



# RESIDENTIAL SITE PLAN APPLICATION (townhouses, apts., etc.) City of Rochester, New Hampshire

Date:1-8-19	office use only. fee paid	amount \$	date paid	]
Property information  Tax map #: _256A; Lot #('s)				
Property address/location: Atl	nenian Drive			
Name of project (if applicable): _	Village At Clark Brook			
Size of site: acres; ove	rlay zoning district(s)? _	PUD-4		
Property owner  Name (include name of individual Mailing address:1662 Elm Street)				
Telephone #: 603-669-6194				
Applicant/developer (if differ Name (include name of individua		ıer		
Mailing address:				
Telephone #:	Fax #	ŧ:	•	
Engineer/designer Name (include name of individua Mailing address: 177 East Industr		_	Consultants, Inc	с.
Telephone #:603-622-5533	Fax :	#: <u>603-622-474</u>	10	
Email address:bobb@bedfordde				
Proposed use The applicant is not bound by informatic approval.	n on bedrooms and ownersh	nip arrangement ur	nless that is a con	dition of
Total number of proposed dwellin	g units: <u>74</u> ; num	ber of existing of	dwelling units:	_0
Proposed bedrooms/unit: _varies,	see narrative ; total nur	nber of propose	ed bedrooms:	156

New building(s)? Y addition(s)/modifications	to existing building(s	)? _ N
Townhouses/rowhouses: 14 flats: 60 duplexe	es:_0_ freestanding	detached units:
Proposed ownership - leasehold: fee simple		
Utility information		_
City water? yes $\underline{x}$ no $\underline{\hspace{0.2cm}}$ ; How far is City wa	ter from the site? >	1 mile
City sewer? yes no $\underline{x}$ ; How far is City sev		
f City water, what are the estimated total daily nee		
Where will stormwater be discharged? _stormwater		
Other information		
t parking spaces: existing: 0 total proposed:	9 (not including drivew:	ay & garages)
Describe existing conditions/use (vacant land?):	vacant single family for	5
heck any that are proposed: variance $N$ ; spe		
Check any that are proposed: variance $N_{}$ ; spectral spectrum of the spectr	illed:; b	ouffer impact? N
Check any that are proposed: variance $N$ ; spectral spectrum (N); spectral spectrum (N); area to be formula to the spectrum (N); area	illed:; b	ouffer impact? N
Check any that are proposed: variance $N$ ; spectral spectrum (N); spectral spectrum (N); area to be formula to the spectrum (N); area	illed:; b	tal 100%)
Check any that are proposed: variance N; spectral spectral spectrum (N); spectral spectrum (N); area to be formula spectrum (N); are	illed:; b	tal 100%)  % overall site
Check any that are proposed: variance $N_{\rm c}$ ; spectral spectrum of the spe	illed:; b	tal 100%)  **Mark overall site**  10
Check any that are proposed: variance N; specific specifi	illed:; b	tal 100%)  **Moverall site**  10  20
Check any that are proposed: variance N_; specific specif	illed:; b ion of site (should to  Square footage  37,500  84,900  141,500	tal 100%)  **Moverall site**  10  20  34
Check any that are proposed: variance N_; specifically sp	illed:; b ion of site (should to  Square footage  37,500  84,900  141,500  150,923	tal 100%)  **Noverall site*  10  20  34  36
Check any that are proposed: variance N_; specifically sp	illed:; b ion of site (should to  Square footage  37,500  84,900  141,500  150,923  0  0	tal 100%)  **Noverall site**  10  20  34  36  0
Check any that are proposed: variance N_; specifically sp	illed:; b ion of site (should to  Square footage  37,500  84,900  141,500  150,923  0  0  414,823	tal 100%)  **Noverall site**  10  20  34  36  0  0
Check any that are proposed: variance N_; specifically sp	illed:; b ion of site (should to  Square footage  37,500  84,900  141,500  150,923  0  0  414,823  formation, or requests	tal 100%)  **Noverall site**  10  20  34  36  0  0  s for waivers here:

`

		4
		1

(continued Residential Site Plan application Tax Map: Lot:)
<b>Submission of application</b> This application must be signed by the property owner, applicant/developer (if different from property owner), <i>and/or</i> the agent.
I(we) hereby submit this Site Plan application to the City of Rochester Planning Board pursuant to the City of Rochester Site Plan Regulations and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.  Signature of property owner:  Date:  Date:
Signature of agent:
Authorization to enter subject property  I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.  Signature of property owner:  Date:
Page 3 (of 3 pages) See attached author zat on John

4--



177 East Industrial Park Drive Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com

January 8, 2019

Planning Board City of Rochester 31 Wakefield St Rochester, NH 03867



RE: The Village at Clark Brook Redesign 2019

Athenian Drive Rochester, NH

Tax Map 256A Lot 66-F, 66-G, 66-H, 66-M, 66-65, and 66 (open space)

Members of the Board,

Bedford Design, on behalf of our client, CBDA Development, is pleased to submit this application for the redesign of the Village at Clark Brook. The redesigned Site Plans are based on the recently approved PUD Amendment for the Village at Clark Brook.

At the time of this submittal, the Public portion of the main access drive, Athenian Way, has been completed up to the Asteria Lane private access drive into the four existing apartment buildings. This includes the open bottom box culvert and stream crossing. The wetland permit has been completed and the redesign will not disturb any wetlands. The remaining portions of roadway associated with the previously approved project have been cleared and rough-graded. The four apartment buildings have been built and are all open for occupancy. Homer Way, the cul-de-sac by the entrance, has been rough-graded. The associated drainage and septic systems for the apartments have been installed for the portions of the project which are built. An 8-inch diameter water line has been extended up Old Dover Road and into the project. The NHDOT roadway improvements along Old Dover Road have been completed. We will be applying for State Subdivision and NHDES Alteration of Terrain and Septic Approvals for the Redesign.

As a first step in the Village at Clark Brook redesign, we have already submitted Lot Line Adjustment and Lot Consolidation Plans to the City. The attached Site Plan shows the lots based on these submitted plans. The Site Plan redesign focuses along the last half of Athenian Drive where single-family homes were originally proposed and approved. The existing intersection of Asteria Lane (Private) and Athenian Drive (Public) will be improved to include a turnaround for emergency vehicles and snow plows. The proposed turnaround will mark the end of the Public Roadway.

		:

Along the first section of the proposed private roadway will be 14 condominium townhomes. Following the Townhomes will be two, 30-unit, apartment buildings and associated parking. The private drive will continue through the new apartment parking lot and up the hill to connect with the existing apartments. This will form a loop road. The Site Plans also show a dog park near the Athenian Drive turnaround. Two traffic islands are proposed along the private road to allow for traffic calming.

As part of the redesign we have provided a new unit breakdown. The first breakdown is from the 2012 approval, the second breakdown is our proposed redesign. The chart shows we do not exceed our bedroom or units counts (2019 Changes are noted in orange).

# Proposed PUD Unit and Bedroom Breakdown

# May 7, 2012

Type of Unit	Unit Count	Bedroom Count
Duplex Units	18	36 to 54
Live-Work Units	3	9 to 12
Single Family & Little Quarry	44 to 50 & 23	207 to 269
Apartment Units	144 to 174	288 to 319

Maximum Allowed	262	571

# January 8, 2019 Site Plan

Type of Unit	Unit Count	Bedroom Count
Duplex Units	16	54
Single Family in Little Quarry	23	69
Apartment Units - Buildings A-D	144	276
Live/Work	5	15
Townhomes	14	42
Buildings E & F	60	114

Total Proposed	262	568
Maximum Allowed from 2007 PUD	262	571

# Building E & F Breakdown (both buildings)

Type	Number of Beds
One Bedroom	24
Two Bedroom	36
Three Bedroom	54
Total	114

Since the construction of the apartment buildings, it has come to our attention that there may be parking issues at the entrance of the project during school bus drop off and pick up time. We met with the school superintendent's office to discuss a bus stop near the proposed Athenian Drive turnaround; however, the school's policy only allows the bus to stop on Old Dover Road. As a possible solution to the existing parking issues we are proposing construction of five parking spaces along Athenian Drive at the project entrance. This design is located on the last page of the site plans. We are proposing five parallel parking spaces to allow cars to park off the road while they wait for the bus.

At the PUD Amendment hearing a traffic study from a traffic engineer was requested. This analysis is included in our submittal package.

We look forward to reviewing the Village at Clark Brook Redesign with the Board, and answering any questions. Please feel to contact me at 603-622-5533 or at <a href="mailto:BobB@BedfordDesign.com">BobB@BedfordDesign.com</a>.

Sincerely,

Bedford Design Consultants, Inc.

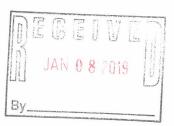
Katherine A. Weiss, PLA, ASL

Project Manager



177 East Industrial Park Drive Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com

January 8, 2018



Rochester Planning Board 31 Wakefield St. Rochester, NH 03867

RE: Waiver Request – Additional Abutter Information on Plan Set

The Village at Clark Brook Redesign 2019
Athenian Drive, Map 256A Lots 66, 66-65, 66-F, G, & H

Members of the Board,

Bedford Design Consultants, on behalf of our client CBDA Development, LLC. is requesting a waiver from the requested abutter lot information. For the purposes of this site plan submittal, we have not shown the abutting parcels (lots outside the open space). The lots shown on our site plan are all owned by the developer. Lot 66 (open space) will not have any buildings located within it, which means abutting lots are 500 feet away from the apartments and townhomes.

If you have any further questions, please feel free to contact us at 622-5533. We look forward to discussing our application with you at the next Planning Board meeting.

Sincerely,

Bedford Design Consultants, Inc.

Katherine A. Weiss, PLA, ASLA

**Project Manager** 

# TES Environmental Consultants, LLC

December 3, 2018

Ref: TES JN 18-0092

Ms. Kate Weiss, PLA, ASLA Bedford Design Consultants, Inc. 6 East Industrial Park Drive Manchester, NH 03104

Re: Environmental Services (Wetland Boundary Confirmation)
Village at Clark Brook; Off Old Dover Road, Rochester

Dear Ms. Weiss:

TES Environmental Consultants, L.L.C. (TES) has completed the site investigation that you requested on the above-referenced parcel in Rochester, New Hampshire. This investigation, which consisted of a field review of existing wetland boundaries to confirm their current accuracy in two general areas identified on a site plan forwarded by you, was completed on November 29, 2018. I had previously delineated the site wetlands in 2011-2012 as an employee of Schauer Environmental Consultants, LLC, and so have considerable familiarity with the site wetlands.

The wetland identification was performed according to the methodology presented in the <u>Corps of Engineers Wetland Delineation Manual (Technical Report Y-87-1)</u>, <u>January 1987</u> and the <u>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region</u>, Version 2.0, January 2012, US Army Corps of Engineers. This methodology requires the presence of indicators for the three parameters: hydric soils, hydrophytic vegetation and evidence of hydrology at or near the surface for 14 days during the growing season.

Overall, the wetland boundaries in the two areas - a proposed stormwater basin in the west-central portion of the site and a proposed septic system location in the southeastern portion of the property - were found to be unchanged from the 2011-2012 timeframe. I observed numerous wetland boundary flags (or their remnants) that I placed during the previous delineation, and I would not change the wetland boundaries in any portion of the vicinity of the proposed work. I observed the culverted wetland crossing by gravel road used to access the recently-constructed septic system north of the proposed system(s), which was permitted (DES File# 2012-02882) previously. I also noted that in the area of the proposed stormwater basin, portions of the uplands have been regraded and excavated, creating a basin that in time will likely develop into a wetland (it is presently mostly bare soil with surface water and ice, but sparse vegetation) in the coming years if not regraded.

Please feel free to call with any questions regarding this report.

Sincerely,

Thomas E. Sokoloski

New Hampshire Certified Wetland Scientist #127

SOKOLOSKI No. 127

1494 Route 3A, Unit 1, Bow, New Hampshire 03304
Phone: 603-856-8925 E-Mail: tom@tesenviro.comcastbiz.net

12/3/2018

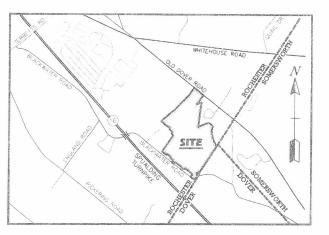
# THE VILLAGE AT CLARK BROOK 2019 REDESIGN SITE PLAN

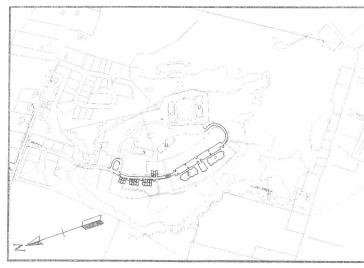
LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER. NH

PREPARED FOR:

THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC 1662 ELM STREET MANCHESTER, NEW HAMPSHIRE





PROJECT OVERVIEW



# Bedford Design Consultants Inc. ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com



# NOTES

1. OWNER OF RECORD:

ROCHESTER TAX MAP 256 LOTS 66, 66-1 THRU 66-53 & 66-58 THRU 66-64 SMALL TRIANGULAR PIECE IN DOVER

CBDA DEVELOPMENT LLC 1662 ELM STREET MANCHESTER, NH 03101 BOOK 3873 PAGE 683 & BOOK 3676 PAGE 464

ROCHESTER TAX MAP 256 LOTS 66-54 THRU 66-57

VILLAGE OF CLARK BROOK, LLC 1662 ELM STREET MANCHESTER, NH 03101 BOOK 4337 PAGE 923

- INCLUDE:
  2.1. THE CONSTRUCTION OF 14, THREE BEDROOM TOWNHOMES ON LOTS 66-F & 66-G
- 2.1. THE CONSTRUCTION OF TWO, 30 UNIT APARTMENT BUILDINGS ON LOTS 66—F. &
  2.2. THE CONSTRUCTION OF TWO, 30 UNIT APARTMENT BUILDINGS ON LOTS 66—H.
  WITH ASSOCIATED DRAINAGE AND PARKING.
  2.3. THE CONSTRUCTION OF A DOG PARK ON LOT 66—M. A GAZEBO AND RELOCATION
  OF A TOT LOT ONTO THE GREEN SPACE OF LOT 66—55 (SEE 2017 PUD
  MASTER PLAN FOR LOCATIONS).
  4. DESIGN OF 5 PARKING SPACES ALONG MAIN ENTRANCE FOR PARENTS TO PARK
  WHILE DROPPING CHILDREN AT THE BUS STOP.
  2.5. THE REMOVAL OF 47 SINGLE FAMILY LOTS AND THE ADDITION OF TWO
  LIVE/WORK LOTS.

- PARCELS: MAP 256A LOT 66-F 99,109 S.F. 2.275 ACRES

MAP 256A LOT 66-G 29,285 S.F. 0.672 ACRES

MAP 256A LOT 66-H 147,384 S.F. 3.383 ACRES

SUBJECT LOTS ZONED AGRICULTERAL (PUD-4)

MINIMUM LOT SIZE SINGLE FAMILY = 6,000 S.F. FRONTAGE = 60'

- THE SUBJECT PARCEL IS OUTSIDE THE 100 YEAR FLOOD PLAN PER FLOOD INSURANCE RATE MAP STRAFFORD COUNTY NEW HAMPSHIRE PANEL 218 OF 405, MAP NUMBER 33017CO2180, EFFECTIVE DATE MAY 17, 2005.
- HORIZONTAL DATUM IS BASED ON THE CITY OF ROCHESTER GIS.

PERMITS REQUIRED:
NHOES ALTERATION OF TERRAIN
NHOES STATE SUBDIVISION
NHOES SEPTIC SYSTEM
CITY OF ROCHESTER CONDOMINIUM SUBDIVISION
CITY OF ROCHESTER SITE PLAN

TOWNHOMES (2 SPACES PER UNIT X 14 UNITS) = 28 (TWO GARAGE AND ONE DRIVEWAY PER UNIT PLUS 9 PARKING SPACES) APARTMENTS (2 SPACES PER UNIT) X 60 UNITS = 120

APPROVED BY THE ROCHESTER PLANNING BOARD

SIGNED BY: (POSITION)

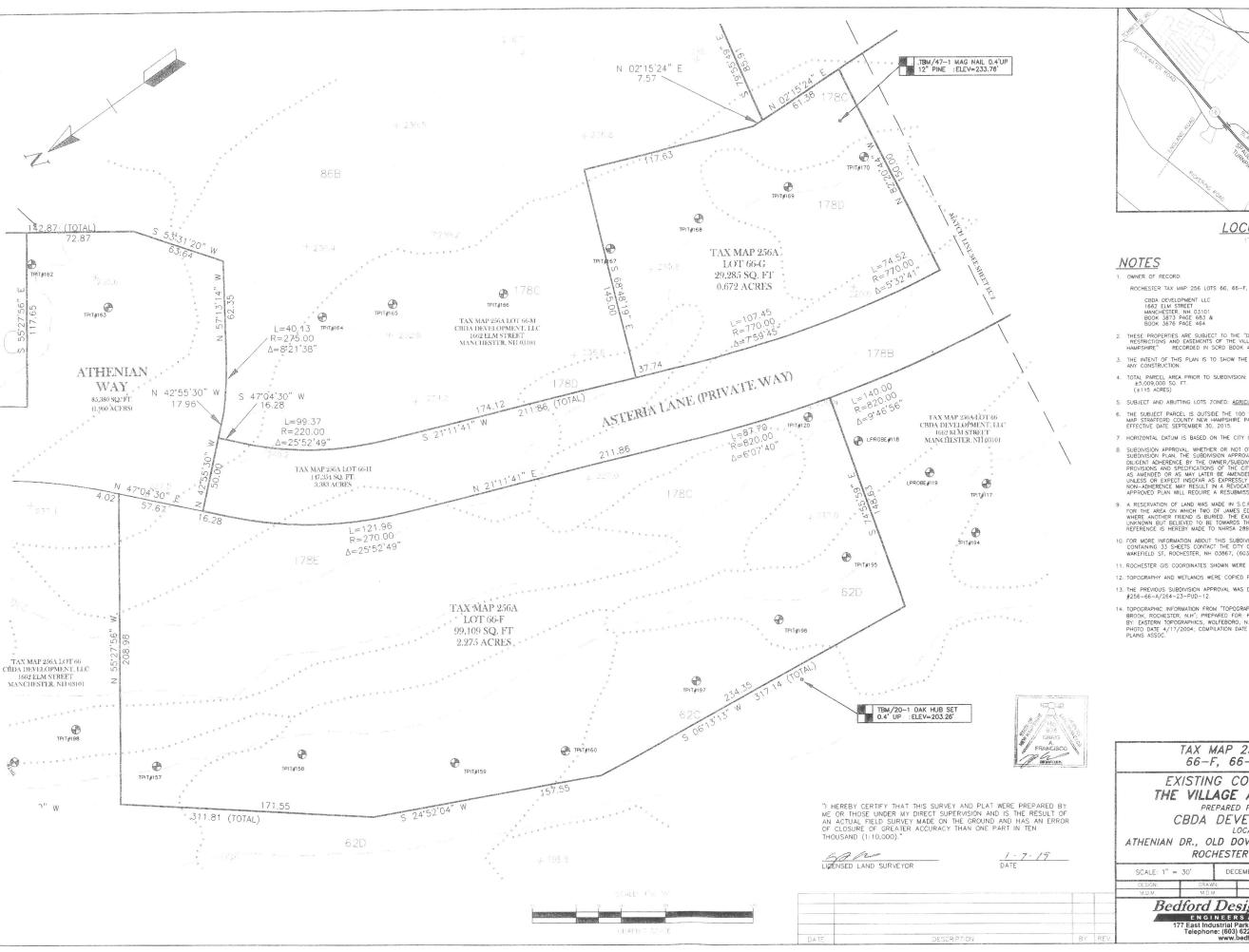
- FOR PLAN REFERENCES SEE THE EXISTING CONDITIONS PLAN.
- 10 FOR MORE INFORMATION ABOUT THIS SITE PLAN, OR TO SEE A COMPLETE PLAN SET CONTAINING 33 SHEETS CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, SMAKEFELD ST, ROCHESTER, IN 0.3867, (603) 335–1336.

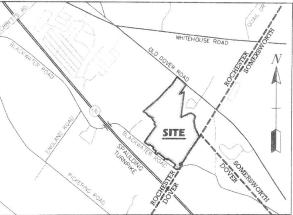


1		Millimith History		
T	J.	BASKERVILLE,	PE	

	#7552		
			Γ
			-
			-
DATE	DESCRIPTION	BY	RE

(NAME)





LOCUS MAP 1"=2000"

ROCHESTER TAX MAP 256 LOTS 66, 66-F, 66-G, & 66-H.

- THESE PROPERTIES ARE SUBJECT TO THE "DECLARATION OF CONDITIONS, OPEN SPACE, RESTRICTIONS AND EASEMENTS OF THE VILLAGE OF CLARK BROOK, ROCHESTER, NEW HAMPSHIRE" RECORDED IN SCROB BOOK 4337 PAGE 909.
- 3. THE INTENT OF THIS PLAN IS TO SHOW THE CONDITIONS OF THESE PROPERTIES PRIOR TO ANY CONSTRUCTION.
- 5. SUBJECT AND ABUTTING LOTS ZONED: AGRICULTURAL (PUD-4)
- THE SUBJECT PARCEL IS OUTSIDE THE 100 YEAR FLOOD ZONE PER FLOOD INSURANCE RATE MAP STRAFFORD COUNTY NEW HAMPSHIRE PANEL 218 OF 405, MAP NUMBER 33017C0218E, EFFECTIVE DATE SEPTEMBER 30, 2015.
- 7. HORIZONTAL DATUM IS BASED ON THE CITY OF ROCHESTER GIS.
- 8 SUBDINISION APPROVAL WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SUBDINISION PLAN. THE SUBDINISION APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILICENT APHERNORE BY THE OWNER/SUBDINISER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SUBDIVISION REGULATIONS AS MEMBEDE OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL. UNLESS OR EXPECT INSOFAR AS EXPRESSLY WANTED, IN ANY PARTICULAR, BELOW, NON-ADMERBENCE MAY RESULT IN A REVOCATION OF APPROVAL ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SUBDIVISION APPROVAL.
- 9. A RESERVATION OF LAND WAS MADE IN S.C.R.D. BOOK 747, PAGE 260 BY EDWARD J. BRYAN FOR THE AREA ON WHICH TWO OF JAMES EDNEY'S FRIENDS ARE BURIED AND ANOTHER AREA WHERE ANOTHER FIRIND IS BURIED. THE EXACT LOCATIONS OF SAID BURIAL GROUNDS ARE UNKNOWN BUT BELIEVED TO BE TOWARDS THE NORTHERLY PORTION OF THE PREMISE. REFERENCE IS HEREBY MADE TO NHRSA 289:3.
- FOR MORE INFORMATION ABOUT THIS SUBDIVISION, OR TO SEE A COMPLETE PLAN SET CONTAINING 33 SHEETS CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD ST, ROCHESTER, NH 03867, (603) 335-1338.
- 11, ROCHESTER GIS COORDINATES SHOWN WERE CALCULATED FROM THE REFERENCED PLANS.
- 12. TOPOGRAPHY AND WETLANDS WERE COPIED FROM THE REFERENCED PLANS.
- 13. THE PREVIOUS SUBDIVISION APPROVAL WAS DATED FEBRUARY 6, 2013, CASE #256-66-A/264-23-PUD-12.
- 14. TOPOGRAPHIC INFORMATION FROM "TOPOGRAPHIC WORKSHEET OF THE VILLAGE OF CLARK BROOK, ROCHESTER, NH.; PREPARED FOR: PETER WHITMAN, NEW CASTLE, N.H.; PREPARED BY: EASTERN TOPOGRAPHICS, WOLFEBORO, N.H.; SCALE ""=50", CONTOUR INTERVAL: 2"; PHOTO DATE 4/17/2004; COMPILATION DATE 5/04/2004; GROUND CONTROL BY NORWAY PLANS ASSOC.

TAX MAP 256A LOT 66. 66-F, 66-G & 66-H

EXISTING CONDITIONS PLAN THE VILLAGE AT CLARK BROOK PREPARED FOR & LAND OF:

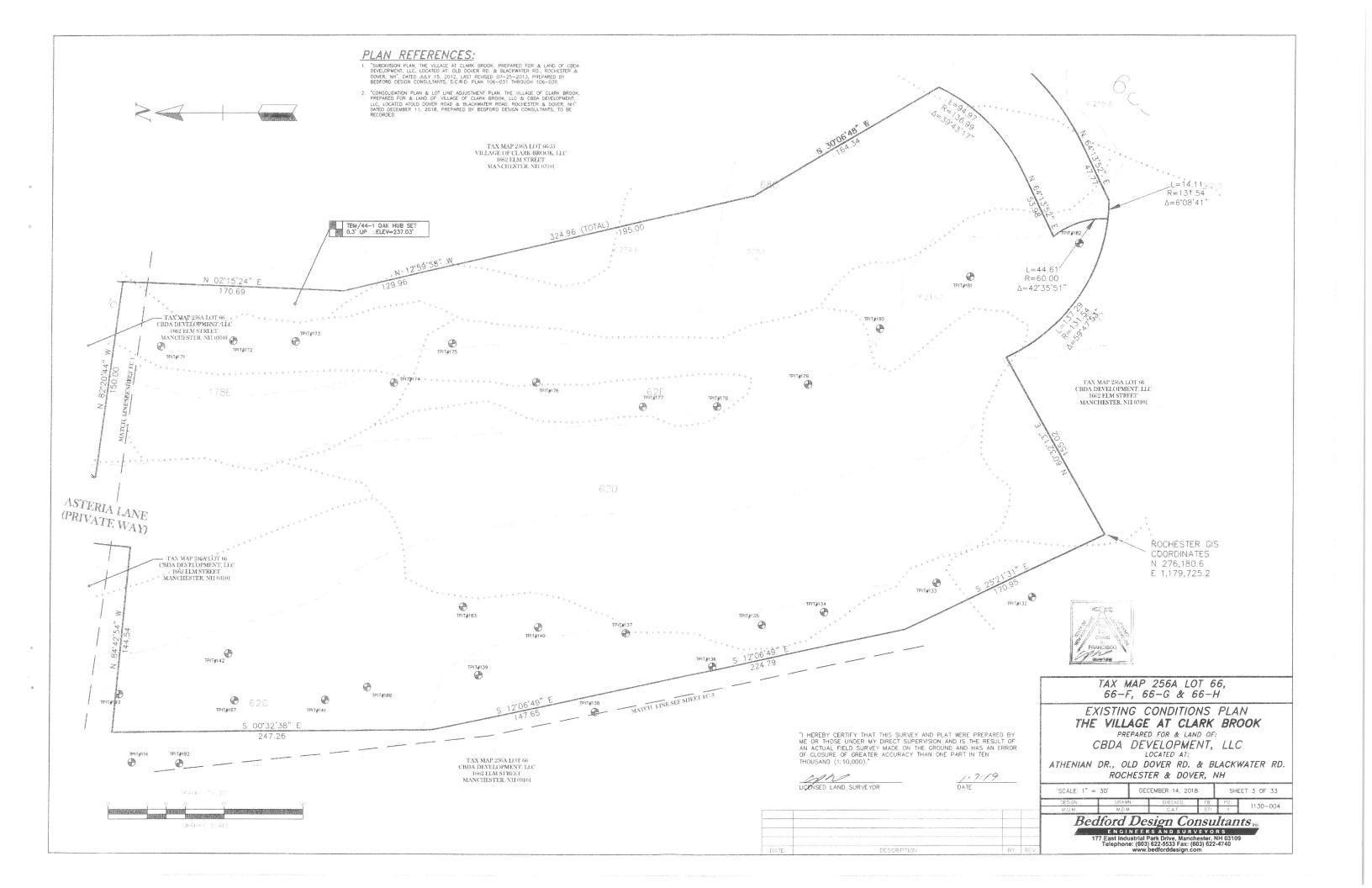
CBDA DEVELOPMENT, LLC LOCATED AT: ATHENIAN DR., OLD DOVER RD. & BLACKWATER RD.

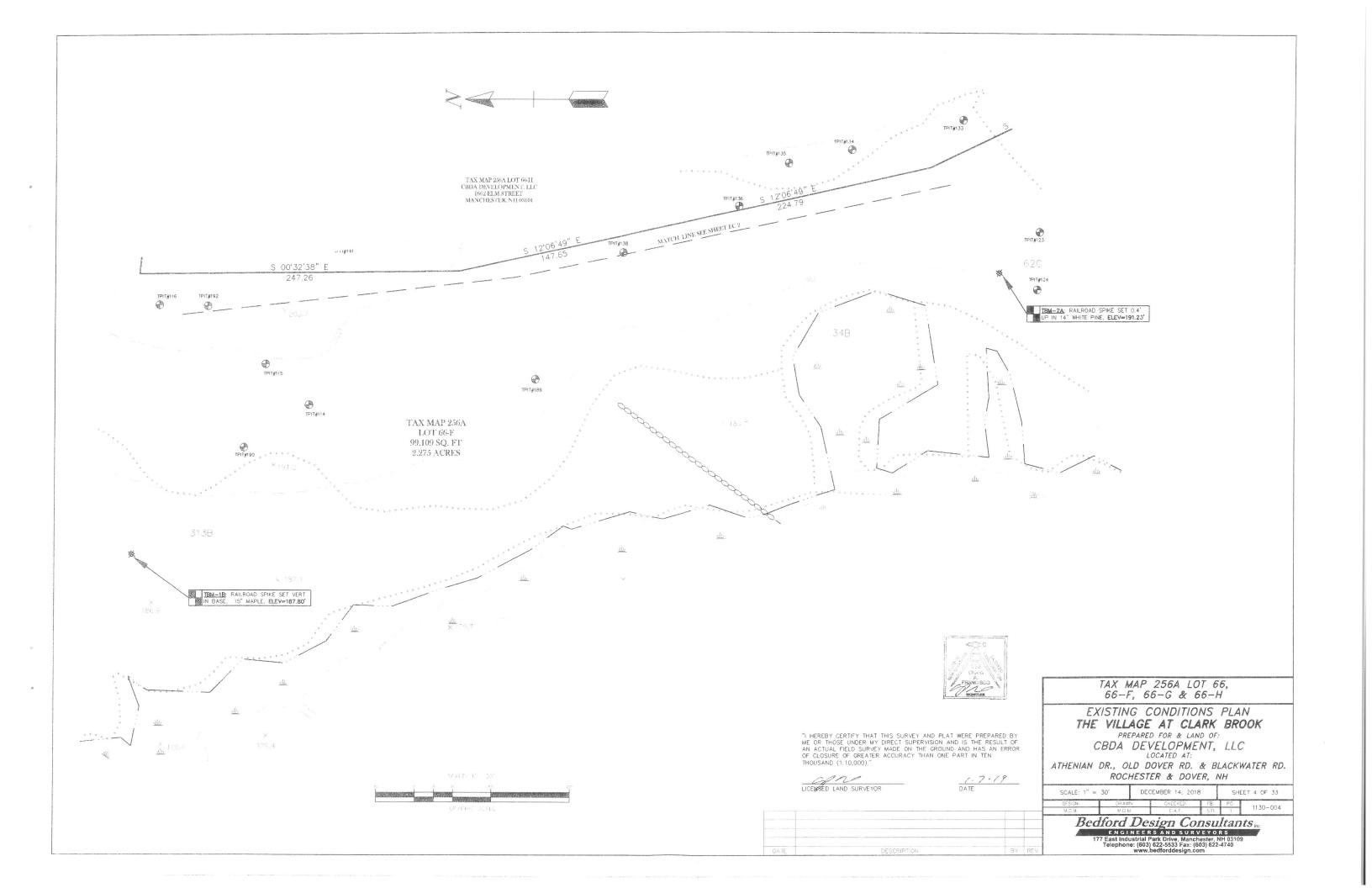
ROCHESTER & DOVER, NH DECEMBER 14, 2018 SHEET 2 OF 33 1130-004

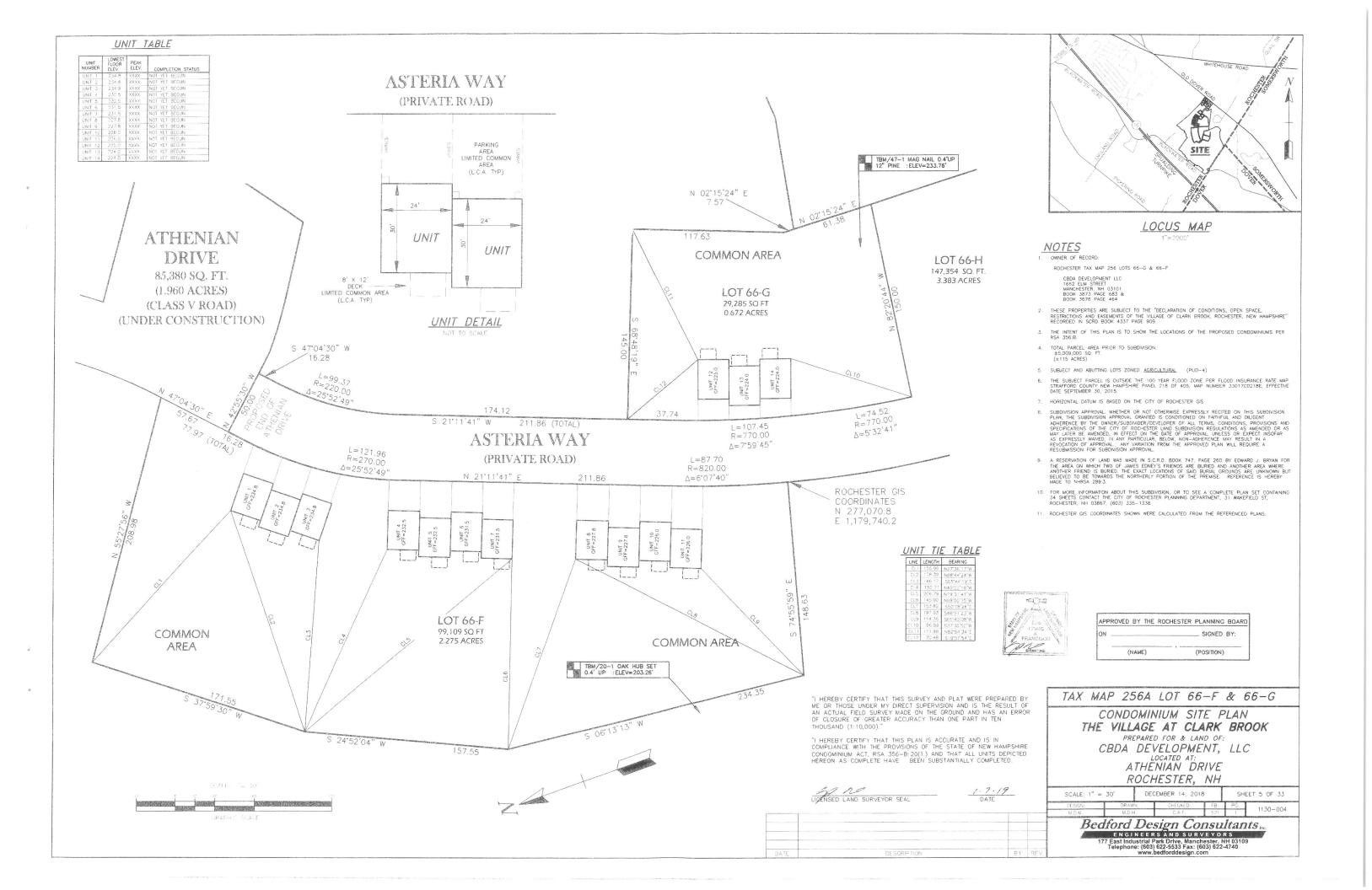
Bedford Design Consultants Inc.

ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-533 Fax: (603) 622-4740
www.bedforddesign.com









THE WARREST OF THE COMMENT OF THE CO

NOTE 8

L=47 50 R=50.00 4=54°25'34"

> L=47.50 R=30.00 4=6/20/347

L=4750 R=50.00 a=2€20'34'

> LOT 66-C 12306 SQ FT 5 NO ACPES

JOHN & CHRISTNE NORRIS 4CH GLD DOVER ROAD 40CH(STER, NH GURET

APPLICATION OF BUILDING THOUSE APPLICATION OF BUILDING THOUSE APPLICATION OF BUILDING APPLICA ROAD

1. OWNER OF RECORD:

CBDA DEVELOPMENT LLC 1662 ELM STREET MANCHESTER, NH 03101 BOOK 3873 PAGE 683 & BOOK 3676 PAGE 464

ROCHESTER TAX MAP 256 LOTS 66-54 THRU 66-57

VILLAGE OF CLARK BROOK, LLC 1662 ELM STREET MANCHESTER, NH 03101 BOOK 4337 PAGE 923

ATHENIAN

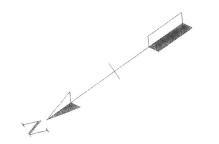
OPEN SPACE LOT 66 1499,210-150 FT

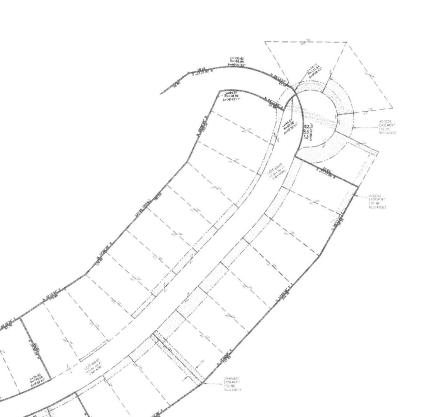
EVSTING DRAINAGE EASEMENT SET REFERENCED FLAN

TAKEMP 25E (CT ET APERICH(NEEL 6 MEL POND LEIC HARTE E AN TOME) DRIVE

L=52.87 8=420.00

- THESE PROPERTIES ARE SUBJECT TO THE "DECLARATION OF CONDITIONS, OPEN SPACE, RESTRICTIONS AND EASEMENTS OF THE VILLAGE OF CLARK BROOK, ROCHESTER, NEW HAMPSHIRE" RECORDED IN SCRD BOOK 4337 PAGE 909.
- THE INTENT OF THIS PLAN IS TO SHOW THE PORTION OF ATHENIAN DRIVE THAT IS TO BE RELEASED FROM PUBLIC SERVITUDE ALONG WITH THE VARIOUS ASSOCIATED EASEMENTS.





# LEGEND

GRANITE BOUND FOUND

BOUND TO BE SET

REBAR FOUND

REBAR TO BE SET

♠ DRILL HOLE SET

DRILL HOLE FOUND

STONE WALL

C UTILITY POLE

- GUY ANCHOR

MAILBOX

TEST PIT

\_\_\_\_ x \_\_\_\_ BARBWIRE FENCE

- BUILDING SETBACK LINE (MIN.)

EXISTING TREE LINE

- EDGE OF JURISDICTIONAL WETLANDS

---- EDGE OF BROOK

SLOPE EASEMENT

DRAINAGE EASEMENT

SEWER EASEMENT

NITRATE EASEMENT (PER PLAN REF#2)

ACCESS EASEMENT

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN TEN THOUSAND (1:10,000)."

LIGENSED LAND SURVEYOR

1.7.19 DATE

TAX MAP 256 LOT 66 THRU 66-60

ROADWAY AND EASEMENT
ABANDONMENT PLAN

THE VILLAGE AT CLARK BROOK

PREPARED FOR & LAND OF:

VILLAGE OF CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC

LOCATED AT:
ATHENIAN DRIVE
ROCHESTER, NH

 SCALE: 1" = 50'
 DECEMBER 14, 2018
 SHEET 6 OF 33

 DESIGN:
 DRAWN:
 CHECKED:
 FB: PG. 1130-004

 M.D.M.
 M.D.M.
 C.A.F. 57! 1
 1130-004

Bedford Design Consultants Inc.

ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-533 Fax: (603) 622-4740
www.bedforddesign.com

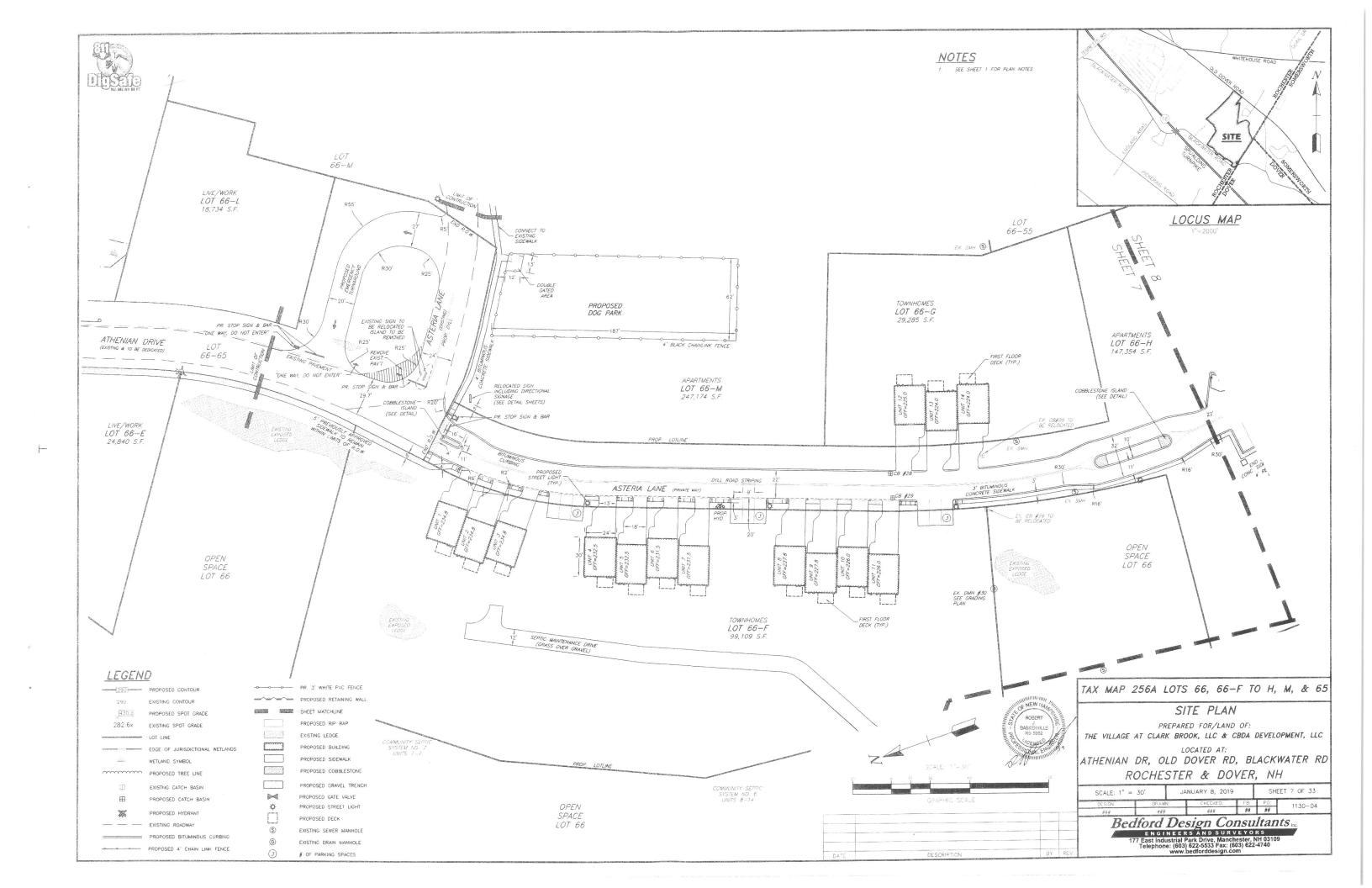
ALE: 1° FG

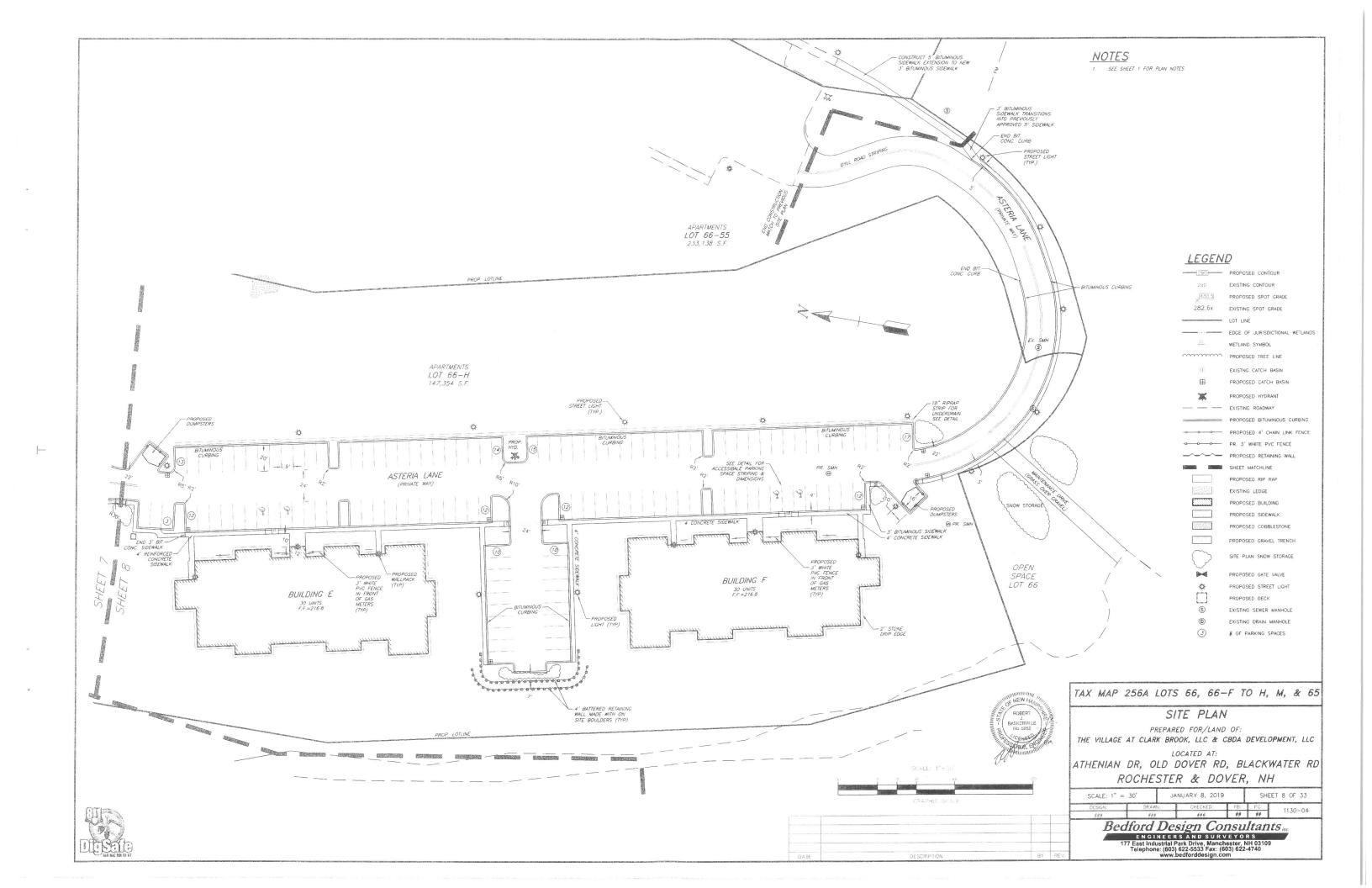
R=275.00 6-5'21'30'

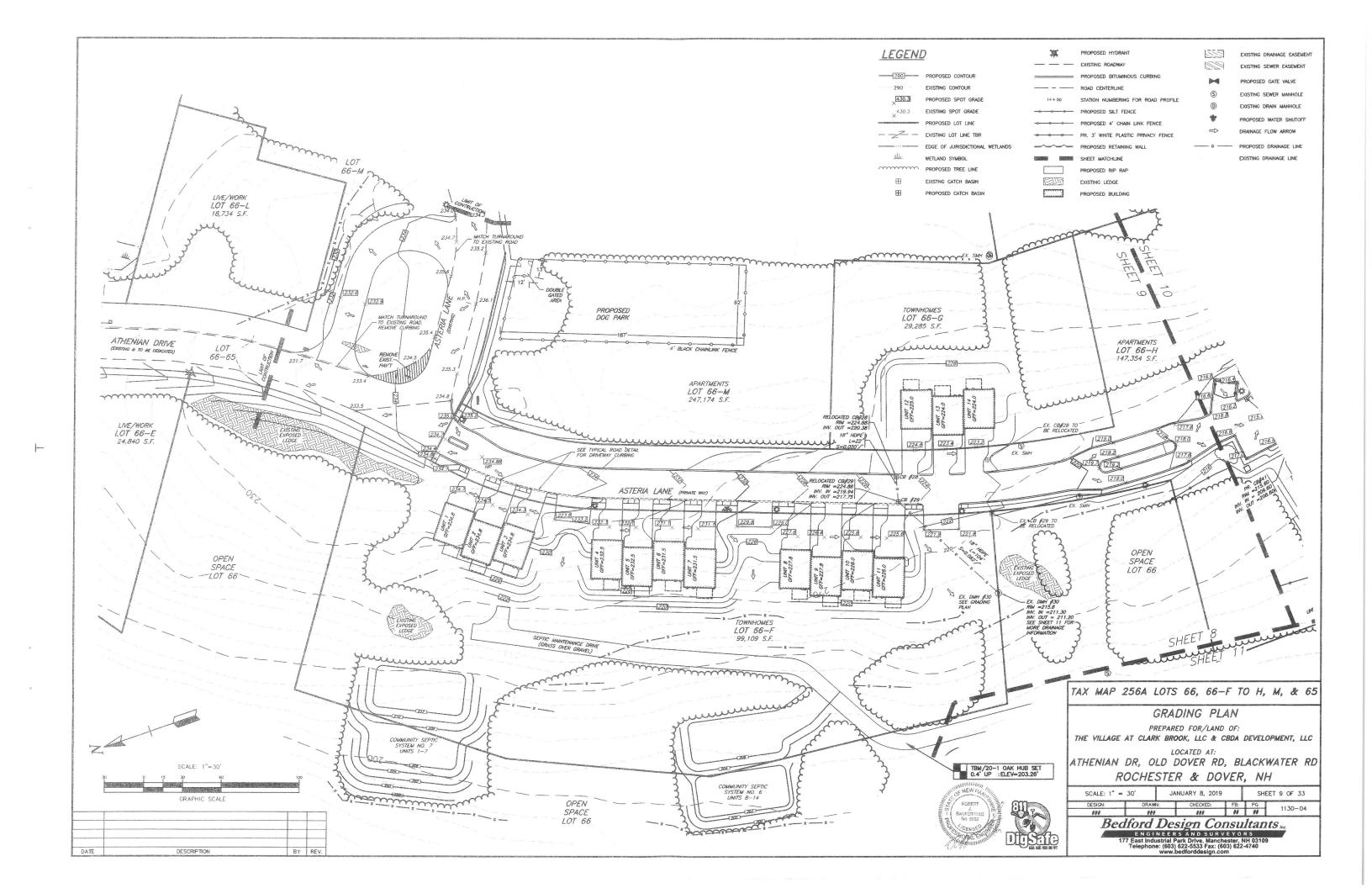
670+30° ±

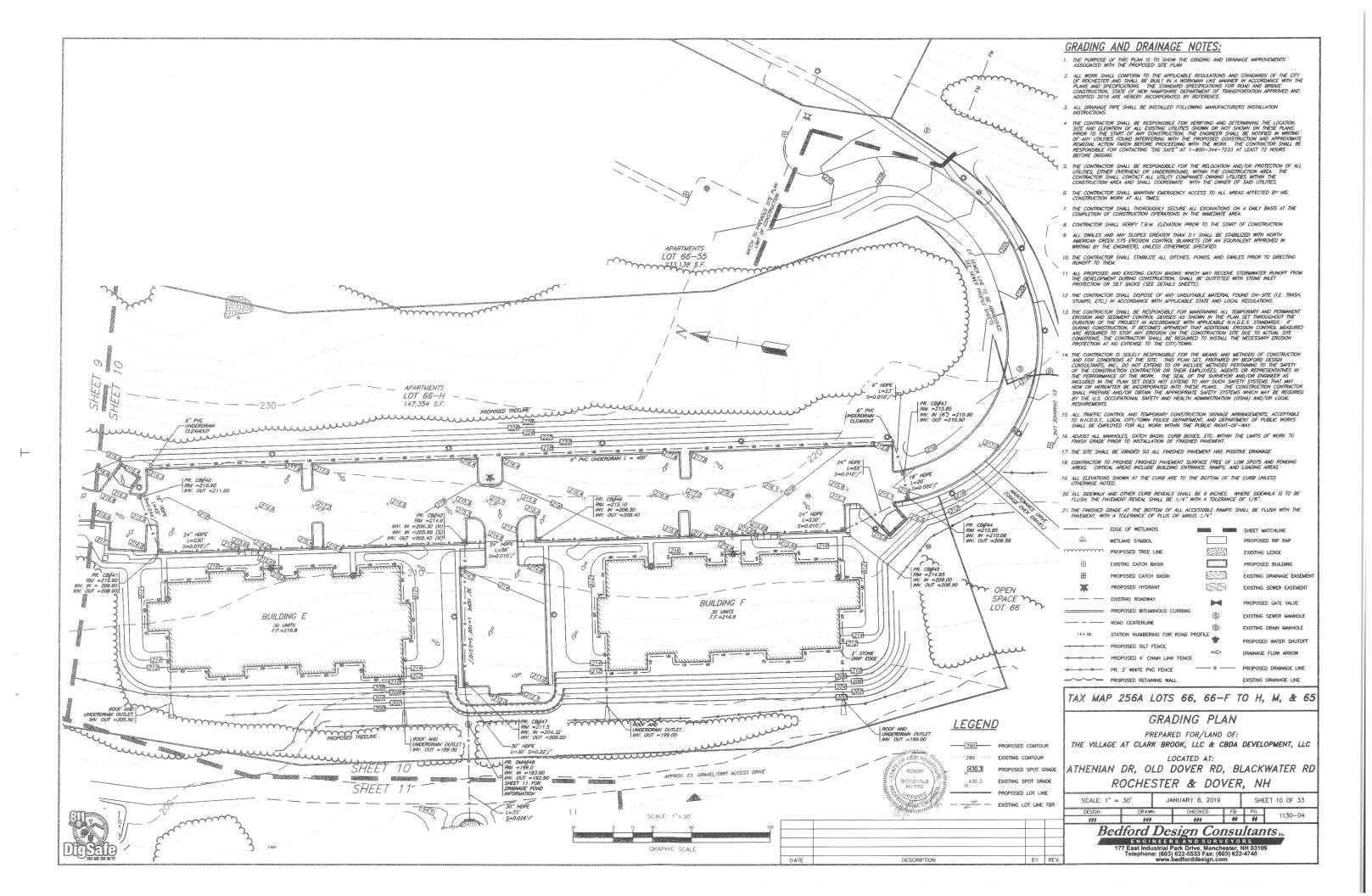
1 OT 65 H 147 354 50 FT 3 391 ACRES

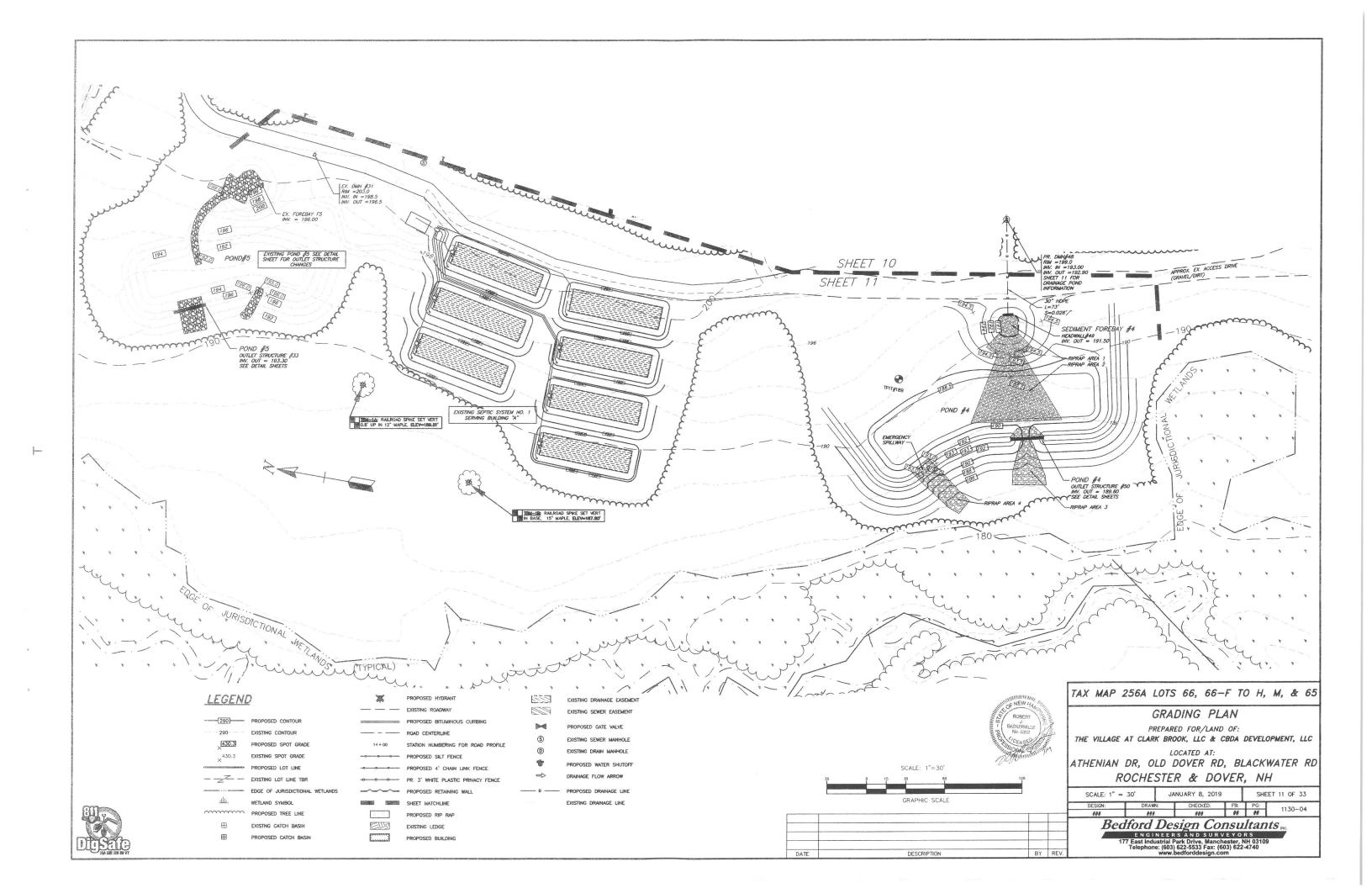
DATE DESCRIPTION BY

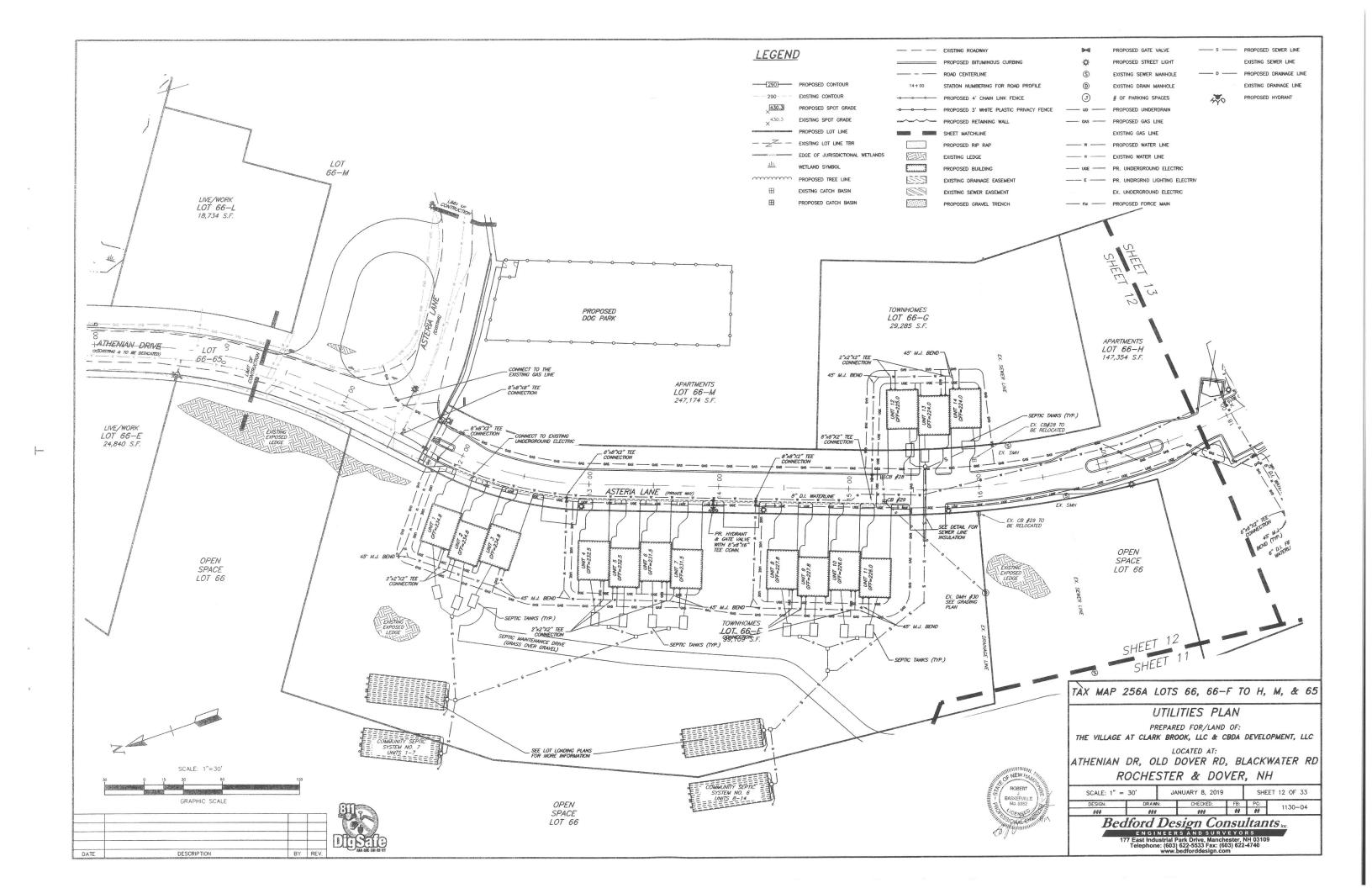


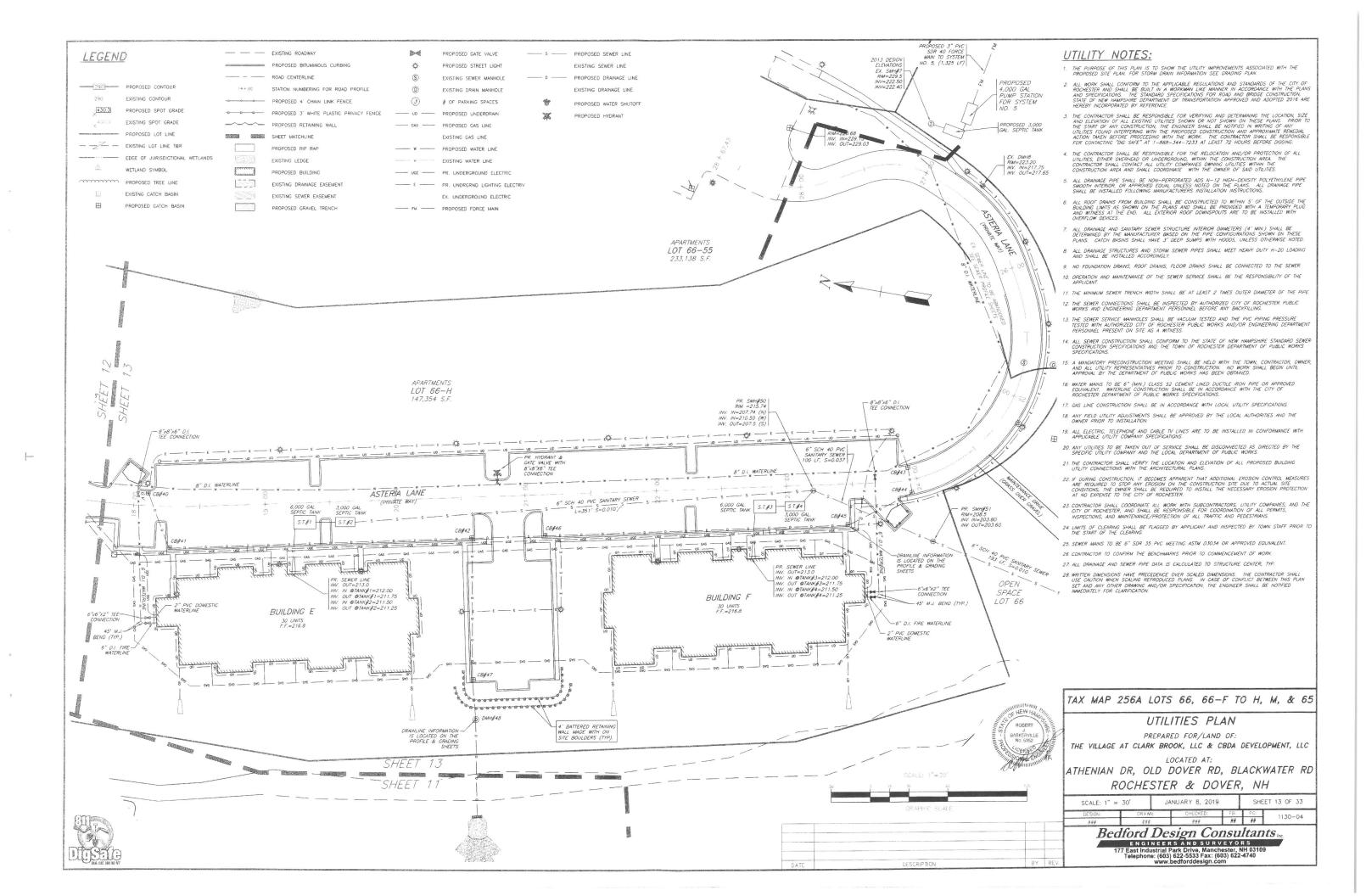












# NOTES:

- 1. IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS. THE OWNER SHALL BE REQUIRED TO MISTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY OF ROCHESTER.
- 2. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE CITY OF ROCHESTER AND SHALL BE BUILT IN A MORRIMAN LIKE MANNER IN ACCORDANCE WITH THE PLANS AND SECLIFICATIONS. THE STANDARD SECLIFICATIONS FOR RODA AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION APPROVED AND ADOPTED 2016 ARE HEREBY INCORPORATED BY REFERENCE.
- 3. STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO N.H.D.O.T. STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLE SHALL CONFORM TO SECTION 604. ALL CATCH BASIN AND DRAIN MANHOLE GRATES SHALL CONFORM TO CITY OF ROCHESTER AND N.H.D.O.T. STANDARDS AND SPECIFICATIONS.
- 4. CONTRACTOR SHALL COORDINATE ALL WORK WITH SUBCONTRACTORS, UTILITY COMPANIES, AND THE CITY OF ROCHESTER, AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL PERMITS, INSPECTIONS, AND MANTEMENCE/PROFECTION OF ALL TRAFFIC AND PEDESTRAND.
- THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY COMPANIES, AND SHALL ARRANGE FOR ALL REQUIRED INSPECTIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFTING AND DETERMINING THE LOCATION SIZE AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS. PRICE TO THE START OF ANY CONSTRUCTION, THE ENGINEER SHALL BE MOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROXIMATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE DIGGING.
- 7. THE APPLICANT/CONTRACTOR WILL NEED TO SCHEDULE A MANDATORY PRECONSTRUCTION MEETING WITH ROCHESTER PUBLIC WORKS DIVISION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO DISCUSS INSPECTION FEES, SCHEDULES, ETC.
- 8. WORK WITHIN THE CITY OF ROCHESTER RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT.
  CONTRACTOR TO CONTACT THE PUBLIC WORKS DIVISION TO APPLY FOR THESE PERMITS.
- 9. ALL TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION SIGNAGE APRANGEMENTS, ACCEPTABLE TO N.H.D.O.T., ROCHESTER POLICE DEPARTMENT, AND ROCHESTER DEPARTMENT OF PUBLIC WORKS SHALL BE EMPLOYED FOR ALL WORK WITHIN THE PUBLIC RIGHT-0F-MAY.
- 10. LIMITS OF CLEARING SHALL BE FLAGGED BY APPLICANT AND INSPECTED BY CITY STAFF PRIOR TO THE START OF THE CLEARING.
- 11. DRAINAGE PIPES TO BE CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE WITH STANDARD JOINTS, DUAL-WALL, SMOOTH INTERIOR AS MANUFACTURED BY ADS., INC. OR ENGINEER APPROVED EQUIVALENT UNIVESS OTTERWISE, NOTED ON THE PLANS.
- 12. SEWER MAINS TO BE 8" SDR 35 PVC MEETING ASTM D3034 OR APPROVED EQUIVALENT
- 13. WATER MAINS TO BE 8" CLASS 52 CEMENT LINED DUCTILE IRON PIPE OR APPROVED EQUIVALENT.
- 14. WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF ROCHESTER SPECIFICATIONS.
- 15. CONTRACTOR TO CONFIRM THE BENCHMARKS PRIOR TO COMMENCEMENT OF WORK.
- 16. ALL DRAINAGE AND SEWER PIPE DATA IS CALCULATED TO STRUCTURE CENTER, TYP.
- 17. ALL ELECTRIC, TELEPHONE, AND CABLE TV LINES ARE TO BE INSTALLED IN CONFORMANCE WITH APPLICABLE UTILITY CO. SPECIFICATIONS. THE LOCATION SHOWN ON THESE PLANS IS PREJAMMARY ONLY AND SUBJECT TO FINAL UTILITY COMPANY REVIEW. ALL UTILITYES SHALL BE INSTALLED UNDERGOODING.
- 18. ANY UTILITIES TAKEN OUT OF SERVICE SHALL BE DISCONNECTED AS DIRECTED BY UTILITY COMPANY AND CITY OF ROCHESTER MUNICIPAL SERVICES DEPARTMENT.
- 19. THE FINAL SIZE AND LOCATION OF THE GAS MAIN TO BE DETERMINED BY LOCAL UTILTY COMPANY.
- 20. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.



TAX MAP 256A LOTS 66, 66-F TO H, M, & 65

## ROAD PROFILE

NOAD TROTTEL

PREPARED FOR/LAND OF:
THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC

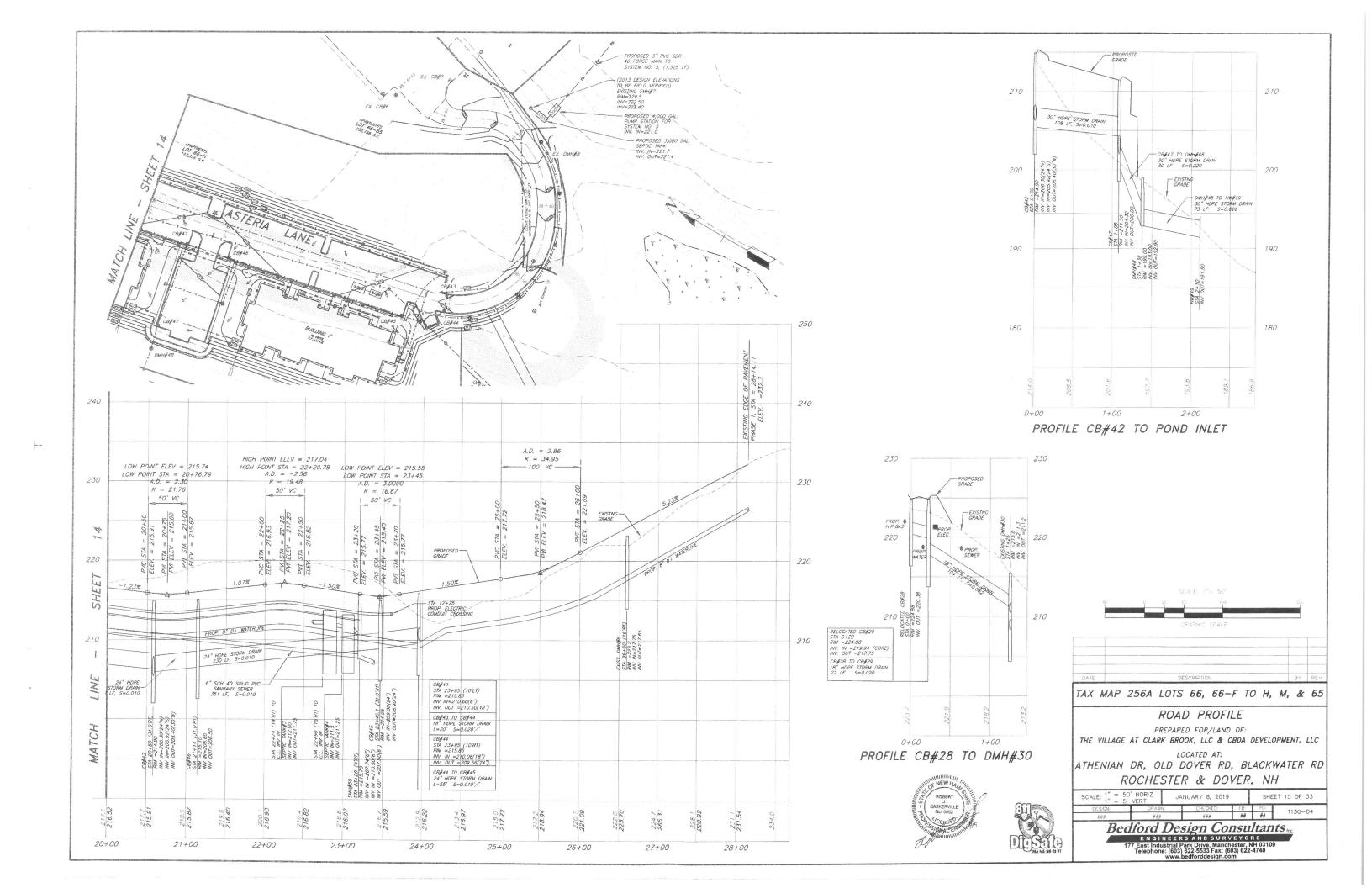
LOCATED AT: ATHENIAN DR, OLD DOVER RD, BLACKWATER RD

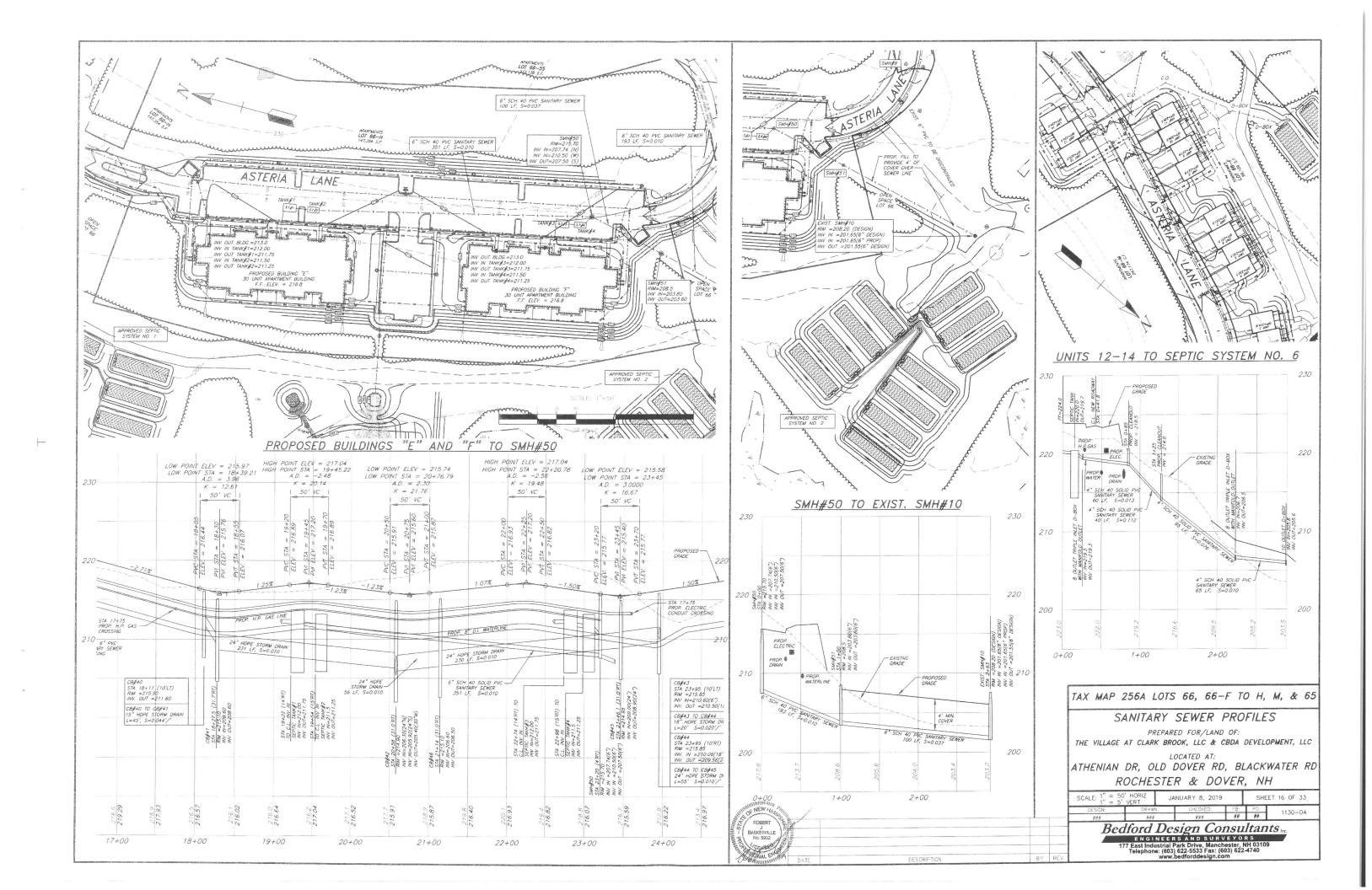
ROCHESTER & DOVER, NH

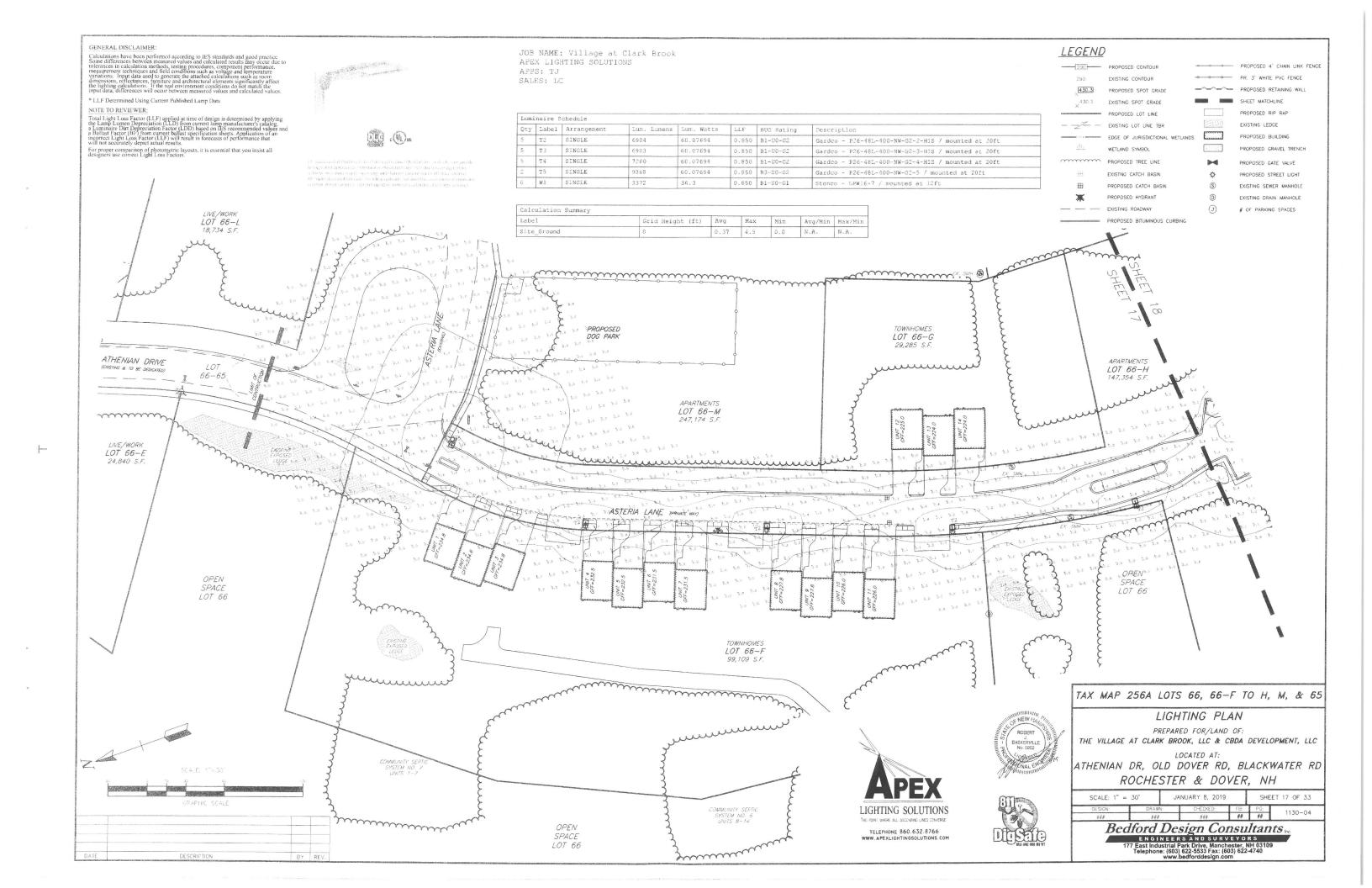
SCALE: 1" = 50' HORIZ JANUARY 8, 2019 SHEET 14 OF 33

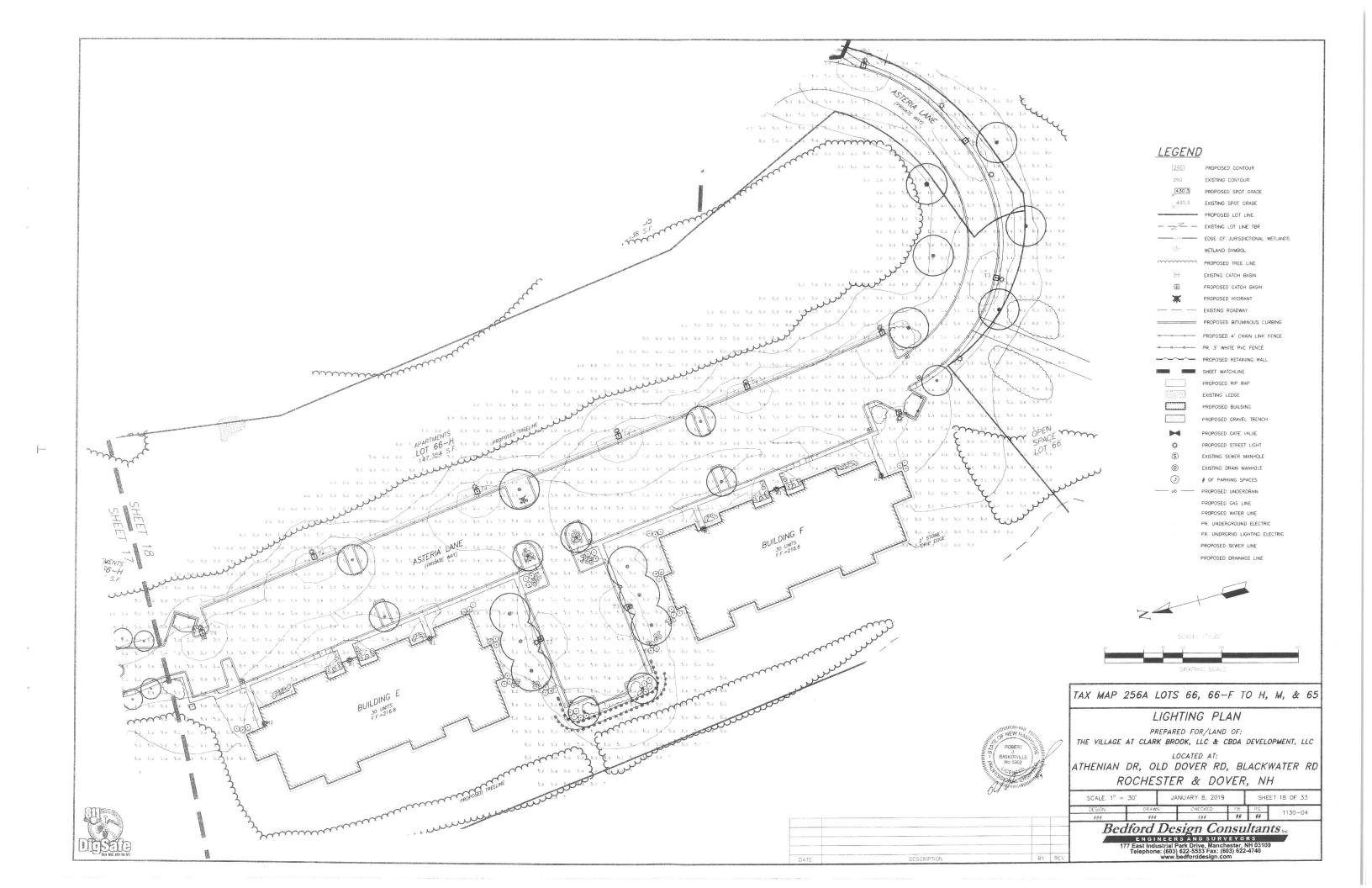
Bedford Design Consultants Inc.

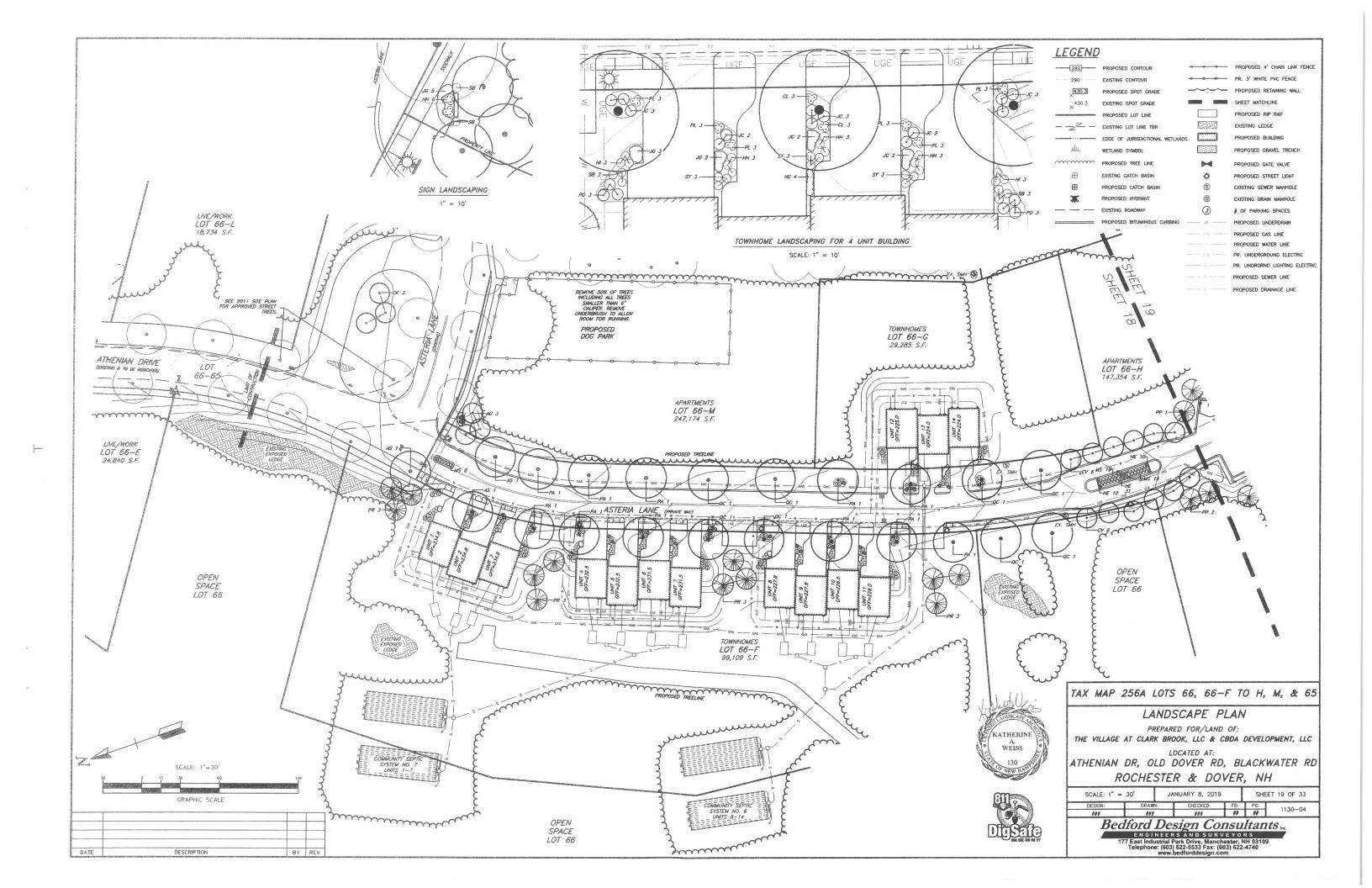
ENGINEERS AND SURVEYORS 177 East Industrial Park Drive, Manchester, NH 03105 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com

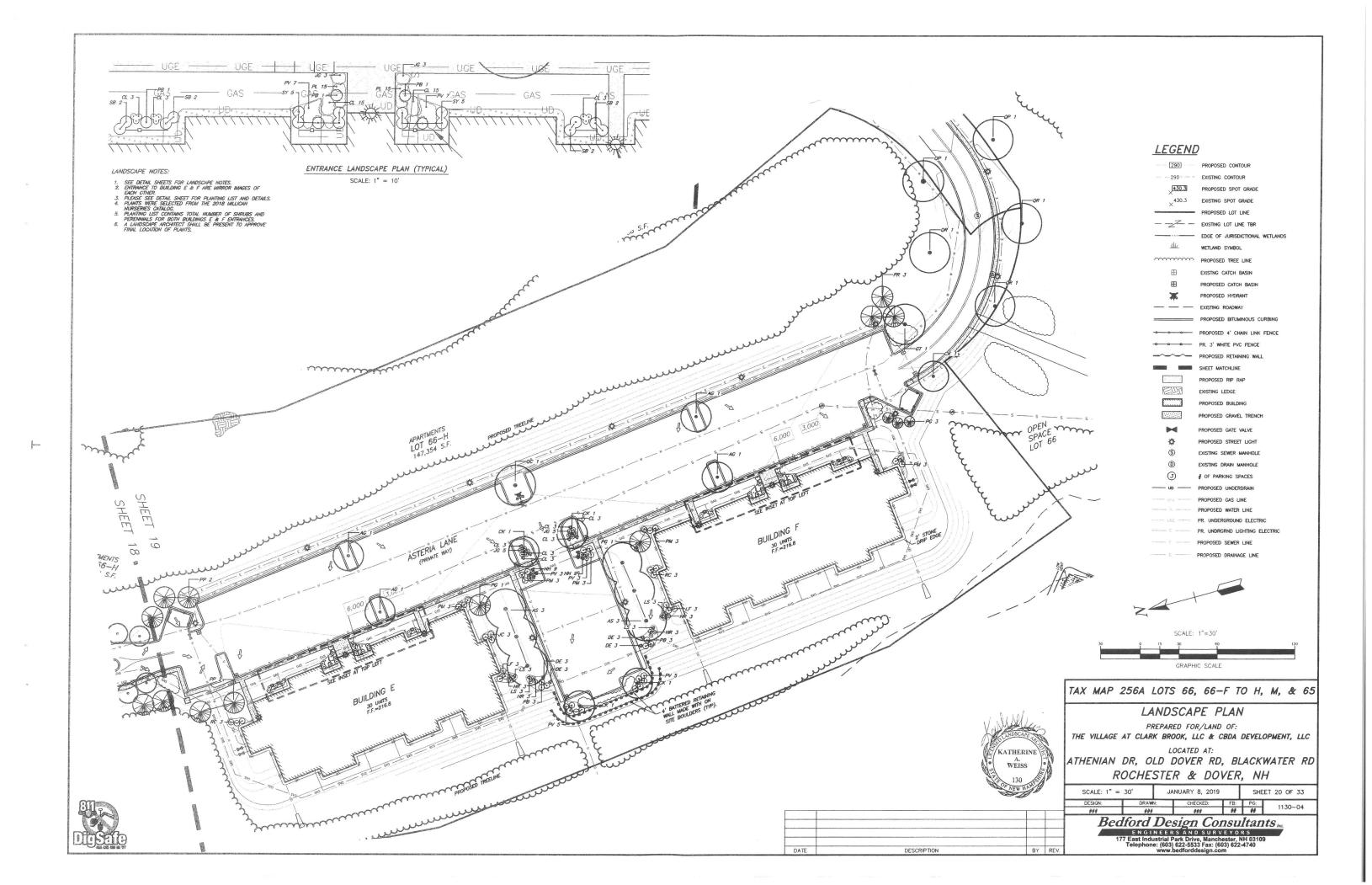


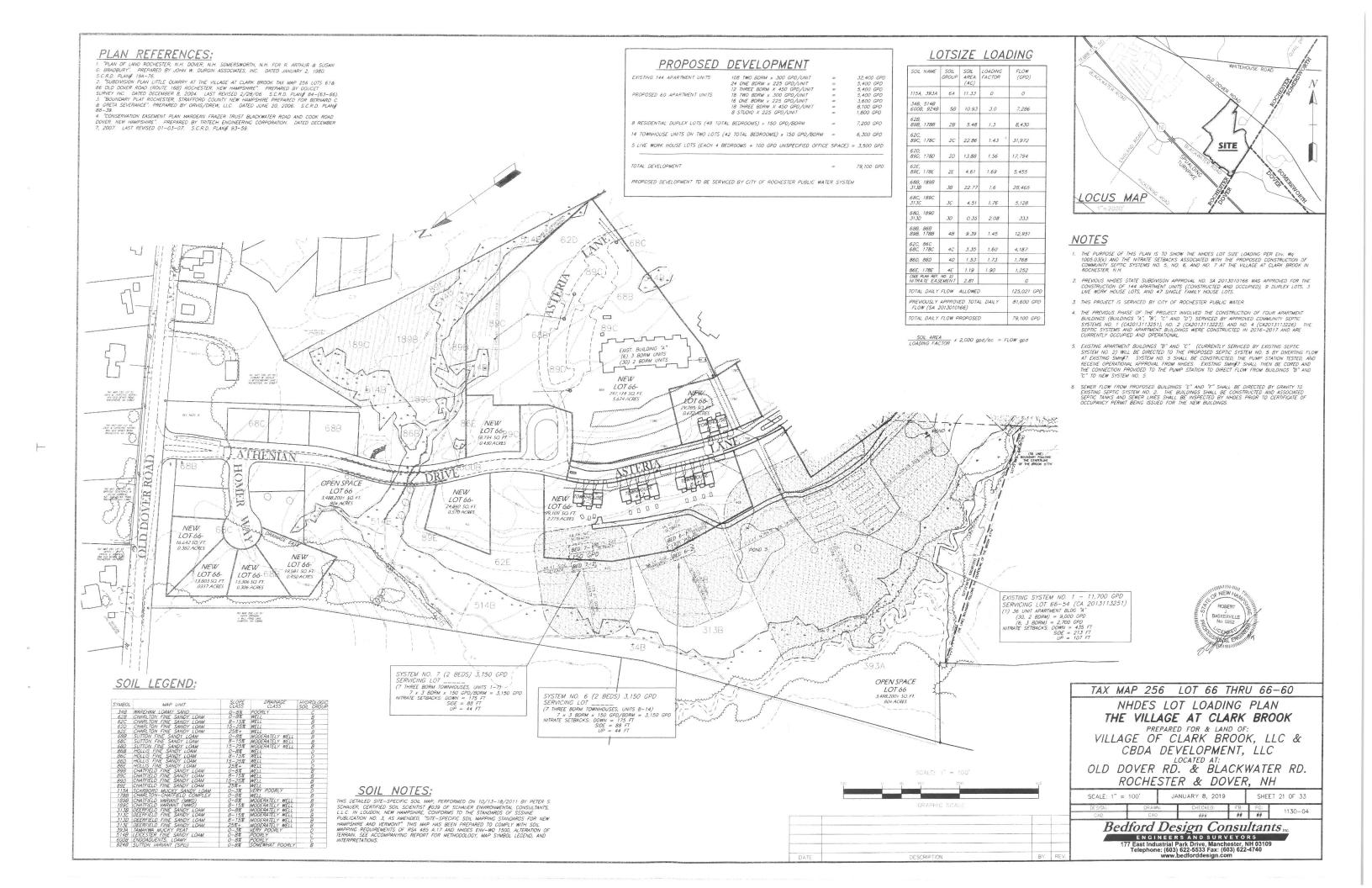


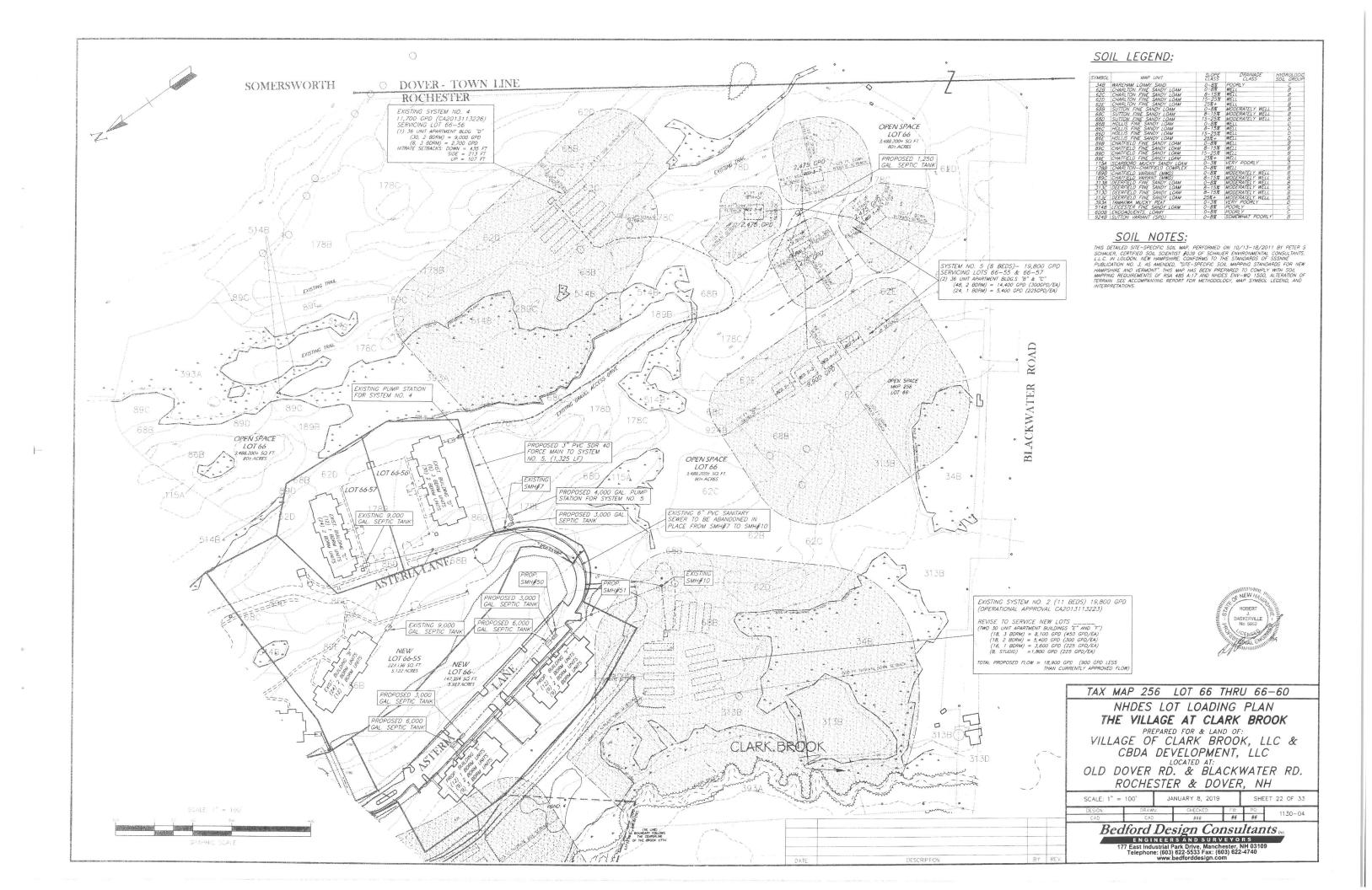


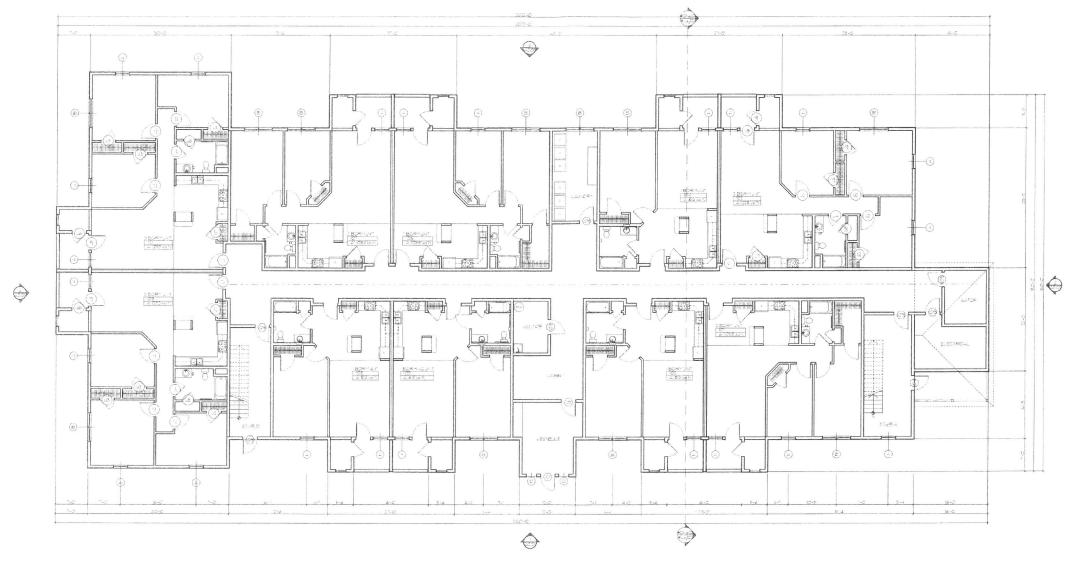










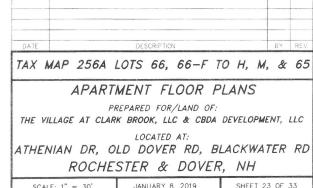


BURNELL A JOHNSON

A R C B I I F E C F S

15 State and the latter of the

1. FIRST FLOOR PLAN



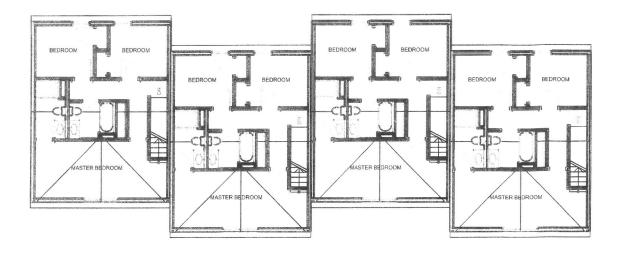
SCALE: 1" = 30' JANUARY 8, 2019 SHEET 23 0F 33

DESIGN: DRAWN: CHECKED: FB: PG: 1130-04

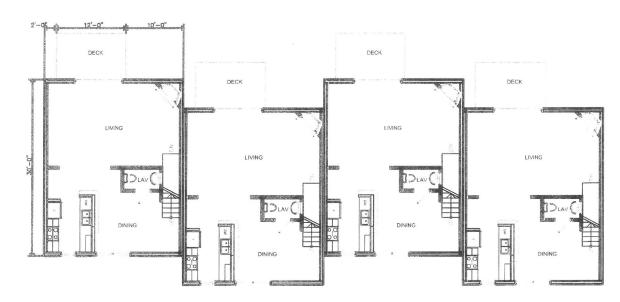
Bedford Design Consultants:

Bedford Design Consultants inc ENGINEERS AND SURVEYORS 177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-533 Fax: (603) 622-4740 www.bedforddesign.com

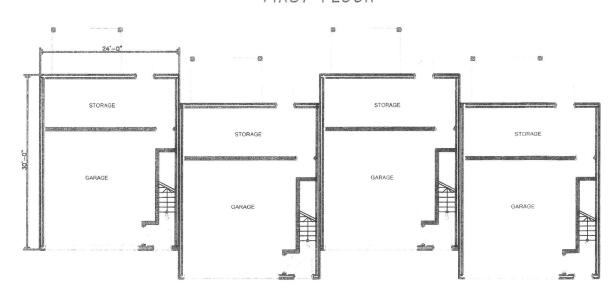




# SECOND FLOOR



FIRST FLOOR



BASEMENT FLOOR

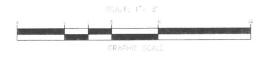
# NOTES

OWNER OF RECORD:

ROCHESTER TAX MAP 256 LOTS 66-G & 66-F

CBDA DEVELOPMENT LLC 1662 ELM STREET MANCHESTER, NH 03101 BOOK 3873 PAGE 683 & BOOK 3676 PAGE 464

- 2. THESE PROPERTIES ARE SUBJECT TO THE "DECLARATION OF CONDITIONS, OPEN SPACE, RESTRICTIONS AND EASEMENTS OF THE VILLAGE OF CLARK BROOK, ROCHESTER, NEW HAMPSHIRE" RECORDED IN SCRD BOOK 4337 PAGE 909.
- 3. THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED FLOOR PLAN FOR THE CONDOMINIUM UNITS PER RSA 356:B.
- 4. SUBDIVISION APPROVAL. WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SUBDIVISION PLAN, THE SUBDIVISION APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SUBDIVISION REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED. IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXPECT INSOFAR AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW, NON-ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SUBDIVISION APPROVAL.
- 5. A RESERVATION OF LAND WAS MADE IN S.C.R.D. BOOK 747, PAGE 260 BY EDWARD J, BRYAN FOR THE AREA ON WHICH TWO OF JAMES EDNEY'S FRIENDS ARE BURIED AND ANOTHER AREA WHERE ANOTHER FRIEND IS BURIED. THE EXACT LOCATIONS OF SAID BURIAL GROUNDS ARE UNKNOWN BUT BELIEVED TO BE TOWARDS THE NORTHERLY PORTION OF THE PREMISE. REFERENCE IS HEREBY MADE TO NHRSA 289.3.
- 6. FOR MORE INFORMATION ABOUT THIS SUBDIVISION, OR TO SEE A COMPLETE PLAN SET CONTAINING 34 SHEETS CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD ST, ROCHESTER, NH 03867, (603) 335-1338.





	ы	ITIE	ROCHESTER		
ON		-		SIGNED	BT:

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION.

"I HEREBY CERTIFY THAT THIS PLAN IS ACCURATE AND IS IN COMPLIANCE WITH THE PROVISIONS OF THE STATE OF NEW HAMPSHIRE CONDOMINIUM ACT, RSA 356-B: 20(1.) AND THAT ALL UNITS DEPICTED HEREON AS COMPLETE HAVE BEEN SUBSTANTIALLY COMPLETED.

LICENSED LAND SURVEYOR SEAL

1.7.19 DATE TAX MAP 256A LOT 66-F & 66-G

CONDOMINIUM FLOOR PLAN
THE VILLAGE AT CLARK BROOK

PREPARED FOR & LAND OF:

CBDA DEVELOPMENT, LLC

LOCATED AT:

ATHENIAN DRIVE

ROCHESTER, NH

 SCALE: 1" = 8'
 DECEMBER 14, 2018
 SHEET 24 0F 33

 DESIGN:
 DRAWN:
 CHECKED:
 FB:
 PG:
 1130-004

 M.D.M.
 M.D.M.
 C.A.F.
 571
 1
 1130-004

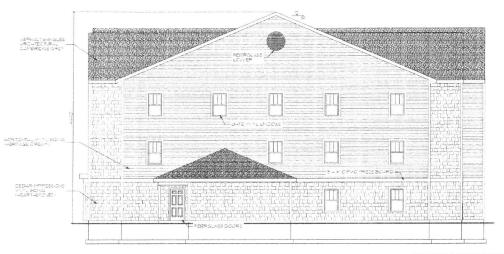
Bedford Design Consultants Inc.

ENGINEERS AND SURVEYORS 177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-4740 www.bedforddesign.com



FRONT ELEVATION





(4) LEFT ELEVATION

2 RIGHT ELEVATION



BURNELL & JOHNSON

A R C H I T E C T S

10 STANK SINGE!
140 (CS-5126 M)
150 (SK-5126 M)
150 (SK-5126 M) ELEVATIONS

VILLAGE AT CLARK BROOK #2

ROCHISTER NEW HAMPSHEE

ANAGONOST PROFERIES

MANCHESTER NEW HAMPSHEE BUILDINGS E & F 30 INITS 9 IDRUS - 9 TWOS - 12 ONES

3 REAR ELEVATION



TAX MAP 256A LOTS 66, 66-F TO H, M, & 65

# APARTMENT ELEVATIONS

PREPARED FOR/LAND OF:

THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER, NH

SCALE: 1" = 30' JANUARY 8, 2019 SHEET 25 OF 33

Bedford Design Consultants Inc.

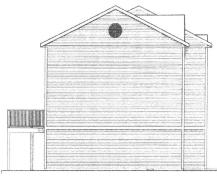
ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-5533 Fax: (603) 622-4740

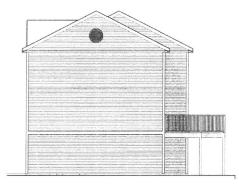
www.bedforddesign.com



REAR ELEVATION
SCALE 16" = 11-0"



LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



FRONT ELEVATION

DO NOT SCALI\_DRAWING USE WRITTEN DIMENSIONS WHERE THERE ARE NO DIMENSIONS PROVIDED.

CONSULT ARCIDITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

BURNELL JOHNSON

A R C H I T L C T S

SO STARK SINEET MANCHESTER N H
(803) -625-6069 10-625-607-67x

The Village at Clark Brook LLC

Rochester. New Hampshire

DATE DESCRIPTION BY REV.

TAX MAP 256A LOTS 66, 66-F TO H, M, & 65

# CONDOMINIUM ELEVATIONS

PREPARED FOR/LAND OF:

THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER, NH

SCALE: 1" = 30' JANUARY 8, 2019 SHEET 26 OF 33

DESIGN: DRAWN: CHECKED: FB: PG: 1130-04

### ### ### ### ### 1130-04

Bedford Design Consultants Inc.
ENGINEERS AND SURVEYORS
177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-533 Fax: (603) 622-4740
www.bedforddeslgn.com

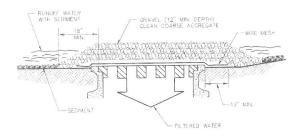


# GENERAL CONSTRUCTION NOTES:

- BOTH THE CONTRACTOR AND OWNER NEED TO SUBMIT A SEPARATE "NOTICE OF INTENT" TO BE COVERED BY THE NUMBER OF SENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDAR SPECIFICATIONS (LATEST EDITION) AND LOCAL RECULATIONS.
- 4. ANY SUBSTITUTIONS OF MATERIALS SHALL BE APPROVED BY THE ENGINEER IN WRITING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS PRIOR TO BEGINNING WORK
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- SHOULD GROUND WATER OR UNSUITABLE MATERIALS BE ENCOUNTERED DURING CONSTRUCTION. THE ENDINEER SHALL BE CONTACTED IMMEDIATELY FOR DETERMINATION OF POSSIBLE CONSTRUCTION DESIGN CHANGES SUCH AS (BUT NOT LIMITED TO) UNDERDRAINS OR ALIGNMENT AND GRADE CHANGES.
- CLEARING THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OF DOWN TIMBER, RUBBISH AND DEBRIS FOUND EMSTING WITHIN THE AREAS TO BE CLEARED CLEARING SHALL NOT TAKE PLACE UNIT. THE CONTRACTOR HAS DETERMINED FROM THE OWNER WHICH THES ARE TO BE SAVED WITHIN THE CLEARING LIMITS.
- PAVEMENT OF THE ROADWAY SHALL CONSIST OF A HOT BITUMINOUS LAYER, A CRUSHED GRAVEL LAYER AND A GRAVEL SUBBASE LAYER
- A, BITLMINOUS TYPE F WEARING AND TYPE B BASE COURSES SHALL BE CONSTRUCTED PER N.H.D.O.T. SPECIFICATION 401 CONSTRUCTION REQUIREMENTS OF STATE OF THE CRUSHED GRAVEL SHALL MEET THE REQUIREMENTS OF N.H.D.O.T. 304.2 C. THE CRUSHED GRAVEL SHALL MEET THE REQUIREMENTS OF N.H.D.O.T. 304.3 D. REFER TO THE TYPE ACCOUNTS SECTION DETAIL FOR DIMENSIONS.

- 9. COMPACTION OF BACKFILL:
- A. GRASSED AREAS.

  EMBANKMENT FILL AREAS SHALL CONSIST OF COMMON FILL PLACED IN 12 INCH LIFTS AND COMPACIED TO 90%
- PRODUNATE OF THE PROPERTY OF THE PRODUCT OF THE PRODUCT OF THE COMPACTION REQUIREMENTS FOR MATERIALS PLACED AS BACKFILL, SUBGRADE, BASE COURSE AND THE COMPACTION SHALL BE AS SPECIFIED FOR EACH SEPARATE ITEM IN THE N.H.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
- CAICH BASINS AND MANHOLES SHALL BE PRE-CAST REINFORCED CONCRETE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE AND ABLE TO WITHSTAND LOADINGS OF 8 TONS (H-Z0 LOADING)
- TRENCH CONSTRUCTION WILL CONFORM WITH SECTION 603.3.1. OF THE N.H.D.O.T. STANDARD SPECIFICATIONS (LATEST EDITION).
- 13 TRENCH BEDDING SHALL CONFORM WITH SECTION 603.3.2. OF THE STANDARD SPECIFICATIONS (LATEST EDITION) FIRST CLASS BEDDING WILL BE REQUIRED FOR ALL PIPES 48' OR MORE IN DIAMETER OR SPAN.
- BACKFILL MATERIAL FOR TRENCHES WILL CONFORM WITH SECTION 603.3.5 OF THE STANDARD SPECIFICATIONS (LATEST EDITION) AND IN ADDITION, SHALL EXCLUDE DEBRIS, PIECES OF PARKMENT, ORGANIC MATTE, TOP SOLL ALL WELL OR SOTT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, ALL ROCKS OVER SIX INCHES IN LARCEST DIMENSION. OR ANY MATERIAL WHICH AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION BACKFILL SHALL NOT BE PLACED ON PROZEN MATERIAL.
- 15. COMPACTION OF TRENCH BACKFILL AND PIPE BEDDING SHALL BE SIX INCH LIFTS FOR BEDDING AND BACKFILL TO A PLANE ONE FOOT ABOVE THE PIPE AND IN 12 INCH LIFTS THEREAFTER BY AN APPROVED MECHANICAL COMPACTOR
- 18 SHOULD FROZEN MATERIAL BE ENCOUNTERED, IT SHALL NOT BE PLACED IN THE BACKFILL NOR SHALL BACKFILL BE PLACED UPON FROZEN MATERIAL.
- THE DISTURBED AREA SHALL BE KEPT TO A MINIMUM. DISTURBED AREAS REMAINING DEE FOR MORE THAN 30 DAYS SHALL DE STABILIZED.
- 18. ALL SEEDED AREAS SHALL BE MULCHED WITHIN 24 MOURS AFTER SEEDING A GOOD QUALITY OF STRAW MULCH SHOULD BE USED AND APPLIED AT THE RATE OF 2 TONS PER AGRE.
- 19. BASIN FLOORS IN THE INFLITATION BASINS ARE TO BE DEEPLY TILLED TO RESTORE INFLITATION RATES. FOLLOWED BY A PASS WITH A LEYEUNG DRAG PRIOR TO FINAL SEEDING. STORWWATER FLOWS SHALL NOT BE DIRECTED TO THE INFLITATION BASINS, SWALES, OR DITCHES UNTIL THE BASINS AND ALL CONTRIBUTING AREAS HAVE BEEN FULLY STARBLYED.
- 20. ALL SLOPES GREATER THAN 3.1 MUST BE MATTED WITH NORTH AMERICAN GREEN SISOBN EROSION CONTROL BLANKETING
- THE CITY OF ROCHESTER RESERVES THE RIGHT TO REQUIRE THAT ADDITIONAL EROSION CONTROL MEASURES BE INSTALLED DURING CONSTRUCTION BASED ON FIELD OBSERVATIONS/INSPECTIONS.



### MAINTENANCE:

- ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY.

  SEDMENT SKOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDMENT HAS REACHED A MAXIMUM OF ONE HALF OF THE DEPTH OF THE TRAP. THE SEDMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY DITHER STRUCTURE. OF VEGETATIVE MEANS.

  THE EMPRISH TRAPS SHOULD BE REMOVED AND THE ARTA REPAIRED AS SOON AS THE CONTINUE DRAINAGE AREA TO THE INJECT HAS BEEN COMPLETELY STABILIZED. ALL STRUCTURES WITH INJECT PROTECTION MUST BE CICEARED AT THE END OF CONSTRUCTION AND WHEN THE SITE IS FULLY STABILIZED.

# GRAVEL DROP INLET SEDIMENT FILTER DETAIL



## CONSTRUCTION SEQUENCE:

- MANDATORY PRECONSTRUCTION MEETING SHALL BE HELD WITH THE TOWN, CONTRACTOR, OWNER, AND ALL ILITY REPRESENTATIVES PRIOR TO CONSTRUCTION. NO WORK SHALL BEGIN UNTIL APPROVAL BY THE HIGHWAY
- MENT HAS BEEN OBTAINED. BREA FOR CONSTRUCTION ENTRANCE AND INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON
- ND CLEAR TREES IN CONSTRUCTION AREAS ONLY.
- NISTALL SELT FERNÉ

  REMOVE STUMPS FROM SITE FOR SITE CRADING (OUT AND/OR FILL) TO SUBGRADE, STABILIZE AREAS WITH BASE

  GRAVEL MITHIN SIX WEEKS OF REMOVING STUMPS.

  THE MAXIMUM UNSTABILIZED AREAS SHALL BE LEMITED TO THE MINIMUM AREA PRACTICABLE FOR SITE CONSTRUCTION

  (NOT TO EXCEDE 5 A ACRES), NO AREA SHALL BE LETT UNSTABILIZED MORE THAN 6 WEEKS. AN AREA SHALL BE

  CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS HAPPERED:

  B. A MINIMUM OF 85% VECTTATED GROWTH HAS BEEN ESTABLISHED;

  C. A MINIMUM OF 85% ON NON-CROSNEY MATERIAL SUCH AS STONE OR RIP—RAP HAS BEEN INSTALLED;

  O. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

- DONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES AS PER THE MOTIES IN THESE DEADINGS EROSION, SEDIMENT, AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY FACILITY OF THE MOTION OPERATION.

  A. SLIFTRIA FINED SWALES

  B. RIP RAF LINED SWALES

  C. RIP RAF LIPROS AT COLVERT OUTLETS

  D. TREADERT SWALES

  L. DETENTION PONDS

- ALL DICHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNGET TO THEM.

  1F. DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION AND SEDMENT CONTROL MEASURES.

  1F. DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION AND SEDMENT CONTROL MEASURES.

  1F. DURING CONSTRUCTION TO THE CONSTRUCTION STED DUE TO ACCULATE USE CONDITIONS, THE OWNER.

  SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION AND SEDMENT CONTROL MEASURES.

  SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION AND SEDMENT CONTROL MEASURES.

  BY A PASS WITH A LEVELING DRAG FRICH TO FINAL SEEDING. STORMWATER FLOWS SHALL NOT BE DIRECTED TO THE INFLITATION BASINS, SWALES, OR DIVERSION CHANNES, AS NECESSARY.

  CONSTRUCT TEMPORARY OUT WITHOUT AND STORM DRAINES, AS NECESSARY.

  CONSTRUCT CONSTRUCT OF THITES AND STORM DRAINAGE AS NECESSARY.

  CONSTRUCT CONSTRUCT OF THITES AND STORM DRAINAGE AS NECESSARY.

  MODIFY FERSONS CONTROL MEASURES.

  BEON PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH, ALL CUT AND FILL SLOPES SHALL BE STABILIZED.

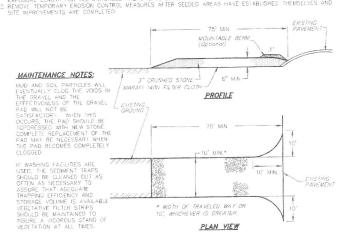
- CON PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH. ALL CUT AND HILL SLOPES SHALL BE TABLIZED.

  TABLIZED AS NECESSARY.

  ALL PARKING AREAS AS SPECIFIED ON THE PLAN.

  AVE ALL PARKING AREAS AS SPECIFIED ON THE PLAN.

  BYECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROLS NEED TO BE INSPECIFED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL DOMPLETE PERMANENT SECRIFICATION AND LABORATION AND AND APPROPRIED THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE MEASURES AND TEMPORARY EROSION CONTROL MEASURES AFTER SECRED AREAS HAVE ESTABLISHED THEMSELVES AND TEMPORARY EROSION CONTROL MEASURES AFTER SECRED AREAS HAVE ESTABLISHED THEMSELVES AND TEMPORARY EROSION CONTROL MEASURES AFTER SECRED AREAS HAVE ESTABLISHED THEMSELVES AND TEMPORARY EROSION CONTROL MEASURES AFTER SECRED AREAS HAVE ESTABLISHED THEMSELVES AND TEMPORARY EROSION CONTROL MEASURES AFTER SECRED AREAS HAVE ESTABLISHED THEMSELVES AND



# PLAN VIEW STABILIZED CONSTRUCTION ENTRANCE:

### CONSTRUCTION SPECIFICATION

- (2) BE PLACED AT A THICKNESS OF 2 INCHES OR MORE.

  (3) THE MINIMUM STONE USED SHALL BE 3-INCH CRUSHED STONE;

  (3) THE MINIMUM LENGTH OF THE PAD SHALL BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50
  FEET F A 3-INCH TO 65-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE;

  (C) THE PAD SHALL EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR TO FEET, WHICHEVER IS GREATER;

  (D) THE PAD SHALL EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR TO FEET, WHICHEVER IS GREATER;

  (E) THE PAD SHALL BLOFF AWAY FROM THE EXISTING ROADWAY;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHALL BE AT LEAST 6 INCHES THICK;

  (E) THE PAD SHAL
- A GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
- AND
  THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH
  THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT
  HAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WILL PREVENT TRACKEN OF FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. THIS MAY MAY REQUIRE PRIDDIC
  WILL PREVENT TRACKEN OF THE STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES
  USED TO TRAP SEDIMENT, ALL SEDIMENT SPILLED, WASHED, ON TRACKED ONTO PUBLIC RIGHT- OF-WAY MUST BE
  PRIMOVED PROMPTLY.
- MEMOVED PROMPILE.

  (H) ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

# COLD WEATHER STABILIZATION

- STABLUZATION TECHNOLOGY THE AREA OF EXPOSED, UNSTABLUZED SOIL SHALL BE LIMITED TO ONE AGRE, AND SUBJECT TO (C). BELOW, THE AREA OF EXPOSED, UNSTABLUZED SOIL SHALL BE LIMITED TO ONE AGRE, AND PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT
- SUBJECT TO (C) BELOW, THE AREA OF EXPOSED, UNISTABLED SOIL SHALL BE LIMITED TO DRE ACCES, AND PROTECTED ACAINST ERGOSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SHRING MELT EVENT.

  THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN IS DEVELOPED BY A QUALIFIED ENGINEER OF A OPEN SECRETARY OF THE PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% THAT SUBJECT EXHIBIT A MINIMUM OF BS% VEGETATIVE GROWTH BY OCTOBER 15, OR THAT ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH A TO CITORER 15, OR THAT ARE DISTURBED AFTER OF THAN ANCHORD NETTING OR TACKFER OR WITH AT LEAST 2 INCRES OF EROSION CONTROL MIX MEETING. THE CONTROL OF ENV—WO 1506 05(B) SUBJECT TO (F) AND (C), BELOW, ALL PROPOSED VEGETATIVE AREAS HAVING A SLOPE OF 15% OR GREATER THAT DO NOT EXHIBIT A MINIMUM OF BS% VEGETATIVE GROWTH BY OCTOBER 15, OR THAT ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH A PROPERTY INSTALLED AND ANCHORED EROSION CONTROL MIX MEETING. THE CONTROL OF THE PROPOSED STABLE OF THE ACCOUNTED ON THE CONTROL OF THE ACCOUNTS OF THE ACCOUNT

- CONSULTAY

  CONSULTAY

  AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR

  AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR

  AFTER OCTOBER OF THE ACTIVE OF THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3-INCH LEVER OF

  BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF WHOD ISTANDARD SPECIFICATION FOR ROAD

  AND BRIDGE CONSTRUCTION. 2016, TABLE 30-1-1, ITEM NO 30-1, 30-42, OR 30-4.

  ALL TORSOIL STOCKPILED SHALL BE MULCHED PRIOR TO ANY SNOW EVENT. STANDARD PROTECTION OF STOCKPILES

  AS DESCRIBED IN OTHER SECTIONS APPLIES.
- IN THE EVENT OF SNOWFALL (FRESH OR COMMUNITYE) GREATER THAN I INCH DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

# GENERAL EROSION CONTROL NOTES:

- PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS; STORMMATER TREATMENT PONDS AND DRAINAGE SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE

- SITE;
  RUNDER MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPS ARE STABILIZED;
  BASNS, DITCHES AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNDER TO THEM.
  ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVAN FINISHED GRADE;
  CUT AND FILE SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVAN FINISHED GRADE;
  ALL AREAS OF UNSTABILIZED SOIL MUST BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45
  DAYS OF INITIAL DISTURBANCE.
  ERDISON CONTROL PRACTICES MUST BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5

- OR C. EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH ENV-WO 1506.03, AND IN AREAS TO BE PAVED, STABLE MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.

# TEMPORARY SEDIMENT TRAP. TEMPORARY SEDIMENT TRAPS SHALL COMPLY WITH THE FOLLOWING:

- (A) THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SQURCE OF SEDIMENT AS POSSIBLE;
  (B) THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 AGRES;
  (C) THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE
  AREA;
  (D) THE SIDE SLOPES OF THE TRAP SHALL BE 3;1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR
  CONSTRUCTION;
- CONSTRUCTION:

  (E) THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.

  (F) THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED, AND

  (G) THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.

## CONSTRUCTION DEWATERING. DEWATERING SHALL COMPLY WITH THE FOLLOWING:

- (A) THE DISCHARGE SHALL BE STOPPED IMMEDIATELY IF THE RECEIVING AREA SHOWS ANY SIGN OF INSTABILITY OR
- (B) ALL CHANNELS, SWALES, AND DITCHES DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA SHALL BE STABLE PRIOR TO DIRECTING DISCHARGE TO THEM,
- STABLE PRIOR TO DIRECTING DISCHARGE TO THEM,

  (C) IF A CONSTRUCTION EQUIPMENT BUSCRET IS USED, IT SHALL EMPTY THE MATERIAL TO A STABLE AREA,

  (D) NO DEWATERING SHALL GCOUR DURING PERIODS OF INTENSE, HEAVY RAIN,

  (E) FLOW TO THE SEDIMENT REMOVAL STRUCTURE SHALL NOT EXCEED THE STRUCTURE'S CAPACITY TO SETTLE AND

  FILER FLOW OR ITS VOLUME CAPACITY; AND
- FILTER FLOW OR ITS VOLUME CAPACITY; AND

  (F) WHEREVER POSSIBLE, THE DISCHARGE FROM THE SEDIMENT REMOVAL STRUCTURE SHALL DRAIN TO A

  WELL-VEGETATED BUFFER BY SHEET FLOW WHILE MAXIMIZING THE

  (G) DISTANCE TO THE NEAREST WATER RESOURCE AND MINIMIZING THE SLOPE OF THE BUFFER AREA

# TEMPORARY STORMWATER DIVERSION TEMPORARY STORMWATER DIVERSION SHALL COMPLY WITH THE FOLLOWING:

- (A) WHEN NECESSARY TO MINIMIZE RELEASE OF SEDIMENT—LADEN RUNCKF PRIOR TO STABILIZATION OF THE SITE THE PERMANENT STORMMATER MANAGEMENT SYSTEM COMPONENTS, SEDIMENT—LADEN WATER SHALL BE DIVERTED AND STORED IN TEMPORARY DIVERSION PRACTICES SUCH AS SEDIMENT BASINS OR TREACTED FIND TO RECEIVE AND STORED IN TEMPORARY DIVERSION PRACTICES SHALL BE STABILIZED PRIOR TO RECEIVE RUNCHFF; (C) TEMPORARY DIVERSION CHANNELS WITH A GRADIENT OF 2 PERCENT OR GREATER SHALL BE STABILIZED HOWEVER CHANNELS WITH A SLOPE OF LESS THAN 2 % SHALL BE STABILIZED DONLY IF EROSION IS OBSERVED; (E) THE AREA DRAINING TO EACH TEMPORARY DIVERSION PRACTICE SHALL BE LESS THAN 3 ACRES; (E) TEMPORARY DIVERSION CHANNELS SHALL CONTAIN, THE 2-YEAR, 24 HOUR DESIGN STORM WITHOUT OVERTOPHING THE BANKS; (F) THE BED SLOPE OF DIVERSION CHANNELS SHALL HAVE A POSTIVE ORADE TO ASSURE DRAINAGE; (C) WHERE DIVERSIONS CARRY CONCENTRATED FLOWS, EXERCY DISSIPATION METHODS SHALL BE IMPLEMENTED TO DISPERSE FLOW INTO AREAS DOWNSTREAM OF THE DISTURBED AREA; (I) IF EROSION OF DIVERSION PRACTICES OCCURS DURING CONSTRUCTION, CORRECTIVE ACTION SHALL BE TAKEN TO

- (H) IF ERDISION OF DIFFESION PRACTICES OCCURS DURING CONSTRUCTION, CORRECTIVE ACTION SHALL BE TAKEN TO STABLES. THE BASIN, CHANNELL AND BERN; AND
- (I) DIVERSION BASINS AND TRENCHES SHALL BE CLEARED OF SEDIMENT WHENEVER SEDIMENT ACCUMULATES.

# SEEDING/MULCHING OF DISTURBED AREAS TEMPORARY AND PERMANENT MULCHING. MULCHING SHALL COMPLY WITH THE FOLLOWING:

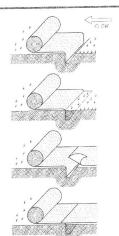
- (A. HAY AND STRAW MULCHES SHALL BE ANCHORED WITH MULCH NETTING OR TACKFER SO THAT THEY ARE NOT BLOWN MAYER: BY WIND OR WASHED AWAY BY FLOWING WATER:

  (B. MULCH MATERIALS SHALL BE SELECTED BASED UPON SOILS, SLOPE, FLOW CONDITIONS, AND TIME OF YEAR, G. HAY OR STRAW MULCH SHALL BE APPLIED AT A RATE OF 1.5 TO 2 TONS PER ACSE, EQUIVALENT TO 70 TO 90 POUNDS PER 1,000 SOLWARE FEET,
- PRODUCTION THAT HAVE SHALL BE APPLIED AT 2 TO 6 INCHES BEEP AT A RATE OF 10 TO 20 TONS PER ACRE, EDITABLENT TO 460 TO 920 POUNDS PER 1,000 SOUARE FEET; MER MURE, EQUIVALENT TO MED TO YOU MODIFIES MENT TOUGH SQUARE FEET; (E. JUTE AND THROUS MATS AND WOOD EXCELSION SHALL BE INSTALLED ACCORDING TO THE APPLICABLE MANUFACTURER'S INSTRUCTIONS, AND
- EROSION CONTROL MIX SHALL: (1) WEET THE CRITERIA OF ENV-WO 1506.05(E); AN

# (2) BE PLACED AT A THICKNESS OF 2 INCHES OR MORE.

- ALL ESSENTIAL GRADING AND TEMPORARY STRUCTURES, SUCH AS DIVERSIONS, DAMS, DITCHES, AND DRAWS MEDDED TO PREVENT COLLYING AND REDUCE SETATION, SHOULD BE COMPLETED PRIOR TO SEEDING STONES AND TRASH SHALL BE REMOVED FROM THE AREA TO BE SEEDED SO AS NOT TO INTERFERE WITH THE SEEDING.
- SEEDING:
  TILL HE SOIL TO A DEPTH OF ABOUT FOUR (4) INCHES TO PREPARE A SEEDED AND MIX FERTILIZER INTO THE
  SSOIL THE SEEDRED SHOULD BE LEFT IN A FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD
  SEE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL
  WE SLOPES AT I'VE STEEDER FINIL PREPARATION OF THE AREA TO BE SEEDED SHALL INCLUDE CREATING
  TROOVES IN THE SOIL PERPERINDICULAR TO THE ORIENTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNDIFF,
  TREDUCES IN THE SOIL PERPERINDICULAR TO THE ORIENTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNDIFF,
  TREDUCED IO ENSURE GROWTH, FERTILIZER OR OTHER ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING
  THE GROWING SEASON.
- THE GROWING SEASON.
  FERRILER APPLIED TO ANY AREA WITHIN 100 FEET OF ANY MINER, STREAM, POND, OR LAME SHALL BE LOW
  PHOSPHATE, SLOW RELEASE INTROGEN FERTILIER ONLY:
  FERTILIZER APPLIED TO ANY AREA THAT IS SUBJECT TO RSA 48.T—B. THE COMPREHENSIVE WATER QUALITY
  FERTILIZER APPLIED (ACT), SHALL MEET OR BE WORE PROTECTIVE OF WATER QUALITY THAN THE MINIMUM STANDARDS
  PHOTECTION ACT (ACT), SHALL MEET OR BE WORE PROTECTIVE OF WATER QUALITY THAN THE MINIMUM STANDARDS
- OF THE ACT; ALL SEEDET AREAS SHALL BE FERTILIZED, FERTILIZATION SHALL BE AT THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER. ALL GRADED AREAS SHALL BE SEEDED WITH:

  - 1 TALL FESCUE: 20 POUNDS PER ACRE 2 CREEPING PED FESCUE: 20 POUNDS PER ACRE 3 EMBSFOOT TREFOL: 8 POUNDS PER ACRE 4 TOTAL 48 POUNDS PER ACRE LIVE SEED
- SEED SHOULD BE SPREAD UNFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE, METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING, WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 IN. OF SOU OR LESS, BY OULTPACKING OR RAKING.
  RUNGFF SHALL BE DIMERTED FROM THE SEEDED AREA;
  SUBJECT TO (N) BELOW, SEEDING SHALL OCCUR PRIOR TO SEPTEMBER 15TH OF THE YEAR IN WHICH THE AREA BEING SEEDED BOTTOMBEN SHALL OCCUR PRIOR TO SEPTEMBER 15TH OF THE YEAR IN WHICH THE AREA BEING SEEDED BETWEEN MAY 15TH TO AUCUST 15TH SHALL BE COVERED WITH HAY OR STRAW MULCH MEETING THE CRITERIA OF EWI-WO 1506.01(A) THROUGH (C), AND IT YECTATED GROWTH COVERNO AT LEAST 195% OF THE DISTURBED AREA IS NOT ACHIEVED PRIOR TO OCTOBER 15TH, ONE OR MORE ADDITIONAL EROSION CONTROL METHODS SHALL BE IMPLEMENTED.



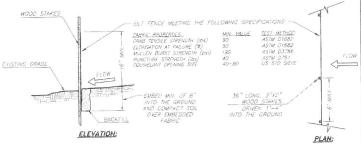
- OVERLAP BURY UPPER END OF LOWER STRIP AS IN "A" AND "B". OVERLAP END OF TOP STRIP 4 INCHES AND STAPLE.
- EROSION STOP FOLD OF JUTE BURIED IN SILT TRENCH AND TAMPED; DOUBLE ROW OF STAPLES
- F. STAPLE OUTSIDE EDGE ON 2 INCH CENTERS
- NES AND TRASH SHALL BE REMOVED FROM THE AREA TO BE SEEDED SO AS NOT TO INTERFERE WITH SEEDING:
- ANKETS SHALL BE.

  PLACED WITHIN 24 HOURS AFTER SOWNS SEED IN THE AREA BEING COVERED.

  ILLIAO LOOSELY OVER THE SOULS MAINTAINING CONTACT WITH THE SOUL, AND NOT STRETCHED; AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND THE FOLLOWING, EVEN IF NOT IN THE MANUFACTURER'S SPECIFICATIONS AND THE FOLLOWING, EVEN IF NOT IN THE MANUFACTURER'S INSTRUCTIONS

  OBJANKETS SHALL BE ANCHORED AT THE TOP OF THE SLOPE IN A TRENCH: AND BEAURETS SHALL BE UNROLLED IN THE DIRECTION OF THE WATER FLOW, OVERLAPPING THE EDGES AND STAPLING.

EROSION CONTROL MATTING DETAIL:



### CONSTRUCTION NOTES:

- A FINCES SHALL BE LISED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE S NO CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY ABOVE THE FENCE;

  THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1/4-ACRE PER 100 LINEAR FIET OF FENCE.

  THE MAXIMUM SENCTH OF THE SLOPE ARDOVE THE FENCE SHALL BE 100 FEET;

  THE MAXIMUM SLOPE OF THE AREA ABOVE THE FENCE SHALL BE 2:1;

  E FENCES SHALL BE INSTALLED AS FOLLOWS:

  1. FENCES SHALL BE INSTALLED AS FOLLOWS:
  2. THE ENDS OF THE FENCE SHALL BE FLARED UP-SLOPE;

  3. THE BASE OF THE FENCE SHALL BE:
  4. FENCES SHALL BE SHOULD WITH CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE;
  6. FENCES SHALL BE SECRIFICATION OF A TRENCH THAT IS EXCAVARED AT INCHES OF THE FENCE IS PLACED ALONG THE BOTTOM OF A TERMOH THAT IS EXCAVARED AT INCHES DEEP INTO THE GROUND, WITH THE SOIL COMPACTED OVER THE EMBEDDED FARME, OR THE STEEP CONDITIONS INCLUDE "AND THE STEEP CONDITIONS INCLUDE "AND THE STEEP CONDITIONS INCLUDE "AND THE STEEP CONDITIONS INCLUDE "ONLY OF THE PRESENCE OF HEAVY ROOTS, EMBEDDED IN A MINIMUM THEOMESS OF ENGLES OF A "ENGLES OF THE PRESENCE OF HEAVY ROOTS, EMBEDDED IN A MINIMUM THEOMESS OF ENGLES OF A "ENGLES OF KANDES STEEP SHALL BE STEEP AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS; AND

- A MINIMUM THICKNESS OF 8 INCHES OF WINCH STORES TO STAND LEDGE, OR THE PRESENCE OF HEAVY ROOTS, EMBEDDED IN A SUPPORT POSTS SHALL BE SIZED AND ANCHORD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS; AND SUCKING SECTIONS OF THE FENCE SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED TO A SUPPORT POST. INSPECTED AND MAINTAINED IMMEDIATELY AFFER EACH RAINFALL AND AT LEAST DAILY DURING PROCESS SHALLARD AT LEAST DAILY DURING PROCESSES AND ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY; AND SEDMENT HAT ACCUMULATES AT THE FENCE SHALL BE REMOVED WITH SUFFICIENT FROULANCY TO PREVENT THE DEPTH OF THE SEDWENT FROM PRACHANCY ONE—THIRD THE HEIGHT OF THE FENCE.
  INSTALL FENCE ON THE SILL FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE LIFE OF THE FENCE. THE FARRIC ON THE SILL FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE LIFE OF THE FENCE. THE FARRIC SHALL BE PROMISTLY REPLACED.

  FENCE, THE FARRIC SHALL BE PROMISTLY REPLACED.

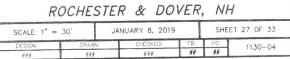
  SEDMENT DEPOSITS THAT ARE REMOVED OR LIFT IN PLACE AFTER THE BARRIER HAS BEEN DISMANILED SHALL BE ORRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED USING THE APPROPRIATE VEGETATIVE BMP.

# SILT FENCE DETAIL:

# TAX MAP 256A LOTS 66, 66-F TO H, M, & 65 DETAIL SHEET 1

PREPARED FOR/LAND OF: THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC

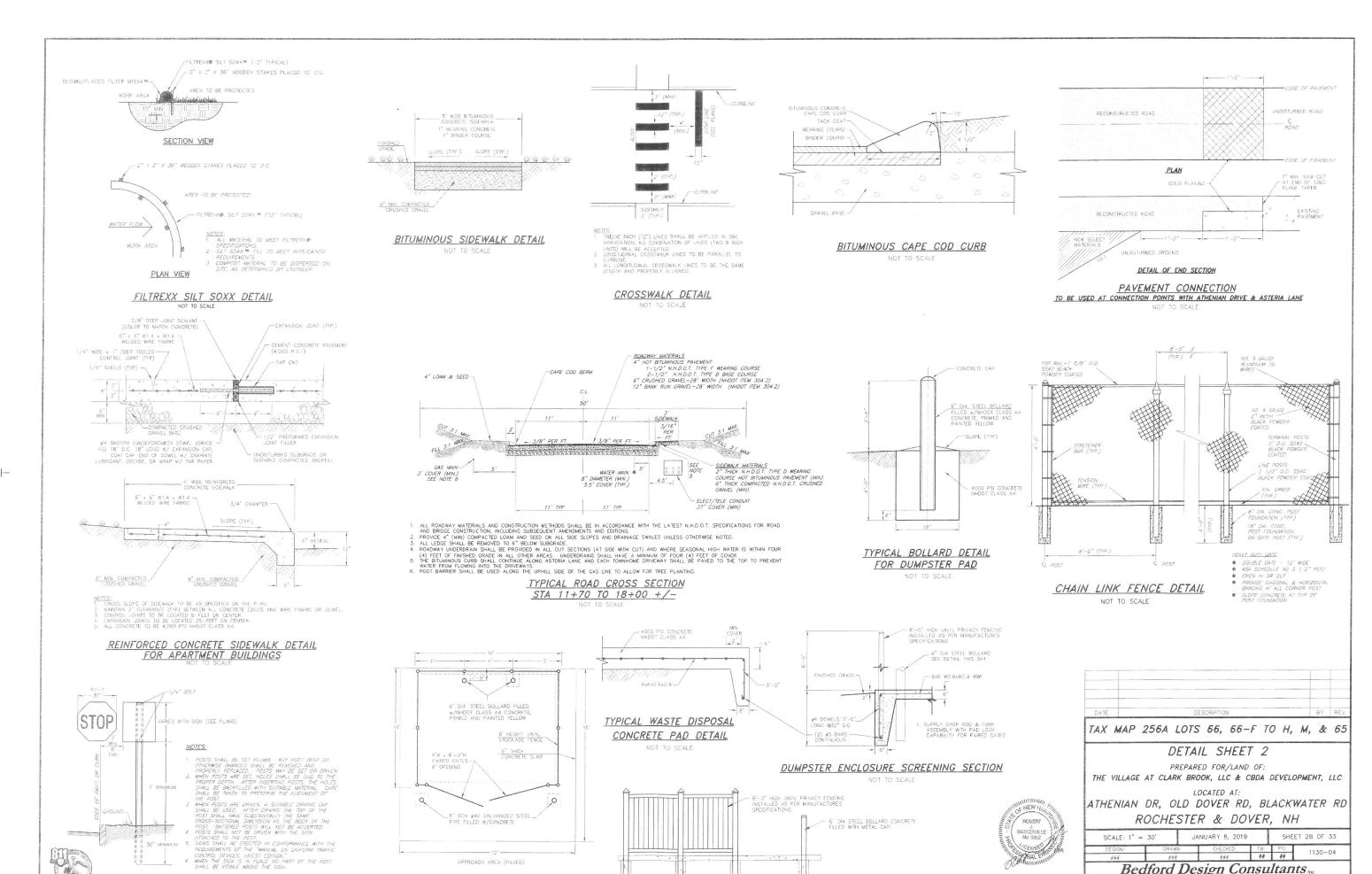
LOCATED AT: ATHENIAN DR, OLD DOVER RD, BLACKWATER RD



Bedford Design Consultants ENGINEERS AND SURVEYORS 177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com







DUMPSTER ENCLOSURE DETAIL

NOT TO SCALE

TRAFFIC SIGN DETAIL

ENGINEERS AND SURVEYORS
177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-5533 Fax: (603) 622-4740

### DETENTION POND CONSTRUCTION:

FOUNDATION PREPARATION

— THE FOUNDATION AREA SHALL BE CLEARED OF TREES, LOCS, STUMPS, ROOTS, BRUSH, BOULDERS, SOD, AND RUBBSH IF MEDDED TO ESTABLISH VEGETATION. THE TOPSOIL AND SOD SHALL BE STOCKPILED AND SPIREAR ON THE COMPLETED SLOPES AND SPILLWAYS FOUNDATION AREA SHALL BE THOROUGHLY SCARRIED BEFORE PLACEMENT OF THE MATERIAL. THE SURFACE SHALL HAVE MOSTURE ADDED OR IS SHALL BE COMPACTED IN PROCESSARY SO THAT THE FIRST LAYER OF FILL MATERIAL CAN BE COMPACTED AND BONDED TO THE FOUNDATIONS.

- FOUNDATION AREAS SHALL BE KEPT FREE OF STANDING WATER WHEN FILL IS BEING PLACED ON THEM.

FILL PLACEMENT

— THE MATERIAL PLACE IN THE FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS,
FROZEN SOL, STONES MORE THAN 6 INCHES IN DIAMETER (EXCEPT FOR ROCK FILLS), AND OTHER
OBJECTIONABLE MATERIAL.

- SELECTED BACKFILL MATERIAL SHALL BE PLACED 4ROUND STRUCTURES, PIPE CONDUITS, AND ANTISEP COLLARS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL DIADRAG.

— THE PLACING AND SPREADING OF FILL MATERIAL SHALL BE STATED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL BROUGHT UP IN HORIZONTAL LAYERS. PLACE MAXIMUM 8" LIFTS COMPACTED 10 93% MAXIMUM PROCTOR DENSITY. THE FILL SHALL BE CONSTRUCTED IN CONTINUOUS HORIZONTAL LAYERS EXCLPT WHERE OPENINGS OF SECTIONALIZED FILLS ARE REQUIRED IN THOSE CASES. THE SLOPE OF THE PODDINGS SURFACES BETWEEN THE EMBANMENT IN PLACE AND THE EMBANMENT TO BE PLACED SHALL NOT BE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL THE SONDING SURFACE SHALL BE ITERATED THE SAME AS THAN SHORZONTAL TO 1 VERTICAL THE SONDING SURFACE SHALL BE ITERATED THE SAME AS THAN SPECIFIED FOR THE FOUNDATION SO AS TO INSURE A GOOD BOND WITH THE NEW FILL.

THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY IN TEXTURE OF GRADATION FROM THE SUPROUNDING MATERIAL IF IT IS NECESSARY TO USE MATERIALS OF VARNING TEXTURE AND GRADATION, THE MOST IMPERVIOUS MATERIAL SHALL BE PLACED IN THE CENTER AND JUSTICEAM PARTS OF THE FILL IF ZOMED FILLS OF SUBSTANTIALLY DIFFERNING MATERIALS ARE SPECIFIED, THE ZOMES SHALL BE PLACED ACCORDING TO THE LINES AND GRADES SHOWN ON THE DRAWINGS THE COMPLETE WORK SHALL CONFORM TO THE LINES, GRADES, AND ELEVATIONS SHOWN ON THE DRAWINGS OR AS STAKED IN THE FIELD.

MOISTURE CONTROL

- THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED
COMPACTION MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT AND
MATERIAL THAT IS TOO DRY SHALL HAVE WATER ADDED AND MIXED UNTIL THE REQUIREMENT IS MET.

COMPACTION — CONSTRUCTOR EQUIPMENT SHALL BE OPERATED OVER THE AREAS OR EACH LAYER OF FILL TO INSURE THAT THE REQUIRED COMPACTION IS OBTAINED. SPECIAL EQUIPMENT SHALL BE USED IF NEEDED TO CHEAT THE REQUIRED COMPACTION.

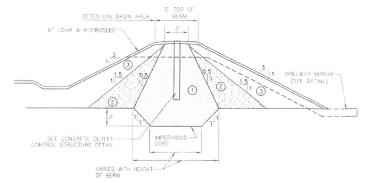
- IF A MINIMUM REQUIRED DENSITY IS SPECIFIED, EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY.

- FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, AND ANTISEEP COLLARS SHALL BE COMPACTED TO A DENSITY EDUIVALENT TO THAT OF THE SURROUNDING FILL BY MEANS OF HAND TAMPING OR MANUALLY DIRECTED POWER TAMPER OR PLATE VIBRATORS.

PROTECTION

A PROTECTIVE COVER OF VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SURFACES OF THE
EMPANKMENT, SPILLWAY, AND BORROW AREA IF SOIL AND CLIMATIC CONDITIONS PERMIT IF SOIL OR
CLIMATIC CONDITIONS PRECLUDE THE USE OF VEGETATION AND PROTECTION IS NEEDED,
NON-VEGETATIVE MEANS, SUCH MULCHES OF GRAVEL, MAY BE USED. IN SOME PLACES, TEMPORARY
VEGETATION MAY BE USED UNTIL CONDITIONS PLEMMIT ESTABLISHMENT OR PERMANENT VEGETATION.
THE EMBANKMENT AND SPILLWAY SHALL BE FENCED IF NECESSARY TO PROTECT THE VEGETATION.

- SEEDBED PREPARATION, SEEDING, FERTILIZING, AND MULCHING SHALL COMPLY WITH THE APPROPRIATE VEGETATIVE BMPS



# DETENTION POND MAINTENANCE

. THE EMBANKMENT SHOULD BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS, OR EROSION OF THE FILL IS TAKING PLACE.

THE VEGETATED AREAS OF THE STRUCTURE SHOULD BE PROTECTED FROM DAMAGE BY FIRE. GRAZING, TRAFFIC, AND DENSE WEED GROWTH-LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOLITESTS THESE AND SHRUBS SHOULD BE KEPT OFF THE EMBARKMENT AND EMERGENCY SPILLMAN AREAS.

3 PIPE INLETS AND SPILLWAY STRUCTURE SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPAIRED AS NECESSARY.

PIPE DUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY IF EROSTON IS TAKING PLACE THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.

SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THEN THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.

# BERM MATERIALS:

IMPERVIOUS CORE (CLAY, SILT & SAND) SHALL CONFORM TO AASHTO TZ? HAVING A COEFFICIENT OF PERMEABILITY OF 1 x 10 CM/SFC AND MEET THE GRADATION AS FOLLOWS: ROLLED TO 6" LAYERS (95% COMPACTION)

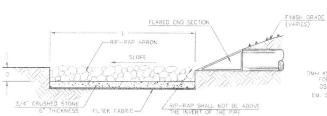
> PERCENT FINER SIEVE SIZE 30 TO 85 20 TO 50

FILTER LAYER F1 (SAND & FINE GRAVEL) PERCENT FINER SIEVE SIZE

EMBANKMENT MATERIAL SHALL CONFORM TO AASHTO MS7 AND MEET THE FOLLOWING GRADATION: 3. FILTER LAYER EMBANKMENT

PERCENT FINER	SIEVE SIZE 3 IN.
95 TO 100	2 IN.
55 TO 85	1 IN.
27 TO 52	#4
50 MAX.	#40
25 MAX.	#200

# TYPICAL DETENTION POND BERM CROSS-SECTION



CATCH BASIN IN CATCH BASINS IN NON-PAVED AREAS PAVEMENT OR STONE

PITTITIE

PROVIDE BRICK ADJUSTMENT COLLAR

PRE-CAST CONCRETE

SEAL W/NON-SHRINK GROUT

PRE-CAST CONCRETE
BASE SECTION

PAVEMENT AS SPECIFIED

"ELIMINATOR" CATCH BASIN HOOD, AS SUPPLIED BY PHOENIX



BOTTOM WIDTH (Wb)

SECTION A-A:

# FLARED END SECTION RIP-RAP APRON DETAIL



# RIP-RAP GRADATION TABLE:

### MAINTENANCE & CONSTRUCTION NOTES

ROCK RIP-RAP SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. THE IMMEDIATE AREA DOWNSTREAM FROM THE RIP-RAP SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING IF THE RIP-RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGE, IT SHOULD BE REPARED IMMEDIATELY BEFORE FURTHER DAMAGE CAN TAKE PLACE WOODY VEGETATION SHOULD BE REMOVED FROM THE ROCK RIP-RAP ANNUALLY BECAUSE TREE ROCTS WILL EVENTUALLY DISJODET THE ROCK RIP-RAP IF ON A CHANNEL BANK IT ILS STREAM SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT BARS THAT MAY CHANGE FLOW PATTERRS WHICH COULD DAMAGE OR DISPLACE THE RIP-RAP, REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE RIP-RAP.

### CONSTRUCTION SPECIFICATIONS

THE SUBGRADE FOR THE FILTER MATERIAL, GEOIEXILE FABRIC OR RIP-RAP SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS

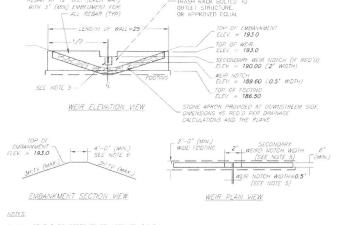
2. THE ROCK AND/OR GRAVEL USED FOR FILTER AND RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.

GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PURPORTURE OR TEARING DURING PLACEMENT OF THE ROCK RIP-RAP BY PLACING A CUSHION OF SAND AND DRAVEL GIVE THE FABRIC DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 IN.

4. STONE FOR THE RIP—RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MAINIER AS TO PREVENT DISPLACEMENT OF THE UNDERTYING MATERIALS HAND PLACEMENT MAY BE REQUIRED TO PREVENT DAMAGE TO ANY PERMANENT STRUCTURES.

STONES FOR RIP—RAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE—THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT FLAT ROOKS SHALL NOT BE USED FOR RIP—RAP.

6. VOIDS IN THE ROCK RIP-RAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.



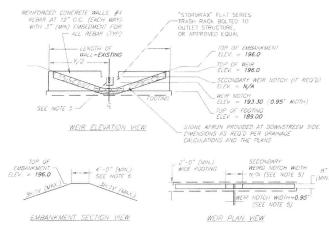
- ALL CEMENT CONCRETE TO BE 4000 PSI (MIN)
   THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING DESIGN DETAILS AND STEEL REINFORCING PREPARED BY A NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONSTRUCTION. COM FLOW STRUCTURE CAN BE USED 4T DETENTION BASINS WITH INFLOWS OF LESS THAN 3 CFS. CONTROL WEIRS SHALL BE CAST IN AS REQUIRED. MINIMUM CONCRETE WEIR WIDTH SHALL BE 2
- \*\* CONTROL WEIRS STAME OR CAST TO MIDDIE DESIGN STORM AS REQUIRED BY THE REQUIRATIONS

  5. CONTROL WEIRS(S) SHALL BE SIZED TO MIDDIE DESIGN STORM AS REQUIRED BY THE REQUIRATIONS

  AND IN ACCORDANCE WITH THE APPROVED DYNAMAGE CALCULATIONS STAMLESS STEEL PLATE SHALL BE USED FOR CONTROL WEIR LESS THAN 2 MICHES ATTACHED FOR EXHIBIT DIO? STAMLESS STEEL SHALL BE GRADE THE.

  5. MINIMUM EMBANAMENT ELEVATION TO BE 12" ABOVE 50-YEAR STORM ELEVATION.

## LOW FLOW OUTLET STRUCTURE AT POND 4 NOT TO SCALE

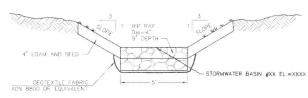


TOP WIDTH (WI)

PLAN

1. POIND 5 MAS CONSTRUCTED FOR THE FIRST PHASE OF THE VILLAGE AT CLARK BROOK ALL POIND INFORMATION IS THE SAME AS THE ORIGINAL APPROVAL, EXCEPT THE WEIR SIZE IS LARGER TO ACCOMMONITE A GREATER FLOW. THE MOTOH ON THE EXISTING WEIR WILL MEED TO BE MODIFIED TO THE ABOVE DIMENTISIONS.

# LOW FLOW OUTLET STRUCTURE AT POND 5



NOTES:
WIDTH OF SPILLWAY AND/OR WIDTH OF RIPRIP AS SPECIFIED ON THE PLANS.
HEFER TO THE MAINTENANCE AND CONSTRUCTION NOTES FOR ROCK RP-RAP FOR ADDITIONAL DETAILS.

ROCK RIPRAP SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, NODERMANED OR DAMAGED, IT SHOULD BE REFRAIRED IMMEDIATELY BEFORE FURTHER DAMAGE CAN TAKE PLACE, WOODVY VEGTATION SHOULD BE REMOVED FROM THE ROCK HIPRAP ANNUALLY BECAUSE THEE ROOTS WILL EVENTUALLY DISLODED THE ROCK RIPRAP, IF THE RIPRAP IS ON A CHANNEL BANN, THE STREAM SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBISS, AND SEDIMENT BARS THAT MAY CHANGE FLOW PATTERNS WHICH COULD DAMAGE OR DISPLACE THE RIPRAP REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE RIPRAP.

### CONSTRUCTION SPECIFICATIONS

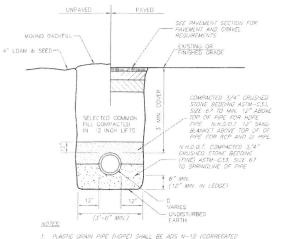
LINSINGLION SECUENCATIONS

THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC OR RIPRAP SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.

THE ROCK AND/OR GRAVEL USED FOR FILTER AND RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.

THE ROCK AND/OR GRAVEL USED FOR FILTER AND RIPRAP SHALL CONFORM TO THE SPECIFIED OF THE ROCK RIPRAP SHALL BE PROTECTED FROM FUNDITIES OF THE PLACEMENT OF THE PAGE OF THE ROCK RIPRAP BY PLACING A CICION OF SHALL ON AND GRAVEL USER THE FABRIC DAMAGED AREAS IN THE FABRIC SHALL BE REPARED OF THE PAGE OF

EMERGENCY SPILLWAY DETAIL

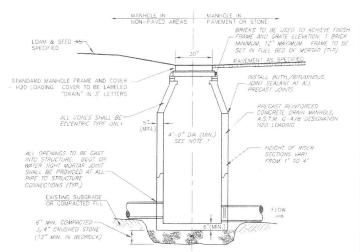


- 1. PLASTIC DRAWN PIPE (HDPE) SHALL BE ADS N-12 (CORRECATED EXTERIOR, SMOOTH INTERIOR) DR APPROVED EQUAL MEETING ASSETO H-252 AND HOO (CHOING).

  2. DI. PIPE SHALL BE CLASS 50.

  3. REWRORGED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.

# DRAINAGE TRENCH DETAIL



- 1. WHERE DEPTH EXCEEDS 12 IT., USE 5-0" DIAMETER (MIN.) MAXIMUM DEPTH = 18 FEET
  2. MINIMUM PIPE OROP (INLET TO OUTLET SHALL BE 3" UNKESS OTHERWISE APPROVED BY
  THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.
  3. ALL BOOTS, OSKYETS, AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH
  MANUFACTURERS WRITTEN INSTRUCTION.

# DRAINAGE MANHOLE DETAIL



TAX MAP 256A LOTS 66, 66-F TO H, M, & 65

# DETAIL SHEET 3

PREPARED FOR/LAND OF:

THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER, NH

JANUARY 8, 2019 SHEET 29 OF 33

> Bedford Design Consultants ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com





AS SPECIFIED

EROSION MATTING WITHIN

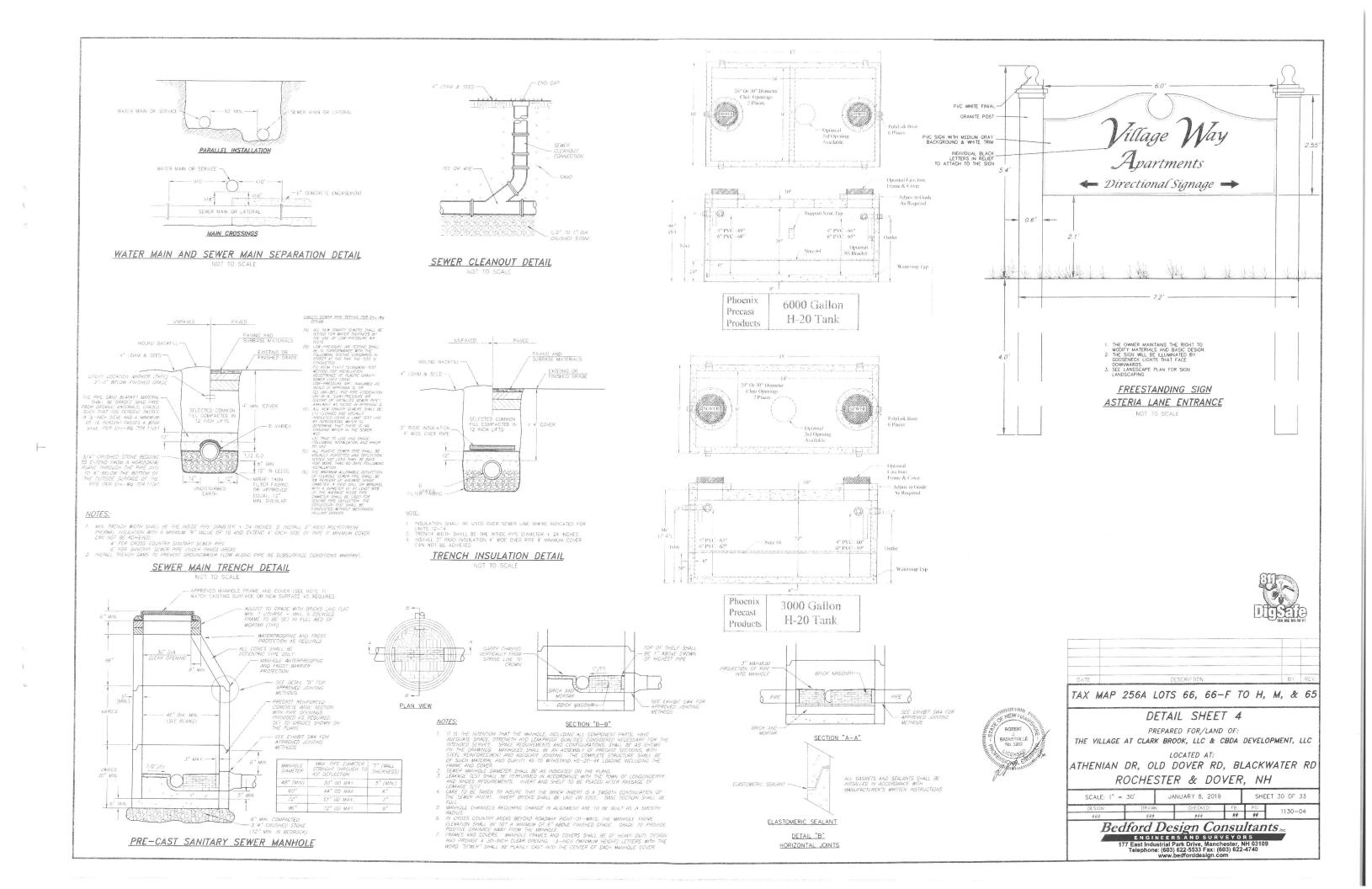
CAST IRON FRAME AND GRATE

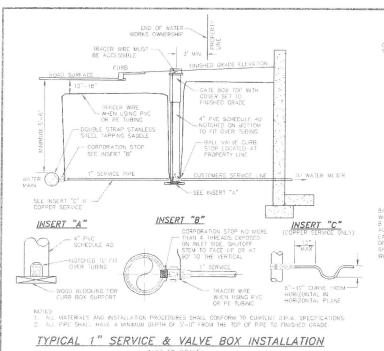


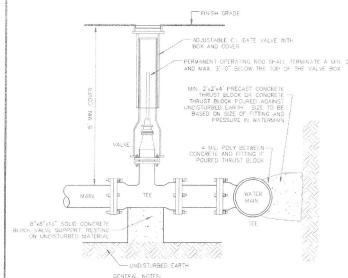
TYPE "B" CATCH BASIN DETAIL:

NOTES:
THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S SHOP DRAWINGS, INCLUDING
REINFORCING DETAILS AND CERTIFICATION OF LOADING CAPACITY TO ENGINEER FOR

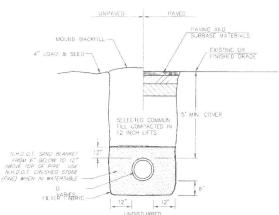
THE RIM ELEVATION OF ALL CATCH BASINS SHALL BE SET TO THE GRADE OF THE ADJACENT BINDER COURSE

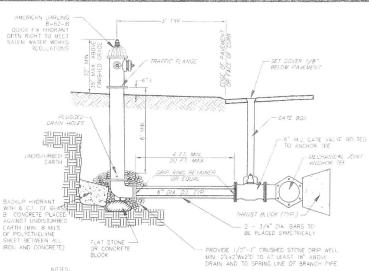






# STANDARD GATE VALVE





AVICES:
- HRUST BLOCKS TO BE POURED CONCRETE (3,000 PSI) OR FLAT SURFACED STONE
- THRUST BLOCKS TO BE SIZED TO SOL BEARING CAFACITY.
- B' DIA, DI. PIPE REQUIRED SHOULD HUDRANT BE MORE THAN 20 F1, FROM WATER MAIN.

# FIRE HYDRANT DETAIL:

DUCTILE IRON PIPE SERVICE CONNECTION MECHANICAL JOINT RESILIENT SEAT CATE VALVE WITH BOX TO SURFACE (OPEN LEFT) GRIP RING --GLAND -SEE NOTE 4

ALL PIPE SHADULU HAVE A MINIMUM DEFINED OF THRUST RESTRAINT.

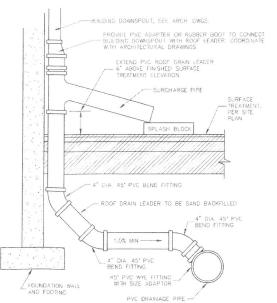
CRAPE.

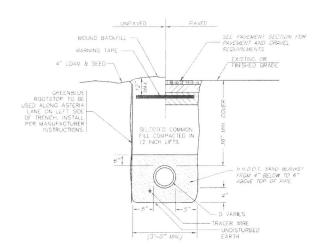
CRIP RINGS AND THRUST BLOCKS SHALL BE USED FOR THRUST RESTRAINT.

MIN. 2'2'2'4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH D.P.W. APPROVAL OF CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH — SIZE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN.

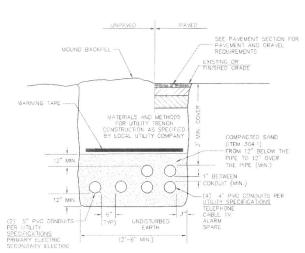
# WATER TEE INSTALLATION

GRADE
GRIP RINGS AND THRUST BLOCKS SHALL BE USED FOR THRUST RESTRAINT.
MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH D.P.W. APPROVAL OR
CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE BASED ON SIZE
OF FITTING AND PRESSURE IN WATERMAIN.

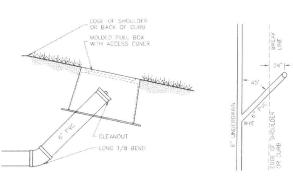




# GAS MAIN TRENCH DETAIL

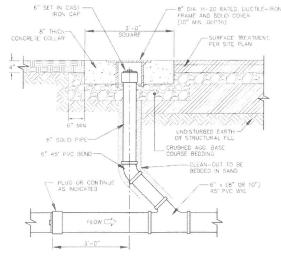


UTILITY TRENCH DETAIL



THE UNDERDRAIN FLUSHING BASIN SHALL INCLUDE ALL REQUIRED RISER PIPE, 45' WYL LONG BEND, CROSS PIPE, CLEANOUT, PULL BOX AND REQUIRED BACKFILL MATERIAL. A DELINEATION REFLECTOR SHALL BE USED AS A WITNESS MARKER.

FLUSHING BASINS SHALL BE PLACE AT THE BEGINNINGS (HICH POINT) OF THE UNDERDRAIN AND AT A 300 FOOT SPACING. UNDERDRAIN FLUSHING BASIN



ROOF DRAIN STANDARD CLEAN-OUT

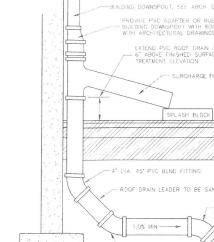
TAX MAP 256A LOTS 66, 66-F TO H, M, & 65 DETAIL SHEET 5

PREPARED FOR/LAND OF: THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER, NH

JANUARY 8, 2019 SHEET 31 OF 33 Bedford Design Consultants Inc.

ENGINEERS AND SURVEYORS 177 East Industrial Park Drive, Manchester, NH 03109 Telephone: (603) 622-5533 Fax: (603) 622-4740 www.bedforddesign.com



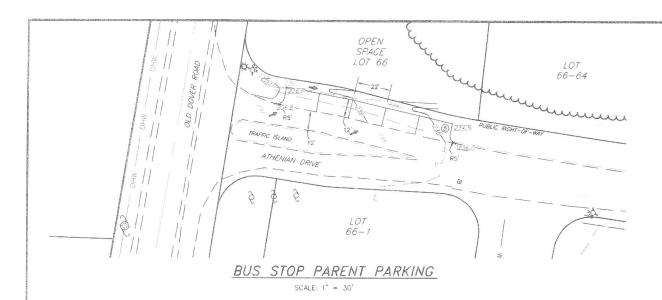
WATER TEE INSTALLATION ROOF DRAIN LEADER -3/4" CRUSHED STONE

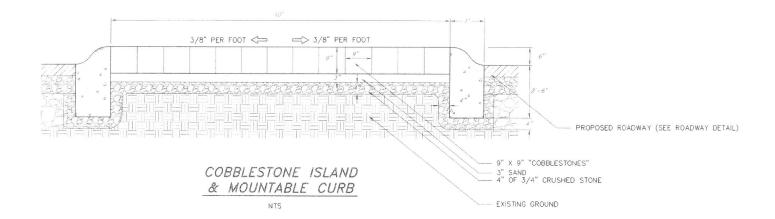
SECTION:

UNDERDRAIN DETAIL NOT TO SCALE











TAX MAP 256A LOTS 66, 66-F TO H, M, & 65

# DETAIL SHEET 7

PREPARED FOR/LAND OF:
THE VILLAGE AT CLARK BROOK, LLC & CBDA DEVELOPMENT, LLC

LOCATED AT:

ATHENIAN DR, OLD DOVER RD, BLACKWATER RD ROCHESTER & DOVER, NH

SCALE: 1" = 30'	JA	JANUARY 8, 2019		SHEET 33 OF 33	
DESIGN:	DRAWN:	CHECKED:	FB:	PG:	11.30-04
###	HHH	11/11/11	##	##	1130-04

Bedford Design Consultants,
ENGINEERS AND SURVEYORS

177 East Industrial Park Drive, Manchester, NH 03109
Telephone: (603) 622-5533 Fax: (603) 622-4740
www.bedforddesign.com

