

ATTACHMENT A

Exst. 6 inch, 60 psig coated steel
Exst 12 inch, 200 psig coated steel

Google earth

New regulator station to
be constructed by LU

Exst. 2 inch, 60 psig plastic

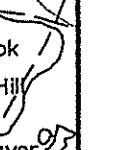
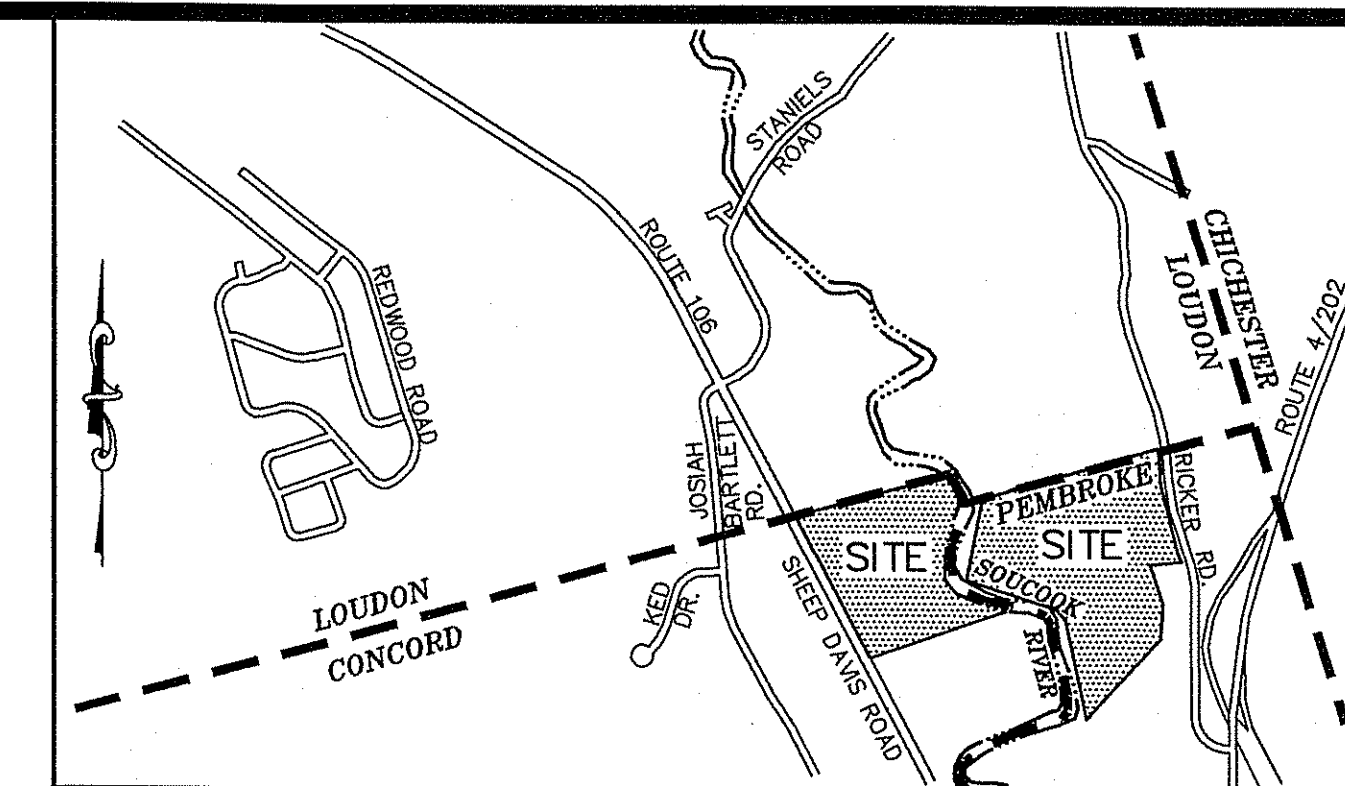
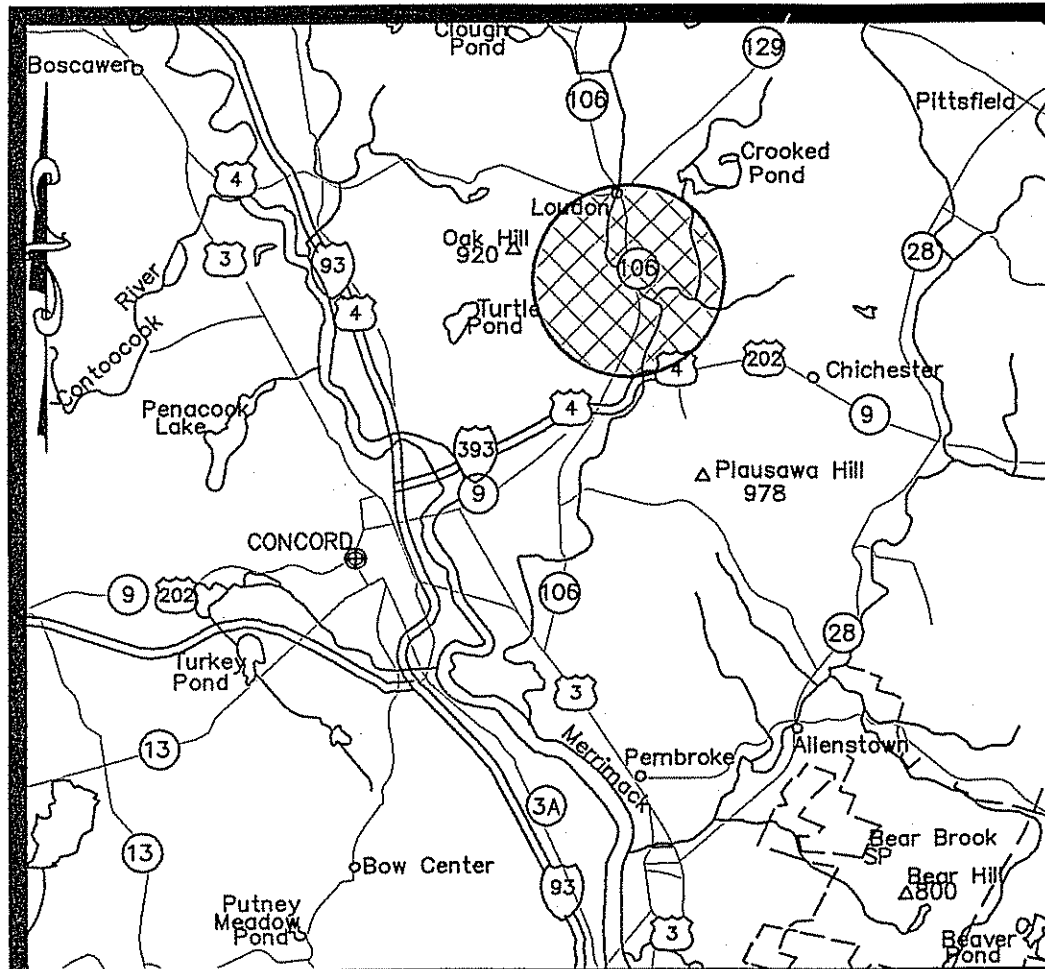
Aprx 4,500 feet of 6 & 8
inch, 60 psig plastic

PLANT 1

(c) 2013 Google

PLANT 2





SHORELAND IMPACT PLAN

GAS MAIN EXTENSION ON

CONCORD, NH (MAP 112; BLOCK 2; LOT 11)

PEMBROKE, NH (MAP 256; LOT 22)

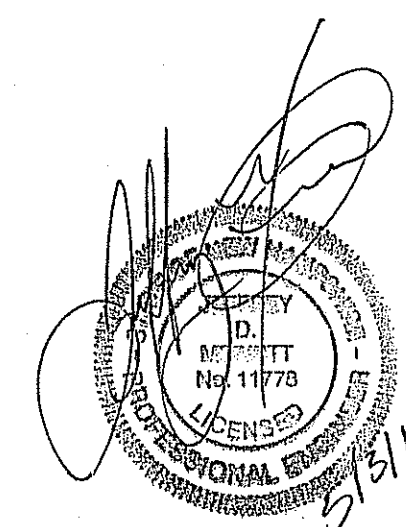
OWNER OF MAP 112: BLOCK 2: LOT 11:
KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NEW HAMPSHIRE 03275

OWNER OF MAP 256; LOT 22:
CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDONDERRY, NEW HAMPSHIRE 03053

PREPARED FOR:
CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDONDERRY, NEW HAMPSHIRE 03053

LIBERTY UTILITIES
38 BRIDGE STREET
NASHUA, NEW HAMPSHIRE 03060

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



KNA KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2081

MAY 29, 2013
PROJECT NO. 13-0311-3

SHEET TITLE

OVERVIEW PLAN
SHORELAND IMPACT PLAN
GAS MAIN PROFILE

SHEET No.

1 & 2
3 & 4
5

PLAN REFERENCE:

1. "CONTINENTAL PAVING, INC. RICKER ROAD ASPHALT PLANT, PEMBROKE, NEW HAMPSHIRE," PREPARED BY NOBIS ENGINEERING, DATED JANUARY 2011, LAST REVISED MARCH 17, 2011.

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE THE TEMPORARY IMPACTS TO THE SHORELAND PROTECTION ZONE ASSOCIATED WITH THE INSTALLATION OF AN 8" PE GAS MAIN ON CITY OF CONCORD TAX MAP 112; BLOCK 2; LOT 11 AND TOWN OF PEMBROKE TAX MAP 256; LOT 22.
2. PROPOSED TEMPORARY IMPACTS TO THE SHORELAND PROTECTION ZONE ARE AS FOLLOWS:
- MAP 112; BLOCK 2; LOT 11 = 28,089 SF
MAP 256; LOT 22 = 10,034 SF
3. REFERENCE SUBJECT PARCELS AS THE CITY OF CONCORD TAX MAP 112; BLOCK 2; LOT 11 AND TOWN OF PEMBROKE TAX MAP 256; LOT 22.
4. TOTAL SITE AREA:
TAX MAP 112; BLOCK 2; LOT 11 = 32.8± ACRES
TAX MAP 256; LOT 22 = 44.4± ACRES
5. PRESENT OWNER OF RECORD:
TAX MAP 112; BLOCK 2; LOT 11
KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3247, PG. 1239
- TAX MAP 256; LOT 22
CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDON DERRY, NH 03053
BK. 3188, PG. 115
6. CITY OF CONCORD ZONING: OPENSACE RESIDENTIAL DISTRICT (RO)
- | MINIMUM LOT AREA | REQUIRED |
|----------------------------|----------|
| MINIMUM LOT FRONTAGE | 2 ACRES |
| MINIMUM BUILDING SETBACKS: | |
| FRONT | 50' |
| SIDE | 40' |
| REAR | 50' |
| MAXIMUM LOT COVERAGE | 10% |
| MAXIMUM BUILDING HEIGHT | 35' |
7. TOWN OF PEMBROKE ZONING: C1 COMMERCIAL/LIGHT INDUSTRIAL DISTRICT
- | MINIMUM LOT AREA | REQUIRED |
|----------------------------|----------|
| MINIMUM LOT FRONTAGE | N/A |
| MINIMUM LOT DEPTH | 200' |
| MINIMUM BUILDING SETBACKS: | |
| FRONT | 50' |
| SIDE | 25' |
| REAR | 40' |
| MINIMUM GREEN SPACE | 30% |
| MAXIMUM BUILDING HEIGHT | 35' |
8. MAP 112; BLOCK 2; LOT 11 IS UNDEVELOPED AND HAS NO CURRENT UTILITY SERVICES. MAP 256; LOT 22 IS CURRENTLY AN INDUSTRIAL SITE WITH UTILITIES.
9. EXAMINATION OF THE FLOOD INSURANCE RATE MAPS (FIRM) FOR THE CITY OF CONCORD, NEW HAMPSHIRE AND TOWN OF PEMBROKE, NEW HAMPSHIRE, MERRIMACK COUNTY, MAP NUMBER 33013C0552E, PANEL NUMBER 552 OF 705, EFFECTIVE DATE: APRIL 19, 2010 INDICATES THAT A PORTION OF THE SUBJECT PREMISES IS LOCATED WITHIN ZONE X AND ZONE AE FLOOD HAZARD AREAS.
10. THE BOUNDARY INFORMATION FOR MAP 112; BLOCK 2; LOT 11 IS APPROXIMATE AND IS TAKEN FROM CITY OF CONCORD TAX MAPS. BOUNDARY INFORMATION FOR MAP 256; LOT 22 IS TAKEN FROM PLAN REFERENCE #1. A LIMITED TOPOGRAPHIC SURVEY OF BOTH PROPERTIES WAS PERFORMED BY THIS OFFICE IN APRIL OF 2013. THE LIMITS OF THE SURVEY ARE AS ILLUSTRATED ON THESE PLANS.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE ACCURACY OF THE EXISTING TOPOGRAPHY PRIOR TO EARTHWORK OPERATIONS.
12. THE CONTRACTOR SHALL ONLY USE BENCHMARKS AS PROVIDED BY THE ENGINEER.
13. THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. TAKES NO RESPONSIBILITY FOR THE ACCURACY OF UNDERGROUND UTILITIES DEPICTED. LOCATIONS SHOWN WERE TAKEN FROM FIELD SURVEY AND REFERENCE PLANS. THE CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS AND NOTIFY ENGINEER OF ANY CONFLICTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS BEFORE DIGGING.
14. THE CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL TO PROTECT ADJACENT DRAINAGE INLETS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL INSTALL SILT FENCE DOWN SLOPE OF BORING EXCAVATION PITS BETWEEN THE PITS AND THE RIVER. THE CONTRACTOR SHALL HAVE A SUITABLY SIZED EXCAVATION TO CONTAIN DRILLING FLUID OVERFLOW. EROSION PROTECTION SHALL BE REMOVED ONCE WORK AREAS ARE PERMANENTLY STABILIZED.
15. THE CONTRACTOR SHALL RE-ESTABLISH GRASS IN NON-PAVED AND NON-GRAVEL AREAS WITH A MINIMUM 4" COMPACTED THICKNESS OF LOAM.
16. IMPACTS SHOWN ON THIS SHEET ARE TEMPORARY, EXCEPT FOR WITNESS STAKES AND VENTS.
17. WITHIN THE 50' BUFFER ALL WORK WILL BE BY DIRECTIONAL DRILLING WITH NO GROUND SURFACE DISTURBANCE. MINIMAL CUTTING OF BRUSH AND BRANCHES IN A PATH NO WIDER THAN 5' ALONG THE BORING PATH WILL BE DONE TO ENABLE TRACKING OF THE DRILL HEAD.

MAP 112; BLOCK 4; LOT 23

ALAN S. BARTLETT
& SCOTT A. BARTLETT
471 J. BARTLETT ROAD
CONCORD, NH 03301
BK. 3311, PG. 6

MAP 112B; BLOCK 2; LOT 2

JOHN G. & BRIGITTE J. CUMMINGHAM
480 J. BARTLETT ROAD
CONCORD, NH 03301
BK. 2171, PG. 632

MAP 112B; BLOCK 2; LOT 3

BARBARA E. HANCHETT REVOCABLE TRUST
BARBARA E. HANCHETT TRUSTEE
480A J. BARTLETT ROAD
CONCORD, NH 03301
BK. 2390, PG. 691

MAP 1; LOT 32

CONCORD LOUDON LINE SELF STORAGE
7019 JOSIAH BARTLETT ROAD
LOUDON, NH 03307

MAP 112; BLOCK 2; LOT 10

ALAN S. BARTLETT
& SCOTT A. BARTLETT
471 J. BARTLETT ROAD
CONCORD, NH 03301
BK. 3311, PG. 6

MAP 112; BLOCK 2; LOT 11

32.8± ACRES

MAP 1; LOT 66

HOMSI R.A.II, LLC.
84 SUMMITT AVENUE
LACONIA, NH 03246
BK. 2789, PG. 7

MAP 1; LOT 65

KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3109, PG. 526

MAP 1; LOT 5

CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDON DERRY, NH 03258
BK. 3188, PG. 115

VICINITY PLAN

SCALE: 1" = 2,000'±



LEGEND

---	PROPERTY LINE
---	RIVER (REFERENCE LINE)
---	WETLAND
---	CHAIN LINK FENCE
---	STOCKADE FENCE
---	POST & RAIL FENCE
---	GAS LINE
---	DRAINAGE LINE
---	TREELINE
---	EDGE OF PAVEMENT
---	STONEWALL
---	EASEMENT
---	250' SHORLAND DISTRICT BOUNDARY
---	150' WOODLAND BUFFER
---	50' SHORELAND BUFFER
---	FLOOD ZONE LINE
---	TOWN LINE
---	PROPOSED GAS LINE

OVERVIEW PLAN
SOUCOOK RIVER CROSSING FROM
CONCORD TO PEMBROKE

CONCORD, NH (TAX MAP 112; BLOCK 2; LOT 11)
PEMBROKE, NH (MAP 256; LOT 22)
MERRIMACK COUNTY

OWNER OF MAP 112; BLOCK 2; LOT 11:

KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3247, PG. 1239

OWNER OF MAP 256; LOT 22:

CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDON DERRY, NH 03053



KEACH-NORDSTROM ASSOCIATES, INC.

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

REVISIONS

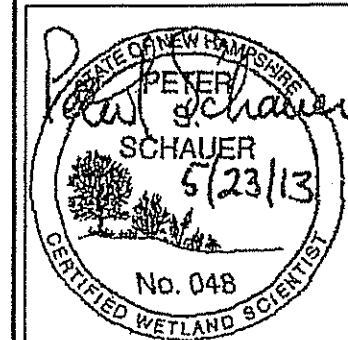
No.	DATE	DESCRIPTION	BY

DATE: MAY 29, 2013

SCALE: 1" = 100'

PROJECT NO: 13-0311-3

SHEET 1 OF 5



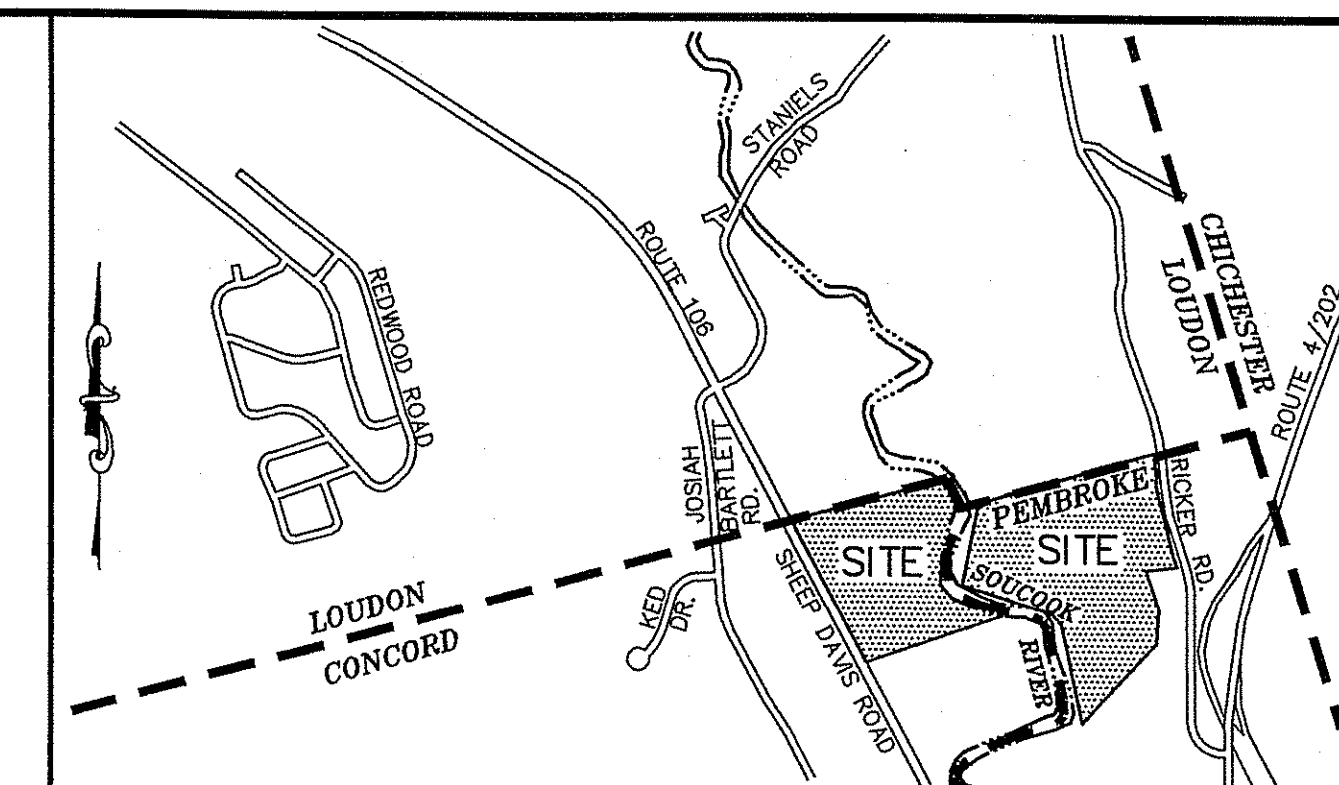
PETER S. SCHAUER, CERTIFIED WETLAND SCIENTIST #48, OF SCHAUER ENVIRONMENTAL CONSULTANTS, L.L.C. OF LOUDON, NH PERFORMED THE WETLAND MAPPING IN APRIL OF 2013 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

GRAPHIC SCALE

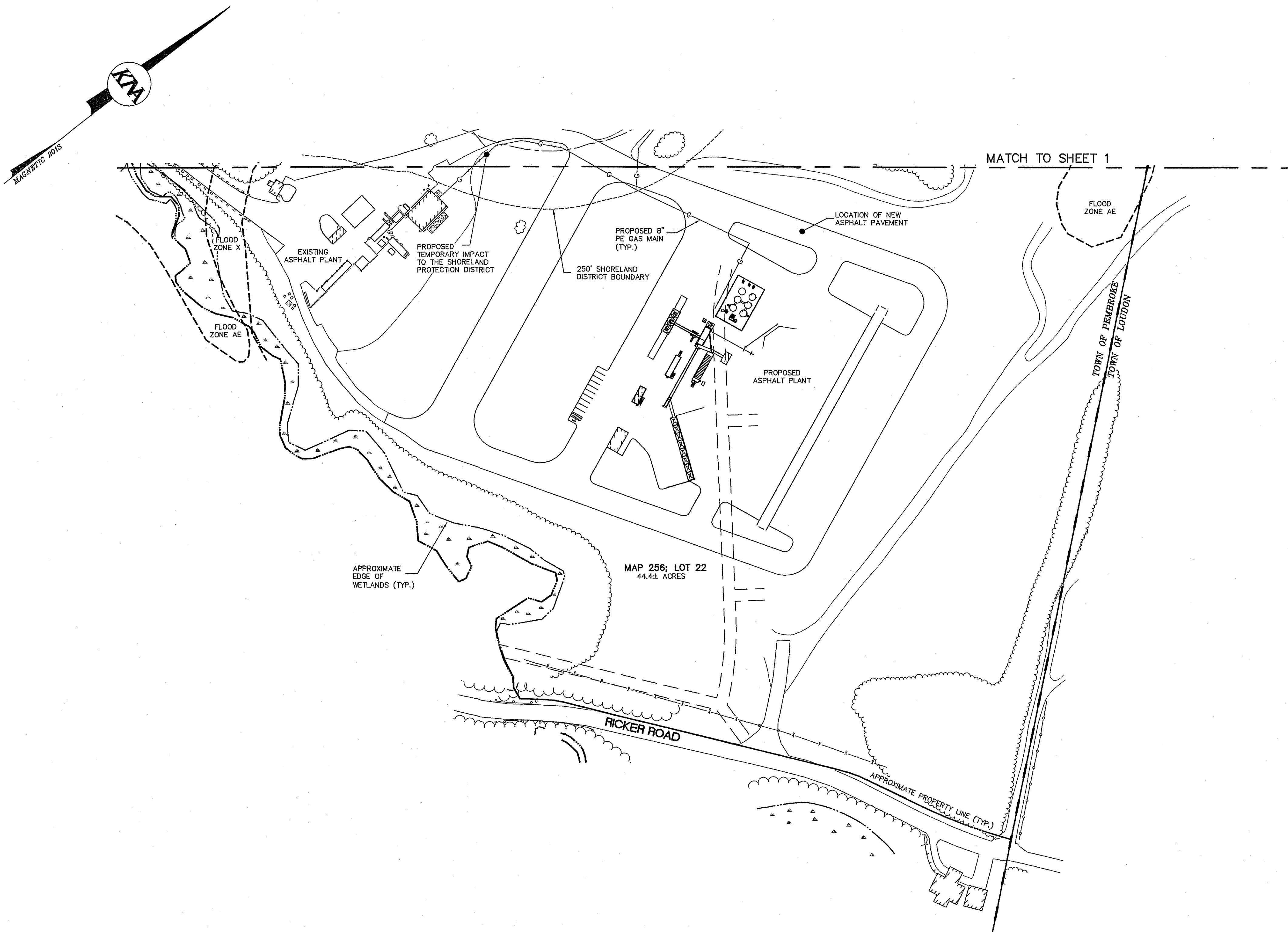


(IN FEET)
1 inch = 100 ft.



















MATCH TO SHEET 2



SEE NOTES ON SHEET 1



LEGEND

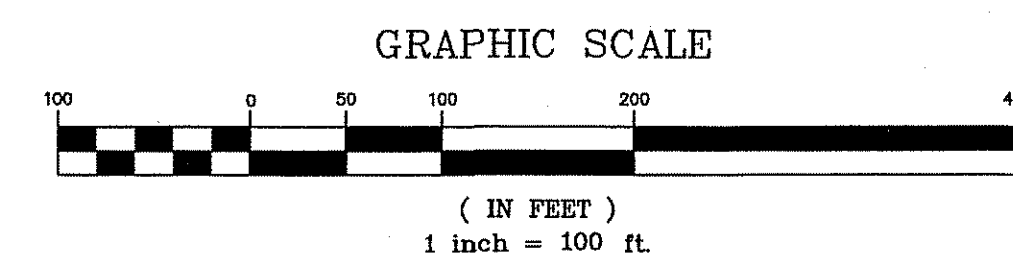
	PROPERTY LINE
	RIVER (REFERENCE LINE)
	WETLAND
	CHAIN LINK FENCE
	STOCKADE FENCE
	POST & RAIL FENCE
	GAS LINE
	DRAINAGE LINE
	TREELINE
	EDGE OF PAVEMENT
	STONEWALL
	EASEMENT
	250' SHORLAND DISTRICT BOUNDARY
	150' WOODLAND BUFFER
	50' SHORELAND BUFFER
	FLOOD ZONE LINE
	TOWN LINE
	PROPOSED GAS LINE

OVERVIEW PLAN
SOUCOOK RIVER CROSSING FROM
CONCORD TO PEMBROKE

CONCORD, NH (TAX MAP 112; BLOCK 2; LOT 11)
PEMBROKE, NH (MAP 256; LOT 22)
MERRIMACK COUNTY

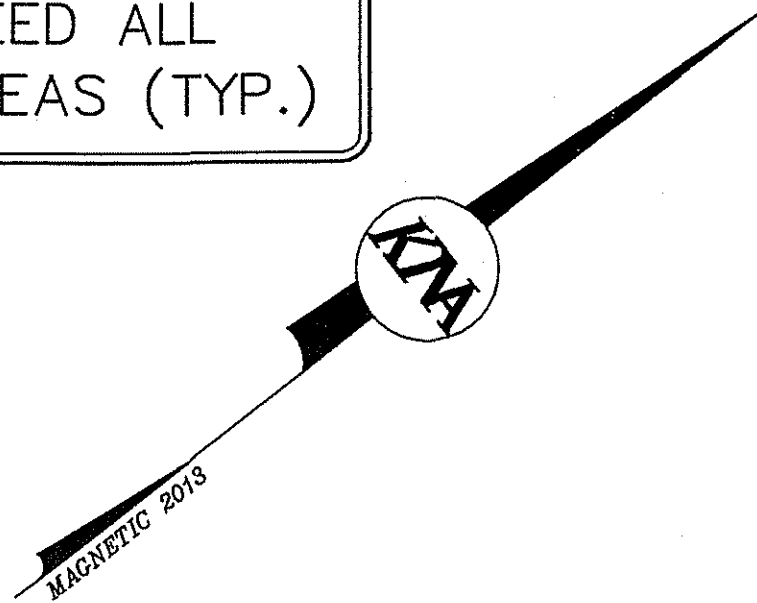
OWNER OF MAP 112; BLOCK 2; LOT 11:
KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3247, PG. 1239

OWNER OF MAP 256: LOT 22:
CONTINENTAL PAVING, INC.
1 CONTINENTAL DRIVE
LONDONDERRY, NH 03053



REVISIONS			
No.	DATE	DESCRIPTION	BY
DATE: MAY 29, 2013		SCALE: 1" = 100'	
PROJECT NO: 13-0311-3		SHEET 2 OF 5	

LOAM & SEED ALL
DISTURBED AREAS (TYP.)



PROPOSED 8" PE
GAS MAIN (TYP.)

VETERANS DRIVE

EXIST. FES
INV.=168.48

EXIST. FES
INV.=167.28

EXIST. CB
RIM=171.02

EXIST. FES
INV.=166.36

EXISTING BUILDING

PROPOSED AREA OF TEMPORARY IMPACT FOR
INSTALLATION OF CROSS COUNTRY GAS MAIN, ACCESS
ROAD FROM VETERANS DRIVE TO THE LOCATION OF THE
HORIZONTAL BORING PITS, AND INSTALLATION OF
HORIZONTAL BORING PITS.
(28,089 SF TOTAL TEMPORARY IMPACT)
(7,777 SF IMPACT IN THE 150' BUFFER)
(20,312 SF IMPACT BETWEEN THE 150' & 250' BUFFER)

LIMIT OF FIELD SURVEY
BY KEACH-NORDSTROM,
ASSOCIATES, INC. (TYP.)

FINAL PATH OF HORIZONTAL
BORE TO BE CONFINED TO
THIS AREA. NO GROUND
DISTURBANCE TO OCCUR
WITHIN THIS AREA. LIMITED
BRUSH AND LIMB REMOVAL
(5' WIDE) FOR TRACKING OF
THE DRILL HEAD.

250' SHORELAND DISTRICT BOUNDARY

150' WOODLAND BUFFER

AREA USED FOR
HORIZONTAL
BORING PITS

FURNISH & INSTALL
TEMPORARY SILT
FENCE (TYP.)

TRANSITION FROM
HORIZONTAL
BORE TO CROSS
COUNTRY GAS
MAIN EXTENSION

PROPOSED 8" PE
GAS MAIN WITHIN
A 12" SLEEVE
CITY OF CONCORD
TOWN OF PEMBROKE

EDGE OF DELINEATED
WETLANDS (TYP.)

TOWN LINE

BOUND

TOWN OF LOUDON

TOWN OF PEMBROKE

TOWN OF LOUDON

TOWN OF PEMBROKE

TOWN OF LOUDON

TOWN OF PEMBROKE

TOWN OF LOUDON

TOWN OF PEMBROKE

TOWN OF LOUDON

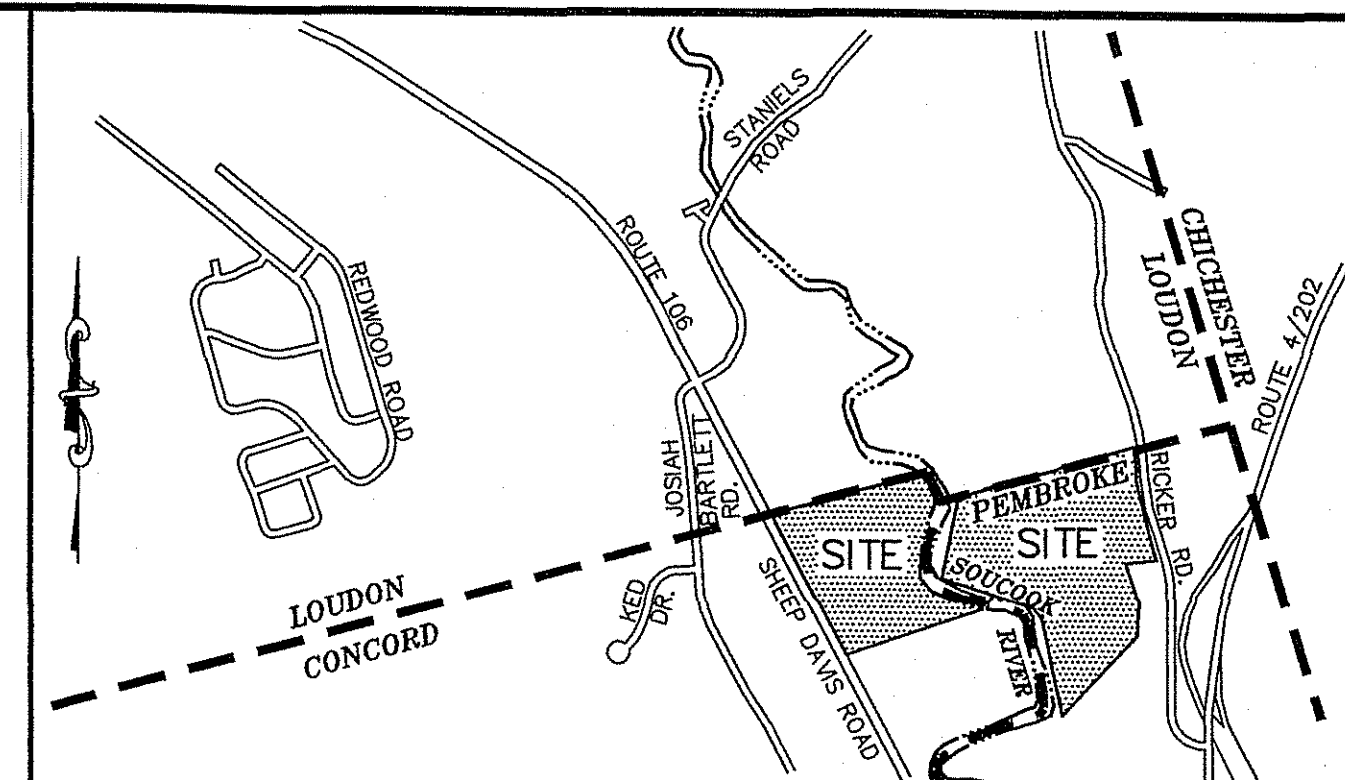
TOWN OF PEMBROKE

TOWN OF LOUDON

TOWN OF PEMBROKE

PROPOSED AREA OF TEMPORARY IMPACT FOR
INSTALLATION OF CROSS COUNTRY GAS MAIN.
(1,135 SF TOTAL TEMPORARY IMPACT)
(528 SF IMPACT IN THE 150' BUFFER)
(607 SF IMPACT BETWEEN THE 150' & 250' BUFFER)

PROPOSED AREA OF TEMPORARY IMPACT FOR
INSTALLATION OF CROSS COUNTRY GAS MAIN AND
INSTALLATION OF HORIZONTAL BORING PITS.
(6,000 SF TOTAL TEMPORARY IMPACT)
(3,534 SF IMPACT IN THE 150' BUFFER)
(2,466 SF IMPACT BETWEEN THE 150' & 250' BUFFER)

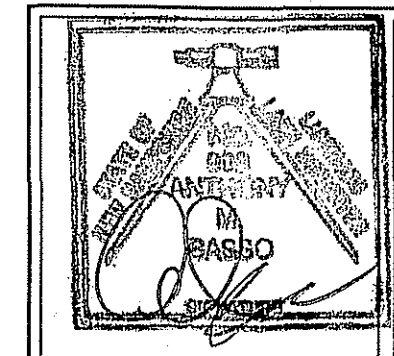


VICINITY PLAN
SCALE: 1" = 2,000'±

SEE SHEET 1 FOR NOTES

LEGEND

- STONE BOUND FOUND
- UTILITY POLE
- GAS VALVE
- WELL
- FLARED END SECTION
- DRAINAGE MANHOLE
- CATCH BASIN
- PROPERTY LINE
- RIVER (REFERENCE LINE)
- WETLAND
- CHAIN LINK FENCE
- STOCKADE FENCE
- POST & RAIL FENCE
- OVERHEAD UTILITIES
- GAS LINE
- DRAINAGE LINE
- TREELINE
- EDGE OF PAVEMENT
- 10' CONTOUR
- 2' CONTOUR
- STONEWALL
- EASEMENT
- SCS SOIL LINE
- 250' SHORLAND DISTRICT BOUNDARY
- 150' WOODLAND BUFFER
- 50' SHORELAND BUFFER
- TOWN LINE
- PROPOSED GAS LINE



I CERTIFY THAT THE TOPOGRAPHIC/EXISTING CONDITIONS
INFORMATION ILLUSTRATED ON THIS PLAN IS THE RESULT OF A
FIELD SURVEY PERFORMED UNDER MY DIRECT SUPERVISION IN
APRIL OF 2013.

5/31/13

SHORELAND IMPACT PLAN
SOUCOOK RIVER CROSSING FROM
CONCORD TO PEMBROKE

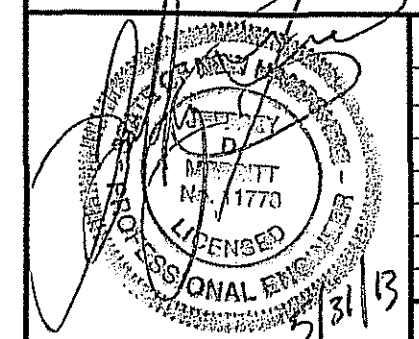
CONCORD, NH (TAX MAP 112; BLOCK 2; LOT 11)
PEMBROKE, NH (MAP 256; LOT 22)
MERRIMACK COUNTY

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KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3247, PG. 1239

OWNER OF MAP 256; LOT 22:
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1 CONTINENTAL DRIVE
LONDONDERRY, NH 03053

KMA 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: MAY 29, 2013 SCALE: 1" = 50'
PROJECT NO: 13-0311-3 SHEET 3 OF 5



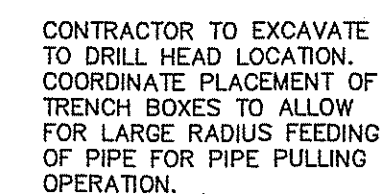
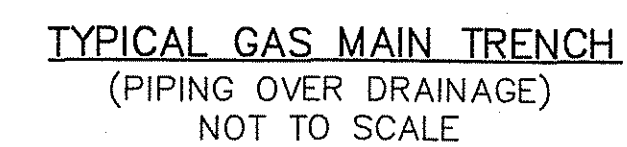
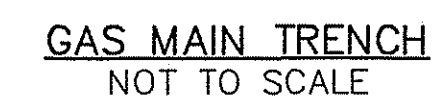
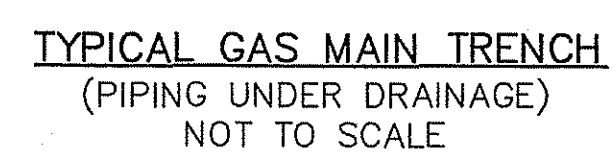
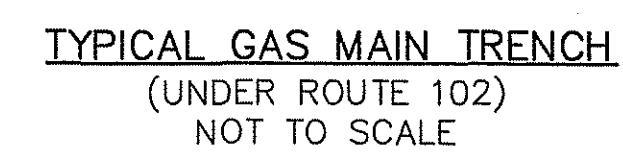
GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

MATCH TO SHEET 4

MATCH TO SHEET 4



CONTRACTOR TO EXCAVATE TO
SLEEVE AND BRING SLEEVE TO
4' RUNNING DEPTH

— BORING MACHINE SETUP
LOCATION

PERSPECTIVE VIEW

10' 0" O.C. (MAX.)

1-3/4" x 1-3/4" x 4' WOOD STAKE, OR APPROVED EQUAL

SILT FENCE MIRAFI 100X, OR APPROVED EQUAL

WORK AREA

FLOW

TOP OF GROUND

6" EMBEDMENT (MIN.)

15' (MIN.)

DOWNHILL SIDE

PLACE 4" OF FABRIC ALONG TRENCH AWAY FROM PROTECTED AREA BACKFILL AND TAMP

CROSS SECTION

WOVEN WIRE FENCE 6"x6"x14.5 GAGE

NON-WOVEN FILTER CLOTH

36" MIN. LENGTH FENCE O.C. MIN.

20" (MIN.)

FLOW

UNDISTURBED GROUND

CONSTRUCTION SPECIFICATIONS:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIE OR STAPLES WHERE NOTED OR AS DIRECTED BY DESIGN ENGINEER.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MIDSECTION AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

MAINTENANCE:

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

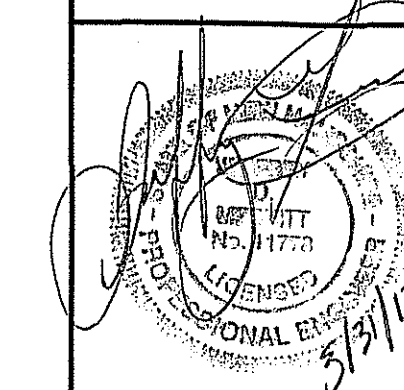
CONCORD, NH (TAX MAP 112; BLOCK 2; LOT 11)
PEMBROKE, NH (MAP 256; LOT 22)
MERRIMACK COUNTY

OWNER OF MAP 112; BLOCK 2; LOT 11:
KARA REALTY ASSOCIATES, LLC.
619 SAND ROAD
PEMBROKE, NH 03275
BK. 3247, PG. 1239

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1 CONTINENTAL DRIVE
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[illegible]

DATE: MAY 29, 2013

PROJECT NO: 13-0311-3

SCALE: AS NOTED

SHEET 5 OF 5