LAND SURVEYORS — CIVIL ENGINEERS

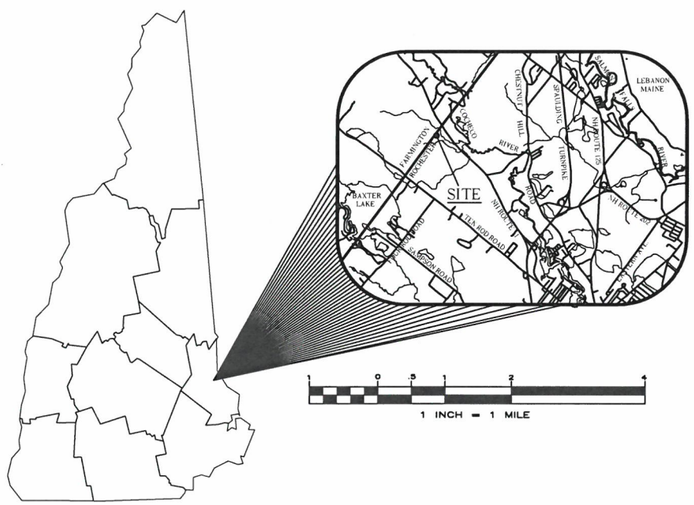
Drawing Name: W:\20120\20004\DWGS\20004 SP-1.dwg
Tue, 18 Aug 2020 - 5:42pm

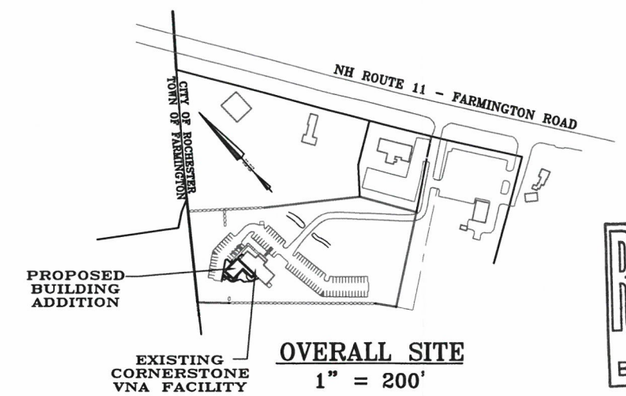
# PROPOSED FACILITY EXPANSION

## 178 FARMINGTON ROAD

PREPARED FOR

## CORNERSTONE VNA
## ROCHESTER, NH
## MARCH 2020




OVERALL SITE
1" = 200'

RECEIVED
OCT 01 2020
By

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD
CERTIFIED BY: _____ DATE: 10/1/20

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER
No. 10028
LICENSED
PROFESSIONAL ENGINEER

### CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC.
2 CONTINENTAL BOULEVARD
ROCHESTER, NEW HAMPSHIRE 03867
(603) 335-3948

### ARCHITECTS

SHEER McCRYSTAL PALSON ARCHITECTURE INC.
30 SOUTH MAIN STREET, BUILDING TWO
CONCORD, NEW HAMPSHIRE 03301
(603) 228-8880

### OWNER OF RECORD

TAX MAP 208, LOT 9
OWNER OF RECORD:
ROCHESTER/RURAL DISTRICT VISITING NURSE
SERVICES AND HOSPICE
178 FARMINGTON ROAD
ROCHESTER, NH 03867
SCRD BOOK 2250, PAGE 320

### APPLICANT

CORNERSTONE VNA
178 FARMINGTON ROAD
ROCHESTER, NH 03867
(603) 332-1133

### STATE AND FEDERAL PERMITS:

STATE OF NEW HAMPSHIRE PERMIT NUMBERS:

| | |
|---|---|
| NHDES ALTERATION OF TERRAIN: | NOT REQUIRED |
| NHDES WETLANDS PERMIT: | NOT REQUIRED |
| NHDES DAM PERMIT: | NOT REQUIRED |
| NHDES SUBDIVISION PERMIT: | NOT REQUIRED |
| NHDES SUBSURFACE SYSTEMS PERMIT: | NOT REQUIRED |
| NHDES WASTEWATER PERMIT: | NOT REQUIRED |
| NHDOT DRIVEWAY/ENTRANCE PERMIT: | NOT REQUIRED |

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES):

NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

NPDES PERMIT: NOT REQUIRED

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR.

### SHEET INDEX

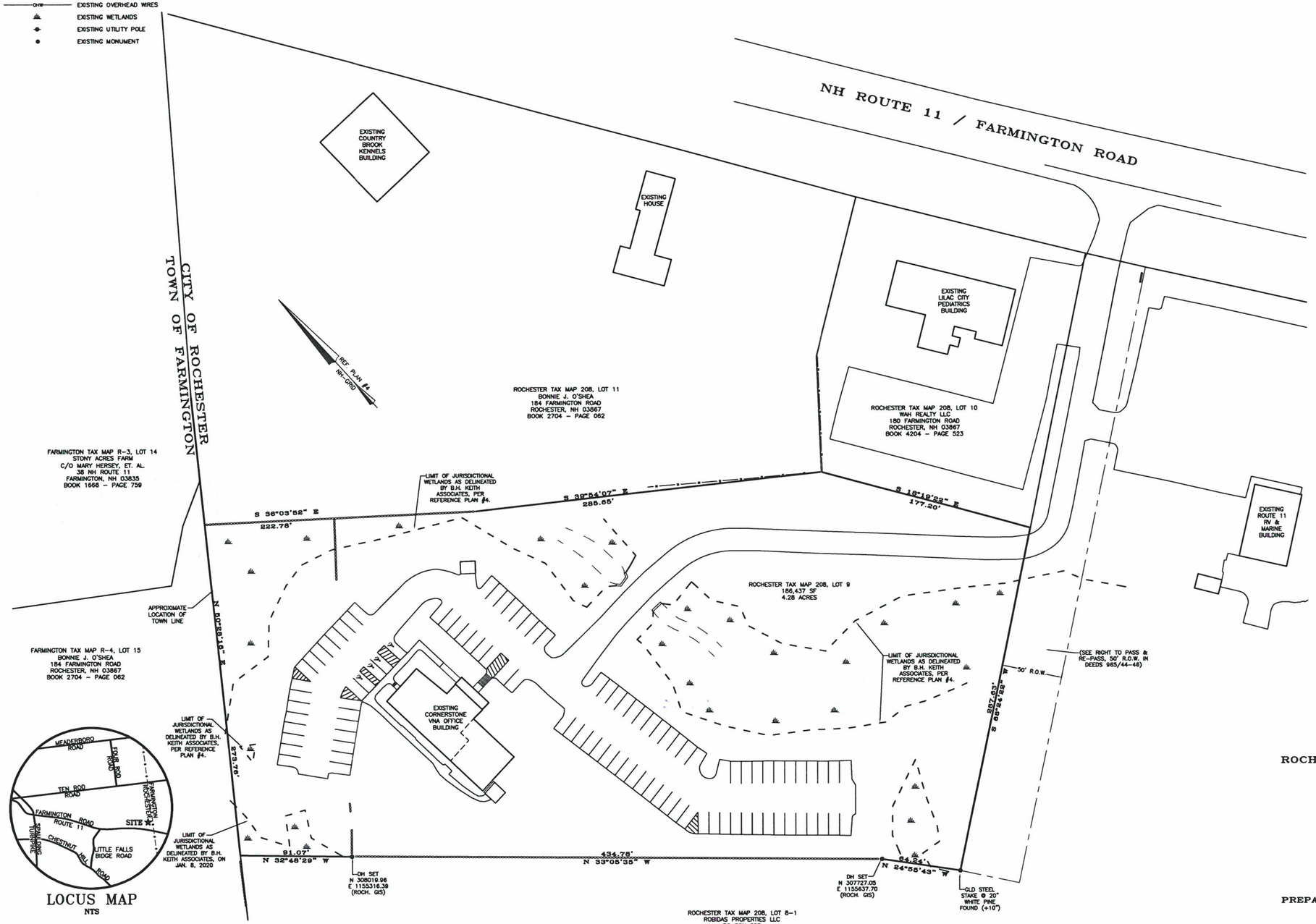

| | | | |
|---|---|---|---|
| SHEET | C-0 | COVER | |
| SHEET | C-1 | PLAN OF LAND | 1" = 40' |
| SHEET | C-2 | EXISTING FEATURES | 1" = 20' |
| SHEET | C-3 | DEMOLITION PLAN | 1" = 20' |
| SHEET | C-4 | OVERALL SITE PLAN | 1" = 40' |
| SHEET | C-5 | SITE LAYOUT PLAN | 1" = 20' |
| SHEET | C-6 | GRADING, DRAINAGE, EROSION AND SEDIMENTATION CONTROL PLAN | 1" = 20' |
| SHEET | C-7 | UTILITY PLAN | 1" = 20' |
| SHEET | C-8 | CONSTRUCTION DETAILS | AS SHOWN |
| SHEET | C-9 | EROSION AND SEDIMENTATION CONTROL DETAILS | AS SHOWN |


CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

*FILE NO. 116*
*PLAN NO. C-1993/SP-2*
*DWG. NO. 20004/SP-2*

LAND SURVEYORS — CIVIL ENGINEERS

LEGEND
- PROPERTY LINE
- LIMITS OF JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING STONEWALLS
- EXISTING OVERHEAD WIRES
- EXISTING WETLANDS
- EXISTING UTILITY POLE
- EXISTING MONUMENT







LOCUS MAP
NTS

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

STATE OF NEW HAMPSHIRE — No. 865 — JOEL D. RUNNALS — LICENSED LAND SURVEYOR

Joel D. Runnals — SIGNATURE — 03/10/20 DATE

JOEL D. RUNNALS, LLS 865
ON BEHALF OF NORWAY PLAINS ASSOCIATES, INC.

TAX MAP 208, LOT 9
OWNER OF RECORD:
ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE
178 FARMINGTON ROAD
ROCHESTER, NH 03867
SCRD BOOK 2250, PAGE 320

# PLAN OF LAND
# TAX MAP 208, LOT 9
# 178 FARMINGTON ROAD
# ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 INCH= 40 FT.

REFERENCE PLANS:
1) "AS-BUILT SURVEY PLAN, LILAC CITY PEDIATRICS, FARMINGTON ROAD – ROUTE 11, ROCHESTER, N.H. FOR WAH REALTY CORP." DATED JULY 1996, BY NORWAY PLAINS ASSOC. PLAN NO. C-1875A.
2) "PLAN OF LAND, HAZEL CORSON, HILDA CORSON, ROCHESTER AND FARMINGTON, N.H." DATED MAY 1982, BY FREDERICK E. DREW ASSOC. RECORDED: SCRD 178-182.
3) "PLAN OF LAND, COOK TO TURCOTTE, ROCHESTER,N.H." DATED MAY 1975, BY G.L. DAVIS & ASSOC. NOT RECORDED.
4) "AS-BUILT – ROUTE 11 – FARMINGTON ROAD – ROCHESTER N.H. – FOR ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE" DATED OCTOBER 2001 BY NORWAY PLAINS ASSOCIATES, INC.

*FILE NO. 116*
*PLAN NO. C-1993/SP-2*
*DWG. NO. 20004/SP-2*

C-1


31 Mooney Street, Alton, N.H. 603-875-3948
NORWAY PLAINS ASSOCIATES, INC.
2 Continental Blvd., Rochester, N.H. 603-335-3948

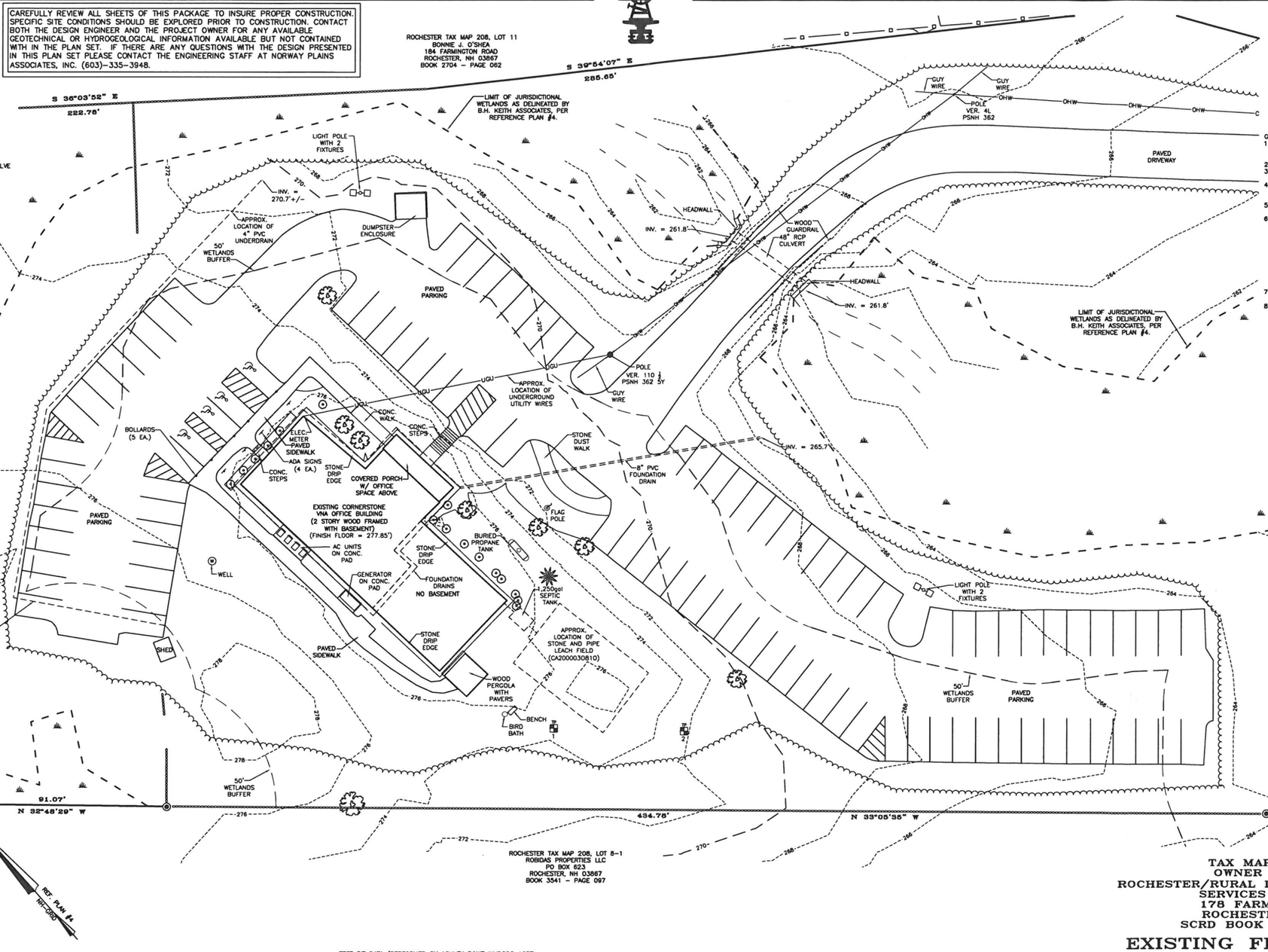
LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- LIMITS OF JURISDICTIONAL WETLANDS
- WETLANDS BUFFER
- EXISTING TREE LINE
- EXISTING STONEWALLS
- 258 EXISTING CONTOUR LINE
- EXISTING DRAIN LINE
- OHW EXISTING OVERHEAD WIRES
- W EXISTING WATER LINE
- EXISTING SEWER LINE
- G EXISTING GAS LINE
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING MONUMENT
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- TP 1 EXISTING TEST PIT LOCATION & NUMBER
- EXISTING WETLANDS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.




GENERAL SITE PLAN NOTES

1. THIS PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE AND CONSERVATION OVERLAY AND AQUAIFER PROTECTION OVERLAYS.
2. TOTAL PARCEL AREA: 186,437 SQUARE FEET OR 4.28 ACRES.
3. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING FEATURES ON THE LOT.
4. ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATION PRIOR TO ANY WORK BEING PERFORMED.
5. THESE PLANS SHOW ONLY THOSE FEATURES THAT WERE VISUALLY PER REFERANCE PLAN 4 AND A SITE SURVEY IN JANUARY 2020.
6. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
   GRANITE RIDGE DISTRICT (GRD) ZONE:
   MINIMUM LOT AREA = N/A
   MINIMUM LOT FRONTAGE = 50 FEET
   MINIMUM YARD SETBACKS:
   FRONT = N/A
   SIDE = N/A
   REAR = N/A
   MAXIMUM LOT COVERAGE = N/A
   MAXIMUM BUILDING HEIGHT = N/A
7. ORIENTATION: HORIZONTAL AND VERTICAL DATUMS – CITY OF ROCHESTER GIS BASED ON NGVD1929.
8. PARCEL IS NOT LOCATED WITHIN ZONE A (100YR FLOOD) AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, COMMUNITY #33017C0182D AND #33017C0184D, DATED MAY 17, 2005.

TEST PIT DATA (PERFORMED BY ASHLEY ROWE NHDSDS 1857 ON 02/12/2020)

TP 1
0–26" 10YR3/2 LOAM TOP SOIL, MANY ROOTS
26–50" 10YR6/6 LOAMY FINE SAND, GRANULAR, FRIABLE.
50–65" 10YR6/6 LOAMY FINS SANDS, GANULAR, FRIABLE, COMMON REDOXIMORPHIC CONCENTRATIONS AND DEPLETIONS.
65" NO REFUSAL, NO OBSERVED WATER
SEASONAL HIGH WATER TABLE ESTIMATED AT 50 INCHES.

TP 2
0–12" 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
12–26" 10YR6/6 LOAMY FINE SAND, GRANULAR, FRIABLE.
26–54" 5Y5/6 LOAMY FINE SAND, GRANULAR, FRIABLE COMMON REDOXIMORPHIC CONCENTRATIONS AND DEPLETIONS.
54" NO REFUSAL, NO OBSERVED WATER.
ESTIMATED SEASONAL HIGH WATER TABLE AT 26 INCHES.

REFERENCE PLANS:
1) "AS-BUILT SURVEY PLAN, LILAC CITY PEDIATRICS, FARMINGTON ROAD – ROUTE 11, ROCHESTER, N.H. FOR WAH REALTY CORP." DATED JULY 1996, BY NORWAY PLAINS ASSOC. PLAN NO. C-1675A.
2) "PLAN OF LAND, HAZEL CORSON, HILDA CORSON, ROCHESTER AND FARMINGTON, N.H." DATED MAY 1982, BY FREDERICK E. DREW ASSOC. RECORDED: SCRD 178-182.
3) "PLAN OF LAND, COOK TO TURCOTTE, ROCHESTER,N.H." DATED MAY 1975, BY G.L. DAVIS & ASSOC. NOT RECORDED.
4) "AS-BUILT – ROUTE 11 – FARMINGTON ROAD – ROCHESTER N.H. – FOR ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE" DATED OCTOBER 2001 BY NORWAY PLAINS ASSOCIATES, INC.

TAX MAP 208, LOT 9
OWNER OF RECORD:
ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE
178 FARMINGTON ROAD
ROCHESTER, NH 03867
SCRD BOOK 2250, PAGE 320

# EXISTING FEATURES PLAN
## TAX MAP 208, LOT 9
## 178 FARMINGTON ROAD
## ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 INCH = 20 FEET

FILE NO. 116
PLAN NO. C-1993/SP-2
DWG. NO. 20004/SP-2

C-2

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

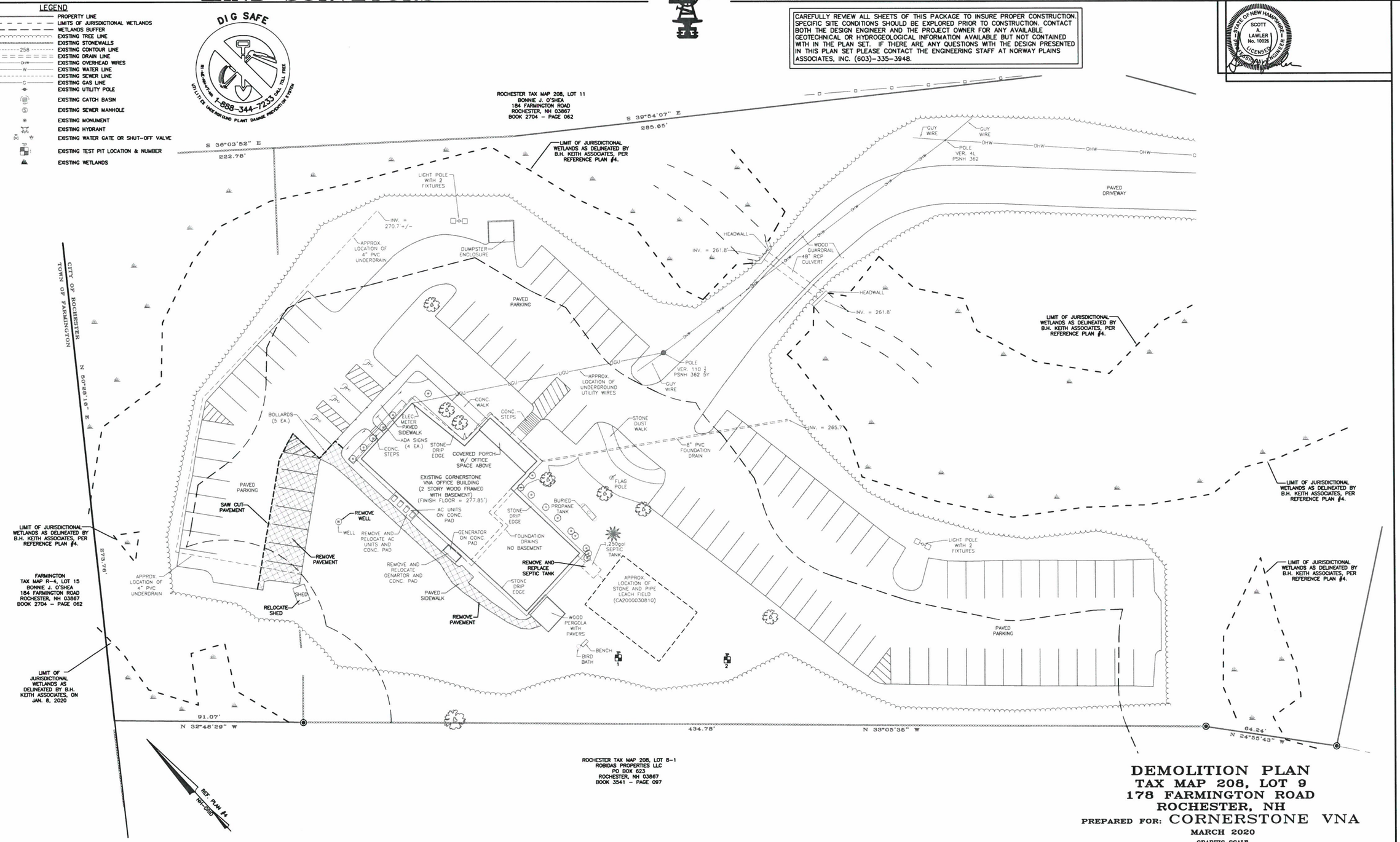
2 Continental Blvd., Rochester, N.H. 603-335-3948

LAND SURVEYORS

CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10026 — LICENSED PROFESSIONAL ENGINEER




# DEMOLITION PLAN
## TAX MAP 208, LOT 9
## 178 FARMINGTON ROAD
## ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 INCH = 20 FEET

C-3

*FILE NO. 116*
*PLAN NO. C-1993/SP-2*
*DWG. NO. 20004/SP-2*

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

# LAND SURVEYORS

# CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- LIMITS OF JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING STONEWALLS
- EXISTING OVERHEAD WIRES
- EXISTING WETLANDS
- EXISTING UTILITY POLE
- EXISTING MONUMENT

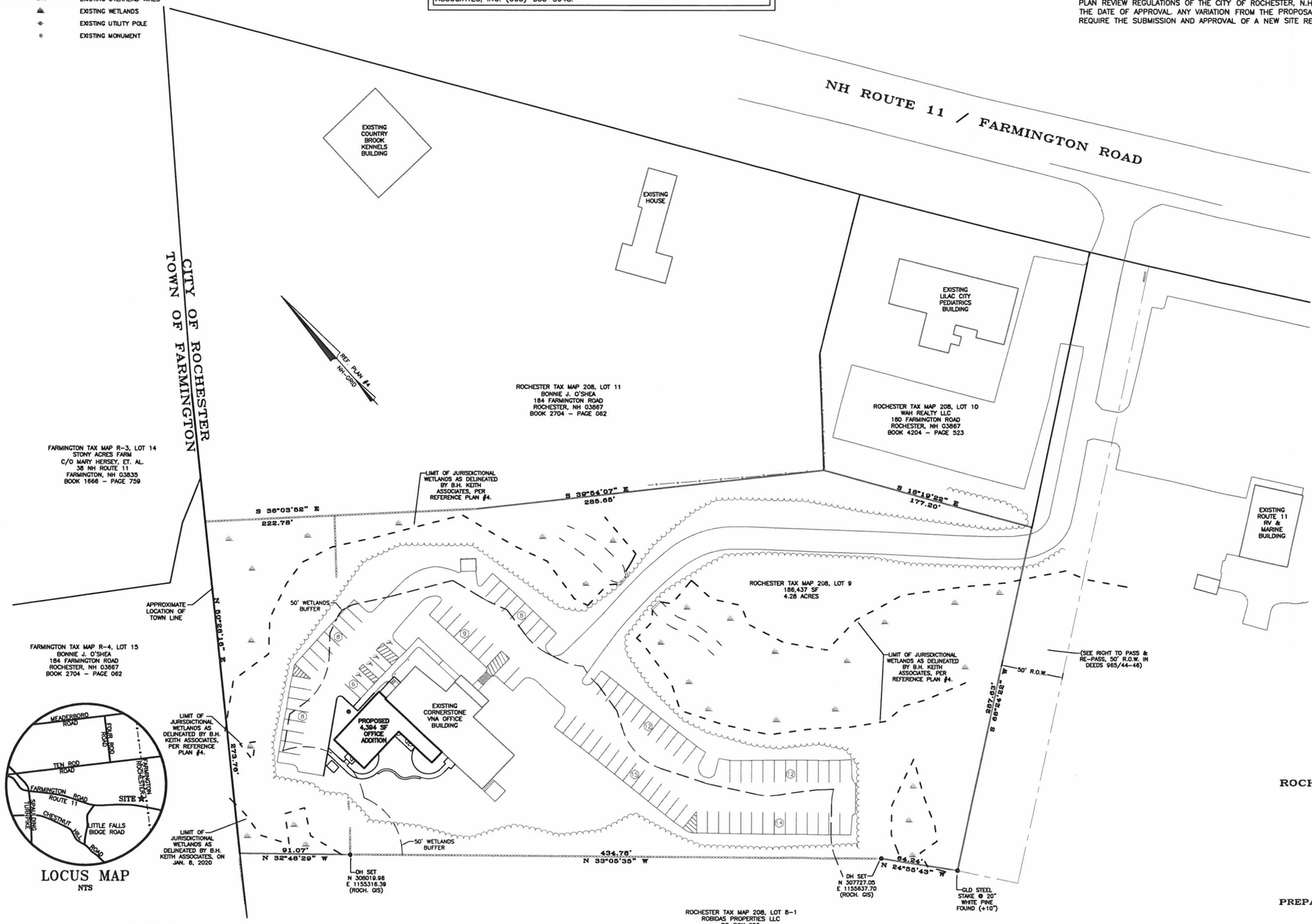
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

## SITE REVIEW APPROVAL

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE REVIEW PLAN, THE SITE REVIEW APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/DEVELOPER TO ALL WRITTEN AND VERBAL REPRESENTATIONS MADE REGARDING SUCH MATTERS AS USE, NUMBER OF EMPLOYEES, DRAINAGE, CONSTRUCTION, ETC. AS WELL AS ALL OTHER TERMS, CONDITIONS, PROVISIONS, REQUIREMENTS AND SPECIFICATIONS OF THE SITE PLAN REVIEW REGULATIONS OF THE CITY OF ROCHESTER, N.H., AS AMENDED, IN EFFECT ON THE DATE OF APPROVAL. ANY VARIATION FROM THE PROPOSAL AS APPROVED MAY ALSO REQUIRE THE SUBMISSION AND APPROVAL OF A NEW SITE REVIEW APPLICATION.

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER
No. 10026
LICENSED PROFESSIONAL ENGINEER

REVISIONS:
3/30/2020 – ADD NOTE 23







LOCUS MAP
NTS

GENERAL SITE PLAN NOTES

1. THIS PARCELS ARE LOCATED IN THE THIS PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE AND CONSERVATION OVERLAY AND AQUAIFER PROTECTION OVERLAYS.
2. TOTAL PARCEL AREA: 186,437 SQUARE FEET OR 4.28 ACRES.
3. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED EXPANSION OF THE EXISTING CORNERSTONE VNA BUILDING.
4. ALL EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATION PRIOR TO ANY WORK BEING PERFORMED.
5. THESE PLANS SHOW ONLY THOSE FEATURES THAT WERE VISUALLY PER REFERANCE PLAN 4 AND A SITE SURVEY IN JANUARY 2020.
6. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
   GRANITE RIDGE DISTRICT (GRD) ZONE:
   MINIMUM LOT AREA = N/A
   MINIMUM LOT FRONTAGE = 50 FEET
   MINIMUM YARD SETBACKS:
   FRONT = N/A
   SIDE = N/A
   REAR = N/A
   MAXIMUM LOT COVERAGE = N/A
   MAXIMUM BUILDING HEIGHT = N/A
7. ORIENTATION: HORIZONTAL AND VERTICAL DATUMS – CITY OF ROCHESTER GIS BASED ON NGVD1929.
8. PARCEL IS NOT LOCATED WITHIN ZONE A (100YR FLOOD) AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, COMMUNITY #330170D182D AND #330170D184D, DATED MAY 17, 2005.
9. SOIL TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE (NRCS) REPORT:
   CwC – CHARLTON FINE SANDY LOAM, 8 TO 15 PRECENT SLOPES, VERY STONEY
   HoB – HINCKLEY LOAMY SAND, 3 TO 8 PERCENT SLOPES
10. JURISDICTIONAL WETLANDS WERE DELINEATED BY B.H. KEITH ASSOCIATES.
11. FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 31 WAKEFIELD ST., ROCHESTER, NH 03867. (603) 335-1338.
12. PARKING REQUIREMENTS (SITE PLAN REGULATIONS; SECTION 10 (A):
    OFFICE USE:
    3 SPACES PER 1,000 GROSS FLOOR AREA
    EXISTING: 9,100 SF X 3 SPACES/1,000 SF = 27 SPACES
    PROPOSED: 4,394 SF X 3 SPACES/1,000 SF = 13 SPACES
    TOTAL REQUIRED SPACES = 40 SPACES
    TOTAL PROVIDED SPACES = 92 SPACES
    ACCESSIBLE PARKING (SITE PLAN REGULATIONS SECTION 10(D)(2)):
    THE SPACES ARE PART OF THE TOTAL ABOVE.
    ACCESSIBLE PARKING SPACES = 76 TO 100 = 4 SPACES
    TOTAL PROVIDED SPACES = 4 SPACES
13. THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW – INCLUDING ALL PERTINENT PROVISIONS OF THE CITY OF ROCHESTER SITE PLAN REGULATIONS – UNLESS OTHERWISE WAIVED.
14. THE APPLICANT SHALL OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT (UNLESS DETERMINED TO BE UNNECESSARY BY THE CITY ENGINEER) AND FOLLOW THE REQUIREMENTS OF THE CITY ORDINANCE CHAPTER 50. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE SOIL HAS BEEN DISTURBED.
15. ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
16. SNOW SHALL NOT BE PILED IN SUCH A MANNER AS TO BLOCK THE VISIBILITY OF THE VEHICLES ON NH ROUTE 11 AND ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE.
17. ALL OUTSIDE CONSTRUCTION ACTIVITY RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 6:00 P.M. SATURDAY.
18. ALL UTILITIES MUST BE UNDERGROUND, INCLUDING UTILITIES EXTENDED ONTO THE SITE FROM EXISTING POLES NEAR THE SITE. HOWEVER, IF THE ONLY POLE NEARBY IS ACROSS THE STREET, ONE ADDITIONAL POLE MAY BE PLACED ON/NEAR THE PROPERTY TO ALLOW FOR OVERHEAD EXTENSION OF WIRES ACROSS THE STREET. UTILITIES EXTENDING FROM ANY SUCH NEW POLE MUST BE UNDERGROUND. THE APPLICANT MAY WORK WITH THE CITY STAFF AS APPROPRIATE TO ADDRESS THIS REQUIREMENT.
19. THE CODE ENFORCEMENT OFFICER ADMINISTERS THE CITY OF ROCHESTER SIGN ORDINANCE. SIGNAGE SUBMITTED AS PART OF THIS SITE PLAN PACKAGE IS STILL SUBJECT TO HIS REVIEW TO ENSURE COMPLIANCE WITH THAT ORDINANCE AND OTHER APPLICABLE CODES, INDEPENDENT FROM THIS SITE PLAN REVIEW. IN ADDITION, IF ANY SIGNIFICANT CHANGE OR EXPANSION IS PROPOSED TO THE DESIGN OF THE APPROVED FREESTANDING SIGN OR TO THE OVERALL ADVERTISING SIGNAGE FOR THE SITE (NOT INCLUDING ACCESSORY SIGNAGE, SUCH AS HANDICAP PARKING SIGNS), THE PROPOSED SIGN DESIGNS MUST BE PRESENTED TO THE PLANNING BOARD FOR REVIEW PRIOR TO ISSUANCE OF THOSE SIGN PERMITS. A SIGN PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION OF ANY SIGNS ON SITE.
20. ALL ELEMENTS SHOWN ON THE APPROVED SITE PLAN MUST BE PROPERLY COMPLETED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, UNLESS APPROPRIATE SURETY IS PLACED WITH THE PLANNING DEPARTMENT.
21. NOTE THAT THIS APPROVAL IS FOR THE SITE PLAN ONLY. LIFE SAFETY CODE AND BUILDING CODE REVIEW WILL BE REQUIRED AS PART OF THE BUILDING PERMIT PROCESS WHEN THE CONSTRUCTION PLANS ARE SUBMITTED. VARIOUS REQUIREMENTS REGARDING THE BUILDING DESIGN POSSIBLY INCLUDING A SPRINKLER SYSTEM – MAY BE SPECIFIED AT THAT TIME.
22. THIS PROJECT PROPOSED TO DISTURB OVER ONE ACRE OF EXISTING GROUND COVER AND MEETS OTHER SPECIFIC REQUIREMENTS RELATED TO PERMIT CRITERIA FOR EPA NPDES COMPLIANCE. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), SUBMISSION OF A NOTICE OF INTENT (NOI) TO EPA, INSPECTIONS AND MAINTENANCE OF SEDIMENT CONTROL MEASURES, DOCUMENTATION OF MAINTENANCE ACTIVITIES, AND SUBMISSION OF A NOTICE OF TERMINATION (NOT) TO EPA. THE CONTRACTOR IS ALSO RESPONSIBLE TO COMPLY WITH ANY OR ALL OTHER ASPECTS OF THE CURRENT FEDERAL, STATE AND LOCAL STORM WATER OR NPDES REGULATIONS OR REQUIREMENTS.
23. DURING CONSTRUCTION, NO SOIL STOCKPILES SHALL BE LOCATED IN THE WETLAND BUFFER AREAS.
24. THE PROPOSED BUILDING ADDITION IS SUBJECT TO CITY OF ROCHESTER IMPACT FEES.

TAX MAP 208, LOT 9
OWNER OF RECORD:
ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE
178 FARMINGTON ROAD
ROCHESTER, NH 03867
SCRD BOOK 2250, PAGE 320

# OVERALL SITE PLAN
# TAX MAP 208, LOT 9
# 178 FARMINGTON ROAD
# ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 INCH= 40 FT.

REFERENCE PLANS:

1) "AS-BUILT SURVEY PLAN, LILAC CITY PEDIATRICS, FARMINGTON ROAD – ROUTE 11, ROCHESTER, N.H. FOR WAH REALTY CORP." DATED JULY 1996, BY NORWAY PLAINS ASSOC. PLAN NO. C-1675A.
2) "PLAN OF LAND, HAZEL CORSON, HILDA CORSON, ROCHESTER AND FARMINGTON, N.H." DATED MAY 1982, BY FREDERICK E. DREW ASSOC. RECORDED: SCRD 179-182.
3) "PLAN OF LAND, COOK TO TURCOTTE, ROCHESTER,N.H." DATED MAY 1975, BY G.L. DAVIS & ASSOC. NOT RECORDED.
4) "AS-BUILT – ROUTE 11 – FARMINGTON ROAD – ROCHESTER N.H. – FOR ROCHESTER/RURAL DISTRICT VISITING NURSE SERVICES AND HOSPICE" DATED OCTOBER 2001 BY NORWAY PLAINS ASSOCIATES, INC.

FILE NO. 116
PLAN NO. C-1993/SP-2
DWG. NO. 20004/SP-2

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: 10/1/20

C-4

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LAND SURVEYORS

CIVIL ENGINEERS

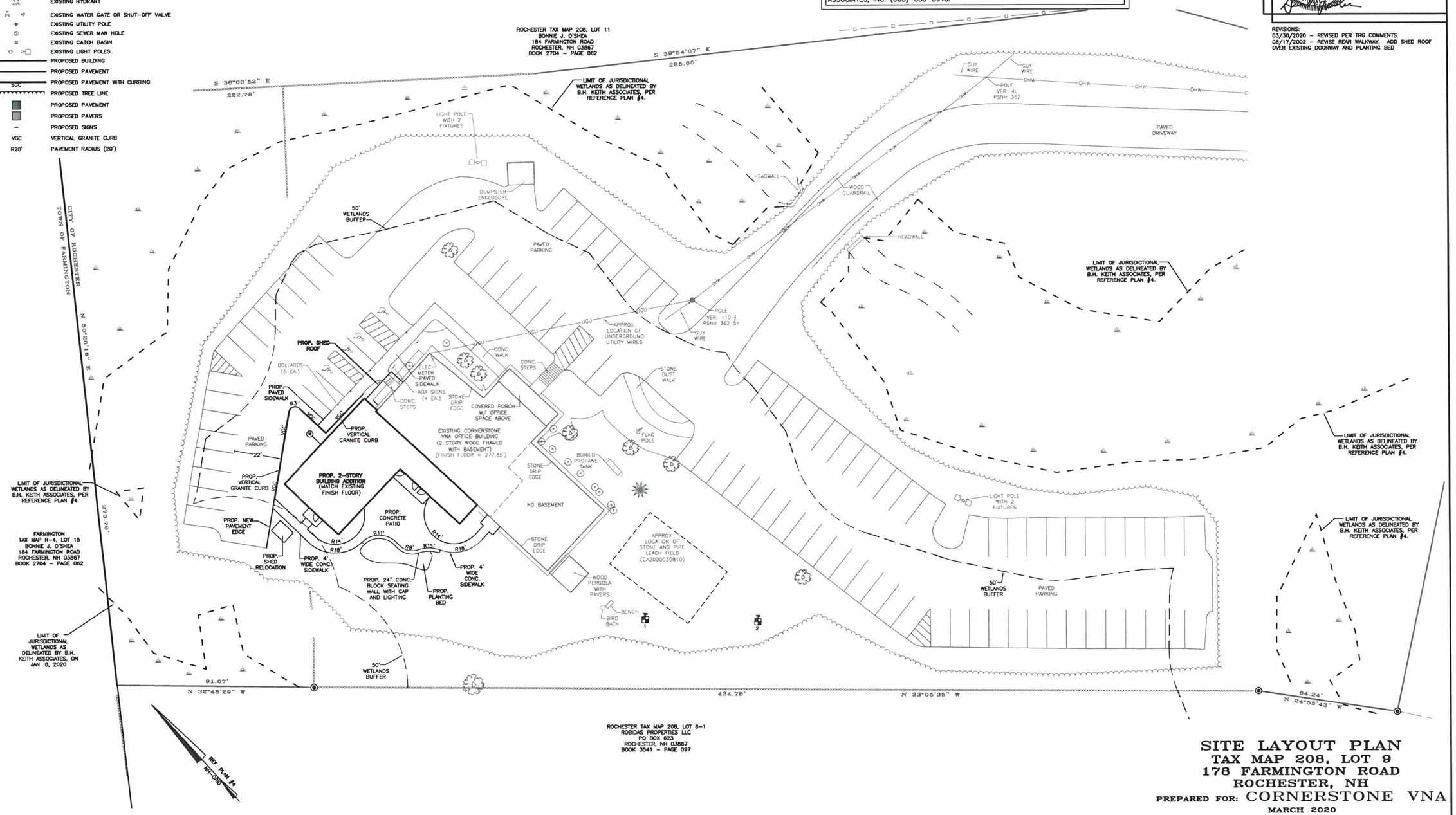
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE OF NEW HAMPSHIRE
SCOTT A. LAWLER
No. 10026
LICENSED
PROFESSIONAL ENGINEER

REVISIONS:
03/30/2020 – REVISED PER TRC COMMENTS
08/17/2002 – REVISE REAR WALKWAY. ADD SHED ROOF OVER EXISTING DOORWAY AND PLANTING BED

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- OHW – EXISTING OVERHEAD WIRES
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING UTILITY POLE
- EXISTING SEWER MAN HOLE
- EXISTING CATCH BASIN
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT
- SGC – PROPOSED PAVEMENT WITH CURBING
- PROPOSED TREE LINE
- PROPOSED PAVEMENT
- PROPOSED PAVERS
- PROPOSED SIGNS
- VGC – VERTICAL GRANITE CURB
- R20' – PAVEMENT RADIUS (20')




# SITE LAYOUT PLAN
## TAX MAP 208, LOT 9
## 178 FARMINGTON ROAD
## ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

*FILE NO. 116*
*PLAN NO. C-1993/SP-2*
*DWG. NO. 20004/SP-2*

C-5

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LAND SURVEYORS

CIVIL ENGINEERS

LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING DRAIN LINE
- 232 EXISTING CONTOUR LINE
- TP #8 EXISTING TEST PIT
- E234.1' EXISTING SPOT GRADE
- P234.25' PROPOSED SPOT GRADE
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- 232 PROPOSED CONTOUR LINE
- S/S PROPOSED SILTATION FENCE

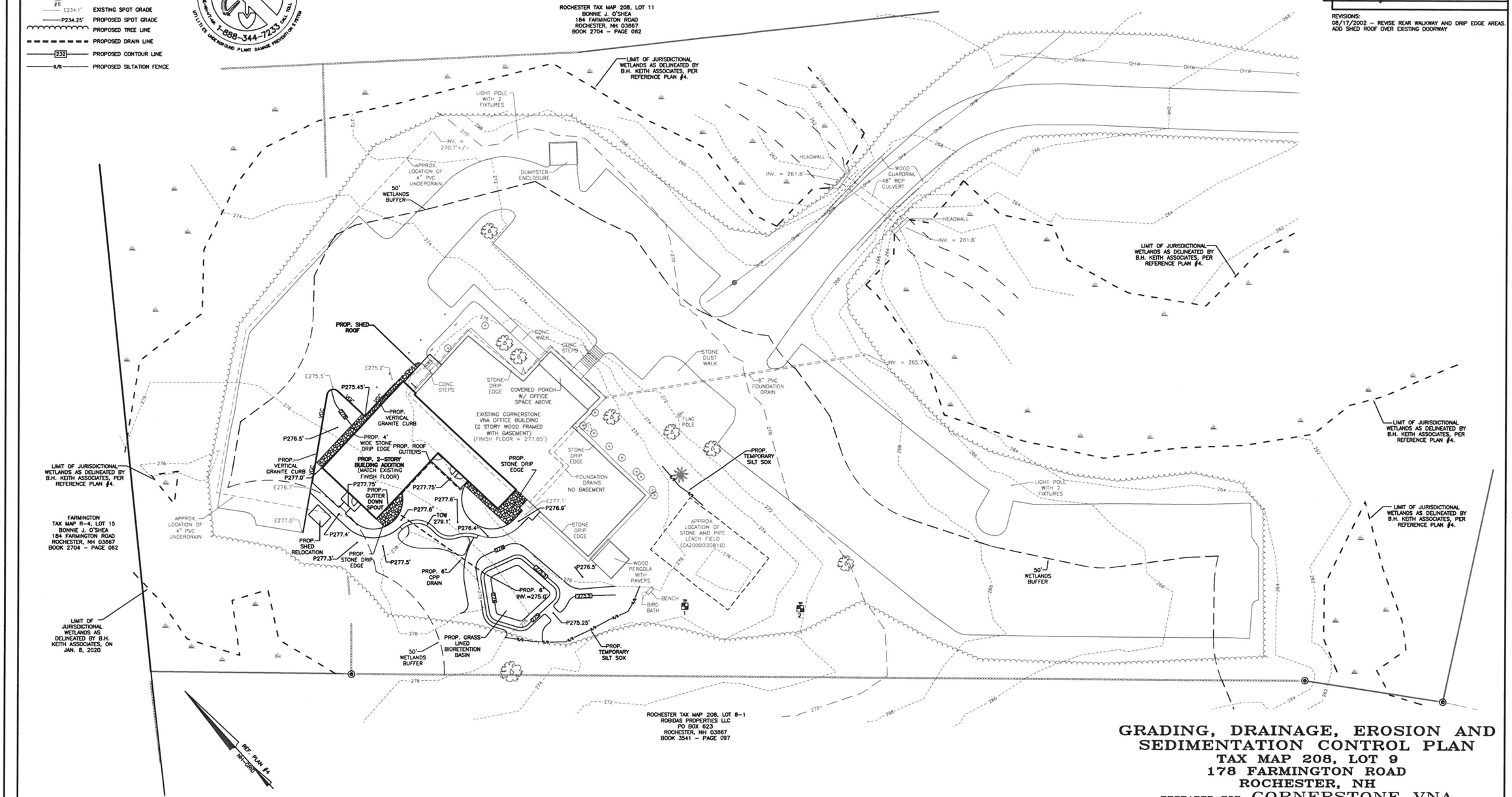
DIG SAFE

811 IT'S THE LAW! CALL 1-888-344-7233 (CALL TOLL FREE) UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE OF NEW HAMPSHIRE SCOTT A. LAWLER No. 10026 LICENSED PROFESSIONAL ENGINEER

REVISIONS:
08/17/2002 - REVISE REAR WALKWAY AND DRIP EDGE AREAS. ADD SHED ROOF OVER EXISTING DOORWAY




# GRADING, DRAINAGE, EROSION AND SEDIMENTATION CONTROL PLAN

TAX MAP 208, LOT 9
178 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 INCH = 20 FEET

FILE NO. 116
PLAN NO. C-1993/SP-2
DWG. NO. 20004/SP-2

C-6

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

LAND SURVEYORS

CIVIL ENGINEERS

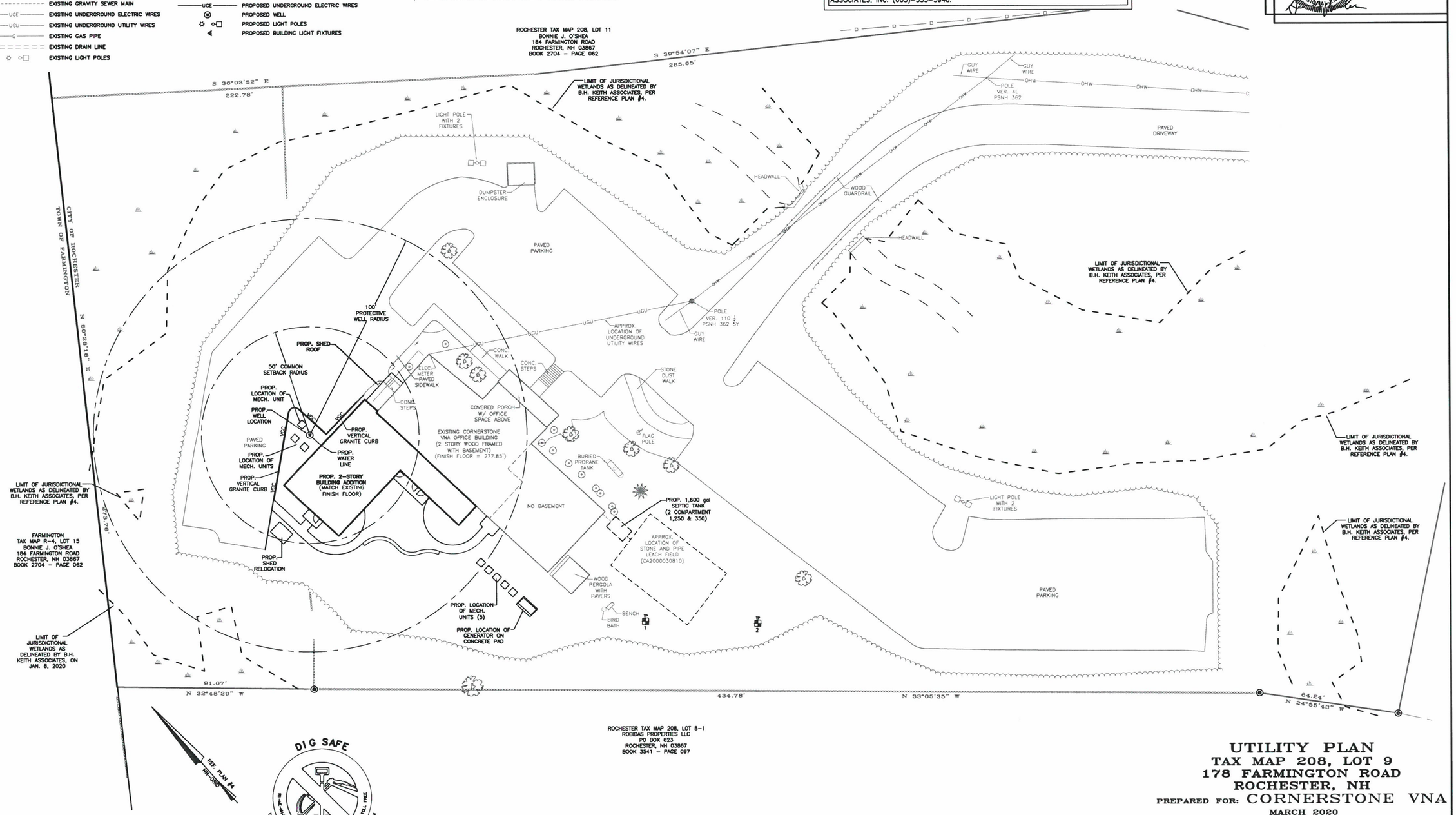
## LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- OHW — EXISTING OVERHEAD WIRES
- W — EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- UGE — EXISTING UNDERGROUND ELECTRIC WIRES
- UGU — EXISTING UNDERGROUND UTILITY WIRES
- G — EXISTING GAS PIPE
- EXISTING DRAIN LINE
- EXISTING LIGHT POLES
- PROPOSED DRAIN LINE
- PW — PROPOSED WATER SERVICE
- PS — PROPOSED SEWER LINE
- PG — PROPOSED PROPANE GAS LINE
- UGU — PROPOSED UNDERGROUND UTILITY WIRES
- UGE — PROPOSED UNDERGROUND ELECTRIC WIRES
- PROPOSED WELL
- PROPOSED LIGHT POLES
- PROPOSED BUILDING LIGHT FIXTURES

NOTES:
1) CONSTRUCTION WILL CONFORM TO THE FOLLOWING UTILITIES STANDARDS AND SPECIFICATION:
   A) SANITARY SEWER DISPOSAL – NHDES
   B) ELECTRIC DISTRIBUTION – EVERSOURCE
   C) TELEPHONE – FAIRPOINT
   D) CABLE – METROCAST
   E) WATER – CITY OF ROCHESTER, STANDARDS
2) ALL PROPOSED ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10026 — LICENSED PROFESSIONAL ENGINEER




DIG SAFE — 1-888-344-7233 — CALL TOLL FREE — UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

# UTILITY PLAN
## TAX MAP 208, LOT 9
## 178 FARMINGTON ROAD
## ROCHESTER, NH

PREPARED FOR: CORNERSTONE VNA

MARCH 2020

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FEET

C-7

FILE NO. 116
PLAN NO. C-1993/SP-2
DWG. NO. 20004/SP-2


31 Mooney Street, Alton, N.H. 603-875-3948

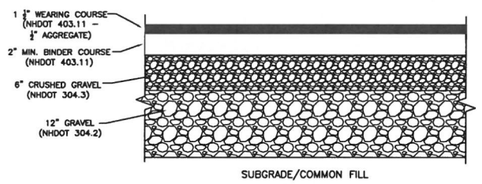
NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 603-335-3948

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

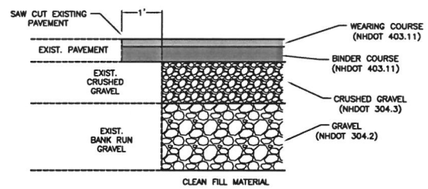
STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10025 — LICENSED PROFESSIONAL ENGINEER

REVISIONS:
3/30/2020 - REVISE GRANITE CURB DETAIL
4/14/2020 - ADD BIORETENTION CROSS-SECTION




## PARKING LOT CROSS-SECTIONS

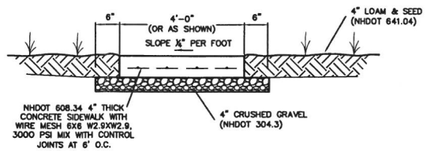
NOT TO SCALE



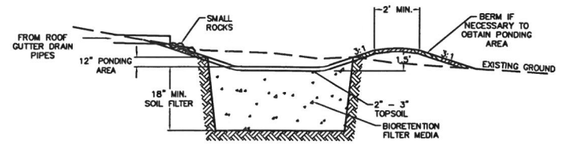

## TYPICAL PAVEMENT MATCHING DETAIL

NOT TO SCALE

PAVEMENT NOTES:
1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.




## CONCRETE SIDEWALK DETAIL



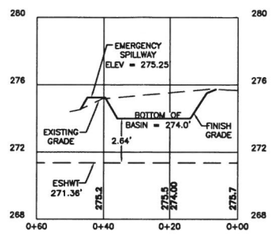

CROSS SECTION

## BIORETENTION BASIN DETAIL

NOT TO SCALE

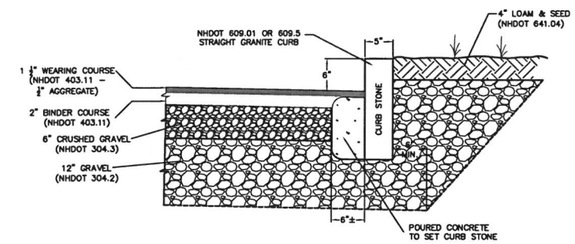
GRASSED BIORETENTION BASIN CONSTRUCTION AND MAINTENANCE NOTES:
1. SYSTEMS SHALL BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENTS EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION AS WARRANTED BY SUCH INSPECTION.
2. TRASH AND DEBRIS SHALL BE REMOVED AT EACH INSPECTION.
3. AT LEAST ANNUALLY, SYSTEM SHALL BE INSPECTED FOR DRAWDOWN TIME. IF THE RAIN GARDEN DOES NOT DRAIN WITHIN 72 HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHALL ASSESS THE CONDITIONS OF THE GARDEN TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.

| BIORETENTION FILTER MEDIA | | | |
|---|---|---|---|
| COMPONENT MATERIAL | PERCENT OF MIXTURE BY VOLUME | GRADATION OF MATERIAL | |
| | | SIEVE NO. | PERCENT BY WEIGHT PASSING STANDARD SIEVE |
| FILTER MEDIA OPTION A | | | |
| ASTM C-33 CONCRETE SAND | 50 TO 55 | | |
| LOAMY SAND TOPSOIL, WITH FINES AS INDICATED | 20 TO 30 | 200 | 15 TO 25 |
| MODERATELY FINE SHREDDY BARK OR WOOD FIBERS MULCH, WITH FINES AS INDICATED | 20 TO 30 | 200 | < 5 |
| FILTER MEDIA OPTION B | | | |
| MODERATELY FINE SHREDDY BARK OR WOOD FIBERS MULCH, WITH FINES AS INDICATED | 20 TO 30 | 200 | < 5 |
| LOAMY COURSE SAND | 70 TO 80 | 10 | 85 TO 100 |
| | | 20 | 70 TO 100 |
| | | 60 | 15 TO 40 |
| | | 200 | 8 TO 15 |



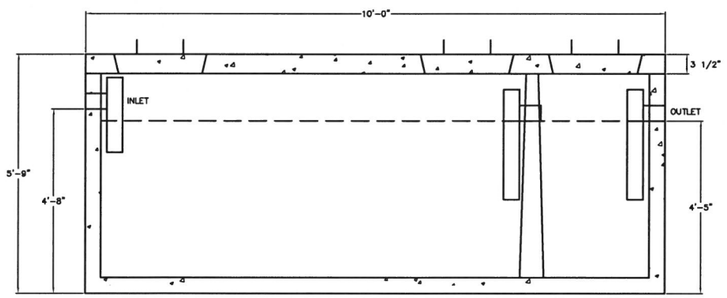

## BOIRETENTION BASIN CROSS SECTION

1" =20' (HORZ.) & 1" = 4' (VERT.)

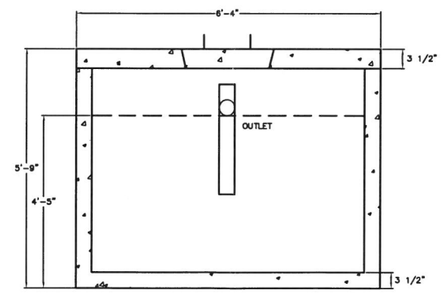



## GRANITE CURB DETAIL

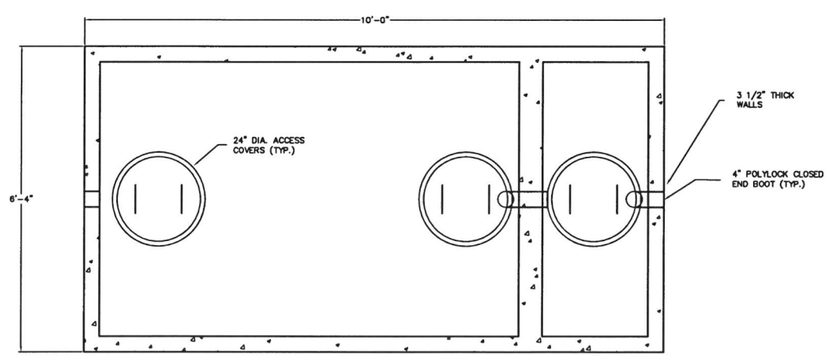
NOT TO SCALE




SECTION VIEW




END VIEW

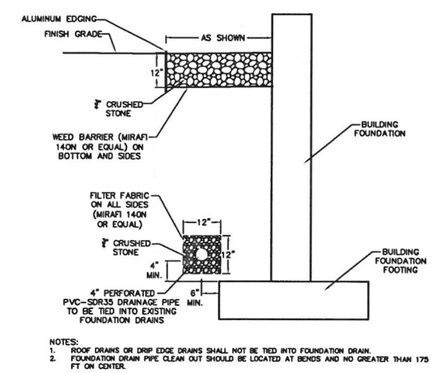



TOP VIEW

NOTES:
1. CONCRETE: 5,000 PSI MIN. AFTER 28 DAYS
2. ALL REINFOREMENT PER ASTM C1227-93
3. TEES AND GAS BAFFLE SOLD SEPARATELY
4. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN
5. 4" POLYLOK IV CLOSED END BOOTS USED FOR CONNECTIONS.
6. PLASTIC RISERS CAN BE POURED INTO COVER

## 2-COMPARTMENT SEPTIC TANK

NOT TO SCALE




NOTES:
1. ROOF DRAINS OR DRIP EDGE DRAINS SHALL NOT BE TIED INTO FOUNDATION DRAIN.
2. FOUNDATION DRAIN PIPE CLEAN OUT SHOULD BE LOCATED AT BENDS AND NO GREATER THAN 175 FT ON CENTER.

## DRIP EDGE AND FOUNDATION DRAIN DETAIL

NOT TO SCALE

CONSTRUCTION DETAILS
TAX MAP 208, LOT 9
178 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR: CORNERSTONE VNA
MARCH 2020

C-8

FILE NO. 116
PLAN NO. C-1993/SP-2
DWG. NO. 20004/SP-2

LAND SURVEYORS — CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.

STATE OF NEW HAMPSHIRE — SCOTT A. LAWLER No. 10026 — LICENSED PROFESSIONAL ENGINEER

## TEMPORARY VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:
1. STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
3. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
4. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

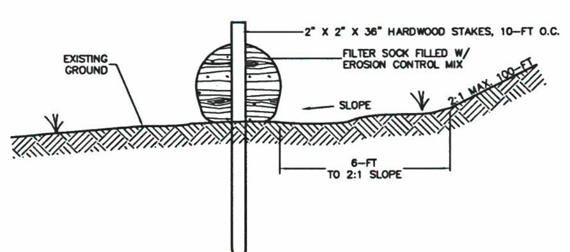
SEEDING:
1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
2. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
3. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3.
4. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

MAINTENANCE REQUIREMENTS:
1. TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
2. BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED.
3. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

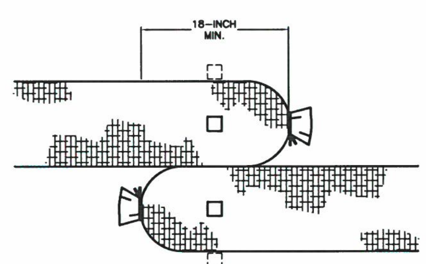
## TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

| SPECIES | PER ACRE BUSHELS (BU) OR POUNDS (LBS.) | PER 1,000-SF | REMARKS |
|---|---|---|---|
| WINTER RYE | 2.5 BU OR 112 LBS. | 2.5 LBS. | BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH. |
| OATS | 2.5 BU OR 80 LBS. | 2.0 LBS. | BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH. |
| ANNUAL RYE GRASS | 40 LBS. | 1.0 LB. | GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL. |
| PERENNIAL RYE GRASS | 30 LBS. | 0.7 LBS. | BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH. |

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE 4-1
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)




FILTER SOCK CROSS-SECTION




FILTER SOCK CONNECTION PLAN VIEW

CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):
1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTAINMENT AND STABILITY TO A BERM OF EROSION CONTROL MIX.
2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

MAINTENANCE REQUIREMENTS:
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS.

CONSTRUCTION SPECIFICATIONS:
1. COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.
2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
3. IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
4. FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

## CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

*FILE NO. 116*
*PLAN NO. C-1993/SP-2*
*DWG. NO. 20004/SP-2*

## PERMANENT VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:
1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
2. REMOVE FROM THE SURFACE ALL STONES 2INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLODS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.
6. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)*
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:
1. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.
3. WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN VETCH IS SEEDED IN LATE SUMMER AT LEAST 35% OF THE SEED SHALL BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3. AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
5. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3.
6. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

HYDROSEEDING:
1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.
2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.
3. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:
1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
2. SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
3. BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
4. AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

## PERMANENT VEGETATION SEEDING RECOMMENDATIONS

| USE | MIXTURE | SPECIES | LBS./ACRE | LBS./1,000-SF |
|---|---|---|---|---|
| STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS | A | TALL FESCUE<br>CREEPING RED FESCUE<br>REDTOP<br>TOTAL | 20<br>20<br>2<br>42 | 0.45<br>0.45<br>0.05<br>0.95 |
| WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER | A | TALL FESCUE<br>CREEPING RED FESCUE<br>REDTOP<br>TOTAL | 20<br>20<br>2<br>42 | 0.45<br>0.45<br>0.05<br>0.95 |
| LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES | A | TALL FESCUE<br>CREEPING RED FESCUE<br>REDTOP<br>TOTAL | 20<br>20<br>2<br>42 | 0.45<br>0.45<br>0.05<br>0.95 |
| PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF) | F | CREEPING RED FESCUE<br>KENTUCKY BLUEGRASS<br>TOTAL | 50<br>50<br>100 | 1.15<br>1.15<br>2.30 |

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

## GENERAL CONSTRUCTION PHASING:

1. STABILIZATION:
A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:
A) IN AREAS THAT WILL NOT BE PAVED:
a) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
b) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
c) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
B)
a) BASE COURSE GRAVELS HAVE BEEN INSTALLED.
2. TEMPORARY STABILIZATION:
ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.
3. PERMANENT STABILIZATION:
ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
4. MAXIMUM AREA OF DISTURBANCE: THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREA ARE STABILIZED.
5. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
A) FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
6. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-6.
7. ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-6.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
9. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".
10. SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
11. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.
12. AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
13. ALL FILLS SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHER FACILITIES, SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
14. IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.
15. ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.
16. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
17. THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE ROUGHENING" IN THE NHSMM, VOL.3.
18. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
19. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION.
21. STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
22. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
23. THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NHSMM, VOL. 3)

## CONSTRUCTION PHASING:

1. REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "GENERAL CONSTRUCTION PHASING" NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.
2. INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT SOCK, EROSION CONTROL MIX BERM, STONE CHECK DAMS, ETC.) AROUND THE OUTER PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C-6 PRIOR TO EARTH MOVING OPERATIONS.
3. INSTALL ORANGE SNOW FENCE AROUND THE PEREMITER OF THE INFILTATION BASINS AND THE FENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS HAS STARTED.
4. CLEAR, GRUB AND STRIP THE SITE. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
5. STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILES PRACTICES". MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
6. PERFORM THE NECESSARY CUTS AND FILLS TO CONSTRUCT THE BIORETENTION BASIN AS DEPICTED ON SHEET C-6 AND IN ACCORDANCE WITH THE BIORETENTION BASIN DETAILS SHOWN ON SHEET C-8.
7. ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
8. PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING. A) INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY.
9. INSTALL ALL UTILITIES AND CLOSED DRAINAGE SYSTEM COMPONENTS (I.E. SEPTIC TANK, ROOF GUTTER DOWNSPOUT PIPE) PER THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C-6 AND C-7.
10. ALL CUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
11. INSTALL ALL GRAVEL BASE AND CRUSHED GRAVEL MATERIALS FOR THE CONCRETE SIDEWALKS AND PAVERS AS SPECIFIED IN THE CORRESPONDING DETAILS.
12. INSTALL PAVEMENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN ORDER TO LIMIT THE SOIL EROSION AND POLLUTION OF THE GRAVEL MATERIALS WITH ORGANIC MATERIALS. IN NO CASE SHALL AREAS TO BE PAVED BE LEFT UNPROTECTED THROUGH OUT THE WINTER MONTHS.
13. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND NHSMM, VOL. 3 SHOULD BE EMPLOYED.

MAINTENANCE AND INSPECTION:
14. DURING CONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY, AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY.
15. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
16. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
17. SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE.

PROJECT COMPLETION AND STABILIZATION:
18. UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.
19. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH BASINS AND THE SEDIMENT FOREBAYS TO THE GRAVEL WETLANDS BASIN.

## WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:
1. MAINTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSION CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUED FUNCTION.
2. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

SPECIFICATIONS:
THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.
1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1-ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSMM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.
2. STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NHSMM, VOL. 3 FOR SPECIFICATION).
B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15 SHALL BE SEEDED AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
3. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
5. ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
6. WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX. MULCH SHALL BE REESTABLISHED PRIOR TO ANY RAIN OR SNOWFALL. NO SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WETLAND OR OTHER WATER RESOURCE AREA.
7. FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEN MATERIAL STOCKPILES CAN MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MOISTURE CONTENT.
8. INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
9. ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND SWALES WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
10. ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
11. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAVEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.
12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

## DUST CONTROL PRACTICES:

1. APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
2. WATER APPLICATION:
A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBODIES.
3. STONE APPLICATION:
A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
4. REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

## STOCKPILE PRACTICES:

1. LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
2. PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
3. STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NHSMM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
4. IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
5. PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

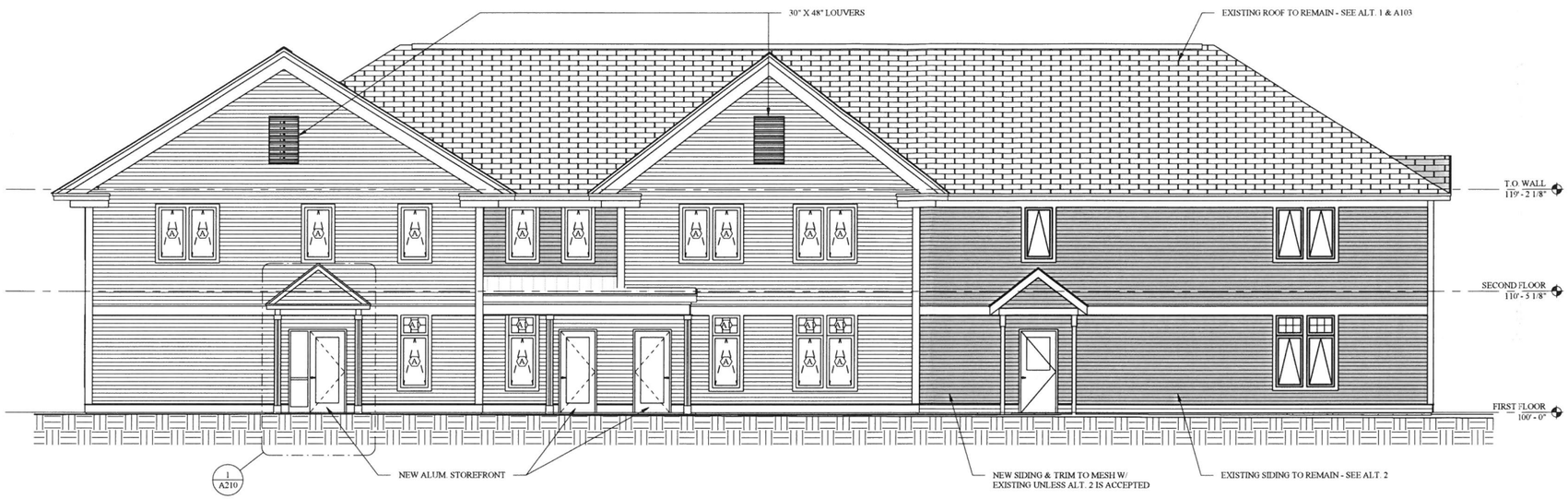
PROTECTION OF INACTIVE STOCKPILES:
6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.

PROTECTION OF ACTIVE STOCKPILES:
8. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE END OF EACH WORKING DAY.
9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

# EROSION AND SEDIMENTATION CONTROL DETAILS
TAX MAP 208, LOT 9
178 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR: CORNERSTONE VNA
MARCH 2020

C-9

31 Mooney Street, Alton, N.H. 603-875-3948 — NORWAY PLAINS ASSOCIATES, INC. — 2 Continental Blvd., Rochester, N.H. 603-335-3948




**2** EAST ELEVATION
Scale: 3/16" = 1'-0"

**1** WEST ELEVATION
Scale: 3/16" = 1'-0"

## GENERAL PLAN NOTES:

1. ALL PRODUCTS/MATERIALS SHOWN ARE GIVEN AS A BASIS OF DESIGN. FINAL PRODUCTS/MATERIALS AND COLORS ARE TO BE SELECTED BY THE OWNER.
2. ALL WINDOWS ARE BASED ON MARVIN INTEGRITY, ALL ULTREX WINDOWS.
3. CLABBOARD SIDING 5" TO WEATHER, BASED ON: CERTAINTEED MONOGRAM HORIZONTAL SIDING, COLOR TO BE SELECTED BY OWNER.

PROGRESS SET NOT FOR CONSTRUCTION

smp ARCHITECTURE
PHONE: 603.228.8880
FAX: 603.228.8881
WWW.SMPARCH.COM

PROJECT:
CORNERSTONE VNA
178 Farmington Rd, Rochester, NH 03867

DRAWING TITLE:
EXTERIOR ELEVATIONS

| | |
|---|---|
| ISSUED: | PROGRESS SET |
| JOB NO: | 1911 |
| DRAWN BY: | RC |
| CHECKED BY: | JL |
| DATE: | 7/27/20 |

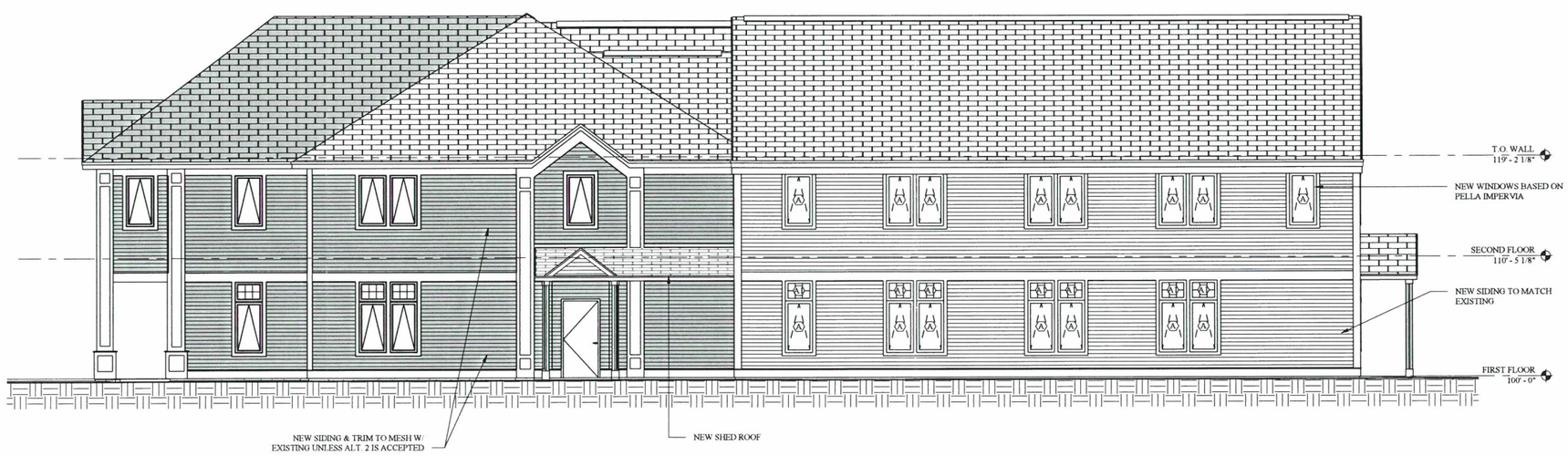
| REVISION | DATE |
|---|---|
| | |

SHEET NUMBER:
**A200**

© 2020 SMP ARCHITECTURE

7/29/2020 1:11:05 PM F:\A-Projects\2019 Projects\Cornerstone VNA 191101-Construction Drawings\Cornerstone VNA Model.rvt

**2** NORTH ELEVATION
Scale: 3/16" = 1'-0"




**1** SOUTH ELEVATION
Scale: 3/16" = 1'-0"

GENERAL PLAN NOTES:

1. ALL PRODUCTS/MATERIALS SHOWN ARE GIVEN AS A BASIS OF DESIGN. FINAL PRODUCTS/MATERIALS AND COLORS ARE TO BE SELECTED BY THE OWNER.
2. ALL WINDOWS ARE BASED ON MARVIN INTEGRITY, ALL ULTREX WINDOWS.
3. CLABBOARD SIDING 5" TO WEATHER, BASED ON CERTAINTEED MONOGRAM HORIZONTAL SIDING. COLOR TO BE SELECTED BY OWNER.

smp ARCHITECTURE
PHONE: 603.228.8880
FAX: 603.228.8881
WWW.SMEERR.COM

PROJECT
CORNERSTONE VNA
178 Farmington Rd, Rochester, NH 03867

DRAWING TITLE:
EXTERIOR ELEVATIONS

| | |
|---|---|
| ISSUED: | PROGRESS SET |
| JOB NO: | 1911 |
| DRAWN BY: | RC |
| CHECKED BY: | JL |
| DATE: | 7/27/20 |

| REVISION | DATE |
|---|---|
| | |

SHEET NUMBER:
A201

PROGRESS SET NOT FOR CONSTRUCTION

© 2020 SMP ARCHITECTURE

7/27/2020 8:28:24 PM F:\A-Projects\2019 Projects\Cornerstone VNA 1911\01-Construction Drawings\Cornerstone VNA Model.rvt