TOWN OF MILFORD

Office of Community Development

Planning • Zoning • Building Safety • Code Enforcement • Health Economic Development • Active Projects

Administrative Review

Date: March 23, 2021

To: Jason Plourde, Chair - Zoning Board of Adjustment

From: Lincoln Daley, Community Development Director

Subject: Case #2021-08 Housing Initiatives of New England, 54 School Street, Tax Map 26 Lot

169 Special Exception Application.

The applicant is before the Board of Adjustment seeking a SPECIAL EXCEPTION from the Milford Zoning Ordinance, Article V, Section 5.05.5 to allow the construction of a portion of the proposed addition to the existing vacant commercial building, dumpster pad, and generator within the 15 side dimensional setback in the Commercial 'C' District and Oval District Overlay. The purpose of the addition and improvements are associated with the proposed re-use and expansion of the building for an 18 unit multi-family housing development. In reviewing the files for this property, I offer the following comments:

1. Existing Conditions:

- a. The subject property is approximately .52 acres (22,650 sq. ft.) and is primarily developed. The property contains the 19,192 square foot (gross area) former Milford Telegraph and School building. The building is mainly vacant with a small portion building leased for equipment storage.
- b. Property contains approximately 134 feet of linear frontage on Middle Street, 162 linear feet of frontage on School Street, and 178 linear feet on Bridge Street. The property is serviced by municipal water and sewer.
- c. The subject property falls within Commercial 'C' and Oval Districts and is situated among an established mixed-use, residential, and commercial neighborhood. To the north, the subject property abuts the Milford Mills multi-family senior development and a two-family residence. Located to the east is the Milford Fire Station. To the west, the property abuts a municipal parking lot and mixed use building. Lastly, to the south, the property abuts commercial and mixed used buildings.
- d. The existing building is located 15.64 linear feet from the western side dimensional setback and 0 feet on the eastern front setback on School Street.
- 2. The applicant is seeking to convert and expand the existing vacant commercial building to an 18 unit, multifamily, senior housing development. A portion of the proposed expansion lies 11.8 feet from the side dimensional setback where 15 feet is required. In addition, the site plan displays the locations of a 10' x 10' square foot dumpster enclosure/pad and 8' x 10 square foot transformer pad within 5 feet of the same side dimensional setback. Both are defined as structures under the Milford Zoning Ordinance and will require setback relief under the same provision.
- 3. Pursuant to Section 5.05.5, locating a structure within the 15 foot side dimensional setback is permitted by way of Special Exception. Upon further examination of the surrounding properties within the downtown Oval district, we find that is it common for the existing structures to encroach within front, side, and rear setbacks comparatively. This is due to the pre-existing, non-conforming nature of the lots and age/location of the buildings.



- 4. This application submitted applications for Variance relief pursuant to Sections 5.03.4 and 5.05.1.P and a Site Plan Application before the Planning Board.
- 5. As part of the Board deliberation, the applicant should be prepared to discuss the following:
 - a. Explanation /summary of the options/alternatives considered.
 - b. The applicant will need to consider alternatives to relocate the dumpster enclosure/pad site and transformer pad to a minimum distance of 11.8 feet (same as the proposed building) or submit a Special Exception for the required relief.
 - c. Impact to abutting properties and comparative analysis of building/structure locations on abutting/neighboring lots.

Aerial Photograph(s) of Subject Property:





Street View(s) of Subject Property:













Town Hall – 1 Union Square – Milford, NH 03055-4240 – (603) 249-0620 – FAX (603) 673-2273 website: www.milford.nh.gov





Property Owner's signature

ZBA Application MILFORD ZONING BOARD OF ADJUSTMENT

GENERAL PROPERTY INFOR	Hearing Date:		
PROPERTY II	Decision Date:		
Street Address: 54 BRIDGE	Decision:	Decision:	
Tax Map / Parcel #: 26 - 169	Lot Size: 24,671 s.f.		
PROPERTY CUR	Zoning District (check on	ne):	
VACANT FORMER MILFORD CAS	Residence A Residence B Residence R Commercial		
If the application involves multiple lots we copies of this page.	☐ Limited Commercial ☐ Industrial		
PROPERT	☐ Integrated Commercia		
Name:	☐ Integrated Commercia	al-Industrial-2	
Address: 264 U.S. Roun	ATIVES OF NEW ENGLAND TE BLOG 300 SUITE 2A		
City/State/Zip: SCARBOROUGH		Overlay District (check at	ny that apply):
Phone: (207) 774 - 8812	. 10 040/4	☐ West Elm Street Overl	lay
Email: ctaylore him	ec. ora	☐ Nashua/Elm Street Overlay	
-	3	☐ Commerce & Commu	nity Overlay
		☐ Open Space & Conserv	vation
The applicant is the person who is making	☐ Wetlands Conservation		
the owner or a third party. This is usually	☐ Groundwater Protection		
might be a tenant, someone who plans to lawyer, etc. If the applicant is the same as	☐ Floodplain Manageme	ent	
and leave the rest of this section blank.			
APPLICANT/REI	PRESENTATIVE	APPLICATION FEES	
SAME AS OWNER		Application Fee:	\$75.00
Name:		Abutters Fee: \$4 x	
Address:	Amount received:		
City/State/Zip:	Date Received:		
Email:	Check Cash		
Phone: ()	Cell: ()		
The undersigned property owner(s) hereby a agree to comply with all code requires	ments applicable to this application.	THE FEES ASSOCIATED WITH THIS DO NOT APPLY TO ANY OTHER FEI FOR APPROVAL OF THIS PROJECT. IMPACT, BUILDING AND OTHER FE	ES REQUIRED PLANNING,

Date Received:_

Case Number:



ZBA Application – Special Exception MILFORD ZONING BOARD OF ADJUSTMENT

e count to	Date Complete:	
PROPERTY INFORMATION	Hearing Date:	
Street Address: 54 BRIDGE ST.	Decision Date:	
Tax Map / Parcel #: 26 - 169	Decision:	
A Special Exception is a use which is permitted by the Zoning Ordinance, but requires approval from the Zoning Board of Adjustment. Most special exceptions have a list of additional criteria that must be met in order for the ZBA to approve the application. *Note that in addition to the specific criteria that may be listed for a particular special exception, all special exceptions are subject to the general criteria in Section 10.02.1 of the Zoning Ordinance.	Application for (check all that apply):	
What section of the Zoning Ordinance are you applying under? Article Section 5.05.7	□ Change/Expansion of Non- conforming Use/Structure (2.03.1.C) □ Wetland Buffer Impact (6.02.6) □ Accessory Dwelling Unit (10.2.6)	
Describe the <u>use</u> you are proposing under the above section of the Ordinance.	☐ Office in Res-A & B (10.2.7)	
MULTI- FAMILY RESIDENTIAL	☐ Home Business (7.12.6)	
Affordable Senior Housing	Side/Rear Yard Setback Reduction (Zoning District Specific) Other	
General Criteria Section 10.02.1 Describe the project you are requesting a Special Exception for: H IS PROPOSED TO RENOVATE AND EXPAND ON THE EXISTING TO CREATE AN 18 UNIT APPORDABLE SENIOR HOUSING APAR THERE IS PROPOSED A MINOR ENCROACHMENT IN THE SE	ETHENT BUILDING.	
Explain how the proposal meets the general criteria as specified in Article X, Section		
A. The proposed use is similar to those permitted in the district because: THE USE IS PERMITTED IN THE COMMERCIAL DISTRICT, AFFORDABLE SENIOR LIVING APARTMENTS IN THE ACROSS THE STREET. OTHER USES AND EXISTING BLOGS	AND THERE ARE MILL BUILDING	
B. The specific site is an appropriate location for the proposed use because: THE DEVELOPMENT WILL PRESERVE AND REMOVATE THE ! (HISTORIC) BUILDING. THE CHARACTOR AND MASS OF THE SURROUNDING BUILDINGS IN THE OVAL OVERLAY	HE BUILDING WILL FIT WIT	
C. The use as developed will not adversely affect the adjacent area because: THE PROPOSED ADDITION HAS A SMALL CORNER OF BUILDING BEING 11.8 FEET FROM THE PROPERTY LINE; THAT SIDE AN AVERAGE SETBACK DISTANCE OF 18.4 FEET WHERE IS	OF THE BUILDING HAS	
D. There will be no nuisance or serious hazard to vehicles or pedestrians because: THE DEVELOPMENT PROVIDES ADEQUATE PARKING AND ON AND AROUND THE SITE. P SENIOR LIVING FACILITIES GENERATE VERY LOW TRA	PEDESTRAN ACCESS	
E. Adequate appropriate facilities will be provided for the proper operation of the propos THE SITE WILL BE SERVICED BY MUNICIPAL SEWER PARKING IS PROVIDED ON SITE AND WITH AN EASEM APPROPRIATE FACILITIES WILL BE PROVIDED FOR PROPER	ed use because: AND WATER.	

Date Received:

Case Number:

Application #:_



Independent Senior Living Facility, 54 School Street

Application for Multifamily Setback:

General Criteria

1.

The adjacent lot is a municipal parking lot and the building on lot 26-171 is well separated from the proposed senior housing building. The design has one corner 11.8 feet setback, where 15 feet is required. Other uses within the Oval Subdistrict area exempt from yard setbacks. And the other buildings from the Oval along Middle Street and Bridge Street area not setback. So, the proposed addition will be in keeping with the neighborhood while preservice the historic Milford Cabinet Building.

The project will provide affordable senior housing near the Oval Business area which helps meet a housing need in town and bring business to the shops and restaurants in the area.

- The proposed addition is setback a minimum of 11.8 feet and an average setback of 18.4 feet on that side. The addition is well away from any adjacent building with municipal parking on two sides and a small building on lot 26-171 approximately 36 feet from the property line.
- 3. It will allow us to preserve the historic Milford Cabinet Building while construction the addition for affordable senior housing in a configuration that best works architecturally and with the site. This layout will allow a building consistent with the surrounding structures.
- The addition provides an average of 18.4-foot setback (which exceeds the required 15 feet), but in order to preserve the Milford Cabinet building and layout the addition is an efficient functional manner there is one corner 11.8 feet from the property line. This layout is very much in keeping with the neighborhood.

Preserving the Milford Cabinet building while adding the addition will increase property value and increase the value of the surrounding properties.



This site is unique in that the project is preserving the historic Milford Cabinet building. To have the means to preserve and incorporate the historic building into the project, 18 units are needed to make the development (building size and architecture) fit into the surrounding area (with the mill building across the street and surrounding municipal buildings). Other uses within the Oval Subdistrict area are exempt from any setback requirements.

The proposed 18-unit Independent Living senior housing building will fit in to the neighborhood with the setbacks, mass, and proportions of the building, it preserves the historic Milford Cabinet building and will provided a type of housing that helps meet a need within the community. The addition is an average of 18.4 feet from the property line.

We appreciate your consideration in this matter. If you have any questions or comments, please do not hesitate to contact me at (603) 472-4488 or email jkevan@tfmoran.com.

Sincerely, TFMoran Inc.

Jeffrey Kevan Senior Project Manager

GENERAL INFORMATION

OWNER/PREPARED FOR

MAP 26, PARCEL 169
HOUSING INITIATIVES OF NEW
ENGLAND CORP.
264 US RTE 1, BLDG 300 STE 2A
SCARBOROUGH, ME 04074

RESOURCE LIST

PLANNING DEPARTMENT 1 UNION SQUARE MILFORD, NH 03055 (603) 249-0620 LINCOLN DALEY COMMUNITY DEV. DIRECTOR

289 SOUTH STREET MILFORD, NH 03055 RICK RIENDEAU, DIRECTOR (603)249-0685

POLICE DEPARTMENT 19 GARDEN STREET MILFORD, NH 03055 (603)249-0630

FIRE DEPARTMENT 39 SCHOOL STREET MILFORD, NH 03055 (603)249-0680 KEN FLAHERTY, CHIEF

MIKE VIOLA, CHIEF

WATER UTILITIES 564 NASHUA STREET MILFORD, NH 03055 (603)249-0660 KEVIN STEATSON, DIRECTOR

P.O. BOX 330 MANCHESTER, NH 03105-0330 PHONE: (603) 634-3514 CONTACT: MARIO BOUCHER

LIBERTY UTILITIES PHONE: (603) 782-2321 CONTACT: ANDY MORGAN

ABUTTERS

MAP 26, LOT 91 MAP 26, LOT 91 MILFORD MILL LTD. PARTNERSHIP 264 US RTE 1, BLDG 300 STE 2A SCARBOROUGH, ME 04074 MAP 26, LOT 92

JUDITH E WHITE, TRUSTEE,
JUDITH E WHITE REVOCABLE TRUST
100 BRIDGE STREET
MILFORD, NH 03055-4571

MAP 26, LOT 164 PAUL C & LORI A WORRALL 1 BORDER STREET MILFORD, NH 03055

MAP 26, LOT 165 RKSK REALTY LLC 480 NASHUA STREET MILFORD, NH 03055

MAP 26, LOT 168 TOWN OF MILFORD, NH ONE UNION SQUARE MILFORD, NH 03055-4230

MAP 26, LOT 170 TOWN OF MILFORD, NH ONE UNION SQUARE MILFORD, NH 03055-4230

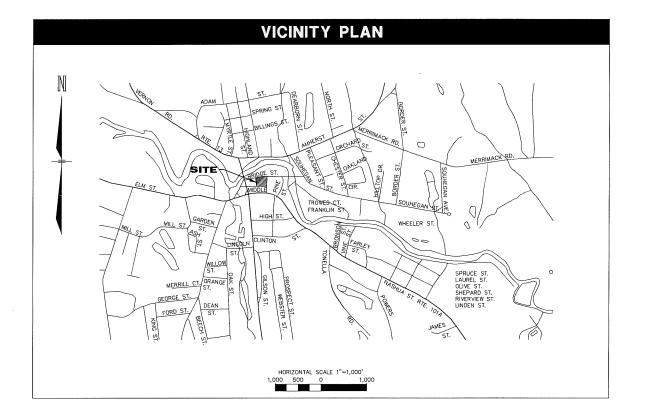
MAP 26, LOT 171 ARCHELON PROPERTIES, LLC 62 PRENTISS ST. CAMBRIDGE, MA 02140

MAP 26, LOT 172 TOWN OF MILFORD, NH 1 UNION SQUARE MILFORD, NH 03055-4230

MAP 26, LOT 173 TOWN OF MILFORD, NH ONE UNION SQUARE MILFORD, NH 03055-4230

MILFORD INDEPENDENT ELDERLY HOUSING

54 SCHOOL STREET MILFORD, NEW HAMPSHIRE



INDEX OF SHEETS

SHEET SHEET TITLE

COVER SHEET

EXISTING CONDITIONS

OVERVIEW - EXISTING CONDITIONS PLAN

SITE PREPARATION PLAN SITE LAYOUT PLAN

GRADING & DRAINAGE PLAN

UTILITY PLAN

LANDSCAPE PLAN

STORM WATER MANAGEMENT PLAN

DETAIL SHEETS LIGHTING PLAN (BY ...)

ARCHITECTURAL LAYOUT

PERMITS / APPROVALS

NUMBER APPROVED EXPIRES

TOWN SITE PLAN

WAIVERS

THE FOLLOWING WAIVERS FROM THE TOWN OF MILFORD SITE REVIEW REGULATIONS ARE BEING REVIEWED BY THE PLANNING BOARD:

TOWN OF MILFORD SITE REVIEW REGULATIONS SECTION 5.03.4

VARIANCE FOR ALLOWABLE DENSITY

2. TOWN OF MILFORD SITE REVIEW REGULATIONS SECTION 5.05.5.B -SPECIAL EXCEPTION FOR SIDE SETBACK

OWNER'S SIGNATURE

OWNER OR REPRESENTATIVE

APPROVED BY THE TOWN OF MILFORD PLANNING BOARD

BOARD MEMBER

BOARD MEMBER

TAX MAP 26 LOT 169

COVER SHEET MILFORD INDEPENDENT SENIOR HOUSING

54 SCHOOL STREET, MILFORD, NH OWNED BY/PREPARED FOR

HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: NTS

DR CK

DESCRIPTION

REV DATE

MARCH 22, 2021

Phone (603) 472-4488 Fax (603) 472-9747

76451.21 DR SRP FB - CK JK CADFILE 76451-21 COVER-DETAILS

SHEET 1 OF 15

s plan is not effective unless signed by a duly authorized officer





MAP 26, LOT 174 KSH REALTY, LLC 320 MILE SLIP ROAD MOLFORD, NH 03055 MAP 26, LOT 176 RONALD & LOREEN RACICOT, CO-TRUSTEES, RACICOT FAMILY 21 OLD WILTON ROAD MILFORD, NH 03055 MAP 26, LOT 177 FRANKO ESTATE HOLDINGS OF NH LLC 116 BURNS HILL ROAD WILTON, NH 03086-5106

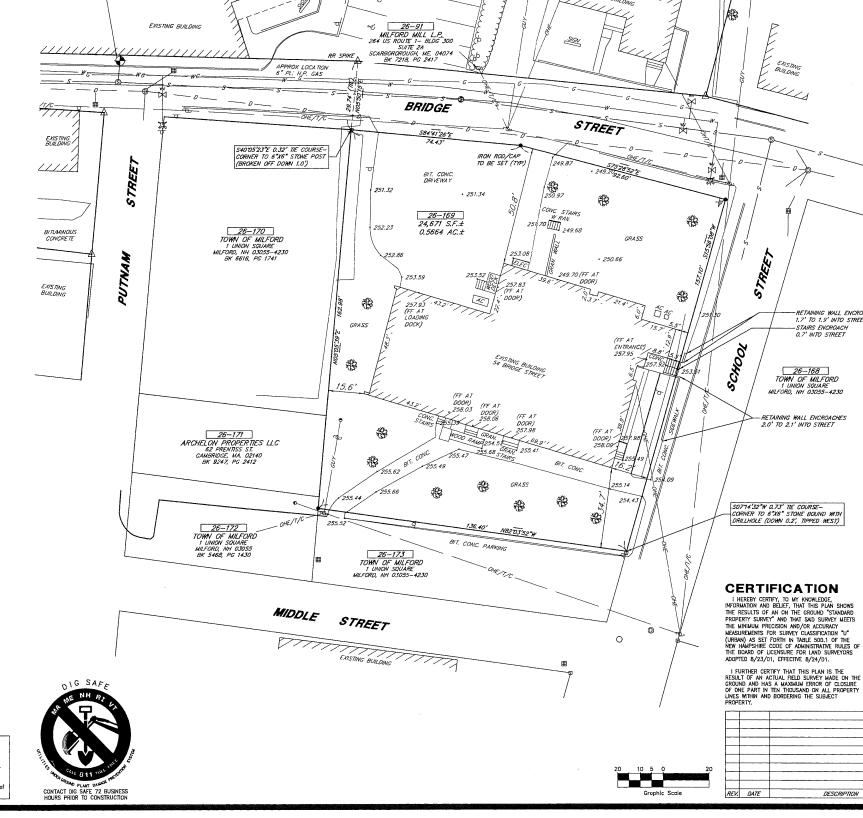


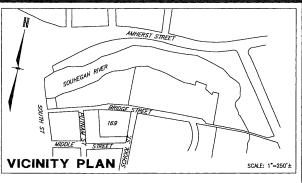
TBM #4 MAG NAIL SET ELEV=248.17

LEGEND

IRON PIN/CAP TO BE SET RAILROAD SPIKE GRANITE POST / BOUND EDGE OF PAVEMENT EDGE OF GRAVEL RETAINING WALL RAILING SIGN GASGATE LIGHT POLE GROUND LIGHT SEWER MANHOLE DRAIN MANHOLE CATCH BASIN WATER GATE UTILITY POLE x 202.0 SPOT GRADE _::_:= ₩ # LIMITS OF CLEARING / TREELINE TREES SHRUBLINE ∞ SEWER LINE WATER LINE (SEE NOTE 5) GAS LINE OVERHEAD UTILITIES UNDERGROUND UTILITIES -----UGE/T/C-----

This plan is not effective unless signed by a duly authorized officer of Thomas F. Moron, Inc.





REFERENCE PLANS

- 1. Subdivision Plan of Land, Milford Textile Corp. Samuel Goldman Helen N. Goodwin (Guardian), Bridge Street, Milford, New Hampshire, Scale 1*=20*, Dated January 1974 by Allan H. Swanson, Inc and recorded as Plan \$7432 at the Hillsborough County Registry of Deeds.
- 2. MILL PROPERTY IN MILFORD-AS SOLD MAURICE A. GOLDMAN, 1916 BY S.H. ABBOT, SURVEYOR.
- 3. PART OF BRICK SCHOOL HOUSE PROPERTY, MILFORO, NH, CONVEYED TO JOHN T. SMITH, SURVEYED OCT.

 1. 1928 BY LL JUNKINS, SURVEYOR, SCALE 30 FT=1 INCH, RECORDED AS PLAN #581 AT THE
 HILLSBORQUICH COUNTY REGISTRY OF DEEDS.
- 4. 6K PROPERTIES SUBDIMISION PLAN OF LAND OF TOWN OF MILFORD ON BRIDGE ST., PINE ST. AND SCHOOL ST., MILFORD, NEW HAMPSHIRE, SCALE: 1°=30°, DATED AUGUST 25, 1989 (LAST REVISED 1D/11/89) BY REISLAND ASSOCIATED, INC., RECORDED AS PLAN #23865 AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS.
- 5. MIDDLE ST., MILFORD, DATED 1922, BY S.H. ABBOT, SURVEYOR, SCALE 40' = 1 INCH.
- SITE PLAN SOUHEGAN NATIONAL BANK, MILFORD, N.H., SCALE: 1"=20", DATED MARCH 7, 1980 (LAST REVSED 4/18/80), BY THOMAS F. MORAN INC., RECORDED AS PLAN #13100 AT THE HILLSBORDUSH COUNTY REGISTRY OF DEEDS.

NOTES

1.7' TO 1.9' INTO STREET

DESCRIPTION

26—168 TOWN OF MILFORD I UNION SOUARE MILFORD, NH 03055—4230

-RETAINING WALL ENCROACHES 2.0' TO 2.1' INTO STREET

- OWNER OF RECORD OF MAP 26 LOT 169: HOUSING INITIATIVES OF NEW ENGLAND CORP., 264 US ROUTE 1-BLDG 300 SUITE 2A, SCARBOROUGH, ME. 04074. DEED REFERENCE TO PARCEL IS BOOK B430, PAGE 911.
- AREA OF WAP 26, LOT 169 = 24,671 S.F.± OR 0.5664 ACRES±
- 2. 26-169 INDICATES TAX MAP AND LOT NUMBER.
- 3. EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR HILLSBORDUCH COUNTY, NEW HAMPSHIRE (ALL JURISDICTIONS), MAY NUMBER 3331 1004590, EFECTIVE DATE SEPTEMBER 25, 2009, INDICATES THAT THE SUBJECT PARCEL IS NOT LOCATED WITHIN A SPECUL FLOOD MAZARD AREA.
- 4. BENCHMARK USED: USGS DISK G-1 ∯1934 MOUNTED VERTICALLY IN THE NORTHWEST CORNER OF THE TOWN HALL (5'± ABOVE SIDEWALK). ELEV.-262.53 (NGVD 1929).
- BENCHMARKS SET: AS NOTED
- 5. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. TENDRAN INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UNDERGROUND UTILITIES SHOWN. PRIOR TO ANY ECONATION ON SITE THE CONTRACTOR SHALL CONTACT DIS ASSET
- 6. CURRENT ZONING DISTRICT: COMMERCIAL
- 7. TOWN OF MILFORD STREET RECORDS DEFINE BRIDGE STREET AS A CLASS V HIGHWAY. "33 FEET WIDE AT SWINGING BRIDGE TAPERING TO 26 FEET WIDE AT JUNCTION WITH UNION SQUARE.
- STREET LINES AS ESTABLISHED BY THIS SURVEY ARE BASED UPON REFERENCE PLANS 1, 2, 3 AND 6.
- 8. EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN OR IDENTIFIED ARE THOSE WHICH WERE FOUND DURING RESEARCH PERFORMED AT THE HILLSBOROUGH COUNTY REGISTRY OF OEDDS. OTHER RIGHTS, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF SUBJECT PARCEL(S) WOULD DETERMINE.

TAX MAP 26 LOT 169

BOUNDARY AND EXISTING CONDITIONS PLAN BRIDGE STREET AND SCHOOL STREET **54 BRIDGE STREET** MILFORD, NEW HAMPSHIRE

OWNED BY/PREPARED FOR HOUSING INITIATIVES OF NEW ENGLAND

8 1/19/2021 SCALE: 11=20'

JANUARY 18, 2021

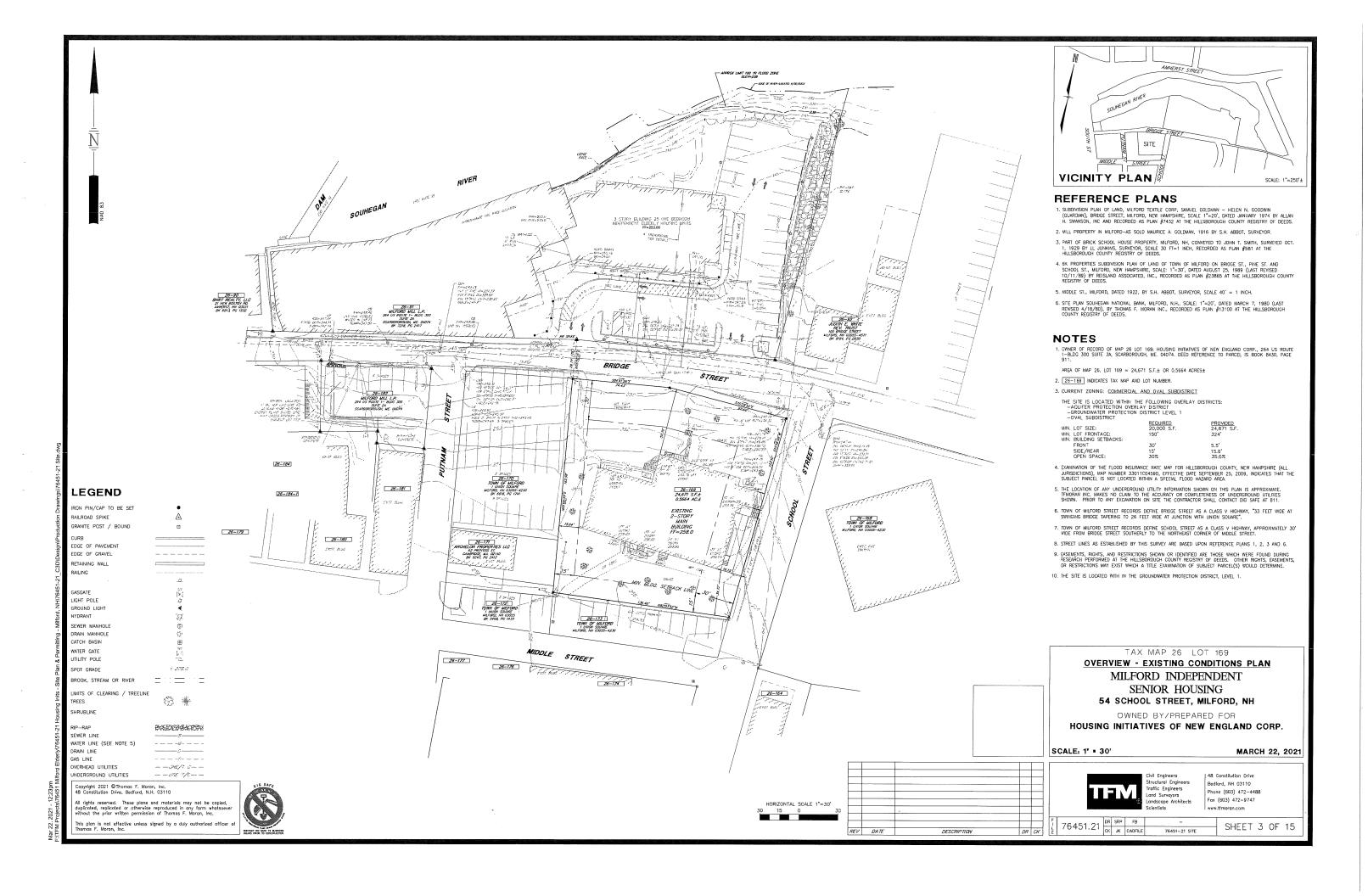


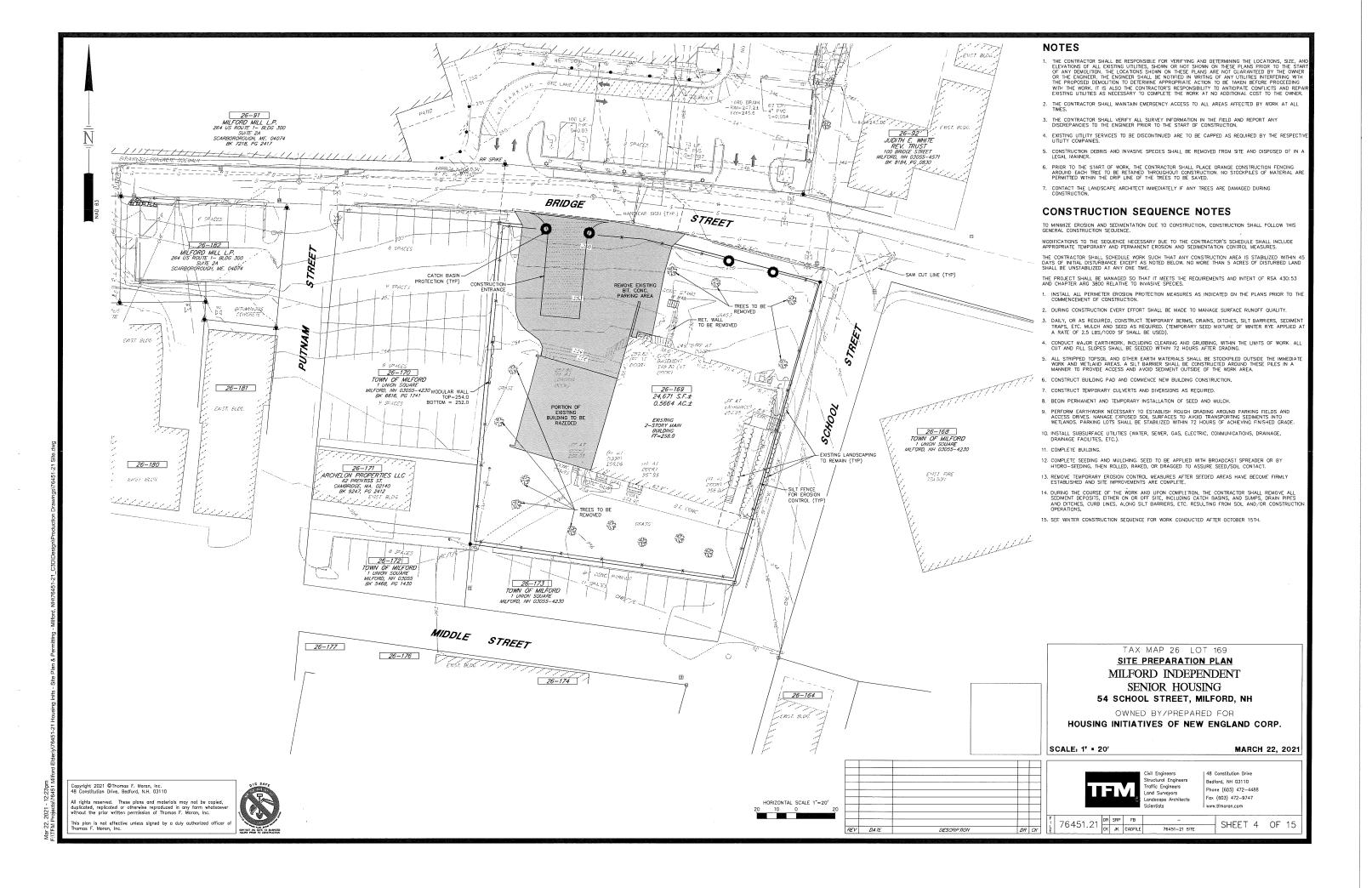
Traffic Engineers Land Surveyors

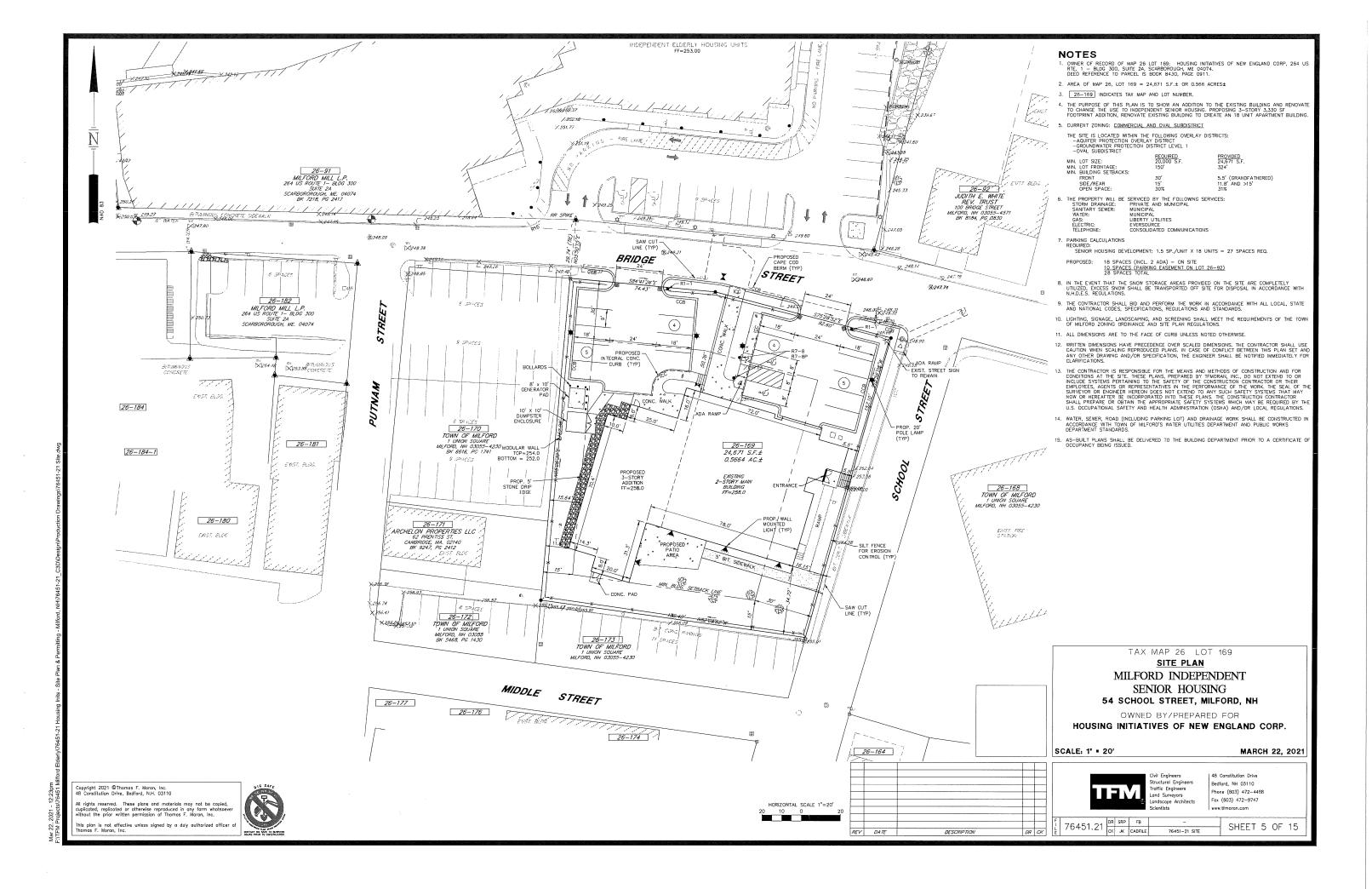
Civil Engineers
Structural Engineers
Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747

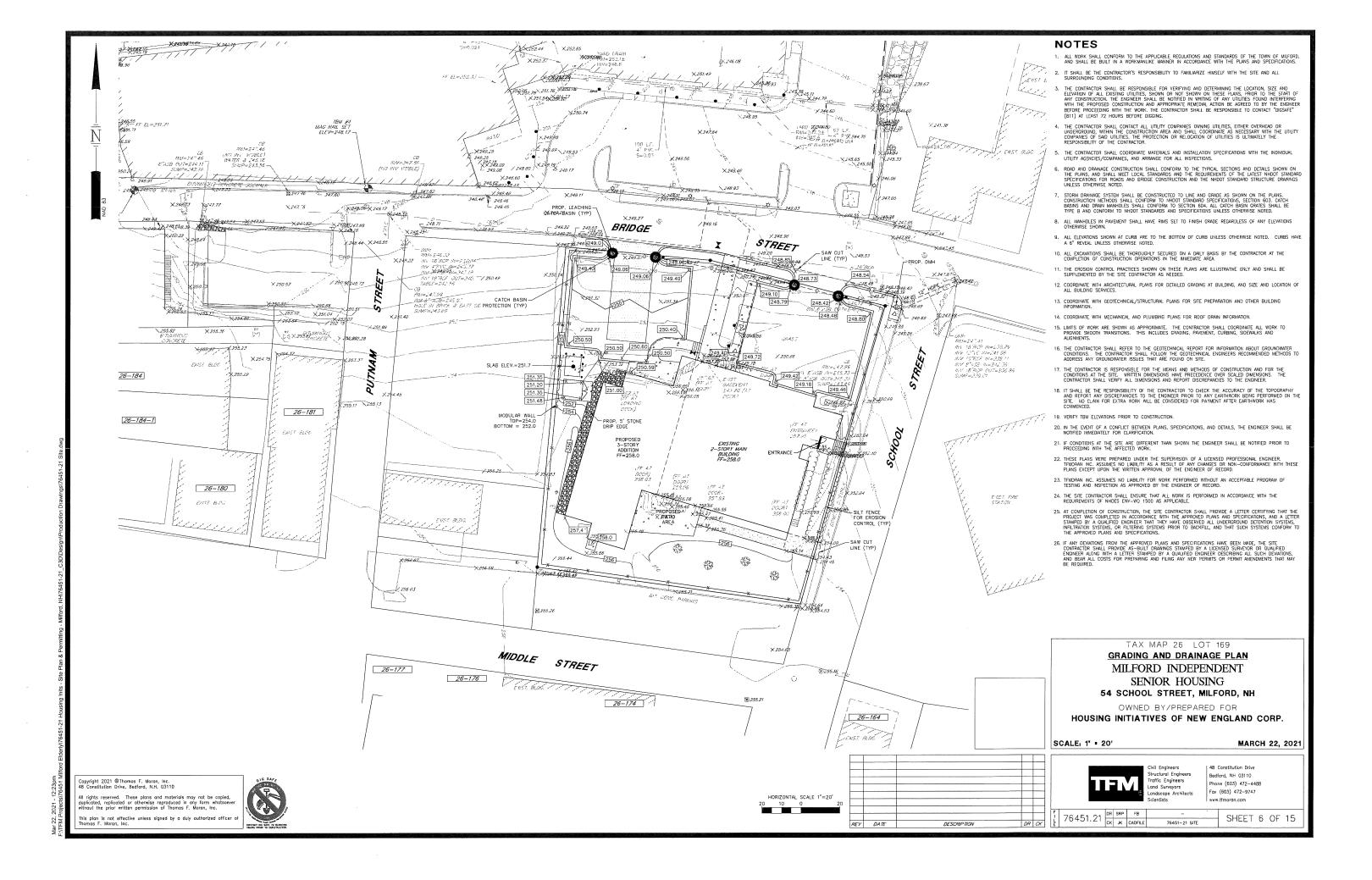
76451.20 DR STB FB | FB | CK | HGM | CADFILE | 76451-21 | SURVEY.DWG

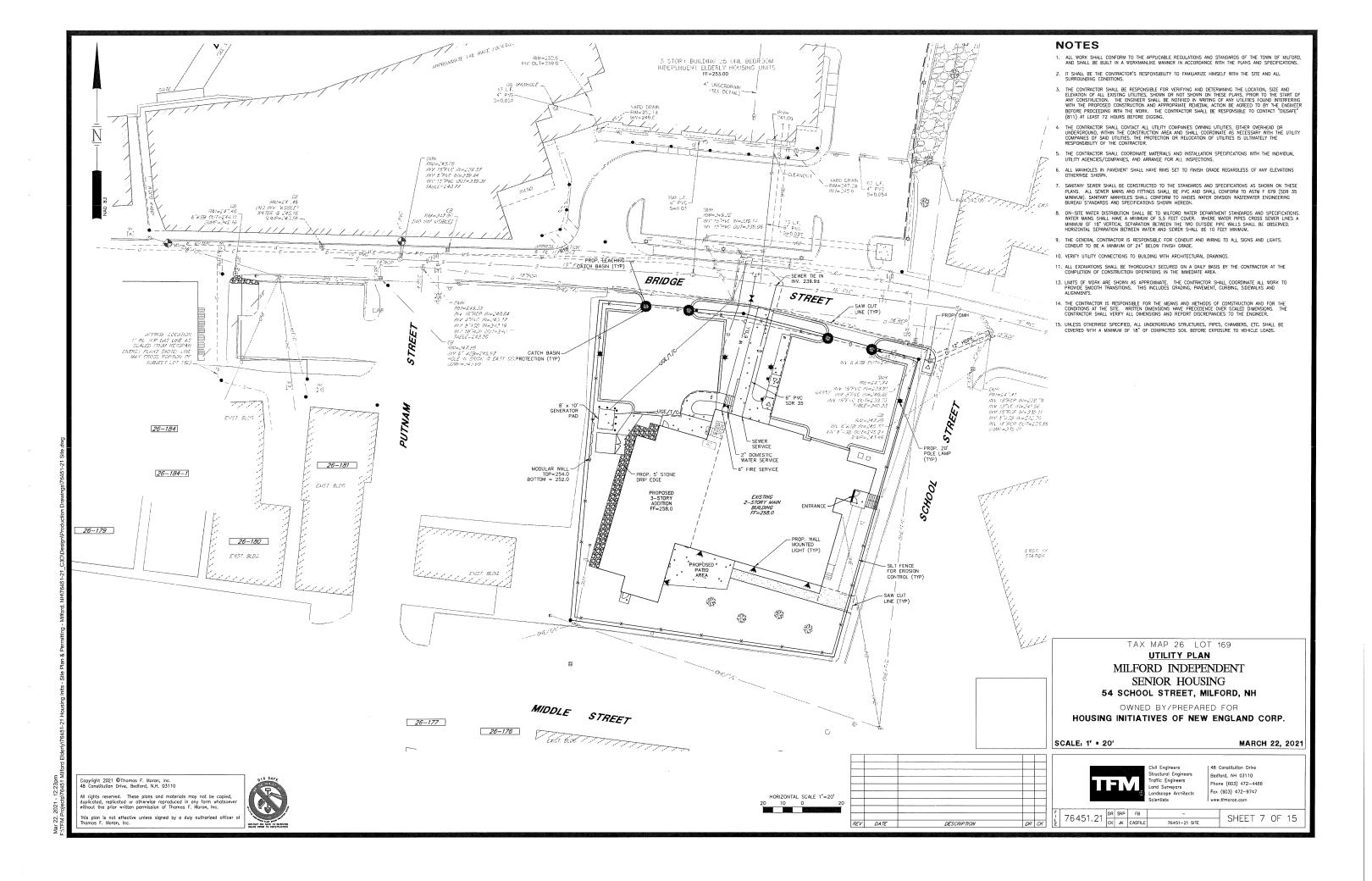
SHEET 2 OF 15

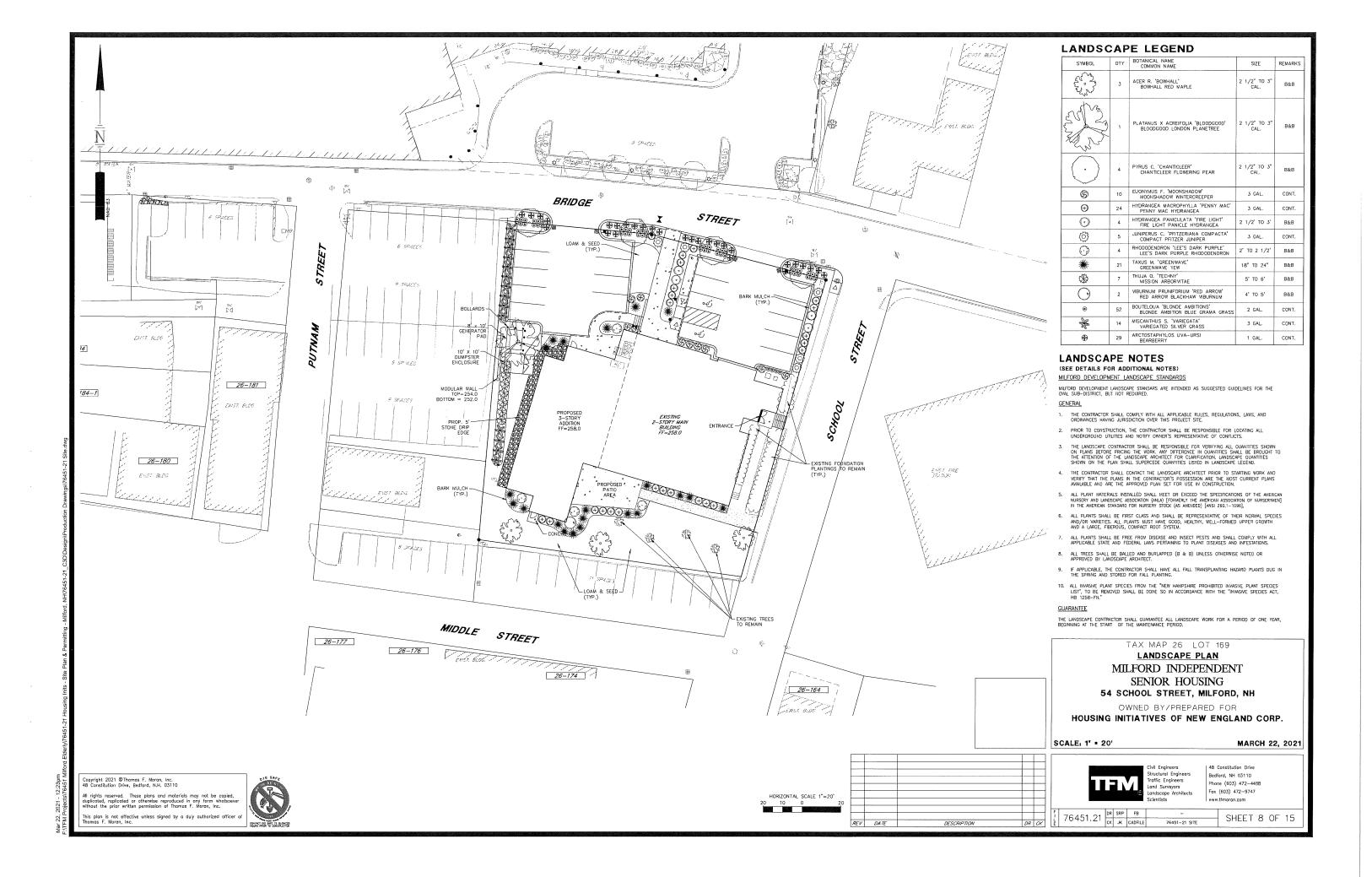


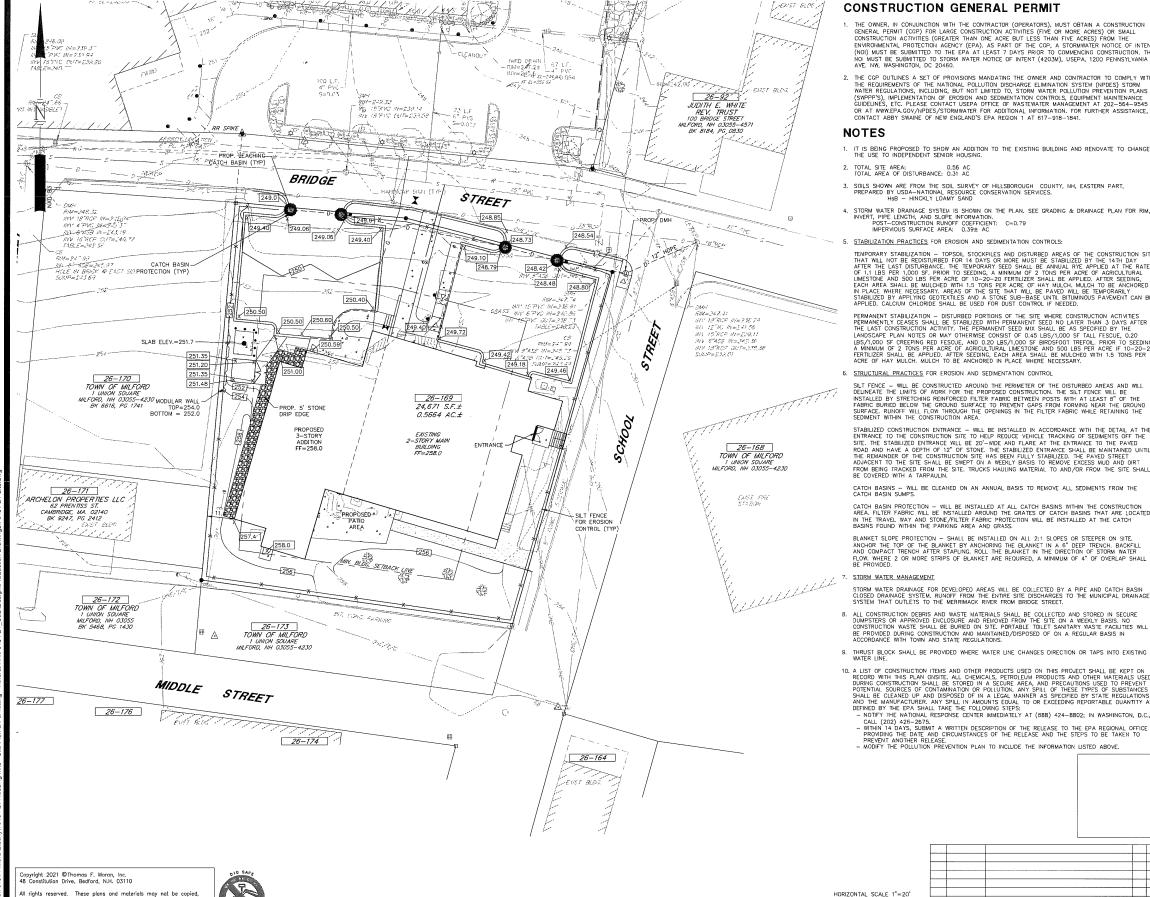












THE OWNER, IN CONJUNCTION WITH THE CONTRACTOR (OPERATORS), MUST OBTAIN A CONSTRUCTION GENERAL PERMIT (COF) FOR LARGE CONSTRUCTION ACTIVITIES (FIVE OR MORE ACRES) OR SMALL CONSTRUCTION ACTIVITIES (GREATER THAN ONE ACRE BUT LESS THAN FIVE ACRES) FROM THE ENVIRONMENTAL PROTECTION ACENCY (FEPA). AS PART OF THE COF), A STORMWATER NOTICE OF INTENT (NO) MUST BE SUBMITTED TO THE EPA AT LEAST 7 DAYS PRIOR TO COMMENCING CONSTRUCTION. THE NOIN MUST BE SUBMITTED TO STORM WATER NOTICE OF INTENT (4203M), USEPA, 1200 PENNSYLVANIA AVE. NW, WASHINGTON, DC 20450.

2. THE CGP OUTLINES A SET OF PROVISIONS MANDATING THE OWNER AND CONTRACTOR TO COMPLY WITH THE CGP OUTLINES A SET OF PROVISIONS MANDATING THE OWNER AND CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REGULATIONS, INCLUDING, BUT NOT LIMITED TO, STORM WATER POLLUTION PREVENTION PLANS (SWPPP'S), IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROLS, EQUIPMENT MAINTENANCE GUIDELINES, ETC. PLEASE CONTACT USEPA OFFICE OF WASTEWATER MANAGEMENT AT 202—564—9545 OR AT WWW.PPA.GOV/IPDES/STORMWARTER FOR ADDITIONAL INFORMATION. FOR FURTHER ASSISTANCE, CONTACT ABBY SWAINE OF NEW ENGLAND'S EPA REGION 1 AT 617—918—1841.

- IT IS BEING PROPOSED TO SHOW AN ADDITION TO THE EXISTING BUILDING AND RENOVATE TO CHANGE THE USE TO INDEPENDENT SENIOR HOUSING.
- M WATER DRAINAGE SYSTEIA IS SHOWN ON THE PLAN. SEE GRADING & DRAINAGE PLAN FOR RIM, T, PIPE LENGTH, AND SLOPE INFORMATION. POST—CONSTRUCTION RUNOFF COEFFICIENT: C=0.79
 IMPERMOUS SURFACE AREA: 0.39± AC

TEMPORARY STABILIZATION — TOPSOIL STOCKPILES AND DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 14 DAYS OR MORE WHIST BE STABILIZED BY THE 14TH DAY AFTER THE LAST DISTURBANCE. THE TEMPORARY SEE SHALL BE ANNUAL RIVE APPLIED AT THE RATE OF 1.1 LBS PER 1,000 SF. PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMISSTONE, AND SOO LBS PER ACRE OF 10–20–20 FERTILIZER SHALL BE APPLIED, AFTER SEEDING, BE PLACE WHITE HOLD AFTER SEEDING, BE PLACE WHITE HOLD STORM AND SOO LBS PER ACRE OF THE SITE ACRE OF THE SITE

PERMANENT STABILIZATION — DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LAIER THAN 3 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL BE AS SPECIFIED BY THE LANDSCAPE PLAN NOTES OR MAY OTHERWISE CONSIST OF 0.45 LBS/1,000 SF TALL FESCUE, 0.20 LBS/1,000 SF CREEPING RED FESCUE. AND 0.20 LBS/1,000 SF BIRDSFOOT TREFOLL PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS PER ACRE IF 10-20-20 FERTULIZER SHALL BE APPLIED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 1.5 TONS PER ACRE OF HAY MULCH. MULCH TO BE ANCHORDED IN PLACE WHERE NECESSARY.

SILT FENCE — WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE DISTURBED AREAS AND WILL DELINEATE THE LIMITS OF WORK FOR THE PROPOSED CONSTRUCTION. THE SILT FENCE WILL BE INSTALLED BY STRETCHING PERIFORCED FILTER FABRIC BURED STED WITH AT LEAST B" OF THE FABRIC BURIED BELOW THE GROUND SURFACE TO PREVENT GAPS FROM FORMING NEAR THE GROUND SURFACE. RUNOFF WILL FLOW THROUGH THE OPENINGS IN THE FILTER FABRIC WHILE RETAINING THE SEDIMENT WITHIN THE CONSTRUCTION AREA.

STABILIZED CONSTRUCTION ENTRANCE — WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL AT THE ENTRANCE TO THE CONSTRUCTION SITE TO HELP REQUICE VEHICLE TRACKING OF SEDIMENTS OFF THE SITE. THE STABILIZED ENTRANCE WILL BE 20 — WIDE AND FLARE AT THE ENTRANCE TO THE PAVED ROAD AND HAVE A DEPTH OF 12 OF STONE. THE STABILIZED ENTRANCE SHALL BE MAINTAINED UNTIL HE REMAINED FOR THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED. THE PAVED STREET ADJACENT TO THE SITE SHALL BE SWEPT ON A WEEKLY BASIS TO REMOVE EXCESS MUD AND DIRT FROM BEING TRACKED FROM THE SITE. TRUCKS HAULING MATERIAL TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TARPAULIN.

CATCH BASINS - WILL BE CLEANED ON AN ANNUAL BASIS TO REMOVE ALL SEDIMENTS FROM THE

CATCH BASIN PROTECTION — WILL BE INSTALLED AT ALL CATCH BASINS WITHIN THE CONSTRUCTION AREA. FILTER FABRIC WILL BE INSTALLED AROUND THE GRATES OF CATCH BASINS THAT ARE LOCATED IN THE TRAVEL WAY AND STONE/FILTER FABRIC PROTECTION WILL BE INSTALLED AT THE CATCH BASINS FOUND WITHIN THE PARKING AREA AND GRASS.

BLANKET SLOPE PROTECTION — SHALL BE INSTALLED ON ALL 2:1 SLOPES OR STEEPER ON SITE. ANCHOR THE TOP OF THE BLANKET BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING, ROLL THE BLANKET IN THE DIRECTION OF STORM WATER FLOW. WHERE 2 OR MORE STRIPS OF BLANKET ARE REQUIRED, A MINIMUM OF 4" OF OVERLAP SHALL BE PROVIDED.

STORM WATER DRAINAGE FOR DEVELOPED AREAS WILL BE COLLECTED BY A PIPE AND CATCH BASIN CLOSED DRAINAGE SYSTEM. RUNOFF FROM THE ENTIRE SITE DISCHARGES TO THE MUNICIPAL DRAINAGE SYSTEM THAT OUTLETS TO THE MERRIMAGE RIVER FROM BRIDGE STREET

- 8. ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURE DUMPSTERS OR APPROVED ENCLOSURE AND REMOVED FROM THE SITE ON A WEEKLY BASIS. NO CONSTRUCTION WASTE SHALL BE BURBLED ON SITE. PORTABLE TOLLET SANITARY WASTE FACILITIES WILL BE PROVIDED DURING CONSTRUCTION AND MAINTAINED/DISPOSED OF ON A REGULAR BASIS IN ACCORDANCE WITH TOWN AND STATE REGULATIONS.
- THRUST BLOCK SHALL BE PROVIDED WHERE WATER LINE CHANGES DIRECTION OR TAPS INTO EXISTING WATER LINE.
- 10. A LIST OF CONSTRUCTION ITEMS AND OTHER PRODUCTS USED ON THIS PROJECT SHALL BE KEPT ON RECORD WITH THIS PLAN ONSITE, ALL CHEMICALS, PETROLEUM PRODUCTS AND OTHER MATERIALS USED DURING CONSTRUCTION SHALL BE STORED IN A SECURE AREA, AND PRECAUTIONS USED TO PREVENT POTENTIAL SOURCES OF CONTAMINATION OR POLLUTION, ANY SPILL OF THESE TYPES OF SUBSTANCES SHALL BE CLEANED UP AND DISPOSED OF IN A LEGAL MANNER AS SPECIFIED BY STATE REQUIATIONS AND THE MANUFACTURER. ANY SPILL IN AMOUNTS EQUAL TO OR EXCEEDING REPORTABLE QUANTITY OF SEPTIME BY THE ERA SHALL TAKE THE FOLLOWING STEPS:
- NOTIFY THE NATIONAL RESPONSE CENTER IMMEDIATELY AT (888) 424-8802: IN WASHINGTON, D.C.,

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE

- CONSTRUCTION PROJECT.

 ALE TRANSPARENT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB;

 ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR

 APPROPRIATE CONTINUES AND, IF POSSBILE, UNDER A ROOF OR OTHER PROLOSURE;

 PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S
- LABEL; SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE
- MANUFACTUREK;
 WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINS
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED;
 TRASH DUMPSTERS SHALL BE GASKETED OR HAVE A SECURE WATERTIGHT LID AND BE PLACED
 AWAY FROM STORMWATER CONVEYANCES AND DRAINS.
 THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF
 MATERIAL FORUSTE.

- HAZARDOUS PRODUCTS:
 THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
 PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 ORIGINAL LABEMAN MATERIAL SAFETY DATA WILL BE RETAINED: THEY CONTAIN IMPORTANT
 IF SUPPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE
 RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES: THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

PETROLEUM PRODUCTS:
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE
MAINTENANCE FOR REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN
TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED
ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FEBRILIZERS.

FEBRILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERRILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE IS STORM WATER. STORACE WILL BE IN A COVERED SHED, THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS:
EXCESS CONCRETE SHALL BE USED IN AREAS DESIGNATED BY THE SITE CONTRACTOR. WASH WATER SHALL BE DISPOSED OF USING BEST MANAGEMENT PRACTICES. BUILDING CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DRUM WASH WATER ASSOCIATED WITH CONCRETE FOR THE BUILDING PAD, SITE CONTRACTOR TO COORDINATE AND PROVIDE BUILDING CONTRACTOR WITH AN AREA FOR DRUM WASH WATER.

SPILL CONTROL PRACTICES:
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE
PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL
PREVENTION AND CLEANUP:

- PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL INTERPREVENTION AND CLEANUP:

 MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PREVENTION AND CLEANUP.

 MAINUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PRESONNED, WILL WILL BE KEPT IN THE INFORMATION AND CLEANUP SUPPLIES.

 MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONISTE, EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVETS, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL, TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

 ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

 HE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE.

 SPILLS RESULT AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE.

 SPILLS RESULT OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.

 "HE SPILL PREVENTION HAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT HIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE.

 PLESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

 THE STILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST THREE OTHER SITLE PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST THREE OTHER SITLE PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST THREE OTHER SITLE PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP FOR SPONSIBLE
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING DATES OF MAJOR GRADING ACTIVITIES, DATES WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORABILY CEASED ON A PORTION OF THE SITE, DATES WHEN WORK IS COMPLETED ON A PORTION OF THE SITE, AND DATES WHEN STABILIZATION MEASURES ARE INITIATED ONSITE.
- 12. THE CONTRACTOR SHALL PERFORM INSPECTIONS OR HAVE A CONSULTING ENGINEER PERFORM INSPECTIONS EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER A STORM OF 0.5" OR GREATER, INSPECTIONS REPORTS ARE TO BE KEPT ON FILE AT THE SITE WITH THIS PLAN. MAINTENANCE OR MODIFICATION SHALL BE IMPLEMENTED AND ADDED TO THE PLAN AS RECOMMENDED BY THE OUALIFIED

TAX MAP 26 LOT 169

STORMWATER MANAGEMENT PLAN MILFORD INDEPENDENT SENIOR HOUSING

54 SCHOOL STREET, MILFORD, NH

OWNED BY/PREPARED FOR

HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: 1" = 20"

MARCH 22, 2021

This plan is not effective unless signed by a duly authorized officer o

CONTACT DIG SAFE 72 BUSINESS HOURS BYING TO CONSTRUCTION

DR CK REV DATE DESCRIPTION

1 48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmgrgn.com

76451.21 | DR | SHP | FD | CK | JK | CADFILE SHEET 9 OF 15 76451-21 SITE

CONSTRUCTION SEQUENCE NOTES

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- 2. CUT AND CLEAR TREES WITHIN AREA OF DISTURBANCE UNLESS OTHERWISE NOTED.
- 3. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES PRIOR TO ANY FARTH MOVING OPERATION.
- . ROUGH GRADE SITE. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
 ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72 HOURS AFTER CONSTRUCTION ACTIVITY CEASES.
 IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21
 DATS, THE AREA SHALL BE STABILIZED.

- AN AREA SHALL BE CONSIDERED STABILIZED IF:

 A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;

 B) A MINIMUM OF 85% VECETATED GROWTH HAS BEEN ESTABLISHED;

 C) A MINIMUM OF 3" OF NON-EROSINE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED, OR

 D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- CONSTRUCT CULVERTS, DETENTION BASINS AND TREATMENT SWALES. PLACE HEADWALLS, RIP—RAP AND OTHER DRAINAGE FACILITIES ACCORDING TO FLUN. "THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS/BASINS PROR TO DIRECTING FLOW TO THEM.
- 6, INSTALL ALL UNDERGROUND UTILITIES.
- 7. CONSTRUCT BUILDINGS.
- CONSTRUCT PARKING AND FINISH GRADE SITE ACCORDING TO PLAN. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
- 9, INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES PERIODICALLY AND IMMEDIATELY AFTER STORM EVENTS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED WITH A SUITABLE STAND OF GRASS, PAVEMENT OR COMPACTED GRAVELS.
- * REFER TO THE STORM WATER MANAGEMENT PLAN FOR EROSION CONTROL MEASURES AND SPECIFIC INFORMATION

GENERAL NOTES

- 1. ALL IN PAVEMENT MANHOLES SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN
- 2. WHERE DEPTH OF COVER IS LESS THAN 3 FEET CLASS V REINFORCEO CONCRETE PIPE SHALL BE USED.
- 3. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.
- 7. REFER TO THE CITY'S STANDARD DETAILS, LATEST REVISION, FOR ADDITIONAL INFORMATION AND CRITERIA
- 8. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING FLOW TO THEM.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5
 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

WINTER CONSTRUCTION

- N ADDITION TO THE OTHER NOTES CONTAINED ON THIS PLAN, THE FOLLOWING MUST BE IMPLEMENTED:
- WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.
- 4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
- IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.
- 6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
- 7. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.

OVERWINTER STABILIZATION

- PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.
- PROPOSED VEGETATED AREAS THAT DO NO EXHIBIT A MINIMUM OF B5 PERCENT VEGETATIVE GROWTH ALL PHOLOUSED VECTOR HELD MADES INFALL DU NO EARHBIT A MINIMUM OF 95 PERCENT VEGLETIVE SECTION AND BY OCCOBER 15, OR WHICH ARE DISTURBED NATER OCCOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSING CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONIS OF MILLOL PER ACKE, SECURED WITH ANACHORED NETHING, ELSEWHERE, THE INSTALLATION OF EROSING NOTHROL BLANKETS OR MULCH AND INCTING SHALL NOT OCCUR OVER ACCUMULATED SHOW OR NO FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAN OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORABILY WITS STONE OR ERGSON CONTROL BLANKETS APPORPATE FOR THE DESION FLOW CONDITIONS.
- DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.
- APPLY HAY MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
- USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND.
- 8. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
- 9. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

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EROSION CONTROL NOTES

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED: 1. INSTALLATION OF SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING
- SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A VEGETATIVE COVER OF GREATER THAN 85%, EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
- 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
- 4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- 5. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

TEMPORARY LAWN MIX: (MIN. 47 LBS/ACRE) 100% ANNUAL RYF

| MILDELOWER_SLOPE_(MHDOT_TYPE_4S) | MIX_31_OR_GREATER_SLOPES (MIN_160_LBS/ACRE);
| 38% CREEPING RED_FESCUE (MIN_60_LBS/ACRE) |
| 32% PERENWIAL_RYEGRASS | (MIN_81_LBS/ACRE) |
| 5% REDITOP |
| 5% ALSINC_CLOVER (MIN_81_LBS/ACRE) |
| 3% BIRONSPOOT_IREFOIL (MIN_81_LBS/ACRE) |
| 3% OXEVE_DAISY (MIN_81_LBS/ACRE) |
| 3% BIACKPUS_DUSAN (MIN_81_LBS/ACRE) |
| 3% BIACKPUS_DUSAN (MIN_81_LBS/ACRE) |
| 3% WILD_LUPINE (MIN_81_LBS/ACRE) |
| 40% ALSINCARE |

GENERAL SLOPE (NHDOT TYPE 44) MIX 3:1 OR GREATER SLOPES (MIN, 150 LBS/ACRE); 44% CREEPING RED FESCUE (MIN, 70 LBS/ACRE)
36% PERRAINAL RYEGRASS (MIN, 80 LBS/ACRE)

(MIN. 70 LBS/ACRE) (MIN. 60 LBS/ACRE) (MIN. 10 LBS/ACRE) (MIN. 10 LBS/ACRE) (MIN. 10 LBS/ACRE) (MIN. 10 LBS/ACRE) 6% BIRDSFOOT TREFOIL

- PLACING LOAM ON SITE

 a. ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE
 INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM.
 PLACE LOAM TO FORM A MINIMUM DEPIH OF 4"WHEN ROLLED, LUESS OTHERWISE, INDICATED.
 ALL DEPRESSIONS EXPOSED DERMO THE ROLLED SHALL BE FILLED WITH ADDITIONAL LOAM.

- SEED BED PREPARATION
 AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED
 TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE
 OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO
 GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS
 AFTER THE SEEDBED HAS BEEN PREPARED.
- 6. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2. TON'S PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
- 7. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE AUCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 8. FERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREA AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
- 9. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.

STOCKPILE NOTES

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER,
 DRAINAGE COURSES AND INJETS.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
- 3. STOCKPILES SHOULD BE SURROUNDED BY SEDIMENT BARRIERS, SUCH AS SILT FENCE OR SILT SOCK, TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.
- 4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED WATERIAL
- 5. PLACE BAGGED MATERIALS ON PALLETS AND UNDER COVER.

- 6. INACTIVE STOCKPILES

 a. INACTIVE SOIL STOCKPILES \$HOULD BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY PRACTICE) AND TEMPORARY PERMETER SEDIMENT BARRIERS AT ALL TIMES.

 b. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPAIL CONCRETE RUBBLE, AGGREGATE MATERIALS AND OTHER SIMILAR MATERIALS SHOULD BE PROTECTED WITH TEMPORARY SEDIMENT PERMETER BARRIERS AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHOULD ALSO BE COVERED.
- 7. ACTIVE STOCKPILES

 a. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMODATE THE DEJUYERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
 b. WHEN A STORM EVENT IS PREDICTED, STOCKPILES SHOULD BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERNO.

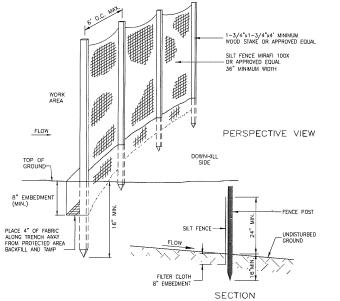
FLOW TOP OF GROUND -NOTES 1. SILT SOCK SHALL BE FILTREXXIN SILTSOXXIN OR APPROVED EQUIVALENT SEE SPECIFICATIONS FOR SOCK SIZE AND COMPOST FILL REQUIREMENTS.

SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED AS NEEDED.

COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.

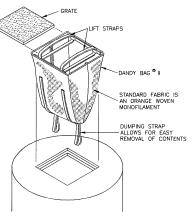
SILT SOCK

NOT TO SCALE



SILT FENCE

NOT TO SCALE



INSTALLATION

INSTALLIATION

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG PSO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

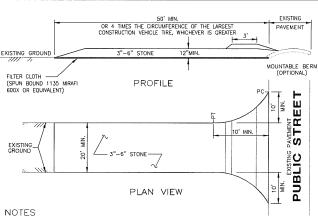
MAINTENANCE

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY BAG II. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPIRED. TO EMPTY UNIT, LITT THE UNIT OF OF THE INTERT USING THE LIFTING STRAFS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY BAG® II

NOT TO SCALE

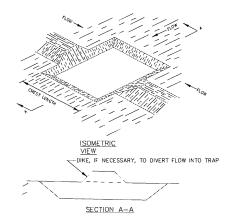




- 1. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE SURFACE.
- 2. WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 3. MAINTENANCE THE 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 DEVAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, OROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 4. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED ESCIMENT TRAPPING DEVICE.
- 5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN STORM EVENT

USDA - SCS STABILIZED CONSTRUCTION ENTRANCE

SEE PLAN FOR PROPOSED LOCATION



- SPECIFICATIONS —
 TEMPORARY SEDIMENT TRAPS SHOULD MEET THE FOLLOWING REQUIREMENTS:
 SEDIMENT TRAPS SHOULD BE LOCATED SO THAT THEY CAN BE INSTALLED PRIOR TO DISTURBING THE AREA THEY ARE TO PROTECT.
 THE TRAP SHOULD BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIGIE
 THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHOULD BE LESS THAN 5 ACRES.
 THE MINIMUM VOLUME OF THE TRAP SHOULD BE 3,500 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
 THE SIDE SLOPES OF THE TRAP SHOULD BE 3,100 FLATTER, AND SHOULD BE STABILIZED IMMEDIATELY AFTER THE CONSTRUCTION.

- **EXCAVATED EARTH OUTLET**

SEDIMENT TRAP DETAIL

DETAIL SHEET MILFORD INDEPENDENT

TAX MAP 26 LOT 169

SENIOR HOUSING 54 SCHOOL STREET, MILFORD, NH

OWNED BY/PREPARED FOR HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: AS SHOWN

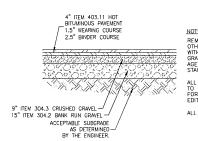
MARCH 22, 2021



48 Canstitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmgran.com

76451.21 DR SRP FB - CK JK CADFILE 76451-21 COVER-DETAILS

SHEET 10 OF 15



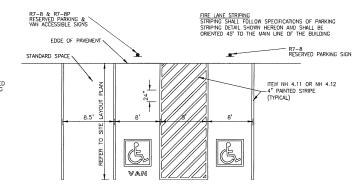
TYPICAL PAVEMENT SECTION

REMOVE ALL LOAM, CLAY, MUCK, STUMPS, AND OTHER IMPROPER PAYEMENT FOUNDATION MATERIAL WITHIN 2 '05 FSUBGRABE. REPLACE WITH COMPACTED GRANULAR FILL MATERIAL ACCEPTABLE TO APPROVING AGENCY. COMPACTION TO BE AT LEAST 95% OF STANDARD PROCTOR.

ALL PAVEMENT, BASE MATERIALS AND WORKMANSHIF O BE IN COMPLIANCE WITH N.H.D.O.T. "STANDARDS OR ROAD AND BRIDGE CONSTRUCTION" LATEST

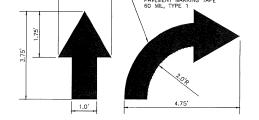
ALL PAVEMENT TO MEET AASHOT H-20 LOADING.

NOT TO SCALE



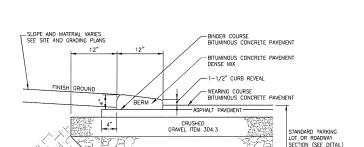
PARKING STRIPING DETAIL

PAINTED HANDICAP SYMBOL



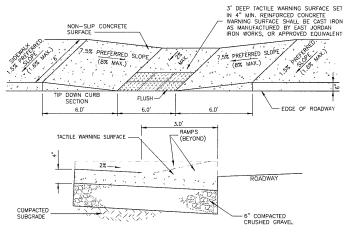
TRAFFIC FLOW ARROW

NOT TO SCALE



CAPE COD BERM

NOT TO SCALE

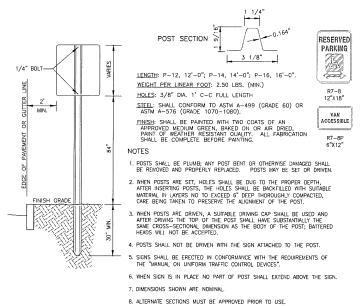


ACCESSIBLE RAMP RECESSED IN WALK

WITH DETECTABLE WARNING SURFACE (CAST IRON)

C.M. TO FURNISH AND INSTALL 2" THICK INSULATED

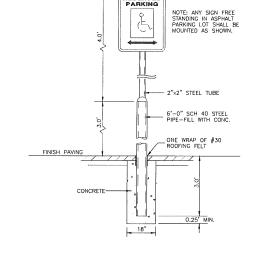
INSTALLED PER



TRAFFIC SIGN POST IN GRADE

NOT TO SCALE

NOT TO SCALE

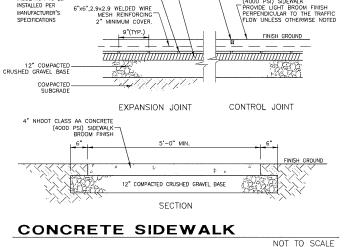


SIGN POLE IN PAVEMENT

2' MINIMUM CUTBACK AT TOP OF TRENCH WALL OVER UNDISTURBED MATERIAL. PLAN MILL & INLAY 100 L.F. ON EACH SIDE OF TRENCH CUT ITEM 403.11 HBP, MM, HIGH STRENGTH PAVEMENT FOR INLAY 18" CRUSHED (NOTE 2) MILL & INLAY 100 L.F. ON EACH SIDE OF TRENCH CUT ITEM 403.11 HBP, MM, HIGH STRENGTH PAVEMENT FOR INLAY SECTION

PAVEMENT TRENCH PATCH

is plan is not effective unless signed by a duly authorized officer a omos F. Moran, Inc.



NHDOT CLASS AA CONCRETE (4000 PSI) CONCRETE PAYEMENT WIRE MESH REINFORCEMENT
(MIN. SPACING 6"x6"-W2.9xW2.9) ASPHALT PAVEMENT CRUSHED GRAVEL 144 BANK RUN GRAVEL ITEM 304.2 - COMPACTED SUBGRADE

TAX MAP 26 LOT 169 **DETAIL SHEET** MILFORD INDEPENDENT SENIOR HOUSING 54 SCHOOL STREET, MILFORD, NH

OWNED BY/PREPARED FOR

HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: AS SHOWN

MARCH 22, 2021





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SHEET 11 OF 15

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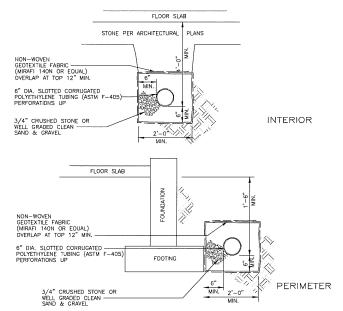
TOOLED CONTROL JOINT 1/4 TIMES THE -DEPTH OF THE SLAB WITH 2" WIDE SMOOTH STRIP ON EACH SIDE. 5' O.C. ALONG WALKWAY

4" NHDOT CLASS AA CONCRETE (4000 PSI) SIDEWALK
PROVIDE LIGHT BROOM FINISH
PERPENDICULAR TO THE TRAFFIC
FLOW UNLESS OTHERWISE NOTED

NOT TO SCALE

CONCRETE CURB AT SIDEWALK

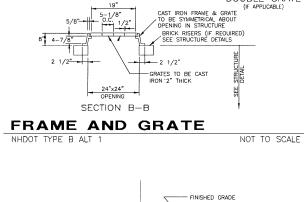
Phone (603) 472-4488



FOUNDATION UNDERDRAIN

NOT TO SCALE

2-13/16 C-C



29"

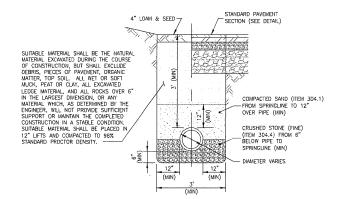
PLAN VIEW SINGLE GRATE

19"

FOR DOUBLE GRATE, OMIT FLANGE ON ONE SIDE ON EACH FRAME

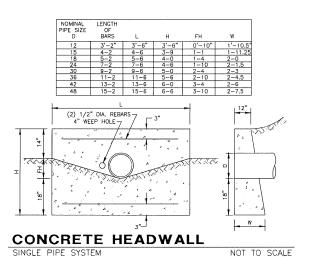
CAST IRON FRAME & GRATE

PLAN VIEW DOUBLE GRATE



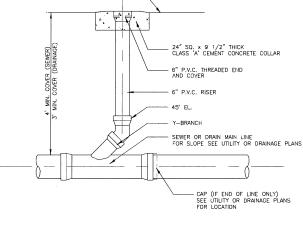
STORM DRAIN TRENCH

NOT TO SCALE



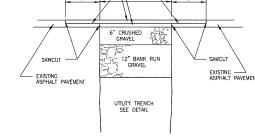
CONTACT DIG SAFE 72 BUSINESS HOURS PROR TO DIVISION INCOME.

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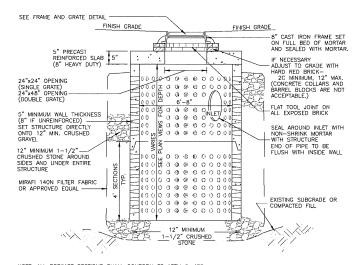


SEWER OR DRAINAGE CLEAN OUT

" CRUSHED GRAVEL



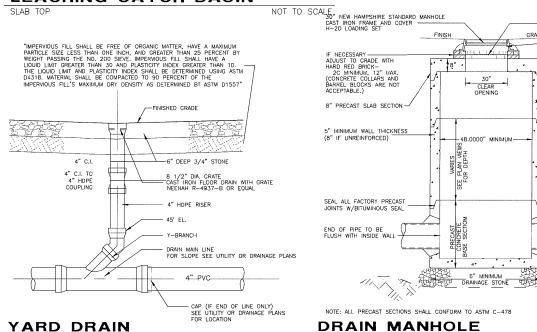
PAVEMENT TRENCH PATCH FLUSH NOT TO SCALE



NOTE: ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SUPERIOR CONCRETE CO. CIRCULAR LEACHING CATCH BASIN OR APPROVED EQUAL (H20 LOADING)

REV DATE

LEACHING CATCH BASIN



NOT TO SCALE SLAB TOP

DR CK

DESCRIPTION

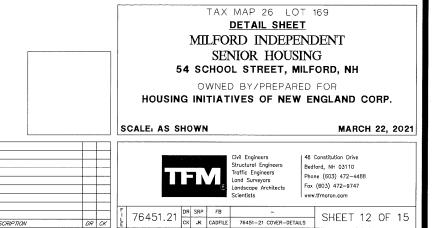
NOT TO SCALE

FLAT TOOL JOINT ON ALL EXPOSED BRICK CAST IRON FRAME SET — ON FULL BED OF MORTAR AND SEALED WITH MORTAR

NOTE:
ALL SECTIONS SHALL BE
CONCRETE CLASS AS
(4000 PS), CIRCUMFERENTIAL
REINFORCEMENT SHALL BE
0.12 SO. IN, PER L.F. IN ALL
SECTIONS AND SHALL BE
PLACED IN THE CENTER
THIRD OF THE WALL.
THE TONGUE OR THE
GROOVE OF THE JOINT
SHALL CONTAIN ONE LINE
OF CIRCUMFERENTIAL
TO 0.12 SO. IN, PER L.F.

SEAL AROUND PIPES WITH - NON-SHRINK MORTAR FLUSH WITH STRUCTURE

EXISTING SUBGRADE OR COMPACTED FILL





MINIMUM SIZE PIPE FOR SEWER SERVICE SHALL BE FOUR INCHES.

PIPE AND JOINT MATERIALS:
 A. PLASTIC SEWER PIPE
 1. PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

ASTM	GENERIC PIPE	SIZES
STANDARDS	MATERIAL	APPROVED
D3034 F679 F789 F794 D2680	*PVC (SOLID WALL) PVC (SOLID WALL) PVC (SOLID WALL) PVC (RIBBED WALL) *ABS (COMPOSITES WALL)	8" THROUGH 15" (SDR 35) 18" THROUGH 27" (T-1 & T-2) 4" THROUGH 18" (T-1 TO T-3) 8" THROUGH 36" 8" THROUGH 15"

*PVC: POLY VINYL CHLORIDE
*ABS: ACRYLONITRILE-BUTADIENE-STYRENE

JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON, BELL AND SPIGOT TYPE.

ABS TRUSS PIPE AND FITTINGS SHALL CONFORM TO ASTM D-2680, POLYMER COMPOUNDING SHALL BE TO ASTM D-1788 (CLASS 322).

JOINTS FOR ABS TRUSS PIPE SHALL BE CHEMICAL WELDED COUPLINGS TYPE SC IN ACCORDANCE WITH ASTM D-2680, FORMING A CHEMICAL WELDED JOINT.

B. DUCTILE-IRON PIPE, FITTINGS AND JOINTS.

DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE: A21.50 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 DUCTILE IRON CASTINGS.

A21.51 DUCTILE IRON PIPE, CENTIFIFUGALLY CAST IN METAL MOLDS OR A21.51 DUCTILE IRON PIPE, CENTIFIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.

JOINTS SHALL SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.
SHALL CONFORM THE MECHANICAL OR PUSH-ON TIPE. JOINTS AND GASKETS SHALL CHOPTER.

A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS.

3) DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.

4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER— TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.

TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN EES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE ENTITY OF STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE, FOLLOWING MANUFACTURERS' INSTRUCTIONS USING A BOLTED, CLAMPED OR FEVXY-CEMENTED SADDLE TAPPED INTO A SOUTHLY DRILLED OR SAWN DEFINING AND THE SEWER. THE PRACTICE OF BEARING AN OPENING WITH A SLEDGE HAMMER, STUFFING CLOTH OR OTHER SUCH MATERIAL ARQUIND THE JOINT, OR APPLYING MORTAR TO HOLD THE CONNECTION, AND DAY OTHER SMILLAR CANDED PRACTICES OR INPLY OR MATERIAL THROWASTIONS WILL NOT BE PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP TO AND INCLUMING 15" DIMARCHISTON SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP TO AND INCLUMING 15" DIMARCHISTON.

) SEWER SERVICE INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION CUIDES OF THE PRPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 6 INCH LAYER OF CRUSHED STONE AND/OF GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND RE-FILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHTY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.

THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4" INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEVARIER HERECH.

TESTING: THE COMPLETED SEWER SERVICE SHALL BE SUBJECTED TO A LEAKAGE TEST IN ANY OF THE FOLLOWING MANNERS: (PRIOR TO BACKFILLING)

A AM OBSERVATION TEE SHALL BE INSTALLED AS SHOWN AND WHEN READY FOR TESTING, AN INFLATABLE BLADDER OR PLUG SHALL BE INSERTED JUST UPSTREAM FROM THE OPENING IN THE TEE. AFTER INFLATION, WATER SHALL BE INTRODUCED INTO THE SYSTEM ABOVE THE PLUG TO A HEIGHT OF 5 FEET ABOVE THE LEVEL OF THE PLUG.

B. THE PPE SHALL BE LEFT EXPOSED AND LIBERALLY HOSED WITH WATER, TO SIMULATE, AS NEARLY AS POSSIBLE, WET TRENCH CONDITIONS OR, IF TRENCH IS WET, THE GROUND WATER SHALL BE PERMITTED TO RESE IN THE TERENCH OVER THE PIPE. INSPECTIONS FOR LEAKS SHALL BE MADE THROUGH THE CLEANOUT WITH A FLASHLIGHT.

. DRY FLUORESCENE DYE SHALL BE SPRINKLED INTO THE TRENCH OVER THE PIPE. IF THE TRENCH IS DRY, THE PIPE SHALL BE LIBERALLY HOSCD WITH WATER, OR IF THE TRENCH IS WET, GROUND WATER SHALL BE PERMITED TO RISE. IN THE TRENCH OVER THE PIPE. DBSERVATION FOR LEAKS SHALL BE MADE IN THE FIRST DOWN—STREAM MANHOLE.

LEAKAGE OBSERVED IN ANY ONE OF THE ABOVE ALTERNATE TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE AND THE PIPE SHALL BE DUG-UP IF NECESSARY AND RE-LAID SO AS TO ASSURE WATER TIGHTNESS.

ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM TOILETS, SINKS, LAUNDRY ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.

) WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE.

D) BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C33-67.

0%-100% PASSING 3/4 INCH SCREEN 20%-55% PASSING 3/8 INCH SCREEN 0%-10% PASSING #4 SIEVE 0%-5% PASSING #8 SIEVE 90%-100% PASSING 20%-55% PASSING

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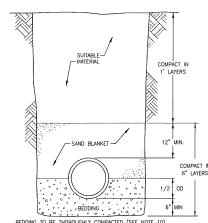
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WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1 1/2 INCH SHALL BE USED.

1) LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPETRIOER.

12) CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE SEWER CONNECTION. CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER MAY BE USED IF APPROVED BY THE MONIER.

CONTACT DIG SAFE 72 BUSINESS



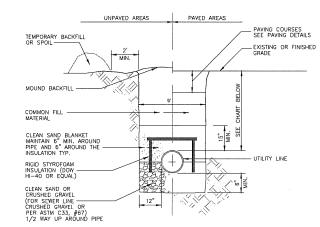
6" MIN ALL AROUND -

(SEE NOTE 11)

TRENCH CROSS-SECTION

CHIMNEY (SEE NOTE 12)

BACKFILLING TO BE BROUGHT UP EVENLY ON ALL SIDES.

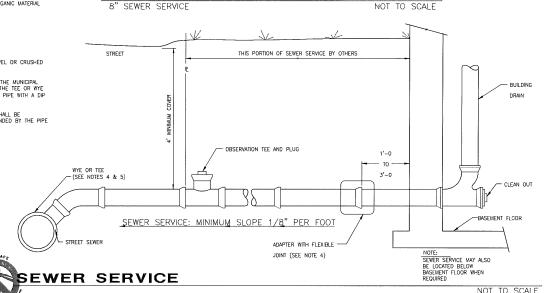


UTILITY	MINIMUM	PIPE COVER
	PAVED AREAS	UNPAVED AREAS
SANITARY SEWER MAIN	6'	4'

NOTE:

W=MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES ! FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D. W SHALL ALSO BE PAYMENT WIDTH FOR LEDGE EXCANATION AND FOR ORDERED EXCANATION BELOW GRADE.

PIPE INSULATION



GRAVITY SEWER NOTES

MINIMUM SIZE PIPE FOR GRAVITY SEWER SHALL BE 8-INCHES.

*PVC: POLY VINYL CHLORIDE

2. PIPE AND JOINT MATERIALS FOR PLASTIC SEWER PIPE SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

SIZES APPROVED ASTM STANDARDS 8" THROUGH 15" (SDR 35) 18" THROUGH 27" (T-1 & T-2) 8" THROUGH 36" D3034-04a PVC (SOLID WALL)
 PVC (SOLID WALL) F794-03 PVC (RIBBED WALL) F1750-01(2005)e1 PVC, RECYCLED ALL DIAMETERS

3. PLASTIC SEVER PIPE SHALL HAVE A PIPE STIFFNESS RATING OF AT LEAST 46 POUNDS PER SOUARE INCH AT 5 PERCENT PIPE DIAMETER DEFLECTION, AS MEASURED IN ACCORDANCE WITH ASTM D2412-02 DURING MANUFACTURE.

4. JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212-96(a)(2003)e1 AND SHALL BE PUSH-ON, BELL AND SPIGDT TYPE

DUCTLE-IRON PIPE, FITTINGS AND JOINTS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA).

AWWA C151/A21.51-02 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536-84 (2004) DUCTILE IRON CASTINGS.

AWWA C151/A21.51-O2 DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.

JOINTS SHALL BE OF THE MECHANICAL OR PUSH-ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO AWWA C151/A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS.

6. CONCRETE PIPE SHALL CONFORM TO AWWA C302-04.

7. PRESTRESSED CONCRETE CYLINDER PIPE AND FITTINGS SHALL CONFORM TO AWWA C301-99.

JOINTS SEALS FOR CONCRETE CYLINDER PIPE SHALL BE OIL RESISTANT ELASTOMERIC MATERIAL CONFORMING TO ASYWA C301-99 SPECIFICATIONS.

B. DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.

9. GRAVITY SEWER PIPE TESTING SHALL BE AS FOLLOWS:

ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.

LOW PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH:

ASTM F1417-92(2005) "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR".

UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW PRESSURE AIR TESTING OF INSTALLED SEVER PIPE".

10. ALL NEW GRAVITY SEVERS SHALL BE CLEANED AND VISUALLY INSPECTED AND SHALL BE TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE.

11. ALL PLASTIC SEWER PIPE SHALL BE DEFLECTION TESTED NOT LESS THAN 30 DAYS FOLLOWING INSTALLATION.

12. THE MAXIMUM ALLOWARIE DEFICTION OF FLEXIBLE SEWER PIPE SHALL BE 5 PERCENT OF THE AVERAGE INSIDE DIAMETER

TRENCH DIMENSIONS FOR SEWER PIPE LESS THAN 15 INCHES IN DIAMETER, THE ALLOWABLE TRENCH WIDTH AT A PLANE 12 INCHES ABOVE THE PIPE 15 INCHES AND LARGER, THE ALLOWABLE WIDTH SHALL BE GOVALL TO THE PIPES OUTSIDE DIAMETER PLUS 24 INCHES.

PIPE TERNCH BEDDING MATERIAL AND FILL MATERIIAL FOR EXCAVATION BELOW GRADE SHALL BE SCREENED GRAVEL OR CRUSHED STONE TO ASTAL 633-03 STONE SIZE NO. 67. THE PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND FREE FROM ANY ORGANIC MATERIALS, GRADED SUCH THAT 10D PERCENT PASSED THE 1/2-INCH SIEVE AND A MAXIMUM OF 15 PERCENT PASSES A \$200 SIEVE. IN LEU OF A SAND BLANKET, A STONE ENVELOPE 6 INCHES THICK COMPLETELY AMOUND THE PIPE USING 3/4-INCH STONE MAY BE USED.

PIPE BEDDING MATERIAL SHALL EXTEND FROM A HORIZONTAL PLANE THROUGH THE PIPE AXIS TO 6-INCHES BELOW THE BOTTOM OF THE CUTSIDE SURFACE OF THE PIPE.

PIPE SAND BLANKET MATERIAL SHALL COVER THE PIPE A MINIMUM OF 12 INCHES ABOVE THE CROWN OF THE OUTSIDE SURFACE.

COMPACTION SHALL BE IN 12-INCH LAYERS FOR BEDDING AND BLANKET MATERIALS.

TRENCH BACKFILL MATERIAL IN ROADWAY LOCATIONS SHALL BE NATURAL MATERIALS EXCAVATED FROM THE TRENCY DURING CONSTRUCTION, EXCLUDING DEBRIS, PAYEMENT PIECES, ORGANIC MATTER, TOP SOIL, WET DR SOFT MUCK, PEAT, CLAY, EXCAVATED LEDGE, ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION, OR ANY OTHER UNSUITABLE MATERIAL NOT APPROVED BY THE EXCINEER.

TRENCH BACKFILL AT CROSS-COUNTRY LOCATIONS SHALL BE AS DESCRIBED ABOVE EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLE RECONSTRUCTION, WHEN NECESSARY WILL BE PRESERVED. BACKFILL SHALL BE MOUNDED 6—INCHES ABOVE ORIGINAL CONTINUED TO THE PROPERTY OF THE PRO

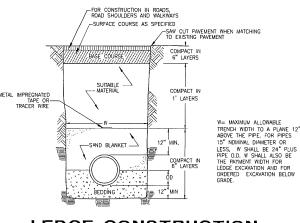
BASE COURSE MATERIALS FOR TRENCH REPAIRS SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

WHERE SHEETING IS PLACED ALONG SIDE OF THE PIPE AND EXTENDS BELOW MID-DIAMETER, THE SHEETING SHALL BE CUT OFF AND LET IN PLACE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE AT LEAST 3 FEET BELOW FINDS (GRADE.

TRENCHES FOR SEWER PIPES WITH SLOPES OVER 0.08 FEET PER FOOT AND TRENCHES FOR SEWER PIPES BELOW THE SESSONAL HIGH GROWND WATER LEVEL SHALL HAVE IMPERMIOUS TRENCH DAWS CONSTRUCTED EVERY 300 FEET TO PREVENT POTENTIAL DISTURBANCE TO PIPE DEDIDING AND BUANKET MATERIALS.

FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6" ABOVE THE ORIGINAL GROUND SURFACE. SUITABLE -COMPACT IN 1' LAYERS METAL IMPREGNATED TAPE OR-TRACER WIRE - SAND BLANKET -W= MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" ABOVE THE PIPE. FOR PIPES 15" NOMINAL DIAMETER OR COMPACT IN 6" LAYERS LESS, W SHALL BE 24" PLUS PIPE O.D.

EARTH CONSTRUCTION



LEDGE CONSTRUCTION

TAX MAP 26 LOT 169 **DETAIL SHEET**

MILFORD INDEPENDENT SENIOR HOUSING 54 SCHOOL STREET, MILFORD, NH

OWNED BY/PREPARED FOR

HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: AS SHOWN

MARCH 22, 2021



DR CK

Structural Engineer Traffic Engineers and Surveyors ndscape Architects

I 48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fox (603) 472-9747 www.tfmoran.com

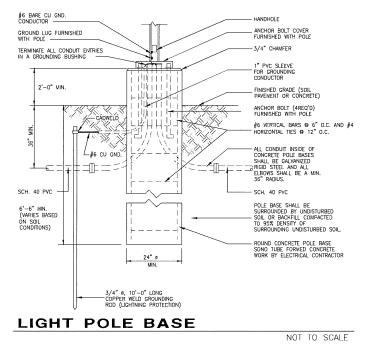
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SHEET 13 OF 15

SEWER SERVICE DETAILS

DESCRIPTION

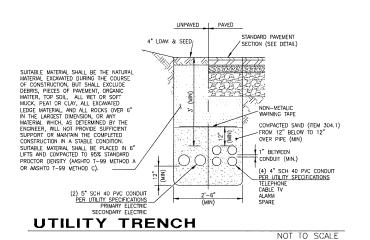
REV DATE

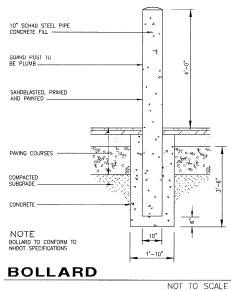


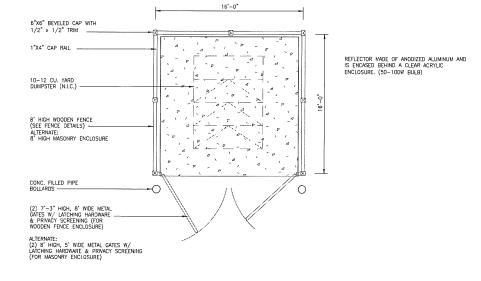
BIT PAVEMENT NOTES FIXTURES MUST BE GROUNDED IN ACCORDANCE WITH LOCAL ELECTRICAL CODES, OR THE NATIONAL ELECTRICAL CODE. RIGID CONDUIT - 3500 PSI CONCRETE LIGHTING SHOWN HERE IS AREA LIGHTING, SUPPLEMENTAL BUILDING—MOUNTED FIXTURES AT DOORWAYS, ETC. MAY BE REQUIRED. -FILL BASE OF AUGER HOLE WITH CRUSHED STONE, WELL GRADED WITH NO FINES. 4. SEE LIGHTING PLAN FOR FIXTURE SCHEDULE.

LAMP AND POST

NOT TO SCALE

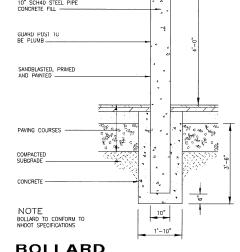






DUMPSTER ENCLOSURE - WOOD

NOT TO SCALE



TAX MAP 26 LOT 169

DETAIL SHEET MILFORD INDEPENDENT SENIOR HOUSING

54 SCHOOL STREET, MILFORD, NH

OWNED BY/PREPARED FOR

HOUSING INITIATIVES OF NEW ENGLAND CORP.

SCALE: AS SHOWN

MARCH 22, 2021





1 48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

76451.21 DR SRP FB - CK JK CADFILE 76451-21 COVER-DETAILS

SHEET 14 OF 15

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