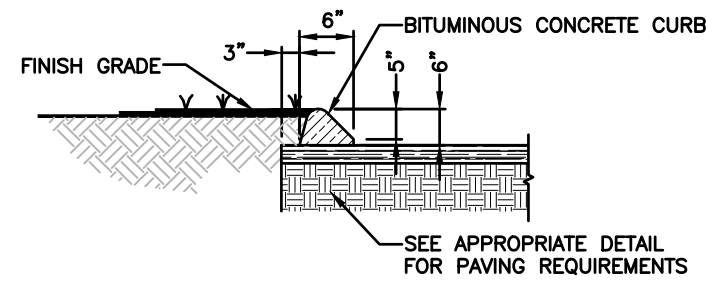
**SECTION
SILT FENCE**
NOT TO SCALE

DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF HAY BALES (FOR SLOPES LESS THAN 25%)



- NOTES:**
1. BALES SHALL BE PLACED AT THE TOE OF FILL SLOPE ALONG THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPT (WHEN NEEDED).
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS.

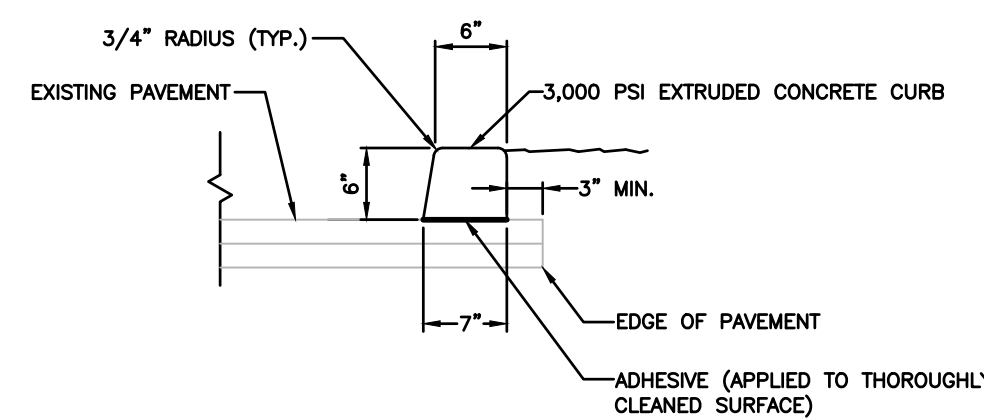
HAY BALE
NOT TO SCALE



- NOTES:**
- BITUMINOUS CURBING SHALL CONFORM TO STATE OF CT. D.O.T SPECIFICATIONS.
 - BITUMINOUS CURBING TO BE INSTALLED ONLY WHERE PERMITTED (NOT TO BE USED ON LANDSCAPED ISLANDS)

BITUMINOUS CONCRETE CURB

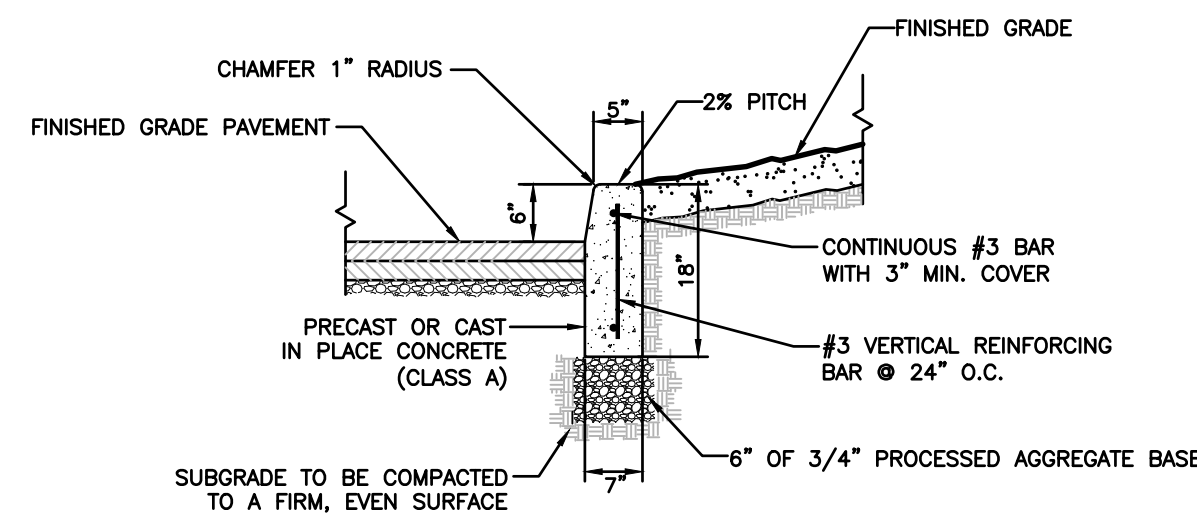
NOT TO SCALE



EXTRUDED CONCRETE CURB

NOT TO SCALE

- NOTES:**
- EXTRUDED CURBING IS AN ACCEPTABLE ALTERNATE TO PRECAST OR POUR IN PLACE CURBING (ON SITE ONLY). NOT TO BE USED ON GRAVEL SURFACES. CONCRETE TO BE PRODUCED IN ACCORDANCE WITH ASTM C94 OR ASTM C685 AS APPLICABLE.



CONCRETE CURBING DETAIL

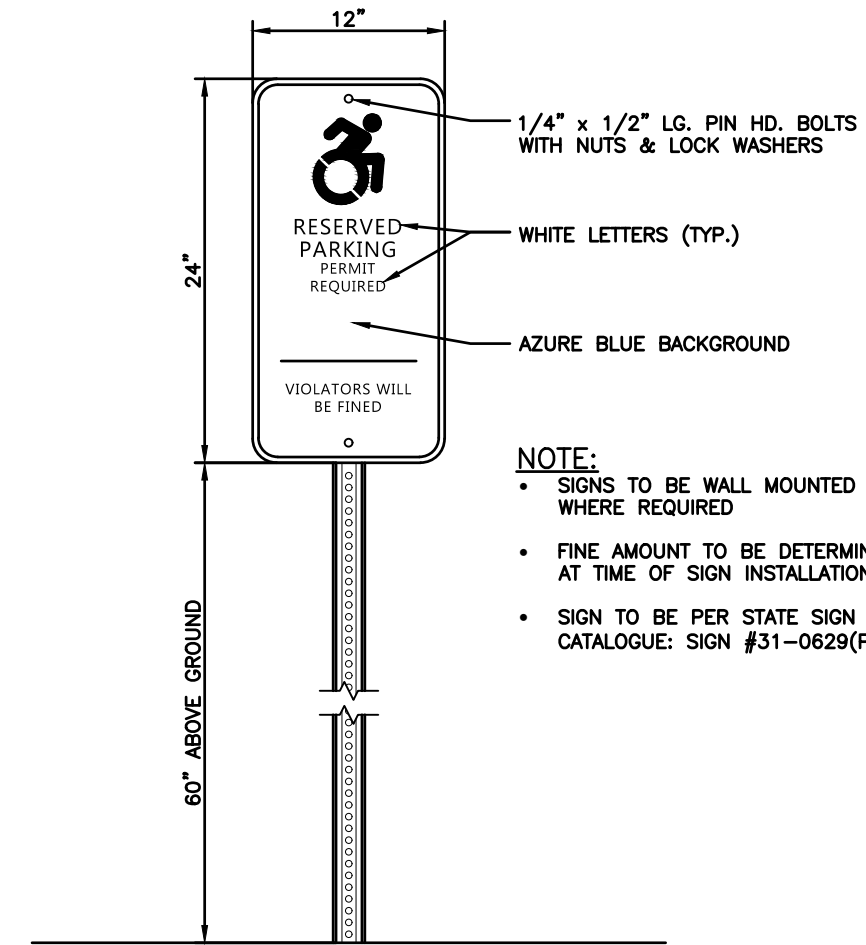
NOT TO SCALE

- NOTES:**
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 P.S.I @ 28 DAYS MODIFIED DOT CLASS "C" CONFORM TO ACI-301 & ACI 318-99.

PLACE 1/4" PREMOULDED EXPANSION JOINTS EVERY 20 FT. PLACE EXPANSION JOINT FILLER MATERIAL THE FULL DEPTH OF CONCRETE RECESSED AT 1/4" FROM THE TOP OF THE CONCRETE.

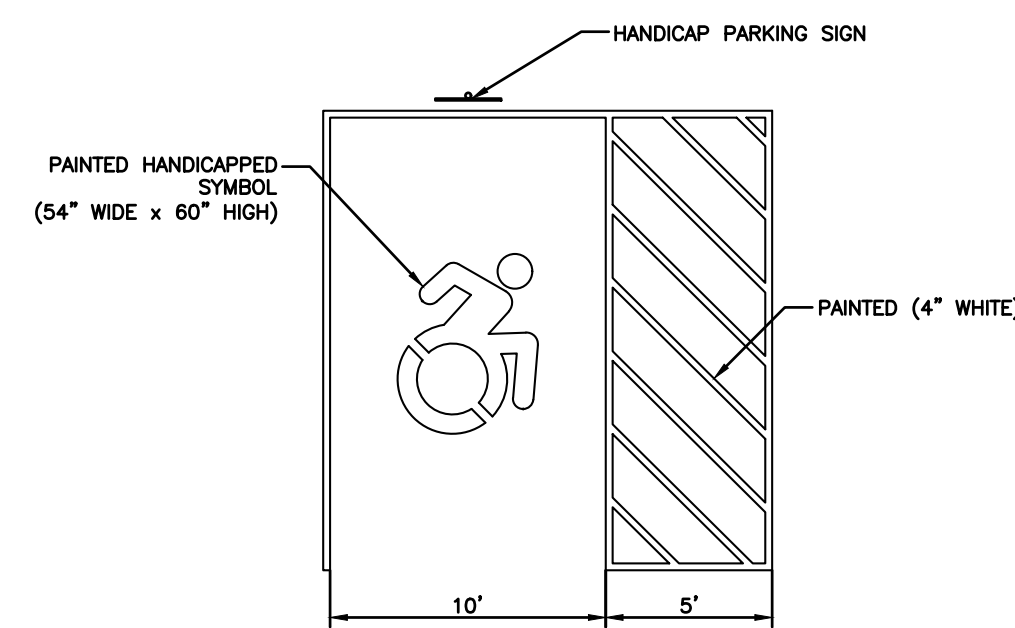
FILLER MATERIAL SHALL BE PREFORMED, NON EXTRUDING, BITUMINOUS TYPE CONFORMING TO A.S.T.M. D1751.

*CONCRETE CURBING IS REQUIRED FOR LANDSCAPED ISLANDS. EXTRUDED CONCRETE CURBING IS AN ACCEPTABLE ALTERNATE TO FULL DEPTH CURBING.



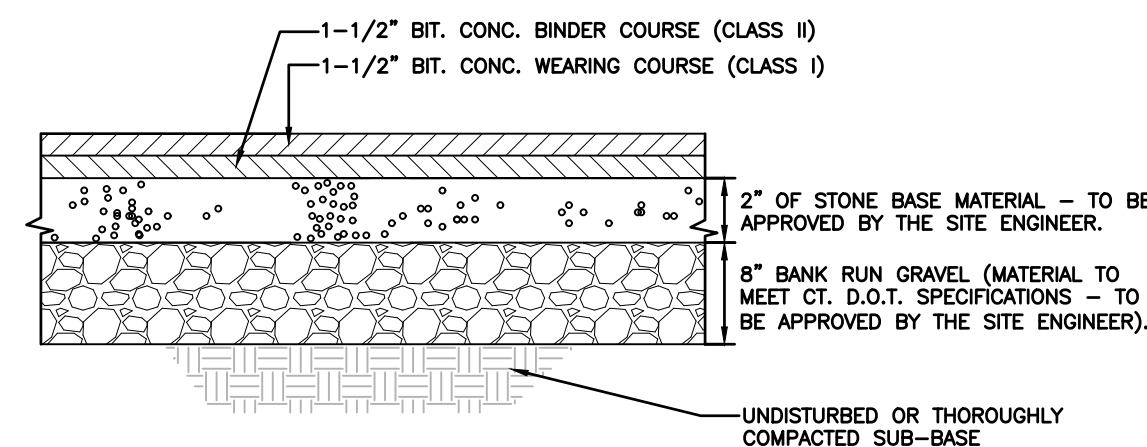
- NOTE:**
- SIGNS TO BE WALL MOUNTED WHERE REQUIRED
 - FINE AMOUNT TO BE DETERMINED AT TIME OF SIGN INSTALLATION
 - SIGN TO BE PER STATE SIGN CATALOGUE: SIGN #31-0629(P)

HANDICAP PARKING SIGN
NOT TO SCALE



TYPICAL HANDICAP PARKING AND STRIPING DETAIL

NOT TO SCALE



STANDARD DUTY BITUMINOUS PAVEMENT

NOTES:

TO BE PLACED IN PARKING AREAS FOR PASSENGER VEHICLES AND OTHER AREAS WHERE FREQUENT TRUCK TRAFFIC IS NOT ANTICIPATED. BASE MATERIAL SHALL CONFORM TO CONNECTICUT D.O.T. SPECIFICATION M.02.05 GRADATION B. AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

SUBGRADE TO BE MOISTURE CONDITIONED AND PROFFROLLED PRIOR TO PLACEMENT OF FILL AND/OR PAVEMENT. PAVEMENT MATERIAL TO CONFORM TO CONNECTICUT D.O.T. SPECIFICATION M.04.03

PROCESSED AGGREGATE BASE SHALL CONFORM TO CONNECTICUT D.O.T. SPECIFICATION M.05.01

EROSION AND SEDIMENTATION NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO PRE-CONSTRUCTION CLEARING AND GRUBBING AND PRIOR TO CONSTRUCTION.
2. HAY BALE FILTERS AND/OR SILT FENCE WILL BE INSTALLED AT ALL CULVERT OUTLETS AND ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
3. ALL CULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP-RAP. ENERGY DISSIPATORS WILL BE PROVIDED FOR THESE AREAS.
4. CATCH BASINS WILL BE PROTECTED WITH HAY BALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2002 CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES.
6. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABILIZATION WILL BE SCHEDULED AS SOON AS PRACTICAL.
7. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL SITE STABILIZATION HAS BEEN ACHIEVED.
8. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUESTED, BY THE TOWN OR ENGINEER.
9. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
10. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING OFFICE OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
11. ALL SILT FENCE OR HAYBALES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT REMOVED AND ALL DAMAGED EROSION CONTROLS REMOVED AND REPLACED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF HIS CONTRACT. THE CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.
13. SOIL AND EROSION CONTROLS MUST BE INSPECTED AND APPROVED BY THE TOWN PRIOR TO COMMENCEMENT OF WORK.
14. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.
15. UNLESS DIRECTED OTHERWISE BY THE TOWN, THE PLANTING SEASON SHALL BE MARCH 15 TO JUNE 15 AND AUGUST 15 TO OCTOBER 15. AFTER OCTOBER 15, AREAS WILL BE STABILIZED WITH HAYBALE CHECK, FILTER FABRIC OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.
16. ALL NECESSARY MEASURES WILL BE TAKEN TO ENSURE THAT NO DRAINAGE FROM THE TOWN ROADS ENTERS THE SITE DURING OR AFTER CONSTRUCTION.

MAINTENANCE OF EROSION AND SEDIMENT CONTROLS:

1. ALL EROSION AND SEDIMENTATION CONTROLS TO BE CHECKED WEEKLY AND/OR AFTER A RAIN EVENT AND REPAIRS MADE, IF NECESSARY.
2. PRIOR TO THE TIME OF ANY FORECASTED RAINFALL, ALL EROSION AND SEDIMENTATION CONTROLS TO BE CHECKED AND NECESSARY REPAIRS MADE.
3. ALL SILT IS TO BE REMOVED FROM EROSION CONTROLS AS NECESSARY AND/OR PRIOR TO ANY FORECASTED RAINFALL.
4. ALL REMOVED SILT IS TO BE PROPERLY DISPOSED OF IN AN APPROVED DISPOSAL AREA. ANY DISPOSED SILT IS TO BE IMMEDIATELY SEEDED WITH ANNUAL RYE GRASS AND MULCHED.
5. AFTER ALL DISTURBED AREAS ARE STABILIZED AND APPROVAL TO REMOVE EROSION AND SEDIMENT CONTROLS HAVE BEEN OBTAINED FROM THE TOWN OR ENGINEER, THE CONTROLS CAN BE REMOVED.
6. A FORMAL LOG SHOULD BE KEPT OF ALL EROSION CONTROL INSPECTIONS AND MAINTENANCE, INCLUDING REMOVAL OF ANY TRAPPED SILT. THE LOG SHOULD BE KEPT ON SITE.
7. TEMPORARY CONTROLS ARE TO CONSIST OF SEEDING WITH ANNUAL RYE GRASS. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED IF SEASON WILL NOT PERMIT GRASS TO GERMINATE.
8. AFTER COMPLETION OF THIS PROJECT, ALL CATCH BASINS ARE TO BE CLEANED AND THEREAFTER ON A REGULAR BASIS. THE TIME INTERVAL SHOULD NOT EXCEED ONE YEAR.

IMPORTANT NOTE:
CONTRACTOR IS TO CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) TO HAVE ALL EXISTING UTILITIES LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

IMPORTANT NOTE:
IT IS UNDERSTOOD THAT "ARTEL ENGINEERING GROUP, LLC" HAS NOT BEEN RETAINED FOR THE REVIEW OF THE IMPLEMENTATION OF THE DESIGN, AND OBSERVATION OF CONSTRUCTION. THE OWNER SHALL EMPLOY UNDER SEPARATE CONTRACT FOR SUCH SERVICE AS REQUIRED.

IMPORTANT NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

REV.	DATE	COMMENT

ARTEL ENGINEERING GROUP, LLC
304 FEDERAL ROAD - SUITE 308
BROOKFIELD, CONNECTICUT 06804
WWW.ARTELENGINEERING.COM
PHONE: (203) 740-2033 FAX: (203) 740-2067

• CIVIL ENGINEERS • ENVIRONMENTAL ENGINEERS • MUNICIPAL ENGINEERS • PROJECT MANAGERS • SITE PLANNERS • PERMIT EXPEDITORS •

DETAILS	
SMF UNIVERSAL, LLC 124 NEW MILFORD TURNPIKE WASHINGTON, CONNECTICUT	DRAWN BY: BH CHECKED BY: DV DATE: 1/13/22 SCALE: AS NOTED DRAWING No: DD21050 PROJECT No: DD21050 SHEET: 7