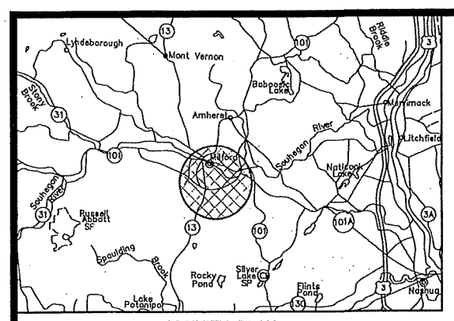
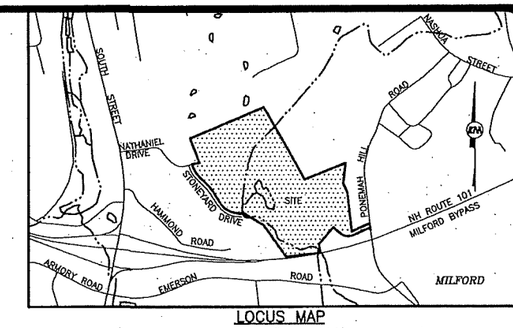


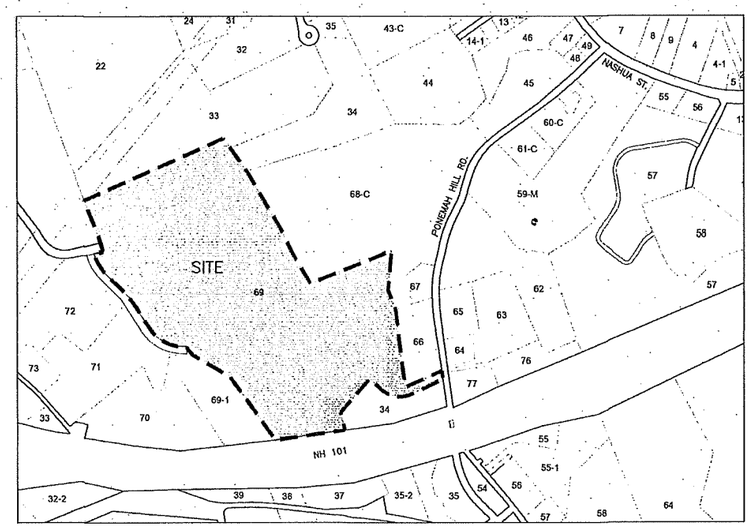
VICINITY PLAN
NOT TO SCALE

RESIDENTIAL SITE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE



LOCUS MAP
SCALE: 1" = 1000'

TOWN OF MILFORD
RECEIVED
FEB 17 2023
PB____ZBA____Office____



TAX MAP PLAN
SCALE: 1" = 500'±

OWNER:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031

APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

PREPARED BY:
KEACH-NORDSTROM ASSOCIATES, INC.
10 COMMERCE PARK NORTH, SUITE 3B
BEDFORD, NEW HAMPSHIRE 03110
(603) 627-2881

DIG SAFE
811

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

FEBRUARY 9, 2023

PROJECT NO. 21-1216-1

SHEET TITLE	SHEET No.
OVERVIEW PLAN	1
SUBDIVISION PLAN	2
TOPOGRAPHIC SUBDIVISION PLAN	3
EXISTING CONDITIONS PLAN	4 – 5
RESIDENTIAL SITE PLAN	6 – 9
GRADING & DRAINAGE PLAN	10 – 13
UTILITY PLAN	14 – 17
EROSION CONTROL PLAN	18 – 21
SIGHT DISTANCE PLAN	22
ROADWAY PLAN & PROFILE	23 – 27
LANDSCAPE PLAN	28 – 31
LIGHTING PLAN	32 – 35
WETLAND IMPACT PLAN	36
CONSTRUCTION DETAILS	37 – 44
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ARCHITECTURAL DRAWINGS
(BY BURNELL JOHNSON ARCHITECTS)

REFERENCE PLANS:

1. "SUBDIVISION PLAN, PONEMAH HILL ROAD." SCALE: 1"=100'. DATED: MAY 8, 1978. PREPARED BY: ALLAN H. SWANSON, INC. H.C.R.D. PLAN #1131
2. "BOUNDARY & SUBDIVISION PLAN, CUTTS ESTATE." SCALE: 1"=100'. DATED: JUNE 1, 1995. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #2776
3. "SUBDIVISION PLAN LAND OF ROGER G. CHAPPELL." SCALE: 1"=40'. DATED: AUGUST 28, 2000. PREPARED BY: MERIDIAN LAND SERVICES. H.C.R.D. PLAN #30761
4. "ALTA/ACSM LAND TITLE SURVEY, WOODLAND HEIGHTS APARTMENTS." SCALE: 1"=50'. DATED: MAY 2, 2003. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #32443
5. "EXISTING CONDITIONS PLAN, QUARRYWOOD GREEN CONDOMINIUMS." SCALE: 1"=50'. DATED: JULY 7, 2006. PREPARED BY: HOLDEN ENGINEERING & SURVEYING, INC. H.C.R.D. PLAN #35053
6. "OVERALL LOT LINE ADJUSTMENT & EASEMENT PLAN." SCALE: AS-SHOWN. DATED: SEPTEMBER 1, 2016. PREPARED BY: SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39063
7. "OVERALL SUBDIVISION PLAN MAP 43 LOT 69; SUBDIVISION PLAN MAP 43 LOT 69" SCALE: AS SHOWN. DATED: JUNE 19, 2018. PREPARED BY SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39996
8. "SUBDIVISION PLAN, THE Q" SCALE: 1"=100'. DATED: FEBRUARY 9, 2023. PREPARED BY KEACH-NORDSTROM ASSOCIATES, INC.

PHASING

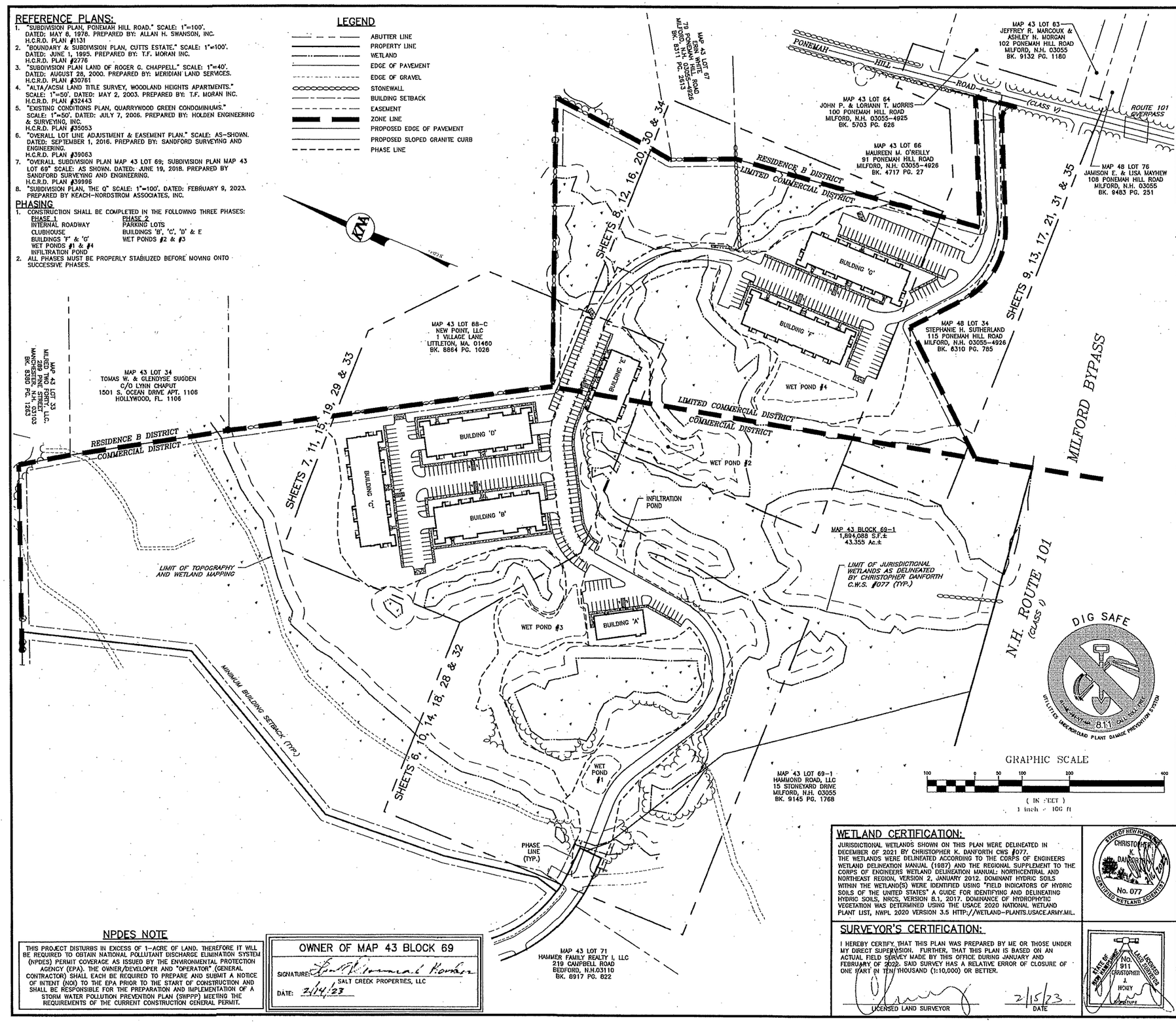
1. CONSTRUCTION SHALL BE COMPLETED IN THE FOLLOWING THREE PHASES:

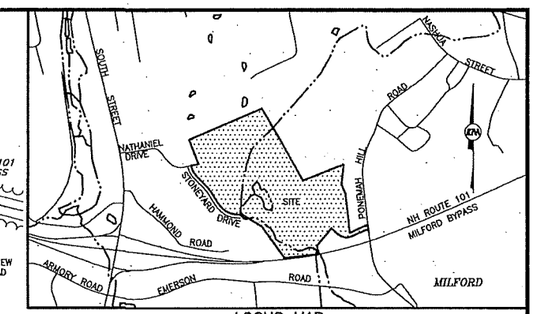
PHASE 1	PHASE 2
INTERNAL ROADWAY	PARKING LOTS
CLUBHOUSE	BUILDINGS 'B', 'C', 'D' & E
BUILDINGS 'F' & 'G'	WET PONDS #2 & #3
WET PONDS #1 & #4	
INFILTRATION POND	

2. ALL PHASES MUST BE PROPERLY STABILIZED BEFORE MOVING ONTO SUCCESSIVE PHASES.

LEGEND

- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- ZONE LINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SLOPED GRANITE CURB
- PHASE LINE





LOCUS MAP

SCALE: 1" = 1000'

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED 216-UNIT APARTMENT COMPLEX CONSISTING OF SIX INDIVIDUAL APARTMENT BUILDINGS AND AN ACCOMPANYING CLUBHOUSE BUILDING ON MAP 43 BLOCK 69 IN THE MILFORD, N.H.
2. EXISTING LOT AREA:
   2,451,980 S.F.± OR 56.290 ACRES±
3. OWNER OF RECORD:
   SALT CREEK PROPERTIES, LLC
   P.O. BOX 967
   AMHERST, N.H. 03031-0967
   BK. 8420 PG. 1596
4. THE SUBJECT PARCEL IS LOCATED WITHIN THE COMMERCIAL (C) & LIMITED COMMERCIAL (LC) ZONING DISTRICT. DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:

	REQUIRED		EXISTING	PROPOSED
ZONING DISTRICT	COMMERCIAL	LIMITED COMMERCIAL	N/A	N/A
MINIMUM LOT AREA	20,000 SF	20,000 SF	1,894,088 SF	1,894,088 SF
MINIMUM LOT FRONTAGE	150 FT	150 FT	90.5 FT	90.5 FT
MINIMUM BUILDING SETBACKS:				
FRONT	30 FT	30 FT	N/A	694.1 FT
SIDE	15 FT*	15 FT*	N/A	36.8 FT
REAR	15 FT*	15 FT*	N/A	693.1 FT
MINIMUM OPEN SPACE	30%	30%	100%	85.4%
MAXIMUM BUILDING HEIGHT	40 FT	35 FT	N/A	56 FT**

*30 FT IF BORDERING A STREET, LANE, OR PUBLIC WAY
**SPECIAL EXCEPTION APPROVED (SEE NOTE #12)

5. HORIZONTAL DATUM IS NAD 83 VERTICAL DATUM IS NAVD 88 OBTAINED THROUGH GPS OBSERVATIONS POST PROCESSED THROUGH NOAA-OPUS.
6. TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON IS THE RESULT OF AN ACTUAL FILED SURVEY PERFORMED BY THIS OFFICE IN JANUARY AND FEBRUARY OF 2022.
7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
8. EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF MILFORD MAP NUMBER 33011C0459D, PANEL NUMBER 459 OF 701 EFFECTIVE DATE: SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA.
9. EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.
10. WETLANDS WERE DELINEATED BY CHRISTOPHER DANFORTH, CERTIFIED WETLAND SCIENTIST #077 OF KEACH-NORDSTROM ASSOCIATES, INC OF BEDFORD, NEW HAMPSHIRE.
11. PARKING CALCULATIONS:
    REQUIRED: 2 SPACES PER DWELLING UNIT @ 216 DWELLING UNITS = 432 SPACES
    PROVIDED: 432 SPACES (INCLUDING 14 HANDICAP SPACES & 76 GARAGE SPACES UNDER BUILDINGS 'B' & 'D')
12. A SPECIAL EXCEPTION FROM ARTICLE V, SECTION 5.05.8.C AND 5.07.7.C OF THE ZONING ORDINANCE WAS GRANTED ON AUGUST 16, 2022 BY THE ZONING BOARD OF ADJUSTMENT TO ALLOW THE CONSTRUCTION OF SIX, MULTIFAMILY BUILDINGS WITH A MAXIMUM HEIGHT OF 56 FEET WHERE 35 FEET IS PERMITTED IN THE 'LCB' ZONING DISTINCT AND 40 FEET IS PERMITTED IN THE 'C' ZONING DISTRICT.
13. A SPECIAL EXCEPTION FROM ARTICLE VI, SECTIONS 6.02.6 AND 6.02.7 OF THE ZONING ORDINANCE WAS GRANTED ON DECEMBER 15, 2022 BY THE ZONING BOARD OF ADJUSTMENT TO DISTURB APPROXIMATELY 5,676 SQUARE FEET OF WETLANDS AREA AND 21,599 SQUARE FEET OF WETLAND BUFFER AREA ASSOCIATED WITH INTERIOR ROADWAY CONSTRUCTION.
14. THIS PROJECT REQUIRES THE FOLLOWING LOCAL, STATE AND FEDERAL PERMITS:

PERMIT	STATUS
NHDES ALTERATION OF TERRAIN	PENDING
NHDES SEWER CONNECTION PERMIT	PENDING
NPDES NOTICE OF INTENT	REQUIRED PRIOR TO CONSTRUCTION
NHDES WETLANDS PERMIT	PENDING

15. ALL WATER, SEWER, ROADWAY, PARKING LOT, AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF MILFORD'S WATER UTILITIES DEPARTMENT AND PUBLIC WORKS DEPARTMENT STANDARDS.
16. IMPACT FEES
17. AS-BUILT PLANS SHALL BE DELIVERED TO THE BUILDING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.
18. A PORTION OF THE SUBJECT SITE IS LOCATED WITHIN THE LEVEL II GROUNDWATER PROTECTION AREA.

DIG SAFE
811
CALL BEFORE YOU DIG
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

OVERVIEW PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering · Land Surveying · Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

WETLAND CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN DECEMBER OF 2021 BY CHRISTOPHER K. DANFORTH CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE 2020 NATIONAL WETLAND PLANT LIST, NWPL 2020 VERSION 3.5 HTTP://WETLAND-PLANTS.USACE.ARMY.MIL.

STATE OF NEW HAMPSHIRE CHRISTOPHER K. DANFORTH No. 077 CERTIFIED WETLAND SCIENTIST

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY, THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE DURING JANUARY AND FEBRUARY OF 2022. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

LICENSED LAND SURVEYOR — DATE: 2/15/23

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 911 CHRISTOPHER J. HOXEY SIGNATURE

2/15/23

NPDES NOTE

THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.

OWNER OF MAP 43 BLOCK 69
SIGNATURE: [signature]
SALT CREEK PROPERTIES, LLC
DATE: 2/14/23

REVISIONS

No.	DATE	DESCRIPTION	BY

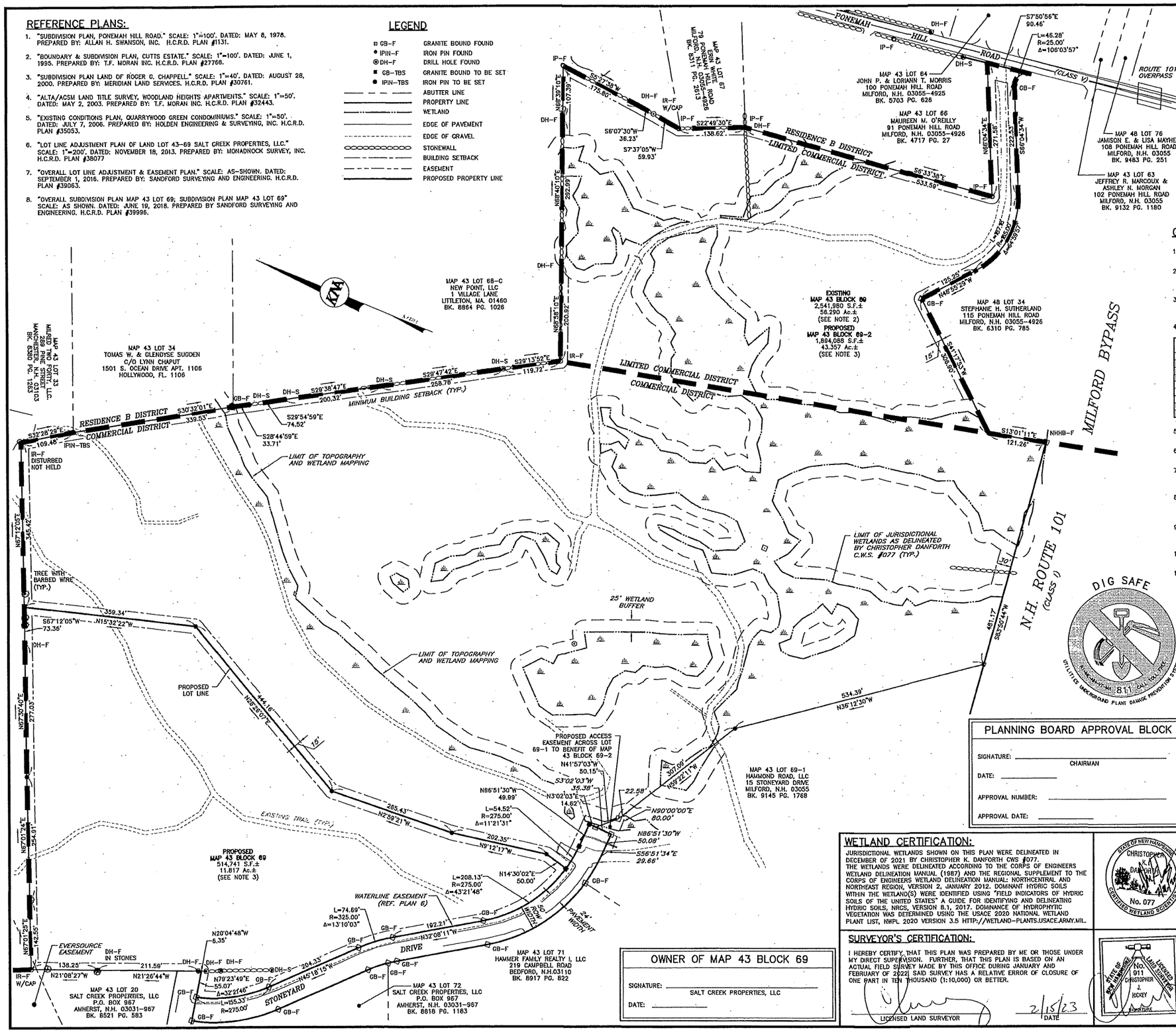
DATE: FEBRUARY 9, 2023	SCALE: 1" = 100'
PROJECT NO: 21-1216-1	SHEET 1 OF 45

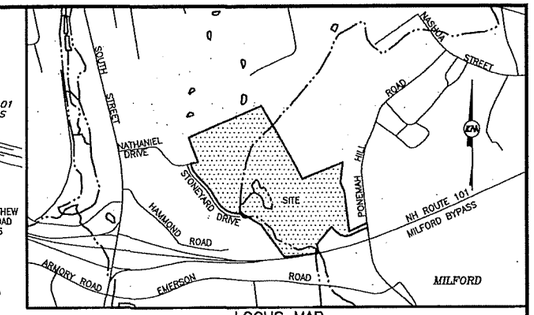
REFERENCE PLANS:

1. "SUBDIVISION PLAN, PONEMAH HILL ROAD." SCALE: 1"=100'. DATED: MAY 8, 1978. PREPARED BY: ALLAN H. SWANSON, INC. H.C.R.D. PLAN #1131.
2. "BOUNDARY & SUBDIVISION PLAN, CUTTS ESTATE." SCALE: 1"=100'. DATED: JUNE 1, 1995. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #27766.
3. "SUBDIVISION PLAN LAND OF ROGER G. CHAPPELL." SCALE: 1"=40'. DATED: AUGUST 28, 2000. PREPARED BY: MERIDIAN LAND SERVICES. H.C.R.D. PLAN #30761.
4. "ALTA/ACSM LAND TITLE SURVEY, WOODLAND HEIGHTS APARTMENTS." SCALE: 1"=50'. DATED: MAY 2, 2003. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #32443.
5. "EXISTING CONDITIONS PLAN, QUARRYWOOD GREEN CONDOMINIUMS." SCALE: 1"=50'. DATED: JULY 7, 2006. PREPARED BY: HOLDEN ENGINEERING & SURVEYING, INC. H.C.R.D. PLAN #35053.
6. "LOT LINE ADJUSTMENT PLAN OF LAND LOT 43-69 SALT CREEK PROPERTIES, LLC." SCALE: 1"=200'. DATED: NOVEMBER 18, 2013. PREPARED BY: MONADNOCK SURVEY, INC. H.C.R.D. PLAN #38077
7. "OVERALL LOT LINE ADJUSTMENT & EASEMENT PLAN." SCALE: AS-SHOWN. DATED: SEPTEMBER 1, 2016. PREPARED BY: SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39063.
8. "OVERALL SUBDIVISION PLAN MAP 43 LOT 69; SUBDIVISION PLAN MAP 43 LOT 69" SCALE: AS SHOWN. DATED: JUNE 19, 2018. PREPARED BY SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39995.

LEGEND

GB-F	GRANITE BOUND FOUND
IPIN-F	IRON PIN FOUND
DH-F	DRILL HOLE FOUND
GB-TBS	GRANITE BOUND TO BE SET
IPIN-TBS	IRON PIN TO BE SET
	ABUTTER LINE
	PROPERTY LINE
	WETLAND
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	STONEWALL
	BUILDING SETBACK
	EASEMENT
	PROPOSED PROPERTY LINE





LOCUS MAP
SCALE: 1" = 1000'

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED SUBDIVISION OF MAP 43 BLOCK 69 INTO TWO INDIVIDUAL LOTS IN THE TOWN OF MILFORD, N.H.
2. EXISTING LOT AREA:
   MAP 43 BLOCK 69 = 2,451,980 S.F.± OR 56.290 ACRES± (WHICH INCLUDES THE STONEYARD DRIVE RIGHT OF WAY THAT HAS NOT YET BEEN DEEDED TO THE TOWN OF MILFORD)
3. PROPOSED LOT AREAS (EXCLUDING THE STONEYARD DRIVE RIGHT OF WAY):
   MAP 43 BLOCK 69 = 557,892 S.F.± OR 12.807 ACRES±
   MAP 43 BLOCK 69-1 = 1,894,088 S.F.± OR 43.355 ACRES±
4. THE SUBJECT PARCEL IS LOCATED WITHIN THE COMMERCIAL (C) & LIMITED COMMERCIAL (LC) ZONING DISTRICT. DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:

	REQUIRED		EXISTING	PROPOSED BLOCK 69	PROPOSED BLOCK 69-2
ZONING DISTRICT	COMMERCIAL	LIMITED COMMERCIAL	N/A	N/A	N/A
MINIMUM LOT AREA	20,000 SF	20,000 SF	2,451,980 SF	0 SF	0 SF
MINIMUM LOT FRONTAGE	150 FT	150 FT	90.5 FT	150 FT	150 FT
MINIMUM BUILDING SETBACKS:					
FRONT	30 FT	30 FT	N/A	30 FT	30 FT
SIDE	15 FT*	15 FT*	N/A	15 FT*	15 FT*
REAR	15 FT*	15 FT*	N/A	15 FT*	15 FT*
MINIMUM OPEN SPACE	30%	30%	100%	XX	XX
MAXIMUM BUILDING HEIGHT	40 FT	45 FT	N/A	XX	XX

*30 FT IF BORDERING A STREET, LANE, OR PUBLIC WAY

5. HORIZONTAL DATUM IS NAD 83 VERTICAL DATUM IS NAVD 88 OBTAINED THROUGH GPS OBSERVATIONS BASED UPON NHDOT CONTROL POINT 303-0340.
6. TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON IS THE RESULT OF AN ACTUAL FILED SURVEY PERFORMED BY THIS OFFICE IN JANUARY AND FEBRUARY OF 2022.
7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
8. EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF MILFORD MAP NUMBER 33011C0459D, PANEL NUMBER 459 OF 701 EFFECTIVE DATE: SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA.
9. EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.
10. WETLANDS WERE DELINEATED BY CHRISTOPHER DANFORTH, CERTIFIED WETLAND SCIENTIST #077 OF KEACH-NORDSTROM ASSOCIATES, INC OF BEDFORD, NEW HAMPSHIRE.
11. A PORTION OF THE SUBJECT SITE IS LOCATED WITHIN THE LEVEL II GROUNDWATER PROTECTION AREA.

DIG SAFE
811 CALL TOLL FREE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

PLANNING BOARD APPROVAL BLOCK

SIGNATURE: _____ CHAIRMAN
DATE: _____
APPROVAL NUMBER: _____
APPROVAL DATE: _____

OWNER OF MAP 43 BLOCK 69

SIGNATURE: _____ SALT CREEK PROPERTIES, LLC
DATE: _____

WETLAND CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN DECEMBER OF 2021 BY CHRISTOPHER K. DANFORTH CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE 2020 NATIONAL WETLAND PLANT LIST, NWPL 2020 VERSION 3.5 HTTP://WETLAND-PLANTS.USACE.ARMY.MIL.

STATE OF NEW HAMPSHIRE CHRISTOPHER K. DANFORTH No. 077 CERTIFIED WETLAND SCIENTIST

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LICENSED LAND SURVEYOR _____ DATE 2/15/23

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 911 CHRISTOPHER J. HICKEY SIGNATURE

SUBDIVISION PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 100'
PROJECT NO: 21-1216-1 | SHEET 2 OF 45

LEGEND

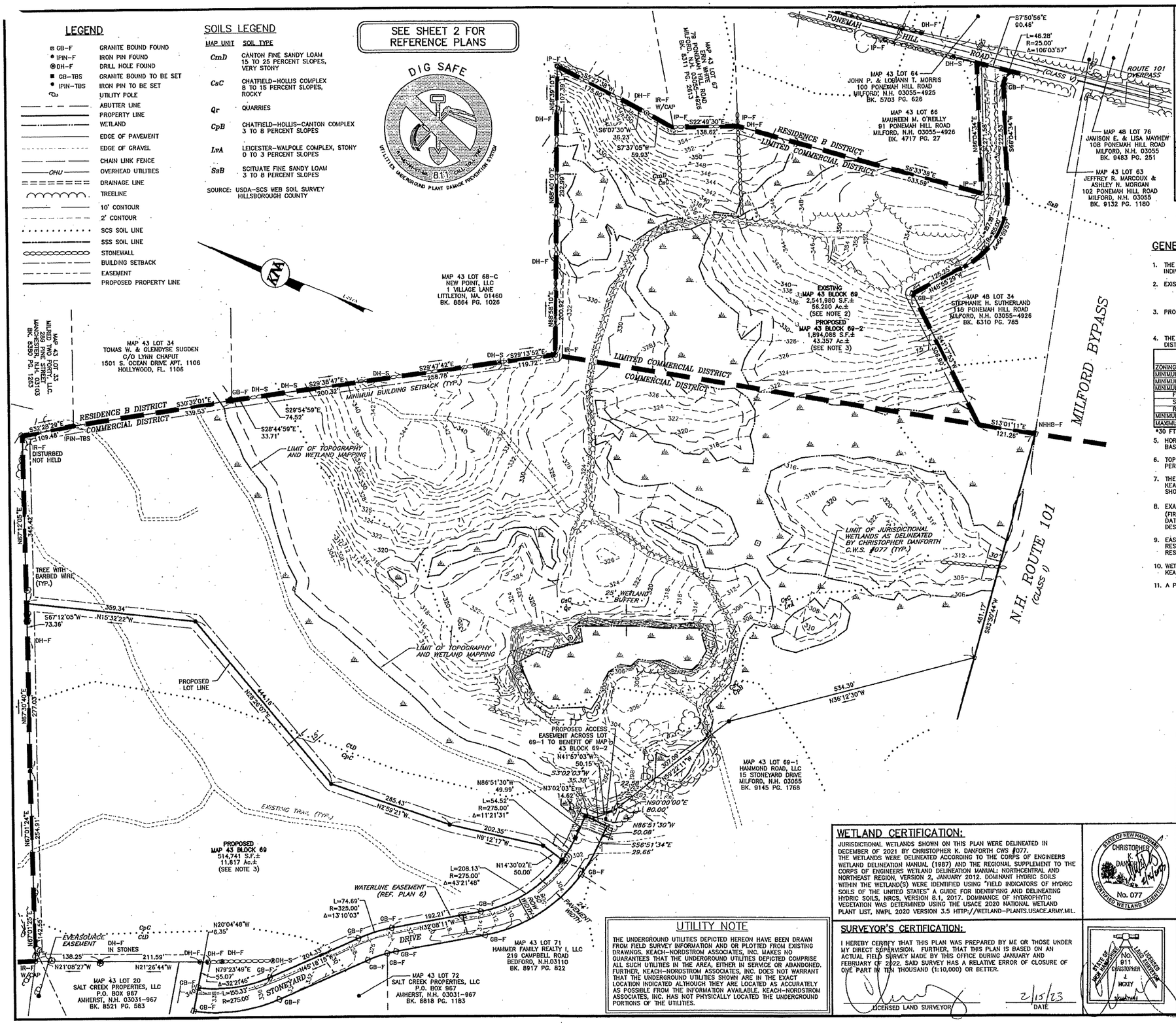
- GB-F — GRANITE BOUND FOUND
- IPIN-F — IRON PIN FOUND
- DH-F — DRILL HOLE FOUND
- GB-TBS — GRANITE BOUND TO BE SET
- IPIN-TBS — IRON PIN TO BE SET
- UTILITY POLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CHAIN LINK FENCE
- OHU — OVERHEAD UTILITIES
- DRAINAGE LINE
- TREELINE
- 10' CONTOUR
- 2' CONTOUR
- SCS SOIL LINE
- SSS SOIL LINE
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED PROPERTY LINE

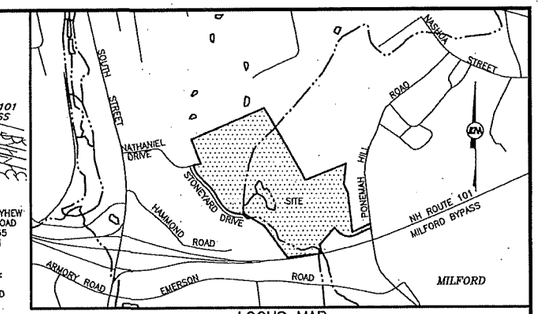
SOILS LEGEND

MAP UNIT	SOIL TYPE
CmD	CANTON FINE SANDY LOAM 15 TO 25 PERCENT SLOPES, VERY STONY
CaC	CHATFIELD-HOLLIS COMPLEX 8 TO 15 PERCENT SLOPES, ROCKY
Qr	QUARRIES
CpB	CHATFIELD-HOLLIS-CANTON COMPLEX 3 TO 8 PERCENT SLOPES
LvA	LEICESTER-WALPOLE COMPLEX, STONY 0 TO 3 PERCENT SLOPES
SaB	SCITUATE FINE SANDY LOAM 3 TO 8 PERCENT SLOPES

SOURCE: USDA-SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

SEE SHEET 2 FOR REFERENCE PLANS





LOCUS MAP
SCALE: 1" = 1000'

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED SUBDIVISION OF MAP 43 BLOCK 69 INTO TWO INDIVIDUAL LOTS IN THE TOWN OF MILFORD, N.H.
2. EXISTING LOT AREA:
   MAP 43 BLOCK 69 = 2,451,980 S.F.± OR 56.290 ACRES± (WHICH INCLUDES THE STONEYARD DRIVE RIGHT OF WAY THAT HAS NOT YET BEEN DEEDED TO THE TOWN OF MILFORD)
3. PROPOSED LOT AREAS (EXCLUDING THE STONEYARD DRIVE RIGHT OF WAY):
   MAP 43 BLOCK 69 = 557,692 S.F.± OR 12.807 ACRES±
   MAP 43 BLOCK 69-1 = 1,894,088 S.F.± OR 43.355 ACRES±
4. THE SUBJECT PARCEL IS LOCATED WITHIN THE COMMERCIAL (C) & LIMITED COMMERCIAL (LC) ZONING DISTRICT. DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:

	REQUIRED		EXISTING	PROPOSED BLOCK 69	PROPOSED BLOCK 69-2
ZONING DISTRICT	COMMERCIAL	LIMITED COMMERCIAL	N/A	N/A	N/A
MINIMUM LOT AREA	20,000 SF	20,000 SF	2,451,980 SF	0 SF	0 SF
MINIMUM LOT FRONTAGE	150 FT	150 FT	90.5 FT	150 FT	150 FT
MINIMUM BUILDING SETBACKS:					
FRONT	30 FT	30 FT	N/A	30 FT	30 FT
SIDE	15 FT*	15 FT*	N/A	15 FT*	15 FT*
REAR	15 FT*	15 FT*	N/A	15 FT*	15 FT*
MINIMUM OPEN SPACE	30%	30%	100%	XX	XX
MAXIMUM BUILDING HEIGHT	40 FT	45 FT	N/A	XX	XX

*30 FT IF BORDERING A STREET, LANE, OR PUBLIC WAY

5. HORIZONTAL DATUM IS NAD 83 VERTICAL DATUM IS NAVD 88 OBTAINED THROUGH GPS OBSERVATIONS BASED UPON NHDOT CONTROL POINT 303-0340.
6. TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON IS THE RESULT OF AN ACTUAL FILED SURVEY PERFORMED BY THIS OFFICE IN JANUARY AND FEBRUARY OF 2022.
7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
8. EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF MILFORD MAP NUMBER 33011C0459D, PANEL NUMBER 459 OF 701 EFFECTIVE DATE: SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA.
9. EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.
10. WETLANDS WERE DELINEATED BY CHRISTOPHER DANFORTH, CERTIFIED WETLAND SCIENTIST #077 OF KEACH-NORDSTROM ASSOCIATES, INC OF BEDFORD, NEW HAMPSHIRE.
11. A PORTION OF THE SUBJECT SITE IS LOCATED WITHIN THE LEVEL II GROUNDWATER PROTECTION AREA.

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

UTILITY NOTE

THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN DRAWN FROM FIELD SURVEY INFORMATION AND OR PLOTTED FROM EXISTING DRAWINGS. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, KEACH-NORDSTROM ASSOCIATES, INC. DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. KEACH-NORDSTROM ASSOCIATES, INC. HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.

WETLAND CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN DECEMBER OF 2021 BY CHRISTOPHER K. DANFORTH CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE 2020 NATIONAL WETLAND PLANT LIST, NWPL 2020 VERSION 3.5 HTTP://WETLAND-PLANTS.USACE.ARMY.MIL.

STATE OF NEW HAMPSHIRE
CHRISTOPHER K. DANFORTH
No. 077
CERTIFIED WETLAND SCIENTIST

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE DURING JANUARY AND FEBRUARY OF 2022. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

LICENSED LAND SURVEYOR — DATE 2/15/23

STATE OF NEW HAMPSHIRE
LICENSED LAND SURVEYOR
No. 911
CHRISTOPHER J. HOXEY

TOPOGRAPHIC SUBDIVISION PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023	SCALE: 1" = 100'
PROJECT NO: 21-1216-1	SHEET 3 OF 45

SOILS LEGEND

MAP UNIT	SOIL TYPE
CmD	CANTON FINE SANDY LOAM 15 TO 25 PERCENT SLOPES, VERY STONY
CsC	CHATFIELD–HOLLIS COMPLEX 8 TO 15 PERCENT SLOPES, ROCKY
Qr	QUARRIES
CpB	CHATFIELD–HOLLIS–CANTON COMPLEX 3 TO 8 PERCENT SLOPES
LvA	LEICESTER–WALPOLE COMPLEX, STONY 0 TO 3 PERCENT SLOPES
SsB	SCITUATE FINE SANDY LOAM 3 TO 8 PERCENT SLOPES

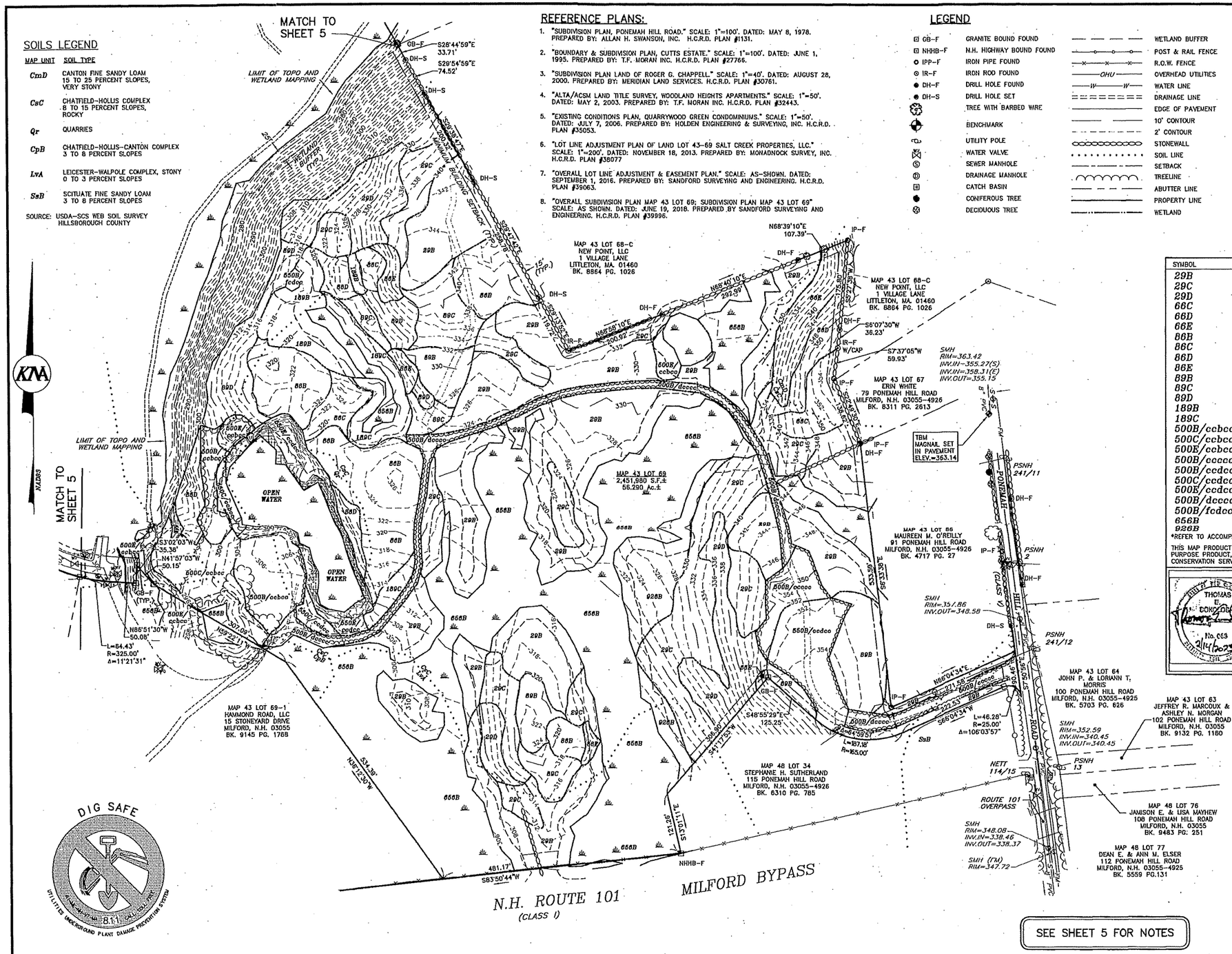
SOURCE: USDA–SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

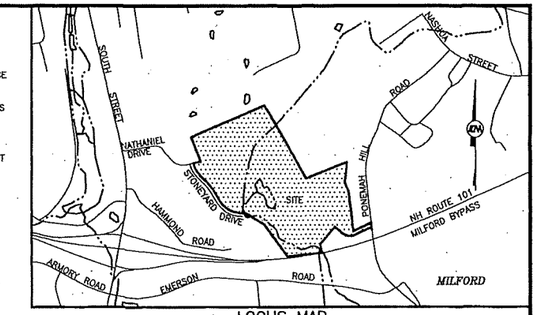
REFERENCE PLANS:

1. "SUBDIVISION PLAN, PONEMAH HILL ROAD." SCALE: 1"=100'. DATED: MAY 8, 1978. PREPARED BY: ALLAN H. SWANSON, INC. H.C.R.D. PLAN #1131.
2. "BOUNDARY & SUBDIVISION PLAN, CUTTS ESTATE." SCALE: 1"=100'. DATED: JUNE 1, 1995. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #27766.
3. "SUBDIVISION PLAN LAND OF ROGER G. CHAPPELL." SCALE: 1"=40'. DATED: AUGUST 28, 2000. PREPARED BY: MERIDIAN LAND SERVICES. H.C.R.D. PLAN #30761.
4. "ALTA/ACSM LAND TITLE SURVEY, WOODLAND HEIGHTS APARTMENTS." SCALE: 1"=50'. DATED: MAY 2, 2003. PREPARED BY: T.F. MORAN INC. H.C.R.D. PLAN #32443.
5. "EXISTING CONDITIONS PLAN, QUARRYWOOD GREEN CONDOMINIUMS." SCALE: 1"=50'. DATED: JULY 7, 2006. PREPARED BY: HOLDEN ENGINEERING & SURVEYING, INC. H.C.R.D. PLAN #35053.
6. "LOT LINE ADJUSTMENT PLAN OF LAND LOT 43–69 SALT CREEK PROPERTIES, LLC." SCALE: 1"=200'. DATED: NOVEMBER 18, 2013. PREPARED BY: MONADNOCK SURVEY, INC. H.C.R.D. PLAN #38077
7. "OVERALL LOT LINE ADJUSTMENT & EASEMENT PLAN." SCALE: AS–SHOWN. DATED: SEPTEMBER 1, 2016. PREPARED BY: SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39063.
8. "OVERALL SUBDIVISION PLAN MAP 43 LOT 69; SUBDIVISION PLAN MAP 43 LOT 69" SCALE: AS SHOWN. DATED: JUNE 19, 2018. PREPARED BY SANDFORD SURVEYING AND ENGINEERING. H.C.R.D. PLAN #39996.

LEGEND

GB–F	GRANITE BOUND FOUND		WETLAND BUFFER
NHHB–F	N.H. HIGHWAY BOUND FOUND		POST & RAIL FENCE
IPP–F	IRON PIPE FOUND		R.O.W. FENCE
IR–F	IRON ROD FOUND	OHU	OVERHEAD UTILITIES
DH–F	DRILL HOLE FOUND	W	WATER LINE
DH–S	DRILL HOLE SET		DRAINAGE LINE
	TREE WITH BARBED WIRE		EDGE OF PAVEMENT
	BENCHMARK		10' CONTOUR
	UTILITY POLE		2' CONTOUR
	WATER VALVE		STONEWALL
	SEWER MANHOLE		SOIL LINE
	DRAINAGE MANHOLE		SETBACK
	CATCH BASIN		TREELINE
	CONIFEROUS TREE		ABUTTER LINE
	DECIDUOUS TREE		PROPERTY LINE
			WETLAND





LOCUS MAP

SCALE: 1" = 1000'

SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSG
29B	WOODBRIDGE FINE SANDY LOAM	0–8%	MODERATELY WELL	C
29C	WOODBRIDGE FINE SANDY LOAM	8–15%	MODERATELY WELL	C
29D	WOODBRIDGE FINE SANDY LOAM	15–25%	MODERATELY WELL	C
66C	PAXTON FINE SANDY LOAM	8–15%	WELL	C
66D	PAXTON FINE SANDY LOAM	15–25%	WELL	C
66E	PAXTON FINE SANDY LOAM	25%+	WELL	C
86B	HOLLIS FINE SANDY LOAM	0–8%	WELL	D
86C	HOLLIS FINE SANDY LOAM	8–15%	WELL	D
86D	HOLLIS FINE SANDY LOAM	15–25%	WELL	D
86E	HOLLIS FINE SANDY LOAM	25%+	WELL	D
89B	CHATFIELD FINE SANDY LOAM	0–8%	WELL	B
89C	CHATFIELD FINE SANDY LOAM	8–15%	WELL	B
89D	CHATFIELD FINE SANDY LOAM	15–25%	WELL	B
189B	CHATFIELD FINE SANDY LOAM, MWD	0–8%	MODERATELY WELL	B
189C	CHATFIELD FINE SANDY LOAM, MWD	8–15%	MODERATELY WELL	B
500B/ccbcc	UDORTHENTS, LOAMY	0–8%	WELL	B
500C/ccbcc	UDORTHENTS, LOAMY	8–15%	WELL	B
500E/ccbcc	UDORTHENTS, LOAMY	25%+	WELL	B
500B/ccccc	UDORTHENTS, LOAMY	0–8%	WELL	C
500B/ccdcc	UDORTHENTS, LOAMY	0–8%	WELL	D
500C/ccdcc	UDORTHENTS, LOAMY	8–15%	WELL	D
500E/ccdcc	UDORTHENTS, LOAMY	25%+	WELL	D
500B/dcccc	UDORTHENTS, LOAMY	0–8%	MODERATELY WELL	C
500B/fcdcc	UDORTHENTS, LOAMY	0–8%	POORLY	D
656B	RIDGEBURY FINE SANDY LOAM	0–8%	POORLY	C
926B	RIDGEBURY (SPD)	0–8%	SOMEWHAT POORLY	C

*REFER TO ACCOMPANYING REPORT FOR 5–UNIT SUPPLEMENTAL SYMBOL EXPLANATION

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOILS SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, PRODUCED BY A CERTIFIED SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE. THERE IS A NARRATIVE REPORT THAT ACCOMPANIES THIS MAP AND MAP KEY.

STATE OF NEW HAMPSHIRE THOMAS E. SOKOLOSKI No. 063 2/14/2023 CERTIFIED SOIL SCIENTIST

THIS DETAILED SITE–SPECIFIC SOIL MAP, PREPARED ON MAY 2 AND 18, 2022 BY THOMAS E. SOKOLOSKI, CERTIFIED SOIL SCIENTIST #063 OF TES ENVIRONMENTAL CONSULTANTS, L.L.C. IN BOW, NEW HAMPSHIRE, CONFORMS TO THE STANDARDS OF SSSNNE PUBLICATION NO. 3, VERSION 7.0, "SITE–SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERMONT, JULY 2021. THIS MAP HAS BEEN PREPARED TO COMPLY WITH SOIL MAPPING REQUIREMENTS OF RSA 485 A: 17 AND NHDES ENV–WQ 1500, ALTERATION OF TERRAIN. SEE ACCOMPANYING REPORT FOR METHODOLOGY, MAP SYMBOL LEGEND, AND INTERPRETATIONS. USE OF THE MAP SYMBOL DENOMINATORS FOR DISTURBED OR ALTERED SOILS, WHERE GIVEN, IS AT THE DISCRETION OF THE CERTIFIED SOIL SCIENTIST.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

EXISTING CONDITIONS
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627–2881

UTILITY NOTE

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STATE OF NEW HAMPSHIRE CHRISTOPHER K. DANFORTH No. 077 CERTIFIED WETLAND SCIENTIST

WETLAND CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN DECEMBER OF 2021 BY CHRISTOPHER K. DANFORTH CWS #077.
THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE 2020 NATIONAL WETLAND PLANT LIST, NWPL 2020 VERSION 3.5 HTTP://WETLAND–PLANTS.USACE.ARMY.MIL.

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LICENSED LAND SURVEYOR — DATE 2/15/23

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 911 CHRISTOPHER J. PIOREY

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 — SCALE: 1" = 100'
PROJECT NO: 21–1216–1 — SHEET 4 OF 45

SEE SHEET 4 FOR REFERENCE PLANS

LEGEND

- GB-F — GRANITE BOUND FOUND
- IR-F — IRON ROD FOUND
- DH-F — DRILL HOLE FOUND
- TREE WITH BARBED WIRE
- UTILITY POLE
- WATER VALVE
- HYDRANT
- SEWER MANHOLE
- CATCH BASIN
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- WETLAND BUFFER
- OHU — OVERHEAD UTILITIES
- W — WATER LINE
- DRAINAGE LINE
- TREELINE
- EDGE OF PAVEMENT
- 10' CONTOUR
- 2' CONTOUR
- STONEWALL
- SOIL LINE
- SETBACK
- EASEMENT
- TREELINE

SOILS LEGEND

MAP UNIT	SOIL TYPE
CpB	CHATFIELD–HOLLIS–CANTON COMPLEX 3 TO 8 PERCENT SLOPES
CtD	CHATFIELD–HOLLIS–ROCK OUTCROP COMPLEX 15 TO 35 PERCENT SLOPES

SOURCE: USDA–SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSG
29B	WOODBRIDGE FINE SANDY LOAM	0–8%	MODERATELY WELL	C
29C	WOODBRIDGE FINE SANDY LOAM	8–15%	MODERATELY WELL	C
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500B/ccdcc	UDORTHENTS, LOAMY	0–8%	WELL	D
500C/ccdcc	UDORTHENTS, LOAMY	8–15%	WELL	D
500E/ccdcc	UDORTHENTS, LOAMY	25%+	WELL	D
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*REFER TO ACCOMPANYING REPORT FOR 5–UNIT SUPPLEMENTAL SYMBOL EXPLANATION

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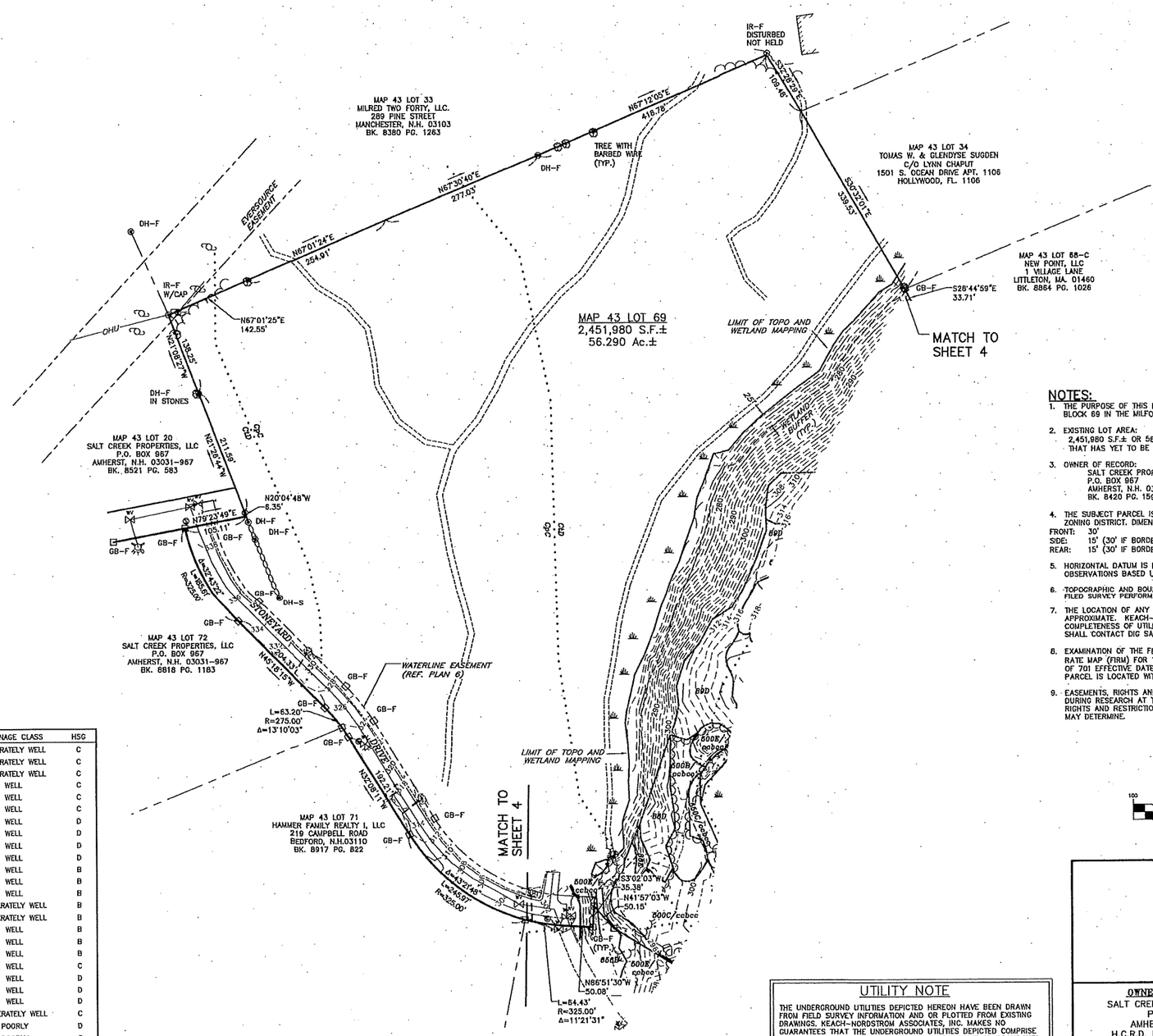
STATE OF NEW HAMPSHIRE THOMAS E. SOKOLOSKI No. 663 CERTIFIED SOIL SCIENTIST 2/14/2023

THIS DETAILED SITE–SPECIFIC SOIL MAP, PREPARED ON MAY 2 AND 18, 2022 BY THOMAS E. SOKOLOSKI, CERTIFIED SOIL SCIENTIST #663 OF TES ENVIRONMENTAL CONSULTANTS, L.L.C. IN BOW, NEW HAMPSHIRE, CONFORMS TO THE STANDARDS OF SSSNNE PUBLICATION NO. 3, VERSION 7.0, "SITE–SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERMONT", JULY 2021. THIS MAP HAS BEEN PREPARED TO COMPLY WITH SOIL MAPPING REQUIREMENTS OF RSA 485 A: 17 AND NHDES ENV–WQ 1500, ALTERATION OF TERRAIN. SEE ACCOMPANYING REPORT FOR METHODOLOGY, MAP SYMBOL LEGEND, AND INTERPRETATIONS. USE OF THE MAP SYMBOL DENOMINATORS FOR DISTURBED OR ALTERED SOILS, WHERE GIVEN, IS AT THE DISCRETION OF THE CERTIFIED SOIL SCIENTIST.



NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING CONDITIONS PRESENT ON MAP 43 BLOCK 69 IN THE MILFORD, N.H.
2. EXISTING LOT AREA: 2,451,980 S.F.± OR 56.290 ACRES± (WHICH INCLUDES THE STONEYARD DRIVE RIGHT OF WAY THAT HAS YET TO BE DEEDED TO THE TOWN OF MILFORD)
3. OWNER OF RECORD: SALT CREEK PROPERTIES, LLC P.O. BOX 967 AMHERST, N.H. 03031-0967 BK. 8420 PG. 1596
4. THE SUBJECT PARCEL IS LOCATED WITHIN THE COMMERCIAL (C) & LIMITED COMMERCIAL (LC) ZONING DISTRICT. DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:
   FRONT: 30'
   SIDE: 15' (30' IF BORDERING A STREET, LANE OR PUBLIC WAY)
   REAR: 15' (30' IF BORDERING A STREET, LANE OR PUBLIC WAY)
5. HORIZONTAL DATUM IS NAD 83 VERTICAL DATUM IS NAVD 88 OBTAINED THROUGH GPS OBSERVATIONS BASED UPON NHDOT CONTROL POINT 303-0340.
6. TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON IS THE RESULT OF AN ACTUAL FILED SURVEY PERFORMED BY THIS OFFICE IN JANUARY AND FEBRUARY OF 2022.
7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH–NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
8. EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF MILFORD MAP NUMBER 33011C0459D, PANEL NUMBER 459 OF 701 EFFECTIVE DATE: SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA.
9. EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

UTILITY NOTE

THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN DRAWN FROM FIELD SURVEY INFORMATION AND OR PLOTTED FROM EXISTING DRAWINGS. KEACH–NORDSTROM ASSOCIATES, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, KEACH–NORDSTROM ASSOCIATES, INC. DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. KEACH–NORDSTROM ASSOCIATES, INC. HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.

STATE OF NEW HAMPSHIRE CHRISTOPHER K. DANFORTH No. 077 CERTIFIED WETLAND SCIENTIST

WETLAND CERTIFICATION:

JURISDICTIONAL WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN DECEMBER OF 2021 BY CHRISTOPHER K. DANFORTH CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2, JANUARY 2012. DOMINANT HYDRIC SOILS WITHIN THE WETLAND(S) WERE IDENTIFIED USING "FIELD INDICATORS OF HYDRIC SOILS OF THE UNITED STATES" A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, NRCS, VERSION 8.1, 2017. DOMINANCE OF HYDROPHYTIC VEGETATION WAS DETERMINED USING THE USACE 2020 NATIONAL WETLAND PLANT LIST, NWPL 2020 VERSION 3.5 HTTP://WETLAND-PLANTS.USACE.ARMY.MIL.

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE DURING JANUARY AND FEBRUARY OF 2022. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

LICENSED LAND SURVEYOR — DATE 2/15/23

STATE OF NEW HAMPSHIRE No. 911 CHRISTOPHER J. McKEY LICENSED LAND SURVEYOR SIGNATURE

EXISTING CONDITIONS
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

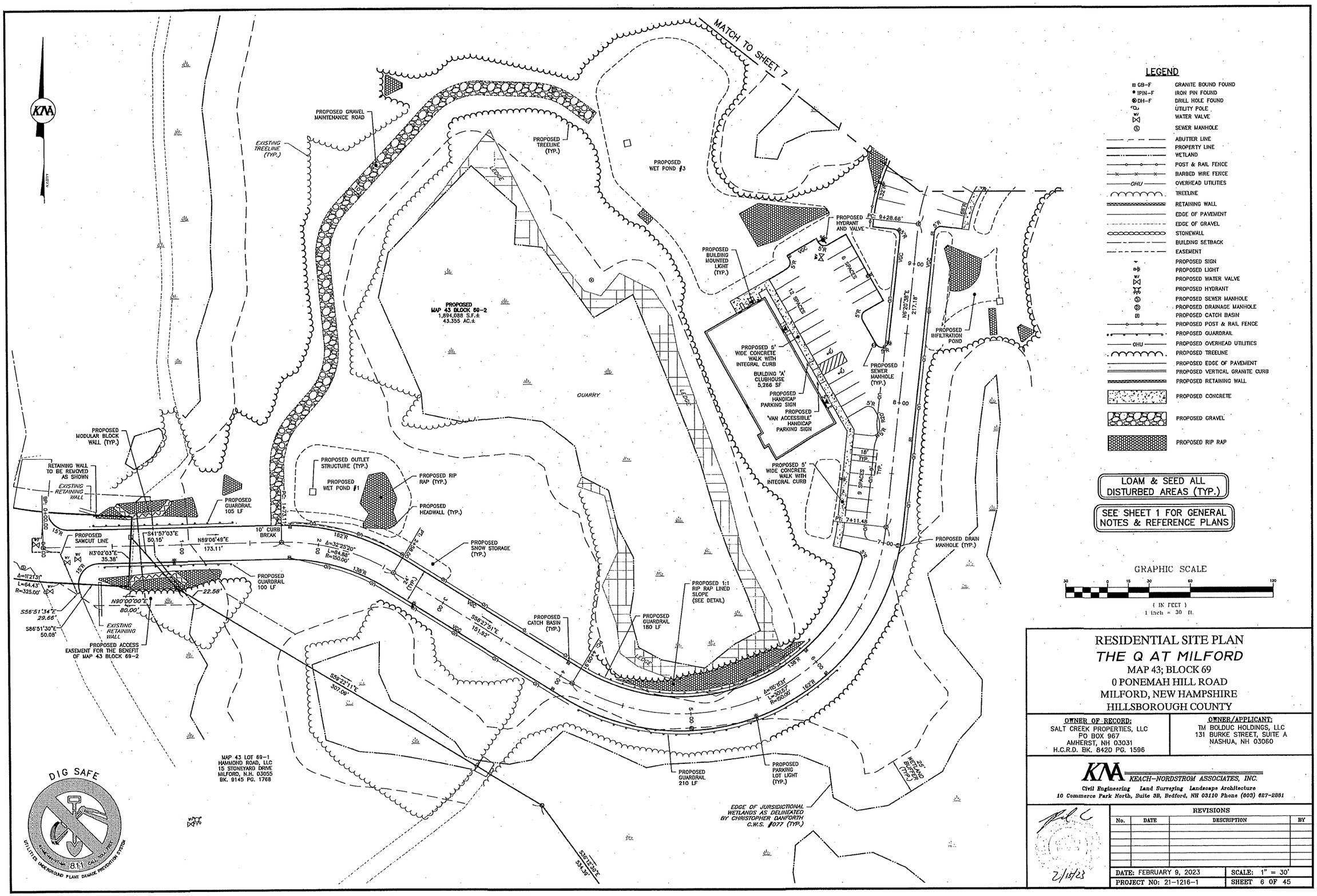
OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 100'
PROJECT NO: 21-1216-1 | SHEET 5 OF 45



LEGEND

- GB-F — GRANITE BOUND FOUND
- IPIN-F — IRON PIN FOUND
- DH-F — DRILL HOLE FOUND
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
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- BARBED WIRE FENCE
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- STONEWALL
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- EASEMENT
- PROPOSED SIGN
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- PROPOSED SEWER MANHOLE
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- PROPOSED RETAINING WALL
- PROPOSED CONCRETE
- PROPOSED GRAVEL
- PROPOSED RIP RAP

LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 1 FOR GENERAL NOTES & REFERENCE PLANS

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

RESIDENTIAL SITE PLAN
THE Q AT MILFORD

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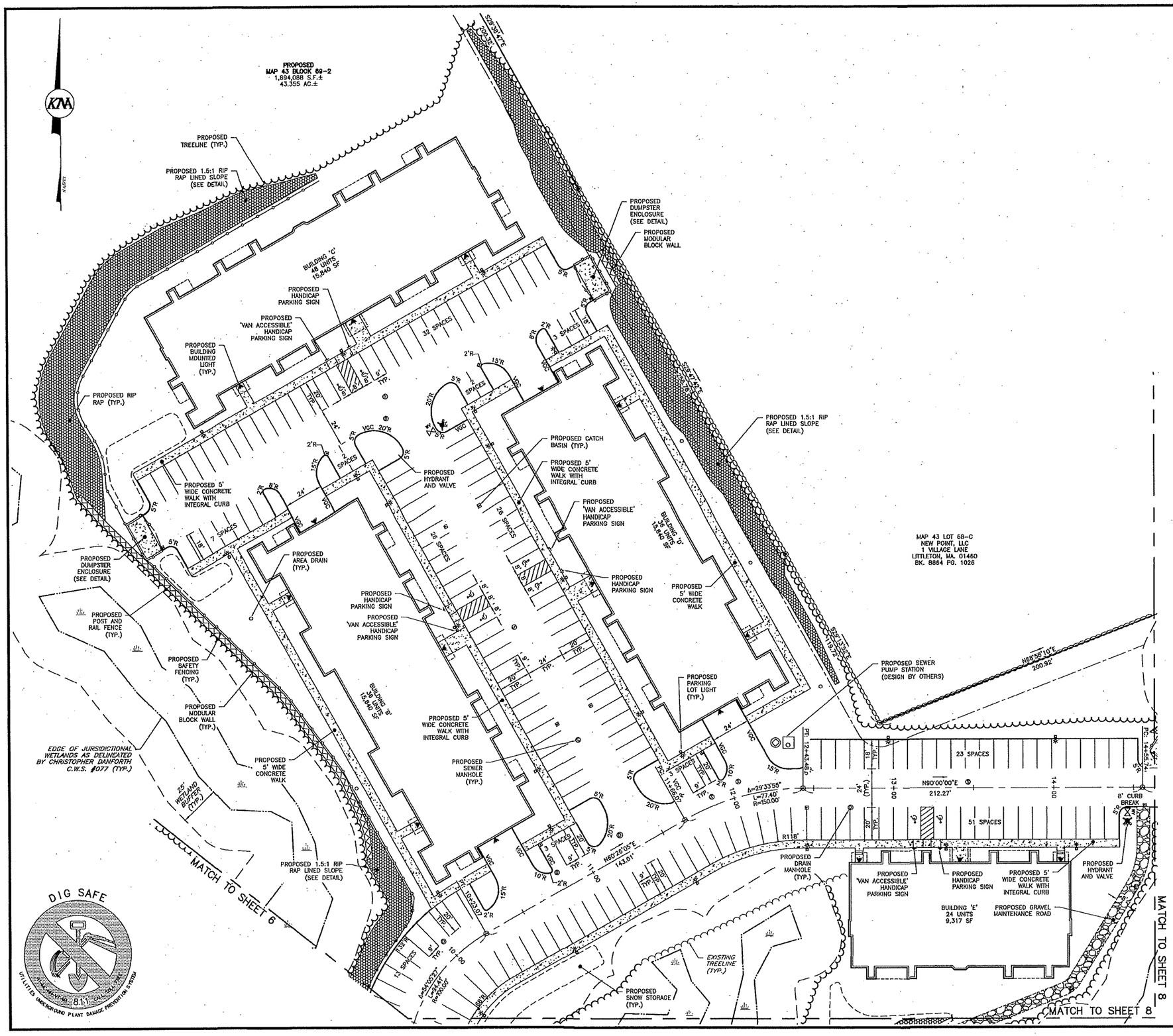

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MATCH TO SHEET 7

MATCH TO SHEET 9

PROPOSED SEWER MANHOLE (TYP.)

PROPOSED 1.5:1 RIP RAP LINED SLOPE (SEE DETAIL)

PROPOSED GUARDRAIL 350 LF

PROPOSED GUARDRAIL 300 LF

PROPOSED TREELINE (TYP.)

PROPOSED PARKING LOT LIGHT (TYP.)

MAP 43 LOT 68-C
NEW POINT, LLC
1 VILLAGE LANE
LITTLETON, MA 01460
BK. 8864 PG. 1026

MAP 43 LOT 67
ERIN WHITE
79 PONEMAH HILL ROAD
MILFORD, N.H. 03055-4926
BK. 8311 PG. 2613

MAP 43 LOT 66
MAUREEN M. O'REILLY
91 PONEMAH HILL ROAD
MILFORD, N.H. 03055-4926
BK. 4717 PG. 27

MINIMUM BUILDING SETBACK (TYP.)

PROPOSED WET POND #2

PROPOSED GRAVEL MAINTENANCE ROAD

EDGE OF JURSIDICTIONAL WETLANDS AS DELINEATED BY CHRISTOPHER DANFORTH C.W.S. #077 (TYP.)

PROPOSED MODULAR BLOCK WALL (TYP.)

PROPOSED MAP 43 BLOCK 69-2
1,894,088 S.F.±
43.355 AC.±

25' WETLAND BUFFER (TYP.)

PROPOSED LANDSCAPE WALL

PROPOSED SNOW STORAGE (TYP.)

PROPOSED 'VAN ACCESSIBLE' HANDICAP PARKING SIGN

PROPOSED HANDICAP PARKING SIGN

BUILDING 'F'
36 UNITS
15,840 SF

PROPOSED BUILDING MOUNTED LIGHT (TYP.)

PROPOSED SAFETY FENCING (TYP.)

PROPOSED DUMPSTER ENCLOSURE (SEE DETAIL)

PROPOSED WET POND #4

PROPOSED OUTLET STRUCTURE (TYP.)

PROPOSED 5' WIDE CONCRETE WALK WITH INTEGRAL CURB

BUILDING 'G'
36 UNITS
15,840 SF

PROPOSED RIP RAP (TYP.)

PROPOSED HEADWALL (TYP.)

PROPOSED HYDRANT AND VALVE

PROPOSED GRAVEL MAINTENANCE ROAD

7 SPACES
26 SPACES
26 SPACES
27 SPACES
24 SPACES
10 SPACES
11 SPACES

DIG SAFE
811
CALL 48 HOURS BEFORE YOU DIG
DIAL 811 TO REQUEST UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

LEGEND

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LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 1 FOR GENERAL NOTES & REFERENCE PLANS

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(IN FEET)
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RESIDENTIAL SITE PLAN
THE Q AT MILFORD

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2/15/23

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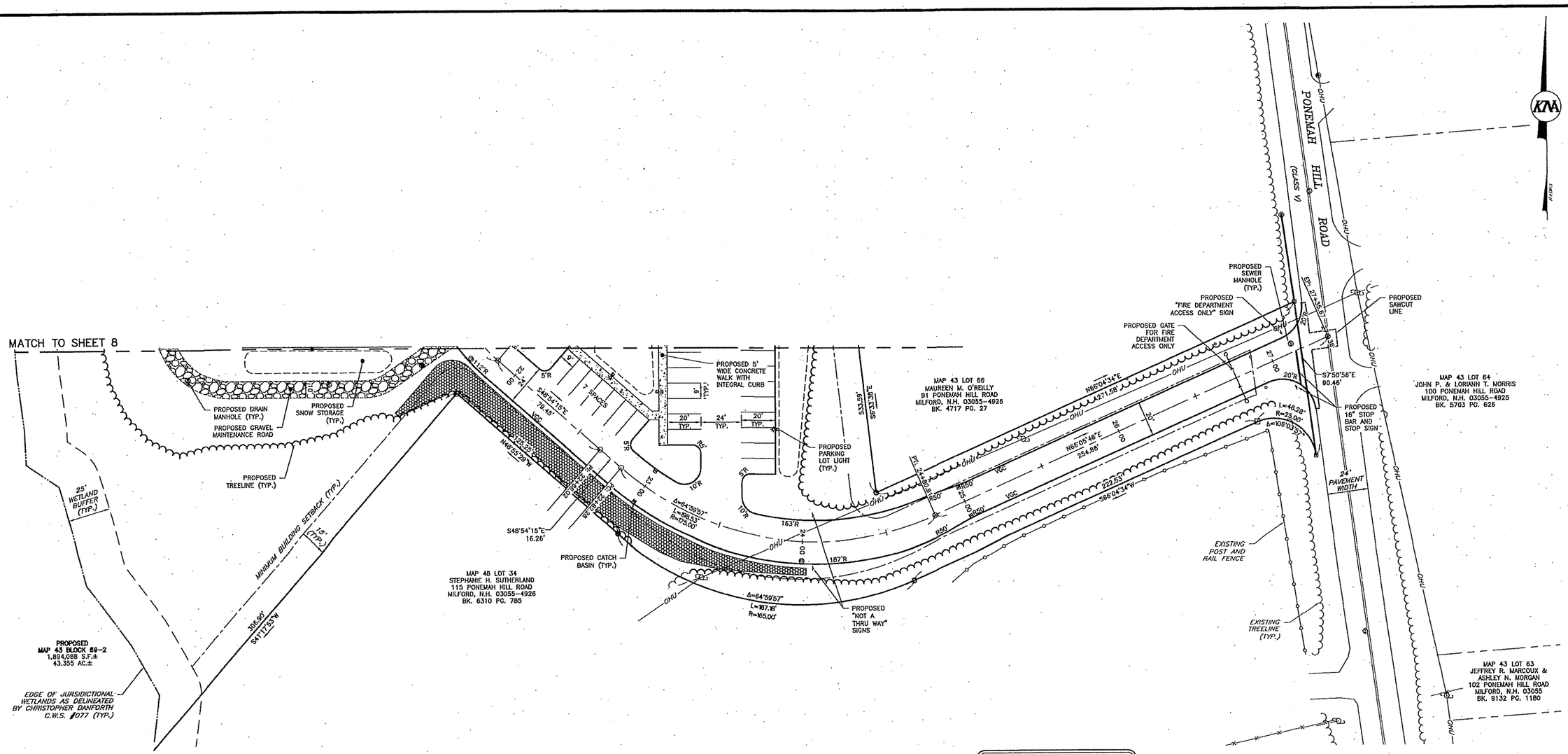

LOAM & SEED ALL DISTURBED AREAS (TYP.)

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DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
888-DIG-SAFE (344-7233)

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RESIDENTIAL SITE PLAN
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LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 11 FOR SITE SPECIFIC SOILS LEGEND

CONSTRUCTION NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED GRADING AND DRAINAGE SYSTEMS FOR THIS SITE.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF MILFORD, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, APPROVED AND ADOPTED 2016 ARE HEREBY INCORPORATED BY REFERENCE.
3. ALL DRAINAGE PIPE SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. SEE DETAILS FOR DRAINAGE SPECIFICATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 811 AT LEAST 72 HOURS BEFORE DIGGING.
6. ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDED.

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- BARBED WIRE FENCE
- OHU — OVERHEAD UTILITIES
- W — WATER LINE
- DRAINAGE LINE
- 10' CONTOUR
- 2' CONTOUR
- SCS SOIL LINE
- SSS SOIL LINE
- TREELINE
- RETAINING WALL
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED SIGN
- PROPOSED LIGHT
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- UGU — PROPOSED UNDERGROUND UTILITIES
- W — W — PROPOSED WATER LINE
- S — S — PROPOSED SEWER LINE
- FM — FM — PROPOSED FORCE MAIN
- PS — PS — PROPOSED PRESSURE SEWER
- PROPOSED DRAINAGE LINE
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GRADING & DRAINAGE PLAN
THE Q AT MILFORD

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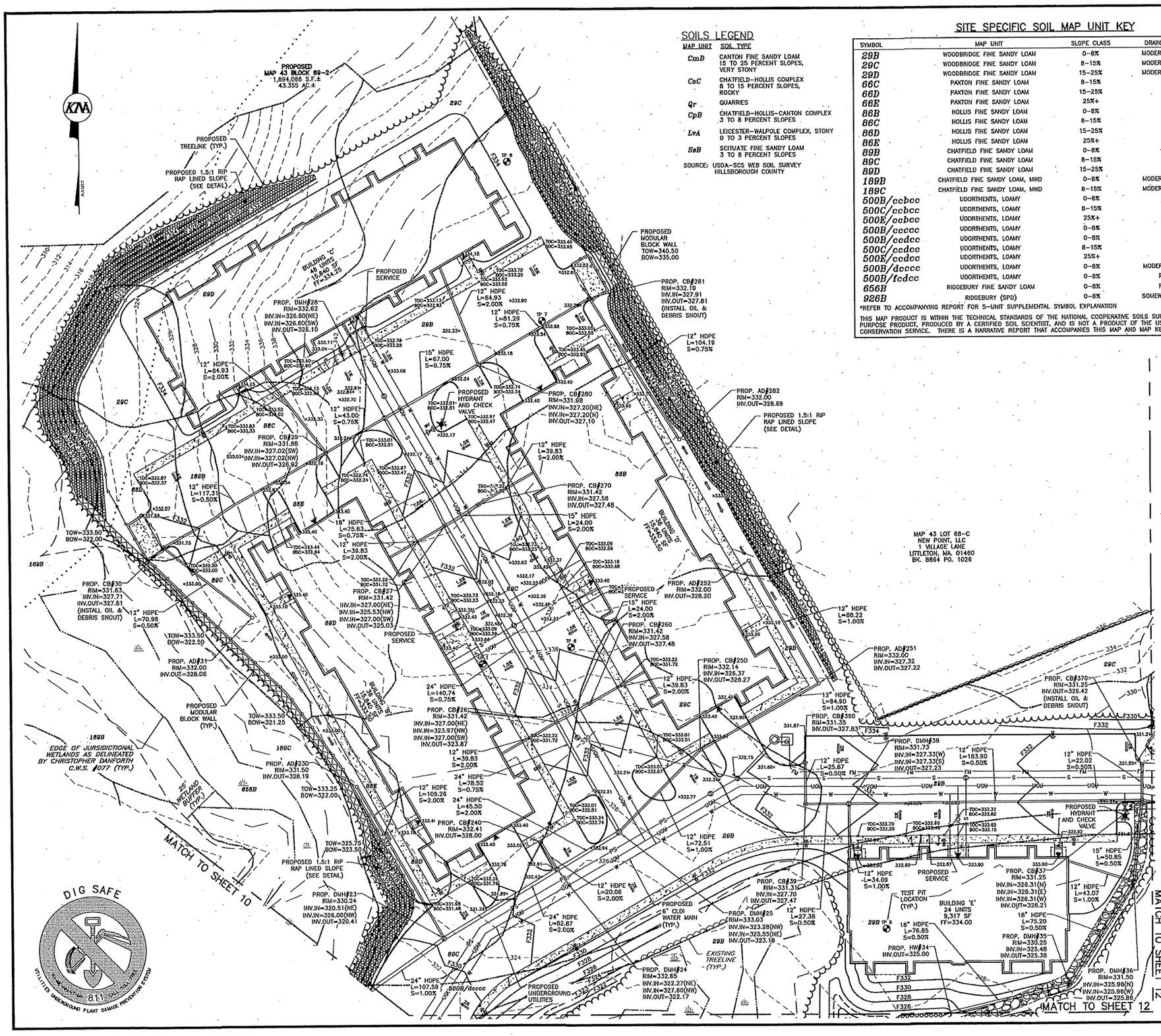
DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
811



SOILS LEGEND

MAP UNIT	SOIL TYPE
CmD	CANTON FINE SANDY LOAM 15 TO 25 PERCENT SLOPES, VERY STONY
CsC	CHATFIELD–HOLLIS COMPLEX 8 TO 15 PERCENT SLOPES, ROCKY
Qr	QUARRIES
CpB	CHATFIELD–HOLLIS–CANTON COMPLEX 3 TO 8 PERCENT SLOPES
LvA	LEICESTER–WALPOLE COMPLEX, STONY 0 TO 3 PERCENT SLOPES
SzB	SCITUATE FINE SANDY LOAM 3 TO 8 PERCENT SLOPES

SOURCE: USDA–SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSG
29B	WOODBRIDGE FINE SANDY LOAM	0–8%	MODERATELY WELL	C
29C	WOODBRIDGE FINE SANDY LOAM	8–15%	MODERATELY WELL	C
29D	WOODBRIDGE FINE SANDY LOAM	15–25%	MODERATELY WELL	C
66C	PAXTON FINE SANDY LOAM	8–15%	WELL	C
66D	PAXTON FINE SANDY LOAM	15–25%	WELL	C
66E	PAXTON FINE SANDY LOAM	25%+	WELL	C
86B	HOLLIS FINE SANDY LOAM	0–8%	WELL	D
86C	HOLLIS FINE SANDY LOAM	8–15%	WELL	D
86D	HOLLIS FINE SANDY LOAM	15–25%	WELL	D
86E	HOLLIS FINE SANDY LOAM	25%+	WELL	D
89B	CHATFIELD FINE SANDY LOAM	0–8%	WELL	B
89C	CHATFIELD FINE SANDY LOAM	8–15%	WELL	B
89D	CHATFIELD FINE SANDY LOAM	15–25%	WELL	B
189B	CHATFIELD FINE SANDY LOAM, MWD	0–8%	MODERATELY WELL	B
189C	CHATFIELD FINE SANDY LOAM, MWD	8–15%	MODERATELY WELL	B
500B/ccbcc	UDORTHENTS, LOAMY	0–8%	WELL	B
500C/ccbcc	UDORTHENTS, LOAMY	8–15%	WELL	B
500E/ccbcc	UDORTHENTS, LOAMY	25%+	WELL	B
500B/ccccc	UDORTHENTS, LOAMY	0–8%	WELL	C
500B/ccdcc	UDORTHENTS, LOAMY	0–8%	WELL	D
500C/ccdcc	UDORTHENTS, LOAMY	8–15%	WELL	D
500E/ccdcc	UDORTHENTS, LOAMY	25%+	WELL	D
500B/dcccc	UDORTHENTS, LOAMY	0–8%	MODERATELY WELL	C
500B/fcdcc	UDORTHENTS, LOAMY	0–8%	POORLY	D
656B	RIDGEBURY FINE SANDY LOAM	0–8%	POORLY	C
926B	RIDGEBURY (SPD)	0–8%	SOMEWHAT POORLY	C

*REFER TO ACCOMPANYING REPORT FOR 5–UNIT SUPPLEMENTAL SYMBOL EXPLANATION

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOILS SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, PRODUCED BY A CERTIFIED SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE. THERE IS A NARRATIVE REPORT THAT ACCOMPANIES THIS MAP AND MAP KEY.

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- PROPOSED RETAINING WALL

SEE SHEET 10 FOR NOTES

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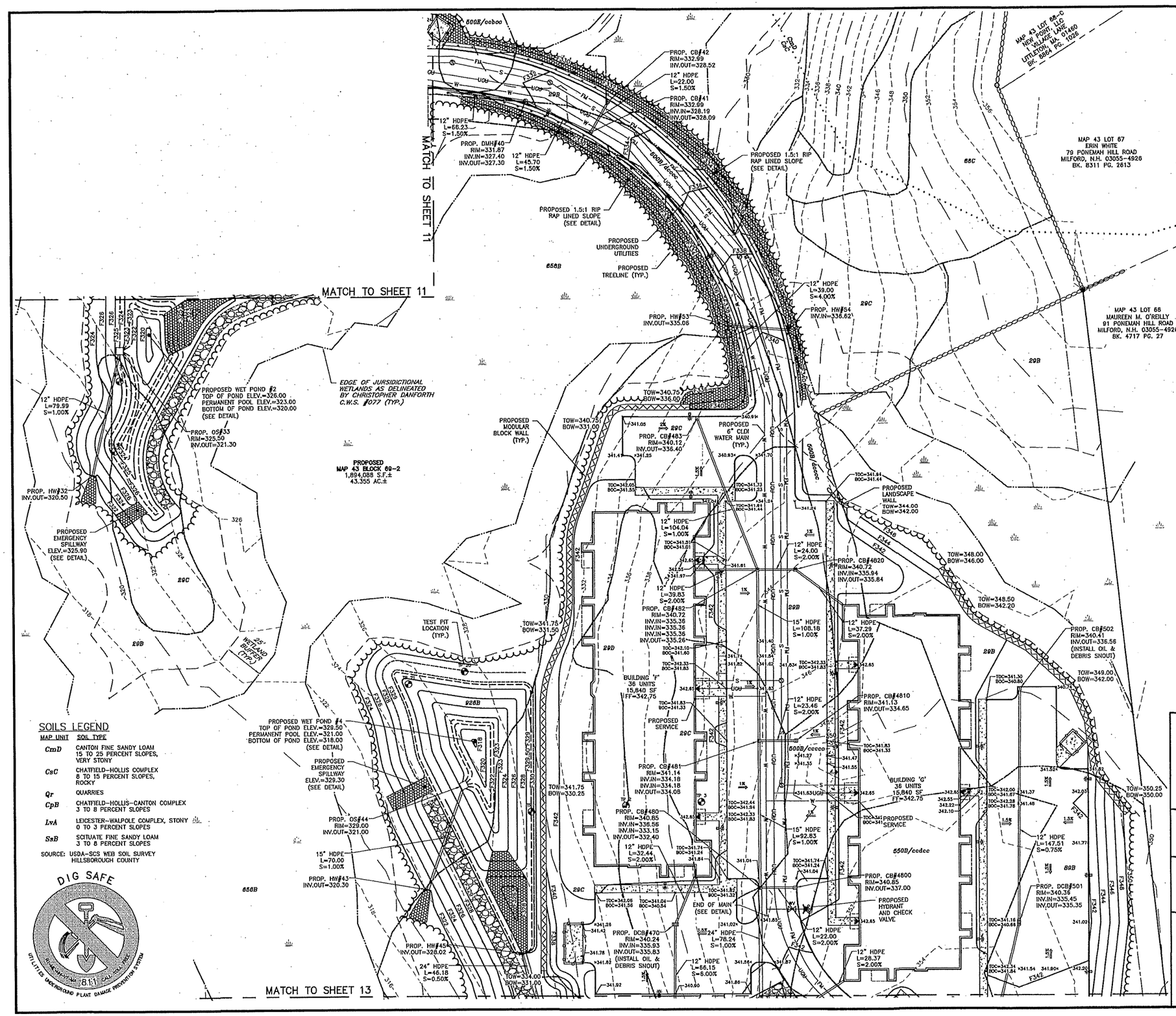

SEE SHEET 10 FOR NOTES

SEE SHEET 11 FOR SITE SPECIFIC SOILS LEGENDS

LEGEND

- GB-F GRANITE BOUND FOUND
- IPIN-F IRON PIN FOUND
- DH-F DRILL HOLE FOUND
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- POST & RAIL FENCE
- BARBED WIRE FENCE
- OHU OVERHEAD UTILITIES
- W WATER LINE
- DRAINAGE LINE
- 10' CONTOUR
- 2' CONTOUR
- SCS SOIL LINE
- SSS SOIL LINE
- TREELINE
- RETAINING WALL
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED SIGN
- PROPOSED LIGHT
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED SEWER MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED POST & RAIL FENCE
- PROPOSED GUARDRAIL
- UGU PROPOSED UNDERGROUND UTILITIES
- W PROPOSED WATER LINE
- S PROPOSED SEWER LINE
- FM PROPOSED FORCE MAIN
- PS PROPOSED PRESSURE SEWER
- PROPOSED DRAINAGE LINE
- PROPOSED 2' CONTOUR
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED VERTICAL GRANITE CURB
- PROPOSED RETAINING WALL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

GRADING & DRAINAGE PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
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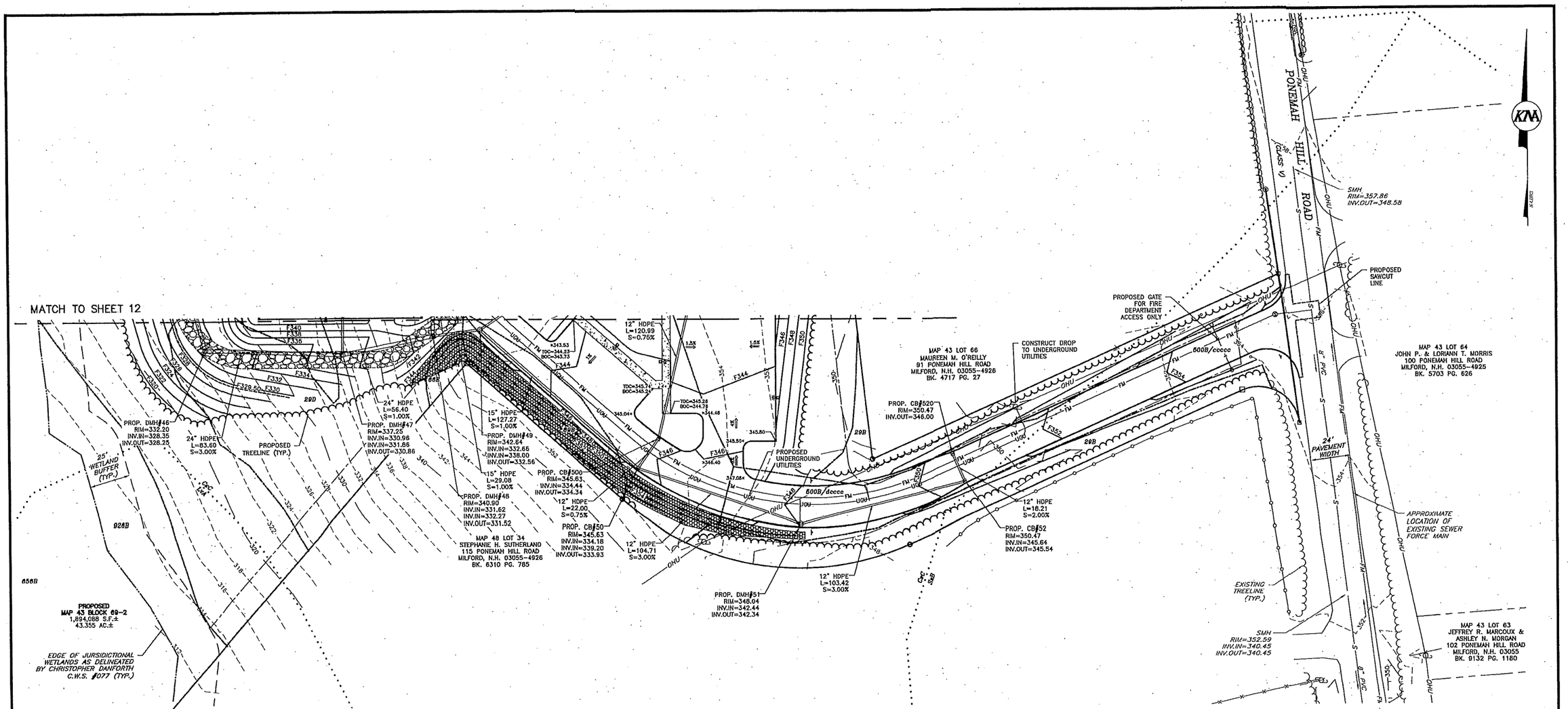

SEE SHEET 10 FOR NOTES

SEE SHEET 12 FOR SITE SPECIFIC SOILS LEGEND

SOILS LEGEND

MAP UNIT	SOIL TYPE
CmD	CANTON FINE SANDY LOAM 15 TO 25 PERCENT SLOPES, VERY STONY
CsC	CHATFIELD-HOLLIS COMPLEX 8 TO 15 PERCENT SLOPES, ROCKY
Qr	QUARRIES
CpB	CHATFIELD-HOLLIS-CANTON COMPLEX 3 TO 8 PERCENT SLOPES
LvA	LEICESTER-WALPOLE COMPLEX, STONY 0 TO 3 PERCENT SLOPES
SsB	SCITUATE FINE SANDY LOAM 3 TO 8 PERCENT SLOPES

SOURCE: USDA-SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

LEGEND

GB-F GRANITE BOUND FOUND
IPIN-F IRON PIN FOUND
DH-F DRILL HOLE FOUND
UTILITY POLE
WATER VALVE
SEWER MANHOLE
ABUTTER LINE
PROPERTY LINE
WETLAND
POST & RAIL FENCE
BARBED WIRE FENCE
OHU OVERHEAD UTILITIES
W WATER LINE
DRAINAGE LINE
10' CONTOUR
2' CONTOUR
SCS SOIL LINE
SSS SOIL LINE
TREELINE
RETAINING WALL
EDGE OF PAVEMENT
EDGE OF GRAVEL
STONEWALL
BUILDING SETBACK
EASEMENT

PROPOSED SIGN
PROPOSED LIGHT
PROPOSED WATER VALVE
PROPOSED HYDRANT
PROPOSED SEWER MANHOLE
PROPOSED DRAINAGE MANHOLE
PROPOSED CATCH BASIN
PROPOSED POST & RAIL FENCE
PROPOSED GUARDRAIL
UGU PROPOSED UNDERGROUND UTILITIES
W PROPOSED WATER LINE
S PROPOSED SEWER LINE
FM PROPOSED FORCE MAIN
PS PROPOSED PRESSURE SEWER
PROPOSED DRAINAGE LINE
PROPOSED 2' CONTOUR
PROPOSED TREELINE
PROPOSED EDGE OF PAVEMENT
PROPOSED VERTICAL GRANITE CURB
PROPOSED RETAINING WALL

DIG SAFE
811
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

GRADING & DRAINAGE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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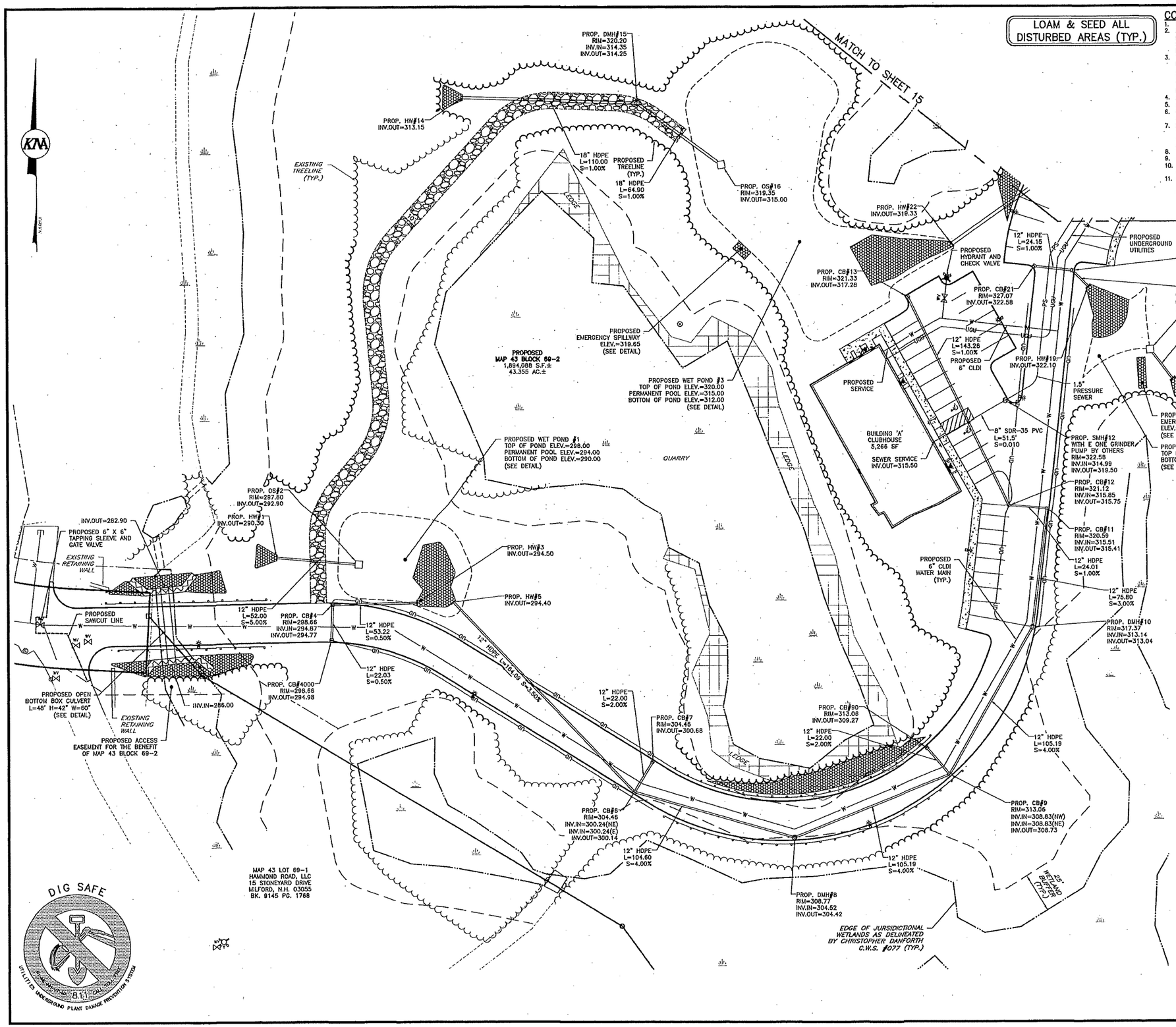

CONSTRUCTION NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED UTILITY SYSTEMS FOR THIS SITE.
2. ALL WORK SHALL CONFORM TO THE TOWN OF MILFORD, LATEST EDITION, CONSTRUCTION STANDARDS AND DETAILS. IN THE ABSENCE OF A CITY STANDARD/SPECIFICATION, WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS PUBLISHED BY THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, ARE HEREBY INCORPORATED BY REFERENCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 811 AT LEAST 72 HOURS BEFORE DIGGING.
4. ALL DISTURBED AREAS NOT TO BE PAVED SHALL BE LOAMED AND SEEDED.
5. ALL PIPES SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. CONTRACTOR TO VERIFY SIZE OF WATER AND GAS SERVICE LINES WITH MECHANICAL CONTRACTOR/FIRE SUPPRESSION ENGINEER PRIOR TO THE START OF CONSTRUCTION.
7. PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO ORDERING ANY WATER SYSTEM/SERVICE PARTS, THE PROPOSED SIZE OF THE VARIOUS WATER SERVICES SHALL BE CONFIRMED BY THE PROJECT FIRE SUPPRESSION ENGINEER. ANY ADJUSTMENTS TO THE DESIGN MUST BE APPROVED BY THE TOWN OF MILFORD.
8. THE PROPOSED BUILDINGS SHALL BE FULLY SPRINKLER PROTECTED.
9. FINAL LAYOUT OF UNDERGROUND UTILITIES TO BE APPROVED BY LOCAL PROVIDER PRIOR TO CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR SIZING WATER SERVICES AND/OR VERIFYING EXISTING WATER SERVICES ARE ADEQUATE FOR THE PROPOSED BUILDING.
11. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR THE EXACT LOCATION, LAYOUT, CONDUIT SIZE AND CIRCUITS ASSOCIATED WITH THE SITE LIGHTING, EMERGENCY GATE AND COMPACTOR.

LEGEND

GB-F	GRANITE BOUND FOUND
IPIN-F	IRON PIN FOUND
DH-F	DRILL HOLE FOUND
	UTILITY POLE
	WATER VALVE
	SEWER MANHOLE
	ABUTTER LINE
	PROPERTY LINE
	WETLAND
	POST & RAIL FENCE
	BARBED WIRE FENCE
OHU	OVERHEAD UTILITIES
W	WATER LINE
	DRAINAGE LINE
	TREELINE
	RETAINING WALL
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	STONEWALL
	BUILDING SETBACK
	EASEMENT
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED WATER VALVE
	PROPOSED HYDRANT
	PROPOSED SEWER MANHOLE
	PROPOSED DRAINAGE MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED POST & RAIL FENCE
	PROPOSED GUARDRAIL
UGU	PROPOSED UNDERGROUND UTILITIES
W	PROPOSED WATER LINE
S	PROPOSED SEWER LINE
FM	PROPOSED FORCE MAIN
PS	PROPOSED PRESSURE SEWER
	PROPOSED DRAINAGE LINE
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED RETAINING WALL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

UTILITY PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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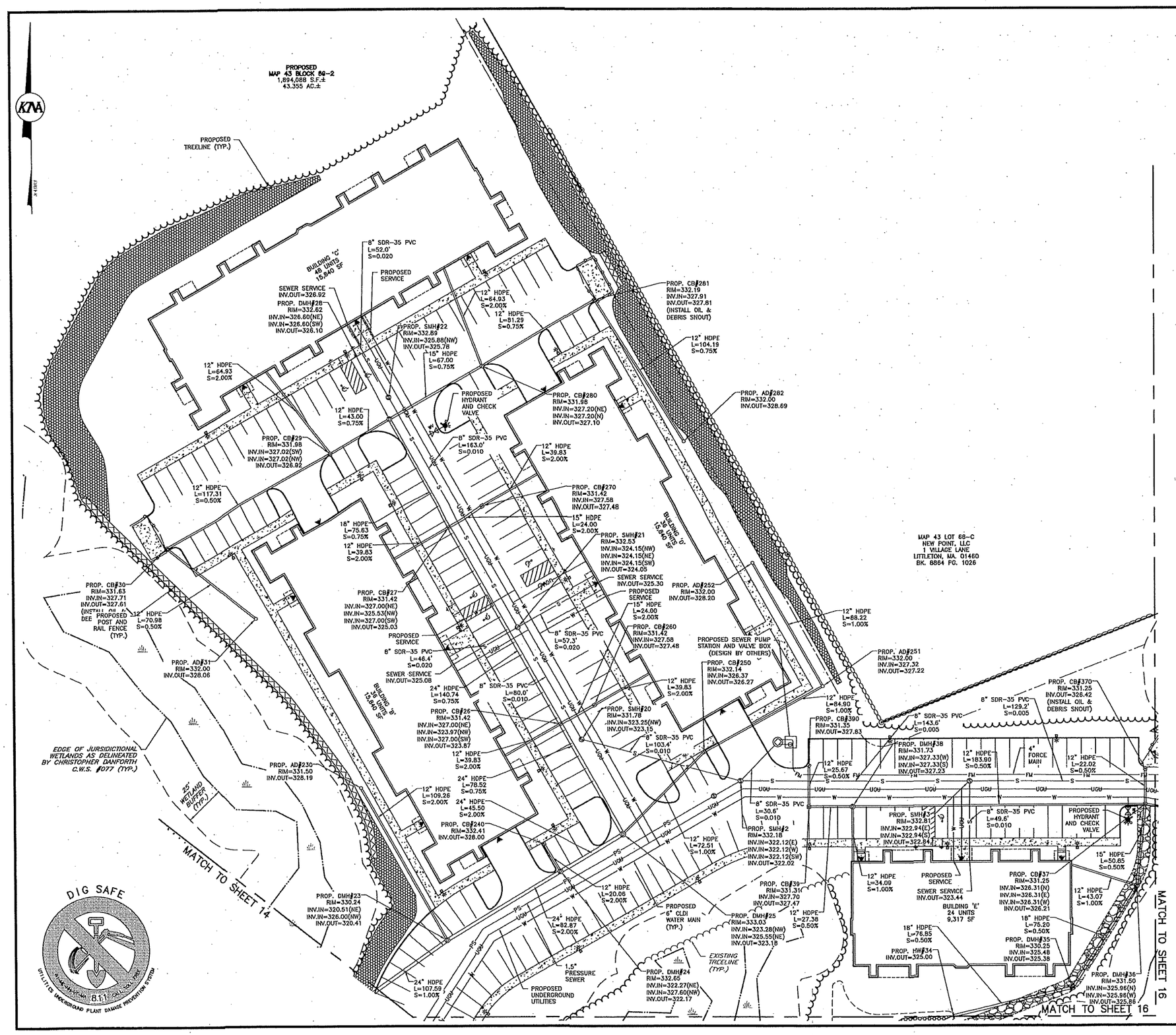

LEGEND

GB-F	GRANITE BOUND FOUND
IPIN-F	IRON PIN FOUND
DH-F	DRILL HOLE FOUND
	UTILITY POLE
	WATER VALVE
	SEWER MANHOLE
	ABUTTER LINE
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	WETLAND
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	EDGE OF PAVEMENT
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	PROPOSED DRAINAGE MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED POST & RAIL FENCE
	PROPOSED GUARDRAIL
UGU	PROPOSED UNDERGROUND UTILITIES
W	PROPOSED WATER LINE
S	PROPOSED SEWER LINE
FM	PROPOSED FORCE MAIN
PS	PROPOSED PRESSURE SEWER
	PROPOSED DRAINAGE LINE
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED RETAINING WALL

SEE SHEET 14 FOR NOTES

GRAPHIC SCALE

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UTILITY PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
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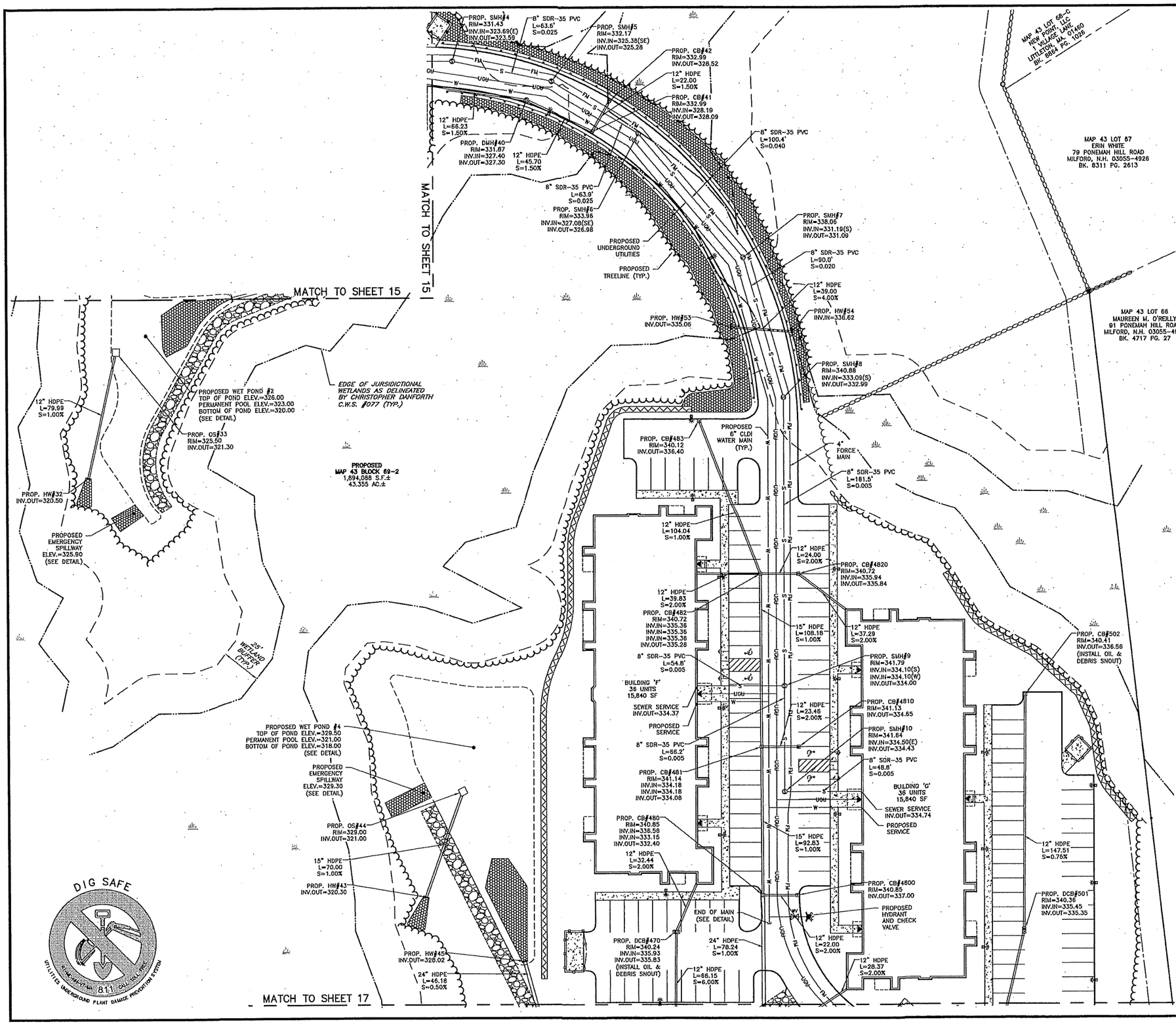

LEGEND

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DH-F	DRILL HOLE FOUND
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	PROPOSED SIGN
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	PROPOSED WATER VALVE
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SEE SHEET 14 FOR NOTES

GRAPHIC SCALE

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(IN FEET)
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UTILITY PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
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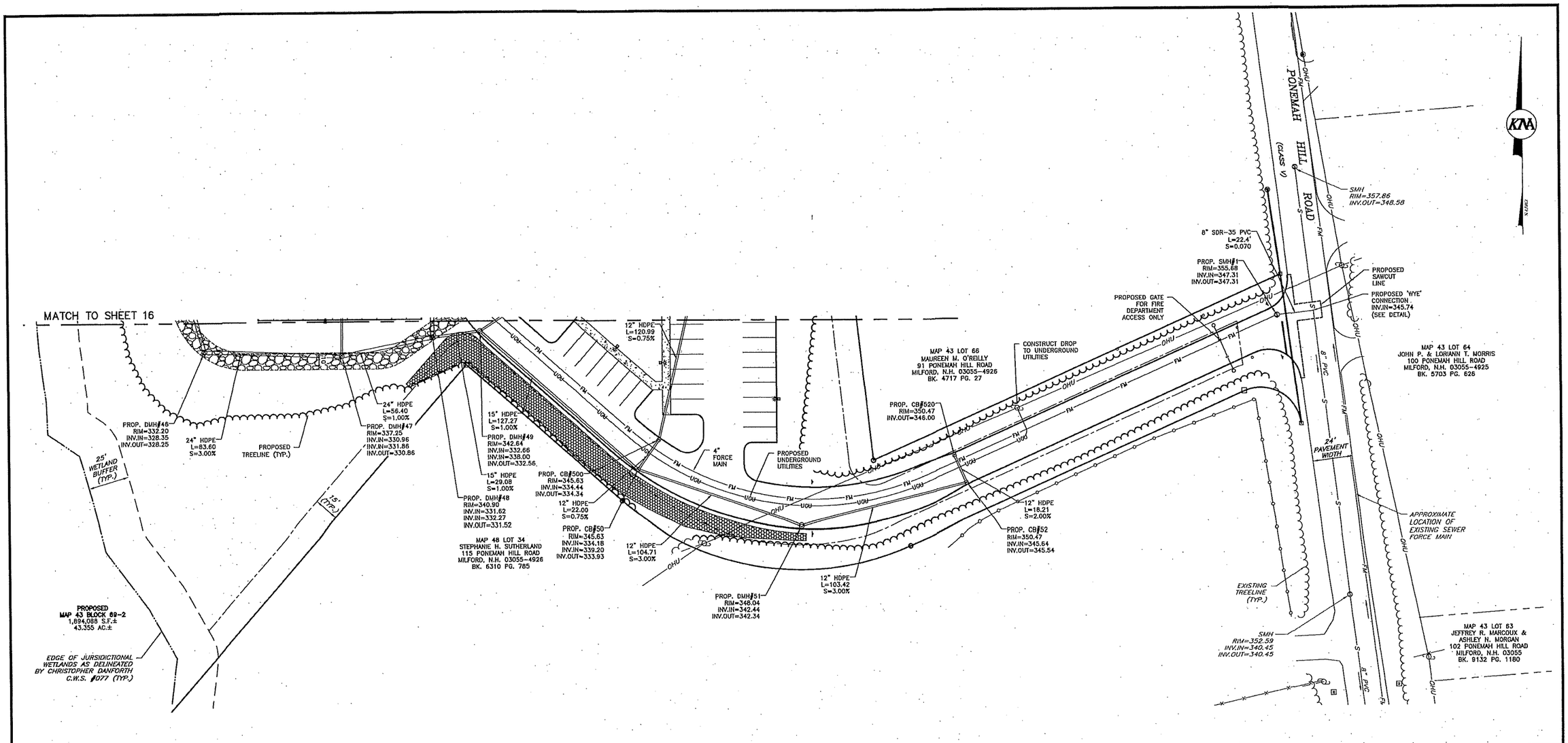

LEGEND

GB-F	GRANITE BOUND FOUND		PROPOSED SIGN
IPIN-F	IRON PIN FOUND		PROPOSED LIGHT
DH-F	DRILL HOLE FOUND		PROPOSED WATER VALVE
	UTILITY POLE		PROPOSED HYDRANT
	WATER VALVE		PROPOSED SEWER MANHOLE
	SEWER MANHOLE		PROPOSED DRAINAGE MANHOLE
	ABUTTER LINE		PROPOSED CATCH BASIN
	PROPERTY LINE		PROPOSED POST & RAIL FENCE
	WETLAND		PROPOSED GUARDRAIL
	POST & RAIL FENCE	UGU	PROPOSED UNDERGROUND UTILITIES
	BARBED WIRE FENCE	W	PROPOSED WATER LINE
OHU	OVERHEAD UTILITIES	S	PROPOSED SEWER LINE
W	WATER LINE	FM	PROPOSED FORCE MAIN
	DRAINAGE LINE	PS	PROPOSED PRESSURE SEWER
	TREELINE		PROPOSED DRAINAGE LINE
	RETAINING WALL		PROPOSED TREELINE
	EDGE OF PAVEMENT		PROPOSED EDGE OF PAVEMENT
	EDGE OF GRAVEL		PROPOSED VERTICAL GRANITE CURB
	STONEWALL		PROPOSED RETAINING WALL
	BUILDING SETBACK		
	EASEMENT		

SEE SHEET 14 FOR NOTES

DIG SAFE
811
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE

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UTILITY PLAN
THE Q AT MILFORD

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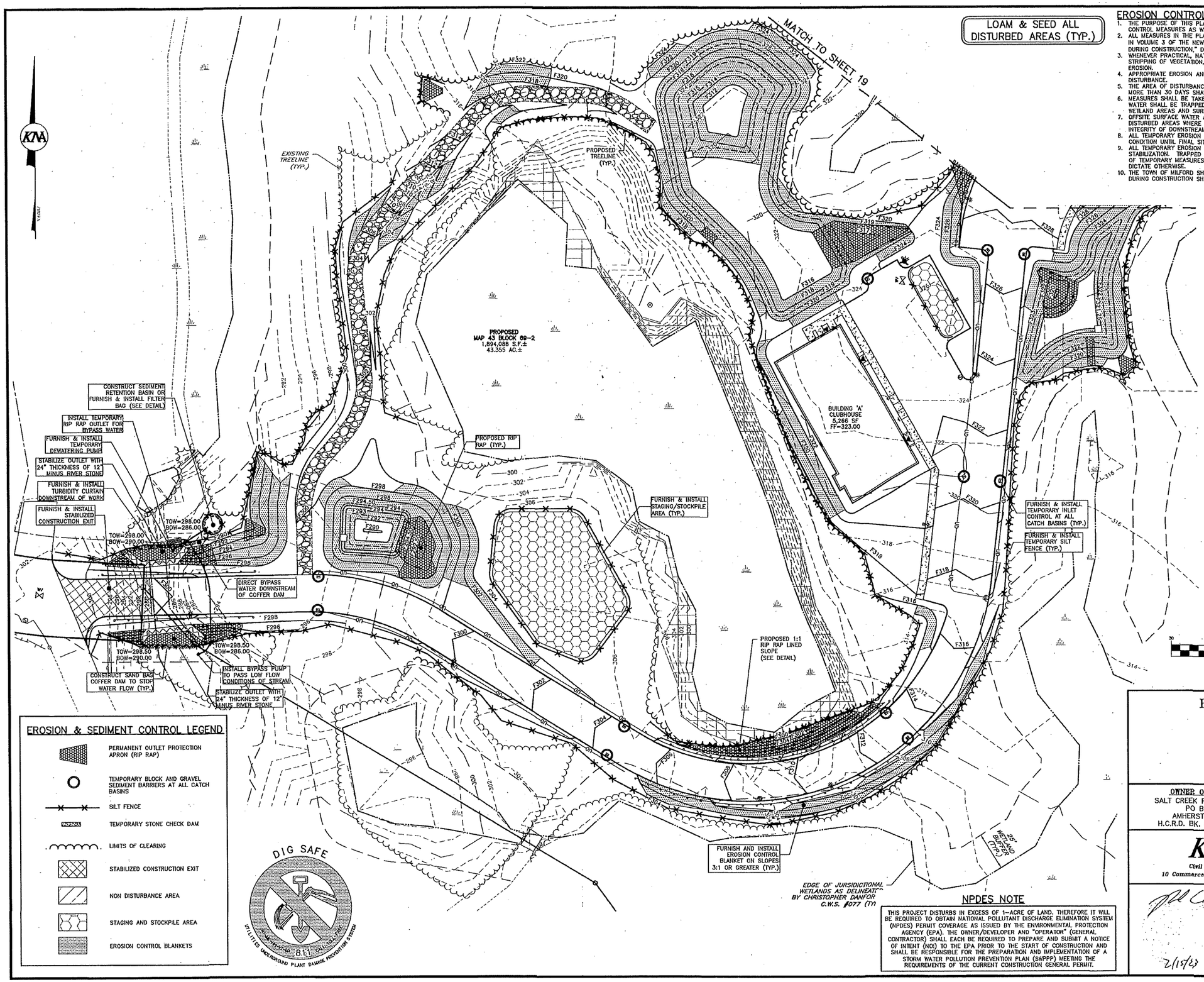

EROSION CONTROL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE REQUIRED ONSITE TEMPORARY CONSTRUCTION EROSION CONTROL MEASURES AS WELL AS THE PERMANENT EROSION CONTROL MEASURES.
2. ALL MEASURES IN THE PLAN SHALL MEET AS A MINIMUM THE BEST MANAGEMENT PRACTICES SET FORTH IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL TITLED "EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION," DATED DECEMBER 2010, AS AMENDED FROM TIME TO TIME.
3. WHENEVER PRACTICAL, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED OR SUPPLEMENTED. THE STRIPPING OF VEGETATION, WHEN NECESSARY, SHALL BE DONE IN A MANNER THAT MINIMIZES SOIL EROSION.
4. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
5. THE AREA OF DISTURBANCE SHALL BE KEPT TO A MINIMUM. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED.
6. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA USING APPROVED MEASURES. WETLAND AREAS AND SURFACE WATERS SHALL BE PROTECTED FROM SEDIMENT.
7. OFFSITE SURFACE WATER AND RUNOFF FROM UNDISTURBED AREAS SHALL BE DIVERTED AWAY FROM DISTURBED AREAS WHERE FEASIBLE OR CARRIED NON-EROSIVELY THROUGH THE PROJECT AREA. INTEGRITY OF DOWNSTREAM DRAINAGE SYSTEMS SHALL BE MAINTAINED.
8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN FUNCTIONING CONDITION UNTIL FINAL SITE STABILIZATION IS ACCOMPLISHED.
9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS UNLESS CONDITIONS DICTATE OTHERWISE.
10. THE TOWN OF MILFORD SHALL RESERVE THE RIGHT TO REQUIRE FURTHER EROSION CONTROL PRACTICES DURING CONSTRUCTION SHOULD THEY FIND IT NECESSARY.

LEGEND

- GB-F — GRANITE BOUND FOUND
- NHHB-F — N.H. HIGHWAY BOUND FOUND
- IPP-F — IRON PIPE FOUND
- IR-F — IRON ROD FOUND
- DH-F — DRILL HOLE FOUND
- DH-S — DRILL HOLE SET
- TREE WITH BARBED WIRE
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- DRAINAGE MANHOLE
- CATCH BASIN
- CONIFEROUS TREE
- DECIDUOUS TREE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- WETLAND BUFFER
- POST & RAIL FENCE
- R.O.W. FENCE
- OHU — OVERHEAD UTILITIES
- DRAINAGE LINE
- EDGE OF PAVEMENT
- 10' CONTOUR
- 2' CONTOUR
- STONEWALL
- SETBACK
- PROPOSED PROPERTY LINE
- PROPOSED DRAINAGE LINE
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SLOPED GRANITE CURB
- PROPOSED 2' CONTOUR
- PROPOSED RETAINING WALL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

EROSION & SEDIMENT CONTROL LEGEND

- PERMANENT OUTLET PROTECTION APRON (RIP RAP)
- TEMPORARY BLOCK AND GRAVEL SEDIMENT BARRIERS AT ALL CATCH BASINS
- SILT FENCE
- TEMPORARY STONE CHECK DAM
- LIMITS OF CLEARING
- STABILIZED CONSTRUCTION EXIT
- NON DISTURBANCE AREA
- STAGING AND STOCKPILE AREA
- EROSION CONTROL BLANKETS

NPDES NOTE

THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.

EROSION CONTROL PLAN
THE Q AT MILFORD

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0 PONEMAH HILL ROAD
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HILLSBOROUGH COUNTY

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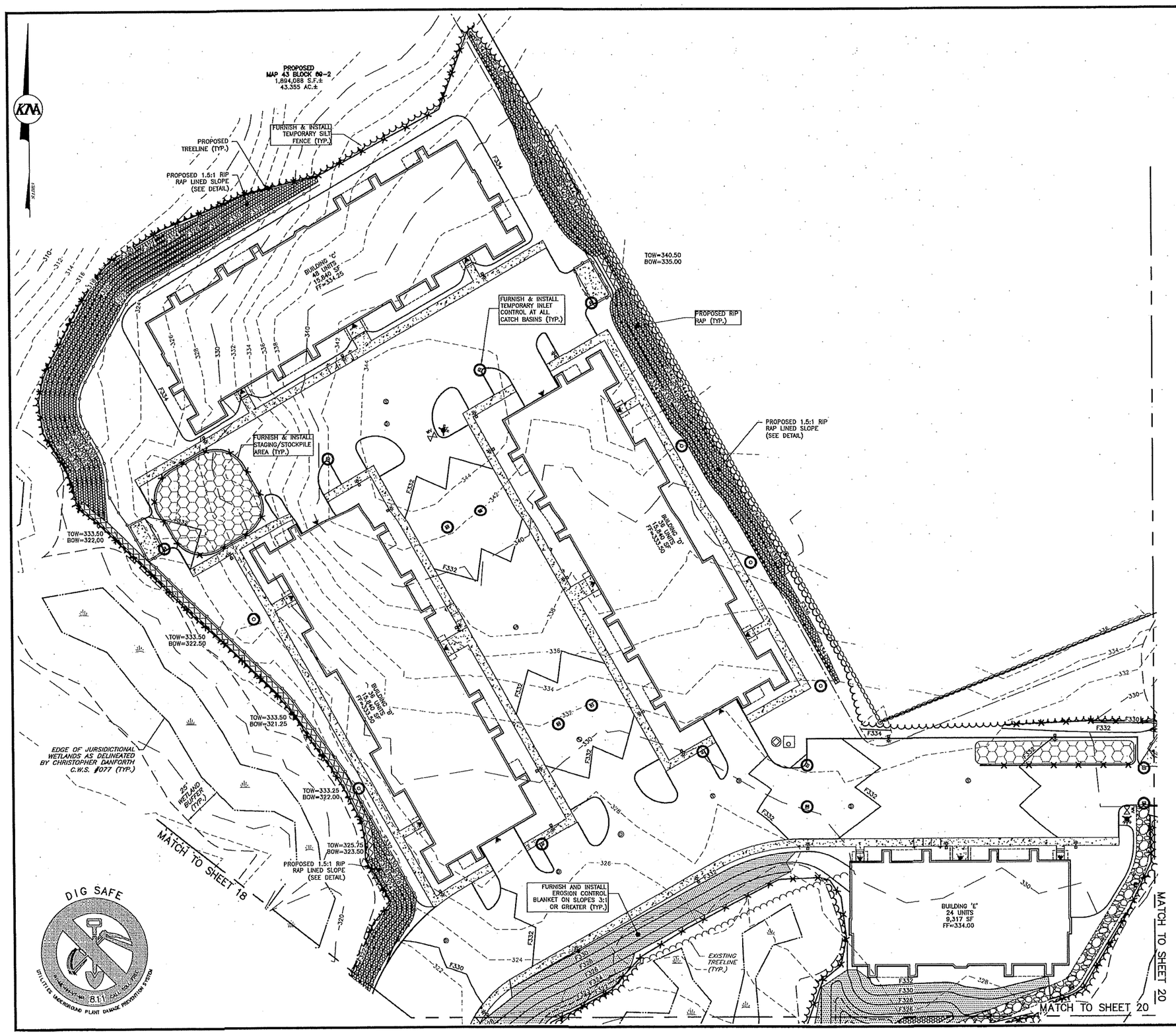

LEGEND

GB-F	GRANITE BOUND FOUND
NHHB-F	N.H. HIGHWAY BOUND FOUND
IPP-F	IRON PIPE FOUND
IR-F	IRON ROD FOUND
DH-F	DRILL HOLE FOUND
DH-S	DRILL HOLE SET
	TREE WITH BARBED WIRE
	UTILITY POLE
	WATER VALVE
	SEWER MANHOLE
	DRAINAGE MANHOLE
	CATCH BASIN
	CONIFEROUS TREE
	DECIDUOUS TREE
	ABUTTER LINE
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	WETLAND
	WETLAND BUFFER
	POST & RAIL FENCE
	R.O.W. FENCE
OHU	OVERHEAD UTILITIES
	DRAINAGE LINE
	EDGE OF PAVEMENT
	10' CONTOUR
	2' CONTOUR
	STONEWALL
	SETBACK
	PROPOSED PROPERTY LINE
	PROPOSED DRAINAGE LINE
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED SLOPED GRANITE CURB
	PROPOSED 2' CONTOUR
	PROPOSED RETAINING WALL

SEE SHEET 18 FOR NOTES & EROSION CONTROL LEGEND

NPDES NOTE

THIS PROJECT DISTURBS IN EXCESS OF 1-ACRE OF LAND. THEREFORE IT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL EACH BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT CONSTRUCTION GENERAL PERMIT.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

EROSION CONTROL PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

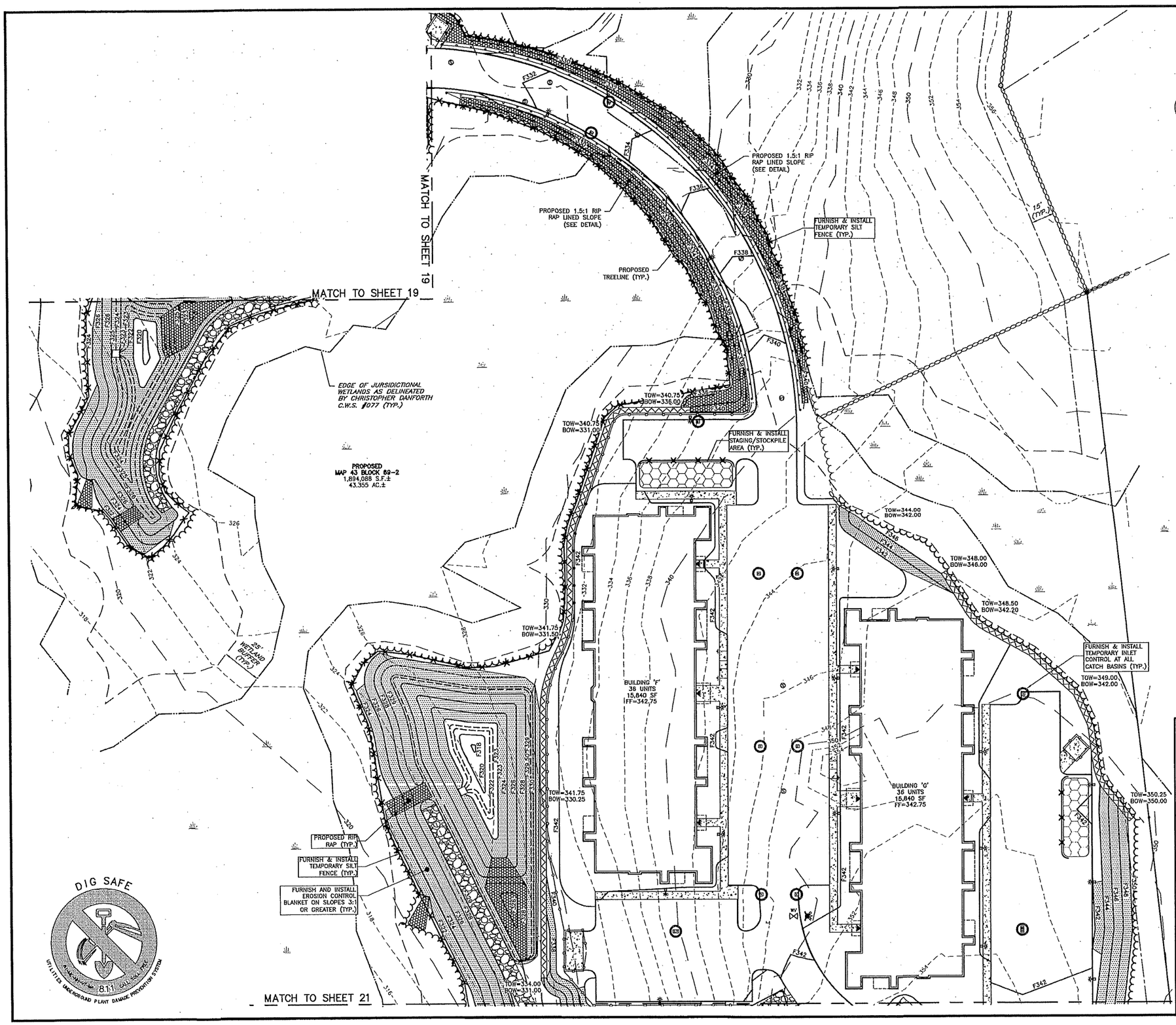
KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY

2/15/23

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 19 OF 45



LEGEND

CB-F	GRANITE BOUND FOUND
NHHB-F	N.H. HIGHWAY BOUND FOUND
IPP-F	IRON PIPE FOUND
IR-F	IRON ROD FOUND
DH-F	DRILL HOLE FOUND
DH-S	DRILL HOLE SET
	TREE WITH BARBED WIRE
	UTILITY POLE
	WATER VALVE
	SEWER MANHOLE
	DRAINAGE MANHOLE
	CATCH BASIN
	CONIFEROUS TREE
	DECIDUOUS TREE
	ABUTTER LINE
	PROPERTY LINE
	WETLAND
	WETLAND BUFFER
	POST & RAIL FENCE
	R.O.W. FENCE
OHU	OVERHEAD UTILITIES
	DRAINAGE LINE
	EDGE OF PAVEMENT
	10' CONTOUR
	2' CONTOUR
	STONEWALL
	SETBACK
	PROPOSED PROPERTY LINE
	PROPOSED DRAINAGE LINE
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED SLOPED GRANITE CURB
	PROPOSED 2' CONTOUR
	PROPOSED RETAINING WALL

SEE SHEET 18 FOR NOTES & EROSION CONTROL LEGEND

NPDES NOTE

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GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

EROSION CONTROL PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

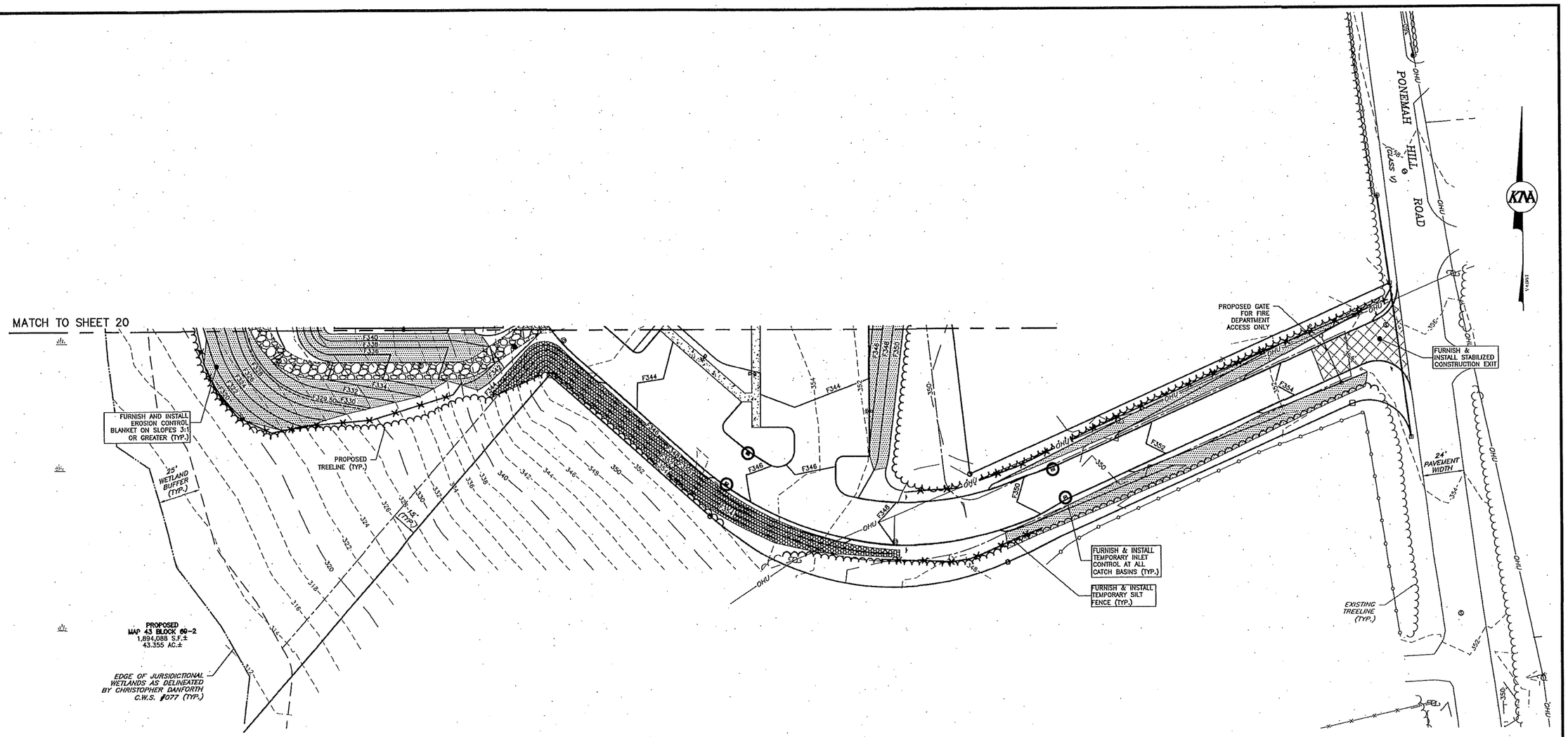
KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 20 OF 45



SEE SHEET 18 FOR NOTES & EROSION CONTROL LEGEND

LEGEND

GB-F	GRANITE BOUND FOUND		WETLAND BUFFER
NHHB-F	N.H. HIGHWAY BOUND FOUND		POST & RAIL FENCE
IPP-F	IRON PIPE FOUND		R.O.W. FENCE
IR-F	IRON ROD FOUND	OHU	OVERHEAD UTILITIES
DH-F	DRILL HOLE FOUND		DRAINAGE LINE
DH-S	DRILL HOLE SET		EDGE OF PAVEMENT
	TREE WITH BARBED WIRE		10' CONTOUR
	UTILITY POLE		2' CONTOUR
	WATER VALVE		STONEWALL
	SEWER MANHOLE		SETBACK
	DRAINAGE MANHOLE		PROPOSED PROPERTY LINE
	CATCH BASIN		PROPOSED DRAINAGE LINE
	CONIFEROUS TREE		PROPOSED TREELINE
	DECIDUOUS TREE		PROPOSED EDGE OF PAVEMENT
	ABUTTER LINE		PROPOSED SLOPED GRANITE CURB
	PROPERTY LINE		PROPOSED 2' CONTOUR
	WETLAND		PROPOSED RETAINING WALL

DIG SAFE
811
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NPDES NOTE

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EROSION CONTROL PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
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NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
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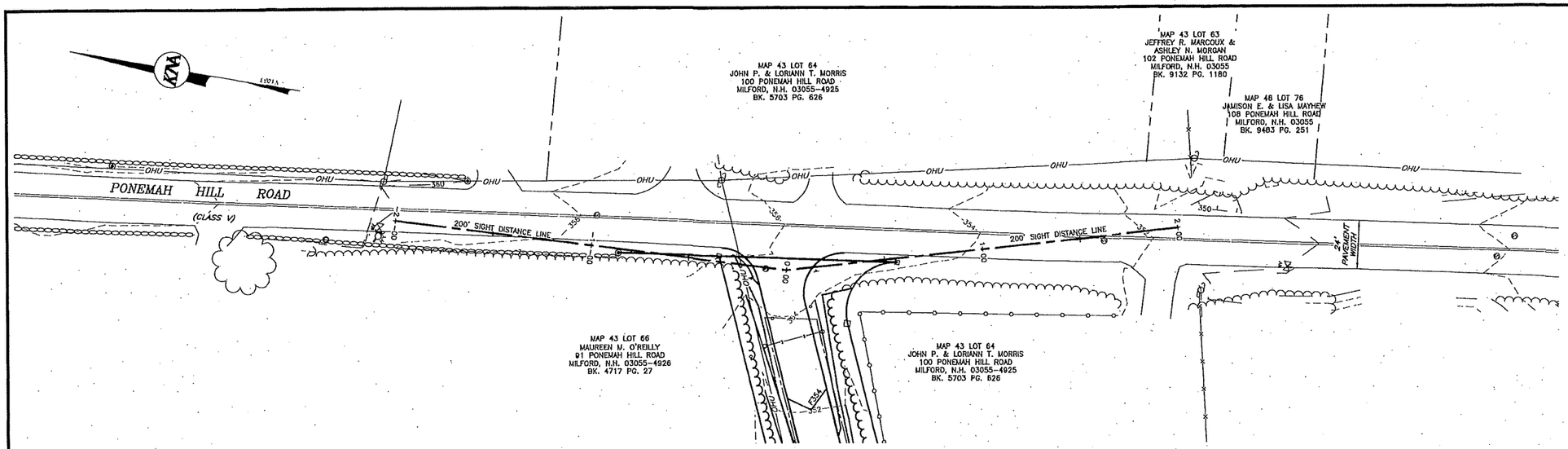
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

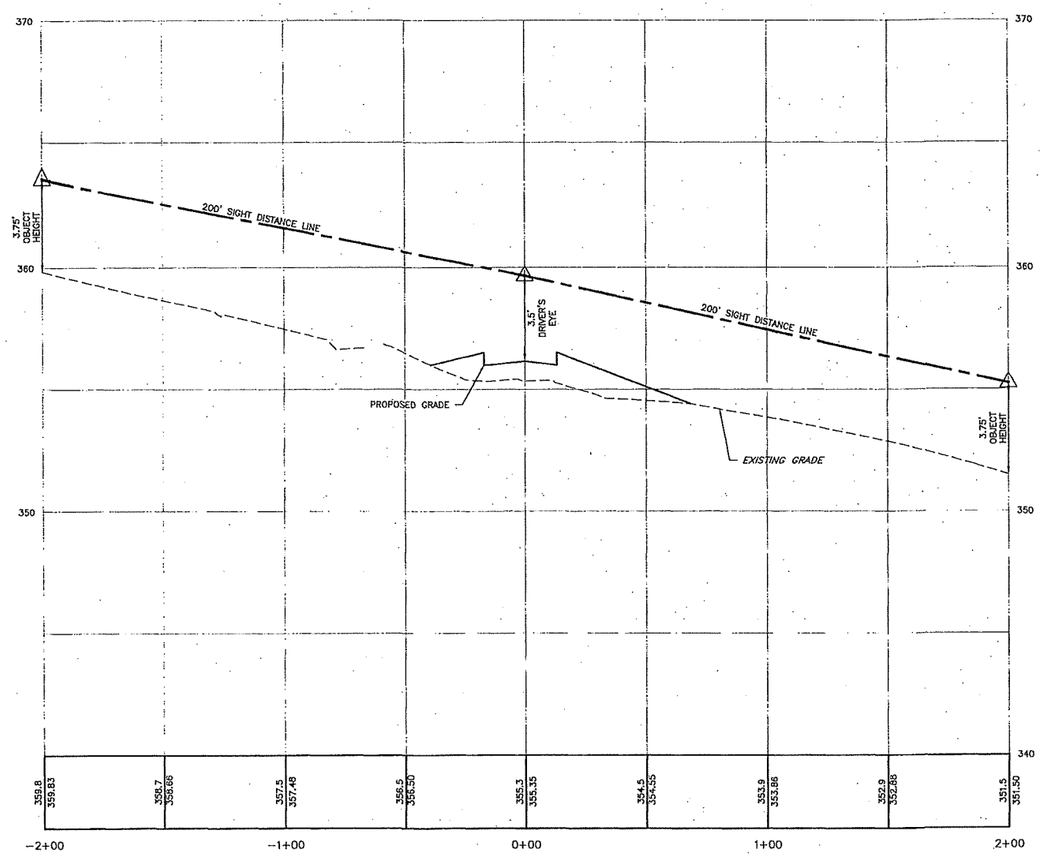
REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 21 OF 45



SIGHT DISTANCE PLAN
SCALE: 1" = 30'



SIGHT DISTANCE PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SIGHT DISTANCE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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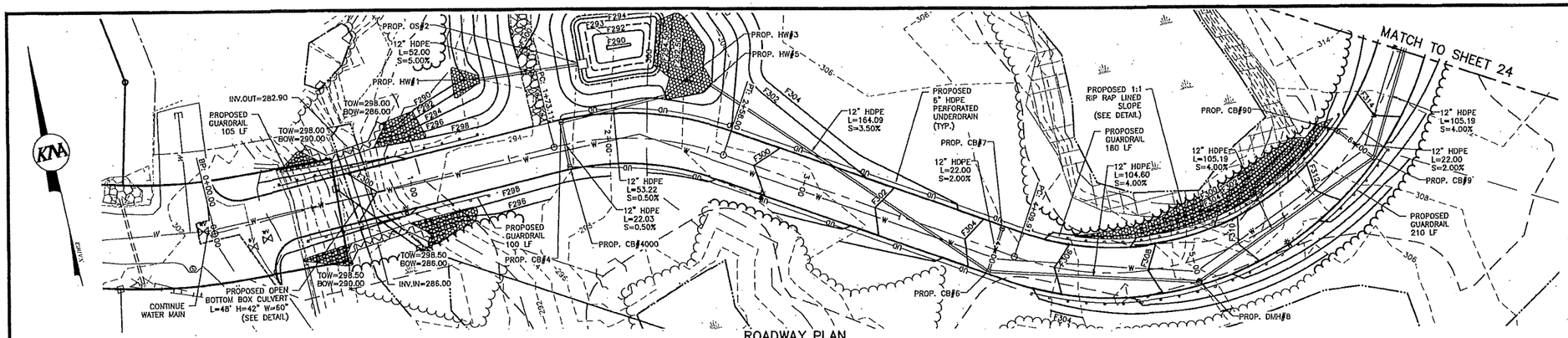
2/15/23

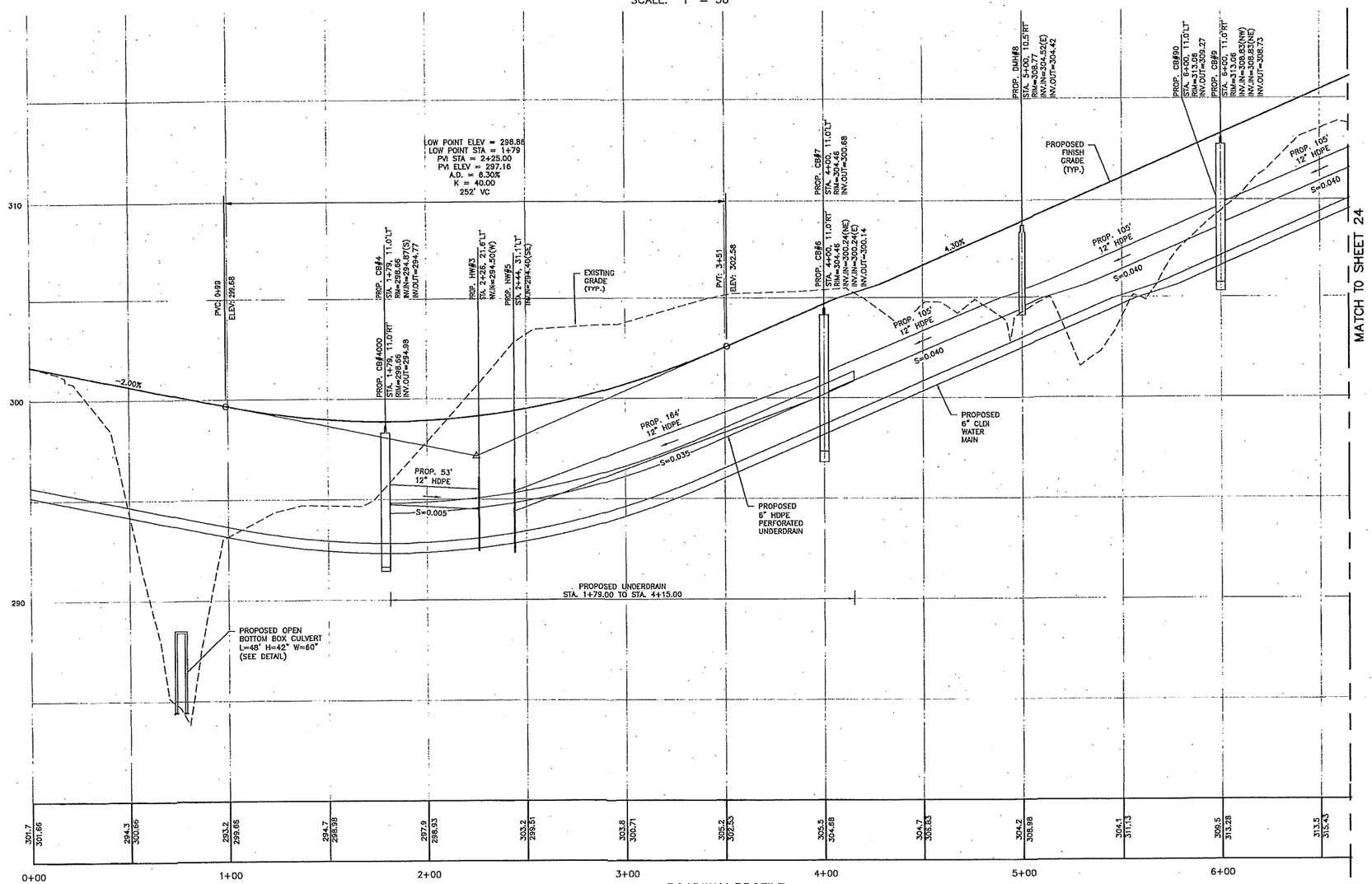
REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 22 OF 45



ROADWAY PLAN
SCALE: 1" = 30'



ROADWAY PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

LEGEND

- CB-F — GRANITE BOUND FOUND
- IPIN-F — IRON PIN FOUND
- DH-F — DRILL HOLE FOUND
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- POST & RAIL FENCE
- BARBED WIRE FENCE
- OHU — OVERHEAD UTILITIES
- W — WATER LINE
- DRAINAGE LINE
- 10' CONTOUR
- 2' CONTOUR
- SCS SOIL LINE
- SSS SOIL LINE
- TREELINE
- RETAINING WALL
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED SIGN
- PROPOSED LIGHT
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED SEWER MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED POST & RAIL FENCE
- PROPOSED GUARDRAIL
- UGU — PROPOSED UNDERGROUND UTILITIES
- W — PROPOSED WATER LINE
- S — PROPOSED SEWER LINE
- FM — PROPOSED FORCE MAIN
- PS — PROPOSED PRESSURE SEWER
- PROPOSED DRAINAGE LINE
- PROPOSED 2' CONTOUR
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED VERTICAL GRANITE CURB
- PROPOSED RETAINING WALL

DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
888-DIG-SAFE (344-7233)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ROADWAY PLAN & PROFILE
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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2/15/23

REVISIONS

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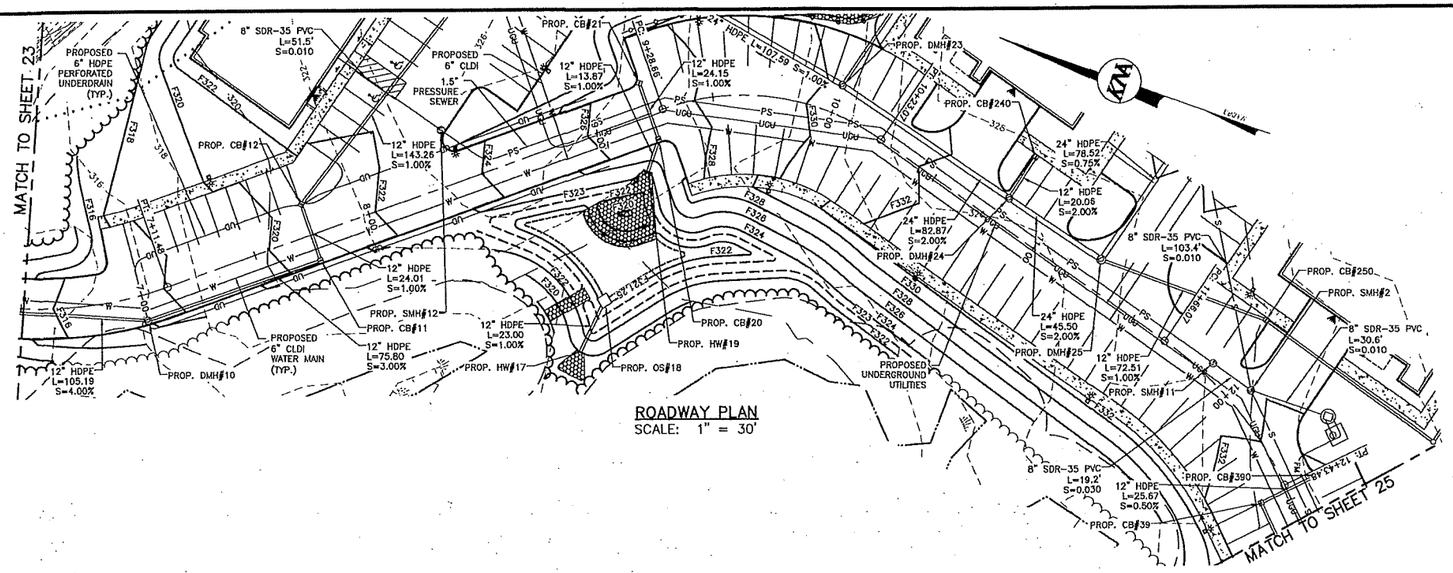
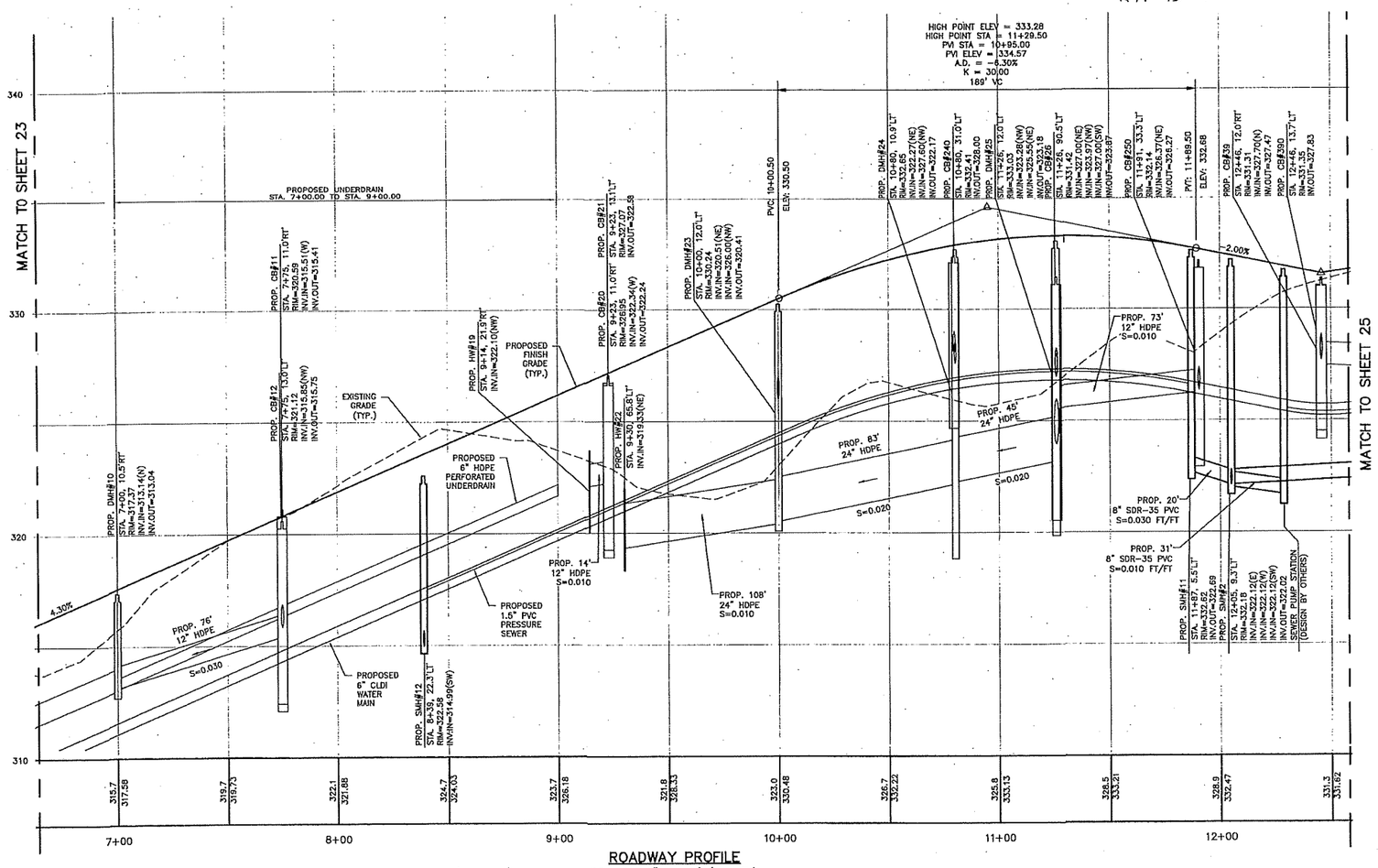
DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 23 OF 45



ROADWAY PLAN
SCALE: 1" = 30'



ROADWAY PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

LEGEND

- GB-F — GRANITE BOUND FOUND
- IPIN-F — IRON PIN FOUND
- DH-F — DRILL HOLE FOUND
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- POST & RAIL FENCE
- BARBED WIRE FENCE
- OHU — OVERHEAD UTILITIES
- W — WATER LINE
- DRAINAGE LINE
- 10' CONTOUR
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- SCS SOIL LINE
- SSS SOIL LINE
- TREELINE
- RETAINING WALL
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED SIGN
- PROPOSED LIGHT
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- W — PROPOSED WATER LINE
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- FM — PROPOSED FORCE MAIN
- PS — PROPOSED PRESSURE SEWER
- PROPOSED DRAINAGE LINE
- PROPOSED 2' CONTOUR
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED VERTICAL GRANITE CURB
- PROPOSED RETAINING WALL

DIG SAFE
CALL 811 TWO WORKING DAYS PRIOR TO DIGGING
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ROADWAY PLAN & PROFILE
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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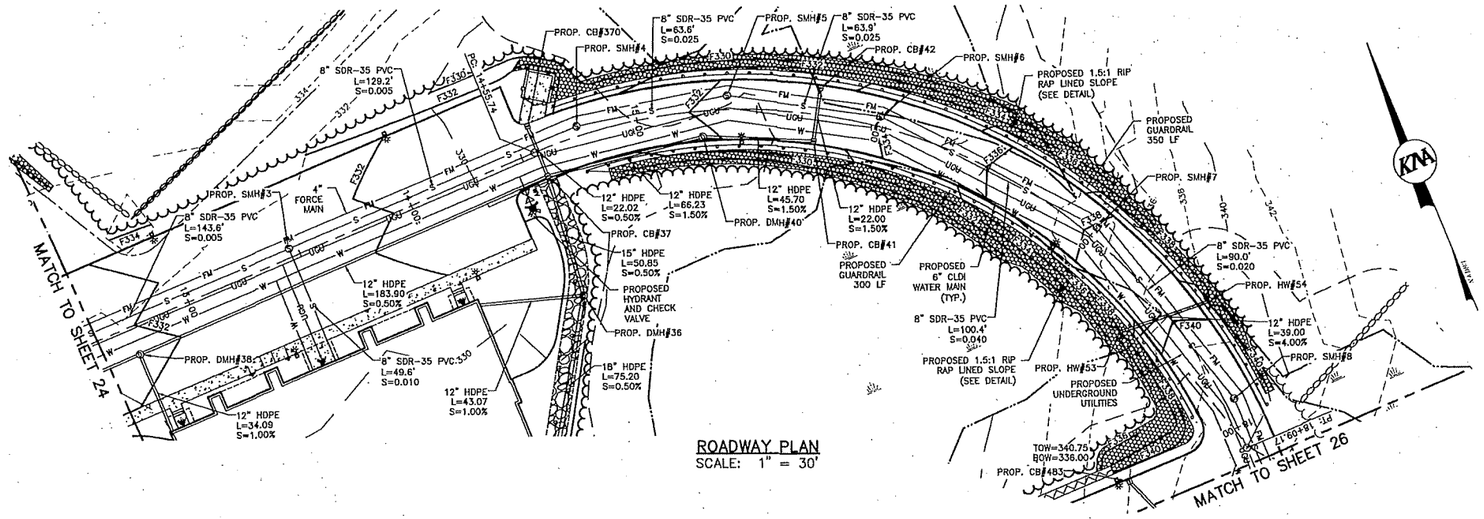
2/16/23

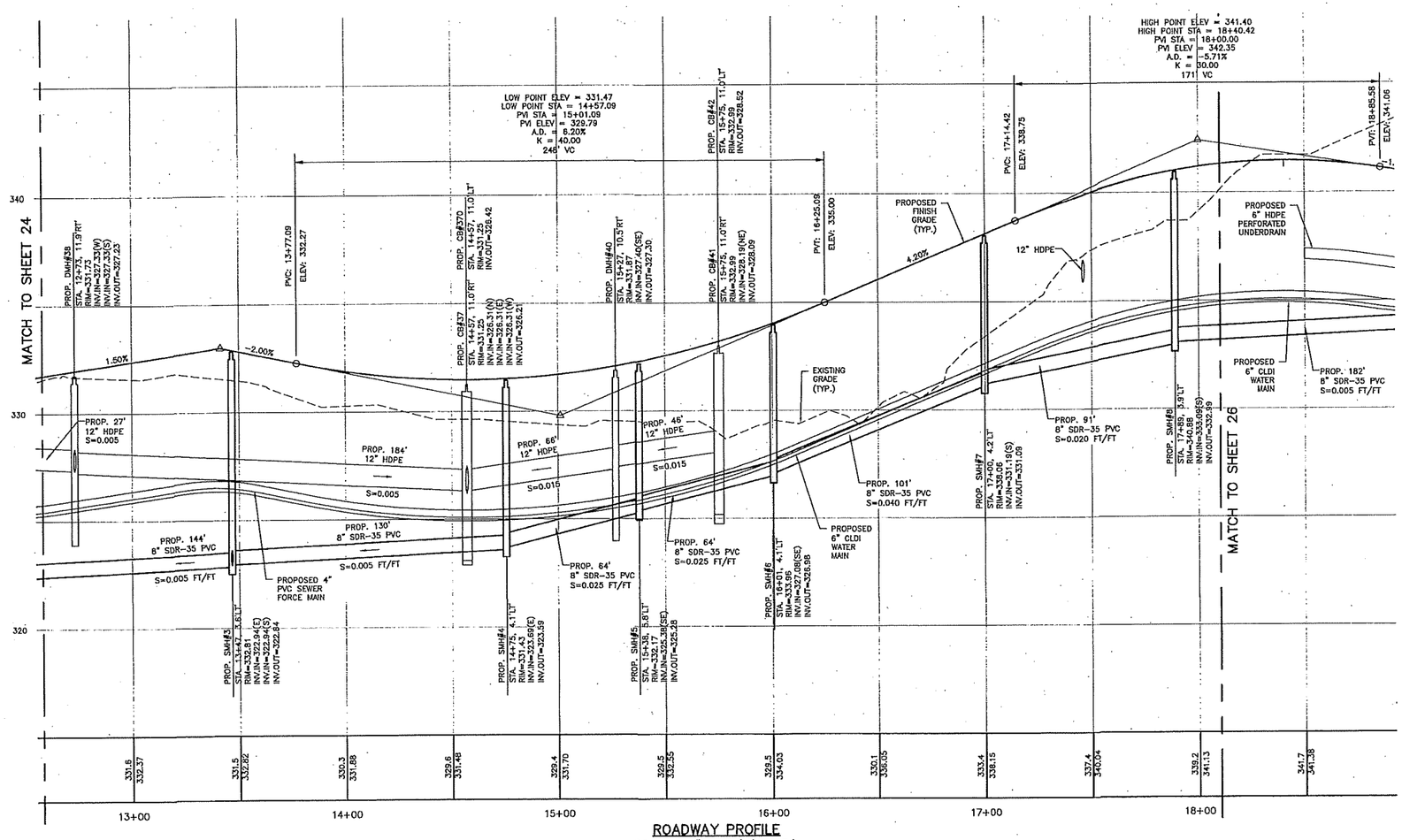
REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 24 OF 45



ROADWAY PLAN
SCALE: 1" = 30'



ROADWAY PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

LEGEND

GB-F	GRANITE BOUND FOUND
IPIN-F	IRON PIN FOUND
DH-F	DRILL HOLE FOUND
	UTILITY POLE
	WATER VALVE
	SEWER MANHOLE
	ABUTTER LINE
	PROPERTY LINE
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	SCS SOIL LINE
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	PROPOSED WATER VALVE
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	PROPOSED CATCH BASIN
	PROPOSED POST & RAIL FENCE
	PROPOSED GUARDRAIL
UGU	PROPOSED UNDERGROUND UTILITIES
W	PROPOSED WATER LINE
S	PROPOSED SEWER LINE
FM	PROPOSED FORCE MAIN
PS	PROPOSED PRESSURE SEWER
	PROPOSED DRAINAGE LINE
	PROPOSED 2' CONTOUR
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED RETAINING WALL

DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
811

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ROADWAY PLAN & PROFILE
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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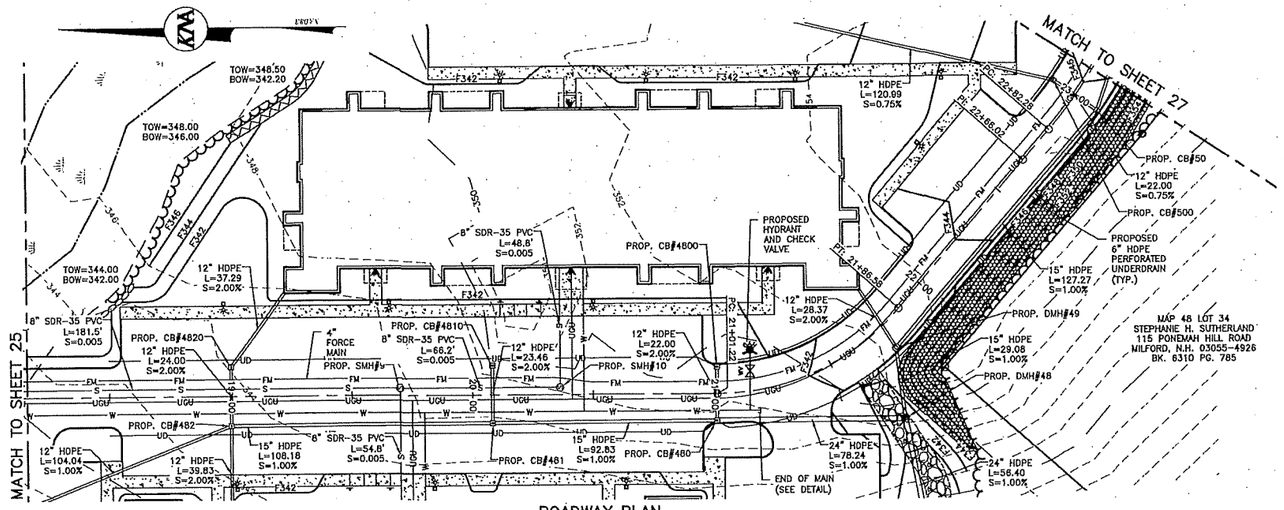
2/15/23

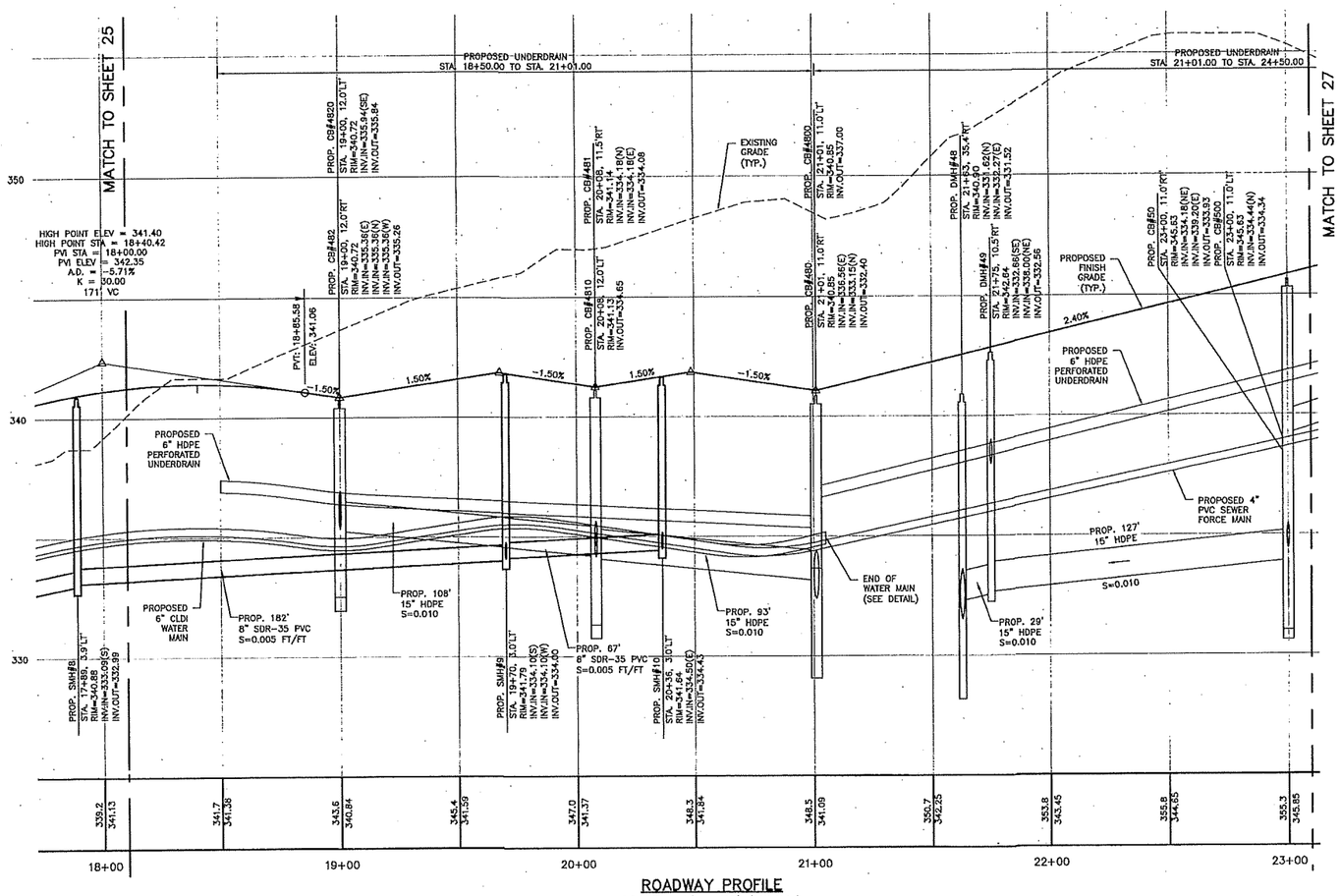
REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 25 OF 45



ROADWAY PLAN
SCALE: 1" = 30'



ROADWAY PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

LEGEND

GB-F	GRANITE BOUND FOUND
IPIN-F	IRON PIN FOUND
DH-F	DRILL HOLE FOUND
	UTILITY POLE
	WATER VALVE
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	EDGE OF GRAVEL
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	PROPOSED CATCH BASIN
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PS	PROPOSED PRESSURE SEWER
	PROPOSED DRAINAGE LINE
	PROPOSED 2' CONTOUR
	PROPOSED TREELINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED RETAINING WALL

DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
811

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ROADWAY PLAN & PROFILE
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
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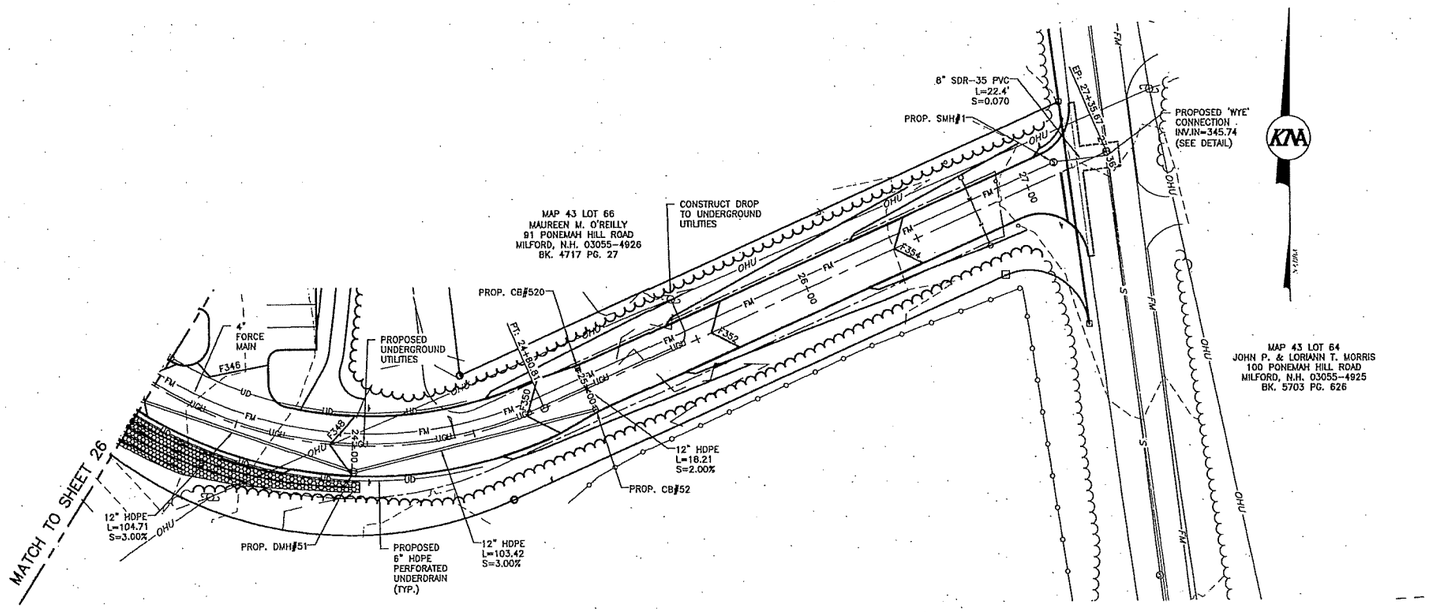
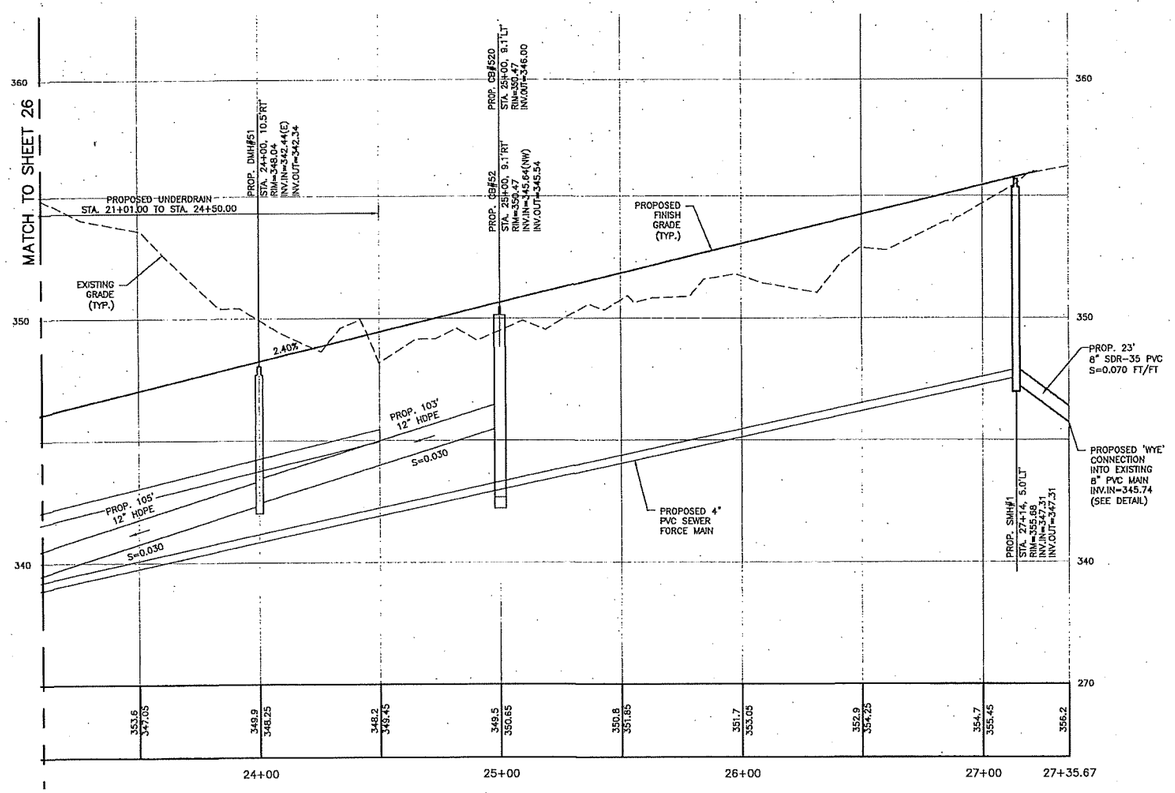
REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 26 OF 45



ROADWAY PLAN
SCALE: 1" = 30'



ROADWAY PROFILE
SCALE: 1" = 30' (HORIZ.)
1" = 3' (VERT.)

LEGEND

- GB-F — GRANITE BOUND FOUND
- IPIN-F — IRON PIN FOUND
- DH-F — DRILL HOLE FOUND
- UTILITY POLE
- WATER VALVE
- SEWER MANHOLE
- ABUTTER LINE
- PROPERTY LINE
- WETLAND
- POST & RAIL FENCE
- BARBED WIRE FENCE
- OVERHEAD UTILITIES
- WATER LINE
- DRAINAGE LINE
- 10' CONTOUR
- 2' CONTOUR
- SCS SOIL LINE
- SSS SOIL LINE
- TREELINE
- RETAINING WALL
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- STONEWALL
- BUILDING SETBACK
- EASEMENT
- PROPOSED SIGN
- PROPOSED LIGHT
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED SEWER MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED POST & RAIL FENCE
- PROPOSED GUARDRAIL
- PROPOSED UNDERGROUND UTILITIES
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED FORCE MAIN
- PROPOSED PRESSURE SEWER
- PROPOSED DRAINAGE LINE
- PROPOSED 2' CONTOUR
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED VERTICAL GRANITE CURB
- PROPOSED RETAINING WALL

DIG SAFE
811
CALL 811 FOR UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ROADWAY PLAN & PROFILE
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering · Land Surveying · Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 27 OF 45

SEED AREA WITH NEW ENGLAND WETMIX SEED MIX

MATCH TO SHEET 29

EXISTING TREELINE (TYP.)

PROPOSED TREELINE (TYP.)

SEED AREA WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

SEED AREA WITH NEW ENGLAND WETMIX SEED MIX

INSTALL 10 EACH OF RO, MP, VC, & AV (PLANTED ON SIDES OF BASIN (5' ON CENTER)

PROPOSED
MAP 43 BLOCK 69-2
1,694,088 S.F.±
43.355 AC.±

(2) AR

(7) TC

(3) PK

(5) HM

(3) AL

(3) AL

(6) HR

(5) HM

(6) HR

(3) AL

BUILDING 'A'
CLUBHOUSE
5,266 SF

(1) HV

(1) IM

(3) AL

(1) PK

(5) HQ

(5) SM

(1) IM

(1) SW

(1) PK

(1) PK

SEED AREA WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

SEED AREA AROUND INFILTRATION POND WITH NEW ENGLAND WETMIX SEED MIX

INSTALL 10 EACH OF RO, MP, VC, & AV PLANTED ON SIDES OF BASIN (5' ON CENTER)

DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
811

LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 29 FOR NOTES AND LEGEND

INSTALL RAISED PLANT PAD WITH ENTRANCE SIGN -
(6) CE
(6) SM
(6) BB
(2) HP

MAP 43 LOT 69-1
HAMMOND ROAD, LLC
15 STONEYARD DRIVE
MILFORD, N.H. 03055
BK. 9145 PG. 1768

EDGE OF JURSIDICTIONAL WETLANDS AS DELINEATED BY CHRISTOPHER DANFORTH C.W.S. #077 (TYP.)

25' BUFFER (TYP.)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft

terrain
planning & design llc
311 kast hill road
hopkinton nh 03229
603. 746. 3512
terrainplanning.com

LANDSCAPE PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
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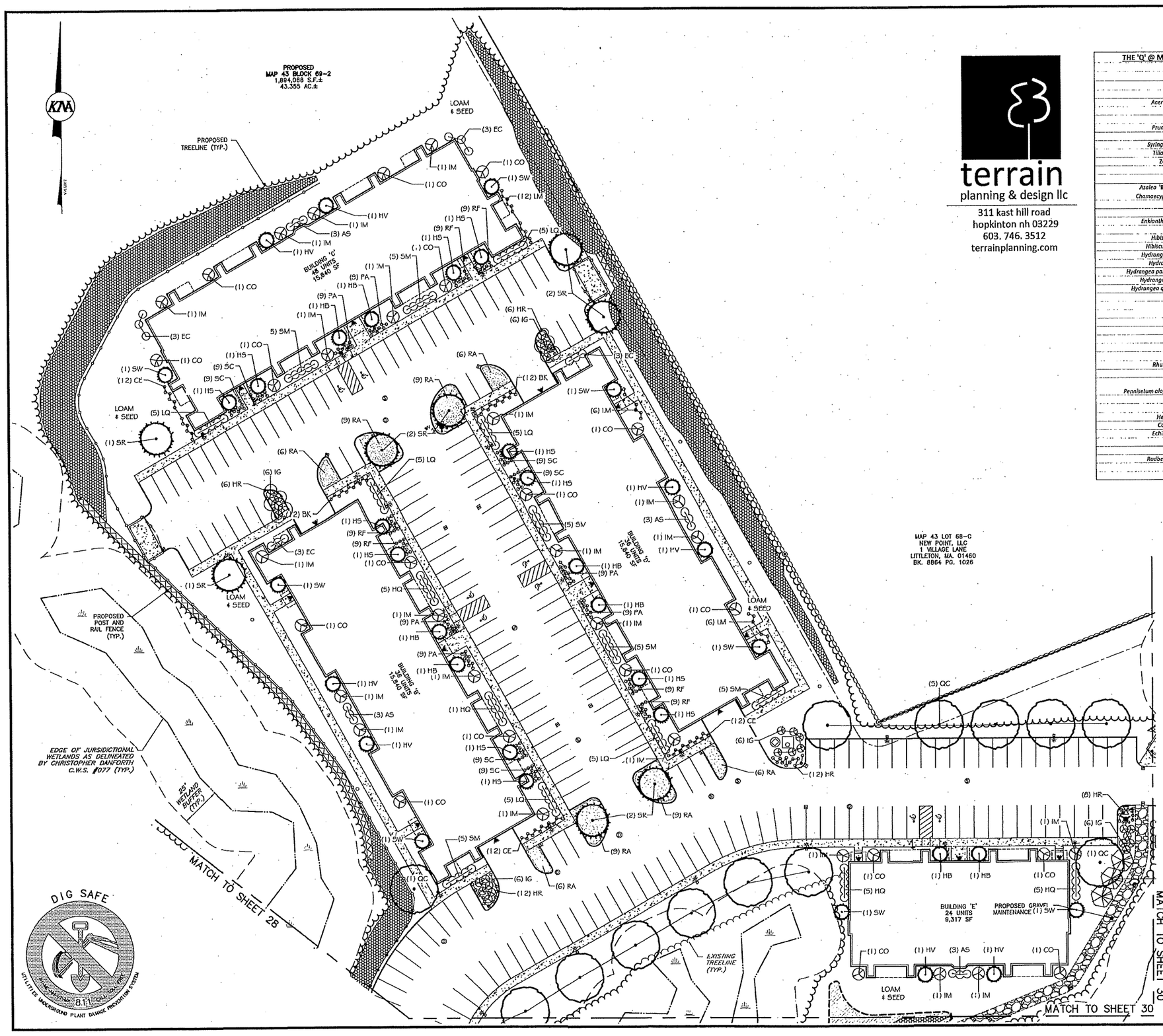

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603. 746. 3512
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THE 'Q' @ MILFORD - COMPREHENSIVE PLANTING SCHEDULE MILFORD, NEW HAMPSHIRE			
TREES	**SIZE**	**SYMBOL**	**QTY**
Abies concolor / White Fir	5-6' B&B	AC	5
Acer rubrum 'October Glory' / October Glory Red Maple	2.5-3" CAL.	AR	12
Picea glauca / White Spruce	5-6' B&B	PG	5
Pinus strobus / Eastern White Pine	5-6' B&B	PS	5
Prunus serrulata 'Kwanzan' / Kwanzan Flowering Cherry	2.5-3" CAL.	PK	6
Quercus coccinea / Scarlet Oak	2.5-3" CAL.	QC	7
Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Lilac Tree	2.5-3" CAL.	SR	8
Tilia cordata 'Greenspire' / Greenspire Littleleaf Linden	2.5-3" CAL.	TC	7
Zelkova serrata 'Green Vase' / Green Vase Zelkova	2.5-3" CAL.	ZS	12
SHRUBS			
Azalea 'Bloom A Thon Lavender' / Bloom A Thon Lavender Azalea	2-2.5' B&B	AL	8
Chamaecyparis obtusa 'Nana Gracilis' / Compact Hinoki Falsecypress	6-7' B&B	CO	30
Cornus sericea / Red-Osier Dogwood	#1	RO	40
Corylopsis spicata / Spike Witchhazel	6-7' B&B	SW	13
Enkianthus campanulatus 'Albiflorus' / White Flower Enkianthus	2-2.5' B&B	EC	15
Hamamelis vernalis / Vernal Witchazel	2-2.5' B&B	HV	13
Hibiscus syriacus 'Blue Satin' / Blue Satin Rose-of-Sharon	2-2.5' B&B	HB	14
Hibiscus syriacus 'Pink Chiffon' / Pink Chiffon Rose-of-Sharon	2-2.5' B&B	HS	20
Hydrangea 'All Summer Beauty' / All Summer Beauty Hydrangea	18-24"	ES	15
Hydrangea paniculata 'Bombshell' / Bombshell Hydrangea	#3	HP	2
Hydrangea paniculata 'Little Quick Fire' / Little Quick Fire Panicle Hydrangea	#3	LQ	50
Hydrangea quercifolia 'Munchkin' / Munchkin Oakleaf Hydrangea	#3	HM	10
Hydrangea quercifolia 'Ruby Slippers' / Ruby Slippers Oakleaf Hydrangea	#5	HQ	45
Ilex glabra 'Shamrock' / Shamrock Inkberry	2-2.5' B&B	IG	60
Ilex meserveae 'Blue Maid' / Blue Maid Holly	2-2.5' B&B	IM	38
Myrica pensylvanica / Northern Bayberry	#1	MP	40
Syringa meyeri 'Palibin' / Dwarf Korean Lilac	2.5-3' B&B	SM	45
Vaccinium corymbosum / Highbush Blueberry	#1	VC	40
Viburnum dentatum / Arrowwood Viburnum	#1	AV	40
GROUNDCOVERS			
Rhus aromatica 'Grow Low' / Grow Low Fragrant Sumac	#2	RA	96
GRASSES			
Pennisetum alopecuroides 'Burgundy Bunny' / Burgundy Bunny Fountain Grass	#2	BB	6
PERENNIALS			
Hemerocallis 'Happy Returns' / Happy Returns Daylily	#1	HR	80
Coreopsis 'Enchanted Eve' / Enchanted Eve Tickseed	#1	TE	66
Echinacea 'Butterfly Kisses' / Butterfly Kisses Coneflower	#1	BK	36
Liriope muscari 'Big Blue' / Big Blue Lilyturf	#1	LM	46
Perovskia atriplicifolia / Russian Sage	#1	PA	90
Rudbeckia fulgida 'Goldstrum' / Goldstrum Black-Eyed Susan	#1	RF	90
Salvia 'Caradonna' / Caradonna Sage	#1	SC	90
Salvia 'Marcus' / Marcus Sage	#1	SM	6

LOAM & SEED ALL DISTURBED AREAS (TYP.)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft

LANDSCAPE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

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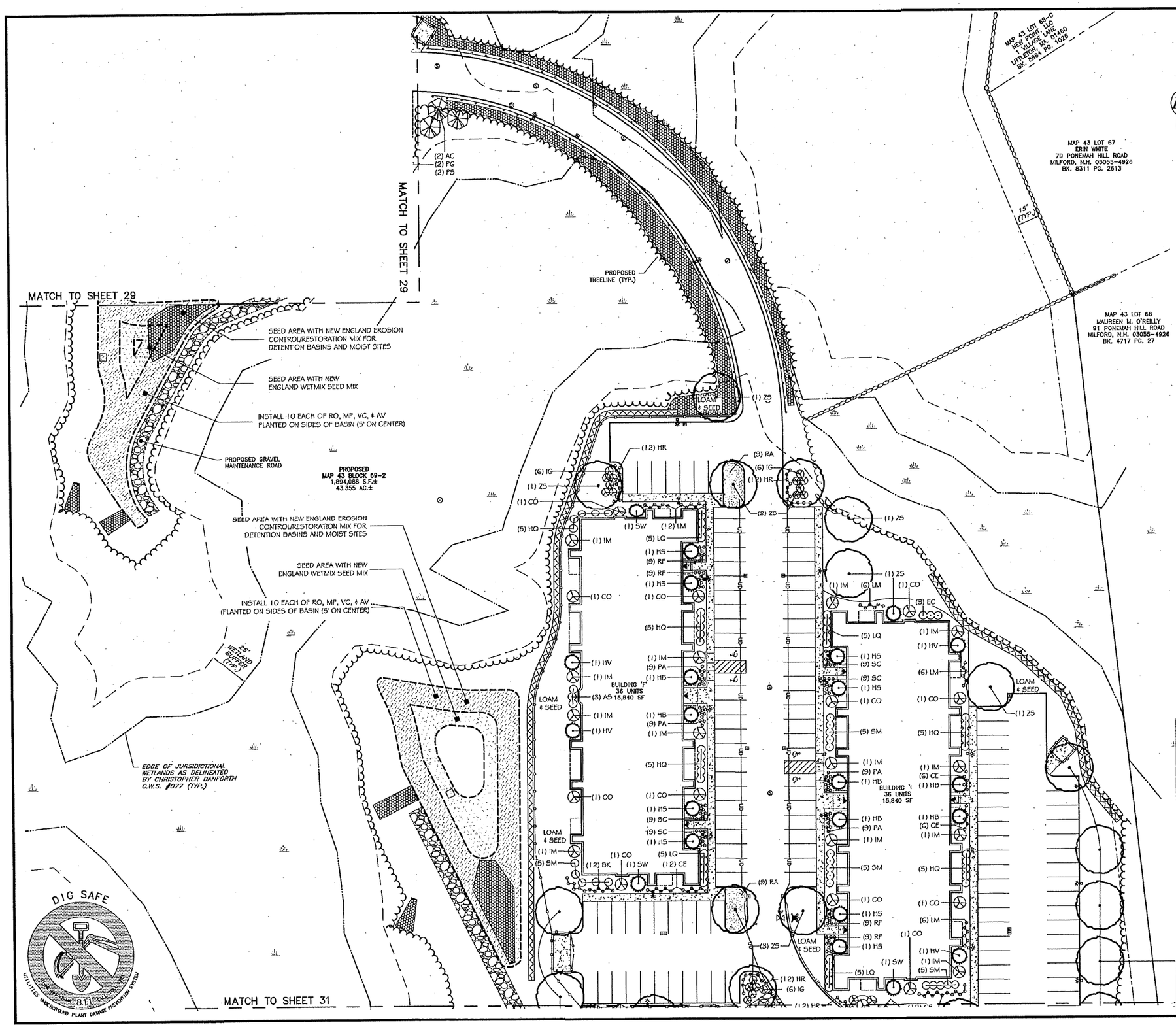
2/10/23

REVISIONS			
No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023	SCALE: 1" = 30'
PROJECT NO: 21-1216-1	SHEET 29 OF 45



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hopkinton nh 03229
603. 746. 3512
terrainplanning.com

LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 29 FOR NOTES AND LEGEND

GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

LANDSCAPE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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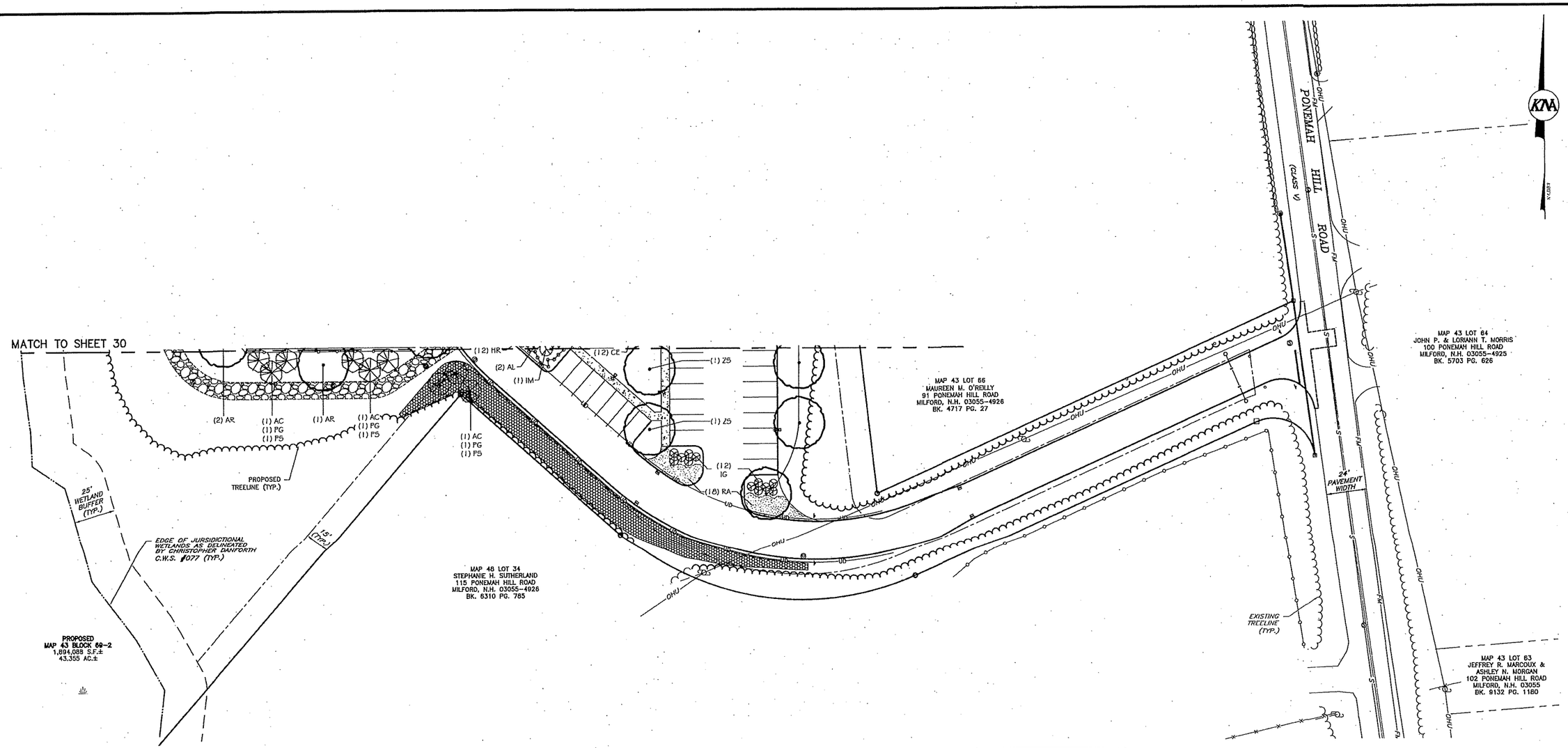

LOAM & SEED ALL DISTURBED AREAS (TYP.)

SEE SHEET 29 FOR NOTES AND LEGEND

DIG SAFE

811 UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

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LANDSCAPE PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
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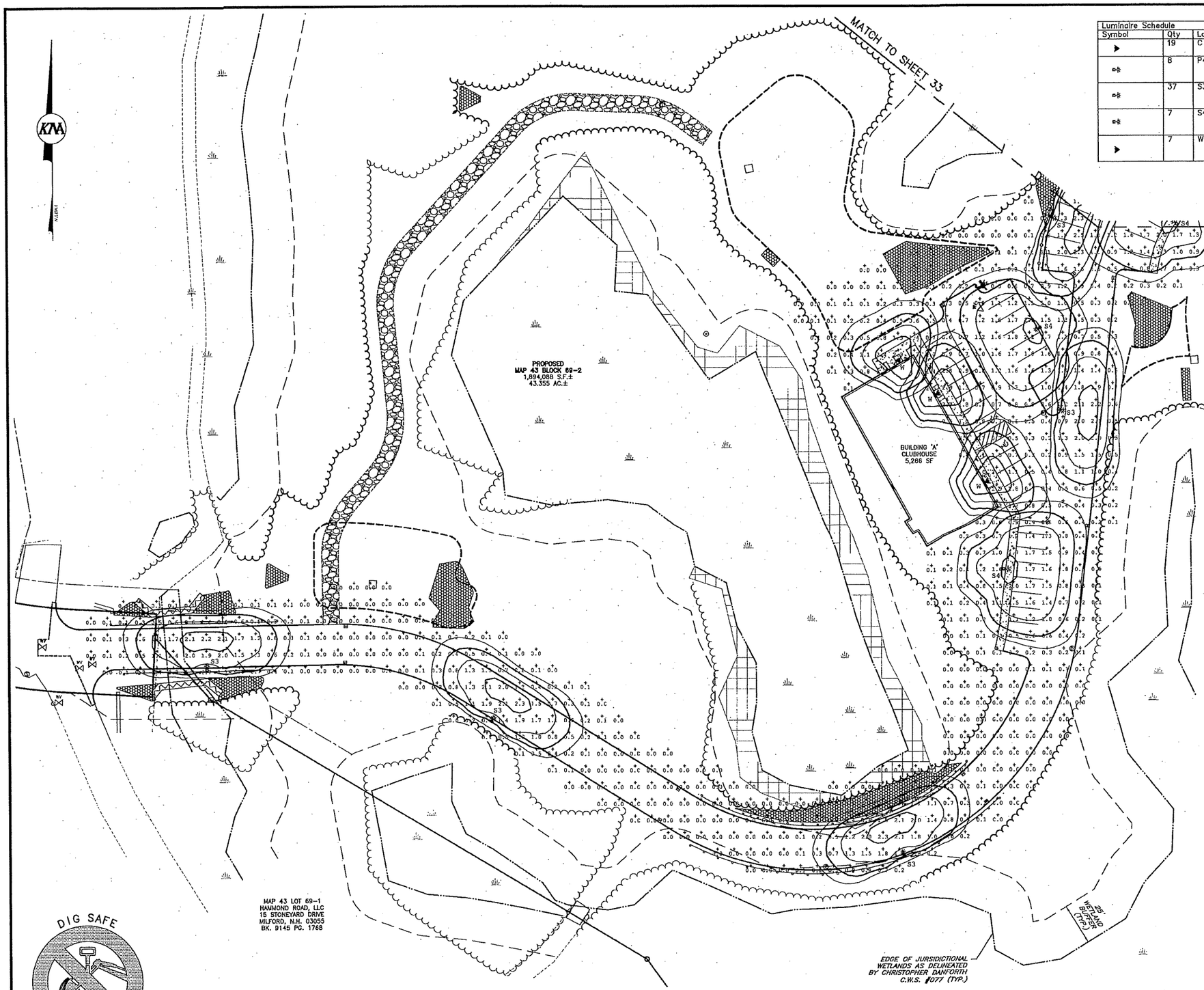
PROJECT NO: 21-1216-1 | SHEET 31 OF 45

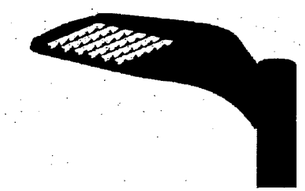
Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Description	[MANUFAC]
▶	19	C	Single	DSE63120SSQWH (3000K) / CANOPY MOUNTED	NICOR Inc.
¤✱	8	P4	Single	MRS-LED-03L-SIL-FT-UNV-DIM-30-70CRI / 4SQ-B3-S11G-14-S-GA (14' AFG)	LSI INDUSTRIES, INC.
¤✱	37	S3	Single	MRS-LED-06L-SIL-3-UNV-DIM-30-70CRI-IL / 4SQ-B3-S11G-20-S-GA (20' AFG)	LSI INDUSTRIES, INC.
¤✱	7	S4	Single	MRS-LED-06L-SIL-FT-UNV-DIM-30-70CRI / 4SQ-B3-S11G-20-S-GA (20' AFG)	LSI INDUSTRIES, INC.
▶	7	W	Single	XWM-FT-LED-03L-30-UE-CXX / WALL MTD 12' AFG	LSI INDUSTRIES, INC.



MIRADA MEDIUM WALL SCONCE (XWM)

STEEL LIGHT POLE

DSE EDGE LIT SURFACE MOUNT LED DOWNLIGHT



MIRADA SMALL AREA (MRS)

EXPOSURE
KENNETH SWEENEY | APPLICATIONS ENGINEER
603.758.1042
6 SCOTT RD | HAMPTON, NH 03842 | 603.601.8580
EXPOSURELIGHTING.COM

LIGHTING PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

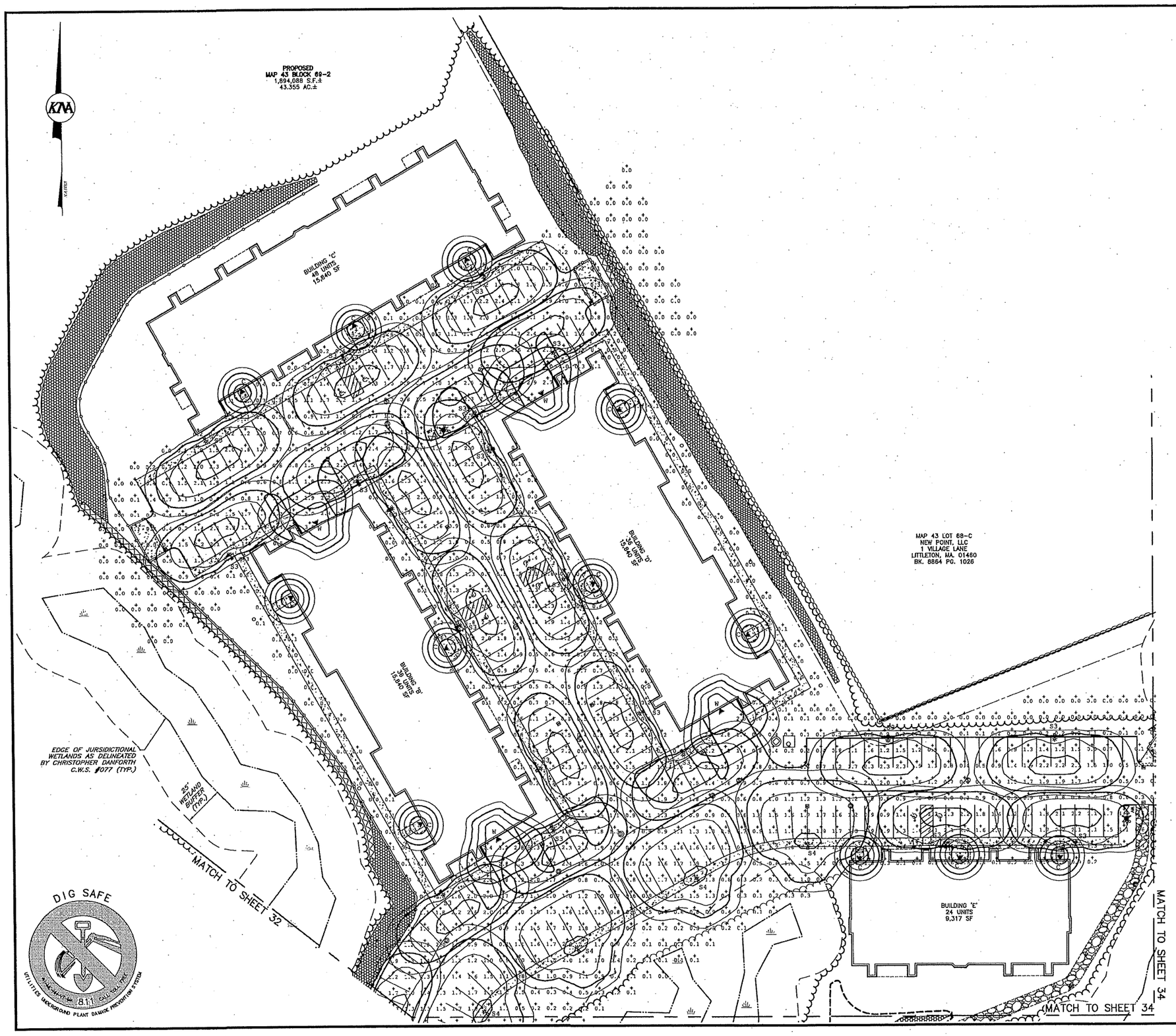
KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: 1" = 30'
PROJECT NO: 21-1216-1 | SHEET 32 OF 45



SEE SHEET 32 FOR NOTES & LEGEND

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

EXPOSURE
KENNETH SAFFERLY | APPLICATIONS ENGINEER
603.759.1049
6 SCOTT RD | HAMPTON, NH 03842 | 603.601.6060
EXPOSURELIGHTING.COM

LIGHTING PLAN

THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:	OWNER/APPLICANT:
SALT CREEK PROPERTIES, LLC PO BOX 967 AMHERST, NH 03031 H.C.R.D. BK. 8420 PG. 1596	TM BOLDUC HOLDINGS, LLC 131 BURKE STREET, SUITE A NASHUA, NH 03060

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Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

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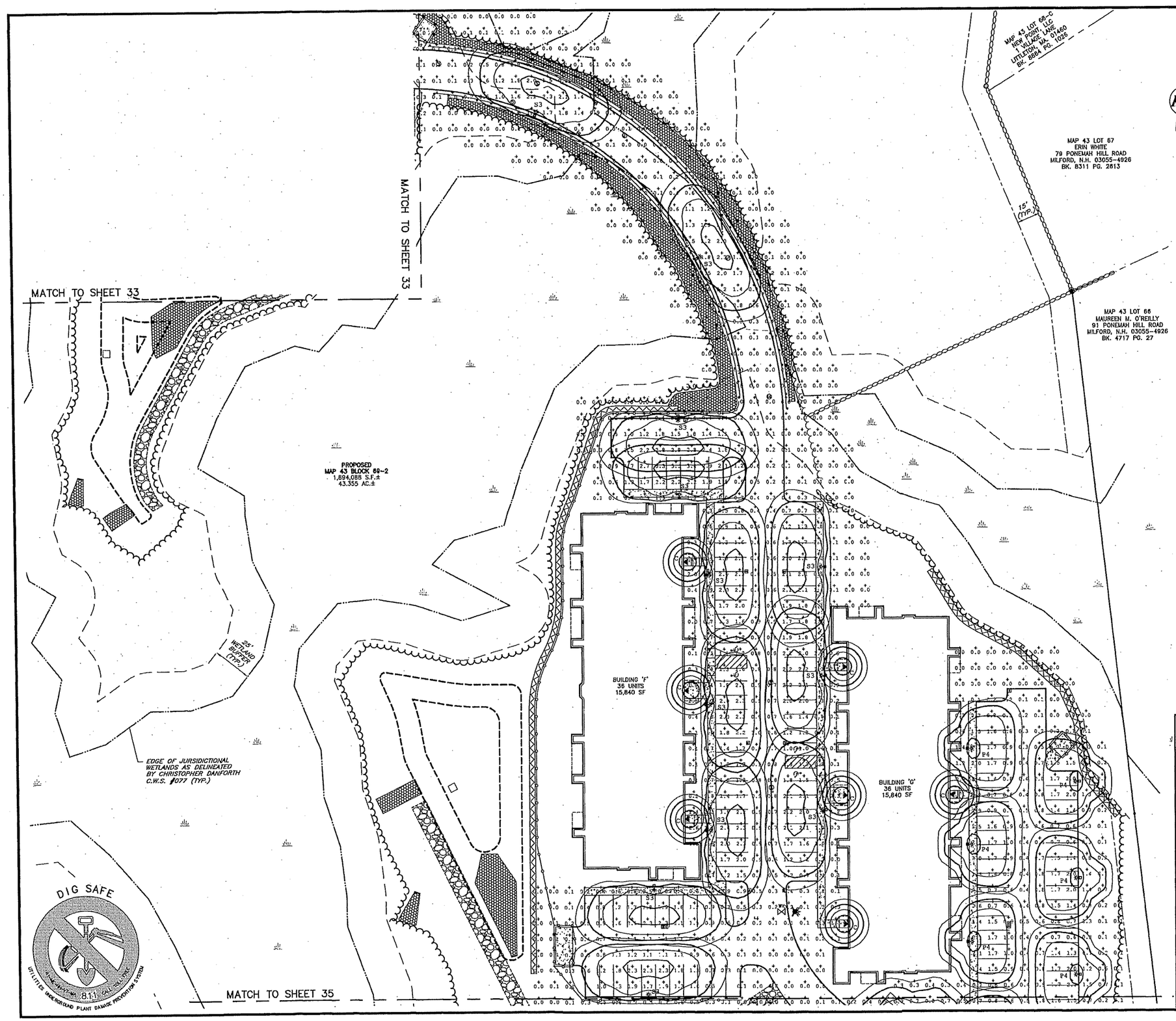

SEE SHEET 32 FOR NOTES & LEGEND

GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

EXPOSURE

LIGHTING PLAN

THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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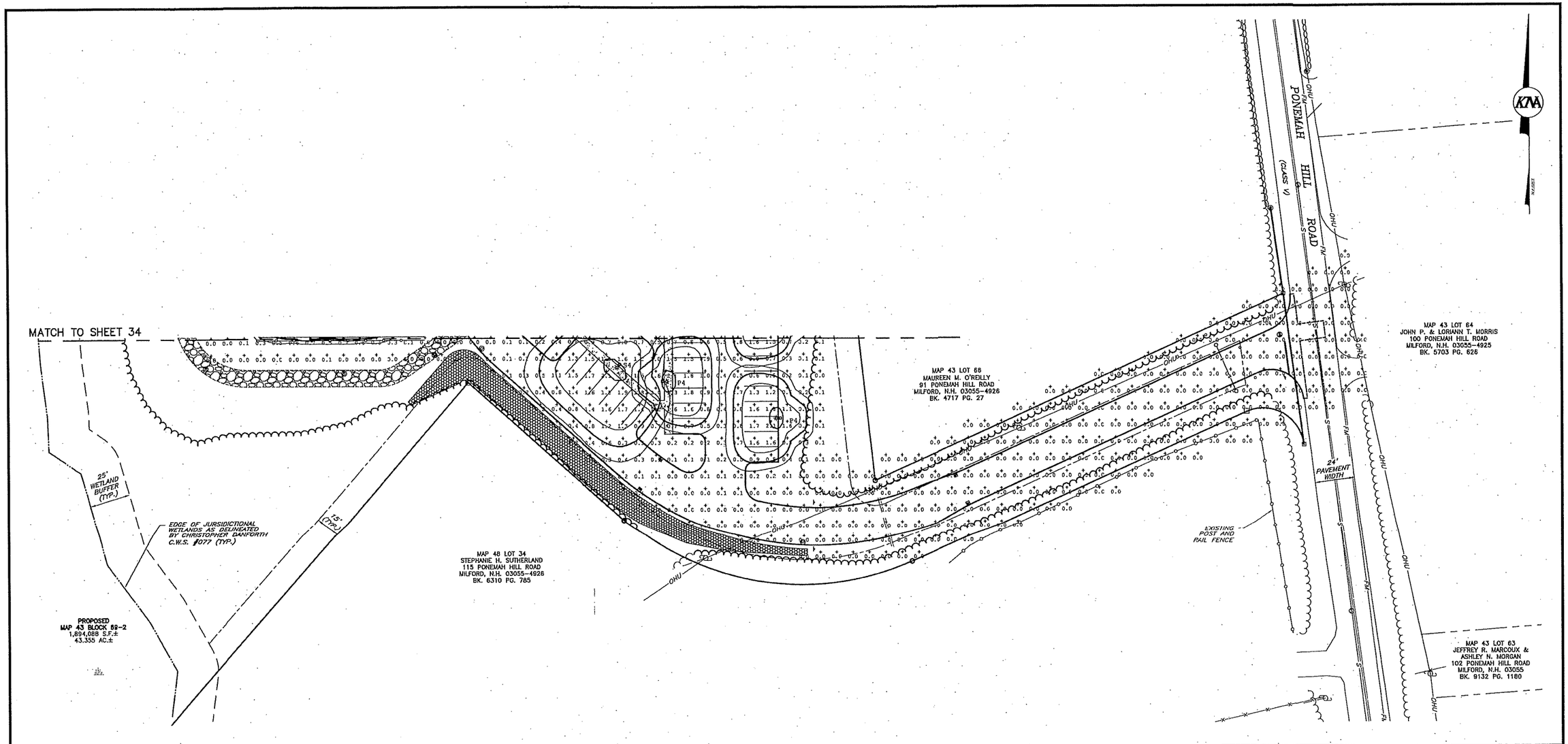

SEE SHEET 32 FOR NOTES & LEGEND

DIG SAFE
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
811

GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

EXPOSURE LIGHTING

KATHERINE SWEETSER | Sales Engineer
603.759.1043
6 SCOTT RD | HAMPTON, NH 03842 | 603.601.0680
EXPOSURELIGHTING.COM

LIGHTING PLAN
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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2/15/23

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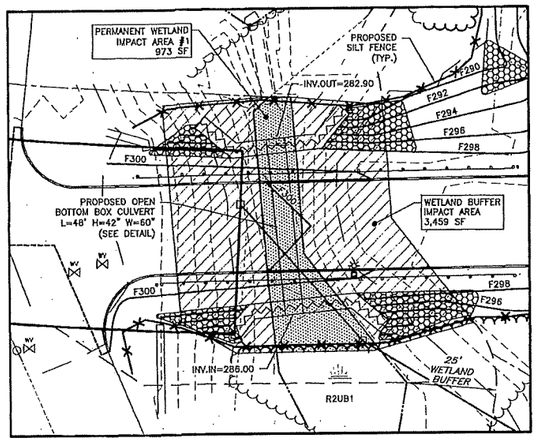
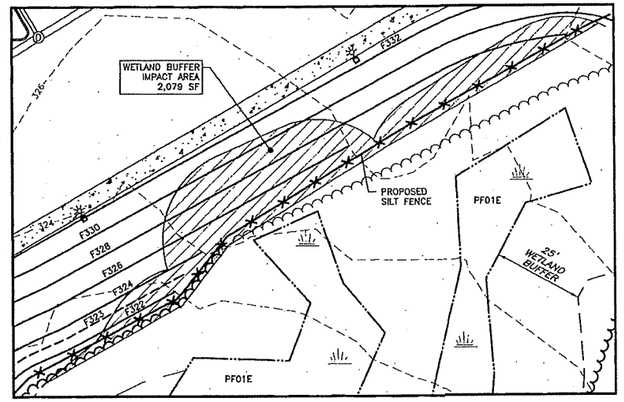


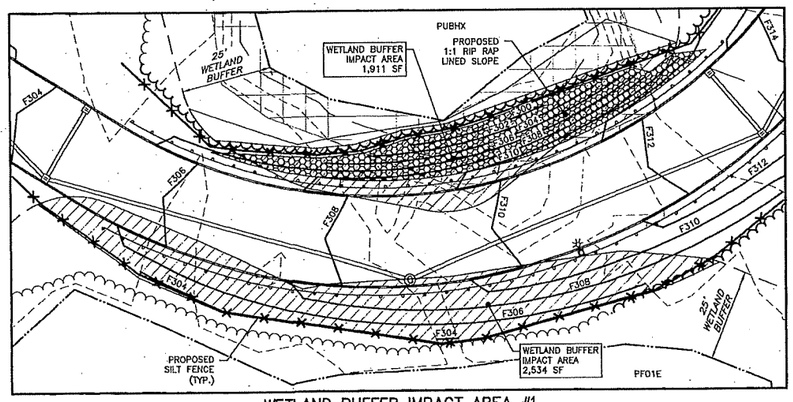
WETLAND IMPACT AREA #1
SCALE: 1" = 20'



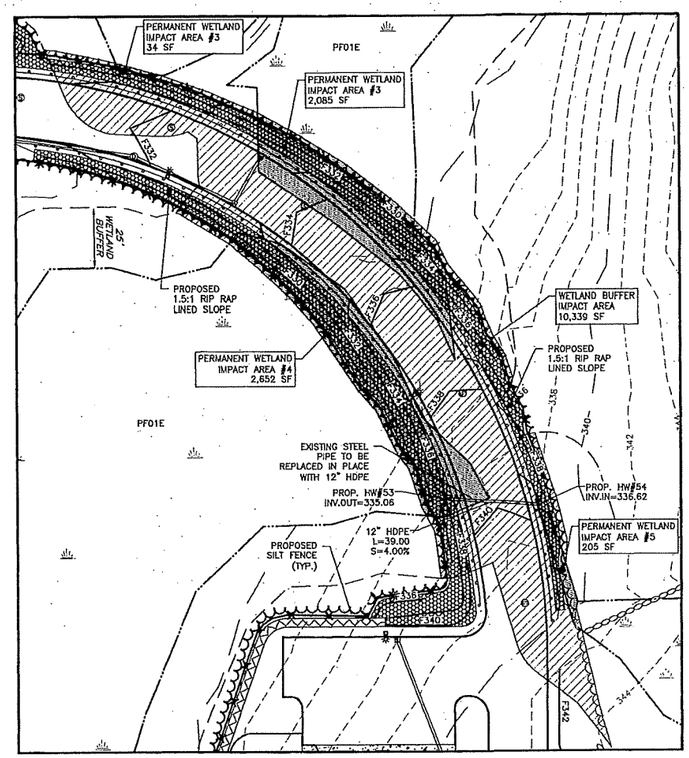
WETLAND BUFFER IMPACT AREA #3
SCALE: 1" = 20'

NOTES:

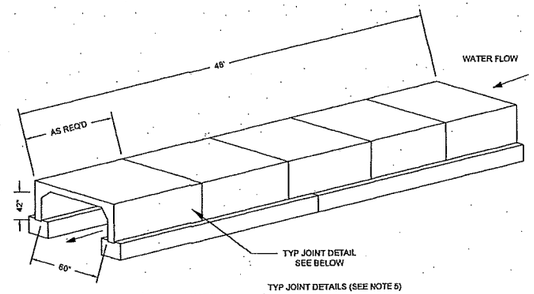
1. THE PURPOSE OF THIS PLAN IS TO SHOW THE WETLAND AND WETLAND BUFFER IMPACTS ASSOCIATED WITH THE CONSTRUCTION OF A 216 UNIT APARTMENT COMPLEX ON MAP 43 BLOCK 69 IN MILFORD, NEW HAMPSHIRE AND NO OTHER PURPOSE.
2. THE PROJECT PROPOSES THE FOLLOWING:
   TOTAL COMBINED PERMANENT WETLAND IMPACT AREA = 5,949 SF
   TOTAL COMBINED WETLAND BUFFER IMPACT AREA = 20,817 SF
3. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF MILFORD, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, APPROVED AND ADOPTED 2016 ARE HEREBY INCORPORATED BY REFERENCE.
4. CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS FOR ROAD CONSTRUCTION, PUBLIC WORKS DEPARTMENT, MILFORD, NEW HAMPSHIRE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 811 AT LEAST 72 HOURS BEFORE DIGGING.
6. THE CONTRACTOR SHALL TAKE CARE WHEN EXCAVATING DUE TO LACK OF RECORD UTILITY INFORMATION. ANY UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE REPORTED TO THE DESIGN ENGINEER.
7. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
8. FINAL UTILITY CONNECTION SIZES, TYPES, AND LOCATIONS SHALL BE CONFIRMED WITH THE PLUMBING ENGINEER. ANY CHANGES SHALL BE COMMUNICATED WITH KEACH-NORDSTROM ASSOCIATES, INC. PRIOR TO CONSTRUCTION.
9. PROPOSED WETLAND CROSSING IS SUBJECT TO NHDES REQUIREMENTS FOR STREAM CROSSINGS. WORK SHALL BE DONE DURING PERIODS OF LOW FLOW.
10. PROPER EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED (I.E. SILT FENCE, HAY BALES, ETC.) PRIOR TO COMMENCING EXCAVATION EFFORTS. THE CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL COMPLETION OF CONSTRUCTION. THE TOWN OF MERRIMACK RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION, IF NECESSARY.
11. TEMPORARY EROSION CONTROLS SHALL BE REMOVED UPON FINAL STABILIZATION OF DISTURBED AREAS.
12. SITE CONTRACTOR MAY PROPOSE ALTERNATIVE MEANS FOR DEWATERING, TO BE REVIEWED AND APPROVED PRIOR TO INSTALLATION.



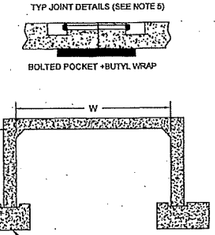
WETLAND BUFFER IMPACT AREA #1
SCALE: 1" = 20'



WETLAND IMPACT AREA #2
SCALE: 1" = 30'



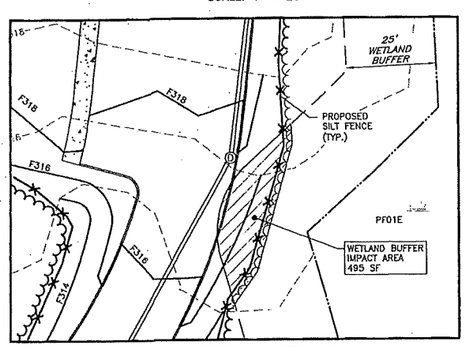
TYP JOINT DETAILS (SEE NOTE 5)



NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN PER ASTM C1504 SPECIFICATION FOR 3-SIDED CULVERT.
3. ALL REINFORCEMENT PER ASTM A615.
4. DESIGNED AASHTO HS-20 LOADING OR AS REQUIRED.
5. TONGUE AND GROOVE JOINT SEALED WITH BUTYL WRAP.
6. PRECAST FOOTINGS OPTIONAL

PRECAST OPEN BOTTOM BOX CULVERT DETAIL
NOT TO SCALE



WETLAND BUFFER IMPACT AREA #2
SCALE: 1" = 20'

LOAM & SEED ALL DISTURBED AREAS (TYP.)

FURNISH & INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 OR STEEPER (TYP.)

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

WETLAND CLASSIFICATION:

PF01E	PALUSTRINE, FORESTED, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED
PUBHX	PALUSTRINE, UNCONSOLIDATED BOTTOM, PERMANENTLY FLOODED, EXCAVATED
R2UB1	RIVERINE, LOWER PERENNAL, UNCONSOLIDATED BOTTOM, COBBLE-GRAVEL

LEGEND

- PROPERTY LINE
- WETLAND
- TREELINE
- 10' CONTOUR
- 2' CONTOUR
- PROPOSED DRAINAGE LINE
- PROPOSED TREELINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED VERTICAL GRANITE CURB
- PROPOSED GUARDRAIL
- PROPOSED 2' CONTOUR
- SILT FENCE
- PERMANENT WETLAND IMPACT
- WETLAND BUFFER IMPACT

EROSION & SEDIMENT CONTROL LEGEND

- PERMANENT OUTLET PROTECTION APRON (RIP RAP)
- TEMPORARY DANDY BAG
- SILT FENCE
- EROSION CONTROL BLANKETS
- NON DISTURBANCE AREA
- LIMITS OF CLEARING

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

STATE OF NEW HAMPSHIRE CHRISTOPHER K. DANFORTH No. 077 CERTIFIED WETLAND SCIENTIST

CHRISTOPHER K. DANFORTH, CERTIFIED WETLAND SCIENTIST #077 OF KEACH-NORDSTROM ASSOCIATES, INC. OF BEDFORD, NH PERFORMED THE DELINEATION OF JURISDICTIONAL WETLANDS IN SEPTEMBER OF 2022 USING THE TECHNICAL CRITERIA IN THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987).

CERTIFIED WETLAND SCIENTIST — DATE 2/16/2023

DIG SAFE — UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM — CALL US AT 811

WETLAND IMPACT PLAN
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 957
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

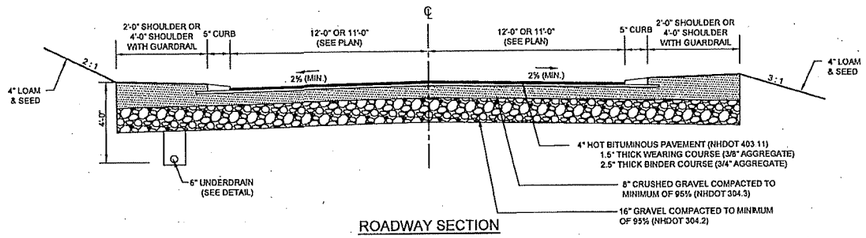
KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

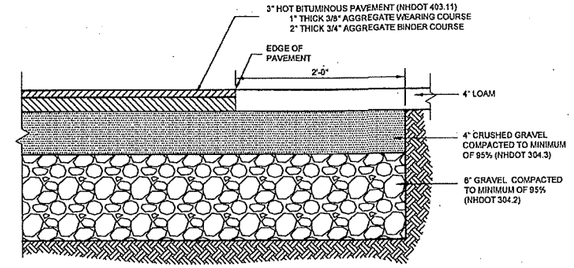
REVISIONS

No.	DATE	DESCRIPTION	BY

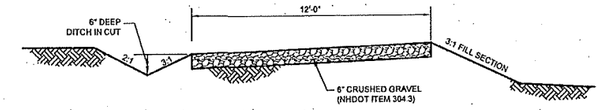
DATE: FEBRUARY 9, 2023 — SCALE: AS NOTED
PROJECT NO: 21-1216-1 — SHEET 36 OF 45



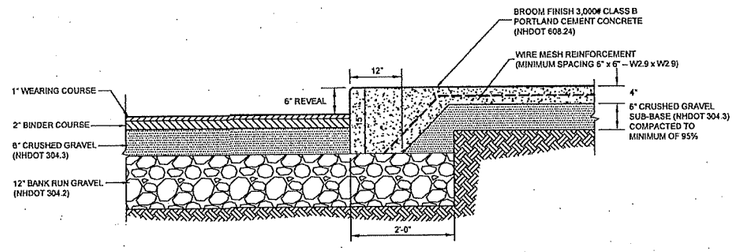
ROADWAY SECTION
NOT TO SCALE
(MARCH 2008)



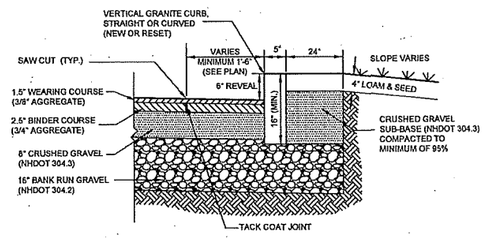
DRIVEWAY AND PARKING LOT SECTION
NOT TO SCALE
(MARCH 2008)



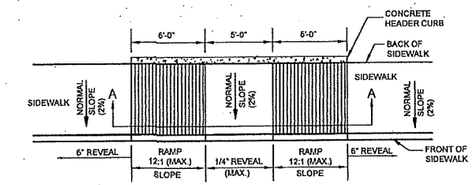
TYPICAL GRAVEL MAINTENANCE ROAD CROSS SECTION
NOT TO SCALE
(MARCH 2011)



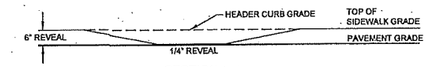
INTEGRAL CURB AND WALK DETAIL
NOT TO SCALE
(MARCH 2008)



VERTICAL GRANITE CURB DETAIL
NOT TO SCALE
(MARCH 2008)



PLAN

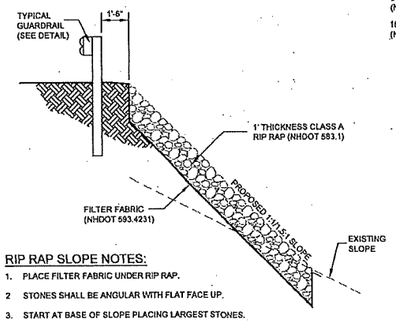


SECTION A-A

NOTES:

1. A BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP SHALL BE USED ON PORTLAND CEMENT CONCRETE RAMPS.
2. MAINTAIN THE NORMAL PAVEMENT PROFILE THROUGHOUT THE RAMP AREA.
3. MAINTAIN A MAXIMUM 1/4" OF CURB REVEAL AT THE RAMP, SEE SECTION A-A

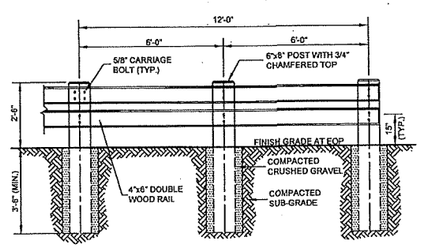
SIDEWALK RAMP
NOT TO SCALE
(JUNE 2012)



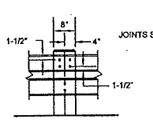
RIP RAP SLOPE NOTES:

1. PLACE FILTER FABRIC UNDER RIP RAP.
2. STONES SHALL BE ANGULAR WITH FLAT FACE UP.
3. START AT BASE OF SLOPE PLACING LARGEST STONES.

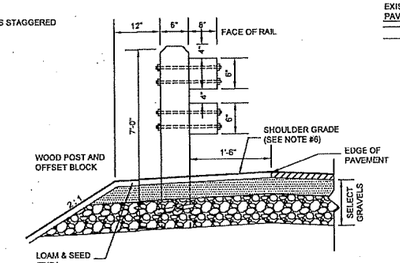
RIP RAP LINED SLOPE DETAIL
NOT TO SCALE
(MARCH 2008)



ELEVATION



BOLT DETAIL

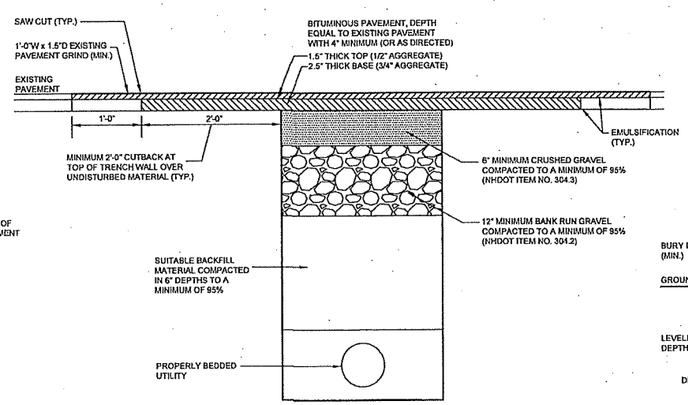


SIDE VIEW

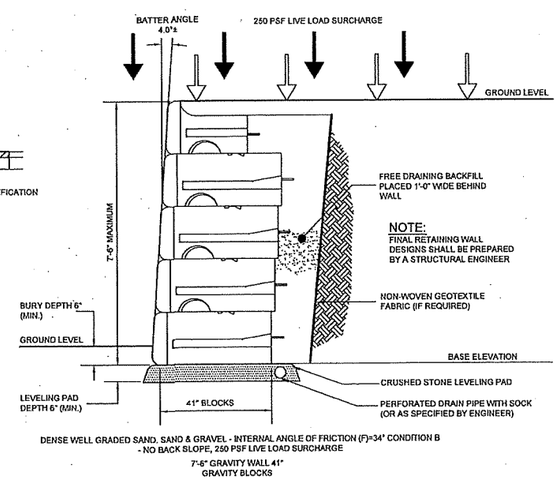
NOTES:

1. ALL TIMBERS SHALL BE PRESSURE TREATED.
2. PAY LIMIT = PER LINEAR FOOT INCLUDING END SECTION.
3. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED.

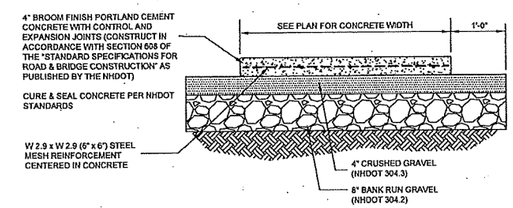
WOOD BEAM GUARDRAIL
NOT TO SCALE
(AUGUST 2011)



PERMANENT PAVEMENT REPAIR
NOT TO SCALE
(MARCH 2008)



REDI-ROCK WALL
NOT TO SCALE
(AUGUST 2011)



CONCRETE WALK DETAIL
NOT TO SCALE
(MARCH 2008)

CONSTRUCTION DETAILS
THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:	OWNER/APPLICANT:
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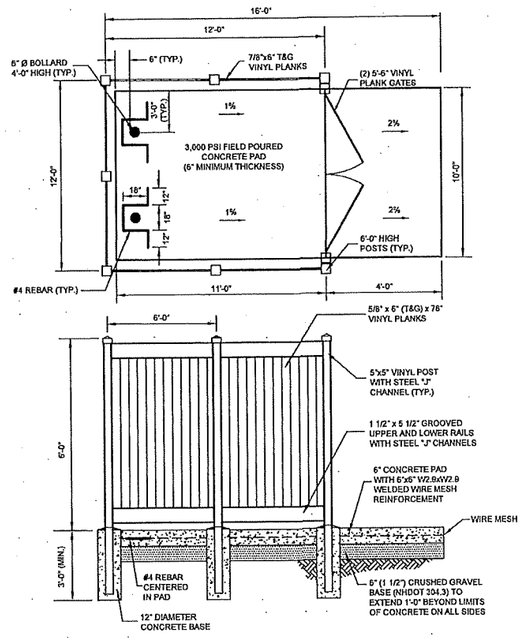
2/14/23

REVISIONS

No.	DATE	DESCRIPTION	BY

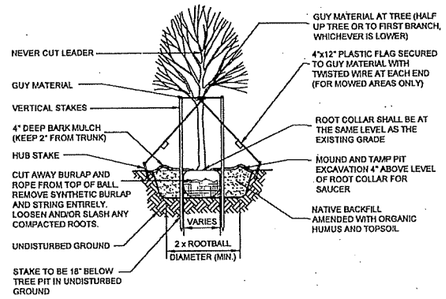
DATE: FEBRUARY 9, 2023 | SCALE: AS NOTED
PROJECT NO: 21-1216-1 | SHEET 37 OF 45



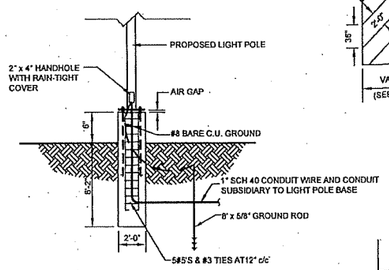
NOTE:
THIS DUMPSTER ENCLOSURE WILL ACCOMMODATE MOST 2, 4, 6 AND 8 CY DUMPSTERS.

VINYL TRASH ENCLOSURE DETAIL (SINGLE)
NOT TO SCALE
(MARCH 2008)

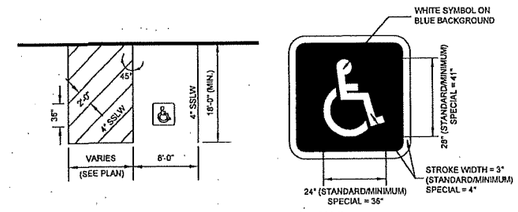
NOTE:
GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE
(JANUARY 2012)



CONCRETE LIGHT POLE BASE DETAIL
NOT TO SCALE
(MARCH 2008)

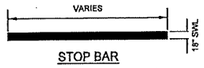


HANDICAP STRIPING DETAIL
NOT TO SCALE
(MARCH 2012)

STRIPING NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THESE STANDARDS AND THE CURRENT EDITION OF MUTCD.
2. WIDTH OF LINES SHALL VARY NO MORE THAN ± 1/4 INCH FROM THAT SPECIFIED.
3. THE WET FILM THICKNESS OF A PAINTED LINE SHALL BE A MINIMUM OF 15 MILS THROUGHOUT THE ENTIRE WIDTH AND LENGTH OF LINE SPECIFIED.
4. OVERSPRAY SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
5. BROKEN LINES SHALL BEGIN AND END WITH THE NEAREST FULL CYCLE OF BROKEN LINE.
6. SOLID LONGITUDINAL LINES SHALL BEGIN AND END WITHIN ± 2 INCHES OF A LAYOUT SYMBOL INDICATING THE END OF THE LINE, OR WITH A FULL CYCLE OF BROKEN LINE (IF APPROPRIATE).

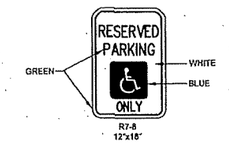
R1-1
30" x 30"

STOP SIGN DETAIL
NOT TO SCALE
(MARCH 2008)

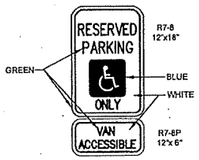


STOP BAR

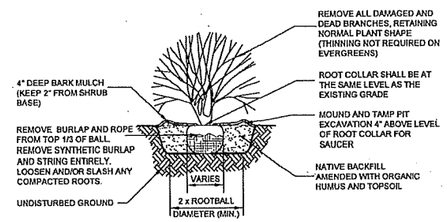
TRAFFIC SIGN NOTES:
1. ALL TRAFFIC SIGN FACES AND SHAPES SHALL CONFORM WITH THE MUTCD.
2. ALL SIGN POST MOUNTS SHALL CONFORM WITH THE AASHTO AND NHDOT SPECIFICATIONS.



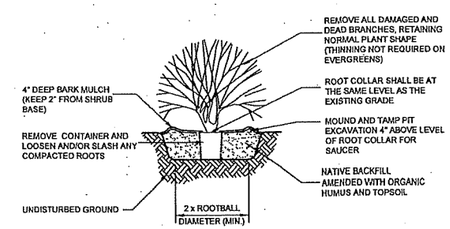
HANDICAP PARKING SIGN DETAIL
NOT TO SCALE
(MARCH 2008)



VAN ACCESSIBLE HANDICAP PARKING SIGN DETAIL
NOT TO SCALE
(NOVEMBER 2016)

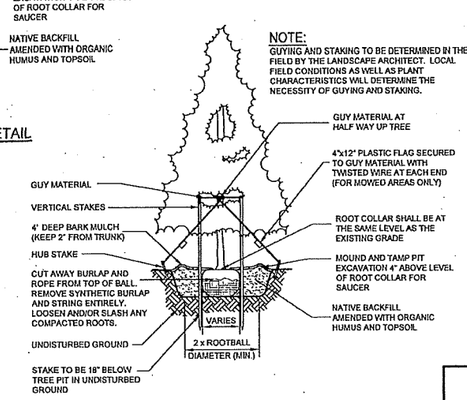


BALLED & BURLAP SHRUB PLANTING DETAIL
NOT TO SCALE
(JANUARY 2012)

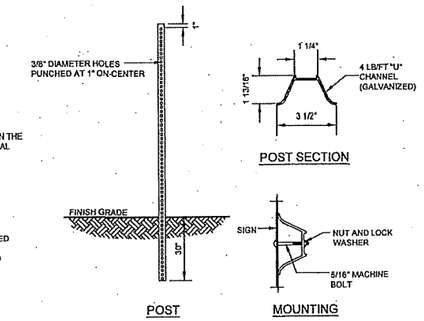


CONTAINER SHRUB PLANTING DETAIL
NOT TO SCALE
(JANUARY 2012)

NOTE:
GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.



EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE
(JANUARY 2012)



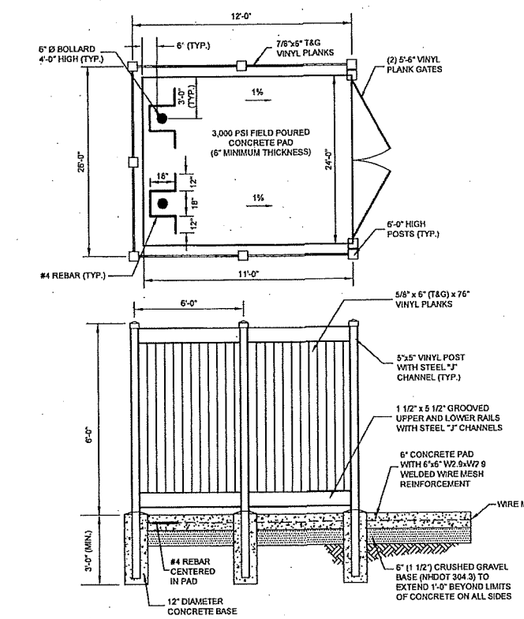
POST SECTION

POST

MOUNTING

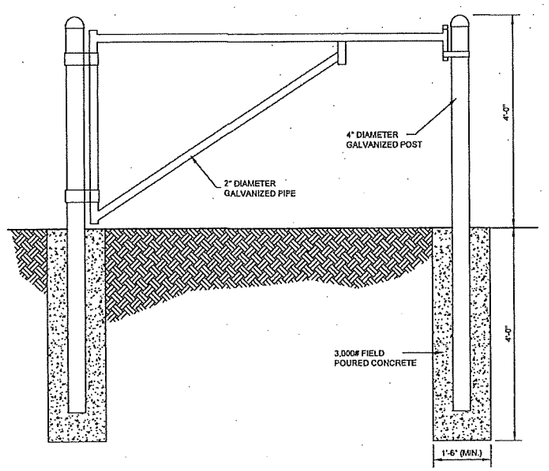
NOTE:
POST SHALL CONFORM TO NHDOT 615.2.5.3

STEEL SIGN POST DETAIL
NOT TO SCALE
(MARCH 2008)

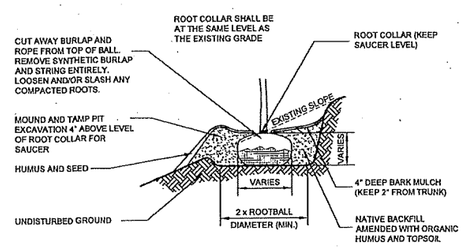


NOTE:
THIS DUMPSTER ENCLOSURE WILL ACCOMMODATE MOST 2, 4, 6 AND 8 CY DUMPSTERS.

VINYL TRASH ENCLOSURE DETAIL (DOUBLE)
NOT TO SCALE
(MARCH 2008)



GALVANIZED GATE DETAIL
NOT TO SCALE
(MARCH 2008)



TYPICAL PLANTING PIT ON SLOPE 4:1 OR GREATER
NOT TO SCALE
(JANUARY 2012)

CONSTRUCTION DETAILS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

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REVISIONS

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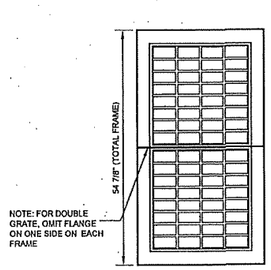
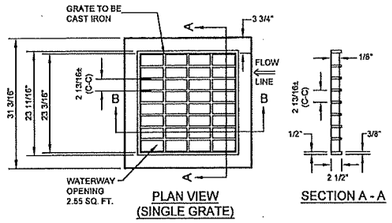
DATE: FEBRUARY 9, 2023 | SCALE: AS NOTED
PROJECT NO: 21-1216-1 | SHEET 38 OF 45

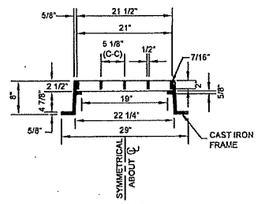


PLAN VIEW
(DOUBLE GRATE)



PLAN VIEW
(SINGLE GRATE)

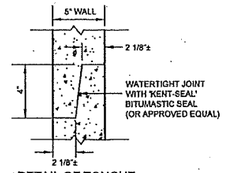
SECTION A - A



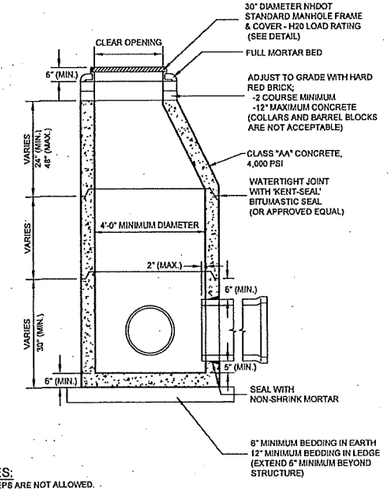
SECTION B - B

TYPE B FRAME & GRATE DETAIL

NOT TO SCALE
(MARCH 2008)



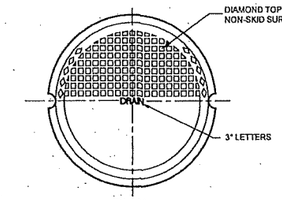
DETAIL OF TONGUE AND GROOVE JOINT



NOTES:
1. STEPS ARE NOT ALLOWED.
2. ALL SECTIONS SHALL BE CONCRETE CLASS AA (4,000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER L.F. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE WALL.
3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER L.F.
4. MATERIALS AND CONSTRUCTION TO NHDOT STANDARDS.

PRECAST REINFORCED DRAIN MANHOLE DETAIL

NOT TO SCALE
(MARCH 2008)

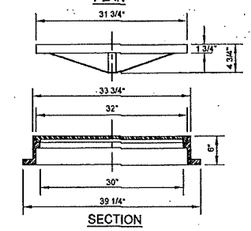


PLAN

NOTES:
NEW HAMPSHIRE MAINTAINS A CLEAR OPENING DESIGNATION OF 30" FOR ITS MANHOLE CASTINGS.

FEATURES:
- 3" LETTERING
- COVERS MARKED DRAIN
- NONROCKING COVER
- DIAMOND SURFACE DESIGN

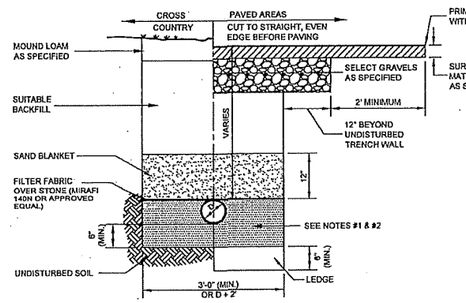
SPECIFICATIONS:
- FULLY MACHINED FRAME AND COVER
- H-20 LOAD RATED
- GRAY CAST IRON MEETS ASTM A48 CLASS 30



SECTION

DRAIN MANHOLE FRAME AND COVER DETAIL

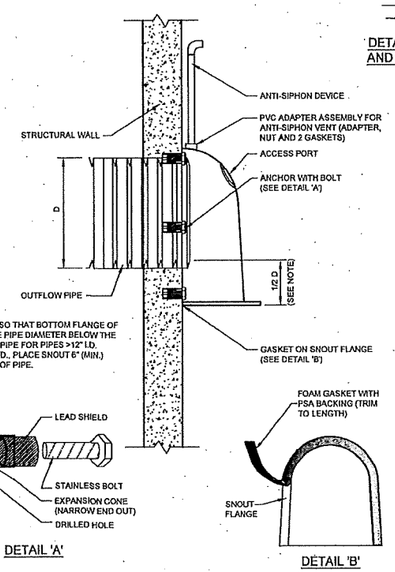
NOT TO SCALE



NOTES
1. THOROUGHLY COMPACTED SCREENED GRAVEL FOR RCP PIPE. SCREENED GRAVEL TO EXTEND TO SELECT FILL LINE.
2. FOR HDPE OR PVC PIPE, BEDDING SHALL BE 3/4" STONE TO THE TOP OF THE PIPE.

STORM DRAINAGE TRENCH DETAIL

NOT TO SCALE
(MARCH 2008)



NOTE:
POSITION HOOD SO THAT BOTTOM FLANGE OF SNOUT IS 1/2 THE PIPE DIAMETER BELOW THE BOTTOM OF THE PIPE FOR PIPES >12" I.D. FOR PIPES <10" I.D., PLACE SNOUT 6" (MIN.) BELOW BOTTOM OF PIPE.

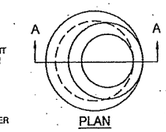
DETAIL 'A'

DETAIL 'B'

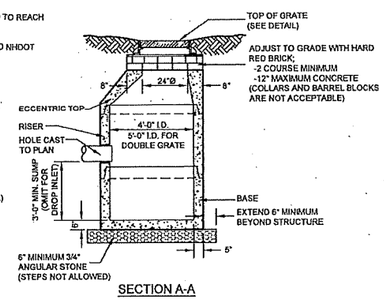
SNOUT OIL AND DEBRIS STOP DETAIL (OR EQUAL)

NOT TO SCALE
(MARCH 2008)

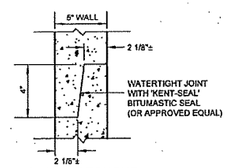
NOTES:
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCH PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
2. THE TONGUE OR GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCH PER LINEAR FOOT.
3. RISER OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
4. MATERIALS AND CONSTRUCTION TO NHDOT STANDARDS.



PLAN



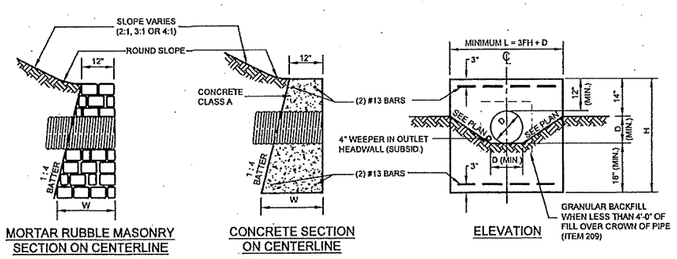
SECTION A-A



DETAIL OF TONGUE AND GROOVE JOINT

PRECAST REINFORCED CATCH BASIN

NOT TO SCALE
(MAY 2012)



MORTAR RUBBLE MASONRY SECTION ON CENTERLINE

CONCRETE SECTION ON CENTERLINE

ELEVATION

NOTE:
DIMENSIONS SHOWN ARE TO PAYMENT LINES. MORTAR RUBBLE MASONRY TO BE STEPPED OUTSIDE PAYMENT LINES ON SLOPING FACES.

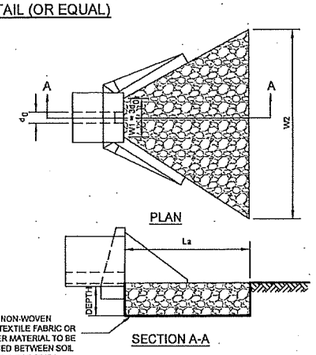
DIAMETER D (INCH)	AREA OF PIPE (SF)	MASONRY PER FOOT OF WALL (CU. YD.)	MASONRY PER HOLE (CU. FT.)	MASONRY PER STANDARD HEADER (CU. YD.)	STEEL PER STANDARD HEADER (LB)	LENGTH OF BARS	PIPE EXC. 1' DEPTH 1' LENGTH (CU. YD.)	HEADER EXC. PER HEADER 1' DEPTH (CU. YD.)	ITEM 209 PER LINEAR FOOT	HEADER LENGTH L	HEADER HEIGHT H	FILL HEIGHT FH	WIDTH AT BOTTOM OF HEADER W	"L" HEADWALL MASONRY IN CORNER FRUSTRUM (CU. YD)	"L" HEADWALL HEADER EXC. PER HEADER 1' DEPTH (CU. YD.)
12"	0.79	0.166	1.08	0.61	9	3'-2"	0.111	0.789	0.30	3'-6"	3'-6"	10"	1'-10 1/2"	0.28	1.057
15"	1.23	0.202	1.73	0.85	11	3'-10"	0.120	0.947	0.35	4'-6"	3'-9"	1'-1"	1'-11 1/4"	0.31	1.232
18"	1.77	0.222	2.52	1.13	14	5'-2"	0.130	1.111	0.39	5'-6"	4'-0"	1'-4"	2'-0"	0.35	1.406
24"	3.14	0.260	4.71	1.76	20	7'-2"	0.148	1.451	0.48	7'-6"	4'-6"	1'-10"	2'-1 1/2"	0.42	1.776
30"	4.91	0.301	7.67	2.58	25	9'-2"	0.165	1.810	0.65	9'-6"	5'-0"	2'-4"	2'-3"	0.51	2.164

NOTE: STEEL QUANTITIES ARE FOR CONCRETE HEADWALLS ONLY.

MORTAR RUBBLE MASONRY AND CONCRETE HEADWALLS

NOT TO SCALE
(MARCH 2008)

TABLE 7-24 – RECOMMENDED RIP RAP GRADATION RANGES	
PERCENT OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE
100%	1.5 TO 2.0 d50
85%	1.3 TO 1.8 d50
50%	1.0 TO 1.5 d50
15%	0.3 TO 0.5 d50



SECTION A-A

PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

NOT TO SCALE
(MARCH 2008)

LOCATION	La	W1	W2	d50	DEPTH
PROP. HW#1	12'	3'	16'	3"	8"
PROP. HW#3	11'	3'	7'	3"	8'
PROP. HW#5	13'	3'	16'	3"	8"
PROP. HW#14	12'	5'	16'	3"	8"
PROP. HW#17	10'	3'	13'	3"	8"
PROP. HW#19	10'	3'	13'	3"	8"
PROP. HW#22	29'	6'	18'	4"	10"
PROP. HW#32	17'	3'	10'	3"	8"
PROP. HW#34	18'	5'	12'	3"	8"
PROP. HW#41	15'	4'	10'	3"	8"
PROP. HW#43	21'	4'	12'	3"	8"
PROP. HW#45	29'	6'	17'	3"	8"

CONSTRUCTION SPECIFICATIONS:
1. THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. FRACTURED ROCK USED FOR FILTER OR RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP. 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 INCHES.
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 MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

MAINTENANCE:
THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR RAIN EVENT. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED, OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

CONSTRUCTION DETAILS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

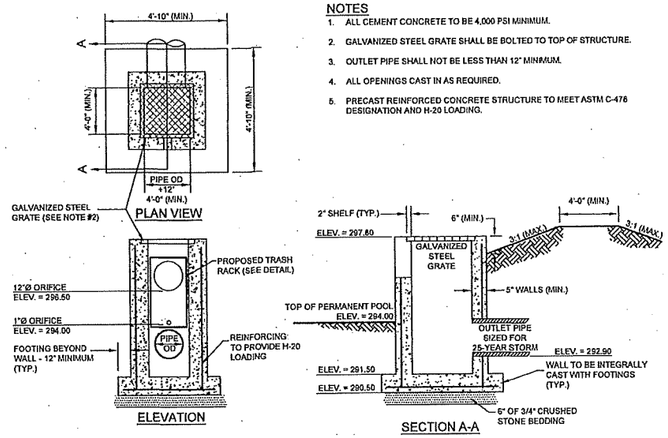
KNA KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: AS NOTED
PROJECT NO: 21-1216-1 | SHEET 39 OF 45



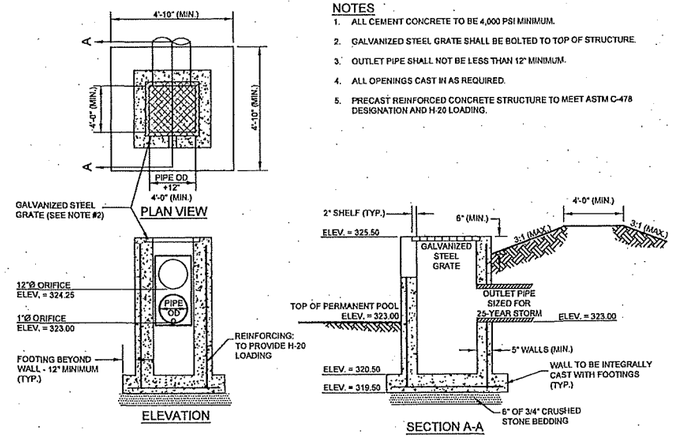
NOTES

1. ALL CEMENT CONCRETE TO BE 4,000 PSI MINIMUM.
2. GALVANIZED STEEL GRATE SHALL BE BOLTED TO TOP OF STRUCTURE.
3. OUTLET PIPE SHALL NOT BE LESS THAN 12" MINIMUM.
4. ALL OPENINGS CAST IN AS REQUIRED.
5. PRECAST REINFORCED CONCRETE STRUCTURE TO MEET ASTM C-478 DESIGNATION AND H-20 LOADING.

OUTLET STRUCTURE #2 AT WET POND #1

NOT TO SCALE

(AUGUST 2011)



NOTES

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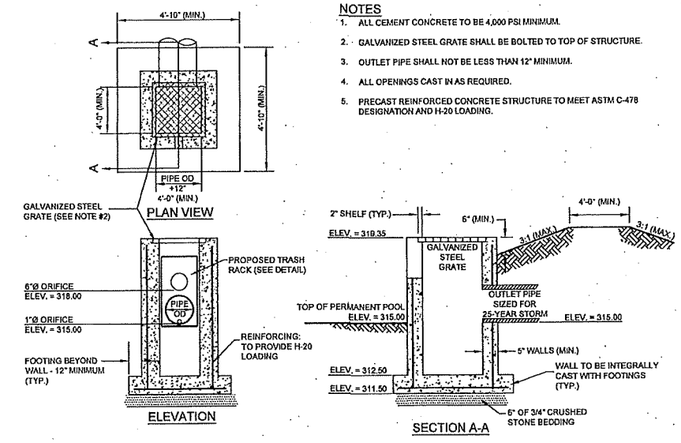
3. OUTLET PIPE SHALL NOT BE LESS THAN 12" MINIMUM.
4. ALL OPENINGS CAST IN AS REQUIRED.
5. PRECAST REINFORCED CONCRETE STRUCTURE TO MEET ASTM C-478 DESIGNATION AND H-20 LOADING.

OUTLET STRUCTURE #33 AT WET POND #2

NOT TO SCALE

(AUGUST 2011)



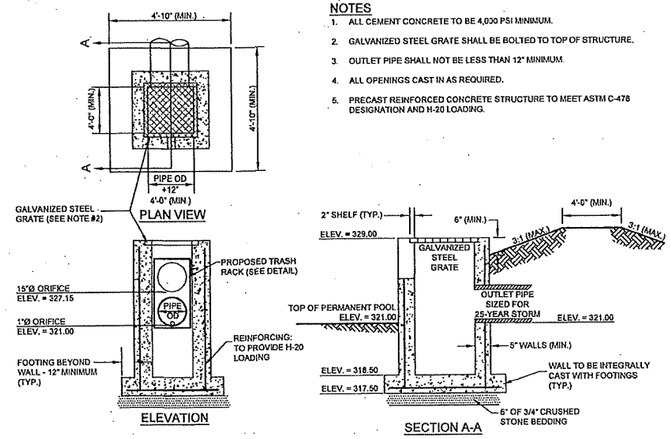
NOTES

1. ALL CEMENT CONCRETE TO BE 4,000 PSI MINIMUM.
2. GALVANIZED STEEL GRATE SHALL BE BOLTED TO TOP OF STRUCTURE.
3. OUTLET PIPE SHALL NOT BE LESS THAN 12" MINIMUM.
4. ALL OPENINGS CAST IN AS REQUIRED.
5. PRECAST REINFORCED CONCRETE STRUCTURE TO MEET ASTM C-478 DESIGNATION AND H-20 LOADING.

OUTLET STRUCTURE #16 AT WET POND #3

NOT TO SCALE

(AUGUST 2011)



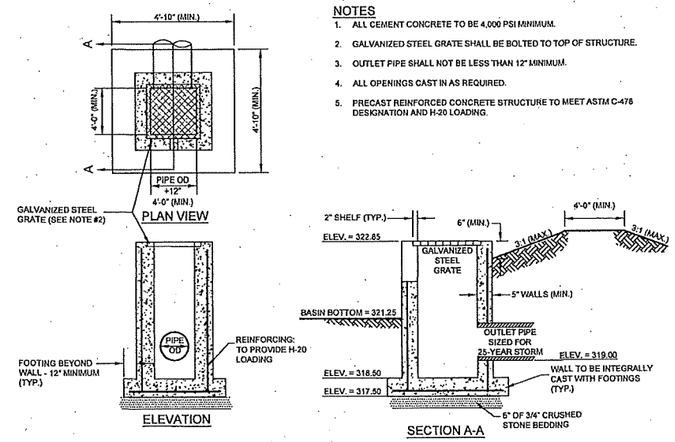
NOTES

1. ALL CEMENT CONCRETE TO BE 4,000 PSI MINIMUM.
2. GALVANIZED STEEL GRATE SHALL BE BOLTED TO TOP OF STRUCTURE.
3. OUTLET PIPE SHALL NOT BE LESS THAN 12" MINIMUM.
4. ALL OPENINGS CAST IN AS REQUIRED.
5. PRECAST REINFORCED CONCRETE STRUCTURE TO MEET ASTM C-478 DESIGNATION AND H-20 LOADING.

OUTLET STRUCTURE #44 AT WET POND #4

NOT TO SCALE

(AUGUST 2011)



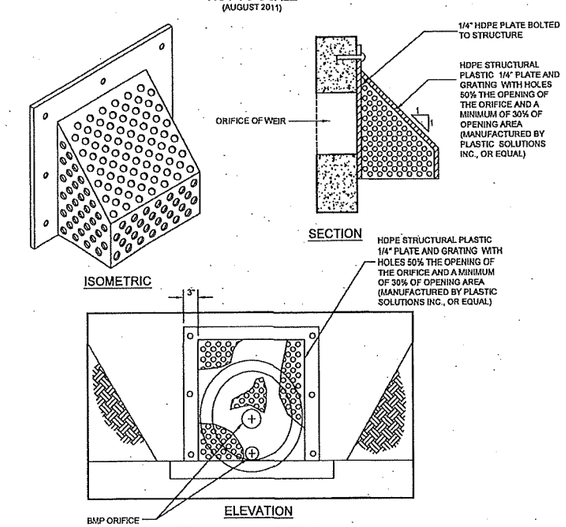
NOTES

1. ALL CEMENT CONCRETE TO BE 4,000 PSI MINIMUM.
2. GALVANIZED STEEL GRATE SHALL BE BOLTED TO TOP OF STRUCTURE.
3. OUTLET PIPE SHALL NOT BE LESS THAN 12" MINIMUM.
4. ALL OPENINGS CAST IN AS REQUIRED.
5. PRECAST REINFORCED CONCRETE STRUCTURE TO MEET ASTM C-478 DESIGNATION AND H-20 LOADING.

OUTLET STRUCTURE #18 AT INFILTRATION POND

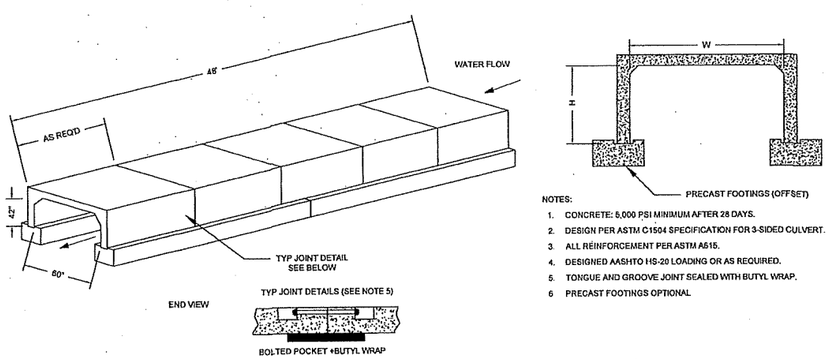
NOT TO SCALE

(AUGUST 2011)



TRASH RACK DETAIL

NOT TO SCALE

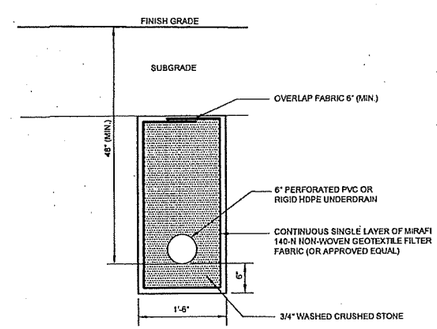


NOTES:

1. CONCRETE: 6,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN PER ASTM C1504 SPECIFICATION FOR 3-SIDED CULVERT.
3. ALL REINFORCEMENT PER ASTM A615.
4. DESIGNED AASHTO HS-20 LOADING OR AS REQUIRED.
5. TONGUE AND GROOVE JOINT SEALED WITH BUTYL WRAP.
6. PRECAST FOOTINGS OPTIONAL

PRECAST OPEN BOTTOM BOX CULVERT DETAIL

NOT TO SCALE



PIPE UNDERDRAIN

NOT TO SCALE

(MARCH 2008)

CONSTRUCTION DETAILS

THE Q AT MILFORD

MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:	OWNER/APPLICANT:
SALT CREEK PROPERTIES, LLC PO BOX 967 AMHERST, NH 03031 H.C.R.D. BK. 8420 PG. 1596	TM BOLDUC HOLDINGS, LLC 131 BURKE STREET, SUITE A NASHUA, NH 03060

KNA KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

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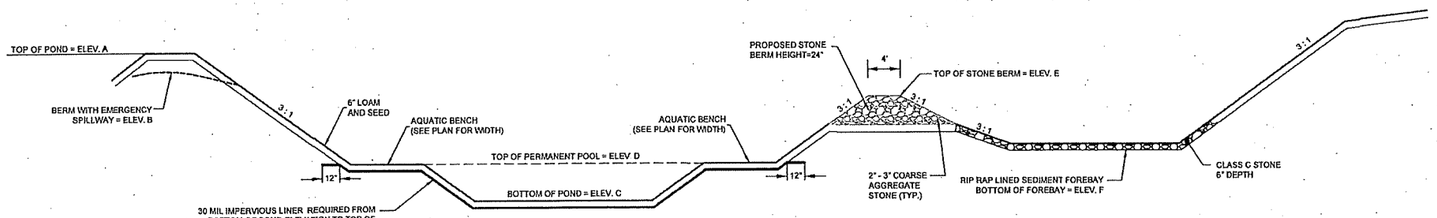
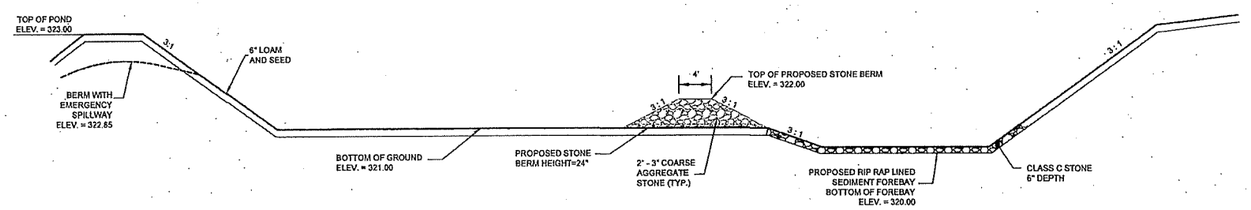
DATE: FEBRUARY 9, 2023	SCALE: AS NOTED
PROJECT NO: 21-1216-1	SHEET 40 OF 45



TYPICAL WET POND SECTION

NOT TO SCALE

POND NUMBER	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F
WET EXTENDED DETENTION POND #1	298.00	N/A	290.00	293.00	294.50	292.50
WET EXTENDED DETENTION POND #2	326.00	325.90	320.00	323.00	325.00	323.00
WET EXTENDED DETENTION POND #3	320.00	319.65	312.00	315.00	319.00	317.00
WET EXTENDED DETENTION POND #4	329.50	329.30	318.00	321.00	328.00	326.00



TYPICAL INFILTRATION POND SECTION - WITH FOREBAY

NOT TO SCALE

MAINTENANCE REQUIREMENTS:

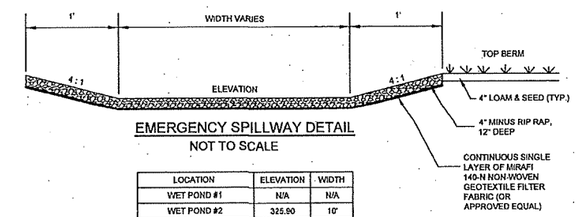
SEDIMENT FOREBAYS:
- INSPECT AT LEAST TWICE ANNUALLY;
- CONDUCT PERIODIC MOWING OF EMBANKMENTS (GENERALLY TWO TIMES PER YEAR) TO CONTROL GROWTH OF WOODY VEGETATION ON EMBANKMENTS;
- REMOVE DEBRIS FROM OUTLET STRUCTURES AT LEAST ONCE ANNUALLY;
- REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION;
- INSTALL AND MAINTAIN A STAFF GAGE OR OTHER MEASURING DEVICE, TO INDICATE DEPTH OF SEDIMENT ACCUMULATION AND LEVEL AT WHICH CLEAN-OUT IS REQUIRED.

INFILTRATION POND:
- REMOVAL OF DEBRIS FROM INLET AND OUTLET STRUCTURES;
- REMOVAL OF ACCUMULATED SEDIMENT;
- INSPECTION AND REPAIR OF OUTLET STRUCTURES AND APPURTENANCES;
- INSPECTION OF INFILTRATION COMPONENTS AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION;
- INSPECTION OF PRETREATMENT MEASURES AT LEAST TWICE ANNUALLY, AND REMOVAL OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY;
- PERIODIC MOWING OF EMBANKMENTS;
- REMOVAL OF WOODY VEGETATION FROM EMBANKMENTS;
- INSPECTION AND REPAIR OF EMBANKMENTS AND SPILLWAYS;
- IF AN INFILTRATION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE INFILTRATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE INFILTRATION TRENCH.
- THE BOTTOMS, INTERIOR AND EXTERIOR SIDE SLOPES AND CREST OF EARTHEN DETENTION BASINS SHOULD BE MOWED, AND THE VEGETATION MAINTAINED IN HEALTHY CONDITION, AS APPROPRIATE TO THE FUNCTION OF THE FACILITY AND TYPE OF VEGETATION.
- VEGETATED EMBANKMENTS THAT SERVE AS "BERMS" OR "DAMS" THAT IMPOUND WATER SHOULD BE MOWED AT LEAST ONCE ANNUALLY TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION;
- INLET AND OUTLET PIPES, INLET AND OUTLET STRUCTURES, ENERGY DISSIPATION STRUCTURES OR PRACTICES AND OTHER STRUCTURAL APPURTENANCES SHOULD BE INSPECTED AT LEAST ANNUALLY BY A QUALIFIED PROFESSIONAL AND CORRECTIVE ACTION IMPLEMENTED (EG. MAINTENANCE, REPAIRS OR REPLACEMENT) AS INDICATED BY SUCH INSPECTION;
- TRASH AND DEBRIS SHOULD BE REMOVED FROM THE BASIN AND ANY INLET OR OUTLET STRUCTURES WHENEVER OBSERVED BY INSPECTION;
- ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT SIGNIFICANTLY AFFECTS BASIN CAPACITY.

WET EXTENDED DETENTION PONDS:
- THE BOTTOMS, INTERIOR AND EXTERIOR SIDE SLOPES AND CREST OF EARTHEN DETENTION BASINS SHOULD BE MOWED, AND THE VEGETATION MAINTAINED IN HEALTHY CONDITION, AS APPROPRIATE TO THE FUNCTION OF THE FACILITY AND TYPE OF VEGETATION.
- VEGETATED EMBANKMENTS THAT SERVE AS "BERMS" OR "DAMS" THAT IMPOUND WATER SHOULD BE MOWED AT LEAST ONCE ANNUALLY TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION;
- INLET AND OUTLET PIPES, INLET AND OUTLET STRUCTURES, ENERGY DISSIPATION STRUCTURES OR PRACTICES AND OTHER STRUCTURAL APPURTENANCES SHOULD BE INSPECTED AT LEAST ANNUALLY BY A QUALIFIED PROFESSIONAL AND CORRECTIVE ACTION IMPLEMENTED (EG. MAINTENANCE, REPAIRS OR REPLACEMENT) AS INDICATED BY SUCH INSPECTION;
- TRASH AND DEBRIS SHOULD BE REMOVED FROM THE BASIN AND ANY INLET OR OUTLET STRUCTURES WHENEVER OBSERVED BY INSPECTION;
- ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT SIGNIFICANTLY AFFECTS BASIN CAPACITY.

CONSTRUCTION PRACTICE REQUIREMENTS:

1. STORMWATER PONDS, INFILTRATION BASINS, AND SWALES MUST BE INSTALLED BEFORE ROUGH GRADING TO SITE.
2. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP's ARE STABILIZED.
3. STORMWATER PONDS, INFILTRATION BASINS, AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
4. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
5. AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
6. DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
7. INFILTRATION BASIN FLOOR PREPARATION WILL INCLUDE GRASS TURF THAT CAN BE INUNDATED FOR UP TO 72 HOURS.
8. INFILTRATION AREAS ARE TO BE PROTECTED FROM OVER-COMPACTION DURING CONSTRUCTION.
9. AN IMPERVIOUS LINER SHALL BE REQUIRED FOR THE POCKET POND UNLESS DETERMINED OTHERWISE BY THE DESIGN ENGINEER DURING CONSTRUCTION WHEN THE POND IS AT SUBGRADE, AND IS EITHER MORE THAN 5 FEET BELOW SEASONAL HIGH WATER TABLE AND/OR IN COMPLETE LEDGE.



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

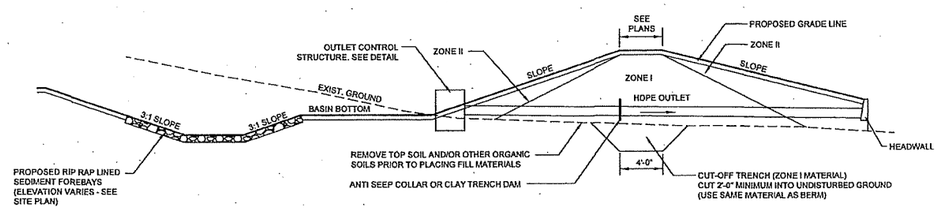
LOCATION	ELEVATION	WIDTH
WET POND #1	N/A	N/A
WET POND #2	325.90	10'
WET POND #3	319.65	10'
WET POND #4	329.30	10'
INFILTRATION POND	322.85	5'

BEST MANAGEMENT PRACTICES FOR BLASTING

IF MORE THAN 5000 CUBIC YARDS ARE BLASTED:
IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.

BEST MANAGEMENT PRACTICES FOR BLASTING.
ALL ACTIVITIES RELATED TO BLASTING SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT CONTAMINATION OF GROUNDWATER INCLUDING PREPARING, REVIEWING AND FOLLOWING AN APPROVED BLASTING PLAN; PROPER DRILLING, EXPLOSIVE HANDING AND LOADING PROCEDURES; OBSERVING THE ENTIRE BLASTING PROCEDURES; EVALUATING BLASTING PERFORMANCE; AND HANDLING AND STORAGE OF BLASTED ROCK.

(1) LOADING PRACTICES.
THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
(A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
(B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF SITE DISPOSAL.
(C) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF SITE DISPOSAL.
(D) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
(E) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
(F) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE HEED TO BE ATTENDED TO.
(2) EXPLOSIVE SELECTION.
THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
(A) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
(B) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
(3) PREVENTION OF MISFIRES.
APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
(4) MUCK PILE MANAGEMENT.
MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
(A) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
(B) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
(5) SPILL PREVENTION MEASURES AND SPILL MITIGATION.
PILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
(A) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
1. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE.
2. SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY.
3. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY.
4. INSPECT STORAGE AREAS WEEKLY.
5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS.
6. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS.
7. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
(B) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
1. EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED.
2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS.
3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS.
4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES.
5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
(C) THE TRAINING OF ON SITE EMPLOYEES AND THE ON SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
(D) FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGS-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT.



STORMWATER PONDS CONSTRUCTION SEQUENCE

1. CONTRACTOR TO NOTIFY DIG-SAFE 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CUT AND CLEAR TREES AND BRUSH FROM CONSTRUCTION AREAS TO THE EXTENT NECESSARY. ALL BRANCHES, TOPS AND BRUSH TO BE PROPERLY DISPOSED OF BY CONTRACTOR.
3. PRIOR TO GRUBBING OF CLEARED AREAS, ALL SILTATION BARRIERS DESIGNED FOR USE AS TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED AS CALLED FOR ON PROJECT PLANS.
4. COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR DEBRIS SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR. ORGANIC MATERIAL SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED IN UPLAND AREAS. ALL STOCKPILES SHALL BE SEEDED WITH WINTER RYE AND, IF NECESSARY, SURROUNDED WITH HAY BALES IN ORDER TO PREVENT LOSS DUE TO EROSION.
5. CONSTRUCT TEMPORARY CULVERTS AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. ALL SUCH CROSSINGS SHALL BE PROTECTED WITH HAY BALE BARRIERS TO LIMIT EROSION.
6. CONSTRUCT CUT-OFF TRENCH (PART OF ZONE I).
7. CONSTRUCT OUTLET AND OVERFLOW STRUCTURE, CULVERT, ANTI SEEP COLLARS, HEADWALL, AND RIP RAP OUTLET PROTECTION AS SHOWN ON PLANS.
8. CONSTRUCT ZONE I PORTION OF EARTH EMBANKMENT.
9. CONSTRUCT ZONE II PORTION OF EARTH EMBANKMENT.
10. APPLY TOPSOIL TO SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED SO AS TO BE FREE OF ROOTS, BRANCHES, STONES, AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF A 4-INCH COMPACTED THICKNESS. UPON COMPLETION OF TOPSOILING, FINISHED SECTIONS ARE TO BE LIMED, SEEDED AND MULCHED. CONSTRUCTION PERSONNEL SHALL INSPECT COMPLETED SECTIONS OF WORK ON A REGULAR BASIS AND REMEDY ANY PROBLEM AREAS UNTIL A HEALTHY STAND OF GRASS HAS BECOME ESTABLISHED.
11. MAINTAIN, REPAIR, AND REPLACE AS NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE CONSTRUCTION AREA HAS BEEN STABILIZED (A MINIMUM OF ONE WINTER SHALL HAVE PASSED).
12. AFTER STABILIZATION, REMOVE AND SUITABLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES.
13. MONITOR CONSTRUCTION ACTIVITIES TO INSURE CONSTRUCTION ACTIVITIES ARE BEING PERFORMED IN SUCH A WAY AS NOT TO ENDANGER THE INTEGRITY OF EARTH EMBANKMENTS, STORMWATER CONTROL STRUCTURE, CULVERT AND RIP RAP OUTLET PROTECTION.

STORMWATER POND BASIN EMBANKMENT DETAIL

MATERIAL TYPE/SPECIFICATIONS

ZONE I

WELL GRADED MIXTURE OF GRAVEL, SAND, SILT OR CLAY WITH MAX. 6-INCH
SIZE STONE AND GEADATION AS INDICATED BELOW. PLACE IN MAX. 12-INCH
THICK LIFTS TO 95% OF MAX. DRY DENSITY IN ACCORDANCE WITH ASTM D1557.
SCARIFY SURFACE PRIOR TO PLACING SUBSEQUENT LIFT. IN ADDITION, REMOVE ORGANIC SOILS.

SIEVE SIZE	PERCENT BY WEIGHT PASSING
6-INCH	100
NO. 4	50 TO 100
NO. 40	30 TO 70
NO. 200	20 TO 40

ZONE II

DRAINAGE LAYER: PLACE IN MAX. 12-INCH THICK LIFTS TO 95% OF MAX. DRY
DENSITY IN ACCORDANCE WITH ASTM D1557.

SIEVE SIZE	PERCENT BY WEIGHT PASSING
1-INCH	100
NO. 4	70-100
NO. 200	0-12 (IN SAND PORTION ONLY)

CONSTRUCTION DETAILS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

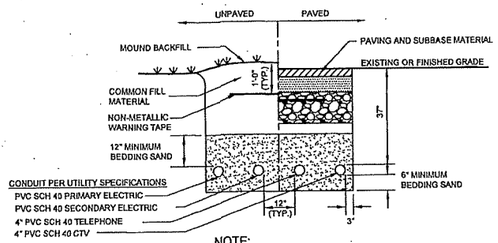
KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

REVISIONS

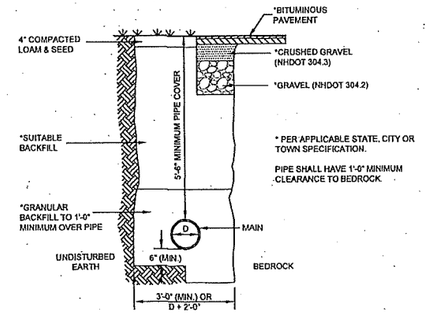
No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: AS NOTED
PROJECT NO: 21-1216-1 | SHEET 41 OF 45

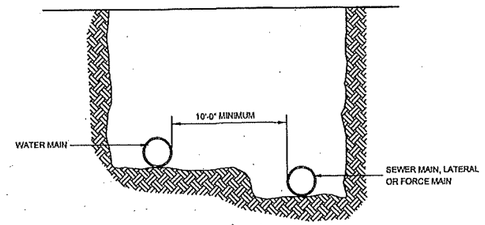


NOTE:
INSTALLATION AND MATERIALS OF UNDERGROUND UTILITIES SHALL CONFORM TO LOCAL UTILITY COMPANY SPECIFICATIONS.

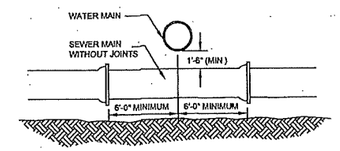
UTILITY TRENCH DETAIL
NOT TO SCALE
(MARCH 2008)



WATER LINE TRENCH DETAIL
NOT TO SCALE
(MARCH 2008)



PARALLEL INSTALLATION

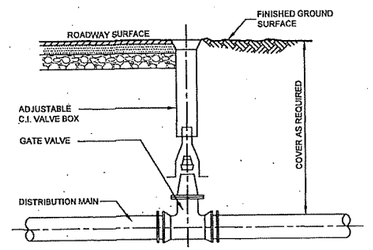


MAIN CROSSINGS

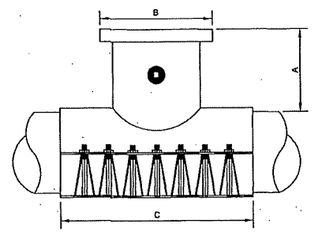
WATER PIPE/SEWER PIPE SEPARATION
NOT TO SCALE
(MARCH 2008)

WATER MAIN PRESSURE AND LEAKAGE TESTING NOTES:

1. ALL WATER MAINS AND FIRE SERVICES SHALL BE SUBJECTED TO PRESSURE AND LEAKAGE TESTING IN ACCORDANCE WITH THE LATEST VERSION OF AWWA STANDARD C-600. ALLOWABLE LEAKAGE FOR EACH SECTION OF WATER MAIN TESTED SHALL BE COMPARED AGAINST THE CHART TITLED "ALLOWABLE LEAKAGE PER 1,000 FEET OF PIPELINE" CONTAINED WITHIN AWWA STANDARD C-600.
2. THE CONTRACTOR SHALL HIRE A TESTING COMPANY WHO IS ACCEPTABLE TO THE TOWN TO COMPLETE THE REQUIRED PRESSURE AND LEAKAGE TESTS. THE TESTER SHALL SUBMIT CERTIFIED LEAKAGE TESTING RESULTS IN WRITING TO THE TOWN FOR EACH SECTION OF MAIN TESTED. THE TOWN SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE PRIOR TO ANY PRESSURE AND LEAKAGE TESTING.
3. THE PIPE TO BE TESTED SHALL BE FILLED WITH WATER FROM THE TOWN OF MILFORD DISTRIBUTION SYSTEM AND ALL AIR SHALL BE EXPELLED FROM THE WATER MAIN THROUGH THE USE OF HYDRANTS, AIR RELEASES, SERVICES AND BLOWOFFS LOCATED AT THE HIGH POINTS. IF TEMPORARY AIR RELEASES ARE INSTALLED BY THE CONTRACTOR, THEY SHALL BE REMOVED AND PLUGGED WITH A BRASS PLUG UPON THE SUCCESSFUL COMPLETION OF THE PRESSURE TEST.
4. IF A SECTION OF MAIN FAILS PRESSURE AND LEAKAGE TESTING, THE CONTRACTOR SHALL LOCATE, UNCOVER AND REPAIR OR REPLACE THE DEFECTIVE SECTION OF PIPE, FITTING, VALVE OR JOINT. THE CONTRACTOR'S TESTER SHALL THEN CONDUCT ADDITIONAL PRESSURE AND LEAKAGE TESTING UNTIL SATISFACTORY TEST RESULTS ARE ACHIEVED

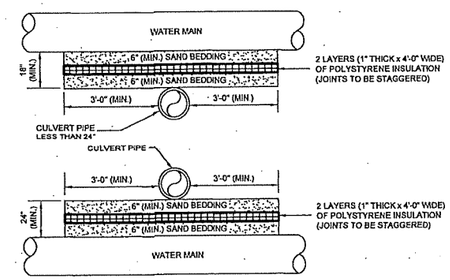


WATER AND GAS GATE VALVE
NOT TO SCALE
(MARCH 2008)



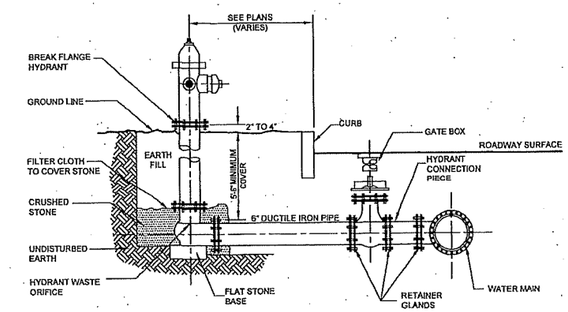
BRANCH SIZE	A	B	C	NUMBER OF BOLTS
4"	4"	5 1/32"	16"	10
6"*	4 1/2"	7 1/32"	16"	10
8"*	6"	9 1/32"	20"	14
10"	5 1/2"	11 1/32"	24"	16
12"**	6 1/2"	13 1/32"	30"	30

STAINLESS STEEL TAPPING SLEEVE DETAIL
NOT TO SCALE
(MARCH 2008)



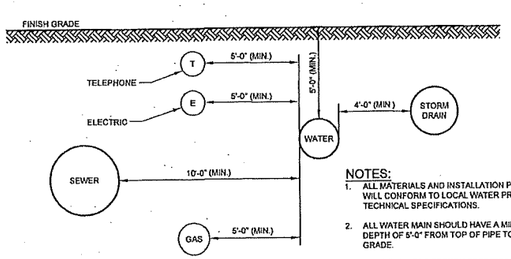
NOTES:
1. INSULATION TO BE USED WHERE PIPE SEPARATION IS 24" OR LESS.

WATER PIPE CROSSING INSULATION DETAIL
NOT TO SCALE
(JUNE 2012)



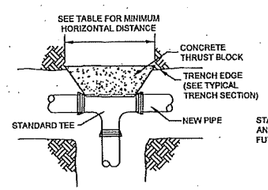
NOTE:
PROPER RESTRAINT REQUIRED THROUGHOUT TO FIX HYDRANT TO MAIN.

HYDRANT INSTALLATION
NOT TO SCALE
(MARCH 2008)

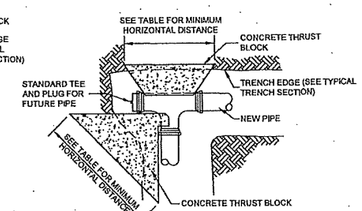


NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO LOCAL WATER PROVIDER'S TECHNICAL SPECIFICATIONS.
2. ALL WATER MAIN SHOULD HAVE A MINIMUM DEPTH OF 5'-0" FROM TOP OF PIPE TO FINISH GRADE.
3. SEE DETAIL FOR TRENCH SPECIFICATIONS.
4. SEE DETAIL FOR OUTSIDE SERVICE ENTRANCE SPECIFICATIONS.

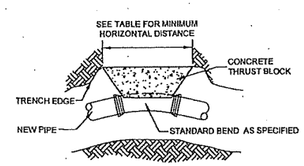
UTILITY SEPARATION (MAIN) DETAIL
(A-01)
NOT TO SCALE
(MARCH 2008)



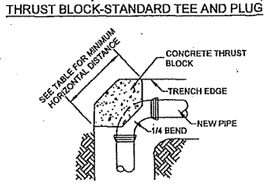
THRUST BLOCK-STANDARD TEE



THRUST BLOCK-STANDARD TEE AND PLUG



STANDARD BEND



90° BEND

THRUST BLOCK DETAIL
NOT TO SCALE
(MARCH 2008)

THRUST BLOCK TABLE

SIZE	TYPE	HORIZONTAL DISTANCE IN SAND OR GRAVEL	HORIZONTAL DISTANCE IN ROCK	VERTICAL DISTANCE
4"	TEE BRANCH	2'-0"	2'-0"	2'-0"
	90° BEND	2'-0"	2'-0"	2'-0"
	45° BEND	2'-0"	2'-0"	2'-0"
	22 1/2° BEND OR LESS	2'-0"	2'-0"	2'-0"
6"	TEE BRANCH	2'-0"	2'-0"	2'-0"
	90° BEND	2'-0"	2'-0"	2'-0"
	45° BEND	2'-0"	2'-0"	2'-0"
	22 1/2° BEND OR LESS	2'-0"	2'-0"	2'-0"
8"	TEE BRANCH	2'-6"	2'-0"	2'-6"
	90° BEND	3'-0"	2'-0"	2'-0"
	45° BEND	2'-6"	2'-0"	2'-0"
	22 1/2° BEND OR LESS	2'-0"	2'-0"	2'-0"
10"	TEE BRANCH	3'-0"	2'-0"	3'-0"
	90° BEND	3'-0"	2'-0"	3'-0"
	45° BEND	2'-6"	2'-0"	2'-6"
	22 1/2° BEND OR LESS	2'-0"	2'-0"	2'-0"
12"	TEE BRANCH	4'-0"	2'-0"	3'-0"
	90° BEND	4'-0"	3'-0"	4'-0"
	45° BEND	3'-6"	2'-0"	3'-0"
	22 1/2° BEND OR LESS	2'-0"	2'-0"	2'-0"
16"	TEE BRANCH	4'-0"	3'-0"	4'-6"
	90° BEND	5'-0"	4'-0"	5'-0"
	45° BEND	4'-0"	3'-0"	4'-0"
	22 1/2° BEND OR LESS	3'-0"	2'-0"	3'-0"
20"	TEE BRANCH	5'-0"	3'-0"	4'-0"
	90° BEND	6'-0"	4'-0"	5'-0"
	45° BEND	4'-6"	3'-0"	4'-6"
	22 1/2° BEND OR LESS	3'-0"	2'-0"	3'-0"

CONSTRUCTION DETAILS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

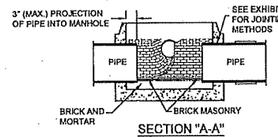
KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/15/23

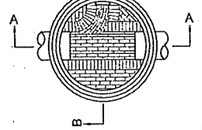
REVISIONS

No.	DATE	DESCRIPTION	BY

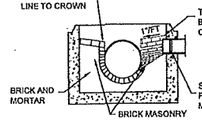
DATE: FEBRUARY 9, 2023 | SCALE: AS SHOWN
PROJECT NO: 21-1216-1 | SHEET 42 OF 45



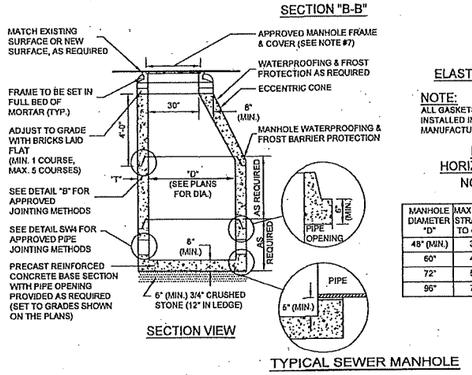
SECTION "A-A"



PLAN VIEW

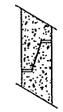


SECTION "B-B"



SECTION VIEW

TYPICAL SEWER MANHOLE



ELASTOMERIC SEALANT

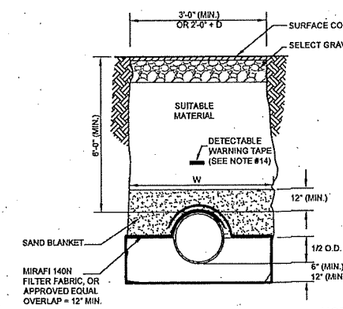
NOTE:
ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

DETAIL "B"
HORIZONTAL JOINTS
NOT TO SCALE

MANHOLE DIAMETER "D"	MAX. PIPE DIAMETER STRAIGHT THROUGH TO 45° DEFLECTION	WALL THICKNESS "T"
48" (MIN.)	30" OD (MAX.)	5" (MIN.)
60"	44" OD (MAX.)	6"
72"	51" OD (MAX.)	7"
96"	72" OD (MAX.)	9"

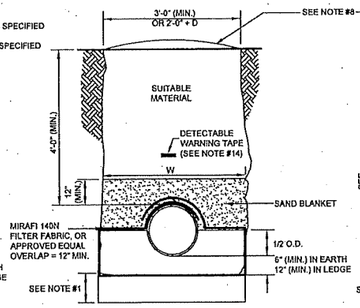
NOTES:
1. IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES SHALL BE AN ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT AND ADEQUATE JOINTING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND HS-20-44 LOADING, INCLUDING THE FRAME AND COVER.
2. SEWER MANHOLE DIAMETER SHALL BE AS INDICATED ON THE PLANS.
3. LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF BEDFORD AND NHDES REQUIREMENTS. INVERT AND SHELF TO BE PLACED AFTER PASSING THE LEAKAGE TEST.
4. CARE SHALL BE TAKEN TO ENSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. BASE SECTION TO BE FULL.
5. MANHOLE CHANNELS REQUIRING CHANGE IN ALIGNMENT ARE TO BE BUILT ON A SMOOTH RADIUS.
6. IN CROSS COUNTRY AREAS BEYOND ROADWAY RIGHT-OF-WAYS, THE MANHOLE FRAME ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE MANHOLE.
7. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30" CLEAR OPENING. 3" (MINIMUM HEIGHT) LETTERS WITH THE WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH MANHOLE COVER.

SANITARY SEWER MANHOLE NOTES: (NHDES ENV WQ700 - 2015)
1. ALL COMPONENT PARTS OF MANHOLE STRUCTURES SHALL HAVE THE STRENGTH, LEAK RESISTANCE AND SPACE NECESSARY FOR THE INTENDED SERVICE.
2. MANHOLE STRUCTURES SHALL HAVE A LIFE EXPECTANCY IN EXCESS OF 25 YEARS.
3. MANHOLE STRUCTURES SHALL BE DESIGNED TO WITHSTAND H-20 LOADING AND SHALL NOT LEAK IN EXCESS OF ONE GPD PER VERTICAL FOOT OF MANHOLE FOR THE LIFE OF THE STRUCTURE.
4. BARRELS, CONCRETE GRADE RINGS AND CONE SECTIONS SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE AND SHALL CONFORM TO ASTM C478.
5. BEDDING: CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33
   100% PASSING 1 INCH SCREEN
   60% PASSING 3/4 INCH SCREEN
   20-55% PASSING 3/8 INCH SCREEN
   0-10% PASSING #4 SIEVE
   0-5% PASSING #8 SIEVE
   WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.
6. BASE SECTIONS SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6 INCHES ABOVE THE CROWN OF THE INCOMING PIPE.
7. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF AN OVERLAPPING TYPE, SEALED FOR WATER-TIGHTNESS USING A DOUBLE ROW OF AN ELASTOMERIC OR MASTIC-LIKE SEALANT.
8. PIPE TO MANHOLE JOINTS SHALL BE AS FOLLOWS:
   A. ELASTOMERIC, RUBBER SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES;
   B. CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS;
   C. ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND
   D. NON-SHRINK GROUTED JOINTS WHERE WATERTIGHT BONDING TO THE MANHOLE AND PIPE CAN BE OBTAINED.
9. MANHOLE CONE SECTIONS SHALL BE ECCENTRIC IN SHAPE.
10. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL.
11. ALL PRECAST SECTIONS AND BASES SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING.
12. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.
13. MATERIALS OF CONSTRUCTION FOR MANHOLES SHALL BE AS FOLLOWS.
   A. CONCRETE FOR PRECAST BASES OR GRADE RINGS SHALL CONFORM TO THE REQUIREMENTS FOR CLASS AA CONCRETE IN THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATIONS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION";
   B. REINFORCING FOR PRECAST CONCRETE SHALL BE STEEL OR STRUCTURAL FIBERS THAT CONFORM TO THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATIONS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION";
   C. PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL BE CERTIFIED BY THEIR MANUFACTURE(S) AS CONFORM TO ASTM C478;
   D. THE MANHOLE FRAME AND COVER SHALL PROVIDE A 30-INCH DIAMETER CLEAR OPENING;
   E. THE MANHOLE COVER SHALL HAVE THE WORD "SEWER" IN 3-INCH LETTERS CAST INTO THE TOP SURFACE;
   F. THE CASTINGS SHALL BE OF EVEN-GRAINED CAST IRON, SMOOTH AND FREE FROM SCALE, LUMPS, BLISTERS, SAND HOLES AND DEFECTS;
   G. CONTACT SURFACES OF COVERS AND FRAMES SHALL BE MACHINED AT THE FOUNDRY TO PREVENT ROCKING OF COVERS IN ANY ORIENTATION;
   H. CASTINGS SHALL BE EQUAL TO CLASS 30, BE CERTIFIED BY THEIR MANUFACTURE(S) AS CONFORMING TO ASTM A48/48M.
   I. BRICK MASONRY FOR SHELF, INVERT AND GRADE ADJUSTMENT SHALL BE CERTIFIED BY THEIR MANUFACTURE(S) AS CONFORMING TO ASTM C32, CLAY OR SHALE, FOR GRADE SS HARD BRICK;
   J. MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION;
   K. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE:
      1. 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR
      2. 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PARTS HYDRATED LIME;
   L. CEMENT SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150/C150M;
   M. HYDRATED LIME SHALL BE TYPE S CONFORMING TO THE ASTM C207 "STANDARD SPECIFICATIONS FOR HYDRATED LIME FOR MASONRY PURPOSES";
   N. SAND SHALL CONSIST OF INERT NATURAL SAND CONFORMING TO THE ASTM C33 "STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES";
   O. CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION";
   P. SUBJECT TO (O) BELOW, A FLEXIBLE PIPE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES FROM ANY MANHOLE CONNECTION:
      1. WITHIN 48-INCHES FOR REINFORCED CONCRETE (RC) PIPE; AND
      2. WITHIN 60-INCHES FOR PVC PIPE LARGER THAN 15-INCH DIAMETER;
   Q. NO FLEXIBLE JOINT SHALL BE REQUIRED FOR D.I. PIPE OR FOR PVC PIPE UP THROUGH 15-INCH DIAMETER; AND
   R. WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED IN LIEU OF A CONE SECTION, PROVIDED THE SLAB HAS AN ECCENTRIC ENTRANCE OPENING AND IS CAPABLE OF SUPPORTING H-20 LOADS.
14. MANHOLE TESTING:
   A. MANHOLES SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST.
   B. THE MANHOLE VACUUM TEST SHALL CONFORM TO THE FOLLOWING:
      1. THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 10 INCHES Hg; AND
      2. THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 1-INCH Hg PRESSURE DROP TO 9 INCH Hg SHALL BE:
         a. NOT LESS THAN 2 MINUTES FOR MANHOLES LESS THAN 10 FEET DEEP IN DEPTH;
         b. NOT LESS THAN 2.5 MINUTES FOR MANHOLES 10 TO 15 FEET DEEP; AND
         c. NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP.
   C. THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE LIMITS SPECIFIED IN (B) ABOVE.
   D. INVERTS AND SHELVES SHALL NOT BE INSTALLED UNTIL AFTER SUCCESSFUL TESTING IS COMPLETED.
   E. FOLLOWING COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE PLACED ON THE TOP OF THE MANHOLE OR SOME OTHER MEANS USED TO PREVENT ACCIDENTAL ENTRY BY UNAUTHORIZED PERSONS, CHILDREN OR ANIMALS UNTIL THE CONTRACTOR IS READY TO MAKE FINAL ADJUSTMENTS TO GRADE.

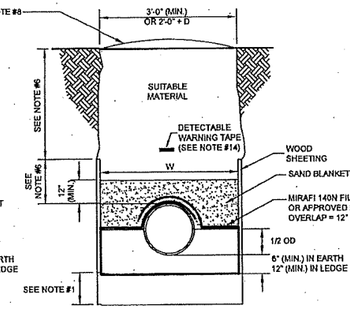


FOR CONSTRUCTION IN ROADS, ROAD SHOULDER AND WALKWAYS

NOTE:
MINIMUM BEDDING DEPTH AND MAXIMUM PAYMENT DEPTH FOR LEDGE EXCAVATION: 1/4 O.D. (6" MIN.)



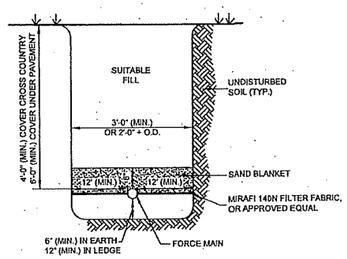
CROSS COUNTRY EARTH CONSTRUCTION



CROSS COUNTRY EARTH CONSTRUCTION WITH SHEETING

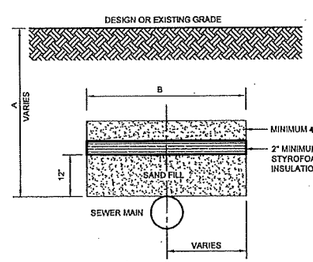
SANITARY SEWER TRENCH DETAIL
NOT TO SCALE
(NOVEMBER 2016)

NOTES:
1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL, ALSO SEE NOTE #7.
   BEDDING: CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33/C33M STONE SIZE NO. 67.
   100% PASSING 1 INCH SCREEN
   90 - 100% PASSING 3/4 INCH SCREEN
   20 - 55% PASSING 3/8 INCH SCREEN
   0 - 10% PASSING # 4 SIEVE
   0 - 5% PASSING # 8 SIEVE
   WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED CRUSHED STONE 1/2 INCH TO 1-1/2 INCHES SHALL BE USED.
2. SAND BLANKET: GRADED CLEAN SAND FREE FROM ORGANIC MATTER, SO THAT 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A # 200 SIEVE. BLANKET MAY BE OMITTED FOR CAST IRON, DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED, HOWEVER, THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE PIPE.
3. MIRAFI 140 N FILTER FABRIC, OR APPROVED EQUAL, SHALL BE INSTALLED ABOVE PIPE.
4. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY. ALL EXCAVATED LEDGE MATERIAL AND ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION, OR ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
   IN CROSS COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER WILL BE PRESERVED FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WHEN NECESSARY.
5. BASE COURSE, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS."
6. WOOD SHEETING, IF REQUIRED, WHERE PLACED ALONGSIDE THE PIPE AND EXTENDING BELOW MID-DIAMETER, SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
9. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES DESIGN STANDARDS REQUIRE 10 FEET OF SEPARATION BETWEEN WATER AND SEWER. HOWEVER, SHOULD CONSTRUCTION REVEAL OR EXPOSE A WATERLINE (MAIN OR SERVICE) RUNNING APPROXIMATELY PARALLEL AND LESS THAN 10 FEET HORIZONTALLY FROM THE PROPOSED SEWER INSTALLATION AND WHERE IT IS NOT PRACTICAL TO RELOCATE THE SEWER, A DEVIATION MAY BE GRANTED PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENT SPECIFIED BELOW.
   A. FORCE MAINS SHALL BE CONSTRUCTED FROM DUCTILE IRON, HIGH DENSITY POLYETHYLENE, OR PVC PER ENV-WQ 704.06(a).
      PVC SHALL CONFORM TO ASTM D2241-05 OR ASTM D1785-05
      HDPE SHALL CONFORM TO ASTM D3035-03a
      D.I. SHALL BE CORROSION PROTECTED IN CORROSIVE ENVIRONMENTS
10. WHERE WATER LINES AND SEWER LINES CROSS, THEY SHOULD CROSS AS PERPENDICULAR AS POSSIBLE AND THE WATER MAIN SHALL CROSS AT LEAST 18" INCHES ABOVE THE SEWER. FURTHER, THE SEWER JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.
11. ALL SEWERS AT 8 PERCENT SLOPE, OR GREATER, SHALL HAVE IMPERVIOUS TRENCH DAMS CONSTRUCTED EVERY 300 FEET.
12. UNLESS OTHERWISE NOTED, ALL GRANULAR MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR TEST.
13. WHERE WATER MAINS CROSS UNDER SEWER MAINS, BOTH THE SEWER AND WATER MAINS SHALL BE PRESSURE RATED PIPE PER ENV-WQ 704.06 AND TESTED PER AWWA C600-05 AT 1.5 TIMES DESIGN PRESSURE OR 100 PSI, WHICHEVER IS GREATER, WITH NO JOINTS WITHIN 9 FEET OF THE CROSSING POINT AND 18" MINIMUM VERTICAL SEPARATION.
14. ALL SEWERS SHALL BE MARKED USING METAL IMPREGNATED MARKING TAPE OR TRACER WIRE THAT CAN BE LOCATED USING METAL DETECTION EQUIPMENT.
15. GRAVITY PIPE SEWER TESTING:
   A. ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.
   B. LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH:
      1. ASTM F1417-92(2005) "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR;" OR
      2. UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE" (1998).
   C. ALL NEW GRAVITY SEWERS SHALL BE CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER AND SHALL BE TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE.
   D. ALL PLASTIC SEWER PIPE SHALL BE DEFLECTION TESTED NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION.
   E. THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5 PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95 PERCENT OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.



NOTES:
1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL, ALSO SEE NOTE #7.
   BEDDING: CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33/C33M STONE SIZE NO. 67.
   100% PASSING 1 INCH SCREEN
   90 - 100% PASSING 3/4 INCH SCREEN
   20 - 55% PASSING 3/8 INCH SCREEN
   0 - 10% PASSING # 4 SIEVE
   0 - 5% PASSING # 8 SIEVE
   WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED CRUSHED STONE 1/2 INCH TO 1-1/2 INCHES SHALL BE USED.
2. SAND BLANKET: GRADED CLEAN SAND FREE FROM ORGANIC MATTER, SO THAT 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A # 200 SIEVE. BLANKET MAY BE OMITTED FOR CAST IRON, DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED, HOWEVER, THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE PIPE.
3. MIRAFI 140 N FILTER FABRIC, OR APPROVED EQUAL, SHALL BE INSTALLED ABOVE PIPE.
4. SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY. ALL EXCAVATED LEDGE MATERIAL AND ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION, OR ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.
   IN CROSS COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER WILL BE PRESERVED FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WHEN NECESSARY.

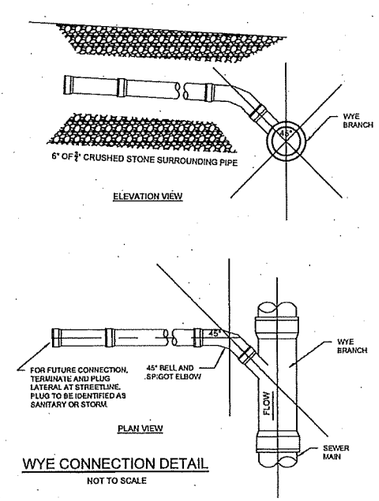
SEWER FORCE MAIN/PRESSURE SEWER TRENCH DETAIL
NOT TO SCALE
(JUNE 2015)



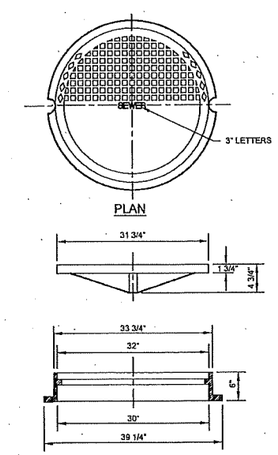
NOTE:
PIPE SHALL BE CENTERED UNDER INSULATION UNLESS OTHERWISE SPECIFIED.

COVER OVER PIPE - A	WIDTH OF INSULATING BOARD - B
2'-0"	11'-0"
3'-0"	9'-0"
4'-0"	7'-0"
5'-0"	5'-0"
6'-0"	3'-0"

SEWER MAIN INSULATION DETAIL
NOT TO SCALE
(AUGUST 2011)



WYE CONNECTION DETAIL
NOT TO SCALE



NOTES:
NEW HAMPSHIRE MAINTAINS A CLEAR OPENING DESIGNATION OF 30" FOR ITS MANHOLE CASTINGS.

FEATURES:
- 3" LETTERING
- COVERS MARKED SEWER
- NONROCKING COVER
- DIAMOND SURFACE DESIGN

SPECIFICATIONS
- FULLY MACHINED FRAME AND COVER
- H-20 LOAD RATED
- GRAY CAST IRON MEETS ASTM A48 CLASS 30

SEWER MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE
(MARCH 2008)

CONSTRUCTION DETAILS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
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2/15/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: AS SHOWN
PROJECT NO: 21-1216-1 | SHEET 43 OF 45

TURF ESTABLISHMENT SCHEDULE

PURPOSE:

TO ESTABLISH AND MAINTAIN PERMANENT AND TEMPORARY TURF AREAS, RESTORE GROWTH TO EXISTING TURF AREAS DISTURBED DURING CONSTRUCTION AND CONTROL SOIL EROSION.

PREPARATION AND EXECUTION:

1. RAKE THE SUBGRADE OF ALL AREAS TO BE LOAMED AND SEEDED TO REMOVE RUBBISH, STICKS, ROOTS AND STONES LARGER THAN 1 INCH.
2. PLACE LOAM OVER AREAS TO BE SEEDED AND SPREAD.
3. FINE GRADE SURFACE AND SUPPLEMENT WITH SUITABLE LOAM WHERE NEEDED TO CREATE A UNIFORM SURFACE ACCORDING TO THE FINISH GRADES INDICATED; TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED. NO LOAM SHALL BE SPREAD IF THE SUBGRADE IS EXCESSIVELY WET OR FROZEN.
4. APPLY LIME EVENLY OVER LOAM SURFACE AND THOROUGHLY INCORPORATE LIME INTO THE LOAM BY HEAVY RAKING TO AT LEAST ONE-HALF THE DEPTH OF THE LOAM.
5. APPLY NO PHOSPHATE, SLOW RELEASE FERTILIZER AND MIX WITH THE UPPER 2 INCHES OF LOAM.
6. DETERMINE APPROPRIATE MIXTURE FOR AREA TO BE SEEDED BASED ON EXAMINATION OF PROJECT PLANS. UNIFORMLY SPREAD THE SEED BY BROADCASTING OR HYDROSEEDING. IF BROADCASTING, LIGHTLY RAKE INTO THE PREPARED SURFACE AND ROLL. IF, HYDROSEEDING, USE 4 TIMES THE RECOMMENDED RATE OF INOCULANT. AFTER SEED IS SPREAD, WATER THOROUGHLY WITH A FINE SPRAY.
7. SEEDING FOR PERMANENT COVER SHALL OCCUR BETWEEN SEPTEMBER 15 AND OCTOBER 15 AND BETWEEN APRIL 15 AND JUNE 15. SEEDING SHALL NOT BE DONE DURING WINDY WEATHER, WHEN THE GROUND IS FROZEN OR EXCESSIVELY WET OR OTHERWISE UNTILLABLE.
8. WITHIN 24 HOURS AFTER SEEDING OPERATION, UNIFORMLY MULCH THE AREA WITH STRAW. ANCHOR MULCH ON ALL SLOPES EXCEEDING 3 : 1 USING MULCH NETTING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER.
9. PROTECT AND PREVENT AGAINST WASHOUTS, ANY WASHOUTS WHICH OCCUR SHALL BE PROMPTLY REGRADED AND RESEEDED.
10. WHEN IT IS IMPRACTICAL TO ESTABLISH PERMANENT GROWTH ON DISTURBED EARTH BY OCTOBER 15, A TEMPORARY SEED MIXTURE SHALL BE USED. WHEN TEMPORARY SEEDING CANNOT ESTABLISH VISIBLE GROWTH, THE DISTURBED AREA SHALL BE COVERED WITH SIX INCHES OF MULCH FOR THE WINTER.

MAINTENANCE:

ALL SEEDED AREAS SHALL BE KEPT WATERED AND IN GOOD CONDITION. RESEED AS NECESSARY TO ESTABLISH HEALTHY UNIFORM GROWTH OVER THE ENTIRE SEEDED AREA. MAINTAIN SEEDED AREAS IN AN APPROVED CONDITION UNTIL FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE REPAIRS FOR DAMAGE CAUSED BY EROSION.

APPLICATION RATES:

1. LOAM SHALL BE APPLIED AT A MINIMUM COMPACTED THICKNESS OF 4 INCHES.
2. LIME SHALL BE APPLIED AT A RATE OF 75 TO 100 POUNDS PER 1,000 S.F.
3. FERTILIZER SHALL BE APPLIED AT A RATE OF 30 POUNDS PER 1,000 S.F. IT IS RECOMMENDED THAT THE SOIL BE TESTED PRIOR TO APPLYING ANY FERTILIZERS TO DETERMINE WHAT LEVELS AND RATES ARE NECESSARY.
4. SEED MIXTURE FOR LAWN AREAS SHALL BE APPLIED AT A RATE OF AT LEAST 80 POUNDS PER ACRE OR 2 POUNDS PER 1,000 S.F.
5. TEMPORARY SEED MIXTURE SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1,000 S.F.
6. SEED MIXTURE FOR SLOPE AREAS SHALL BE APPLIED AT A RATE OF 80 POUNDS PER ACRE OR 2 POUNDS PER 1,000 S.F.
7. SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS SHALL BE APPLIED AT A RATE OF 70 POUNDS PER ACRE OR 1.6 POUNDS PER 1,000 S.F.
8. MULCH SHALL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 S.F.

MATERIALS:

1. LOAM USED FOR TOPSOIL SHALL BE FRIABLE, FERTILE, NATURAL FREE-DRAINING LOAM, FREE OF ROOTS, GRASS, STICKS, WEEDS, CLAY, SOD LUMPS, DEBRIS AND STONES LARGER THAN 1 INCH IN ANY DIMENSION. SOIL SHALL NOT BE EXCESSIVELY ACID OR ALKALINE AND CONTAIN NO TOXIC MATERIALS.
2. LIME SHALL BE GROUND LIMESTONE CONTAINING NO LESS THAN 95% CALCIUM AND MAGNESIUM CARBONATES.
3. FERTILIZER SHALL BE NO PHOSPHORUS, SLOW RELEASE.
4. SEED MIXTURE FOR LAWN AREAS SHALL BE 99% PURE LIVE SEED AND CONSIST OF THE FOLLOWING:
   - 25% CREEPING RED FESCUE
   - 25% KENTUCKY BLUEGRASS
   - 25% REDTOP
   - 25% MANHATTAN PERENNIAL RYEGRASS
5. TEMPORARY SEEDING MIXTURE SHALL BE AN APPROVED CONSERVATION MIX OR CONSIST OF THE FOLLOWING.
   - 15% BLACKWELL OR SHELTER SWITCHGRASS
   - 30% NIAGRA OR KAW BIG BLUESTEM
   - 30% CAMPER OR BLAZE LITTLESTEM
   - 15% NE-27 OR BLAZE SAND LOVEGRASS
   - 10% VIKING BIRDSFOOT TREFOIL
   - INOCULUM SPECIFIC TO BIRDSFOOT TREFOIL MUST BE USED WITH THIS MIXTURE. IF SEEDING BY HAND, A STICKING AGENT SHALL BE USED. IF SEEDING WITH A HYDROSEEDER, USE FOUR TIMES THE RECOMMENDED AMOUNT OF INOCULUM.
6. SEED MIXTURE FOR SLOPE AREAS SHALL BE 99% PURE LIVE SEED AND SHALL CONSIST OF THE FOLLOWING:
   - 30% CREEPING RED FESCUE
   - 40% PERENNIAL RYE GRASS
   - 15% REDTOP
   - 15% BIRDSFOOT TREFOIL
   - *IN ADDITION TO THE MIX SPECIFIED ABOVE, CROWN VETCH SHALL BE USED ON ALL SLOPES STEEPER THAN 3 : 1. CROWN VETCH SHALL BE APPLIED AT A RATE OF 10 POUNDS PER ACRE AND INOCULUM SPECIFIC TO CROWN VETCH MUST BE USED.
7. SEED MIXTURE FOR STORMWATER MANAGEMENT AREAS, INCLUDING DETENTION BASINS AND VEGETATED TREATMENT SWALES SHALL CONSIST OF THE FOLLOWING:
   - 25% CREEPING RED FESCUE
   - 15% SWITCH GRASS
   - 15% FOX SEDGE
   - 15% CREEPING BENTGRASS
   - 10% FLATPEA
   - 20% WILDFLOWER VARIETY
8. STRAW USED FOR MULCH SHALL CONSIST OF MOWED AND PROPERLY CURED GRASS OR LEGUME MOWINGS, FREE FROM WEEDS, TWIGS, DEBRIS OR OTHER DELETERIOUS MATERIAL AND ROT OR MOLD.
9. NATIVE PLANTINGS SHOULD BE USED FOR ALL NEW GREENSCAPES.
10. ALL WILDFLOWER SEEDING MIXES SHOULD BE FREE OF INVASIVE SPECIES.

CONSTRUCTION SEQUENCE

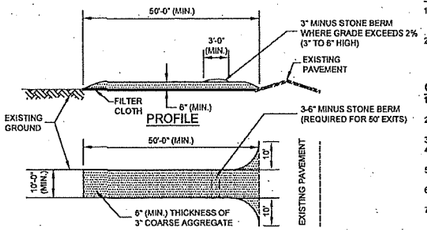
1. THE CONTRACTOR WILL ENSURE THAT NO MORE THAN 5 ACRES IS DISTURBED AT ANY ONE TIME.
2. FIRST CUT AND CLEAR TREES AND BRUSH ONLY WITHIN DESIGNATED LIMITS OF CLEARING AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION. ALL TREES, BRANCHES AND OTHER VEGETATIVE MATERIALS SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR. THIS PROJECT IS MANAGED TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
3. PRIOR TO COMMENCEMENT OF ANY EARTHMOVING OPERATIONS, ALL APPLICABLE TEMPORARY EROSION CONTROL MEASURES, INCLUDING SPECIFIED PERIMETER SILTATION FENCING AND STABILIZED CONSTRUCTION EXIT SHALL BE IN PLACE AS SHOWN ON THE PROJECT PLANS.
4. COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR ORGANIC DEBRIS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NATIVE ORGANIC SOIL MATERIALS SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED WITHIN AREAS OUT OF THE WAY OF OTHER CONSTRUCTIONS ACTIVITIES AND DRAINAGE FLOW. STOCKPILES SHALL BE TEMPORARILY SEEDED WITH WINTER RYE AND BE SURROUNDED WITH STRAW BALES AND/OR FABRIC SILTATION FENCE IN ORDER TO PREVENT LOSS DUE TO EROSION.
5. BEGIN EARTHMOVING OPERATIONS, COMMENCING WITH WORK NEEDED TO BALANCE SITE AND FACILITATE BUILDING FOUNDATION AND RETAINING WALL CONSTRUCTION. PERMANENT DOWNSLOPE WORK SHALL BE PROTECTED FROM UPGRADIENT STORMWATER FLOW BY THE CONSTRUCTION OF TEMPORARY EARTHEN DIKES OR EXCAVATED SWALES.
6. ONCE BUILDING FOUNDATION WORK IS UNDERWAY, CONTINUE EARTHMOVING OPERATIONS UNTIL DESIGN SUBGRADE IS ACHIEVED.
7. DETENTION BASINS/SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE.
8. DITCHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
9. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL SOILS ARE STABILIZED.
10. INSTALL DRAINAGE SWALE SYSTEMS AND OTHER UTILITIES WORKING FROM LOW TO HIGH. INCOMPLETE WORK SHALL BE PROTECTED FROM SILTATION BY THE USE OF SILTATION BARRIERS AROUND SWALES UNTIL THE SITE HAS BECOME FULLY STABILIZED.
11. DEEPLY TILL THE BASE OF THE INFILTRATION BASIN TO RESTORE INFILTRATION RATES FOLLOWED BY A PASS WITH A LEVELING DRAG. STORMWATER FLOWS ARE NOT TO BE DIRECTED TO THE INFILTRATION AREA UNTIL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
12. PLACE GRAVEL AND CRUSHED GRAVEL OVER PROPOSED DRIVEWAY, WALKS AND PARKING AREAS AND COMPACT IN SPECIFIED LIFT THICKNESS.
13. COMPLETE EXCAVATION/STABILIZATION GRADING ACTIVITIES. WHEN COMPLETE, IMMEDIATELY BEGIN TOPSOILING PROPOSED TURF AREAS USING STOCKPILED LOAM SUPPLEMENTED WITH BORROW LOAM, IF NECESSARY, TO LEAVE A THICKNESS OF 4 INCHES OF FRIABLE LOAM.
14. FINE GRADE ALL FUTURE TURF AREAS AND HYDROSEED WITH THE SPECIFIED SEED MIXTURE IMMEDIATELY AFTER FINE GRADING IS COMPLETED. ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
15. INSTALL THE BINDER COURSE OF PAVEMENT OVER ALL DESIGNATED AREAS.
16. CONTINUE TO MONITOR AND RECTIFY MINOR SITE AND SLOPE EROSION UNTIL ENTIRE SITE APPEARS TO BE COMPLETELY STABILIZED AND VEGETATED WITH A HEALTHY STAND OF TURF OR GROUND COVER. MAINTAIN SPECIFIED SILTATION/EROSION CONTROL MEASURES THROUGH ONE WINTER.
17. INSTALL THE SPECIFIED WEARING COURSE OF PAVEMENT OVER THE BINDER COURSE.
18. COMPLETE INSTALLATION OF LANDSCAPING, SIGNAGE AND OTHER SITE AMENITIES.

CERTIFICATE OF OCCUPANCY PHASING PLAN AGREEMENT:

1. THE FOLLOWING SITE IMPROVEMENTS ARE REQUIRED FOR INDIVIDUAL CERTIFICATES OF OCCUPANCY AS CONSTRUCTION PROGRESSES:
   - A. ROAD BASE COAT;
   - B. STOP SIGNS AND TEMPORARY STRIPING OF STOP BARS;
   - C. GRADING AND DRAINAGE;
   - D. LOAM AND SEED THAT SUPPORTS THE SUBJECT UNIT OF THE CERTIFICATE OF OCCUPANCY;
   - E. TEMPORARY STRIPING OF VISITOR PARKING; AND
   - F. UTILITIES.

EROSION CONTROL NOTES

1. EXPOSED EARTHWORK SHALL BE CONFINED TO AS LIMITED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN FIVE (5) ACRES OF SITE AREA BE IN AN UNSTABLE CONDITION UNLESS AN ENVIRONMENTAL MONITOR IS EMPLOYED THROUGH THE DURATION OF CONSTRUCTION. NO GIVEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING FORTY-FIVE (45) CALENDAR DAYS.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELD CONDITION, OR FIELD OPERATION OF THE INDIVIDUAL SITE CONTRACTOR, MAY WARRANT. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.25" OF RAINFALL OR MORE. THEY SHALL BE CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATING MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
3. ALL DISTURBED AREAS DESIGNATED TO BE TURF, SHALL RECEIVE A MINIMUM APPLICATION OF 4 INCHES OF LOAM (COMPACTED THICKNESS) PRIOR TO FINAL SEEDING AND MULCHING.
4. EROSION CONTROL AND STABILIZATION SHALL BE IN ACCORDANCE WITH HILLSBOROUGH COUNTY CONSERVATION DISTRICT-VEGETATIVE STANDARD AND SPECIFICATIONS FOR SEEDING GRASSES AND LEGUMES FOR LONG-TERM COVER ON EXCAVATED AREAS.
5. ALL SWALES AND DITCHLINES SHALL BE PERIODICALLY CLEANED OF DEPOSITED SEDIMENT SO AS TO MAINTAIN AN EFFECTIVE GRADE AND CROSS SECTION. ALL SWALES AND DITCHLINES SHALL BE FULLY STABILIZED PRIOR TO HAVING STORMWATER DIRECTED TOWARDS THEM.
6. IN THE EVENT THAT, DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
7. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
   - A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED;
   - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
   - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
8. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD, IN ACCORDANCE WITH ENV-A 1000.
9. IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.
10. THE TOWN RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION.
11. AREAS HAVING FINISH GRADE SLOPES OF 3 : 1 OR STEEPER, SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN VOLUME 3 OF THE NEW HAMPSHIRE STORMWATER MANUAL "EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION."
12. DETENTION BASINS/SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE.
13. DITCHES/SWALES/BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
14. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL SOILS ARE STABILIZED.
15. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
16. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.



PLAN VIEW

MAINTENANCE:

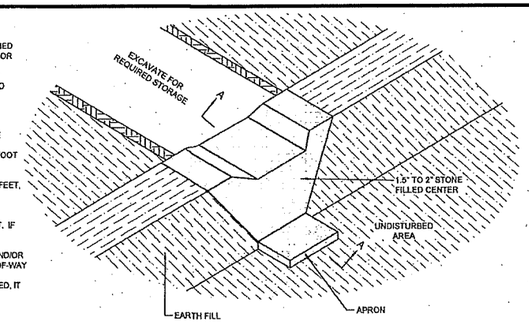
1. MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE CRUSHED STONE AND THE EFFECTIVENESS OF THE CRUSHED STONE PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOPDRESSED WITH NEW CRUSHED STONE OR COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
2. IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

CONSTRUCTION SPECIFICATIONS:

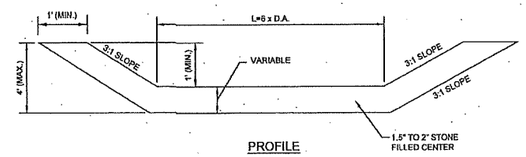
1. STONE FOR A STABILIZED CONSTRUCTION EXIT SHALL BE 3 INCH MINIMUM STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED EXIT SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED EXIT SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE EXIT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE AREA WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION EXIT SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. THE MOUNTABLE BERM IS REQUIRED FOR 50' LONG EXITS.

STABILIZED CONSTRUCTION EXIT DETAIL

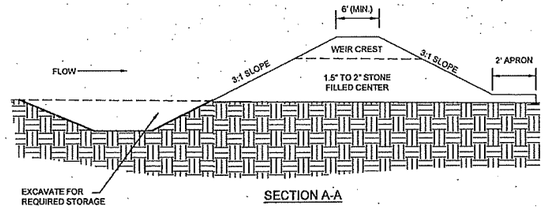
NOT TO SCALE



ISOMETRIC VIEW



PROFILE



SECTION A-A

NOTES:

1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
5. 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.
6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
8. SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED.

TEMPORARY SEDIMENT TRAP DETAIL

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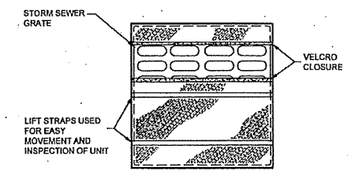
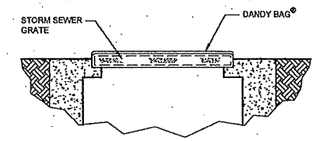




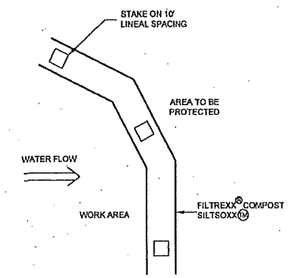
HI-FLOW DANDY BAG® (SAFETY ORANGE)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 x 10
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m² (gal/min/ft.²)	5907 (145)
PERMITTIVITY	ASTM D 4491	Sec-1	2.1

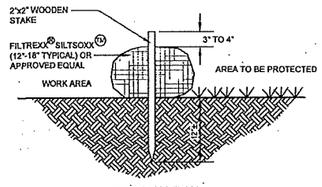
DANDY BAG®

NOT TO SCALE

(APRIL 2010)



PLAN VIEW



SECTION VIEW

NOTES:

1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. SILTSOXX™ COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
3. SILTSOXX™ DEPICTED IS FOR MINIMUM SLOPES. GREAT SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

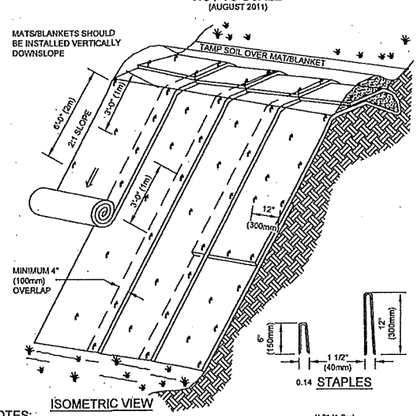
FILTREXX® SILTSOXX™ DETAIL

NOT TO SCALE

(AUGUST 2011)

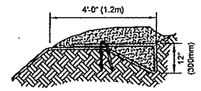
NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. EROSION BLANKETS TO BE A BCN150 OR AN APPROVED ALTERNATIVE WHICH MUST CONSIST OF ALL NATURAL FIBERS.



ISOMETRIC VIEW

0.14 STAPLES



BERM

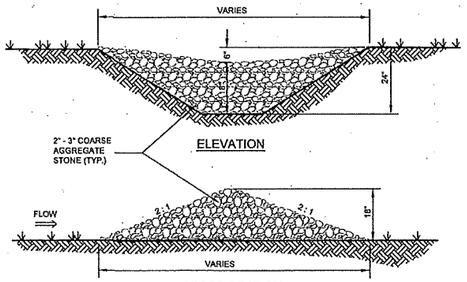
EROSION CONTROL BLANKETS - SLOPE INSTALLATION

NOT TO SCALE

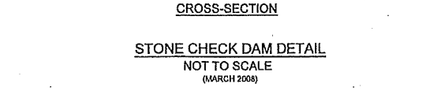
(AUGUST 2011)

WINTER CONSTRUCTION NOTES:

1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3 OR, IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.
4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
   - A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED;
   - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
   - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.



ELEVATION

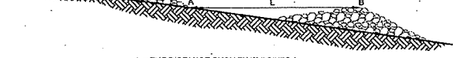


CROSS-SECTION

STONE CHECK DAM DETAIL

NOT TO SCALE

(MARCH 2008)



L = THE DISTANCE SUCH THAT POINTS A AND B ARE EQUAL ELEVATION, OR FOR FLAT SLOPES L = 75' MAXIMUM

STONE CHECK DAM SPACING DETAIL

NOT TO SCALE

(MARCH 2008)

CONSTRUCTION DETAILS

THE Q AT MILFORD

MAP 43; BLOCK 69

0 PONEMAH HILL ROAD

MILFORD, NEW HAMPSHIRE

HILLSBOROUGH COUNTY

OWNER OF RECORD:
SALT CREEK PROPERTIES, LLC
PO BOX 967
AMHERST, NH 03031
H.C.R.D. BK. 8420 PG. 1596

OWNER/APPLICANT:
TM BOLDUC HOLDINGS, LLC
131 BURKE STREET, SUITE A
NASHUA, NH 03060

KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY

2/15/23

DATE: FEBRUARY 9, 2023 | SCALE: AS SHOWN

PROJECT NO: 21-1216-1 | SHEET 44 OF 45

TP #1
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 18"
ROOTS @ 34"
SEEPS @ 24"
REFUSAL NONE @ 62"

0"	10YR 3/3 SANDY LOAM, GRANULAR, FRIABLE
8"	10YR 5/4 GRAVELY SANDY LOAM
22"	2.5Y 5/4 LOAMY SAND , GRANULAR, FRIABLE
32"	2.5Y 6/4 RESTRICTIVE, MASSIVE, FIRM
62" BOTTOM OF HOLE	

TP #2
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 29"
ROOTS @ 29"
SEEPS @ 22"
REFUSAL NONE @ 67"

0"	10YR 2/2 SANDY LOAM, GRANULAR, VERY FRIABLE
8"	10YR 5/4 SANDY LOAM, SUB ANGULAR BLOCKY, FRIABLE
29"	2.5Y 6/4 RESTRICTIVE, MASSIVE, FIRM REDOX @ 29" 7.5Y 5/6
67" BOTTOM OF HOLE	

TP #3
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 24"
ROOTS @ 25"
SEEPS @ 62"
REFUSAL NONE @ 72"

0"	10YR 2/2 SANDY LOAM, GRANULAR, VERY FRIABLE
3"	10YR 5/4 SANDY LOAM, FRIABLE, SUB ANGULAR BLOCKY
24"	2.5Y 6/4 SANDY LOAM TO SAND
72" BOTTOM OF HOLE	

TP #4
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 13"
ROOTS @ 13"
SEEPS @ 33.5"
REFUSAL @ 58"

0"	10YR 2/2 SANDY LOAM, VERY FRIABLE, WEAK GRANULAR
4"	10YR 4/4 SANDY LOAM, FRIABLE, SUB ANGULAR BLOCKY CONCENTRATIONS @ 4" 10YR 4/6
18"	2.5Y 4/3 SANDY LOAM, FIRM, MASSIVE REDOX @ 18" 2.5Y 5/2
58" BOTTOM OF HOLE	

TP #5
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 24"
ROOTS @ 28"
SEEPS @ 43"
REFUSAL NONE @ 64"

0"	10YR 2/2 FINE SANDY LOAM, GRANULAR, FRIABLE
5"	10YR 4/4 SANDY LOAM, SUB ANGULAR BLOCKY, FRIABLE
21"	2.5Y 4/3 LOAMY SAND, MASSIVE, FRIABLE RESTRICTIVE @ 24"
84" BOTTOM OF HOLE	

TP #6
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. NONE @ 27"
ROOTS @ 22"
SEEPS NONE @ 27"
REFUSAL @ 27"

0"	10YR 2/2 SANDY LOAM, VERY FRIABLE, WEAK GRANULAR
4"	10YR 3/6 SANDY LOAM, GRANULAR, FRIABLE
18"	2.5Y 5/3 SANDY LOAM, MASSIVE, FIRM
27" BOTTOM OF HOLE	

TP #7
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 34"
ROOTS @ 36"
SEEPS NONE @ 60"
REFUSAL @ 60"

0"	10YR 2/2 SANDY LOAM, GRANULAR, FRIABLE
4"	10YR 4/6 SANDY LOAM, SUB ANGULAR BLOCKY, FRIABLE
22"	2.5Y 5/3 SANDY LOAM, FIRM. MASSIVE
60" BOTTOM OF HOLE	

TP #8
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 33"
ROOTS @ 60"
SEEPS @ 76"
REFUSAL NONE @ 84"

0"	10YR 2/2 SANDY LOAM, GRANULAR, FRIABLE
4"	10YR 4/6 SANDY LOAM, SUB ANGULAR BLOCKY, FRIABLE
20"	2.5Y 5/3 SANDY LOAM, FIRM. MASSIVE
84" BOTTOM OF HOLE	

TP #9
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 28"
ROOTS @ 44"
SEEPS @ 48"
REFUSAL NONE @ 70"

0"	10YR 2/1 FINE SANDY LOAM, VERY FRIABLE, GRANULAR
4"	10YR 4/6 SANDY LOAM, FRIABLE, SUB ANGULAR BLOCKY
28"	2.5Y 5/3 SANDY LOAM, FIRM, MASSIVE REDIX @ 28" 10YR 5/6
70" BOTTOM OF HOLE	

TP #10
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. @ 28"
ROOTS @ 45"
SEEPS NONE @ 57"
REFUSAL NONE @ 57"

0"	10YR 2/2 SANDY LOAM, VERY FRIABLE, WEAK GRANULAR STRUCTURE
4"	10YR 5/6 SANDY LOAM, FRIABLE
28"	2.5Y 4/2 ROTTEN ROCK, SANDY LOAM, MASSIVE, FIRM
57" BOTTOM OF HOLE	

TP #11
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. NONE @ 34"
ROOTS @ 18"
SEEPS NONE @ 34"
REFUSAL NONE @ 34"

0"	10YR 2/1 SANDY LOAM, BLOCKY, FRIABLE
8"	2.5Y 4/3 SANDY LOAM, BLOCKY, FRIABLE, GRANITE SLABS 80%, BACK FILLED WITH QUARRIED STONE
34" BOTTOM OF HOLE	

TP #12
LOGGED BY CKD
DATE: 5-2-2022
E.S.H.W.T. NONE @ 63"
ROOTS @ 32-42"
SEEPS NONE @ 63"
REFUSAL NONE @ 63"

0"	2.5Y 4/3 SANDY LOAM, FILL
32"	10YR 3/2 LOAMY SAND
42"	2.5Y 5/4 SANDY LOAM
50"	2.5Y 5/3 SANDY LOAM
63" BOTTOM OF HOLE	

TP #13
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: 36"
WATER ENCOUNTERED: 34"

0"	TOPSOIL
6"	10YR 6/2, GRAVELLY SAND FILL
24"	10YR 5/4, FIRM SANDY LOAM, BLOCKY, REDOX BELOW 34"
34" BOTTOM OF E.S.H.W.T.	
36" BOTTOM OF HOLE	

TP #14
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: 48"
WATER ENCOUNTERED: 46"

0"	TOPSOIL/FILL
20"	10YR 6/4, FIRM SANDY LOAM, BLOCKY, REDOX BELOW 46"
46" BOTTOM OF E.S.H.W.T.	
48" BOTTOM OF HOLE	

TP #15
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: NONE

0"	TOPSOIL
6"	10YR 5/4 SANDY LOAM
24" E.S.H.W.T.	10YR 6/2, FIRM SILTY LOAM W/ REDOX
84" BOTTOM OF HOLE	

TP #16
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: 48"
WATER ENCOUNTERED: 36"

0"	TOPSOIL/FOREST MAT
4"	10YR 4/6 SANDY LOAM, STONES
36" E.S.H.W.T.	10YR 6/6, FIRM SAND, BLOCKEY W/ REDOX
48" BOTTOM OF HOLE	

TP #17
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: 48"
WATER ENCOUNTERED: NONE

0"	FOREST MAT
6"	10YR 6/6, GRANULAR, FRIABLE SANDY LOAM, COBBLES, ROOTS
24" E.S.H.W.T.	10YR 6/4, FIRM LOAMY SAND
30"	10YR 7/2, FIRM, SAND, W/ REDOX FEATURES
48" BOTTOM OF HOLE	

TP #18
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: 48"

0"	FOREST MAT
6"	10YR 5/6, GRANULAR, FRIABLE SANDY LOAM, COBBLES, ROOTS
12"	2.5Y 6/4, GRANULAR FRIABLE SAND
24" E.S.H.W.T.	10YR 6/2, FIRM SAND, PLATEY
56"	10YR 5/2, FIRM, SAND, BLOCKEY W/ REDOX FEATURES
80" BOTTOM OF HOLE	

TP #19
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: 48"

0"	FOREST MAT
6"	10YR 5/6, GRANULAR, FRIABLE SANDY LOAM, COBBLES, ROOTS
12"	2.5Y 6/4, GRANULAR FRIABLE SAND
24" E.S.H.W.T.	10YR 6/2, FIRM SAND, PLATEY
56"	10YR 5/2, FIRM, SAND, BLOCKEY W/ REDOX FEATURES
80" BOTTOM OF HOLE	

TP #20
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: 32"

0"	FOREST MAT
12"	10YR 6/6 LOAMY SAND
18" E.S.H.W.T.	10YR 7/4, FIRM SAND, BLOCKEY W/ REDOX
84" BOTTOM OF HOLE	

TP #21
LOGGED BY GPC
PERC TEST @ 20"
DATE: 11-15-2022
PERC RATE: 10 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: 32"

0"	FOREST MAT
12"	10YR 6/6 LOAMY SAND
18" E.S.H.W.T.	10YR 7/4, FIRM SAND, BLOCKEY W/ REDOX
84" BOTTOM OF HOLE	

TEST PIT LOGS
THE Q AT MILFORD
MAP 43; BLOCK 69
0 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
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KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

2/10/23

REVISIONS

No.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 9, 2023 | SCALE: AS SHOWN
PROJECT NO: 21-1216-1 | SHEET 45 OF 45

Club House from Parking

CLUB HOUSE

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

BURNELL △ JOHNSON
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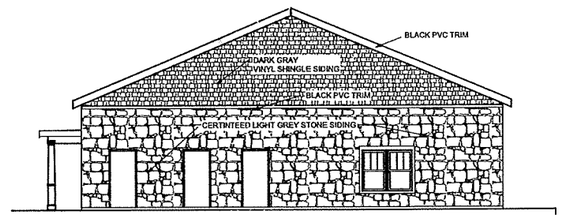
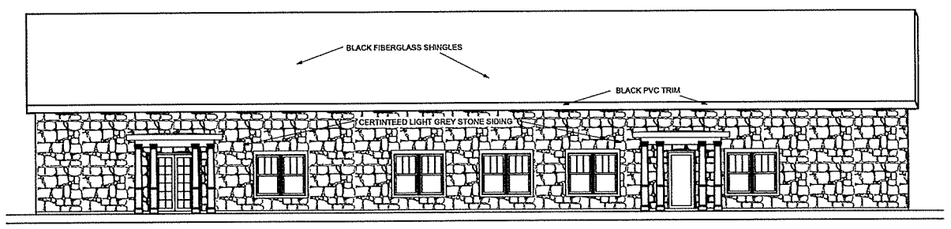
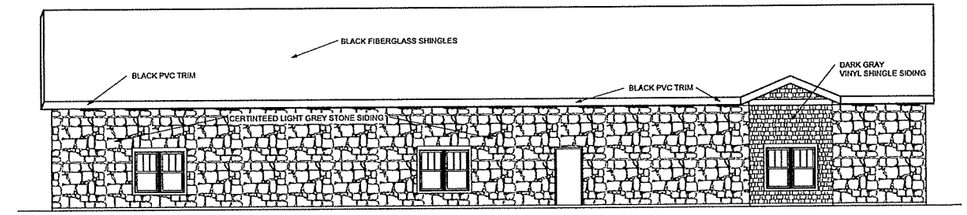
DECEMBER 22, 2022



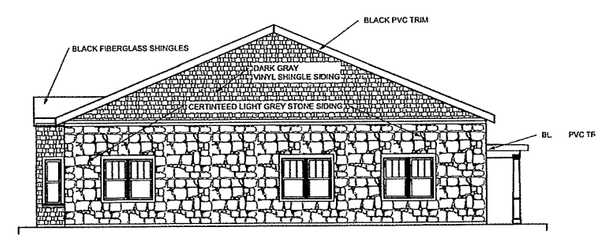
REAR ELEVATION
SCALE 1/8" = 1'-0"



RIGHT SIDE ELEVATION
SCALE 1/8" = 1'-0"



LEFT SIDE ELEVATION
SCALE 1/8" = 1'-0"



FRONT ELEVATION
SCALE 1/8" = 1'-0"

CLUB HOUSE

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

BURNELL ▲ JOHNSON
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80 STARK STREET, MANCHESTER, NEW HAMPSHIRE 03101
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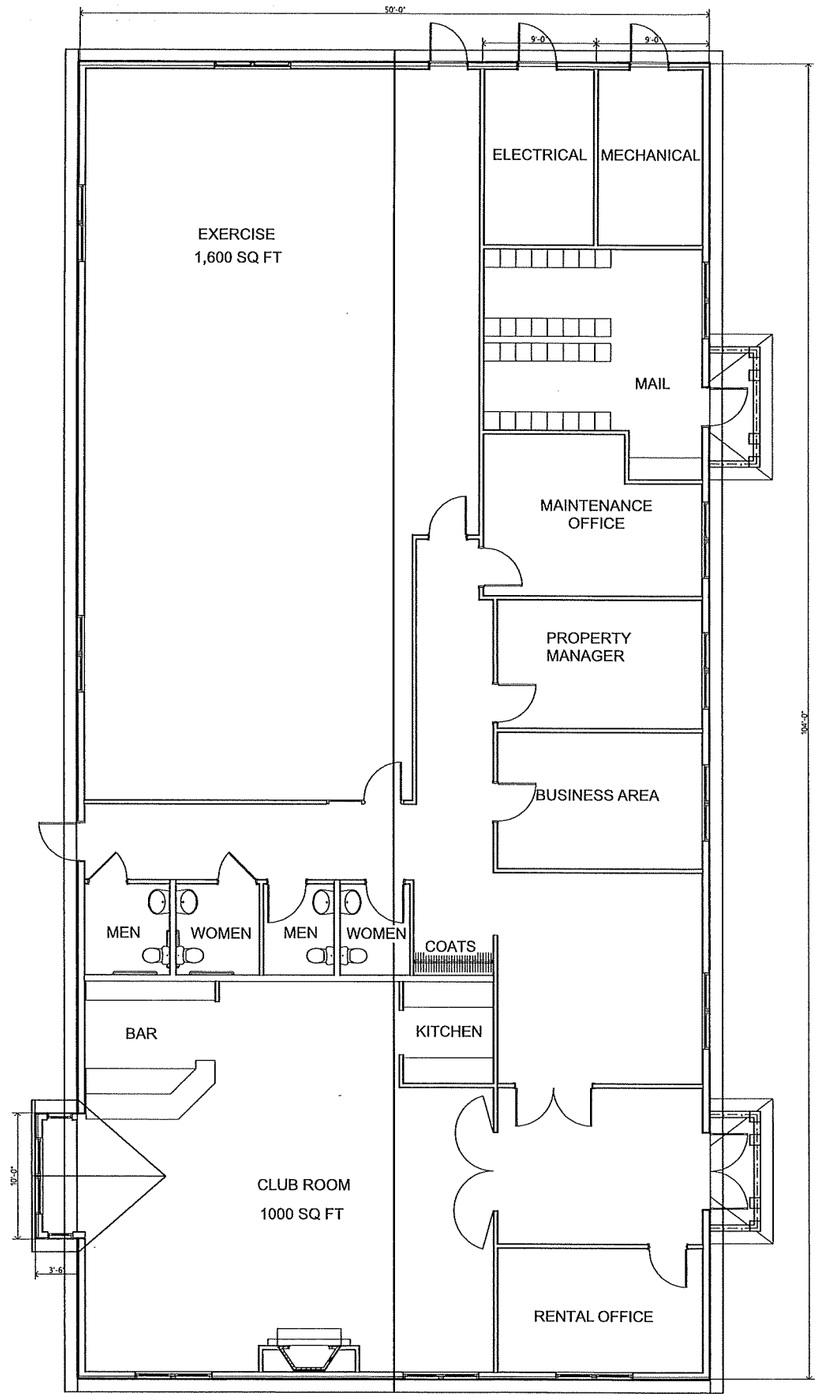
DECEMBER 22, 2022



FLOOR PLAN

CLUB HOUSE

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

BURNELL ▲ JOHNSON
ARCHITECTS
80 STARK STREET, MANCHESTER, NEW HAMPSHIRE 03101
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DECEMBER 22, 2022

VIEW from PARKING AREA

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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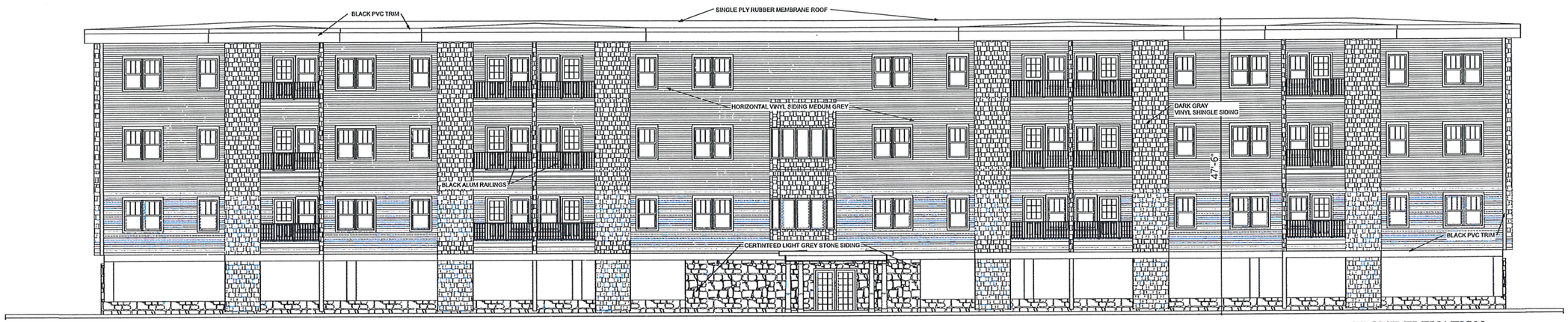
JANUARY 26, 2023



FRONT ELEVATION

LEFT SIDE ELEVATION

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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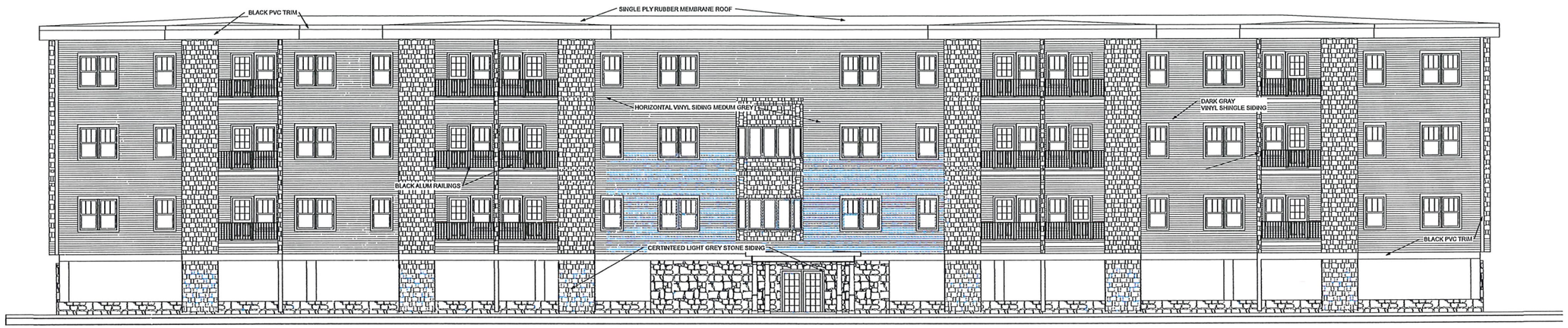
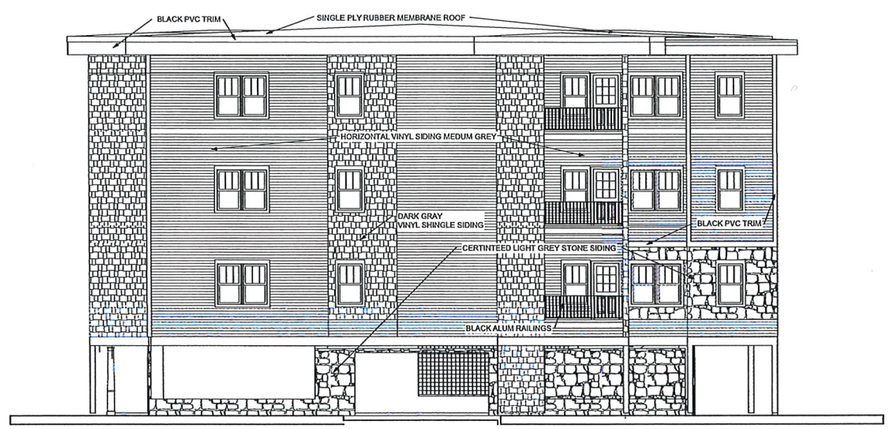
JANUARY 26, 2023



REAR ELEV



RIGHT SIDE ELEVATION

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

BURNELL ▲ JOHNSON
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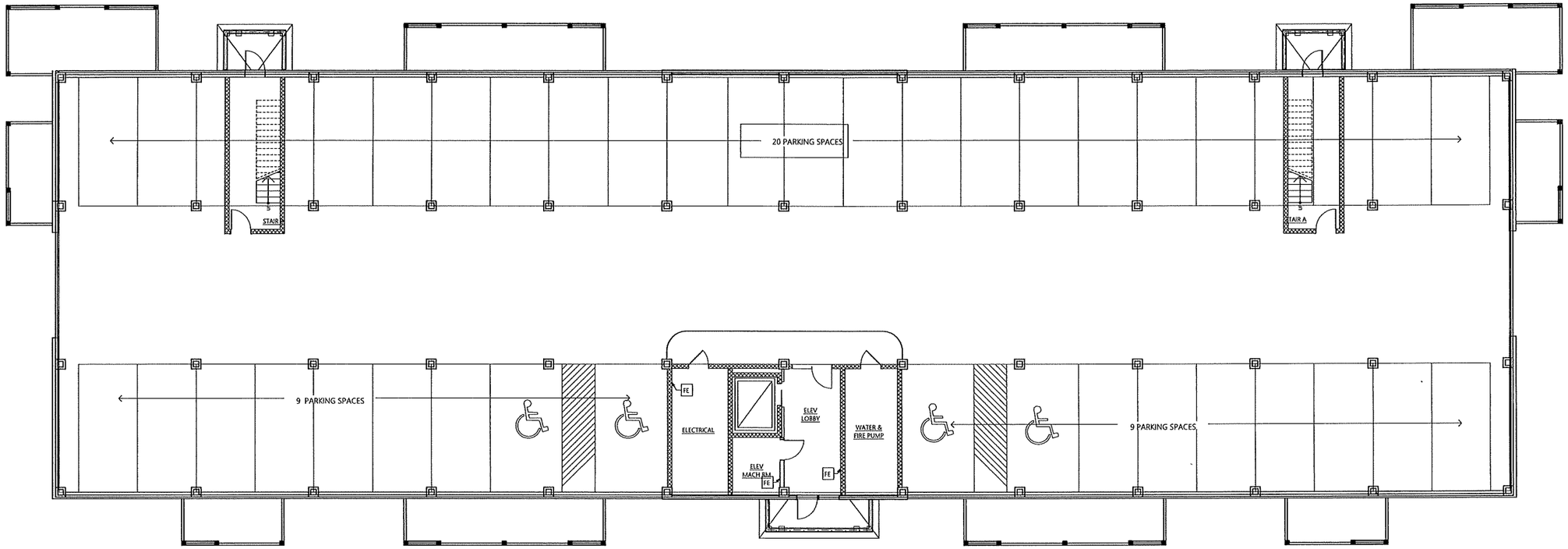
JANUARY 26, 2023



GARAGE FLOOR PLAN

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

BURNELL ▲ JOHNSON
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EMAIL sburnell@burnellarchitects.com

JANUARY 26, 2023

RENDERING FROM PARKING AREA

BUILDING-C

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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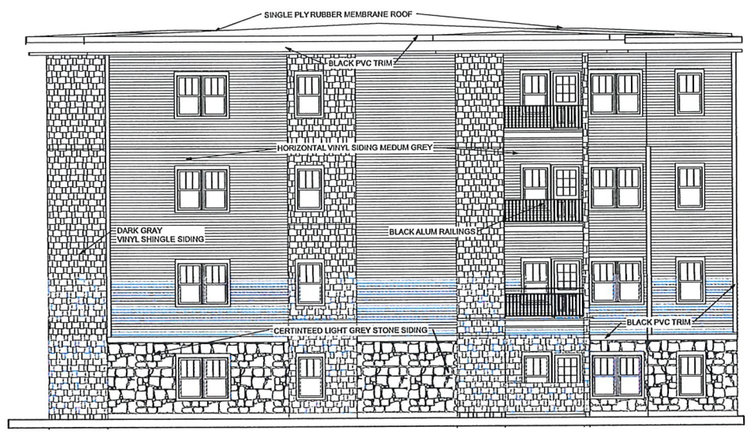
September 30, 2022

FRONT ELEVATION



LEFT SIDE ELEVATION

BUILDING-C

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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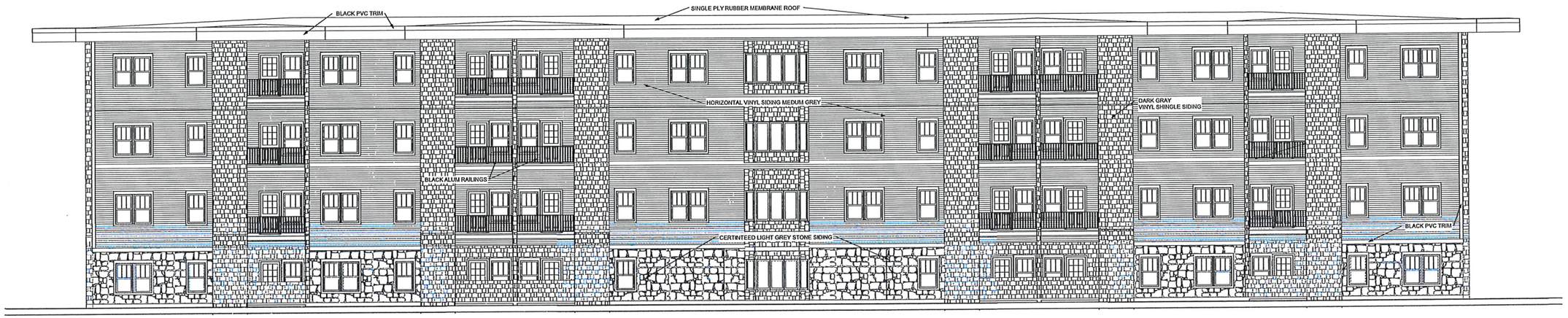
September 30, 2022



REAR ELEV

RIGHT SIDE ELEVATION

BUILDING-C

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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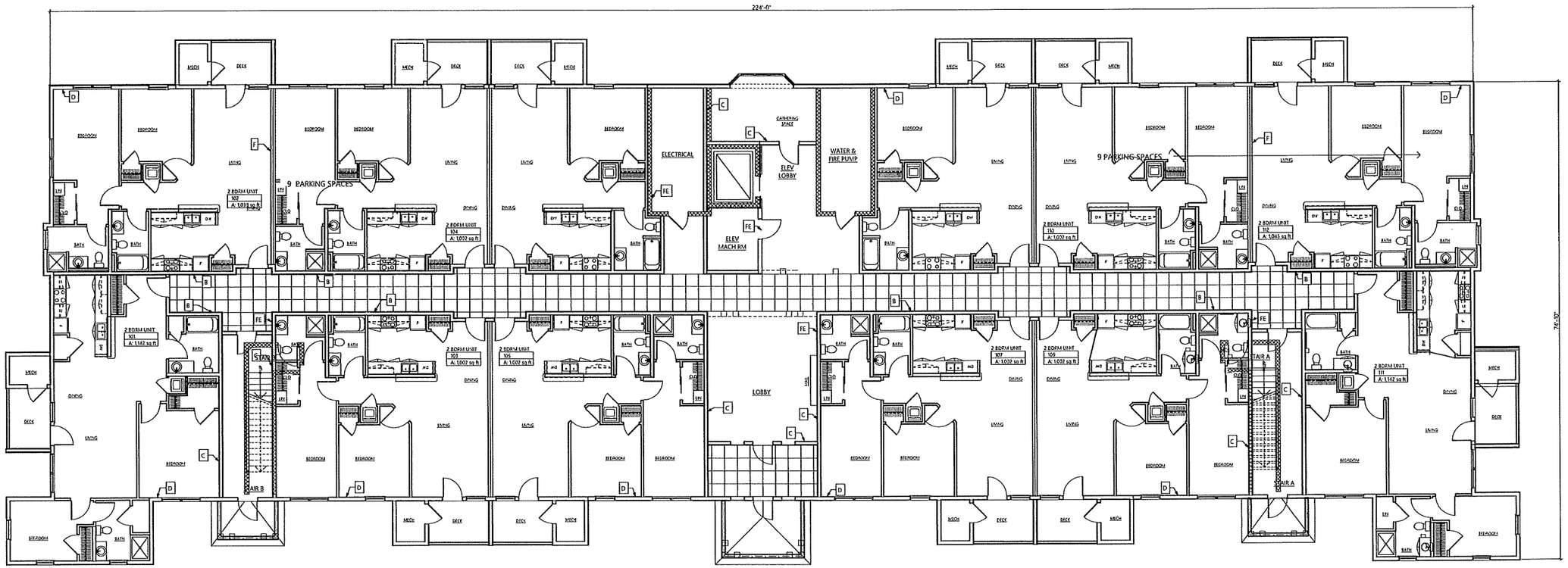
September 30, 2022



FIRST FLOOR PLAN

BUILDING-C

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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September 30, 2022

View from Parking Area

BUILDING E

THE Q at MILFORD

MILFORD, NEW HAMPSHIRE

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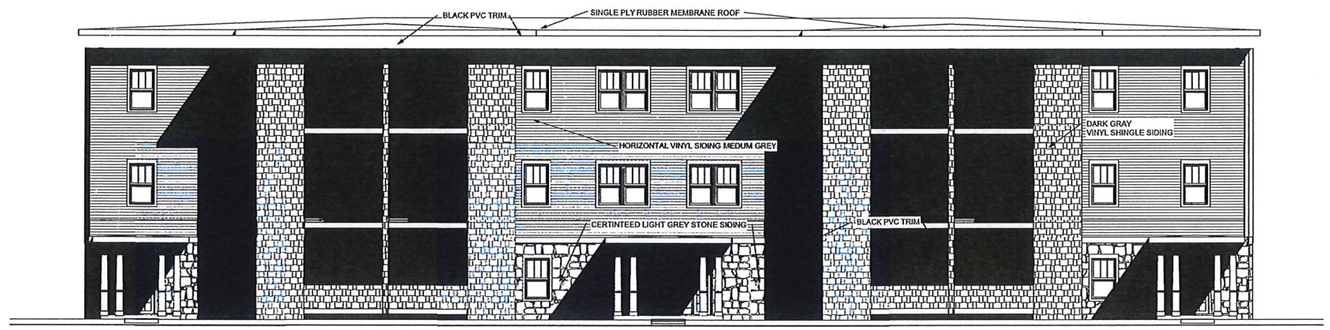
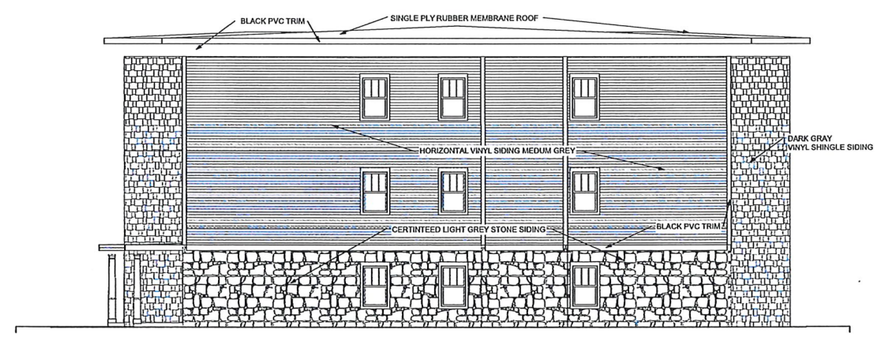
DECEMBER 21, 2022



FRONT ELEVATION



LEFT SIDE ELEVATION

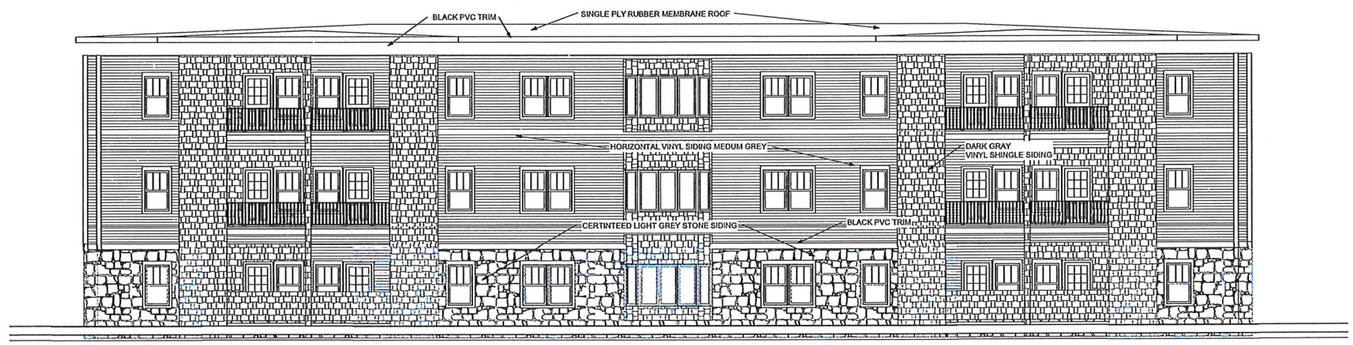
BUILDING E

THE Q at MILFORD

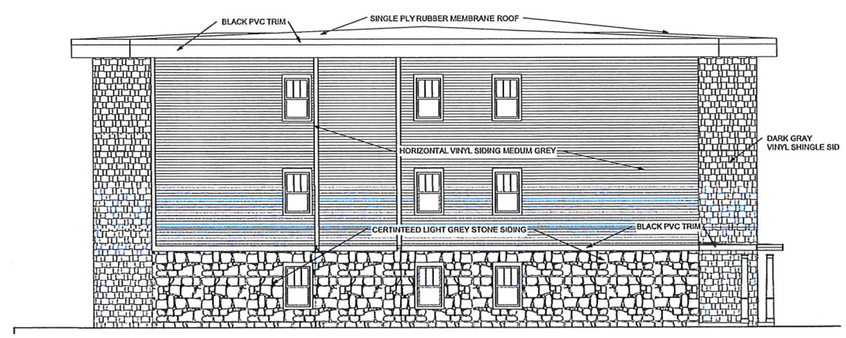
MILFORD, NEW HAMPSHIRE

BURNELL ▲ JOHNSON
ARCHITECTS
80 STARK STREET, MANCHESTER, NEW HAMPSHIRE 03101
(603) 625-5098 (603) 625-5167 FAX
EMAIL sburnell@burnellarchitects.com

DECEMBER 21, 2022



REAR ELEV



RIGHT SIDE ELEVATION

BUILDING E

THE Q at MILFORD

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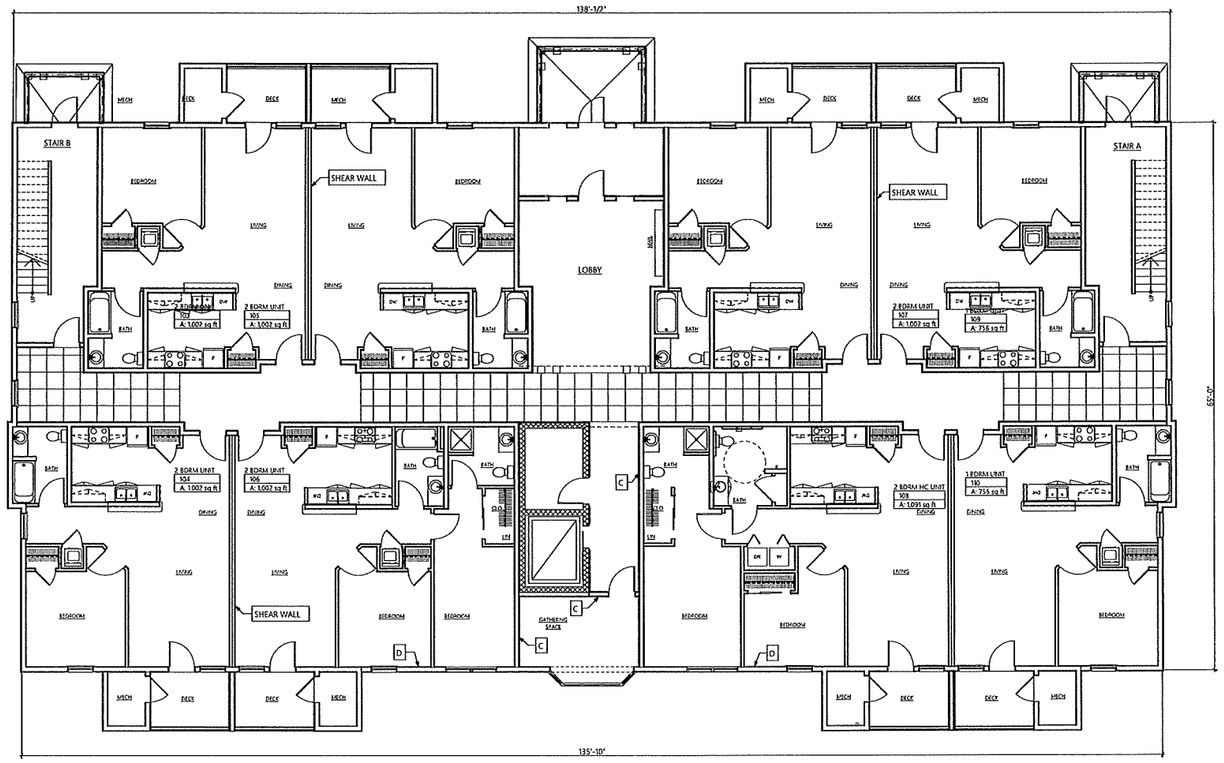

FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

BUILDING E

THE Q at MILFORD

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DECEMBER 21, 2022

VIEW FROM PARKING AREA

BUILDINGS F&G

THE Q at MILFORD

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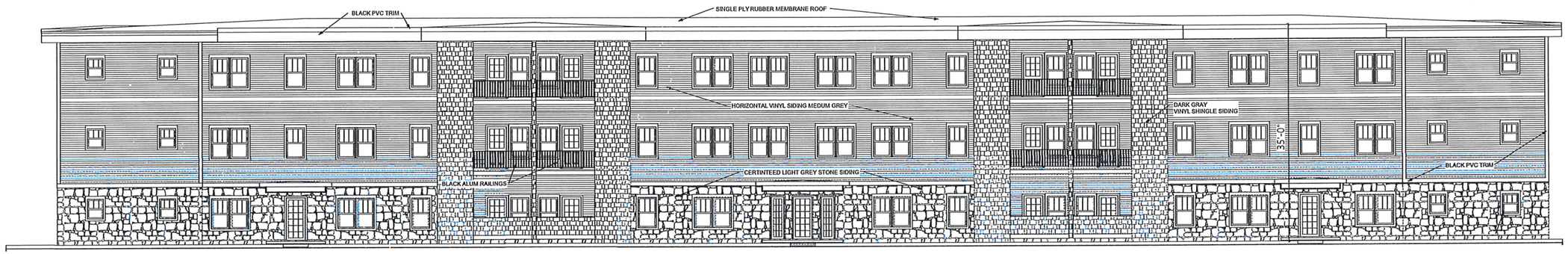
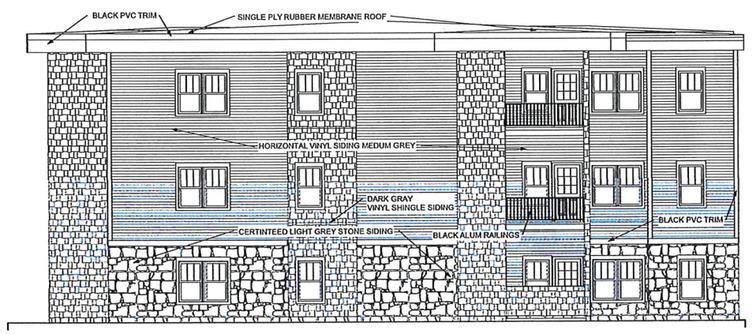
OCTOBER 14, 2022



FRONT ELEVATION



LEFT SIDE ELEVATION

BUILDINGS F&G

THE Q at MILFORD

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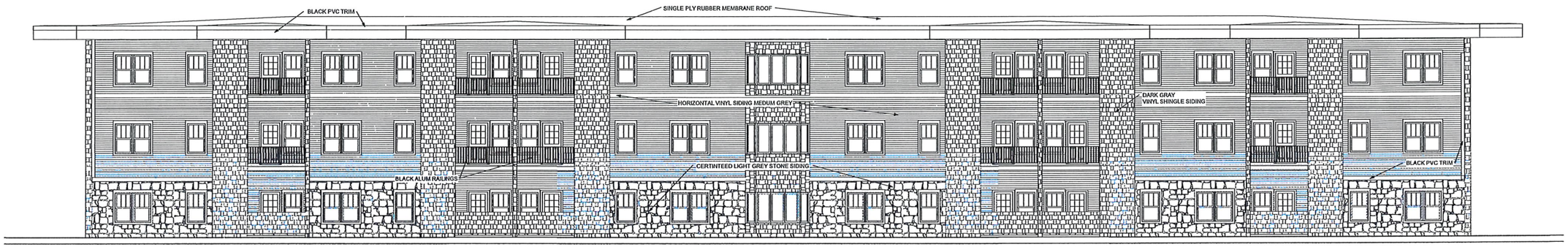
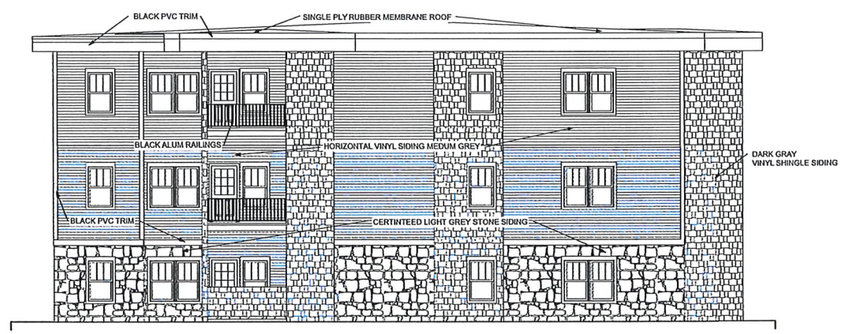


REAR ELEV



RIGHT SIDE ELEVATION

BUILDINGS F&G

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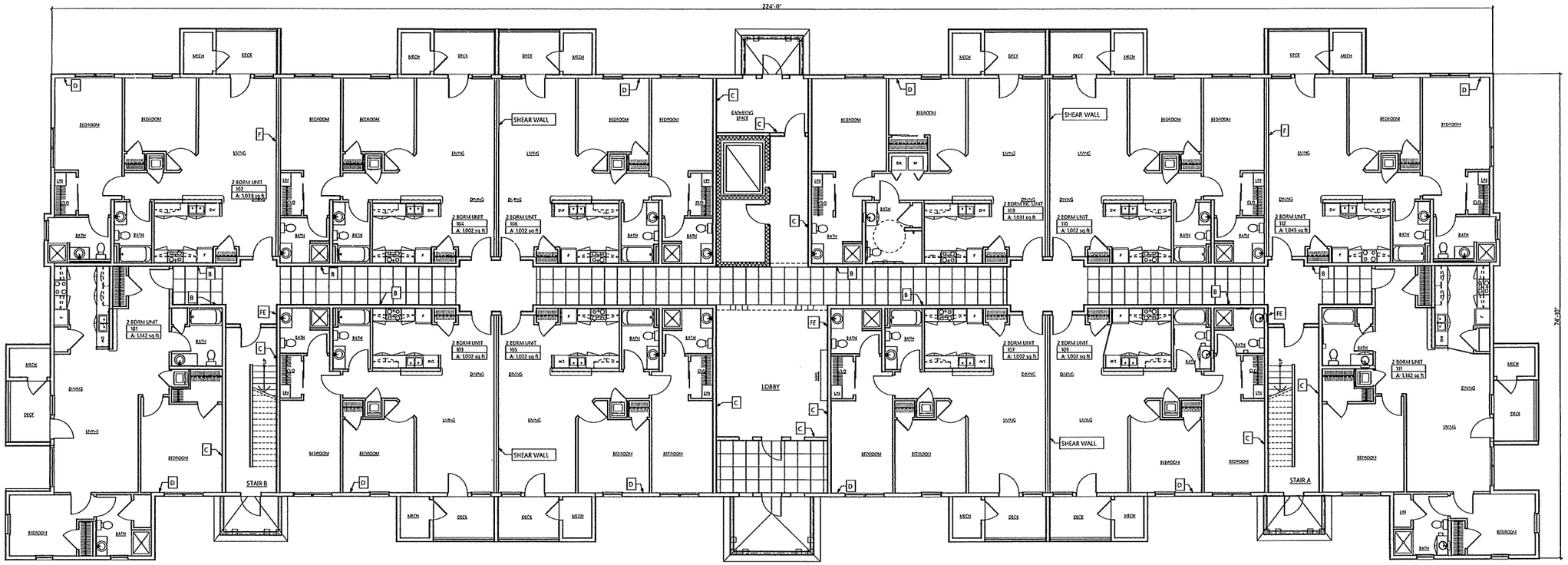

FIRST FLOOR PLAN

BUILDINGS F&G

THE Q at MILFORD

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DECEMBER 22, 2022