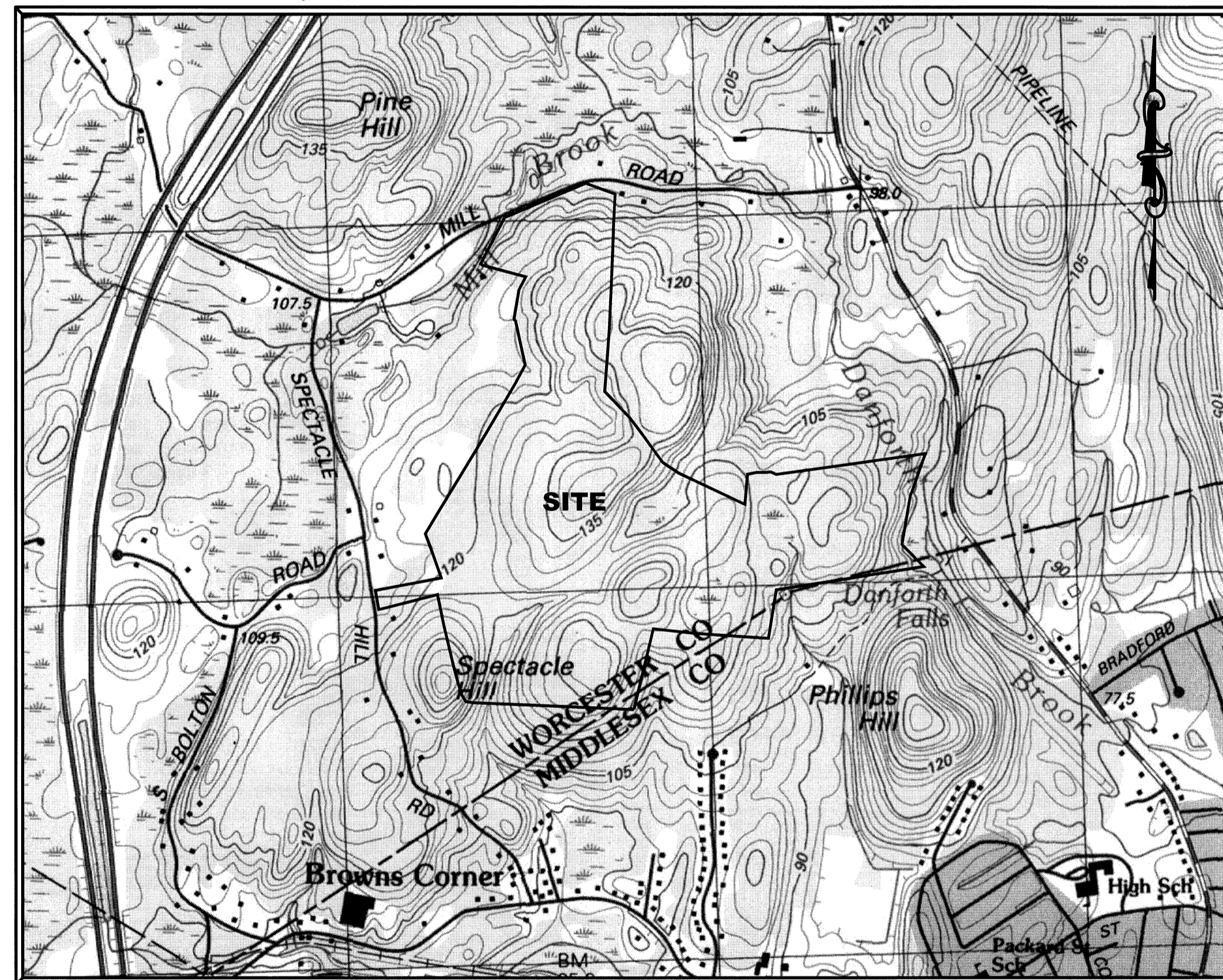
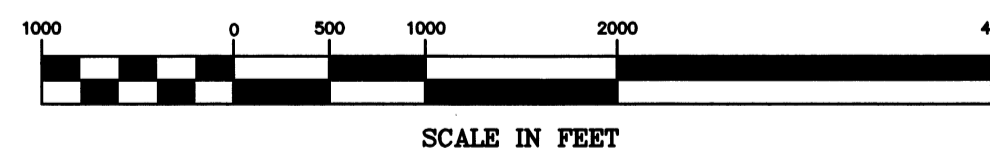


PLANS FOR A DEFINITIVE SUBDIVISION OF LAND IN BOLTON CENTURY MILL ESTATES BOLTON, MASSACHUSETTS JANUARY 26, 2007 (LAST REVISED OCTOBER 22, 2007) (MODIFIED LOT LAYOUT – APRIL 2014)



LOCUS PLAN
SCALE : 1"=1000'



LIST OF WAIVERS

WAIVERS REQUESTED FROM THE BOLTON SUBDIVISION RULES & REGULATIONS:

1. SECTION 4230: BENCHMARK ELEVATIONS ARE TO BE BASED UPON NGVD OF 1929.
2. SECTION 4240: EXISTING AND PROPOSED TOPOGRAPHY TO BE SHOWN AT A ONE FOOT CONTOUR INTERVAL.
3. SECTION 5222(e): PROPERTY LINES AT STREET INTERSECTIONS SHALL BE ROUNDED.
4. SECTION 5223: MINIMUM PAVEMENT WIDTH OF 24' FOR MINOR STREETS AND LANES.
5. SECTION 5225: DEAD END STREETS SHALL NOT BE LONGER THAN 500 FEET.
6. SECTION 4230(b): A TABLE SHALL LIST STRUCTURE INVERTS, RIM ELEVATIONS, STATION NUMBERS, SIZE AND SLOPES OF PIPES.
7. SECTION 5226: AT NO POINT SHALL THE CENTERLINE OF A PROPOSED SUBDIVISION ROAD BE LESS THAN 75 FEET FROM ANY LOT LINE NOT PART OF THE PROPOSED SUBDIVISION.
8. SECTION 5222(a): THE CENTERLINE OF THE PAVEMENT SHALL COINCIDE WITH THE CENTERLINE OF THE WAY.
9. SECTION 6241: EMBANKMENTS OUTSIDE THE RIGHT-OF-WAY SHALL BE EVENLY GRADED AND PITCHED AT A SLOPE OF NOT GREATER THAN 4:1 (H:V) HORIZONTAL TO VERTICAL.
10. SECTION 6252: A GRASS PLOT (OR SHOULDER) 5 FEET WIDE (MINIMUM) SHALL BE PROVIDED BETWEEN THE CURBING AND SIDEWALK AREAS.
11. SECTION 5210: CLASSIFICATION OF STREETS.

WAIVERS REQUESTED FROM THE BOLTON ZONING BYLAWS:

1. ZONING SECTION 2.3.5.7: THE SHAPE OF ALL LOTS SHALL CONFORM TO THE LOT SHAPE FORMULA. A WAIVER IS BEING REQUESTED FROM THE LOT SHAPE REQUIREMENT FOR LOT 35 ONLY.

INDEX TO DRAWINGS

| SHEET NO. | DESCRIPTION |
|-----------|--------------------------|
| 1 | COVER |
| 2 | KEY, LEGEND & NOTES PLAN |
| 3 | PROPERTY PLAN |
| 4-17 | LOT LAYOUT PLAN |

ZONING REQUIREMENTS

ZONING DISTRICT – RESIDENTIAL

FOSPRD ZONING LOTS

| | |
|--------------------------|--------|
| MINIMUM LOT AREA | 1 ACRE |
| MINIMUM LOT SHAPE | > 0.5 |
| MINIMUM LOT FRONTAGE | 25 FT |
| MINIMUM FRONT YARD | 50 FT |
| MINIMUM SIDE & REAR YARD | 20 FT |

| NO. | DATE | DESCRIPTION | BY |
|-----|------------|--|--------|
| 10 | 04/15/2014 | TRAIL EASEMENT | R.P.L. |
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | FOR NOI SUBMITTAL | J.R.D. |

APPLICANT

CENTURY MILL LIMITED PARTNERSHIP
209 CENTRAL STREET, SUITE 218
NATICK, MA 01760

OWNER

CENTURY MILL LIMITED PARTNERSHIP
209 CENTRAL STREET, SUITE 218
NATICK, MA 01760

OWNER

RINA BONAZZOLI TRUST
BONAZZOLI FAMILY TRUST
111 HUDSON STREET
BOLTON, MA 01740

OWNER

PIERINO A. BONAZZOLI
111 HUDSON STREET
BOLTON, MA 01740

OWNER

DAVIS FARMS TRUST
P.O. BOX 305
BOLTON, MA 01740

OWNER

LARKIN LUMBER COMPANY
136 MAIN STREET
HUDSON, MA 01749

OWNER

DAVID F. LAMSON
29 LAKE STREET
HUDSON, MA 01749

ENGINEER / SURVEYOR

GCG ASSOCIATES, INC.
84 MAIN STREET
WILMINGTON, MA 01887



SHEET 4,32

SHEET 5,35

SHEET 6,34

SHEET 8,36

SHEET 7,35

SHEET 9,37

SHEET 10,38

SHEET 16,44

SHEET 13,41

SHEET 11,39

SHEET 12,40

SHEET 15,43

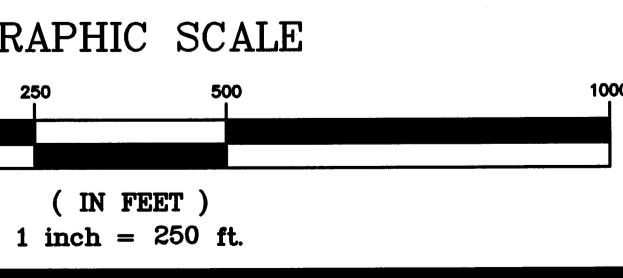
SHEET 17,45

GENERAL NOTES:

- 1.) OPEN SPACE SHALL CONSIST OF PARCELS OS-1, OS-2, OS-3 & OS-4 WHICH COMBINE FOR A TOTAL OPEN SPACE AREA OF 100.18 ACRES.
- 2.) REASONABLE EFFORTS SHALL BE MADE TO PRESERVE AND/OR RELOCATE EXISTING STONE WALLS WHERE POSSIBLE DURING CONSTRUCTION.
- 3.) SPEED LIMIT SIGNS SHALL BE PLACED ON EACH OF THE THREE SUBDIVISION ROADS. ROAD A SHALL HAVE A SPEED LIMIT OF 30 MPH AND ROADS B & C SHALL HAVE A 20 MPH SPEED LIMIT.

LINE & SYMBOL LEGEND

| | | | |
|------------|---|---|---|
| --- | Q OF INTERMITTENT STREAM | ○ | SHRUB |
| --- | STREAM | ○ | DECIDUOUS TREE |
| --- | RESOURCE BOUNDARY | ○ | ROCK |
| --- | MEAN ANNUAL HIGH WATER LINE | ○ | CATCH BASIN |
| --- | INTERMITTENT STREAM BANK | ○ | UTILITY POLE |
| --- | FEMA 100YR FLOOD ZONE | ○ | YARD LIGHT |
| --- | PONDING AREA | ○ | POLE |
| ● WF A39 | WETLAND FLAG | ○ | POST |
| △ WF VPA67 | PONDING AREA FLAG | ○ | RESIDENTIAL MAIL BOX |
| ○ T&I | MEAN ANNUAL HIGH WATER FLAG | ○ | SPOT HEIGHT |
| ○ R&I | INTERMITTENT STREAM FLAG | ○ | STONE WALL |
| X WF J24 | BORDERING LAND SUBJECT TO FLOODING | ○ | CULVERT HEAD WALL |
| --- | ISOLATED LAND SUBJECT TO FLOODING | ○ | INTERMEDIATE CONTOUR |
| --- | 100' BUFFER ZONE (STATE/TOWN) | ○ | INDEX CONTOUR |
| --- | 100' BUFFER ZONE (TOWN) | ○ | PROPERTY LINE |
| --- | 200' RIVERFRONT AREA | ○ | PAVED ROAD |
| --- | WATER RESOURCE PROTECTION DISTRICT (WRPD) & 25' NO DISTURB ZONE | ○ | BUILDING |
| ☆ | STREET LIGHT | ○ | TREE LINE |
| + | UTILITY POLE | ○ | SHRUB LINE |
| + | SIGN | ○ | UNDERGROUND ELECTRIC, TELEPHONE & CABLE |
| + | STREET TREE | ○ | HAYBALES & SILTFENCE |
| VGC | VERTICAL GRANITE CURB | ○ | RIP RAP |
| CCB | CAPE COD BERM | ○ | STORMWATER QUALITY CHAMBER |
| | | ○ | DRAIN MANHOLE & PIPE |
| | | ○ | CATCH BASIN |
| | | ○ | DOUBLE GRATED CATCH BASIN |
| | | ○ | GUARDRAIL |



ZONE 1 PARCEL

ZONE 1 ACCESS PARCEL

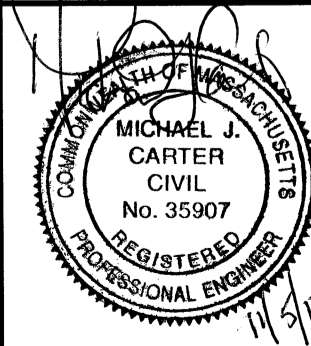
OPEN SPACE (OS-3)

OPEN SPACE (OS-1)

OPEN SPACE (OS-2)

OPEN SPACE (OS-4)

| NO. | DATE | DESCRIPTION | BY |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

KEY, LEGEND & NOTES PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=250' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD-KEY.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: L.J.W.

PLAN NO. 2 OF 64

LIST OF ABUTTER'S (WITHIN 500' OF PROJECT BOUNDARY)

| HUDSON | | BOLTON | |
|------------|---------------------------------------|------------|--------------------------------|
| MAP/PARCEL | RECORD OWNER* | MAP/PARCEL | RECORD OWNER* |
| 09-079 | ANDREW DALBO | 3.C-40.1 | SMITH REALTY TRUST |
| 09-078 | LARRY RUMMERFIELD & MARIA F MORIAS | 3.D-8 | PAUL SLADE |
| 09-032 | JULIANT REALTY TRUST | 3.D-34 | JAMES OWEN & JENNIFER STEWART |
| 09-084 | JAMES GASEK & MEGHAN MURPHY | 3.D-35 | ELAINE COLACCHIO |
| 09-083 | JEFFREY & JEAN WAGNER | 3.C-41.1 | LEDYARD SMITH |
| 09-082 | RICHARD & LISA GUERIN | 3.D-31 | ANDREW & ANDREA GILBERT |
| 09-081 | CRAIG & LINDA HEINONEN | 3.D-6 | RICHARD & LISA CONNAUGHTON |
| 09-080 | JOSE & BELMIRA CARVALHO | 3.D-2A | DANIEL & CAROL SWEENEY |
| 09-024 | DAVID & DIANE DYKES | 2.D-20 | AUGUST & DEBORAH BONAZZOLI |
| 09-085 | MARK & LORI REGIS | 3.D-2 | ALISON HUNT & ROBERT COLCLA |
| 09-086 | JOHN & DIANE O'SHAUGHNESSY | 3.D-30 | ALISON HUNT & ROBERT COLCLA |
| 09-087 | GARY & CLARE HOVNIANIAN | 3.C-34 | APPLEROCK REALTY TRUST |
| 09-088 | PAREENDER & SONIA BAGGA | 3.C-67 | STEPHEN & MARY CENTORINO |
| 02-002 | JOHN & SUSAN DRUMMEY | 3.C-68 | APPLEROCK REALTY TRUST |
| 02-003 | JOHN PETROVICH, JR & BERNICE CHANDLER | 3.C-69 | APPLEROCK REALTY TRUST |
| 02-004 | FREDRICK & MARYBETH DOLAN | 2.D-5 | H JOHNSON & L KEEFE & B PASCOE |
| 02-005 | JOHN & BEVERLY CANFIELD-WOODS | 2.C-23 | HARLAND & MILDRED FULLAM |
| 10-047 | MARK & DEBORAH ANDERSON | 2.D-26 | BOLTON MEADOWS LLC |
| 10-058 | BRAIN & CATHY FORTIN | 2.C-30 | MARK & ELAINE KAHAN |
| 03-015 | CHARLOTTE JOHNSON | 2.C-30.1 | MARTIN & ALEIDA DEJONG FELICE |
| 03-021 | MARY ARSENAULT | 2.C-73 | MICHAEL & REBECCA MALONE |
| 03-020 | THE SMITH/TAYLOR NOMINEE TRUST | 2.D-6 | STEWARTIA LLC |
| 03-005 | RUTH & MICHAEL MANGINI | 2.D-8 | KAREN THURSTON |
| 03-006 | BRYAN & JACQUELINE JOHANNES | 2.D-41 | HANG & MIN ZHANG |
| 03-002 | TINA ORDWAY | 2.D-36 | DAOHONG & YAN WANG |
| 03-004 | TOWN OF HUDSON | 2.D-22 | EUGENE & LINDA GREGERSON |
| 03-035 | FALLS BROOK REALTY TRUST | 2.D-51 | BOLTON CONSERVATION COMMISSION |
| 03-036 | FALLS BROOK REALTY TRUST | 2.D-52 | BOLTON CONSERVATION COMMISSION |
| 03-037 | MICHAEL JONES & SHARON FOSTER | 2.C-72 | CAROLE & JOHN ELBIN |
| 03-038 | DAVID & KAREN KENNEDY | 2.C-70 | SUSAN MCKEEN |
| 03-034 | FALLS BROOK REALTY TRUST | 2.C-69 | GARY & CHERYL FEELEY |
| 03-039 | MICHAEL & THERESA KAHN | 2.D-19 | WALTER & SHIRLEY HANSEN |
| 03-040 | JOSEPH & MARCIA MITCHELL | 2.D-24 | K&L HOLDING LLC |
| 03-041 | MICHAEL & REECA HANSEN | 2.C-71 | TIMOTHY & ELIZABETH MCGILVRAJ |
| 03-033 | BRADFORD & HALLIE WRIGHT | 2.D-3 | TOWN OF BOLTON |
| 03-032 | DAVID & SUZANNE GOYETTE | 2.D-18 | PETER & CAROL KISLIUK SCOTT |
| 03-031 | JOEL & HYE-KYUNG HUANG | 2.D-17 | JOSEPH & MARLENE THOMAS |
| 03-030 | ANSARI BUILDERS, INC. | 2.D-16 | ROGER & WENDY BARTON |
| 03-042 | CHRISTOPHER & MICHELLE GRAHAM | 2.C-22 | SUZANNE BECKER |
| 03-025 | FALLS BROOK REALTY TRUST | 2.C-24 | ARTHUR & JEAN WEST |
| 03-026 | JOSEPH & CYNTHIA COSTABILE | 2.D-2 | JOHNSON REALTY TRUST |
| 03-027 | WILLIAM & NATHALIE LYONS | 2.D-23 | MARY ARSENAULT |
| 03-028 | INAAM SALEM | 2.D-1 | TINA ORDWAY |
| 03-029 | MICHAEL & JUDITH HIRST | 2.C-43 | GINA & JAMES PORTESI |
| | | 2.C-24.1 | DONNA MELANSON |
| | | 2.C-21 | MARGARET & STAN SMITH |
| | | 2.C-25.2 | DENIS & NANCY HUNT |
| | | 2.C-40 | LONA LAMSON |
| | | 2.C-25.3 | DONALD & DIANE CROSSMAN |
| | | 2.C-15.1 | P. & E. BONAZZOLI FAMILY TRUST |
| | | 2.C-41 | PHILIP & JOYCE FOURNIER |
| | | 2.C-25.5 | THOMAS & ELAINE GODDARD |
| | | 2.C-25.6 | STEPHEN & KAREN GARNER |
| | | 2.C-42 | GEORGE GIROUARD |
| | | 2.D-25 | JOHN & BEVERLY WOODS |
| | | 2.D-12 | ANDREW DALBO |
| | | 2.C-26 | PAUL NEWELL |
| | | 2.C-25.7 | GEORGE & LORRAINE KENNEY |
| | | 2.C-20 | LEAH LAMSON |
| | | 2.C-25.8 | JAMES KEARNEY |
| | | 2.C-25 | DUSTIN & LYNNE SHELTON |
| | | 2.C-28 | RICHARD & LISA MITCHELL |
| | | 1.C-42 | KENNETH & HEIDI ELWORTHY |
| | | 1.C-43 | KENNETH & HEIDI ELWORTHY |
| | | 1.C-34 | KENNETH & HEIDI ELWORTHY |
| | | 1.C-32 | JAMES & ELLEN KEATS |
| | | 3.C-38 | A. LEDYARD & JACQUELIN SMITH |
| | | 2.D-15 | AUGUST & DEBORAH BONAZZOLI |
| | | 1.C-28 | TERZON TROMBETTA |

LOCUS INFORMATION

| MAP/PARCEL | RECORD OWNER* | DEED BOOK/PAGE** |
|---------------|----------------------------------|------------------|
| BOLTON | | |
| 2.C-25.4 | RINA BONAZZOLI | 5068/290 |
| 2.C-29 | DAVIS FARM TRUST | 4907/521 |
| 2.D-4 | DAVIS FARM TRUST | 4907/521 |
| 2.D-7 | PRINO BONAZZOLI | 4902/451 |
| 3.D-1 | CENTURY MILL LIMITED PARTNERSHIP | 26996/375 |
| 2.D-13 | HELEN D. LAMSON | 6499/121 |
| 2.D-14 | LARKIN LUMBER CO | 1898/48 |
| HUDSON | | |
| 3-1 | JONATHAN DAVIS & JOHN M DAVIS | 4907/521 |
| 9-63 | LARKIN LUMBER CO. INC. | 1898/48 |
| 2-1 | PRINO BONAZZOLI | 4902/451 |

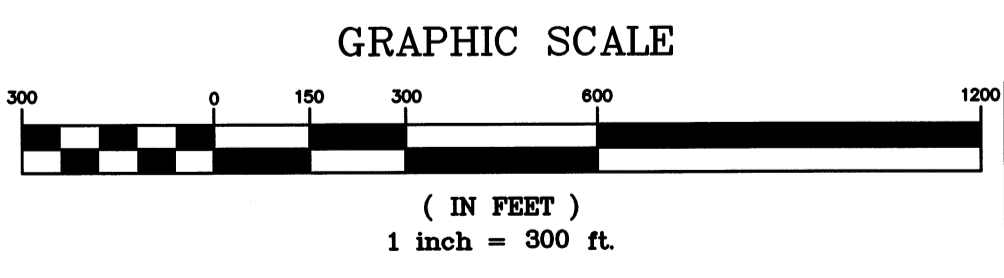
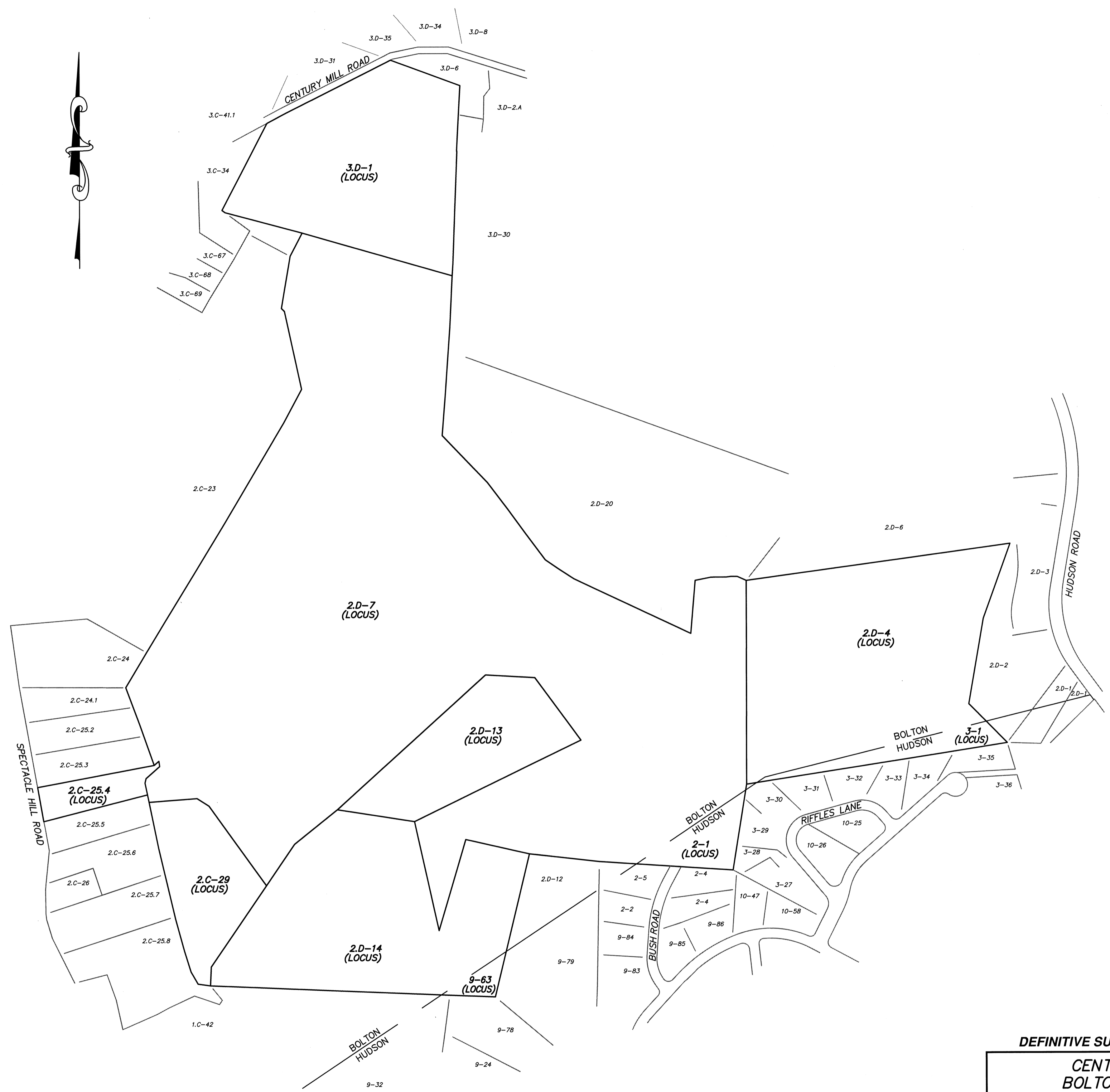
* - NAMES AS THEY APPEAR ON CERTIFIED ABUTTER'S LIST

PLAN REFERENCES

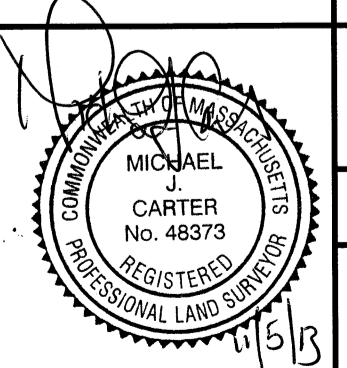
| PLAN BOOK | PLAN |
|-----------|------|
| 13,942 | END |
| 702 | 27 |
| 703 | 60 |
| 274 | 115 |
| 111 | 93 |
| 285 | 122 |
| 24,618 | 300 |
| 25,742 | 398 |
| 27,448 | 28 |
| 61 | 125 |
| 565 | 26 |
| 30,613 | 383 |
| 331 | 111 |
| 905 | 104 |
| 905 | 105 |

I CERTIFY THAT THE PERIMETER OF THE PROPERTY SHOWN WAS PREPARED FROM AN ACTUAL FIELD SURVEY AND THE LATEST DEEDS AND PLANS OF RECORD. I ALSO CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.

REG. LAND SURVEYOR _____ DATE _____



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

PROPERTY PLAN

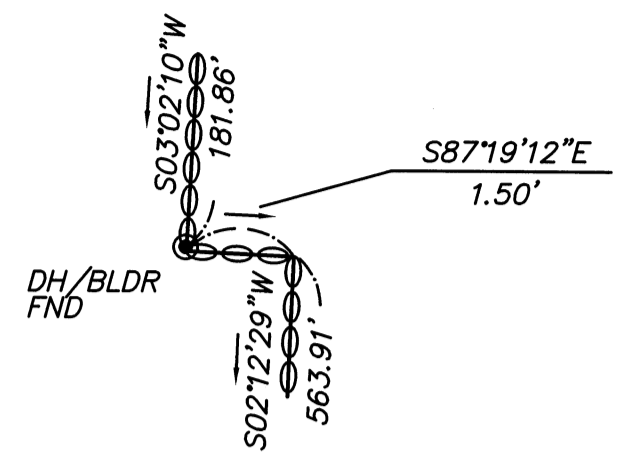
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=300' DATE: JANUARY 26, 2007

| | | |
|---|---|---------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD- PROPERTY.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W. | PLAN NO. 3 OF 64 |
|---|---|---------------------|



MILL BROOK



DETAIL
N.T.S.

N/F
SMITH

N/F
APPLEROCK
REALTY TR.

N/F
GILBERT

N/F
COLACCHIO

N/F
OWEN & STEWART

N/F
SLADE

N/F
CONNAUGHTON

DH(F)
DISTURBED

DH(F)
S87°19'12\"/>

CENTURY MILL ROAD
(PUBLIC-VARIABLE WIDTH)

LOT 1A
77,543 S.F. ±
1.78 ACRES ±
SHAPE FACTOR=0.85
TOTAL FRONTAGE=376.13'

LOT 76A
49,295 S.F. ±
1.13 ACRES ±
SHAPE FACTOR=0.88
TOTAL FRONTAGE=191.24'

LOT 75A
69,814 S.F. ±
1.60 ACRES ±
SHAPE FACTOR=0.66
TOTAL FRONTAGE=46.13'

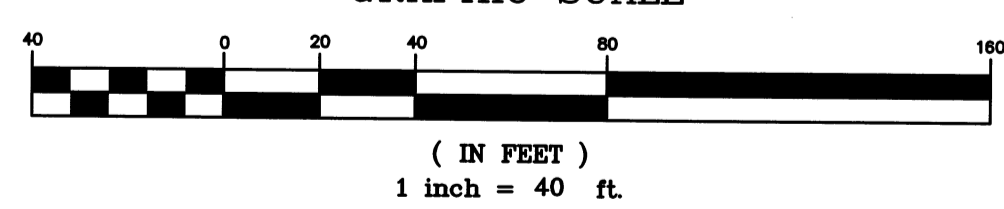
LOT 77A
60,815 S.F. ±
1.40 ACRES ±
SHAPE FACTOR=0.52
TOTAL FRONTAGE=25.78'

LOT 78A
49,230 S.F. ±
1.13 ACRES ±
SHAPE FACTOR=0.78
TOTAL FRONTAGE=163.35'

LOT 2A
57,019 S.F. ±
1.31 ACRES ±
SHAPE FACTOR=0.67
TOTAL FRONTAGE=167.43'

MATCHLINE - SHEET 4
MATCHLINE - SHEET 5

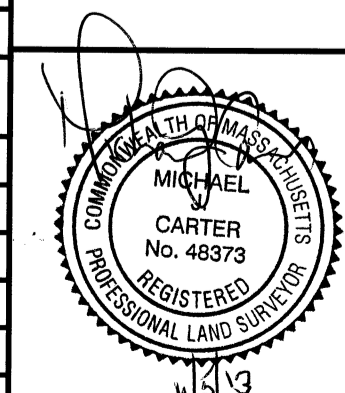
GRAPHIC SCALE



LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
- SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
- DH(F) - DRILL HOLE FOUND
- IP(F) - IRON PIPE FOUND
- IR(F) - IRON ROD FOUND

| NO. | DATE | DESCRIPTION | BY |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

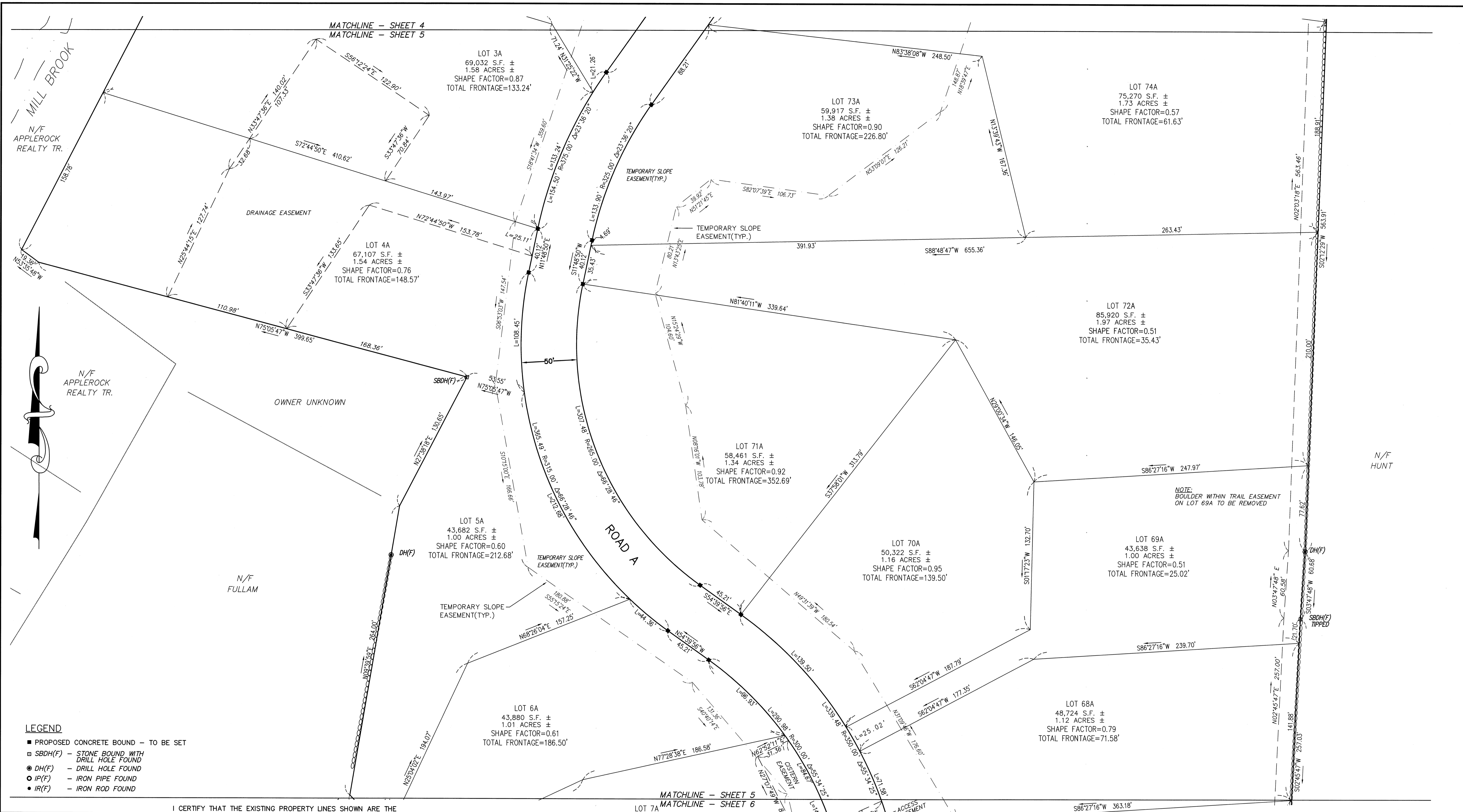
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

LOT LAYOUT PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

| | | |
|---|---|---------------------|
| JOB NO. FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W. | PLAN NO. 4 of 64 |
|---|---|---------------------|



LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
- SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
- DH(F) - DRILL HOLE FOUND
- IP(F) - IRON PIPE FOUND
- IR(F) - IRON ROD FOUND

I CERTIFY THAT THE EXISTING PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIP AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR DIVISION OF OWNERSHIP OR FOR NEW WAYS ARE SHOWN. CHAPTER 380 ACTS OF 1966 (M.G.L. CH. 41, SEC. 81X)

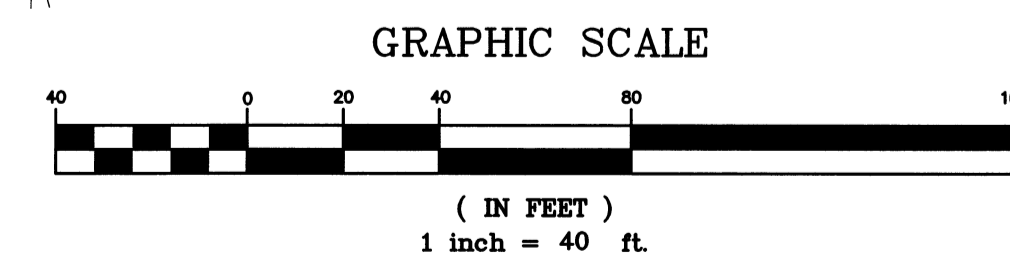
I CERTIFY THAT BOUNDARIES SHOWN ON THIS PLAN WERE DETERMINED FROM EXISTING DEEDS AND PLANS OF RECORD.

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

MICHAEL J. CARTER, P.L.S. #48373

DATE:



**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

PLAN OF LAND

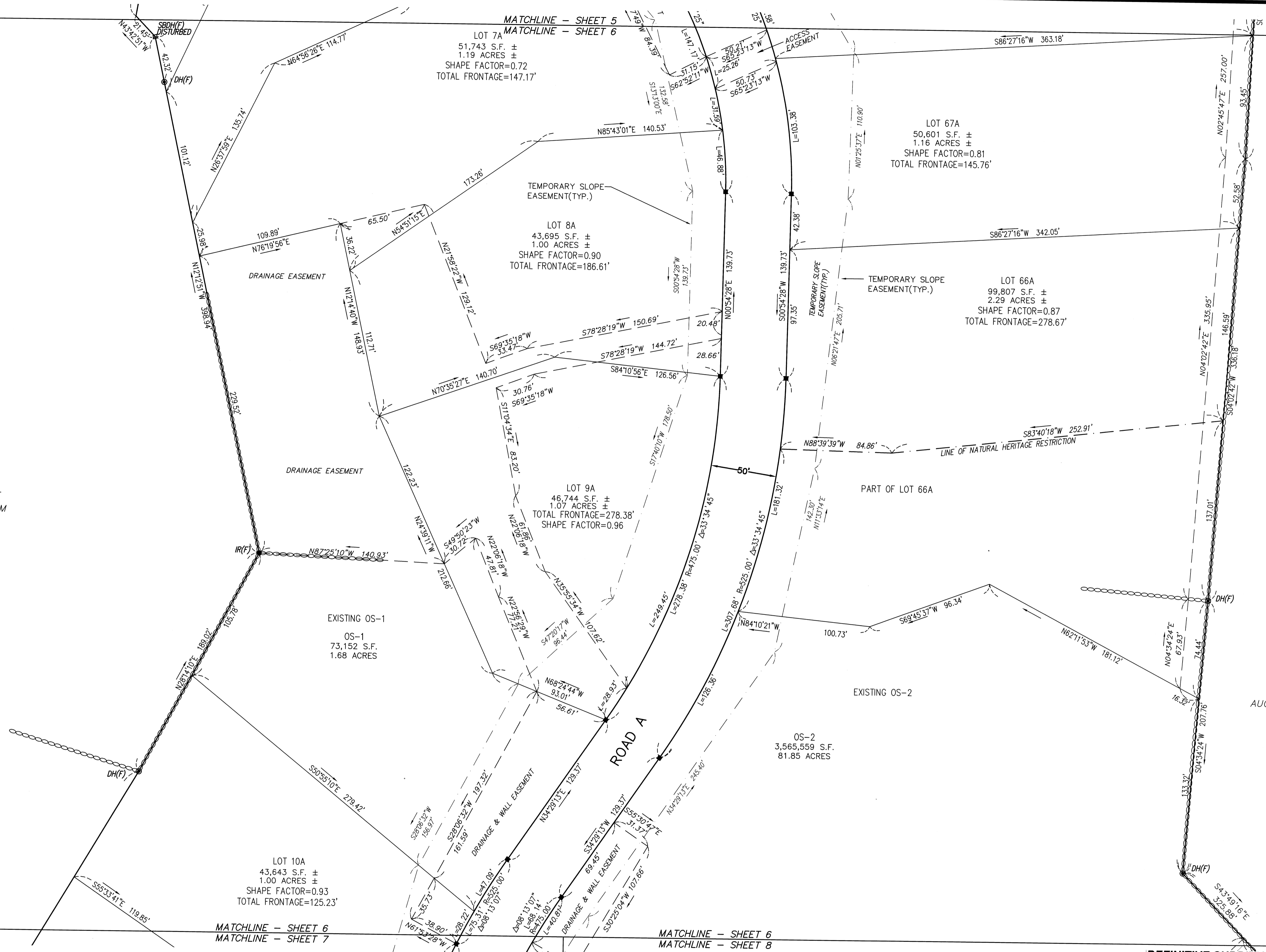
GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: APRIL 15, 2014

| | | |
|--|---|---------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ RECORD-2-LOTING.DWG | DESIGNED BY: H.M.C. DRAWN BY: H.M.C. CHECKED BY: M.J.C. | PLAN NO. 5 of 17 |
|--|---|---------------------|

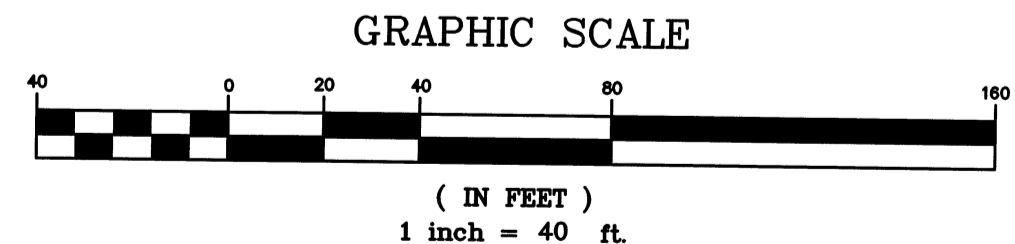
FOR REGISTRY USE ONLY



N/F FULLAM

N/F HUNT

N/F AUGUST BONAZZOLI, JR.



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

LOT LAYOUT PLAN

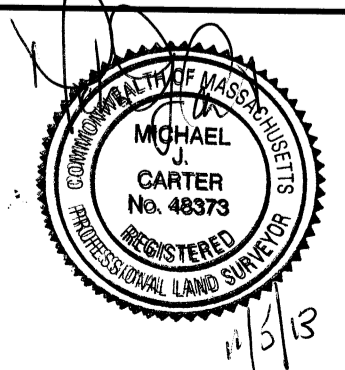
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD LOTTING.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: L.J.W.

PLAN NO.
6 of 64

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |





LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
- SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
- DH(F) - DRILL HOLE FOUND
- IP(F) - IRON PIPE FOUND
- IR(F) - IRON ROD FOUND

I CERTIFY THAT THE EXISTING PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIP AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR DIVISION OF OWNERSHIP OR FOR NEW WAYS ARE SHOWN. CHAPTER 380 ACTS OF 1966 (M.G.L. CH. 41, SEC. 81X)

I CERTIFY THAT BOUNDARIES SHOWN ON THIS PLAN WERE DETERMINED FROM EXISTING DEEDS AND PLANS OF RECORD.

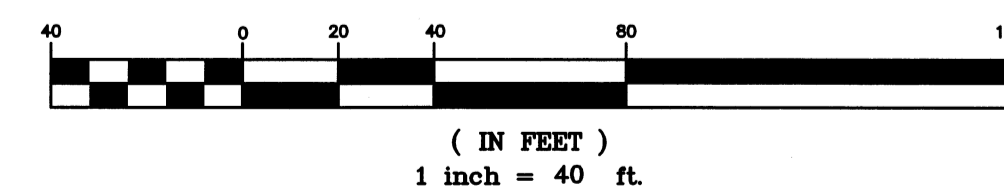
I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

MICHAEL J. CARTER, P.L.S. #48373

DATE:

GRAPHIC SCALE



**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

PLAN OF LAND

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: APRIL 15, 2014

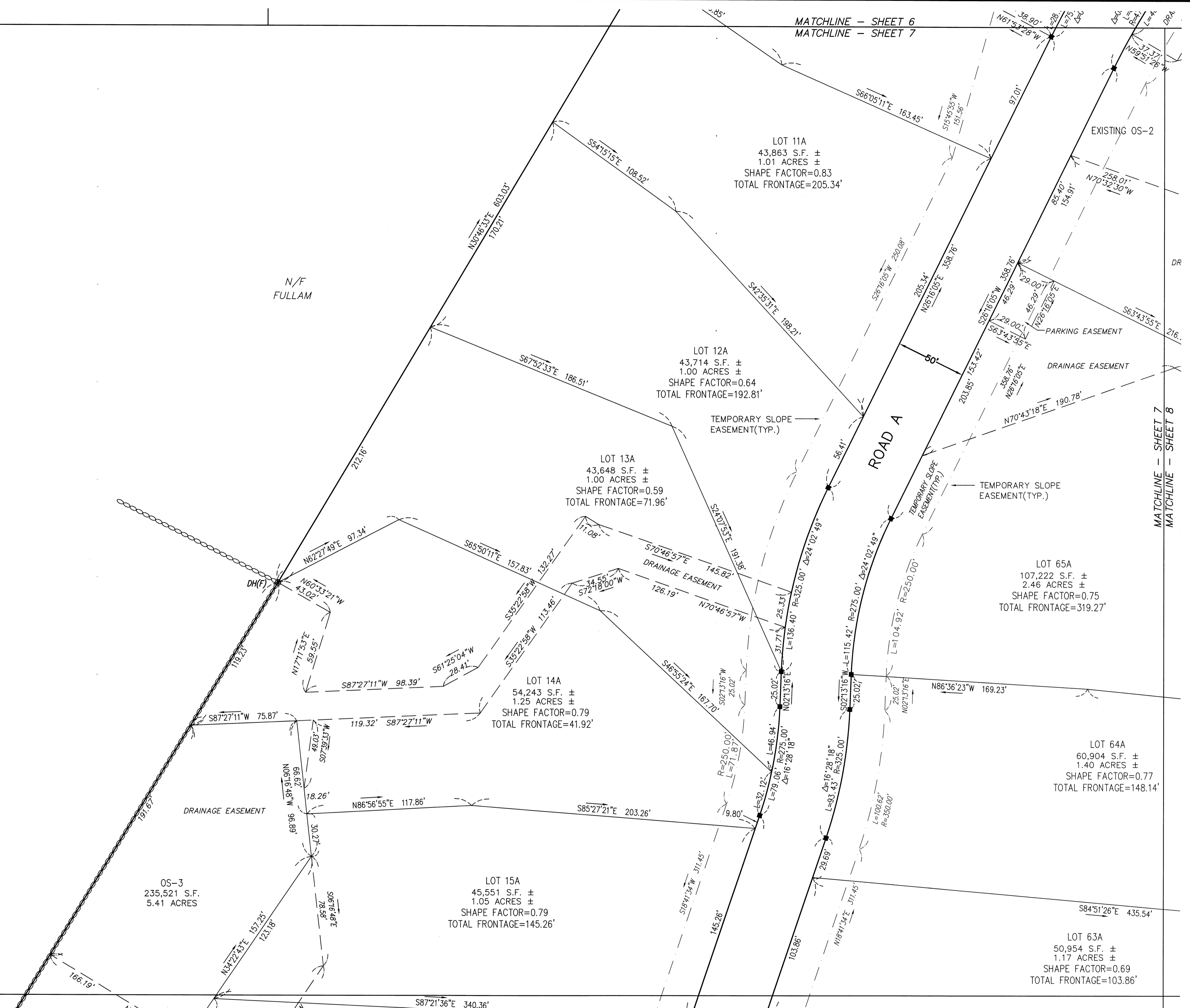
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|--|---|---------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ RECORD-2-LOTING.DWG | DESIGNED BY: H.M.C. DRAWN BY: H.M.C. CHECKED BY: M.J.C. | PLAN NO. 7 of 17 |
|--|---|---------------------|

FOR REGISTRY USE ONLY

MATCHLINE - SHEET 7
MATCHLINE - SHEET 9

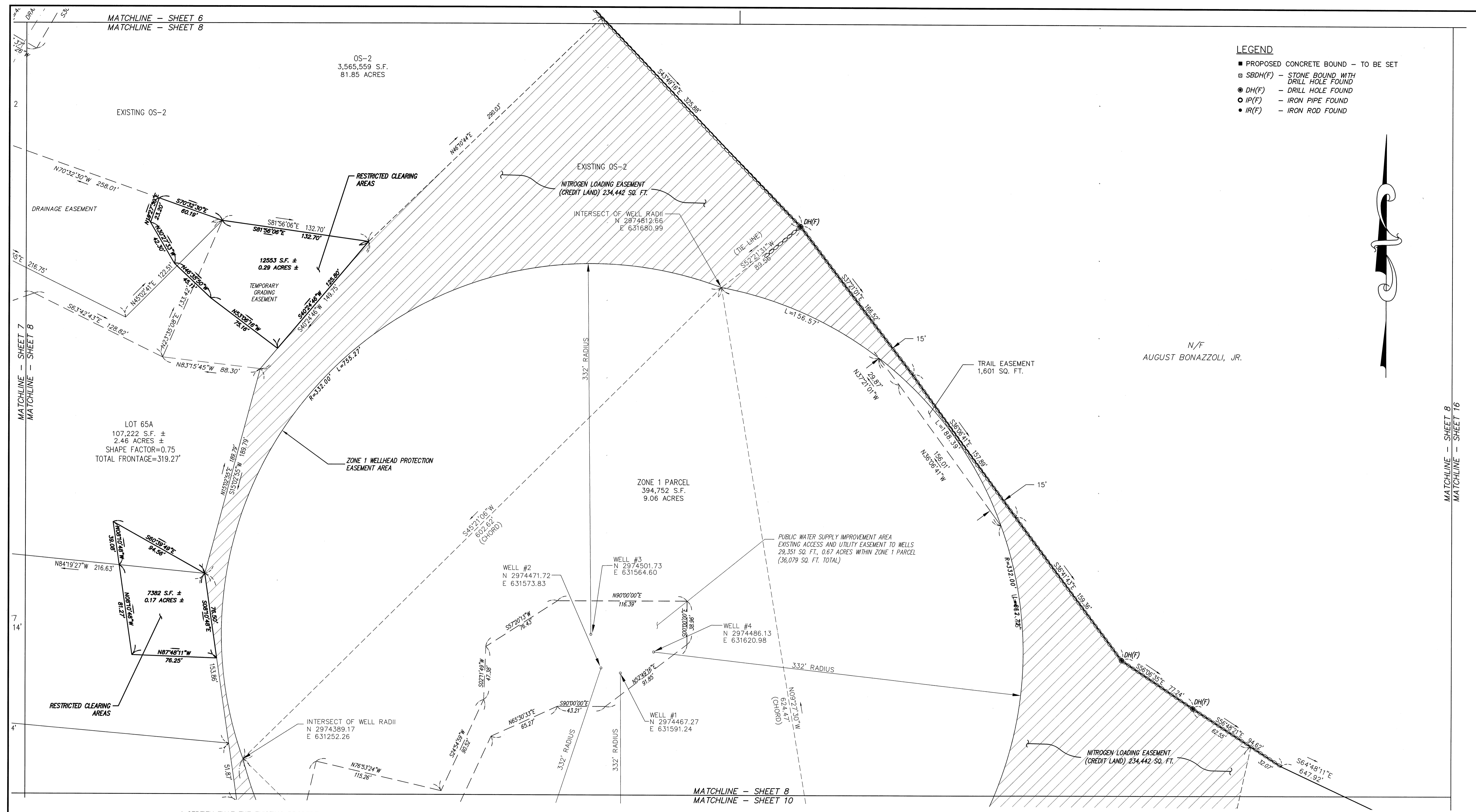
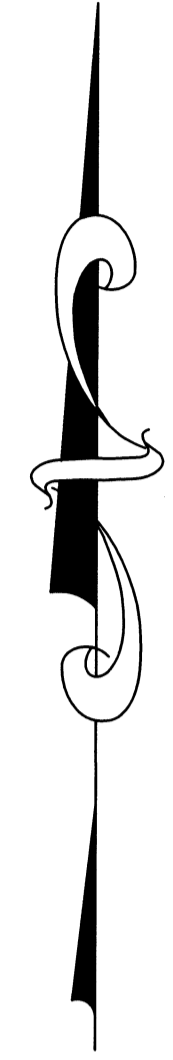
MATCHLINE - SHEET 6
MATCHLINE - SHEET 7

MATCHLINE - SHEET 7
MATCHLINE - SHEET 8



MATCHLINE - SHEET 6
MATCHLINE - SHEET 8

- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
 - SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
 - DH(F) - DRILL HOLE FOUND
 - IP(F) - IRON PIPE FOUND
 - IR(F) - IRON ROD FOUND

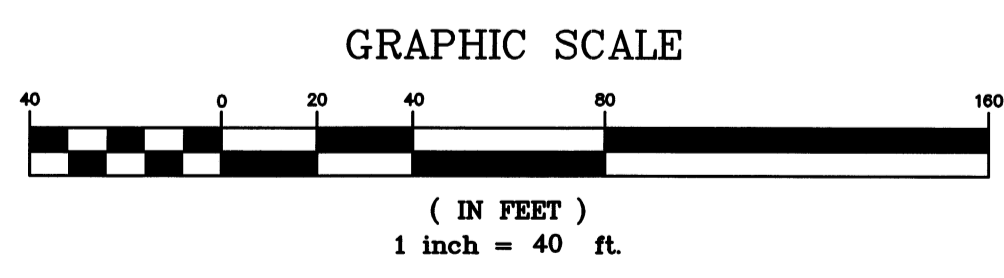


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**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

PLAN OF LAND

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: APRIL 15, 2014

| | | |
|---|---|---------------------|
| JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ RECORD-2-LOTING.DWG | DESIGNED BY: H.M.C. DRAWN BY: H.M.C. CHECKED BY: M.J.C. | PLAN NO. 8 of 17 |
|---|---|---------------------|

FOR REGISTRY USE ONLY

MICHAEL J. CARTER, P.L.S. #48373 DATE: _____

MATCHLINE - SHEET 8
MATCHLINE - SHEET 16

LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
- SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
- DH(F) - DRILL HOLE FOUND
- IP(F) - IRON PIPE FOUND
- IR(F) - IRON ROD FOUND



MATCHLINE - SHEET 7
MATCHLINE - SHEET 9

N/F FULLAM

EXISTING OS-3

OS-3
235,521 S.F.
5.41 ACRES

N/F WEST

EXISTING OS-3

N/F MELANSON

N/F HUNT

MATCHLINE - SHEET 9
MATCHLINE - SHEET 12

LOT 16A
44,225 S.F. ±
1.02 ACRES ±
SHAPE FACTOR=0.83
TOTAL FRONTAGE=152.32'

LOT 17A
45,204 S.F. ±
1.04 ACRES ±
SHAPE FACTOR=0.80
TOTAL FRONTAGE=164.62'

LOT 18A
53,612 S.F. ±
1.23 ACRES ±
SHAPE FACTOR=0.98
TOTAL FRONTAGE=230.41'

LOT 19A
56,843 S.F. ±
1.30 ACRES ±
SHAPE FACTOR=0.99
TOTAL FRONTAGE=225.39'

LOT 20A
60,189 S.F. ±
1.38 ACRES ±
SHAPE FACTOR=0.82
TOTAL FRONTAGE=223.43'

LOT 51A
47,475 S.F. ±
1.09 ACRES ±
SHAPE FACTOR=1.00
TOTAL FRONTAGE=223.95'

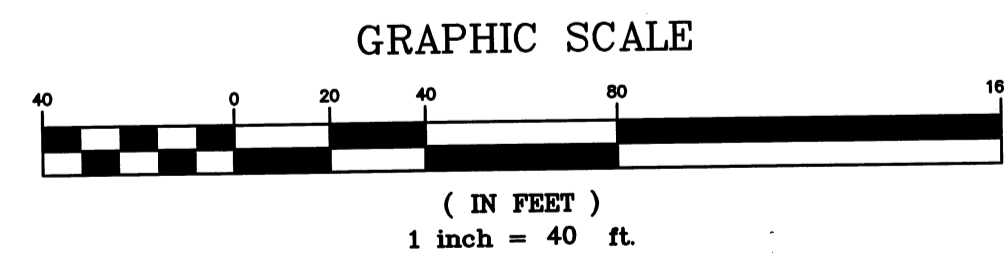
LOT 59A
43,952 S.F. ±
1.01 ACRES ±
SHAPE FACTOR=0.93
TOTAL FRONTAGE=170.09'

LOT 61A
43,740 S.F. ±
1.00 ACRES ±
SHAPE FACTOR=1.06
TOTAL FRONTAGE=222.89'

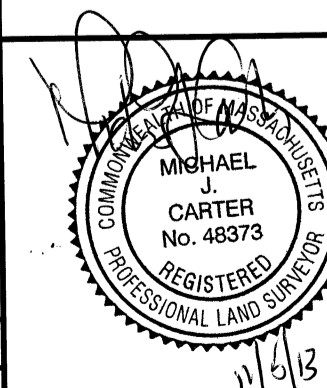
LOT 60A
43,887 S.F. ±
1.01 ACRES ±
SHAPE FACTOR=0.94
TOTAL FRONTAGE=196.01'

LOT 62B
(FORMERLY 62A)
48,147 S.F. ±
1.11 ACRES ±
SHAPE FACTOR=0.54
TOTAL FRONTAGE=69.16'

LOT 53B
43,906 S.F. ±
1.01 ACRES ±
SHAPE FACTOR=0.58
TOTAL FRONTAGE=171.08'



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
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| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

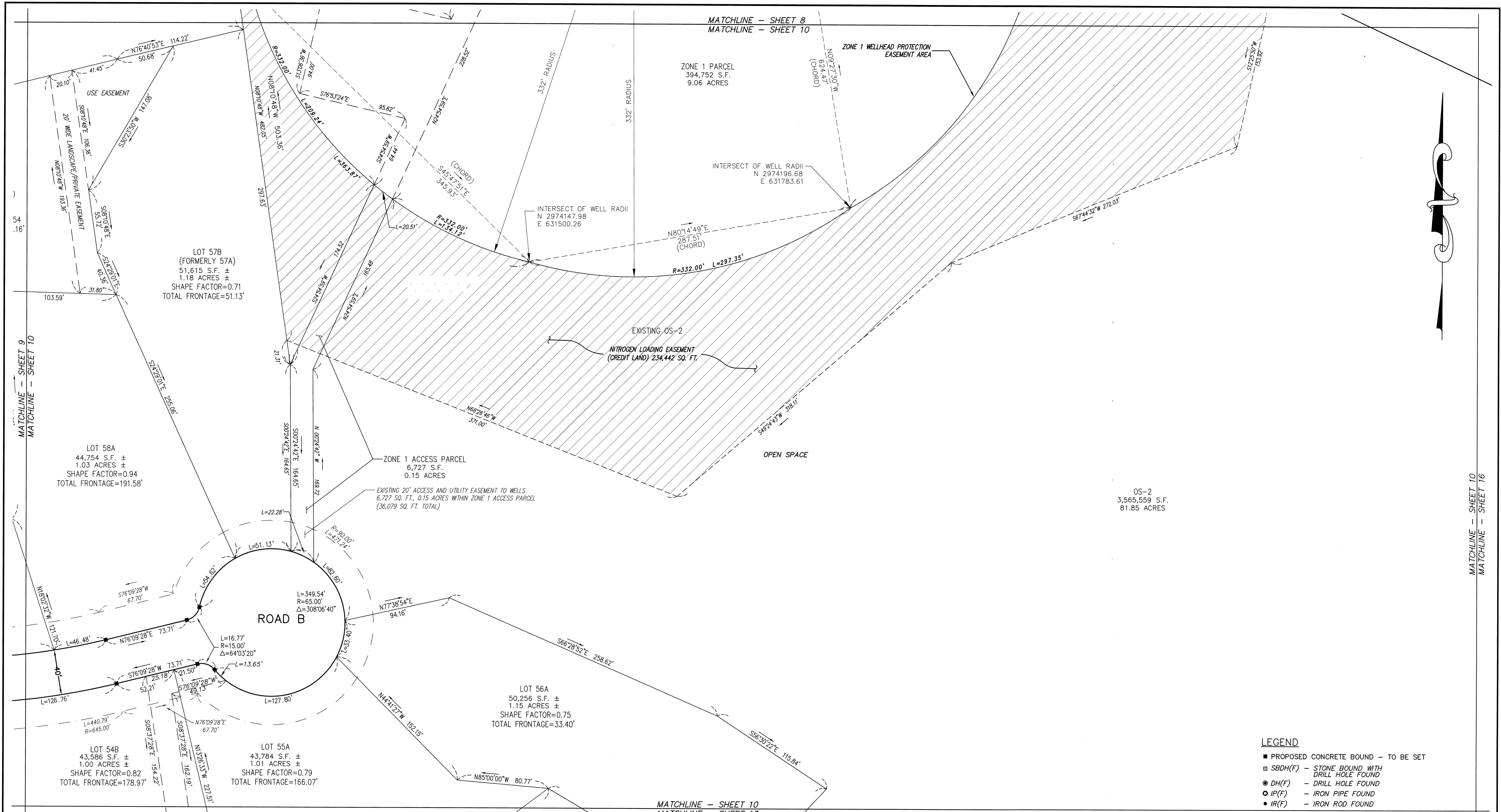
LOT LAYOUT PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD LOTTING.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: L.J.W.

PLAN NO.
9 of 64



I CERTIFY THAT THE EXISTING PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIP AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR DIVISION OF OWNERSHIP OR FOR NEW WAYS ARE SHOWN. CHAPTER 380 ACTS OF 1966 (M.G.L. CH. 41, SEC. 81X)

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FOR REGISTRY USE ONLY

MICHAEL J. CARTER, P.L.S. #48373 DATE: _____

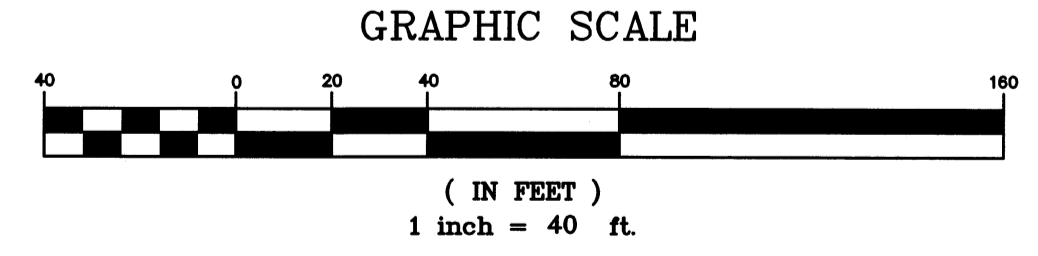
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

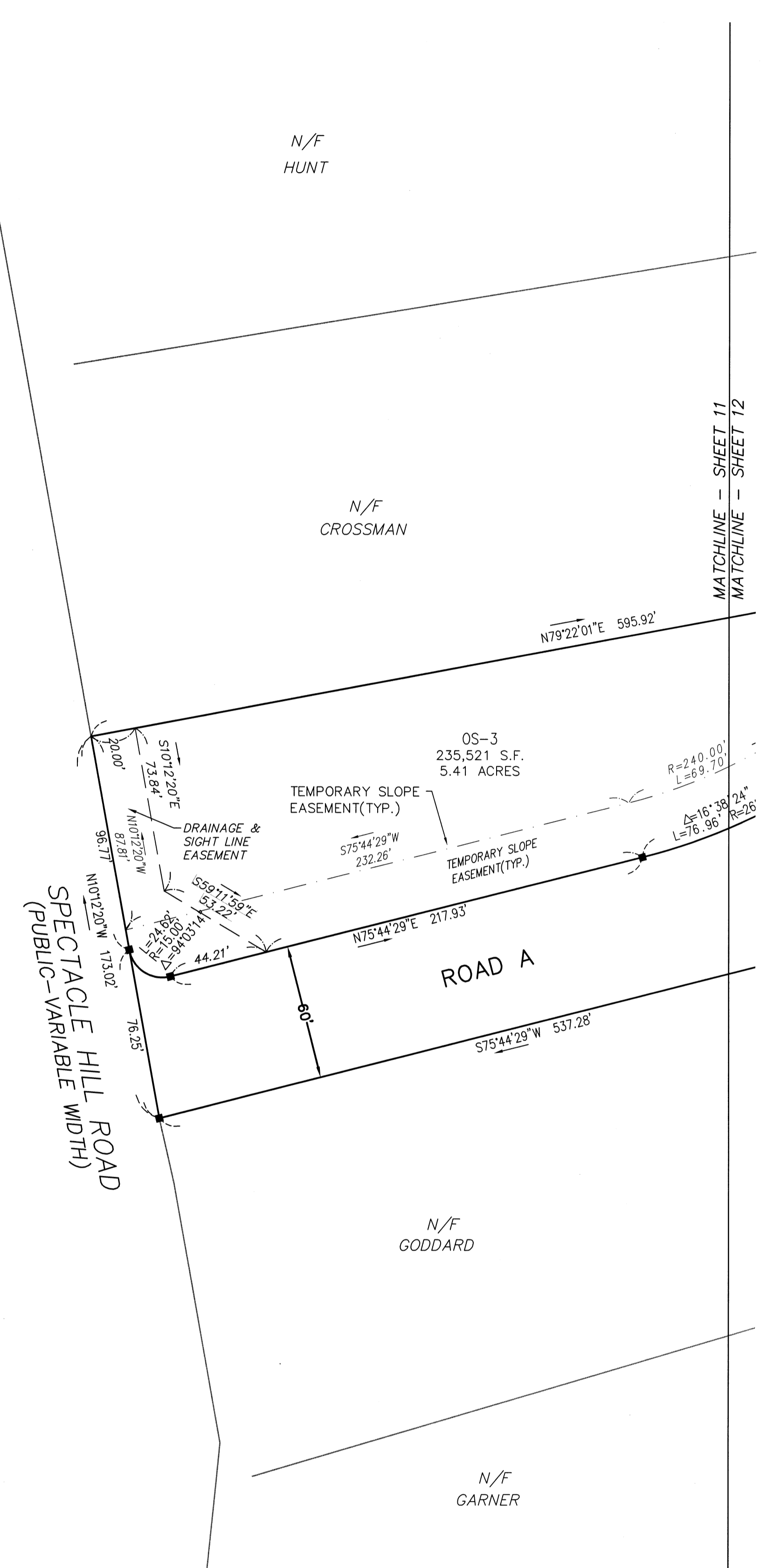
PLAN OF LAND

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: APRIL 15, 2014

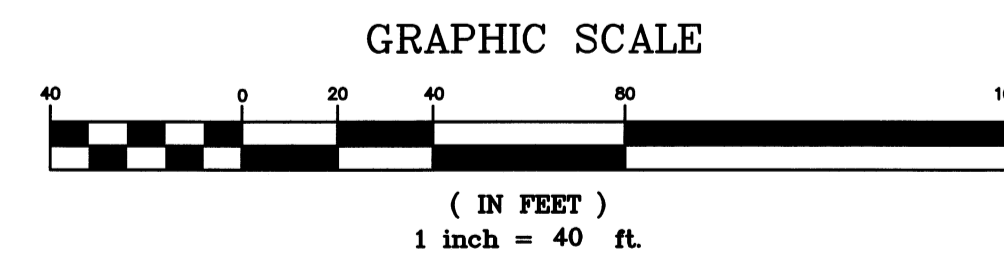
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| JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ RECORD-2-LOTING.DWG | DESIGNED BY: H.M.C. DRAWN BY: H.M.C. CHECKED BY: M.J.C. | PLAN NO. 10 of 17 |
|---|---|----------------------|



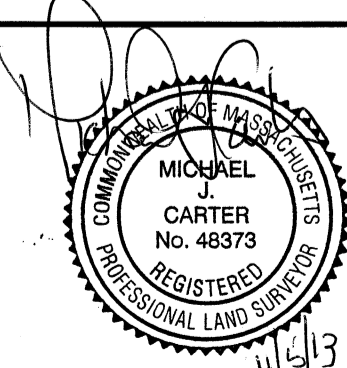


LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
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- DH(F) - DRILL HOLE FOUND
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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

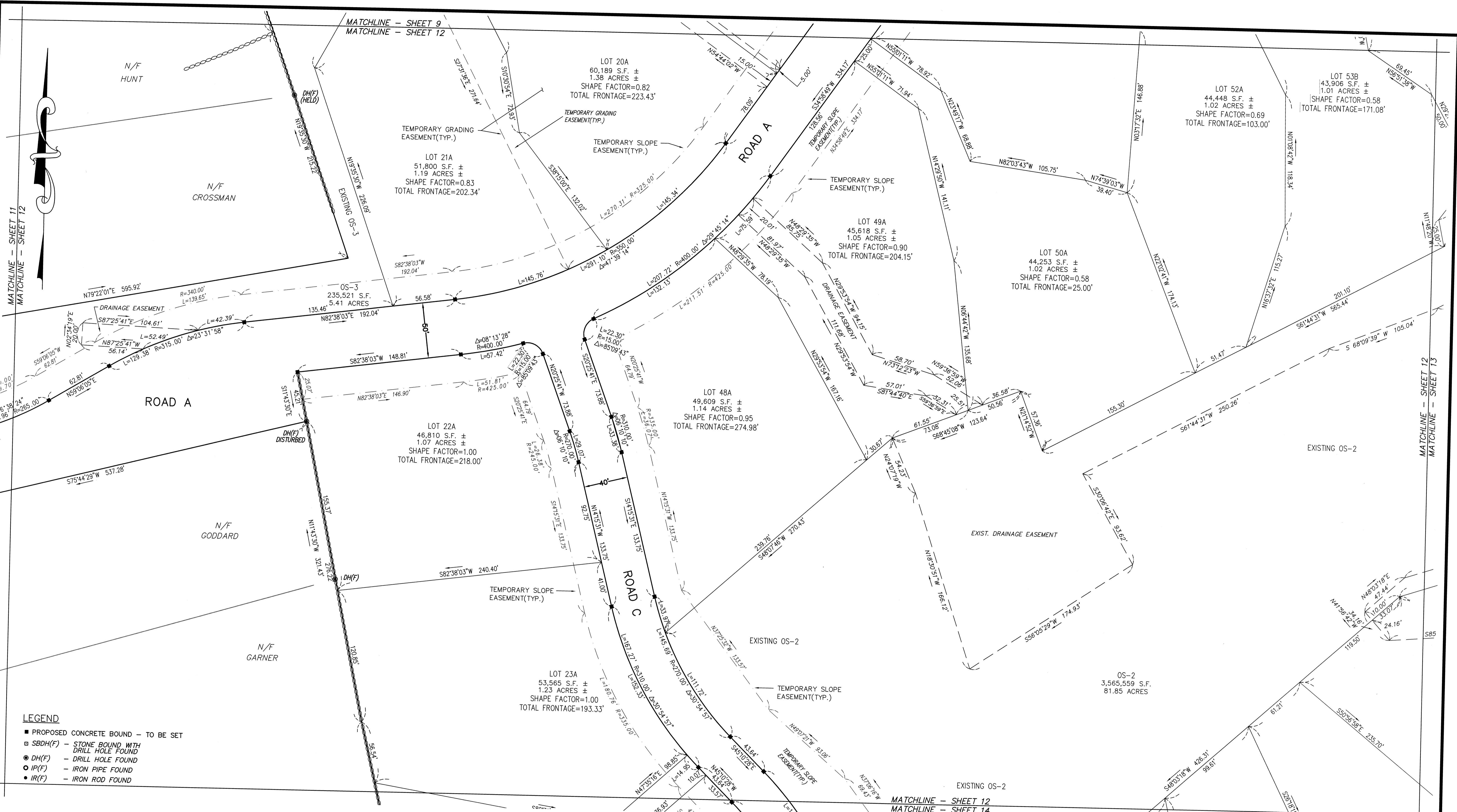
LOT LAYOUT PLAN

GCG ASSOCIATES, INC.

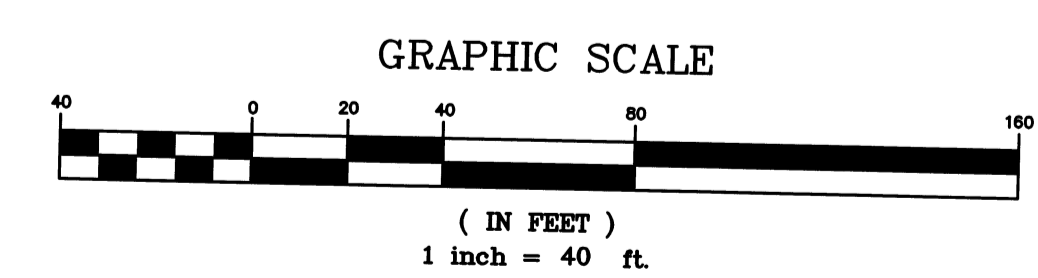
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

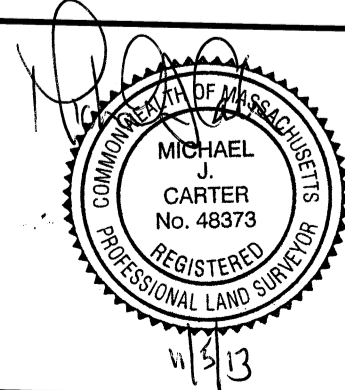
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| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W. | PLAN NO. 11 of 64 |
|---|---|----------------------|



- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
 - ▣ SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
 - DH(F) - DRILL HOLE FOUND
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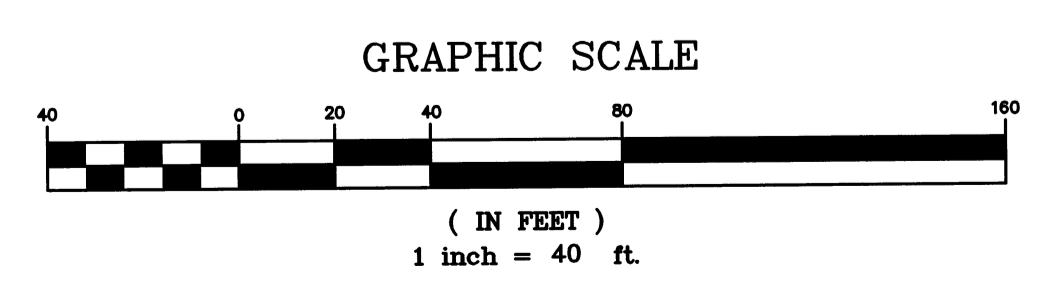
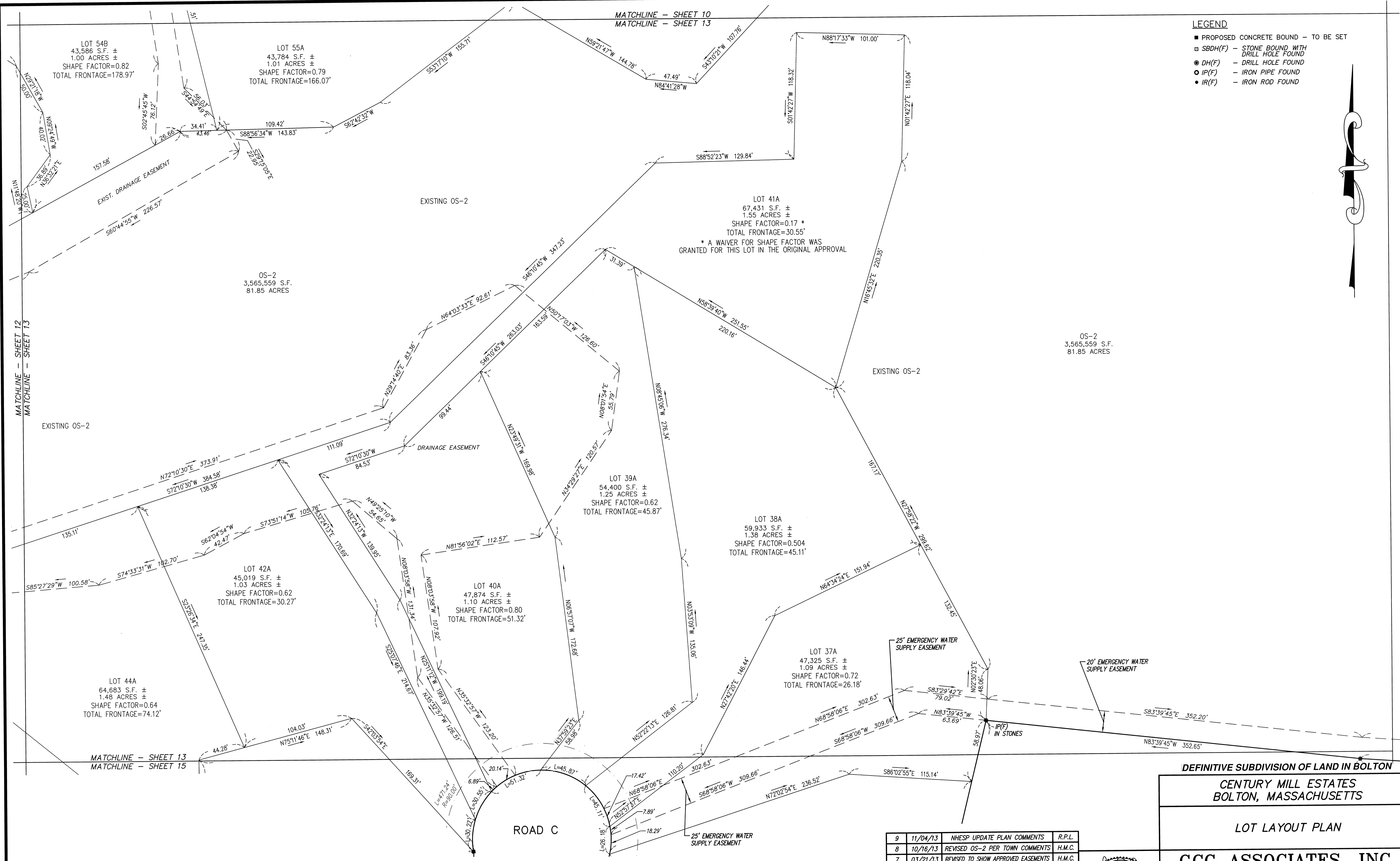
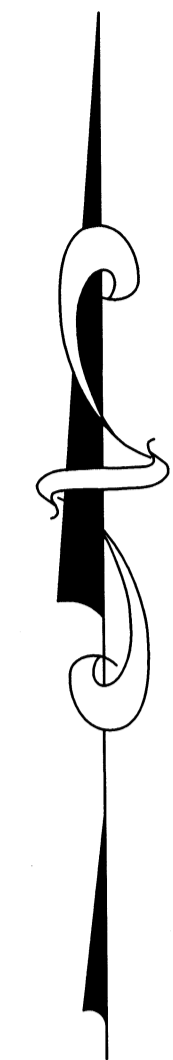


DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

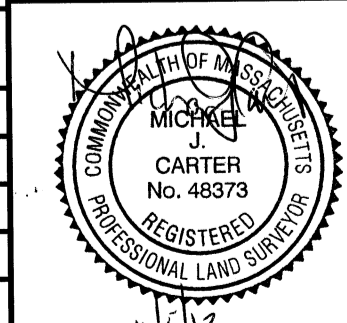
LOT LAYOUT PLAN
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007
 JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG
 DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W.
 PLAN NO. 12 OF 64

- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
 - SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

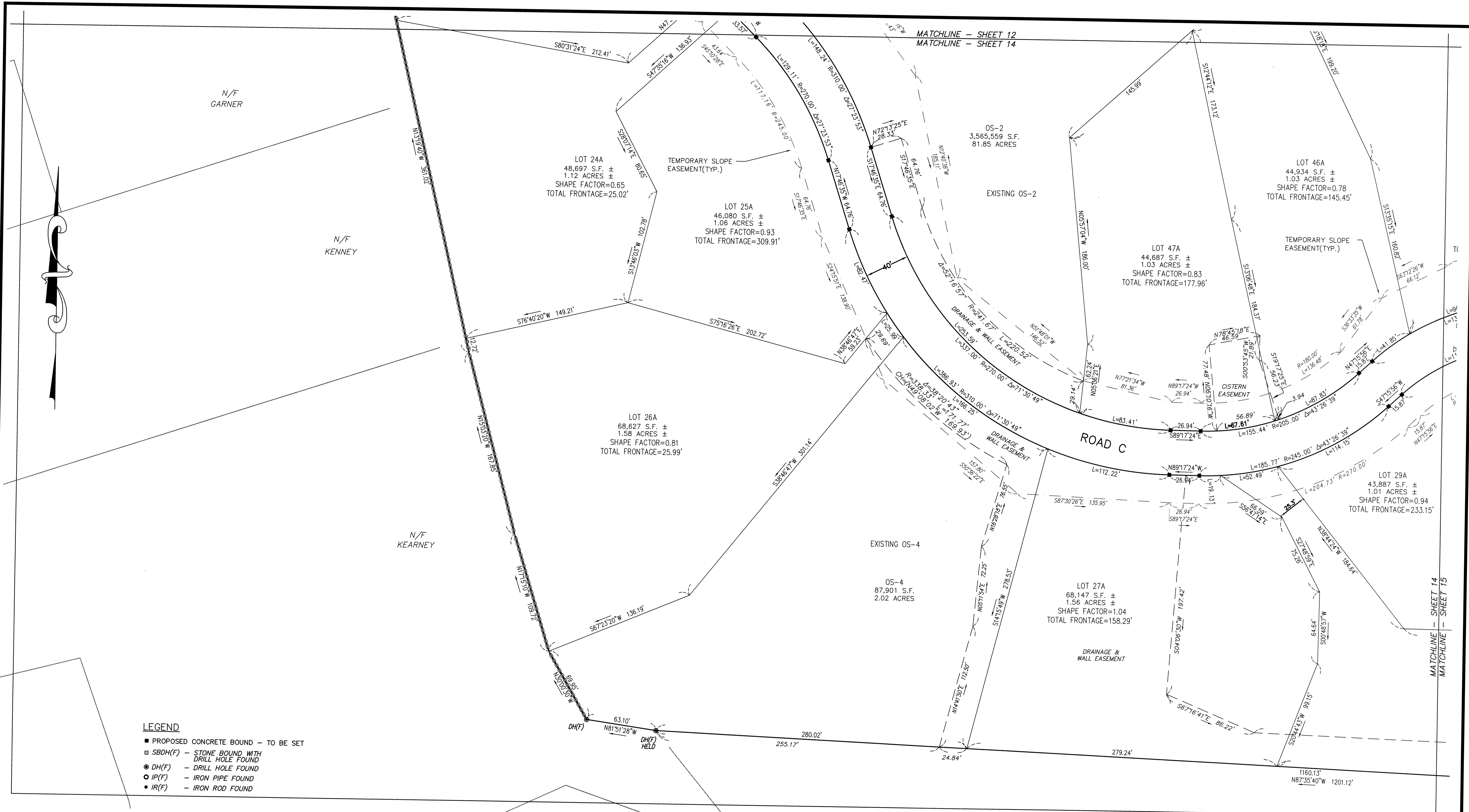
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

LOT LAYOUT PLAN

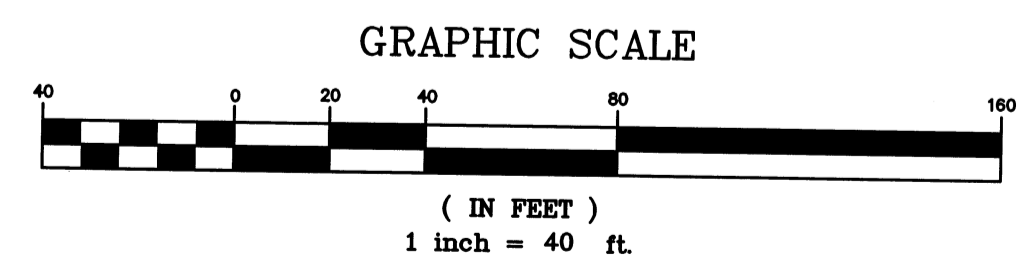
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

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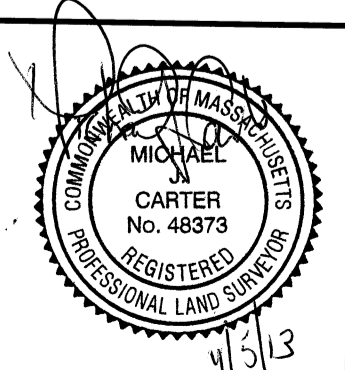
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| JOB NO. FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W. | PLAN NO. 13 OF 64 |
|---|---|----------------------|



- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
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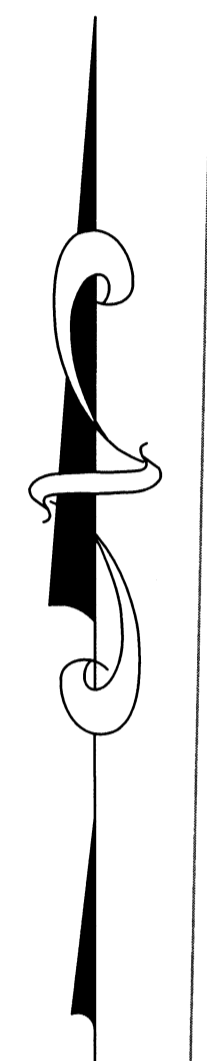
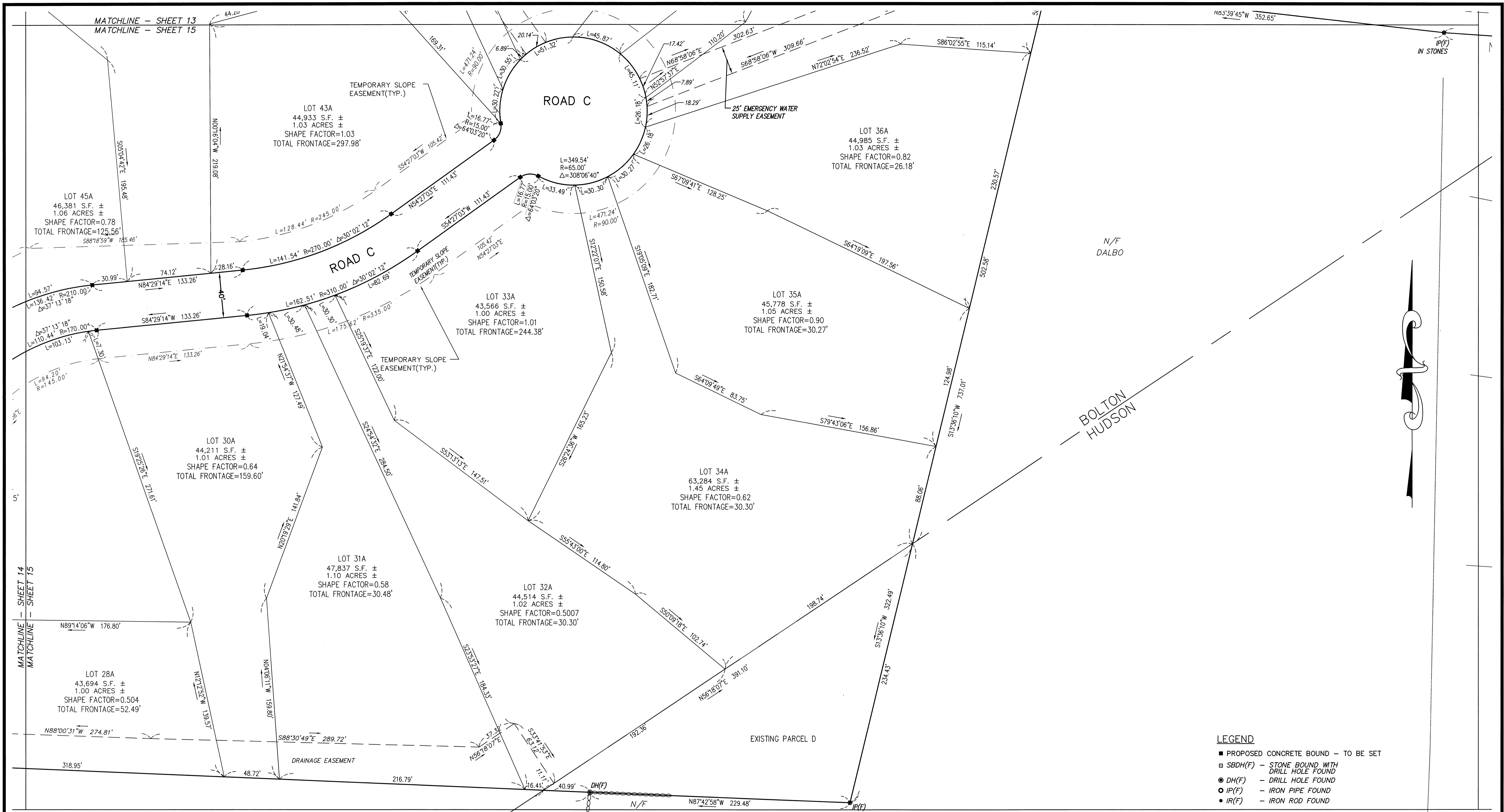
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

LOT LAYOUT PLAN

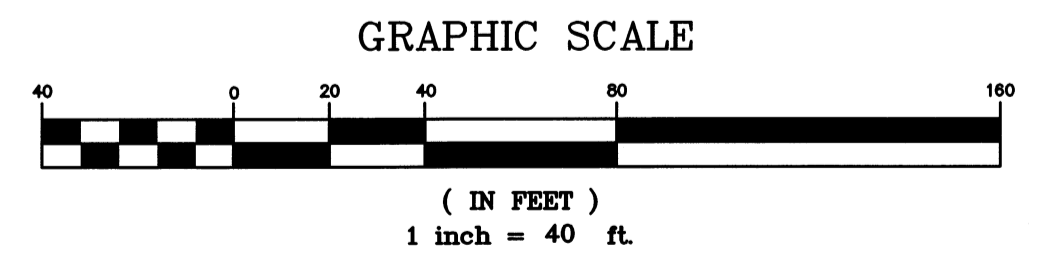
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

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JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: L.J.W. PLAN NO. 14 OF 64



- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
 - SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
 - DH(F) - DRILL HOLE FOUND
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

LOT LAYOUT PLAN

GCG ASSOCIATES, INC.

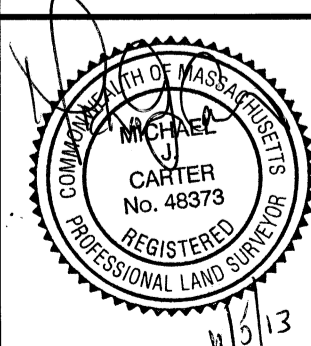
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DRAWN BY: J.R.D.
CHECKED BY: L.J.W.

PLAN NO.
15 of 64

| NO. | DATE | DESCRIPTION | BY |
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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |





N/F
AUGUST BONAZZOLI, JR.

N/F
STEWERTIA, L.L.C.

N79°11'32"E 78.26'
 24.15' N86°46'04"E
 27.96' N82°34'35"E
 48.36' S89°09'15"E 52.33'
 30.42' S88°33'57"E
 566°25'10"E
 DH(F)
 (HELD)

N82°11'15"E 1336.00'

S64°48'11"E 647.92'

N04°56'16"E 267.12'

STONES/FND

OS-2
 3,565,559 S.F.
 81.85 ACRES

N/F
TOWN OF
BOLTON

DANFORTH BROOK

N/F
JOHNSON REALTY TR.

N/F
ORDWAY

BOLTON
HUDSON

STONE/DH
(LOOSE)

S09°49'27"W 433.50'

S19°49'27"W 399.00'

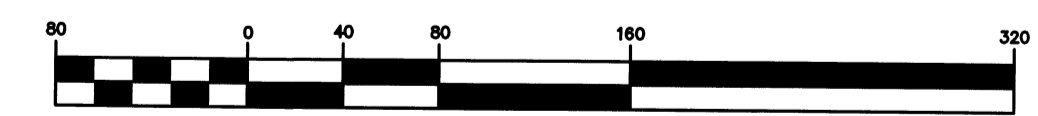
S44°40'32"E 123.59'

LEGEND

- PROPOSED CONCRETE BOUND - TO BE SET
- SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
- DH(F) - DRILL HOLE FOUND
- IP(F) - IRON PIPE FOUND
- IR(F) - IRON ROD FOUND

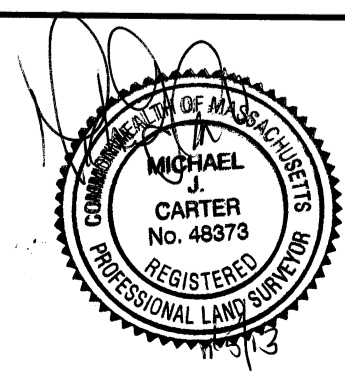
MATCHLINE - SHEET 16
 MATCHLINE - SHEET 17

GRAPHIC SCALE



(IN FEET)
 1 inch = 80 ft.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
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| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

LOT LAYOUT PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=80' DATE: JANUARY 26, 2007

JOB NO. FILE NAME: 0213-DEF-LOT-MOD LOTTING.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: L.J.W.

PLAN NO.
 16 of 64

MATCHLINE - SHEET 16
 MATCHLINE - SHEET 17

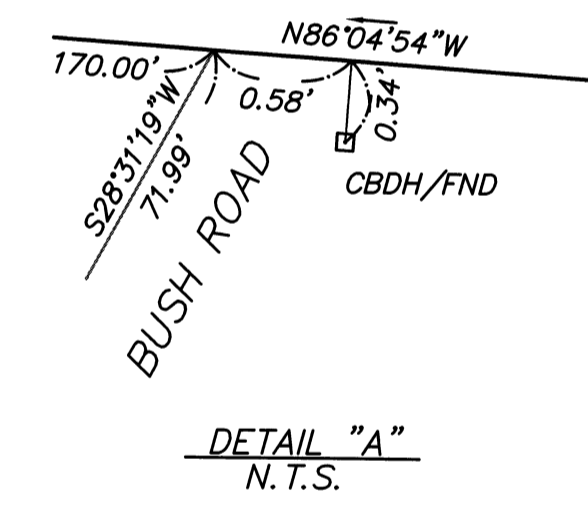
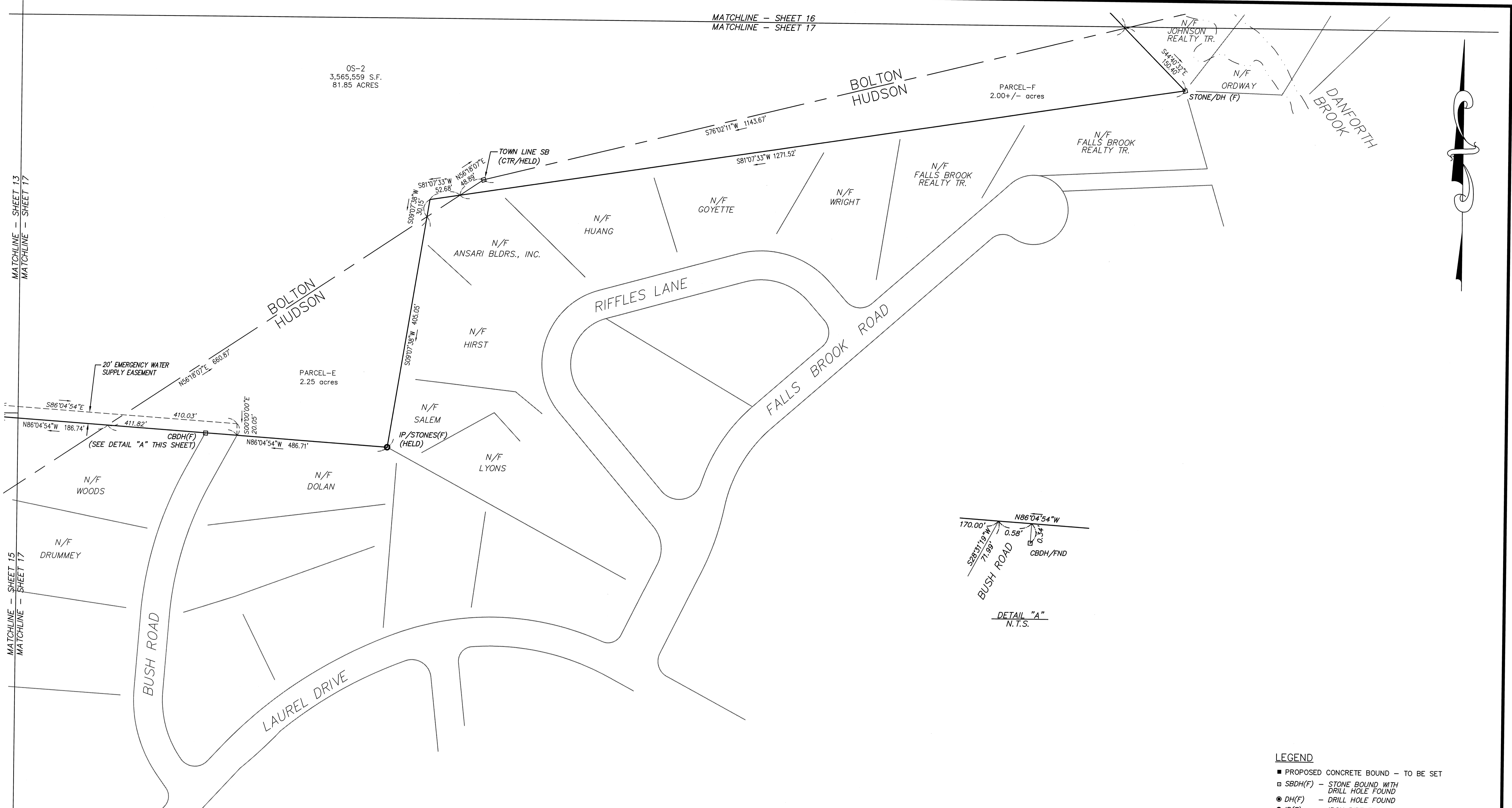
OS-2
 3,565,559 S.F.
 81.85 ACRES

PARCEL-F
 2.00 +/- acres

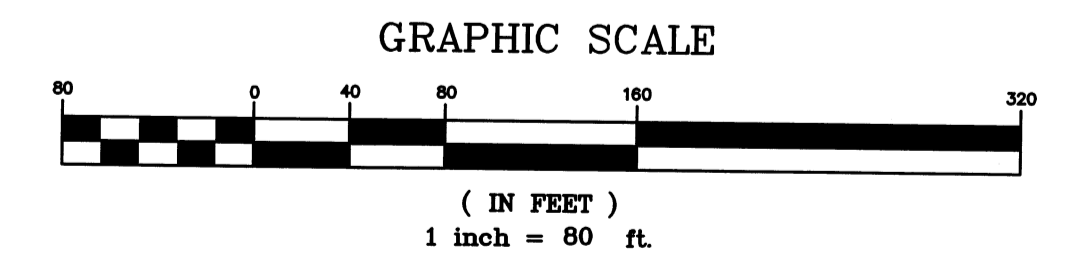
PARCEL-E
 2.25 acres

MATCHLINE - SHEET 13
 MATCHLINE - SHEET 17

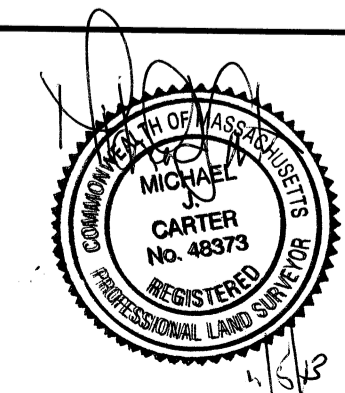
MATCHLINE - SHEET 15
 MATCHLINE - SHEET 17



- LEGEND**
- PROPOSED CONCRETE BOUND - TO BE SET
 - SBDH(F) - STONE BOUND WITH DRILL HOLE FOUND
 - DH(F) - DRILL HOLE FOUND
 - IP(F) - IRON PIPE FOUND
 - IR(F) - IRON ROD FOUND



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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS**

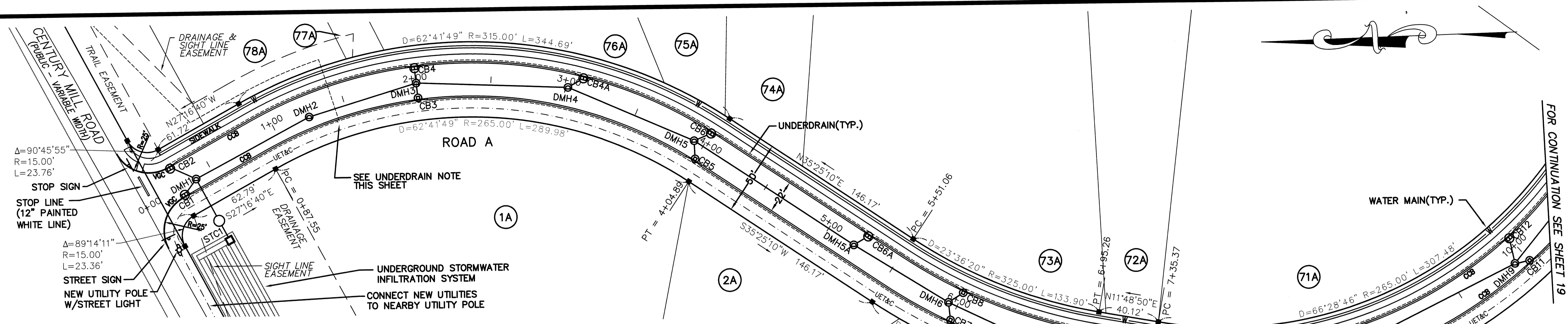
LOT LAYOUT PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

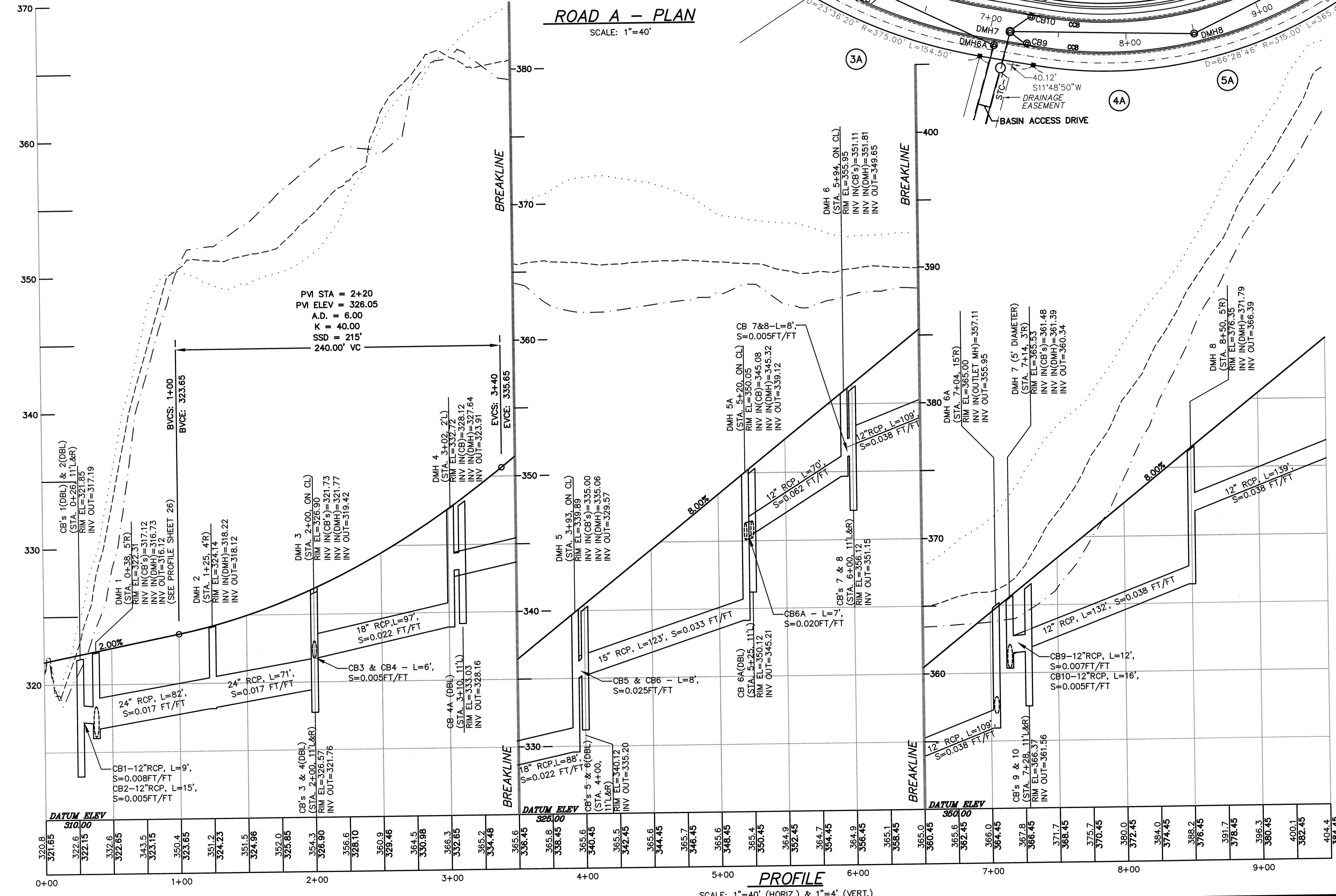
SCALE: 1"=80' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ LOTTING.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: L.J.W.

PLAN NO.
 17 of 64



ROAD A - PLAN
SCALE: 1"=40'



- NOTES:**
- 1.) THE UNDERDRAIN BETWEEN STATION 0+26± AND STATION 1+43± SHALL CONNECT TO THE CLOSED DRAINAGE SYSTEM THAT DISCHARGES TO UNDERGROUND INFILTRATION SYSTEM (POND #3B). THE UNDERDRAIN BETWEEN STATION 1+43± AND STATION 15+75 ± SHALL DISCHARGE TOWARDS THE EXISTING CATCH BASIN IN CENTURY MILL ROAD.
 - 2.) SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - 3.) CATCH BASINS CB 1, 2, 4, 4A, 6, 6A & 12 SHALL BE DOUBLE GRATED CATCH BASINS.
 - 4.) THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - 5.) THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
 - 6.) THE LOCATION OF INDIVIDUAL WATER SERVICES SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION. EACH WATER SERVICE THAT CROSSES A SUBDIVISION ROAD SHALL BE INSTALLED WITHIN A PIPE SLEEVE. EACH PIPE SLEEVE SHALL EXTEND A MINIMUM OF 3' BEYOND THE ROADWAY PAVEMENT.

PROFILE LEGEND

- EXISTING LEFT R.O.W. GRADE
- EXISTING RIGHT R.O.W. GRADE
- EXISTING CENTERLINE GRADE
- PROPOSED CENTERLINE GRADE

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DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

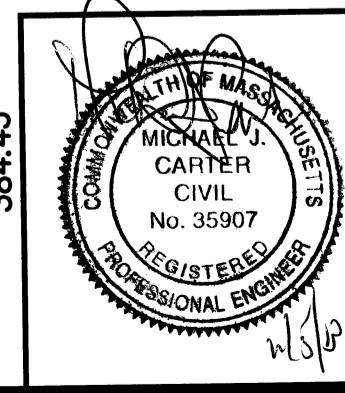
STREET PLAN AND PROFILE

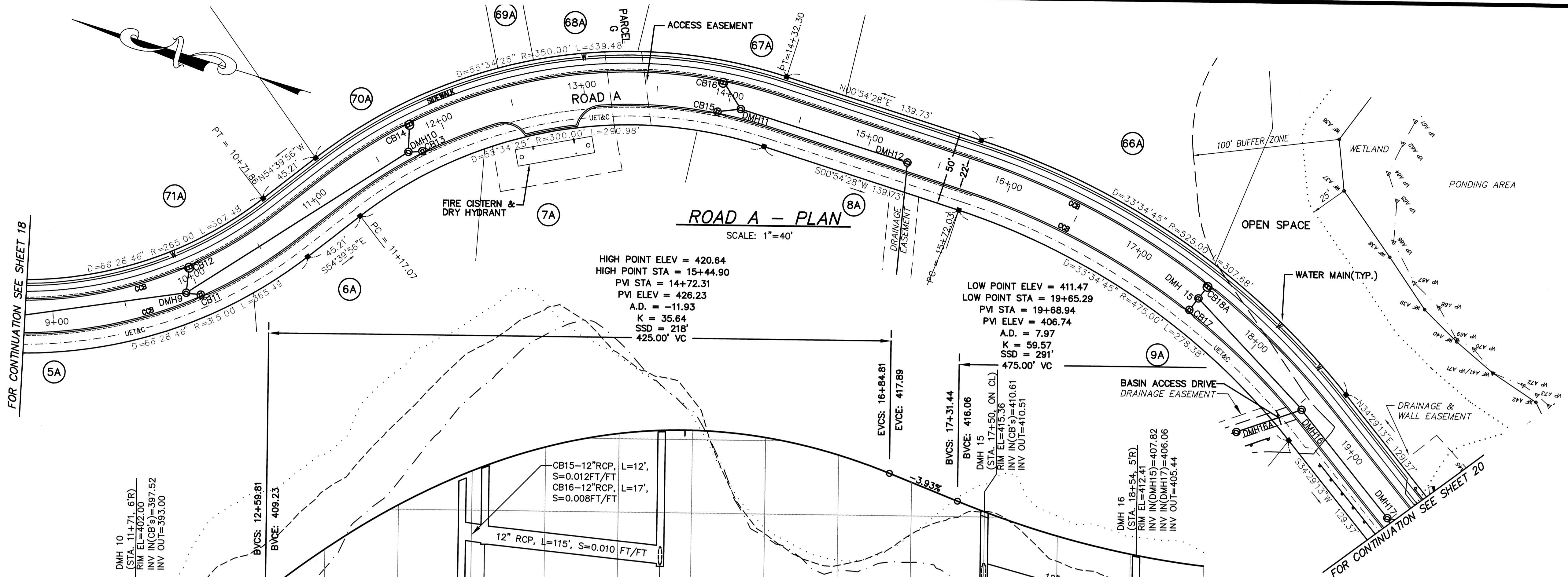
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD\PROFILE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

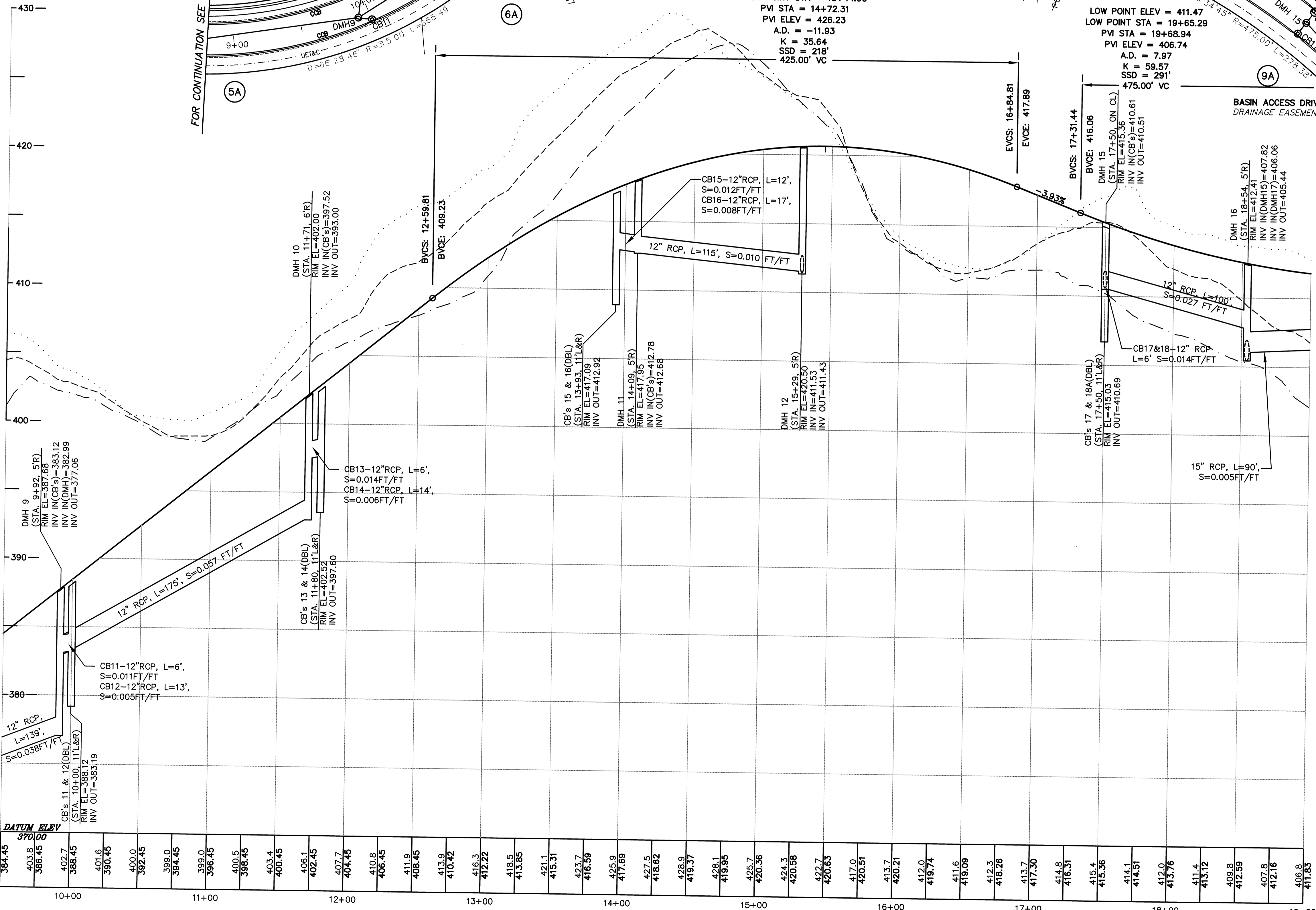
PLAN NO.
18 of 64





HIGH POINT ELEV = 420.64
 HIGH POINT STA = 15+44.90
 PVI STA = 14+72.31
 PVI ELEV = 426.23
 A.D. = -11.93
 K = 35.64
 SSD = 218'
 425.00' VC

LOW POINT ELEV = 411.47
 LOW POINT STA = 19+65.29
 PVI STA = 19+68.94
 PVI ELEV = 406.74
 A.D. = 7.97
 K = 59.57
 SSD = 291'
 475.00' VC



| STATION | ELEVATION |
|---------|-----------|
| 10+00 | 384.45 |
| 10+10 | 383.8 |
| 10+20 | 386.95 |
| 10+30 | 402.7 |
| 10+40 | 388.45 |
| 10+50 | 401.6 |
| 10+60 | 390.45 |
| 10+70 | 400.0 |
| 10+80 | 392.45 |
| 10+90 | 399.0 |
| 11+00 | 394.45 |
| 11+10 | 399.0 |
| 11+20 | 396.45 |
| 11+30 | 400.5 |
| 11+40 | 398.45 |
| 11+50 | 403.4 |
| 11+60 | 400.45 |
| 11+70 | 406.1 |
| 11+80 | 402.45 |
| 11+90 | 407.7 |
| 12+00 | 410.8 |
| 12+10 | 406.45 |
| 12+20 | 411.9 |
| 12+30 | 408.45 |
| 12+40 | 413.9 |
| 12+50 | 410.42 |
| 12+60 | 416.3 |
| 12+70 | 412.22 |
| 12+80 | 418.5 |
| 12+90 | 413.65 |
| 13+00 | 421.1 |
| 13+10 | 415.31 |
| 13+20 | 423.7 |
| 13+30 | 416.59 |
| 13+40 | 425.9 |
| 13+50 | 417.69 |
| 13+60 | 427.5 |
| 13+70 | 418.62 |
| 13+80 | 428.9 |
| 13+90 | 419.37 |
| 14+00 | 428.1 |
| 14+10 | 419.95 |
| 14+20 | 425.7 |
| 14+30 | 420.36 |
| 14+40 | 424.3 |
| 14+50 | 420.58 |
| 14+60 | 422.7 |
| 14+70 | 420.63 |
| 14+80 | 417.9 |
| 14+90 | 420.51 |
| 15+00 | 413.7 |
| 15+10 | 420.21 |
| 15+20 | 412.0 |
| 15+30 | 419.74 |
| 15+40 | 411.6 |
| 15+50 | 419.09 |
| 15+60 | 412.3 |
| 15+70 | 418.26 |
| 15+80 | 413.7 |
| 15+90 | 417.30 |
| 16+00 | 414.8 |
| 16+10 | 416.31 |
| 16+20 | 415.4 |
| 16+30 | 415.36 |
| 16+40 | 414.1 |
| 16+50 | 414.51 |
| 16+60 | 412.0 |
| 16+70 | 413.76 |
| 16+80 | 411.4 |
| 16+90 | 413.12 |
| 17+00 | 409.8 |
| 17+10 | 412.59 |
| 17+20 | 407.8 |
| 17+30 | 412.16 |
| 17+40 | 406.8 |
| 17+50 | 411.83 |

- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 12, 14, 16 & 18A SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
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PROFILE LEGEND

| | |
|-----|-----------------------------|
| --- | EXISTING LEFT R.O.W. GRADE |
| --- | EXISTING RIGHT R.O.W. GRADE |
| --- | EXISTING CENTERLINE GRADE |
| --- | PROPOSED CENTERLINE GRADE |

| NO. | DATE | DESCRIPTION | BY |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS**

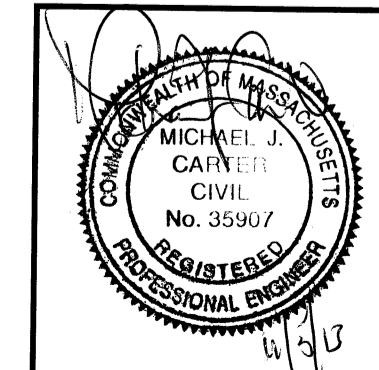
STREET PLAN AND PROFILE

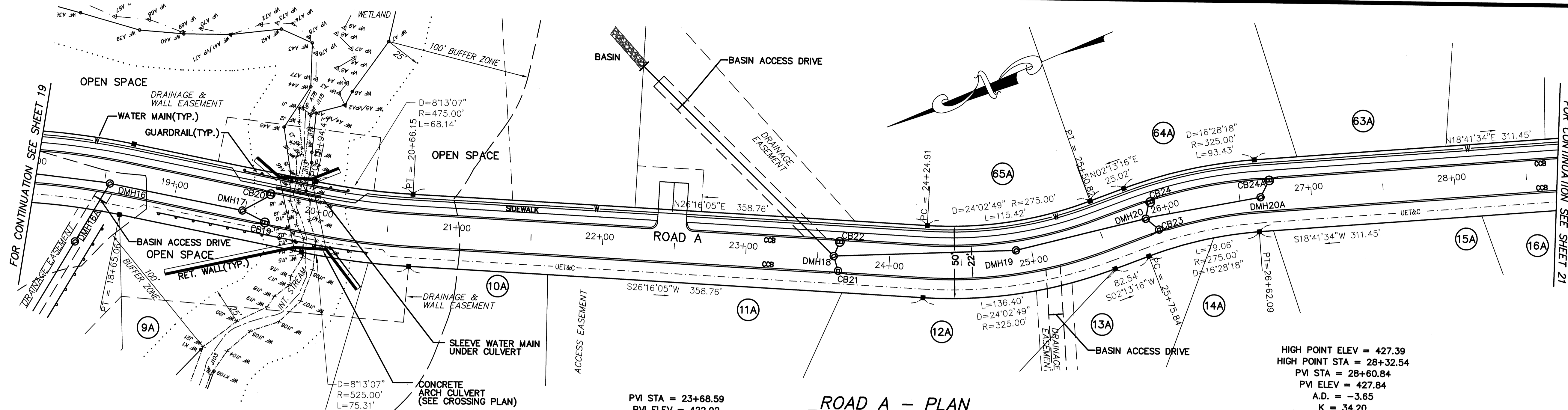
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD PROFILE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

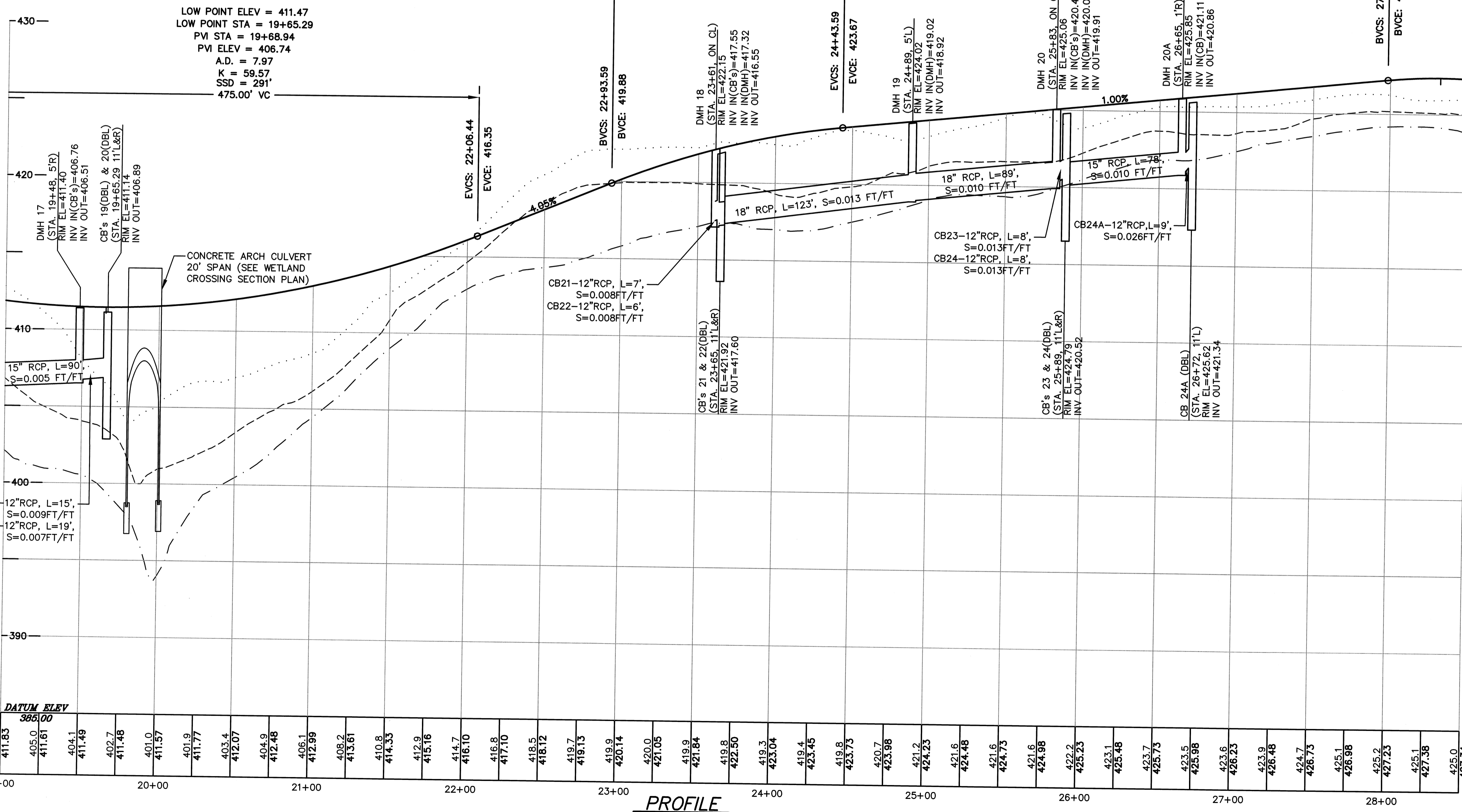
PLAN NO. 19 OF 64





ROAD A - PLAN
SCALE: 1"=40'

HIGH POINT ELEV = 427.39
HIGH POINT STA = 28+32.54
PVI STA = 28+60.84
PVI ELEV = 427.84
A.D. = -3.65
K = 34.20
SSD = 245'
125.00' VC



PROFILE
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

PROFILE LEGEND
 - - - - - EXISTING LEFT R.O.W. GRADE
 - - - - - EXISTING RIGHT R.O.W. GRADE
 - - - - - EXISTING CENTERLINE GRADE
 ——— PROPOSED CENTERLINE GRADE

- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 19, 20, 22, 24 & 24A SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

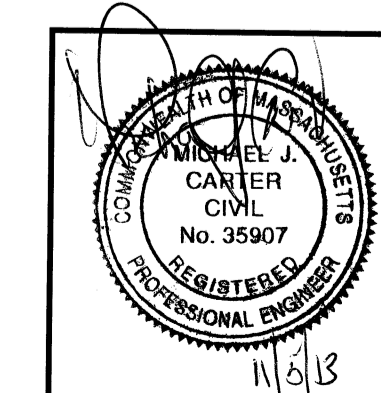
STREET PLAN AND PROFILE

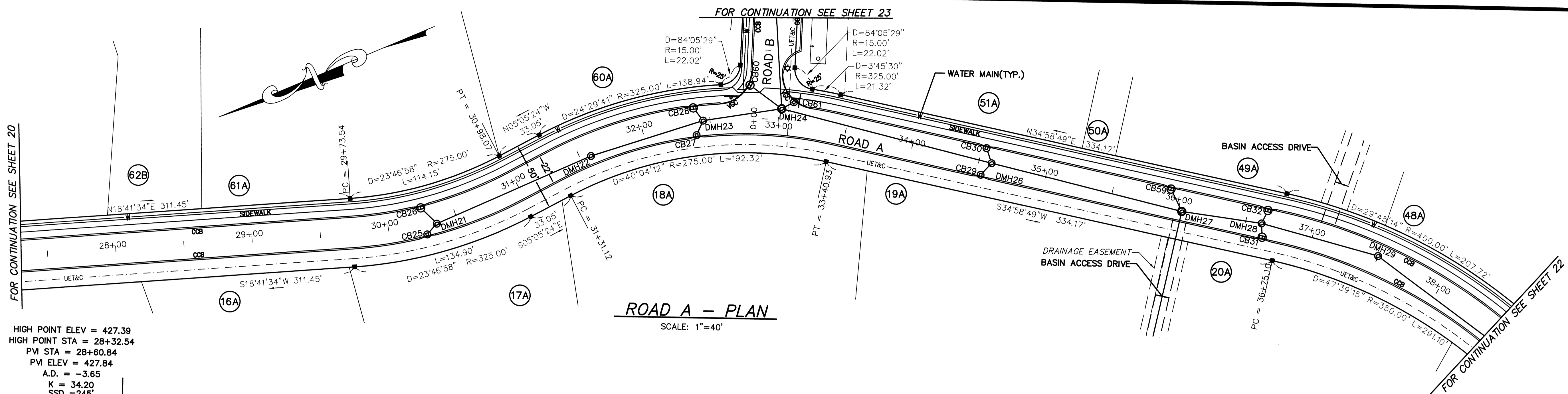
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

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DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

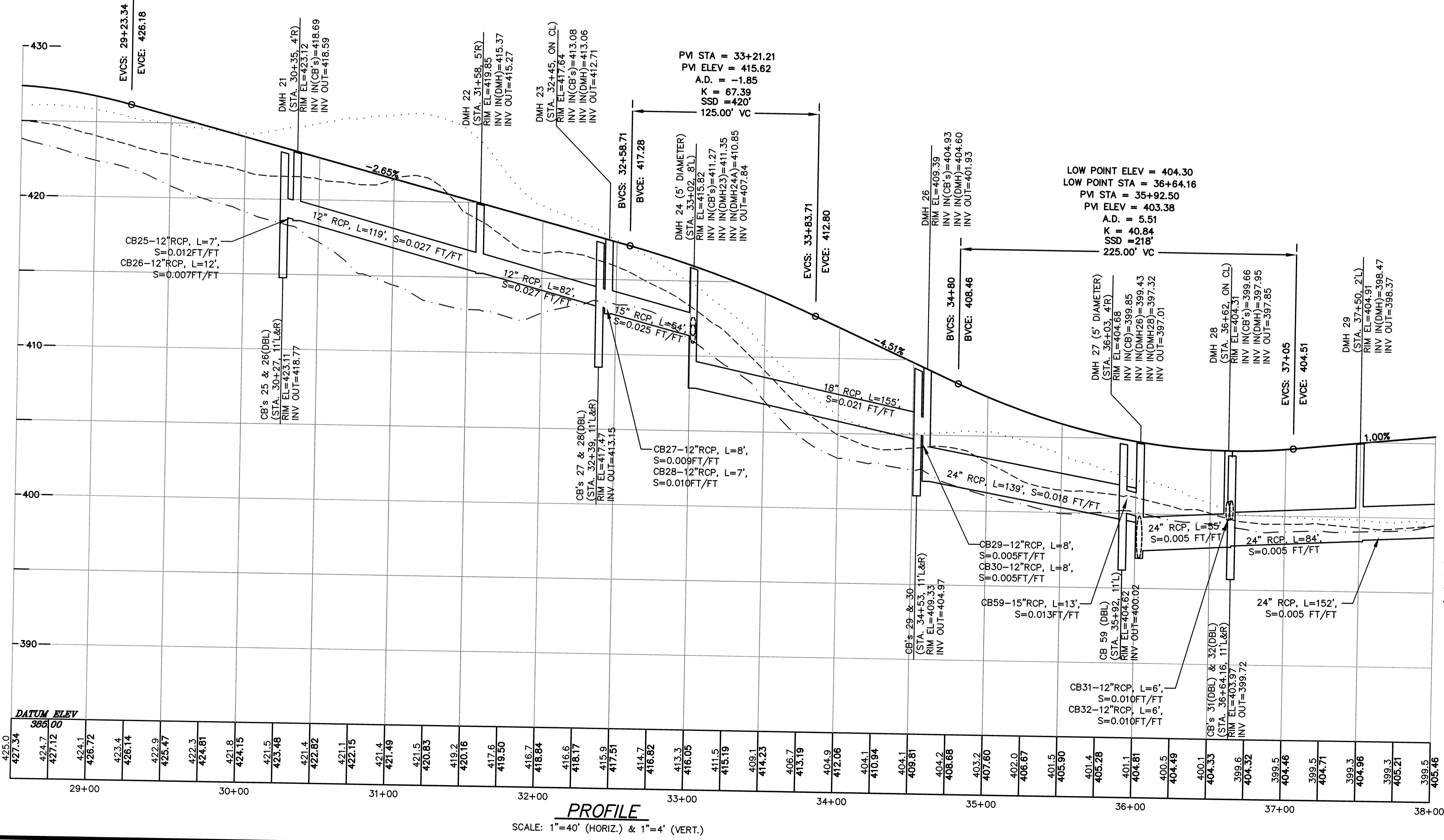
PLAN NO. 20 of 64





ROAD A - PLAN
SCALE: 1"=40'

HIGH POINT ELEV = 427.39
HIGH POINT STA = 28+32.54
PVI STA = 28+60.84
PVI ELEV = 427.84
A.D. = -3.65
K = 34.20
SSD = 245'
125.00' VC



DATUM ELEV
385.00

PROFILE
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

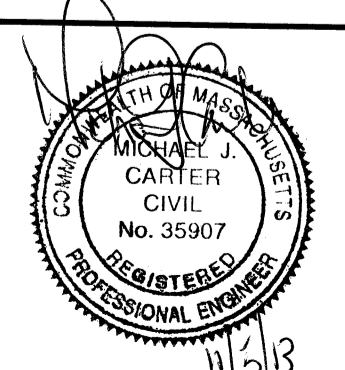
- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 26, 28, 31, 32, 59 & 60 SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
 - THE LOCATION OF INDIVIDUAL WATER SERVICES SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION. EACH WATER SERVICE THAT CROSSES A SUBDIVISION ROAD SHALL BE INSTALLED WITHIN A PIPE SLEEVE. EACH PIPE SLEEVE SHALL EXTEND A MINIMUM OF 3' BEYOND THE ROADWAY PAVEMENT.

PROFILE LEGEND

| | |
|-----|-----------------------------|
| --- | EXISTING LEFT R.O.W. GRADE |
| --- | EXISTING RIGHT R.O.W. GRADE |
| --- | EXISTING CENTERLINE GRADE |
| --- | PROPOSED CENTERLINE GRADE |

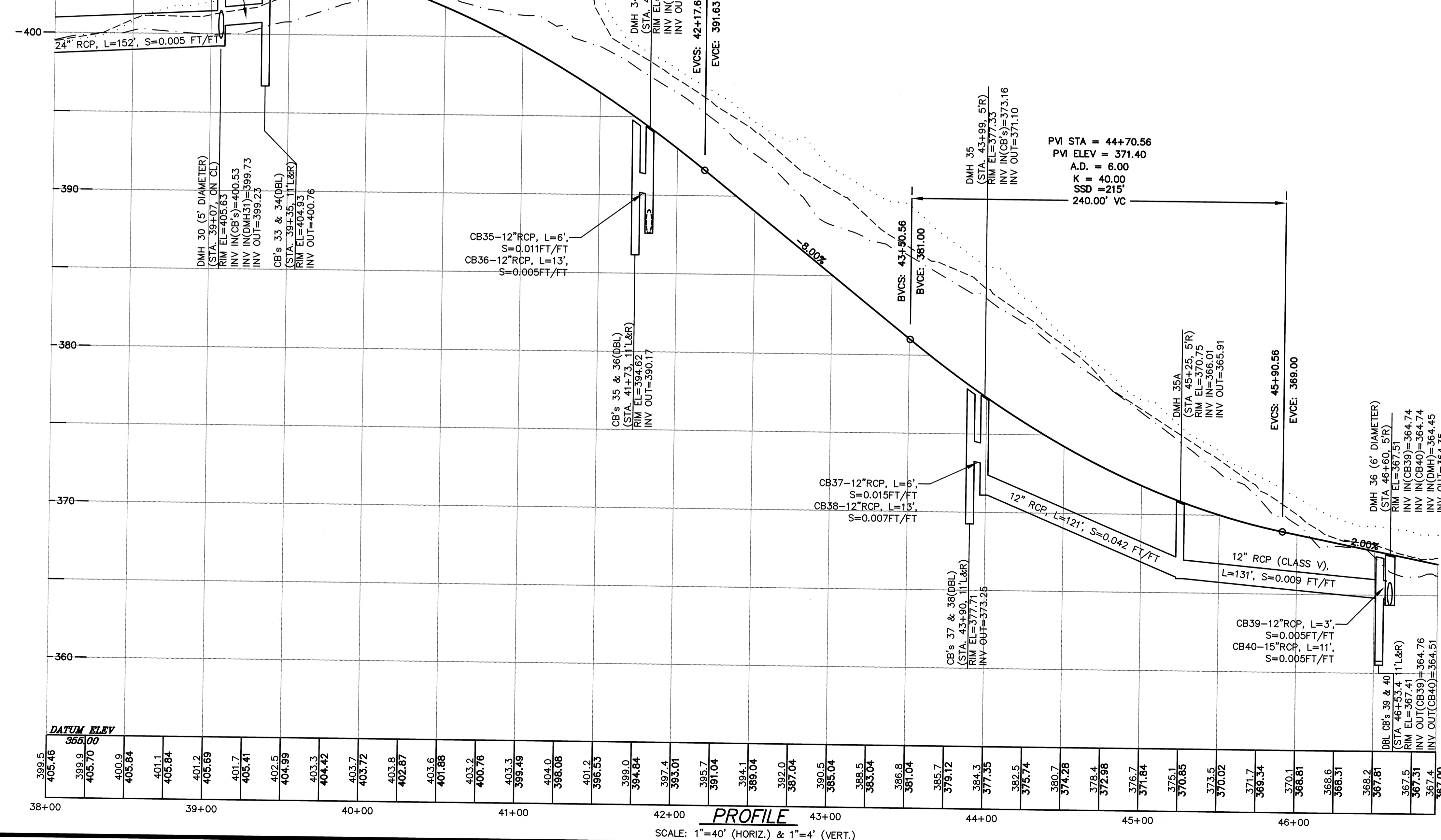
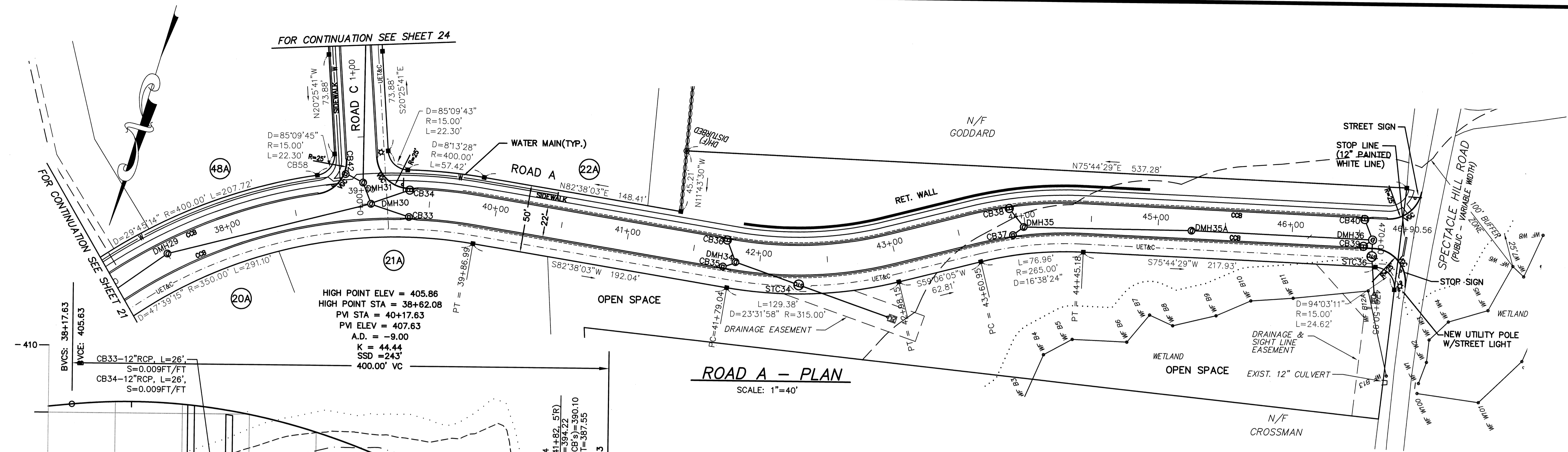
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS
STREET PLAN AND PROFILE



GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007
JOB NO./FILE NAME: 0213-DEF-LOT-MOD PROFILE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 21 of 64



- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 34, 36, 38, 39 & 40 SHALL BE DOUBLE GRATED CATCH BASINS.
 - DRAINAGE PIPE WITH LESS THAN 3' OF COVER SHALL BE CLASS V RCP.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
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PROFILE LEGEND

| | |
|-----|-----------------------------|
| --- | EXISTING LEFT R.O.W. GRADE |
| --- | EXISTING RIGHT R.O.W. GRADE |
| --- | EXISTING CENTERLINE GRADE |
| --- | PROPOSED CENTERLINE GRADE |

| NO. | DATE | DESCRIPTION | BY |
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| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

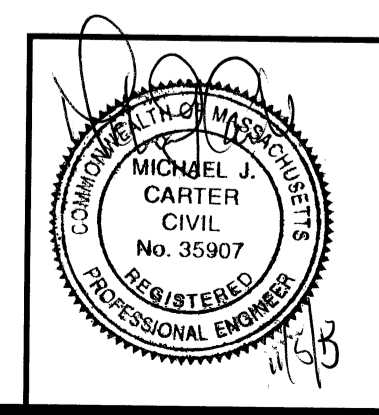
STREET PLAN AND PROFILE

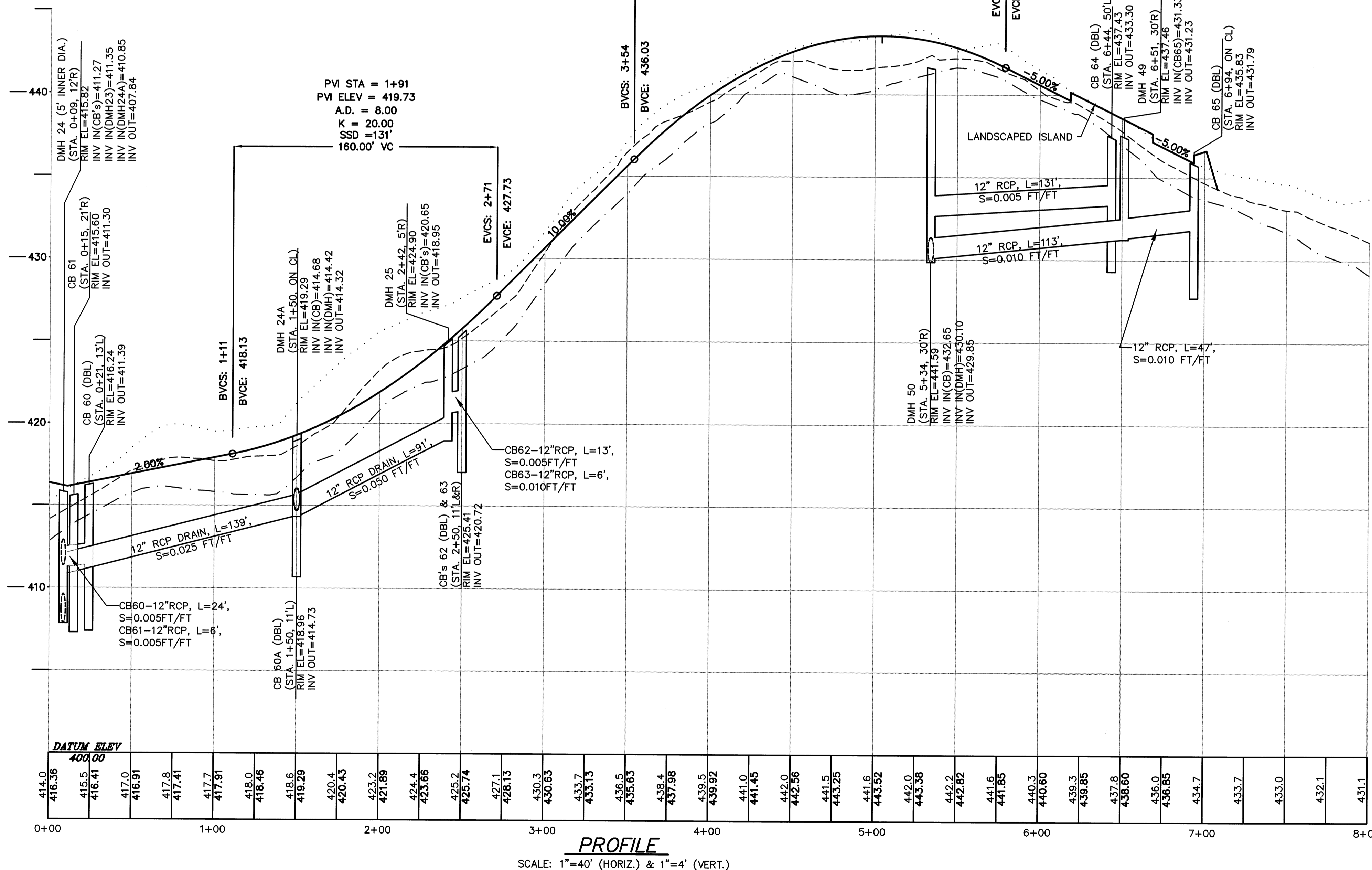
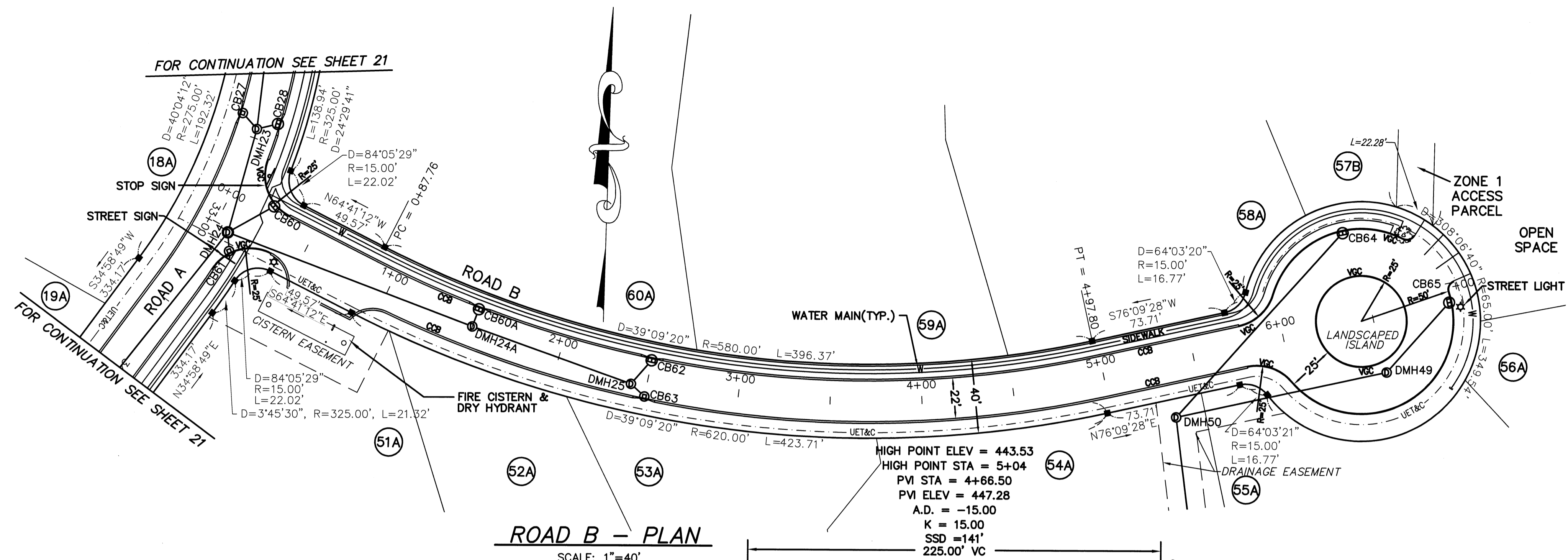
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD\PROFILE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

PLAN NO. 22 of 64





- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 60, 60A, 62, 64 & 65 SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
 - THE LOCATION OF INDIVIDUAL WATER SERVICES SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION; EACH WATER SERVICE THAT CROSSES A SUBDIVISION ROAD SHALL BE INSTALLED WITHIN A PIPE SLEEVE; EACH PIPE SLEEVE SHALL EXTEND A MINIMUM OF 3' BEYOND THE ROADWAY PAVEMENT.

PROFILE LEGEND

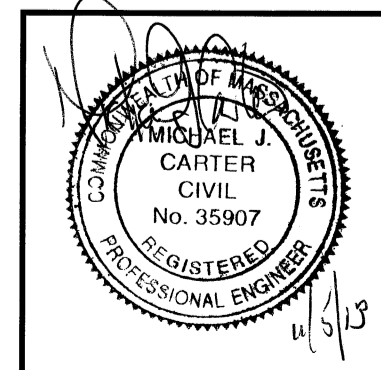
- EXISTING LEFT R.O.W. GRADE
- EXISTING RIGHT R.O.W. GRADE
- - - EXISTING CENTERLINE GRADE
- PROPOSED CENTERLINE GRADE

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

STREET PLAN AND PROFILE

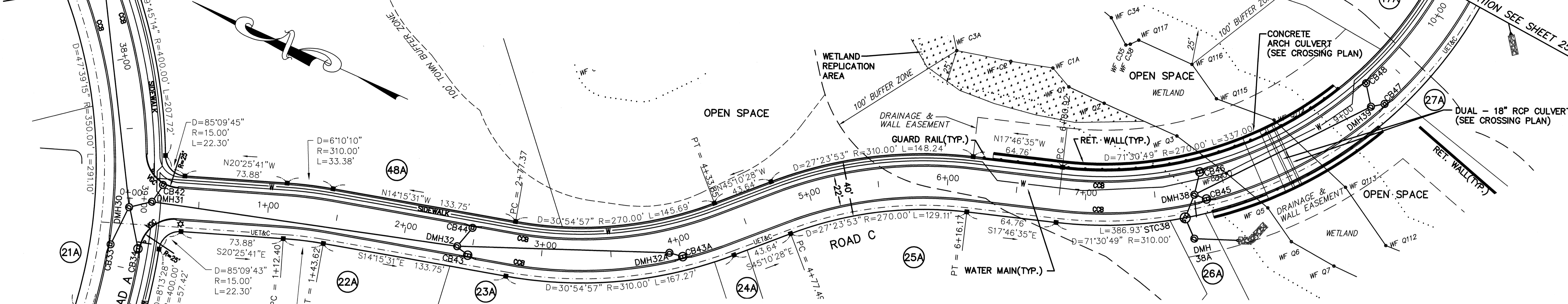
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS



SCALE: AS NOTED DATE: JANUARY 26, 2007
JOB NO./FILE NAME: 0213-DEF-LOT-MOD\PROFILE.DWG
DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C.
PLAN NO. 23 OF 64

FOR CONTINUATION SEE SHEET 22

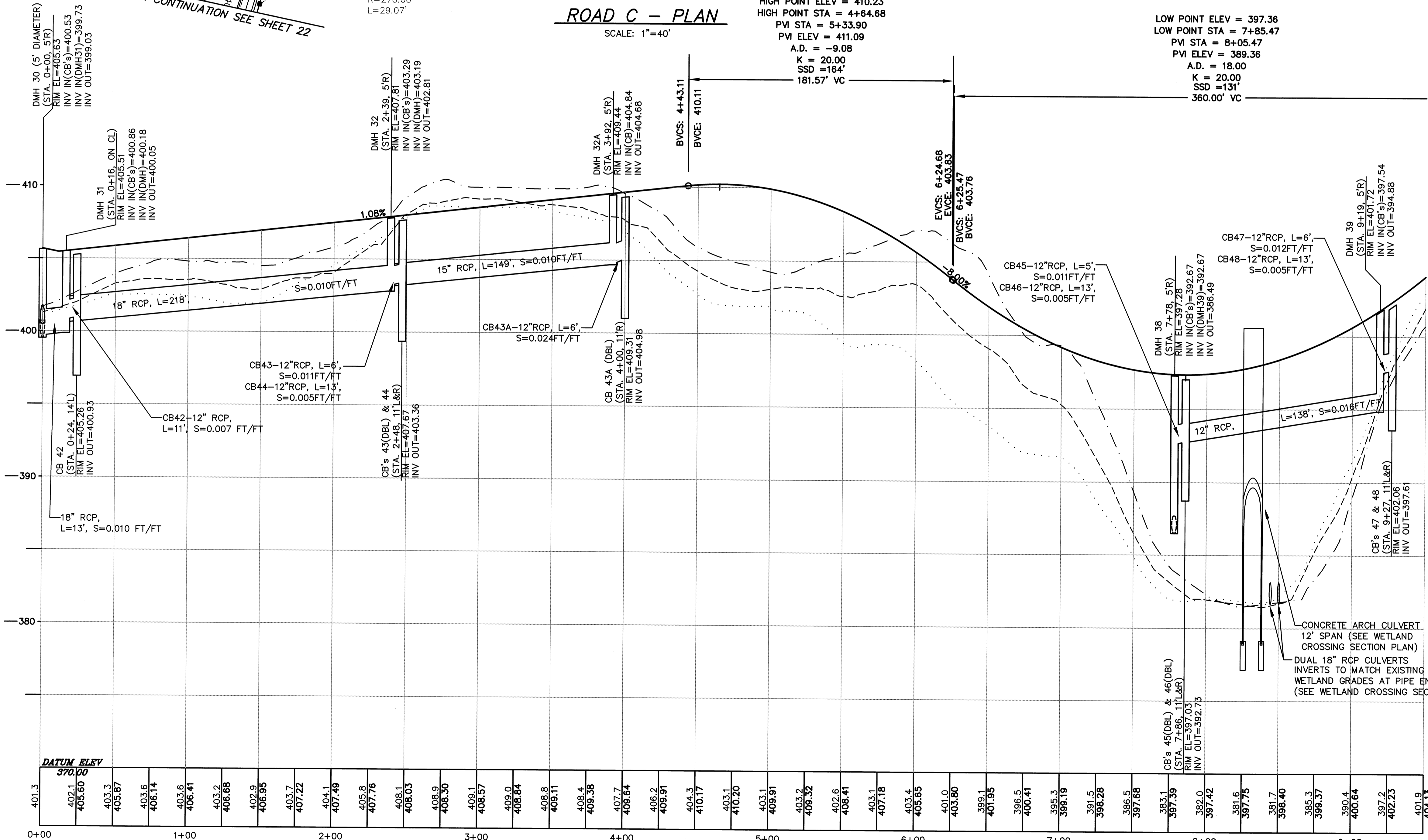
FOR CONTINUATION SEE SHEET 25



ROAD C - PLAN
SCALE: 1"=40'

HIGH POINT ELEV = 410.23
HIGH POINT STA = 4+64.68
PVI STA = 5+33.90
PVI ELEV = 411.09
A.D. = -9.08
K = 20.00
SSD = 164'
181.57' VC

LOW POINT ELEV = 397.36
LOW POINT STA = 7+85.47
PVI STA = 8+05.47
PVI ELEV = 389.36
A.D. = 18.00
K = 20.00
SSD = 131'
360.00' VC



PROFILE
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 34, 43, 43A, 45 & 46 SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
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PROFILE LEGEND

- EXISTING LEFT R.O.W. GRADE
- EXISTING RIGHT R.O.W. GRADE
- EXISTING CENTERLINE GRADE
- PROPOSED CENTERLINE GRADE

| NO. | DATE | DESCRIPTION | BY |
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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
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| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

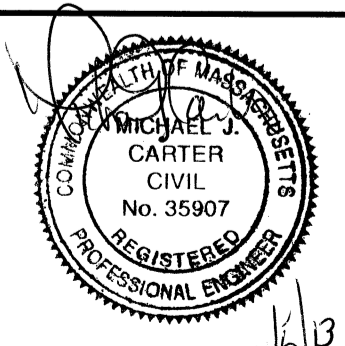
STREET PLAN AND PROFILE

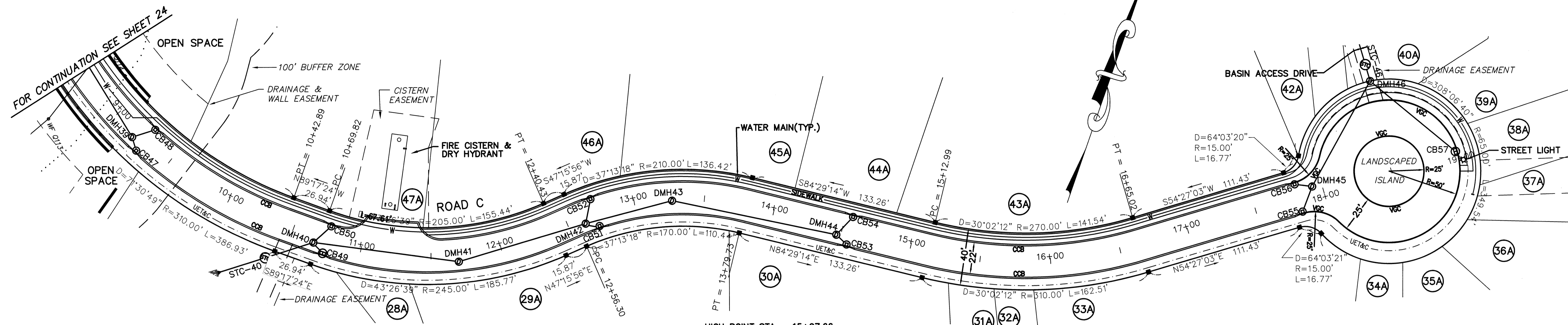
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ PROFILE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

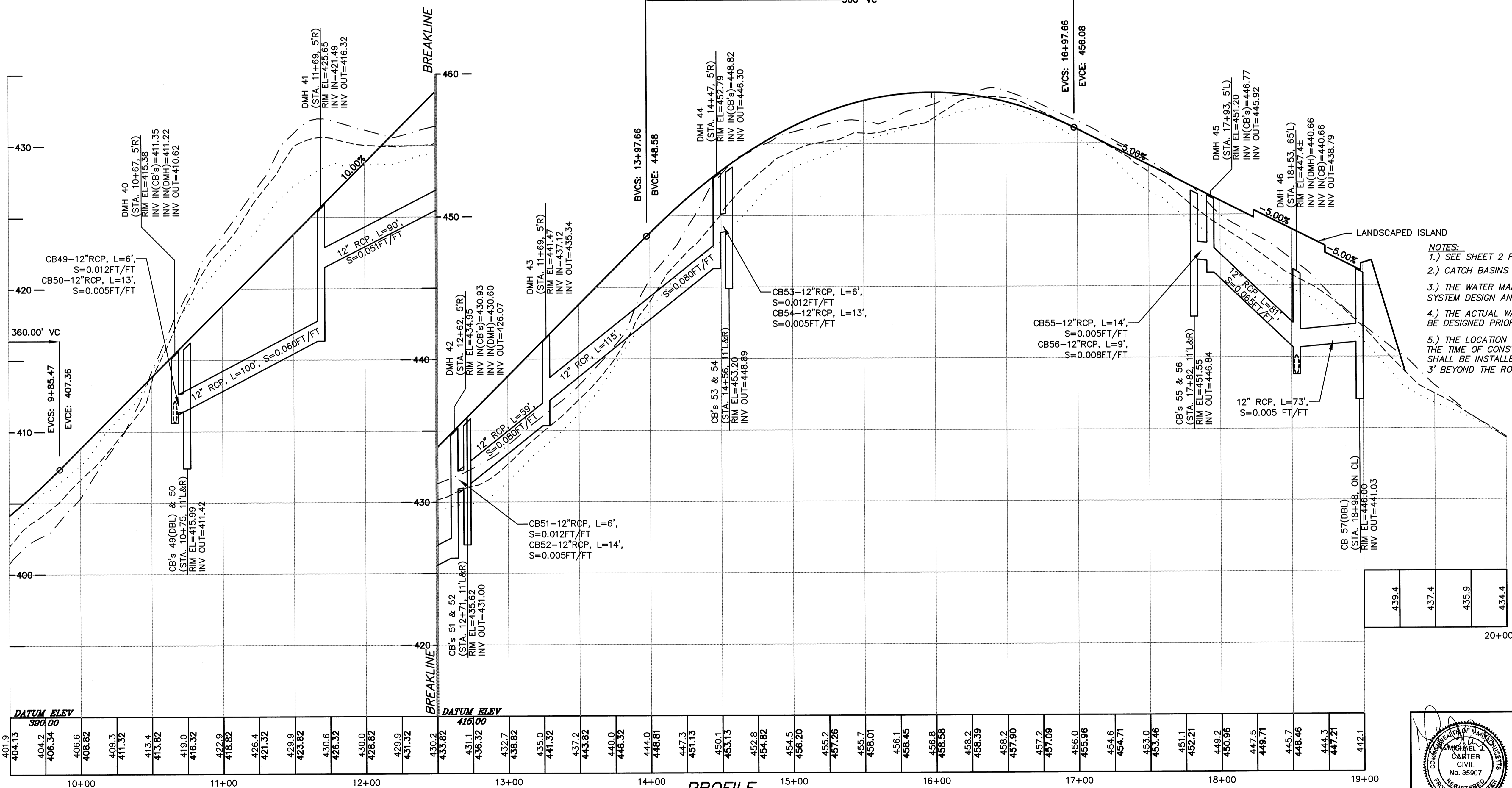
PLAN NO.
24 of 64





ROAD C - PLAN
SCALE: 1"=40'

HIGH POINT STA = 15+97.66
 PM STA = 15+47.66
 PVI ELEV = 463.58
 A.D. = -15.00
 K = 20.00
 SSD = 164'
 300' VC



| STATION | DATUM ELEV |
|---------|------------|
| 10+00 | 401.9 |
| | 404.2 |
| | 406.34 |
| | 406.6 |
| | 408.82 |
| | 409.3 |
| | 411.32 |
| | 413.4 |
| | 413.82 |
| | 419.0 |
| | 416.32 |
| 11+00 | 422.9 |
| | 418.82 |
| | 426.4 |
| | 421.32 |
| | 429.9 |
| | 423.82 |
| | 430.6 |
| | 426.32 |
| 12+00 | 430.0 |
| | 428.82 |
| | 429.9 |
| | 431.32 |
| 13+00 | 430.2 |
| | 433.82 |
| | 431.1 |
| | 436.32 |
| | 432.7 |
| | 438.82 |
| | 435.0 |
| | 441.32 |
| | 437.2 |
| | 443.82 |
| | 440.0 |
| | 446.32 |
| 14+00 | 444.0 |
| | 448.81 |
| | 447.3 |
| | 451.13 |
| | 450.1 |
| | 453.13 |
| | 452.8 |
| | 454.82 |
| | 454.5 |
| | 456.20 |
| | 455.2 |
| | 457.26 |
| | 455.7 |
| | 458.01 |
| | 458.1 |
| | 458.45 |
| | 458.8 |
| | 458.58 |
| | 458.2 |
| | 458.39 |
| | 458.2 |
| | 457.90 |
| | 457.2 |
| | 457.09 |
| | 456.0 |
| | 455.96 |
| | 454.6 |
| | 454.71 |
| | 453.0 |
| | 453.46 |
| | 451.1 |
| | 452.21 |
| | 449.2 |
| | 450.96 |
| | 447.5 |
| | 448.71 |
| | 445.7 |
| | 448.46 |
| | 444.3 |
| | 447.21 |
| 19+00 | 442.1 |

PROFILE
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

- NOTES:**
- SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 - CATCH BASINS CB 49 & 57 SHALL BE DOUBLE GRATED CATCH BASINS.
 - THE WATER MAIN LOCATION SHOWN IS SUBJECT TO CHANGE BASED ON THE FINAL WATER SYSTEM DESIGN AND/OR TO SUIT FIELD CONDITIONS.
 - THE ACTUAL WATER SYSTEM DESIGN INCLUDING PIPE SIZES, VALVE LOCATIONS, ETC. SHALL BE DESIGNED PRIOR TO CONSTRUCTION OF THE WATER SYSTEM.
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PROFILE LEGEND

- EXISTING LEFT R.O.W. GRADE
- EXISTING RIGHT R.O.W. GRADE
- EXISTING CENTERLINE GRADE
- PROPOSED CENTERLINE GRADE

| NO. | DATE | DESCRIPTION | BY |
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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
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| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

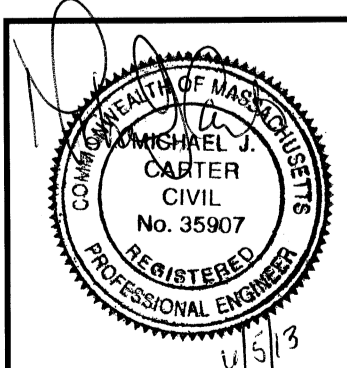
STREET PLAN AND PROFILE

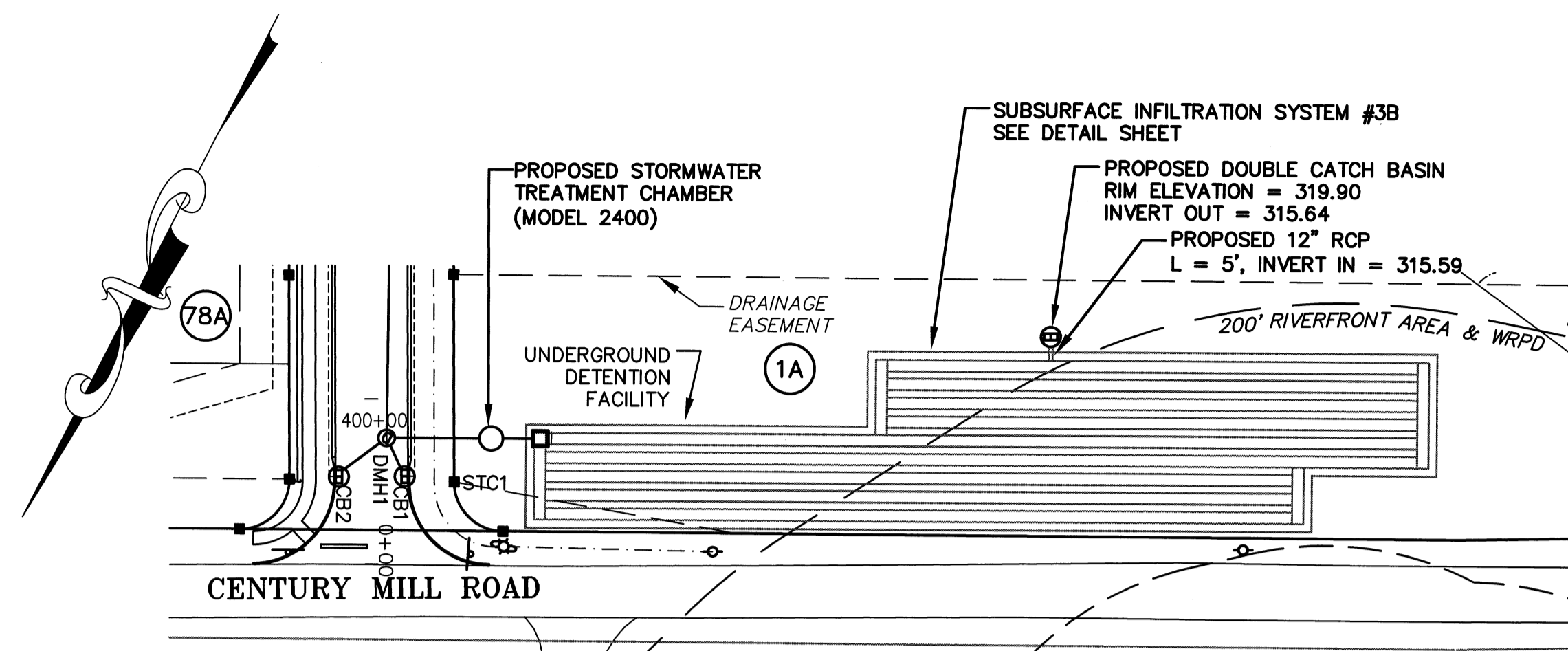
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

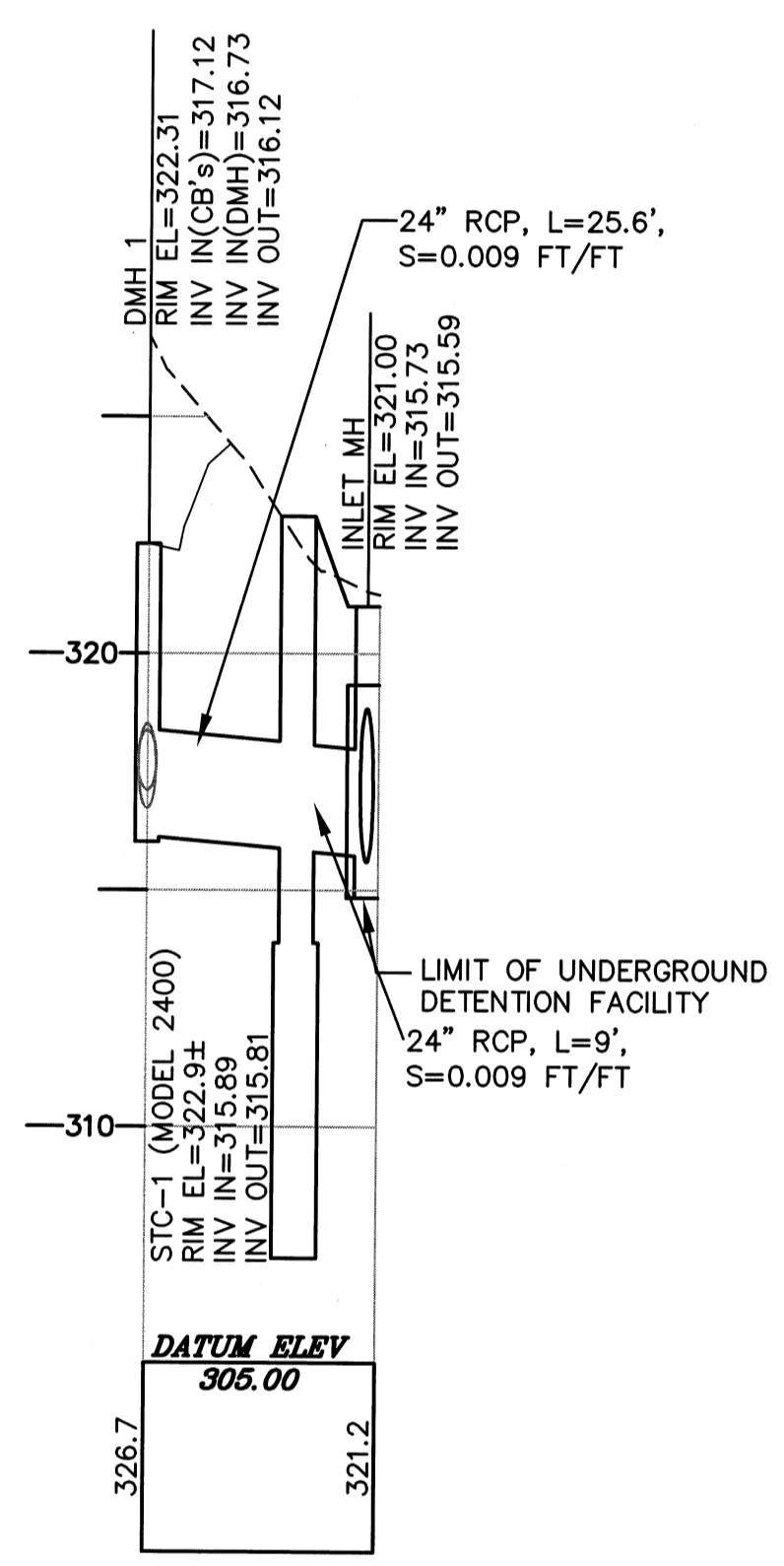
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD PROFILE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

PLAN NO. 25 OF 64

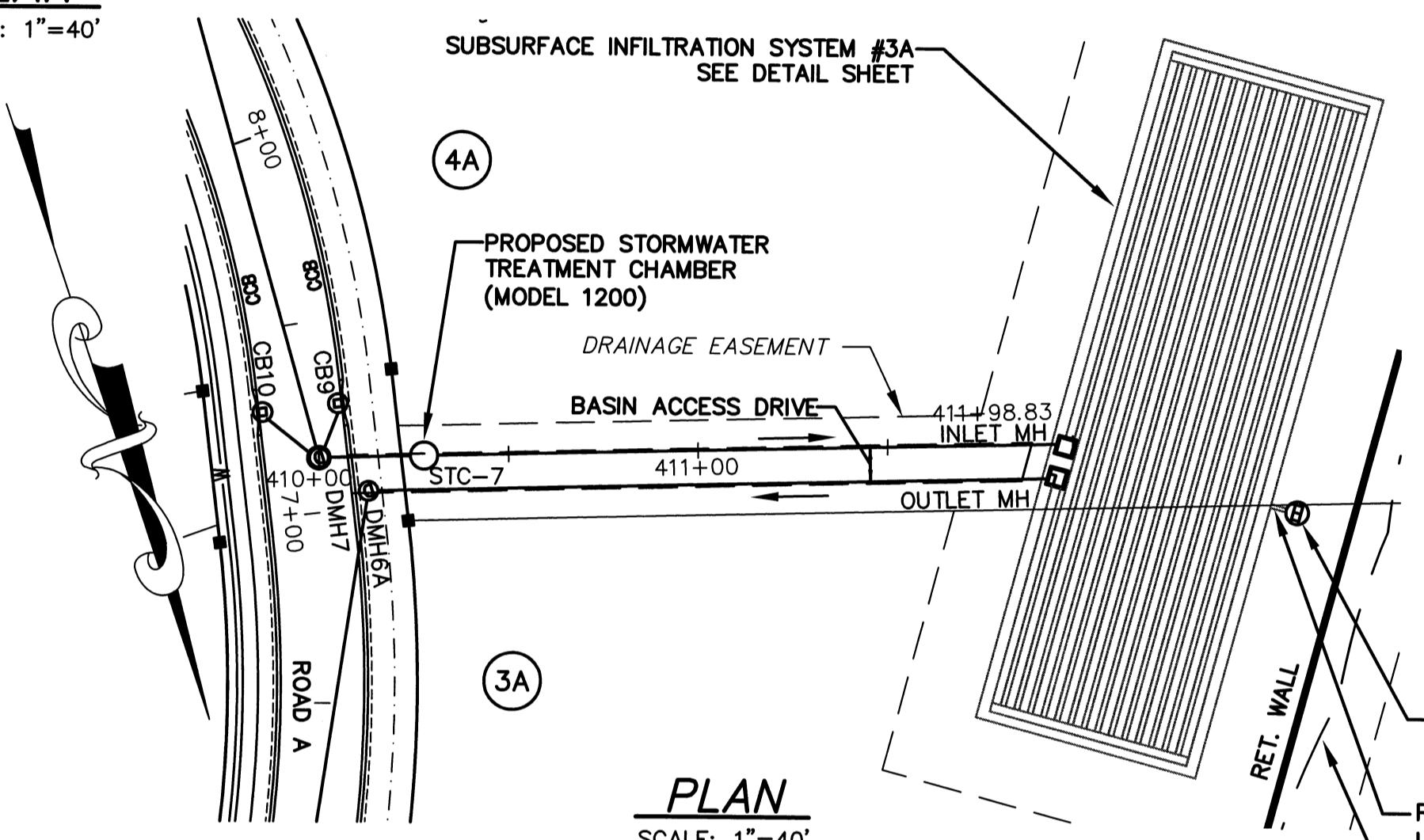




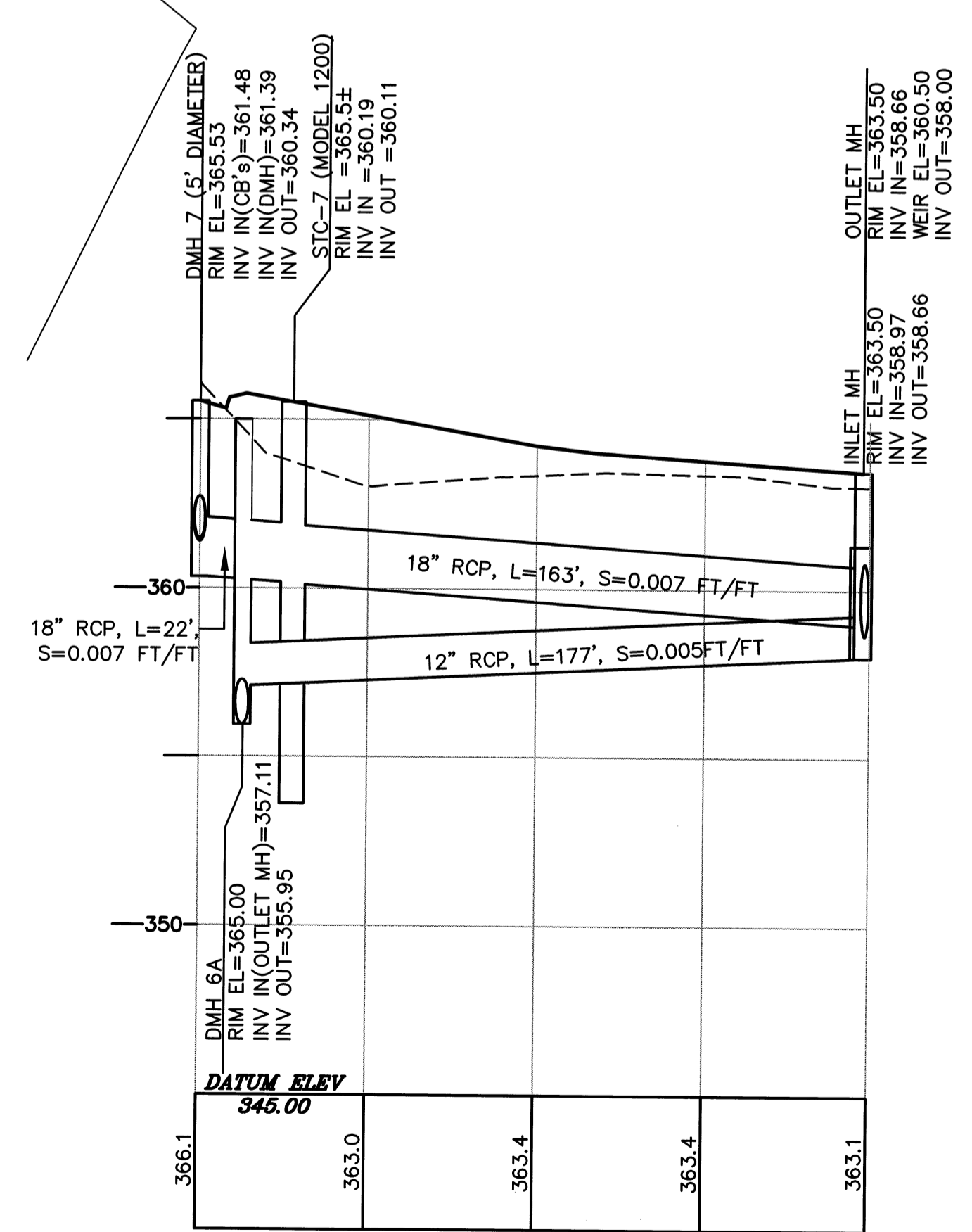
PLAN
SCALE: 1"=40'



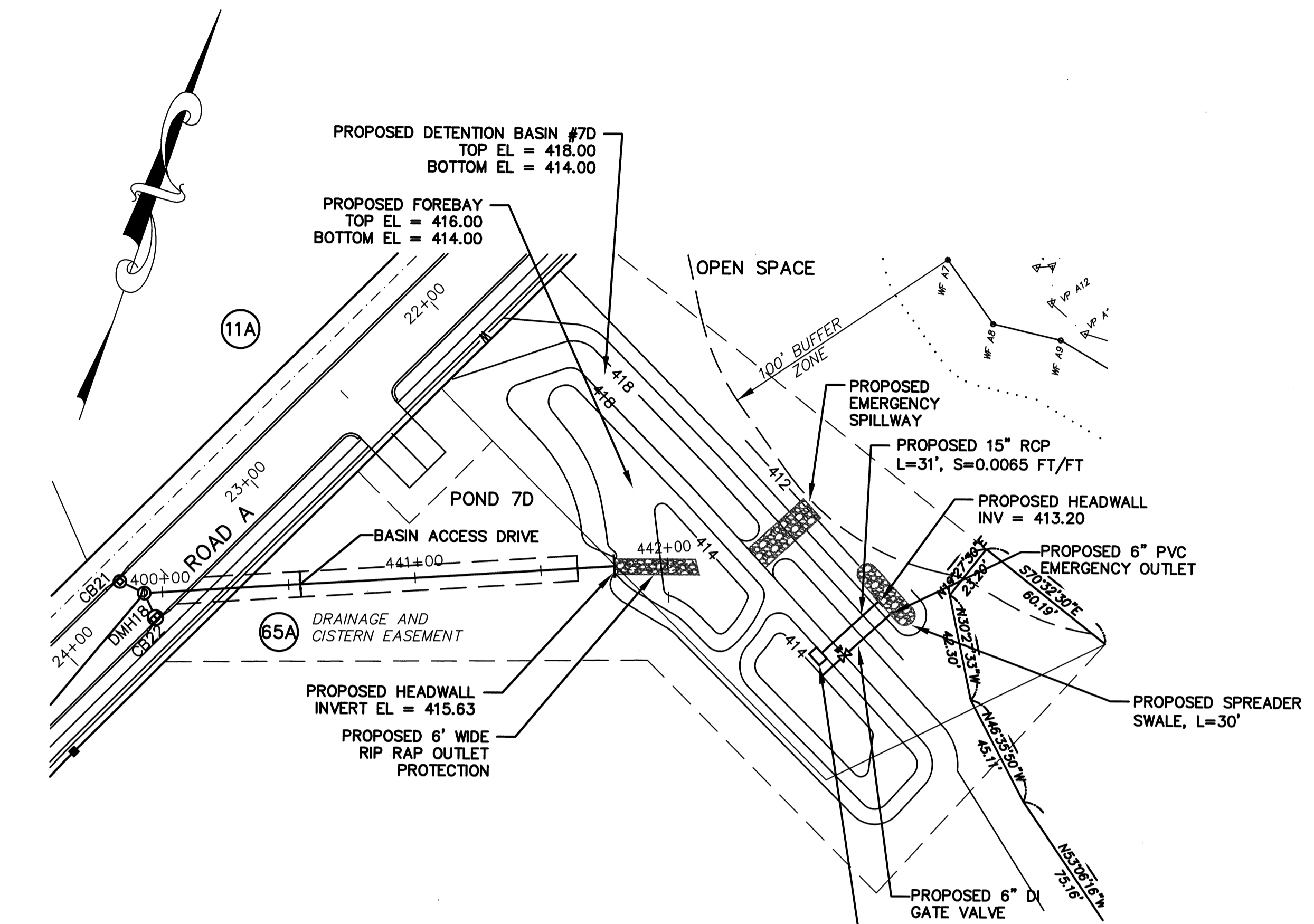
DMH1 TO UNDERGROUND INFILTRATION FACILITY #3B
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



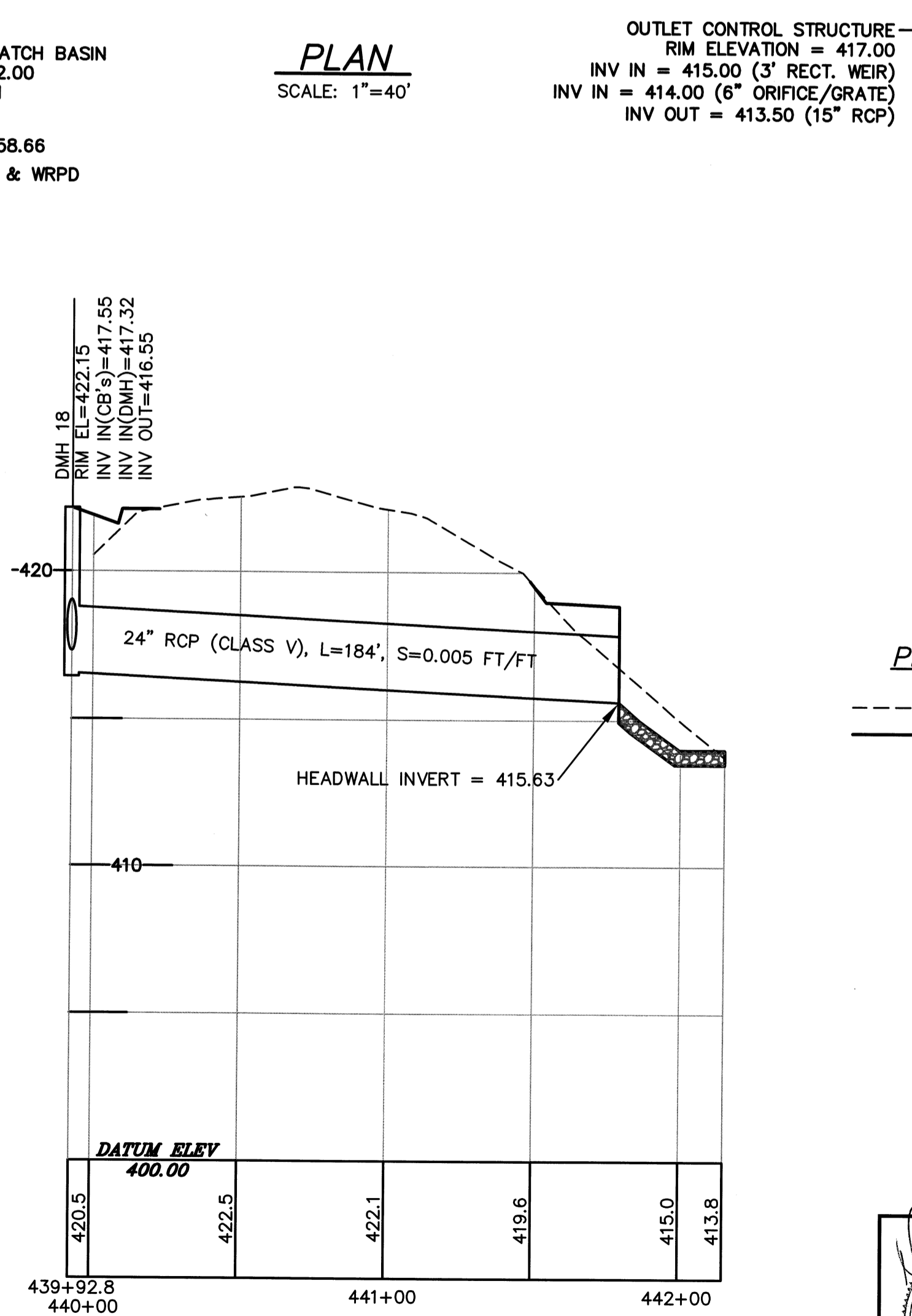
PLAN
SCALE: 1"=40'



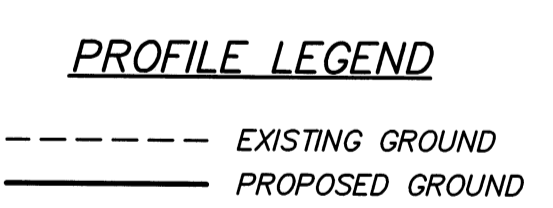
DMH7 TO UNDERGROUND INFILTRATION FACILITY TO DMH6A
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



PLAN
SCALE: 1"=40'



DMH 18 TO POND 7D
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

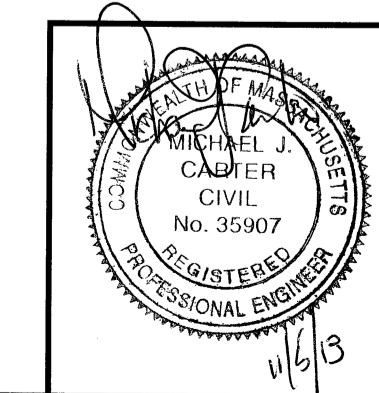
DEFINITIVE SUBDIVISION OF LAND IN BOLTON

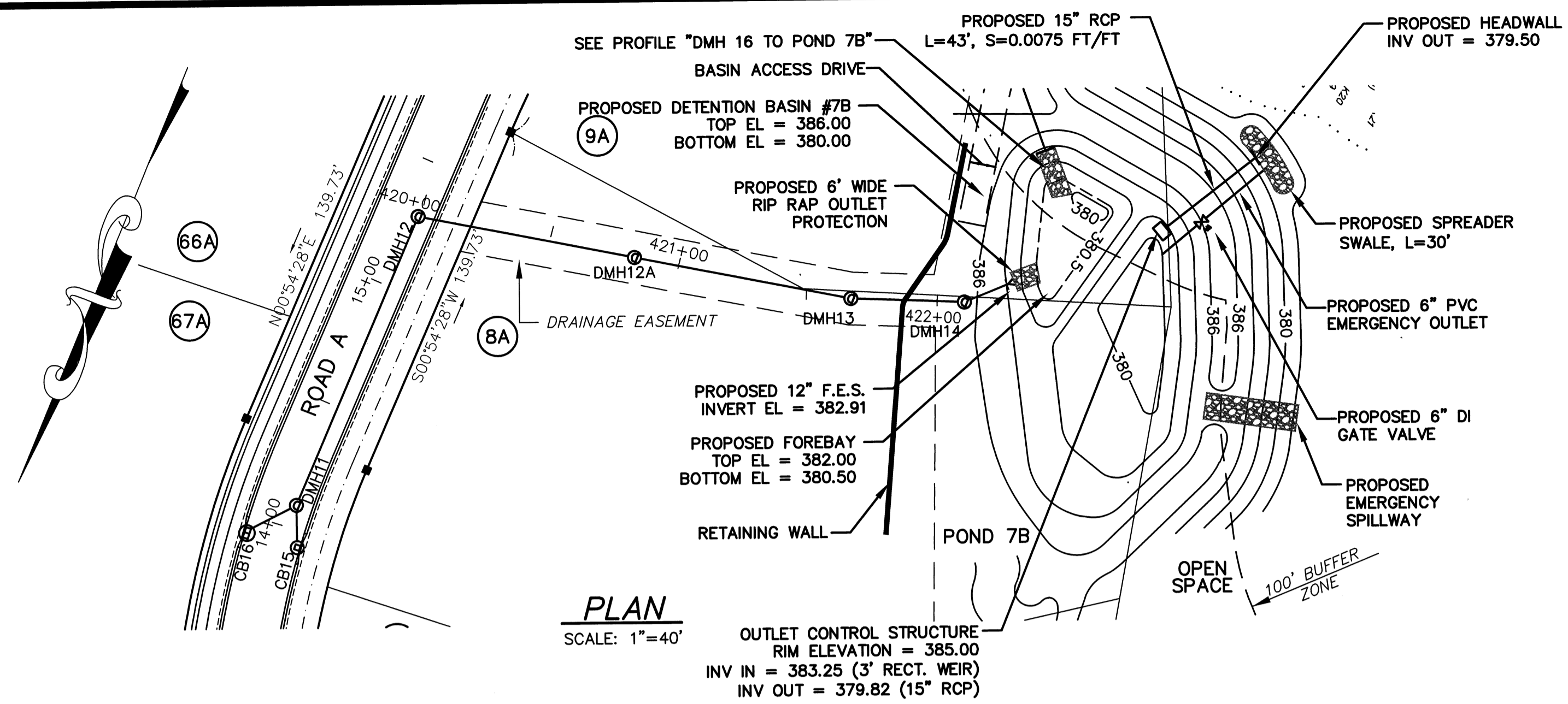
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

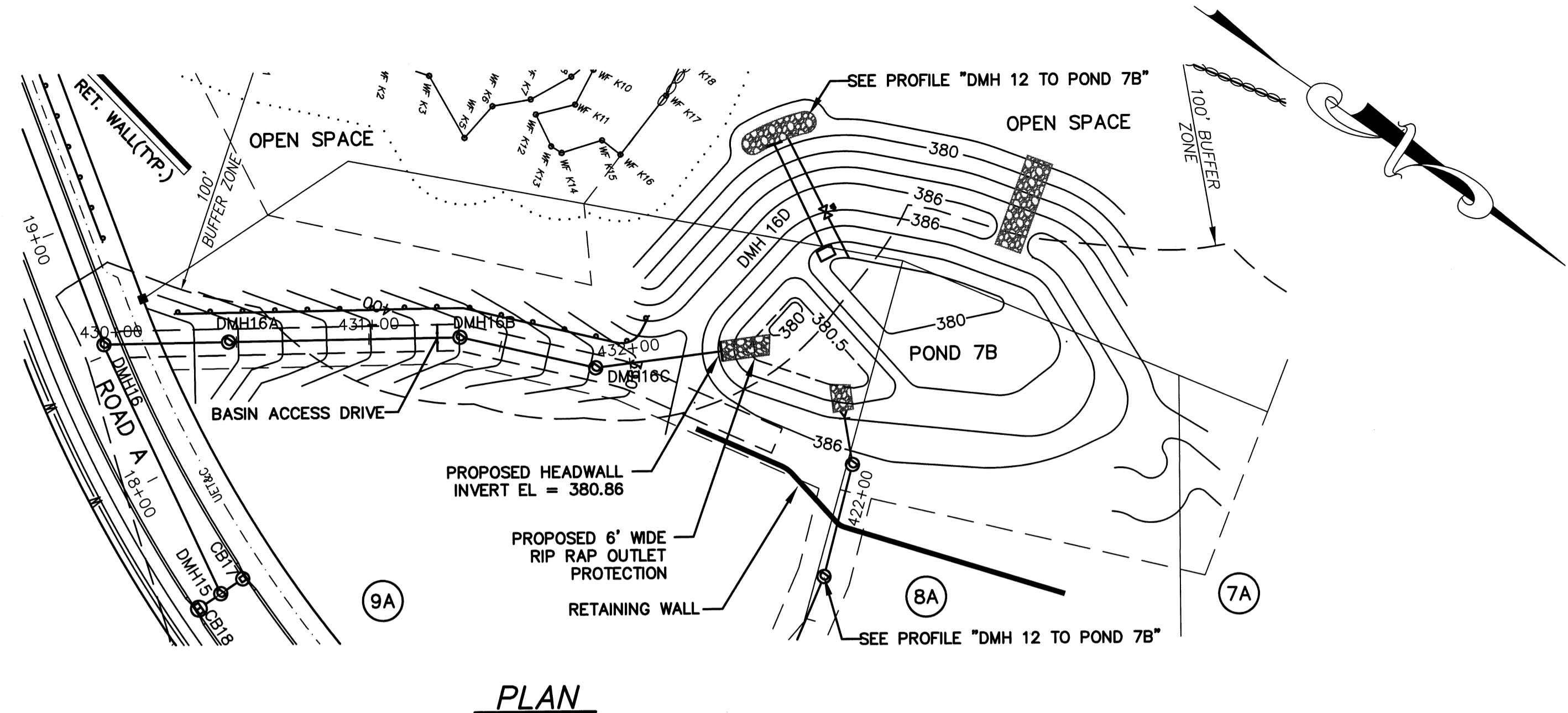
SCALE: AS NOTED DATE: JANUARY 26, 2007
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ PROFILE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 26 of 64



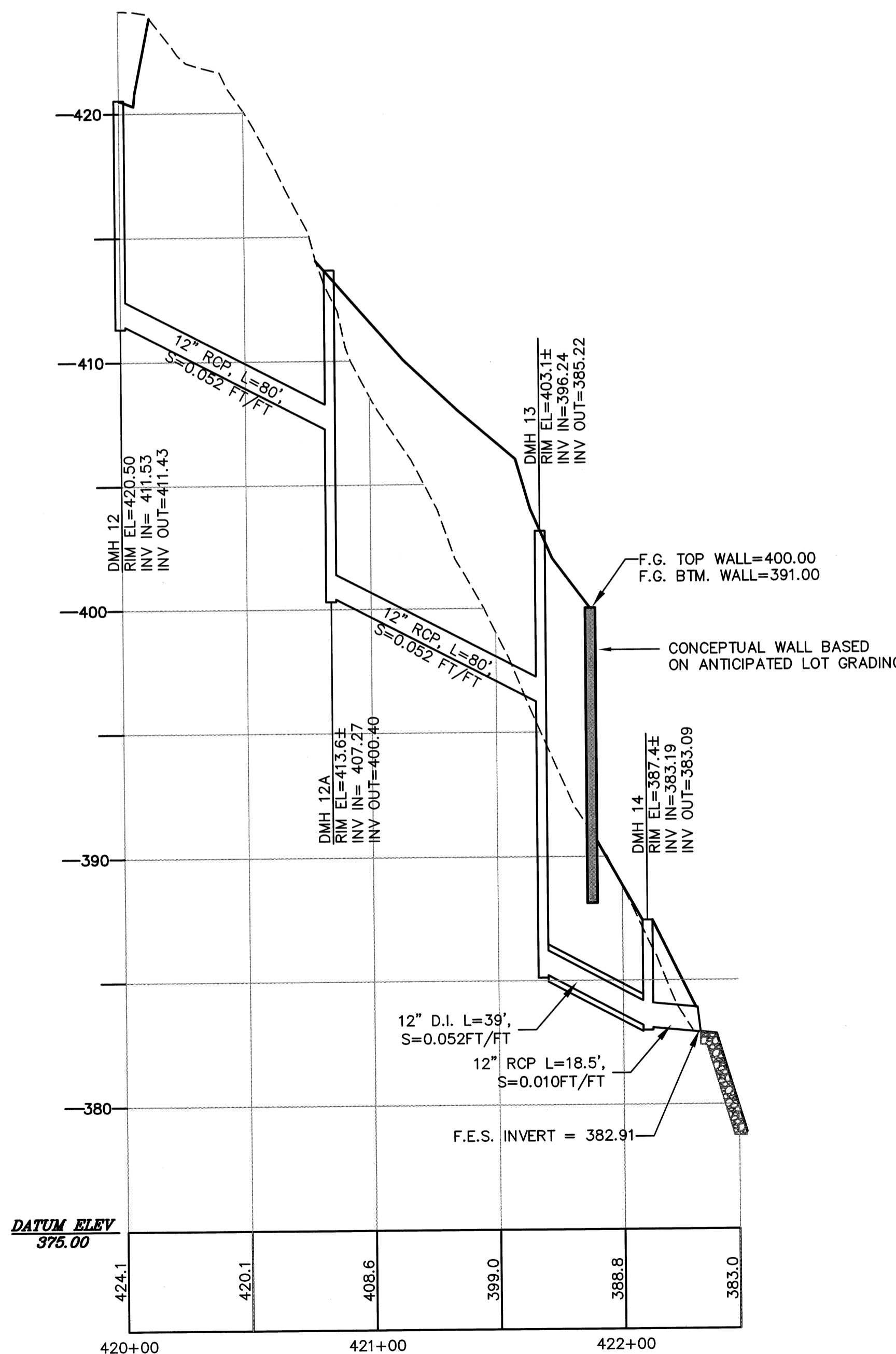


PLAN
SCALE: 1"=40'

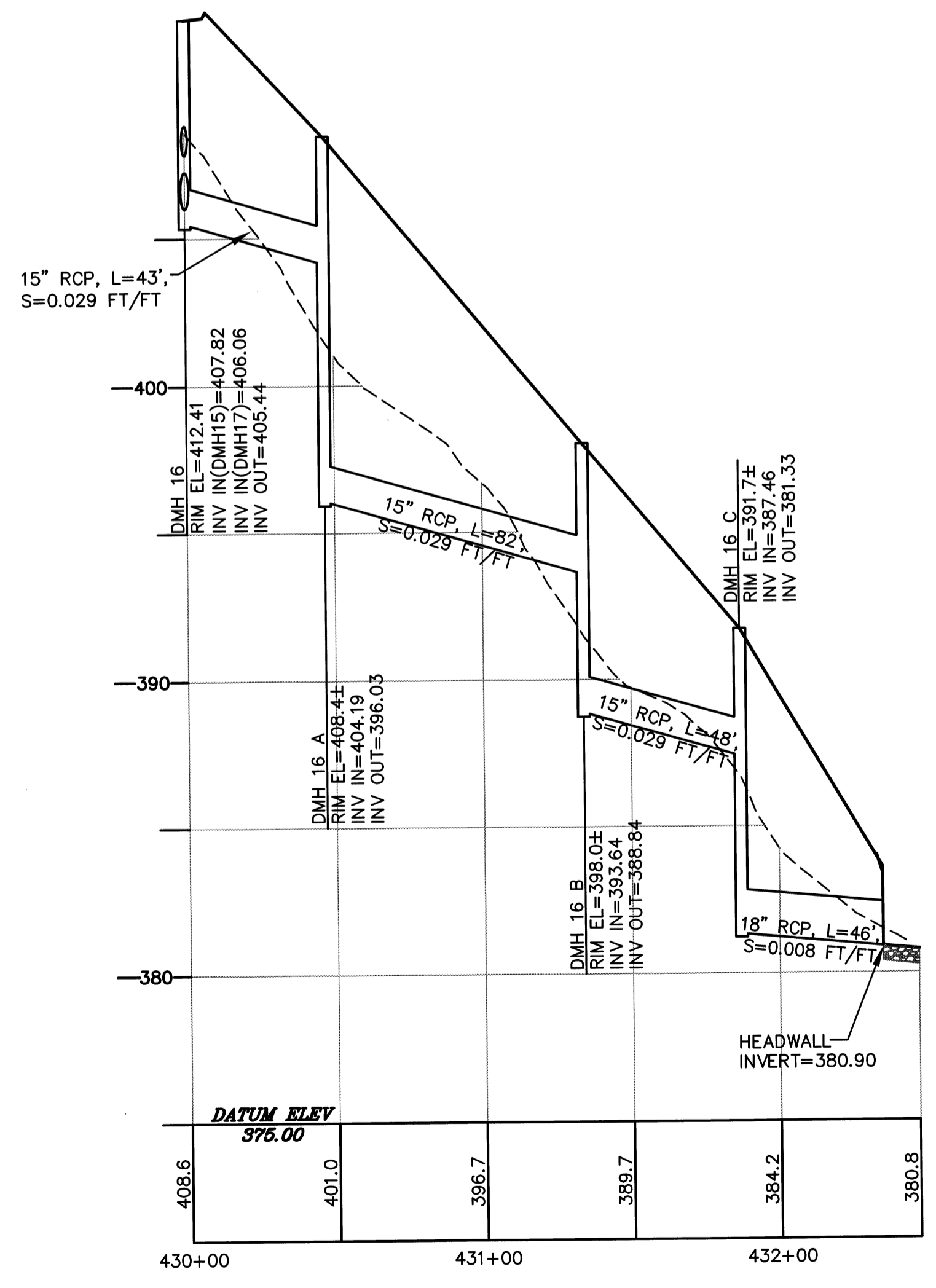
OUTLET CONTROL STRUCTURE
RIM ELEVATION = 385.00
INV IN = 383.25 (3' RECT. WEIR)
INV OUT = 379.82 (15" RCP)



PLAN
SCALE: 1"=40'



DMH 12 TO POND 7B
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



DMH 16 TO POND 7B
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

PROFILE LEGEND

| | |
|-----|-----------------|
| --- | EXISTING GROUND |
| — | PROPOSED GROUND |

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

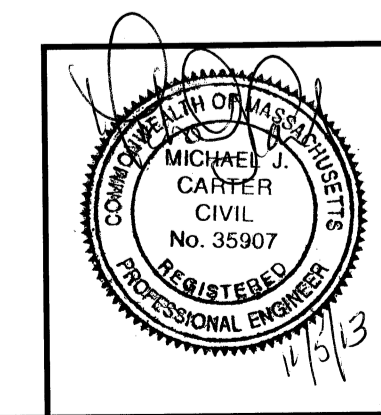
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

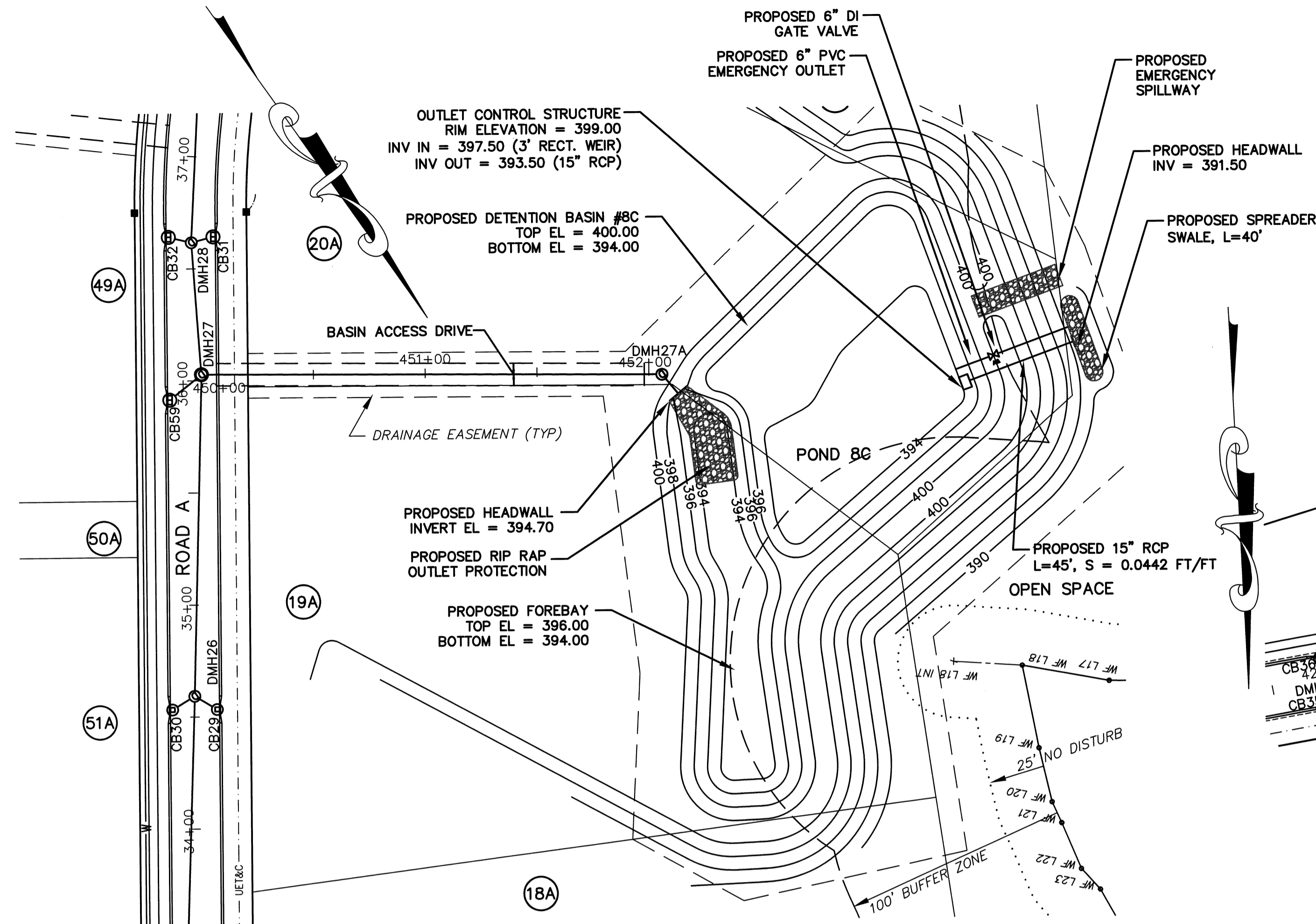
**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

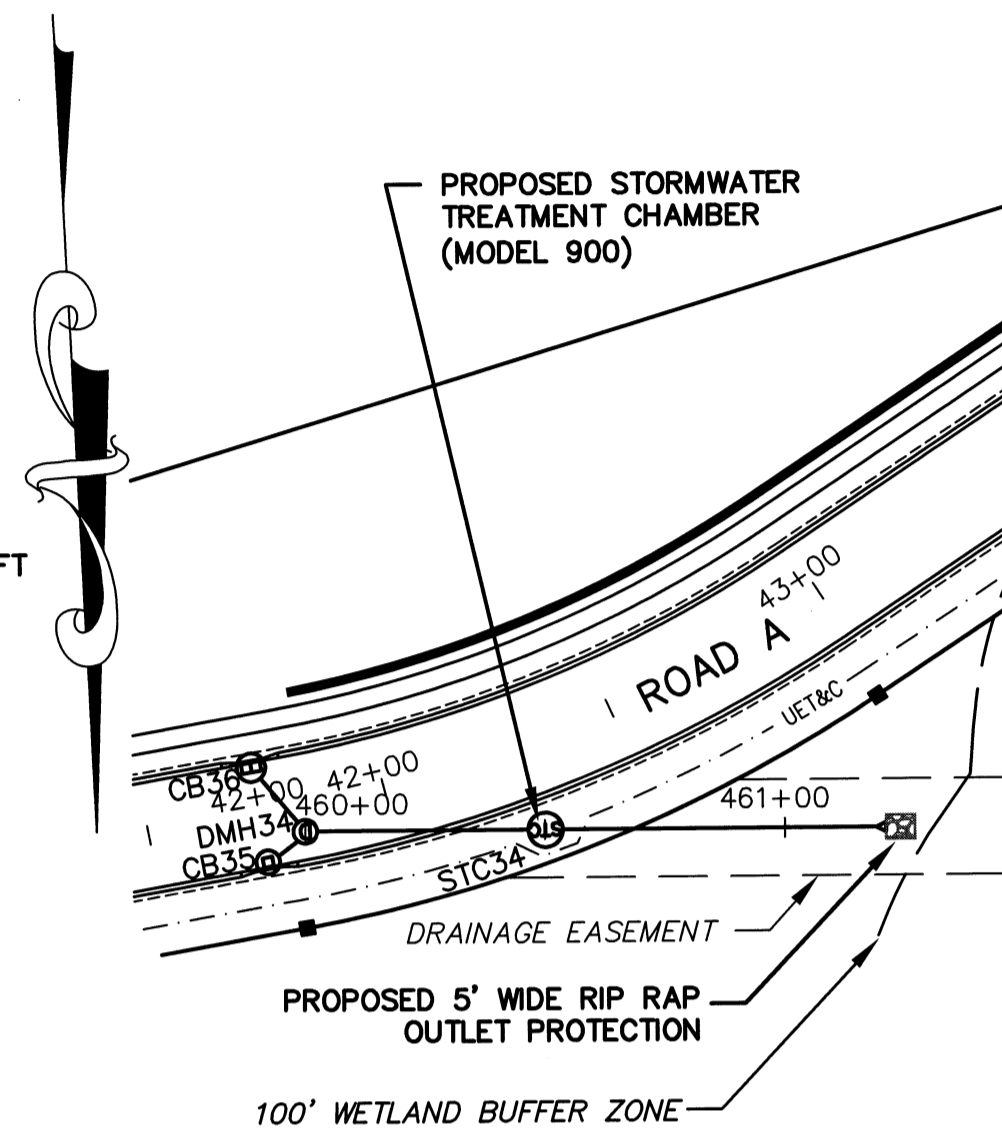
SCALE: AS NOTED DATE: JANUARY 26, 2007

| | | |
|--|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ PROFILE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 27 OF 64 |
|--|---|----------------------|

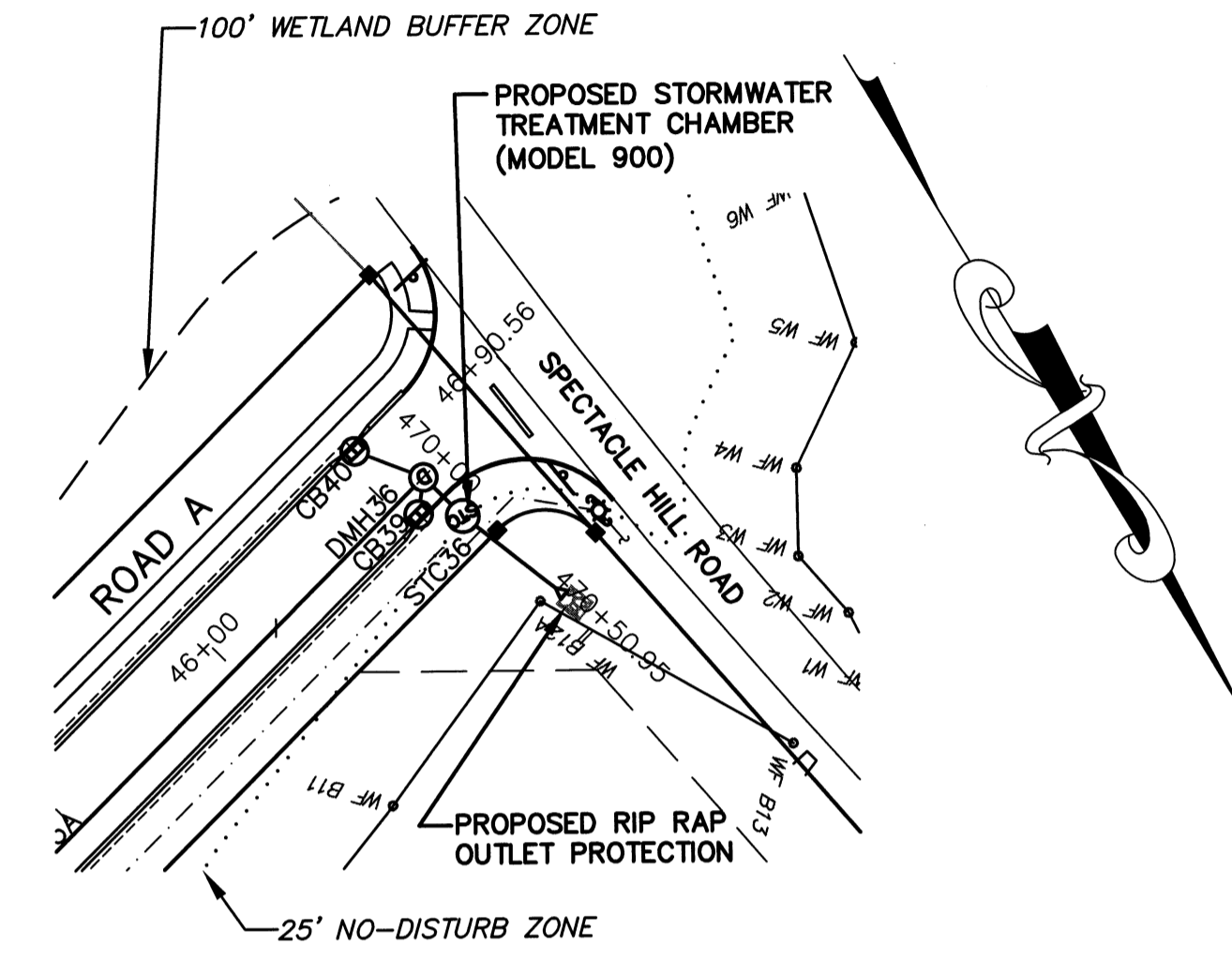




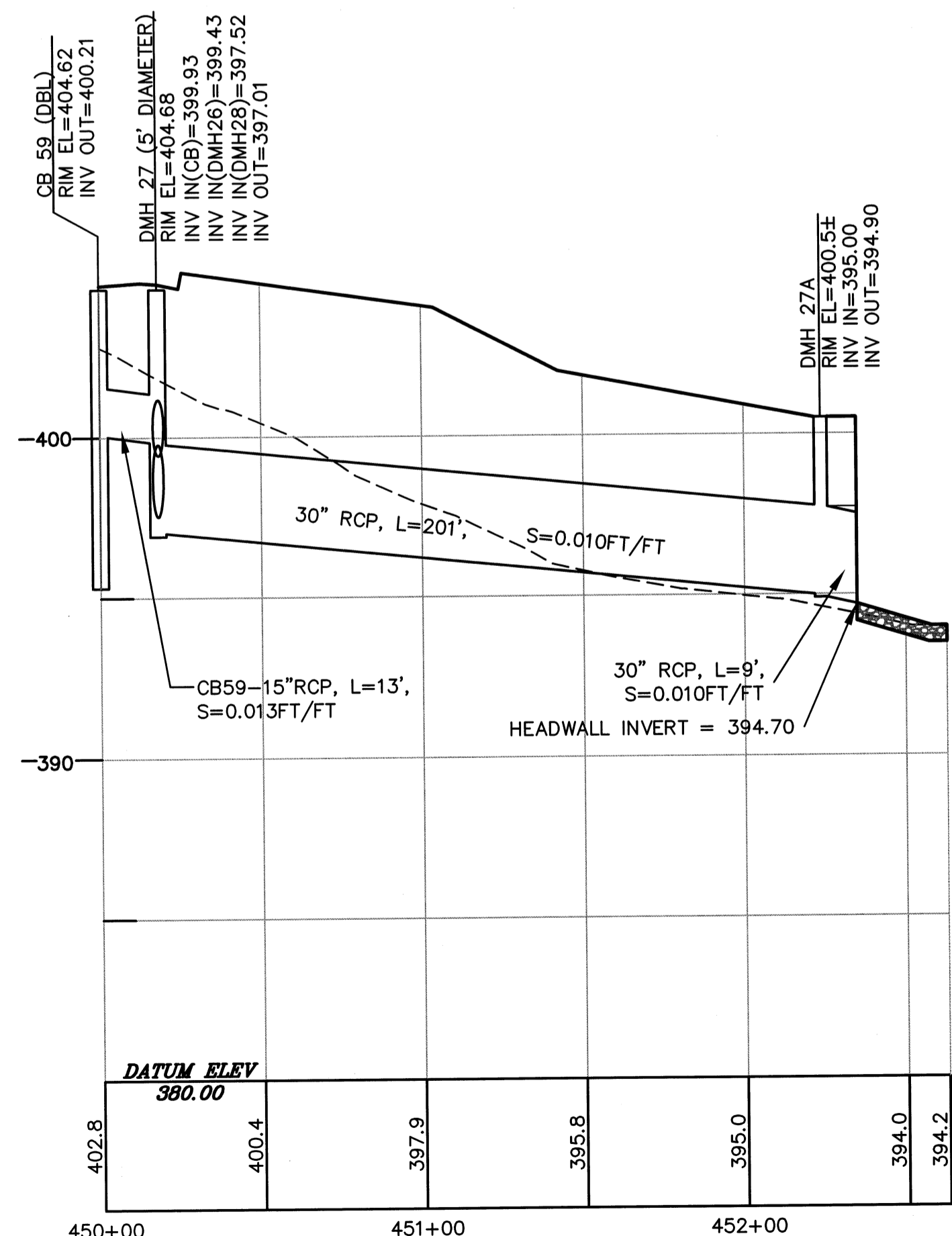
PLAN
SCALE: 1"=40'



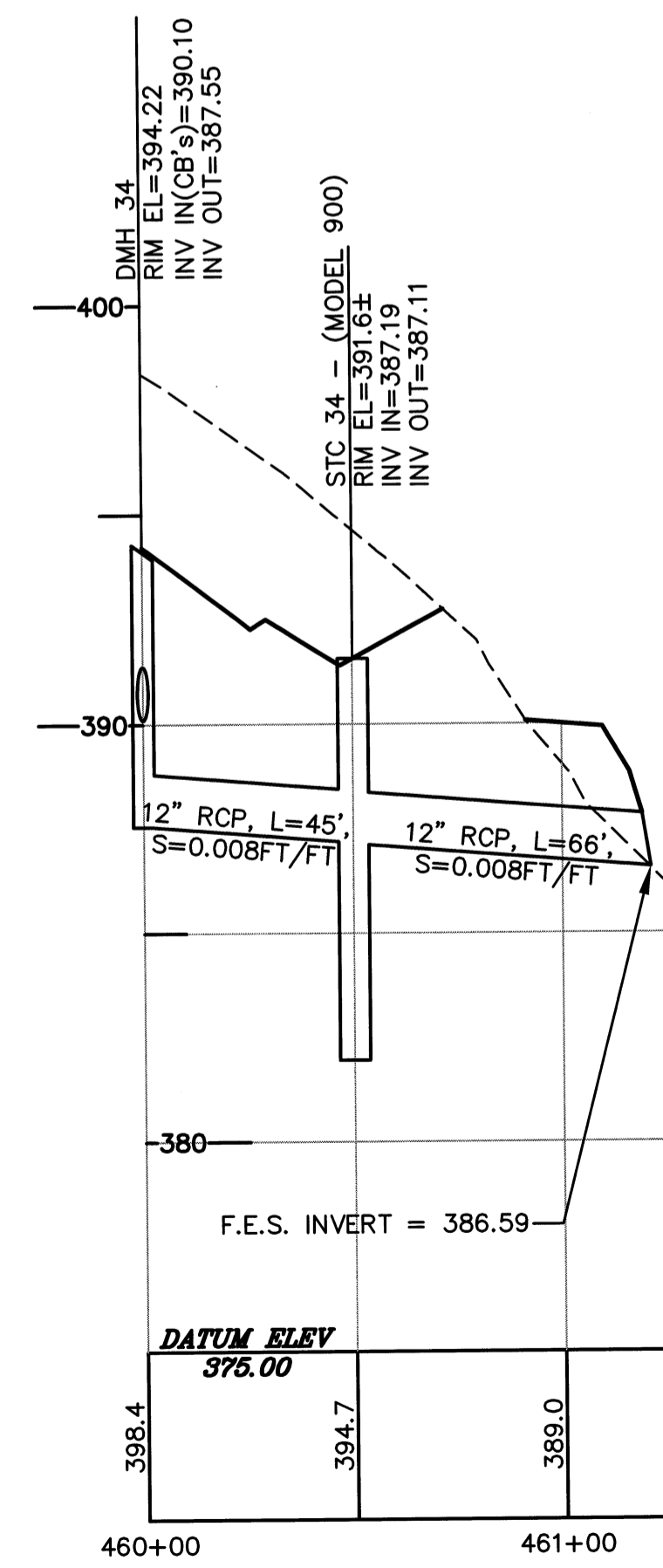
PLAN
SCALE: 1"=40'



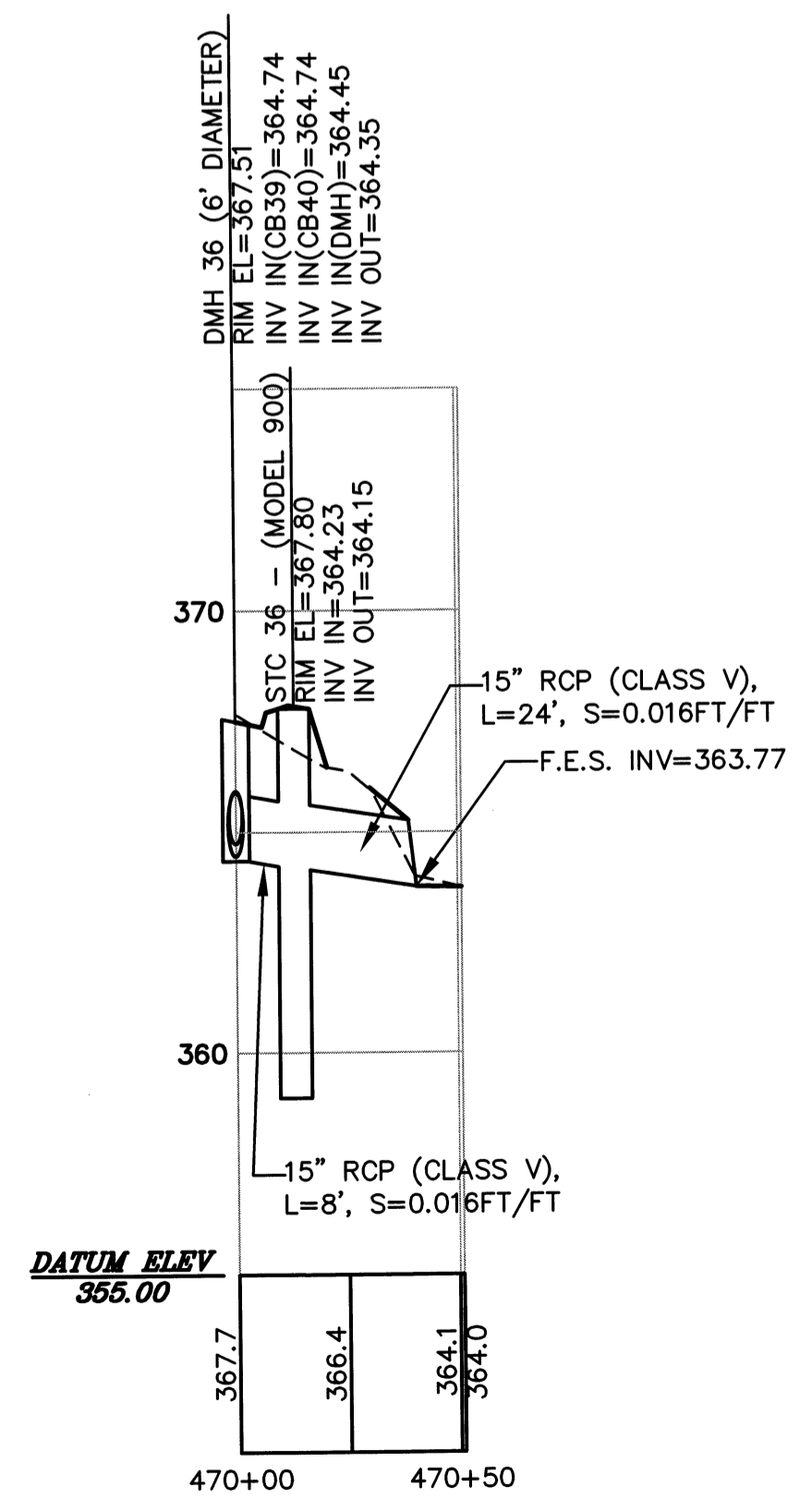
PLAN
SCALE: 1"=40'



CB 59 TO POND 8C
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



DMH34 TO WETLANDS
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



DMH36 TO WETLANDS
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

PROFILE LEGEND
 - - - - - EXISTING GROUND
 ————— PROPOSED GROUND

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| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

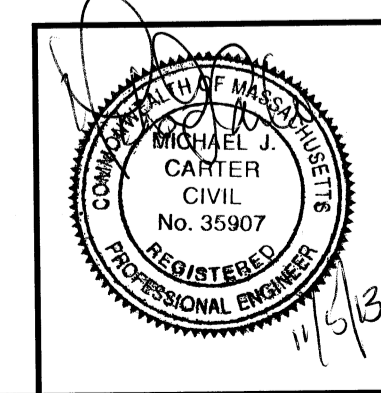
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

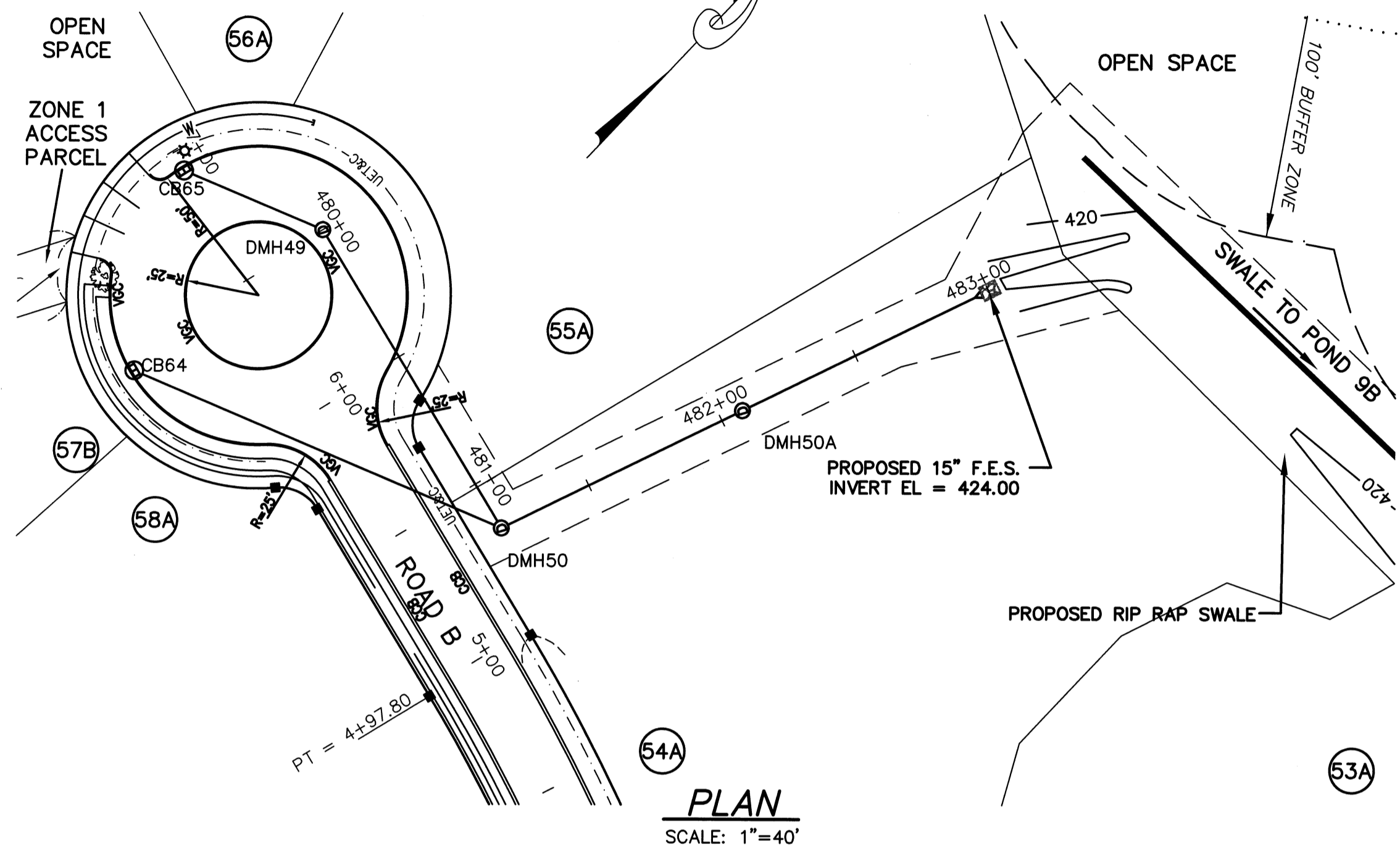
**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

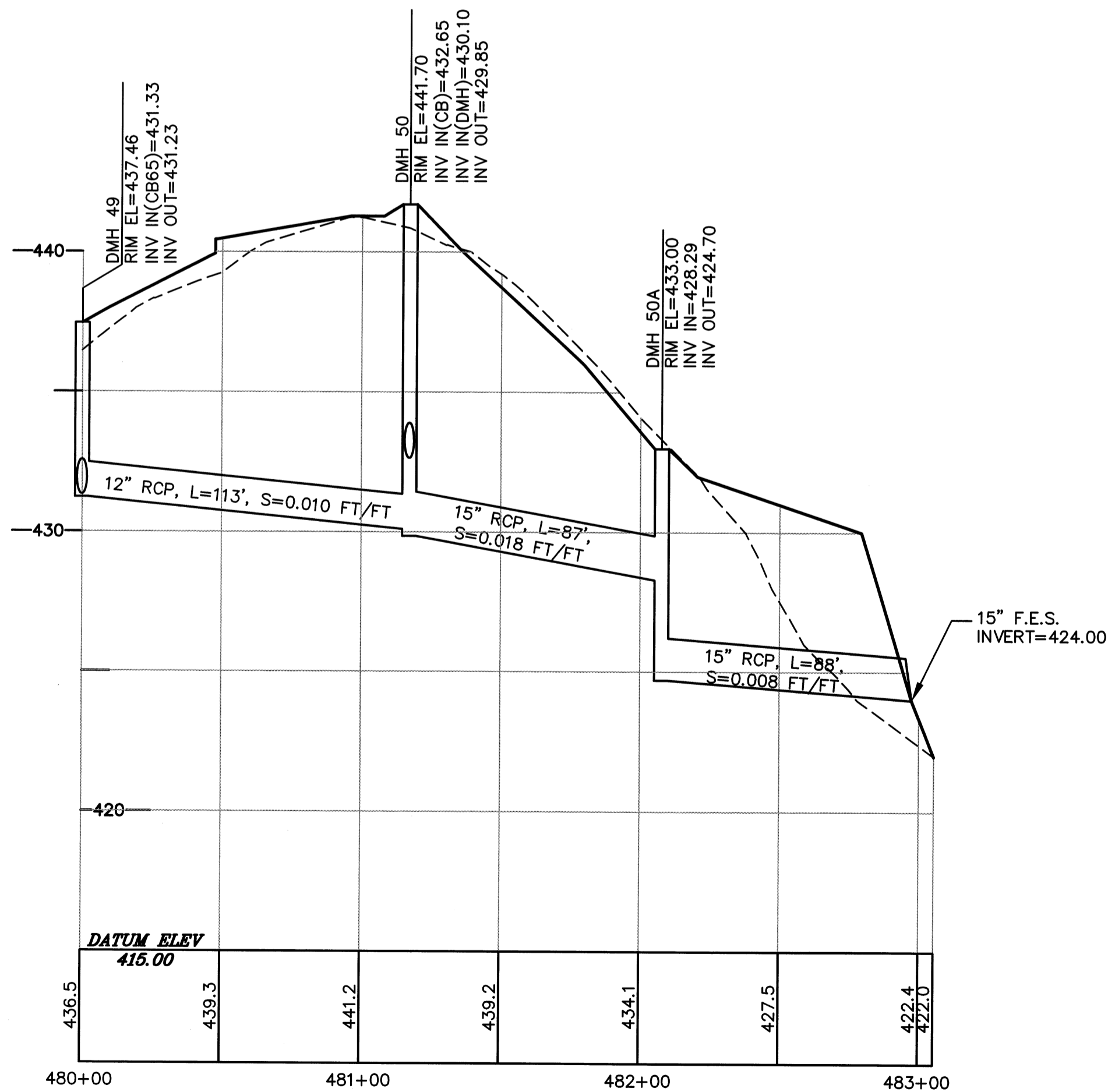
SCALE: AS NOTED DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ PROFILE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 28 OF 64 |
|---|---|----------------------|

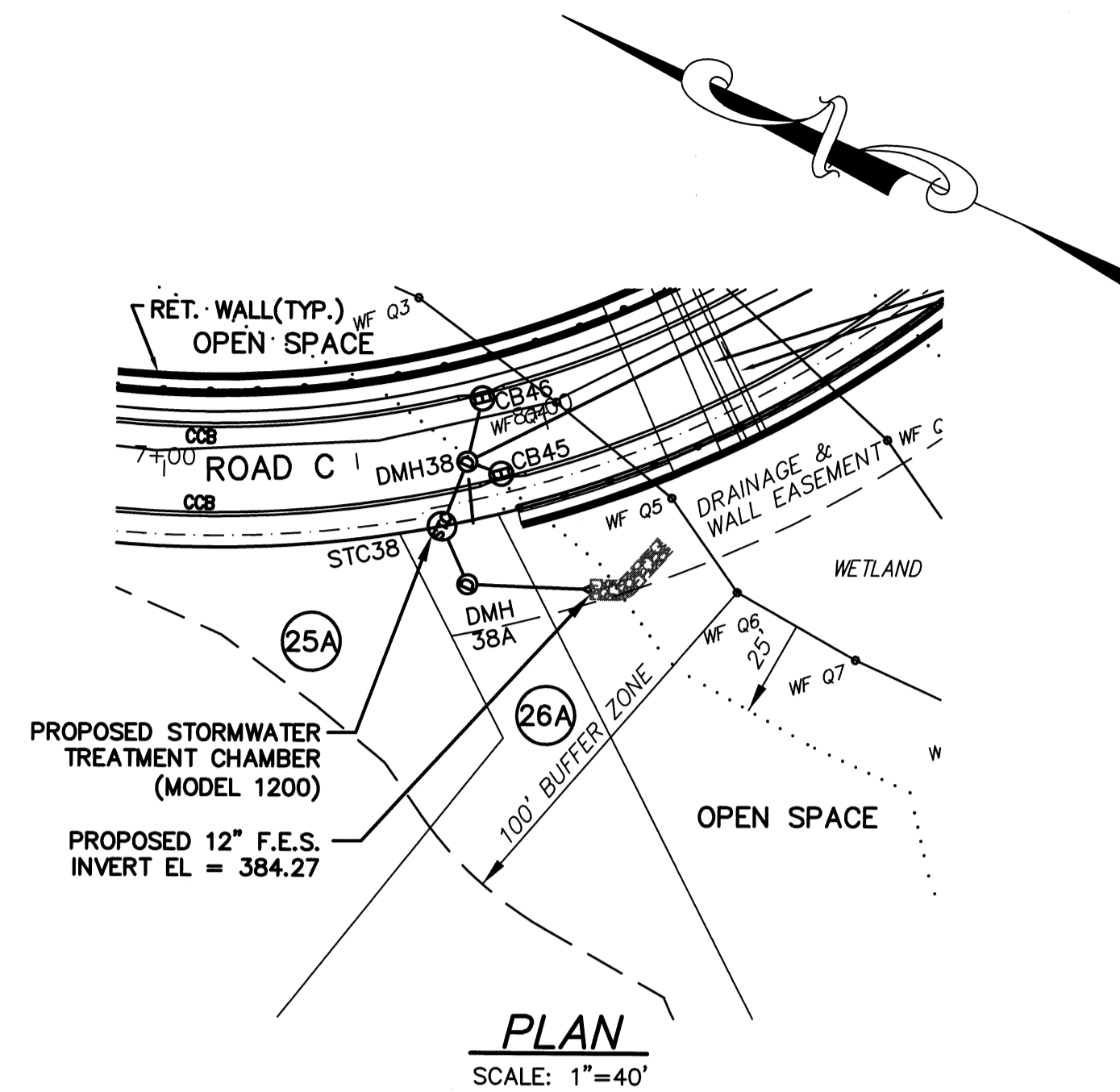




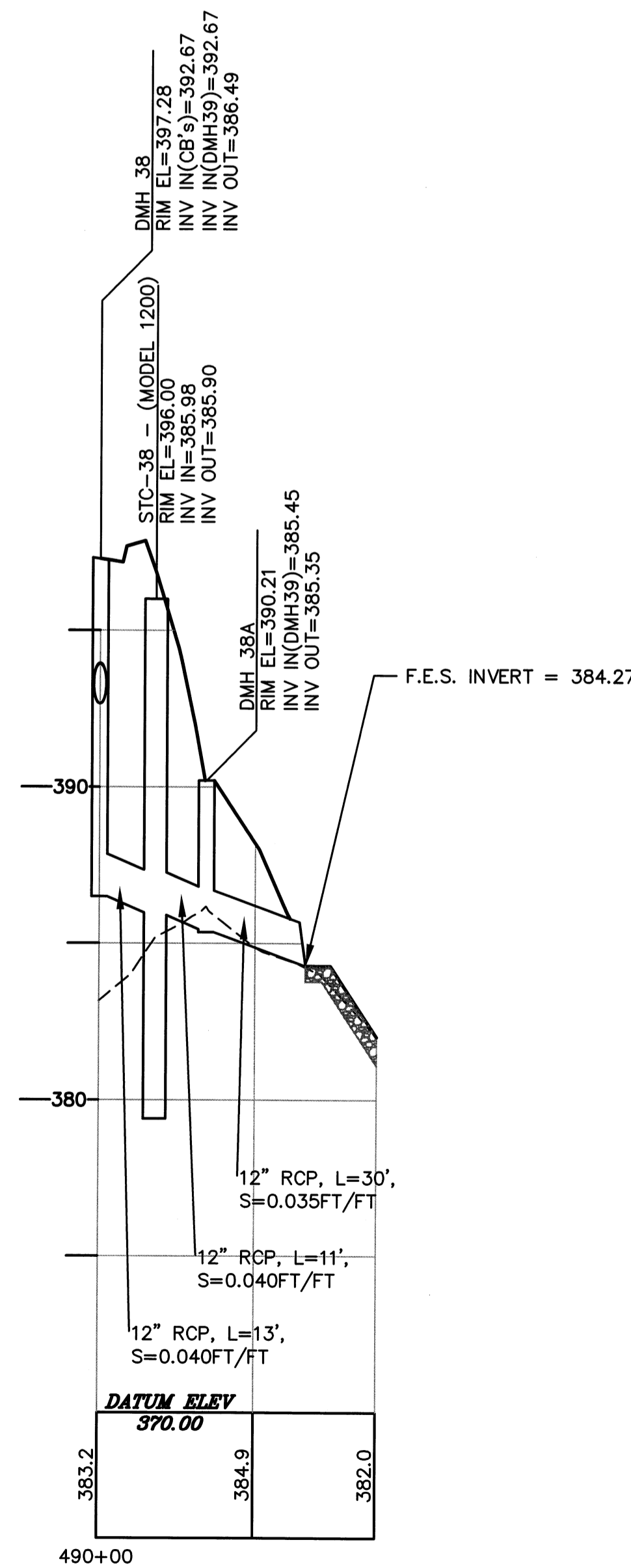
PLAN
SCALE: 1"=40'



DMH 49 TO POND 9B
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



PLAN
SCALE: 1"=40'



DMH38 TO WETLANDS
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

PROFILE LEGEND

--- EXISTING GROUND
— PROPOSED GROUND

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|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

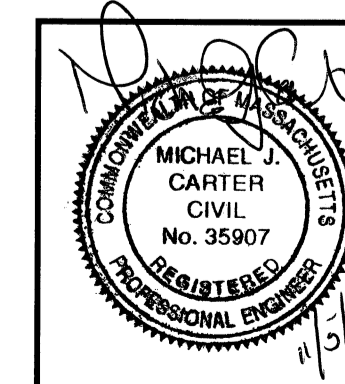
GCG ASSOCIATES, INC.

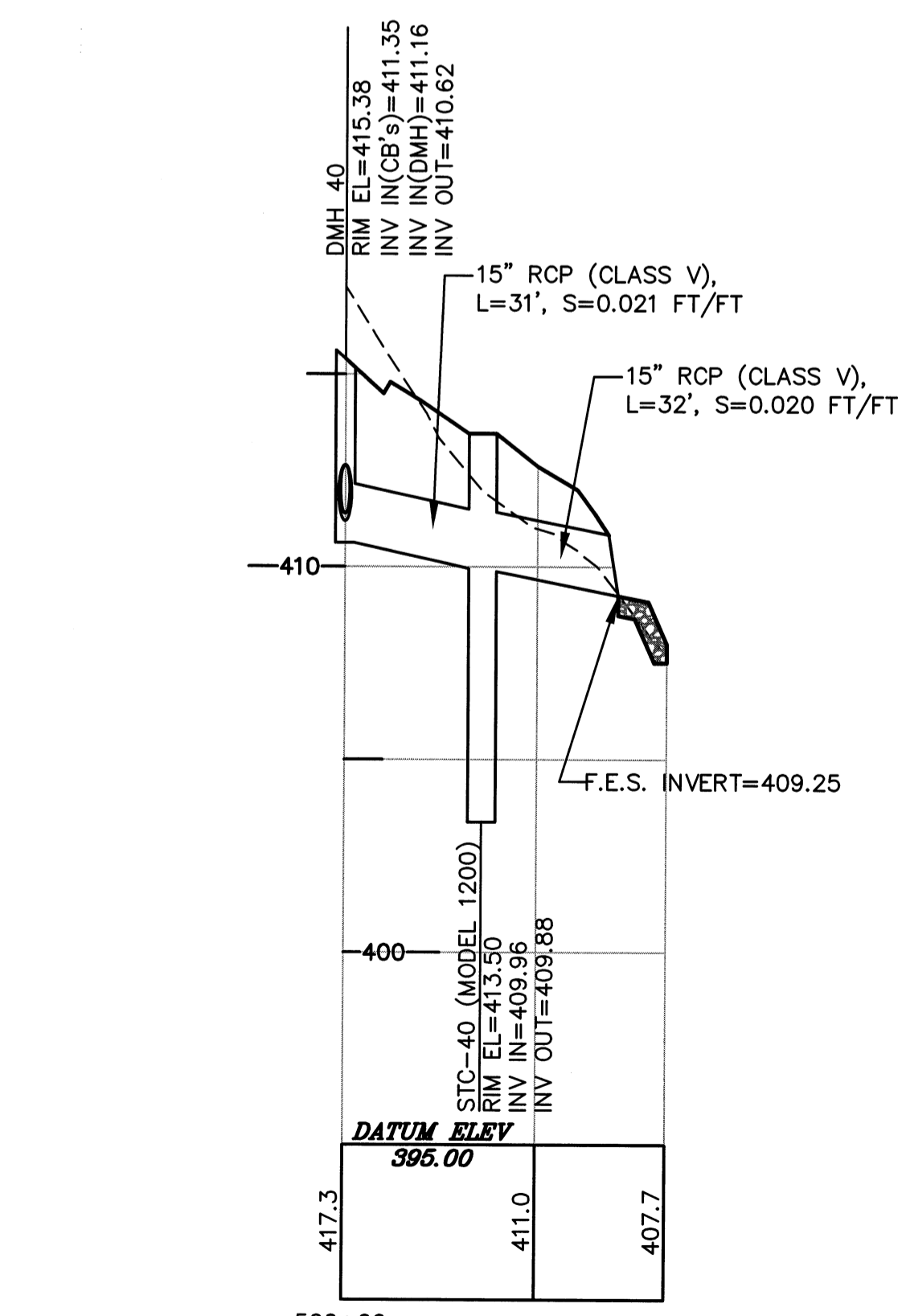
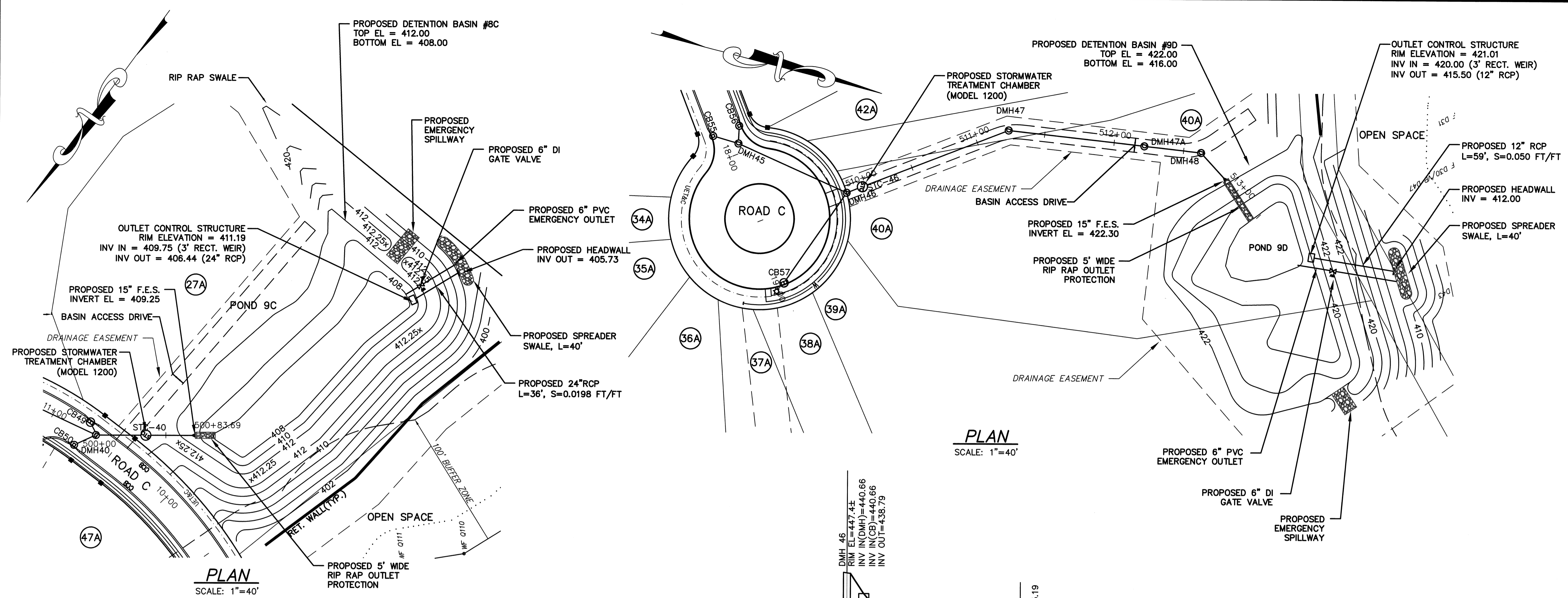
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

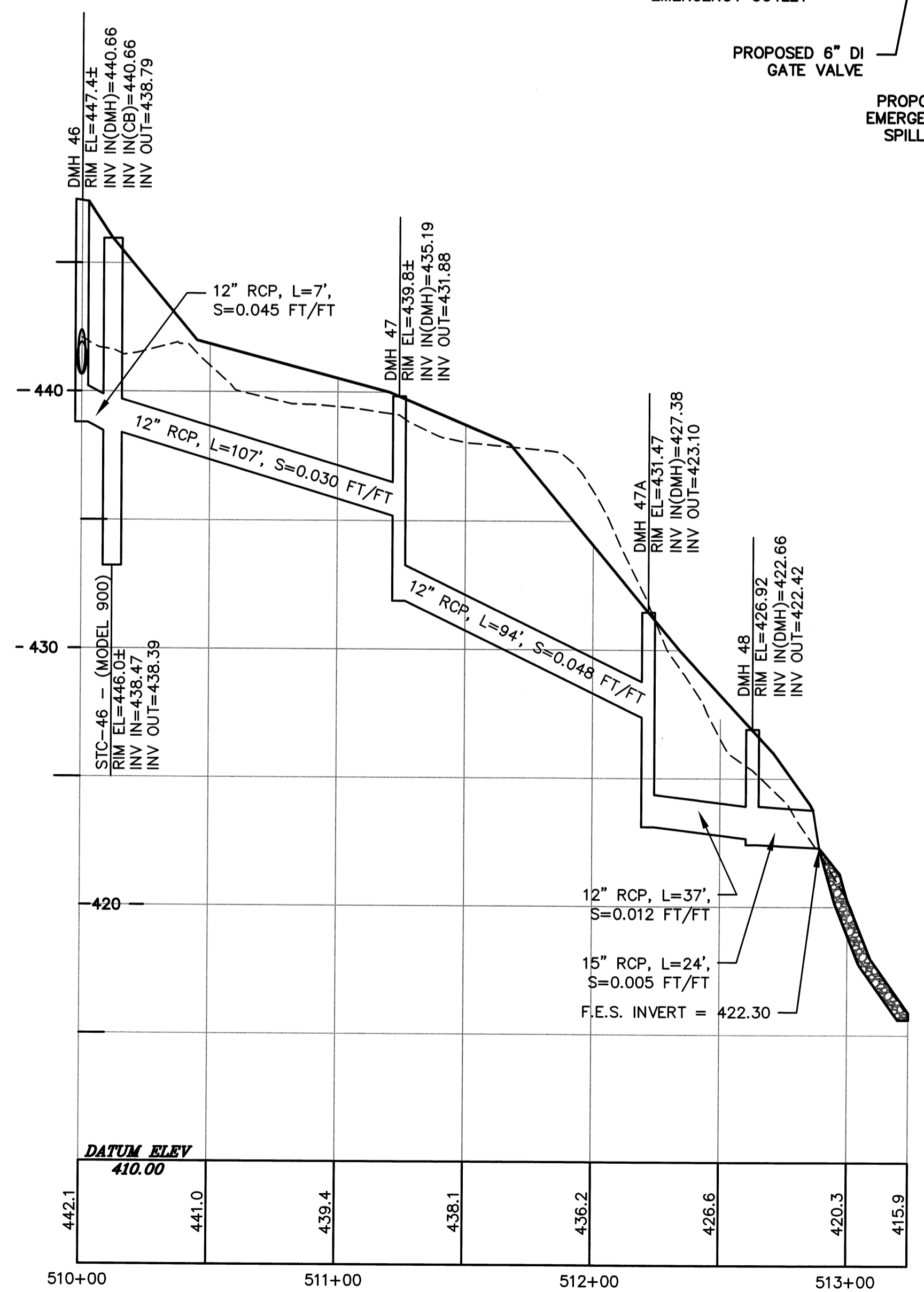
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD PROFILE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO.
29 OF 64





DMH 40 TO POND 9C
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)



DMH 46 TO POND 9D
SCALE: 1"=40' (HORIZ.) & 1"=4' (VERT.)

PROFILE LEGEND
 - - - - - EXISTING GROUND
 ——— PROPOSED GROUND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

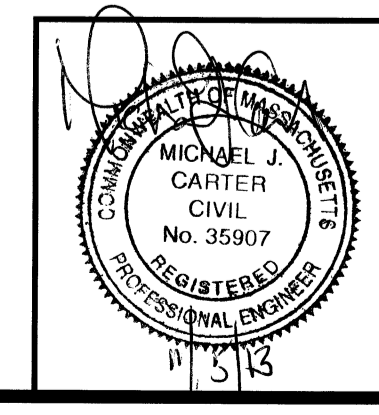
DEFINITIVE SUBDIVISION OF LAND IN BOLTON

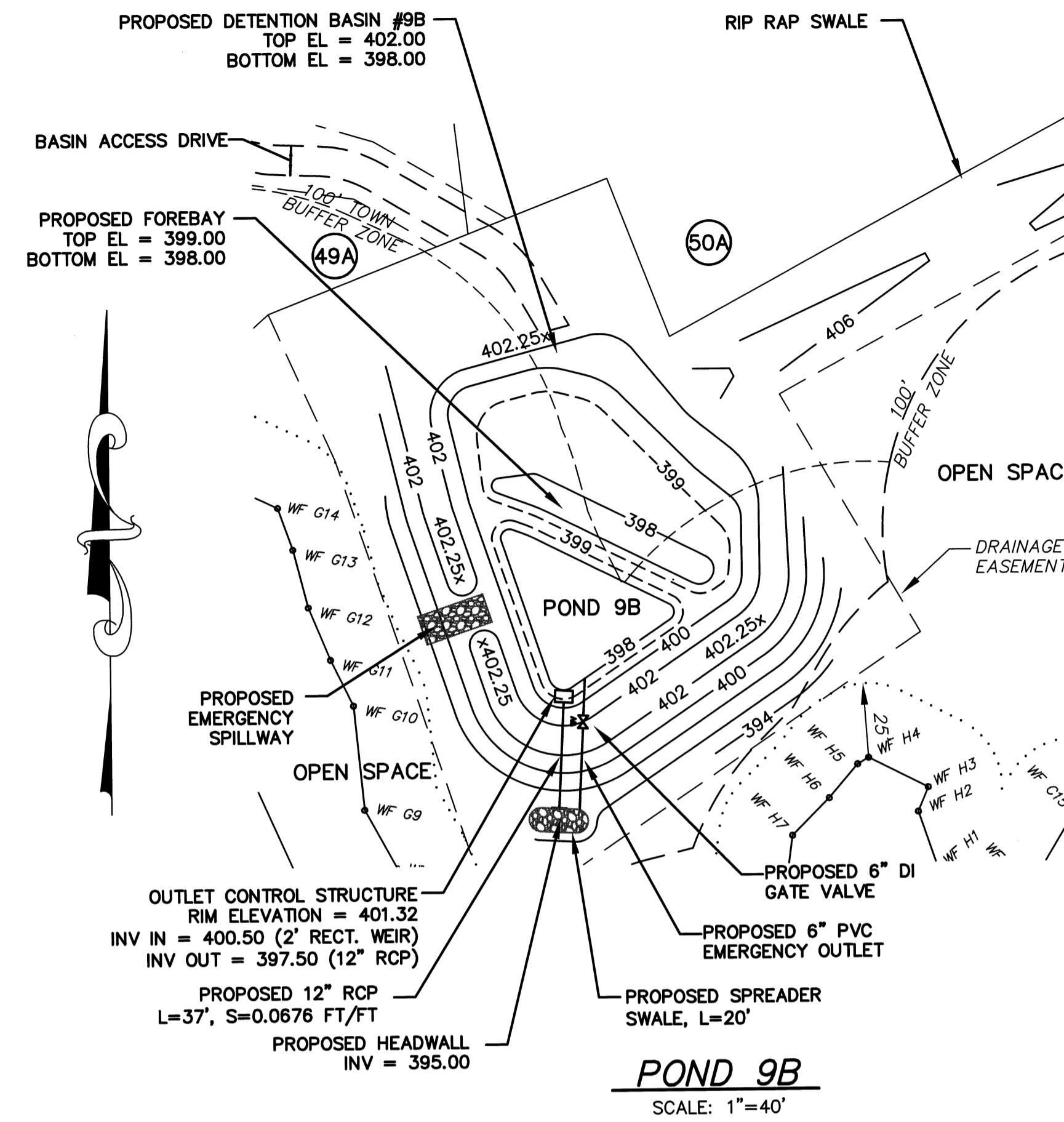
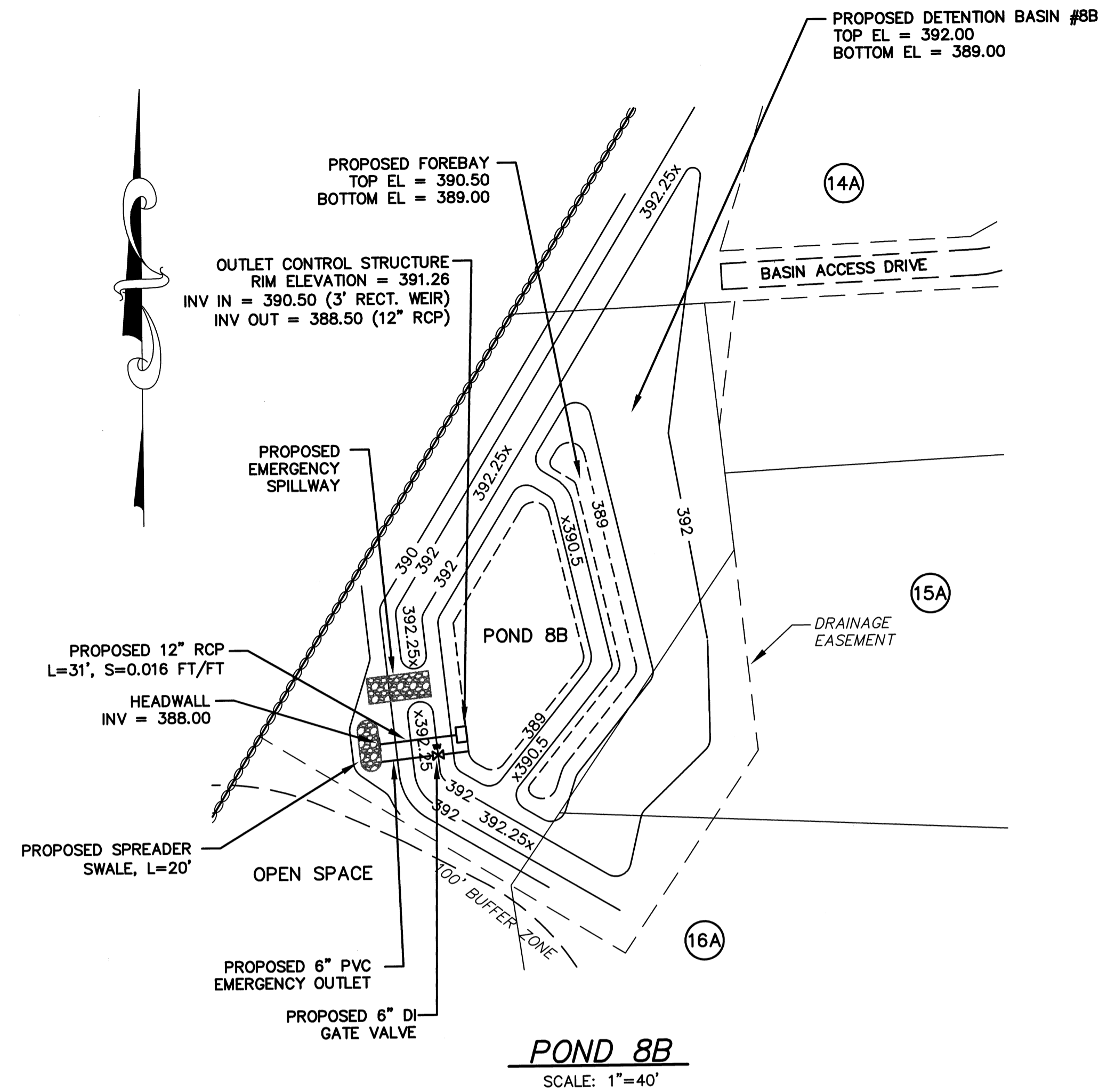
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

| | |
|---|---|
| SCALE: AS NOTED | DATE: JANUARY 26, 2007 |
| JOB NO. FILE NAME: 0213-DEF-LOT-MOD PROFILE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. |
| | PLAN NO. 30 OF 64 |





| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

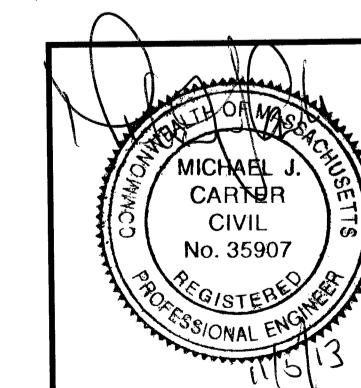
**CROSS COUNTRY DRAIN
PLAN AND PROFILE**

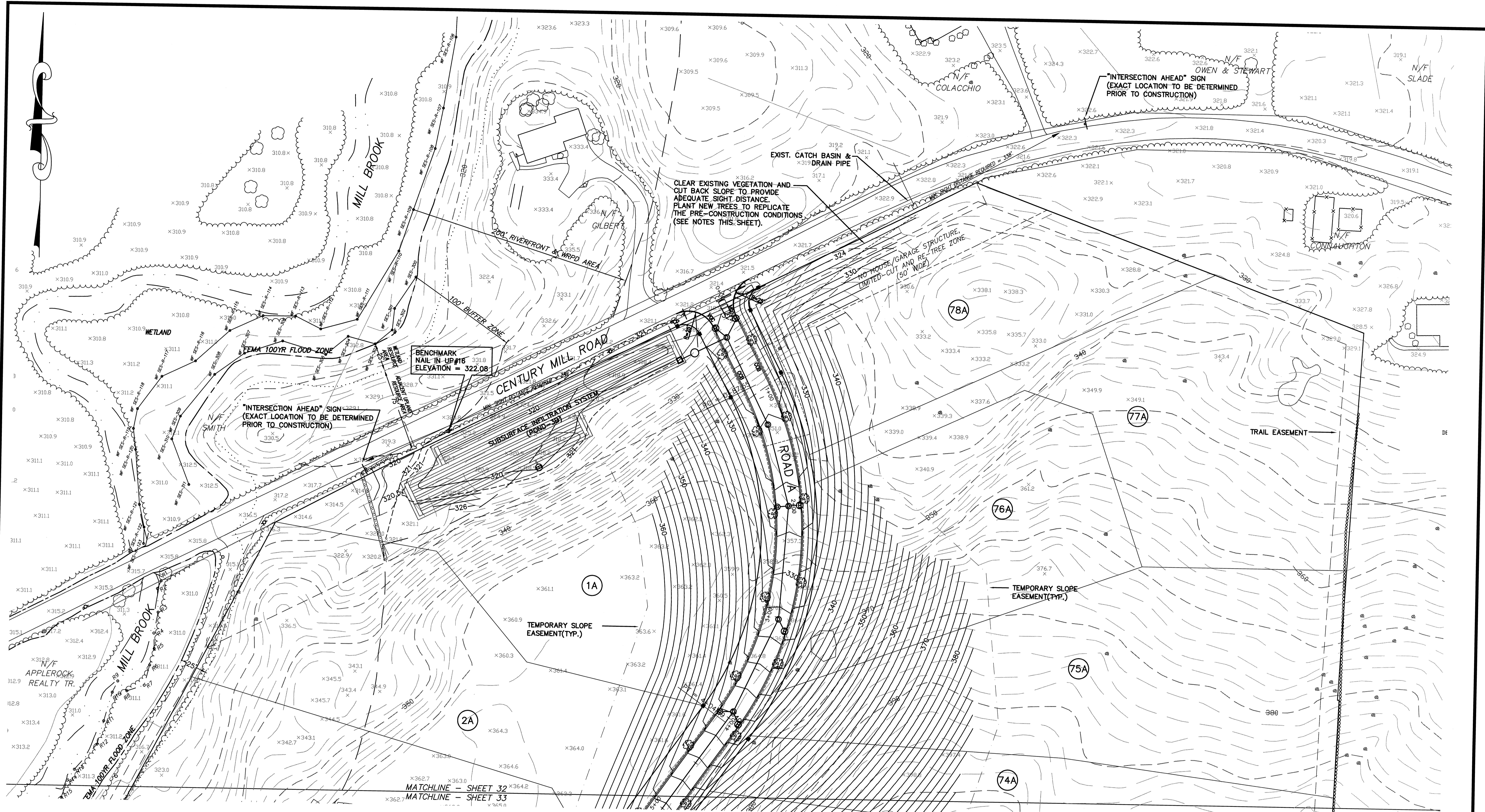
GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

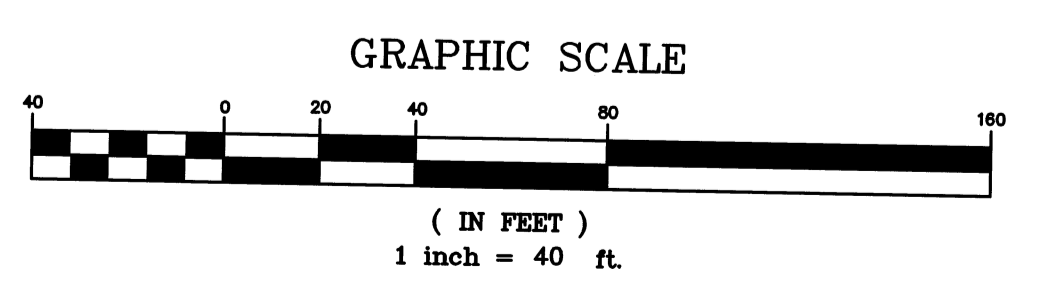
SCALE: AS NOTED DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ PROFILE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 31 of 64 |
|---|---|----------------------|

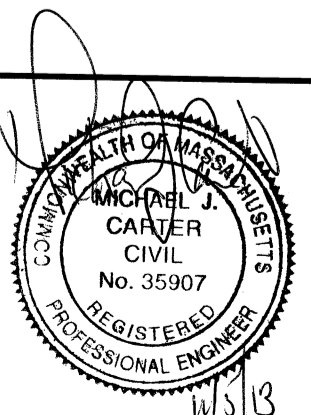




NOTE:
 1.) SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 2.) NEW TREES SHALL BE PLANTED ALONG CENTURY MILL ROAD IN THE AREA WHERE THE EXISTING GROUND NEEDS TO BE MODIFIED TO PROVIDE ADEQUATE SIGHT DISTANCE FROM THE NEW SUBDIVISION ROADWAY. THE NEW TREES SHALL BE PLANTED IN A MANNER THAT WILL REPLICATE THE NUMBER, SPACING, SPECIES, ETC. OF THE EXISTING TREES THAT WILL NEED TO BE REMOVED. THE NEW TREES SHALL NOT BE PLANTED IN A LOCATION THAT WILL INTERFERE WITH THE SIGHT LINE DISTANCE SHOWN ON THIS PLAN.



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



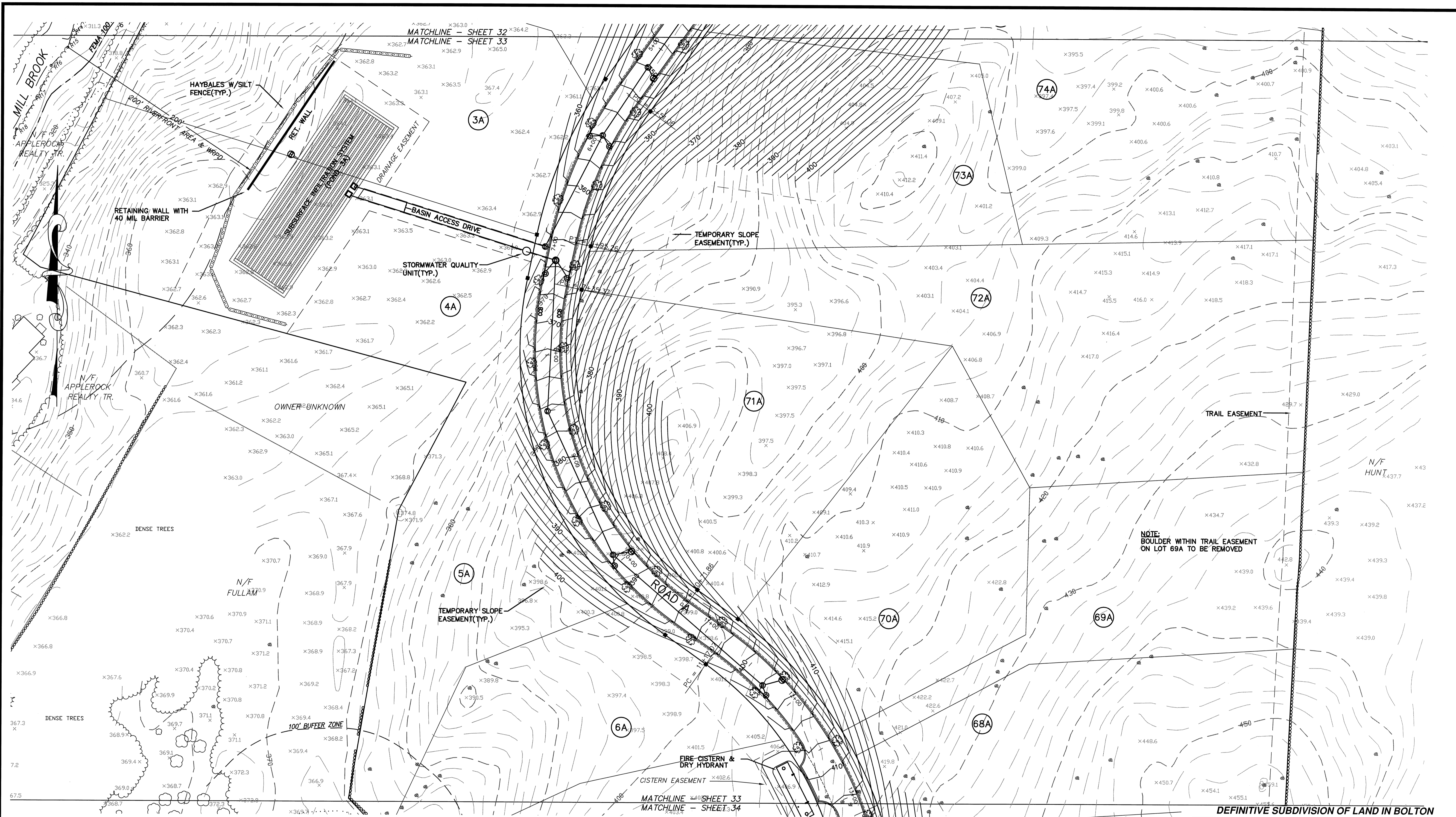
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 32 of 64 |
|---|---|----------------------|



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

TOPOGRAPHY AND GRADING PLAN

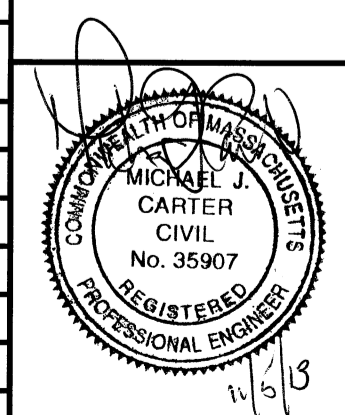
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

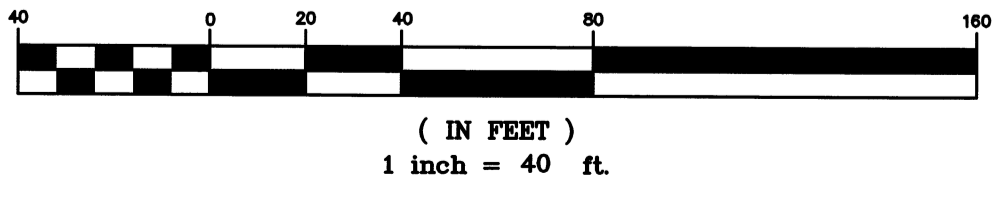
| | | |
|--|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 33 of 64 |
|--|---|----------------------|

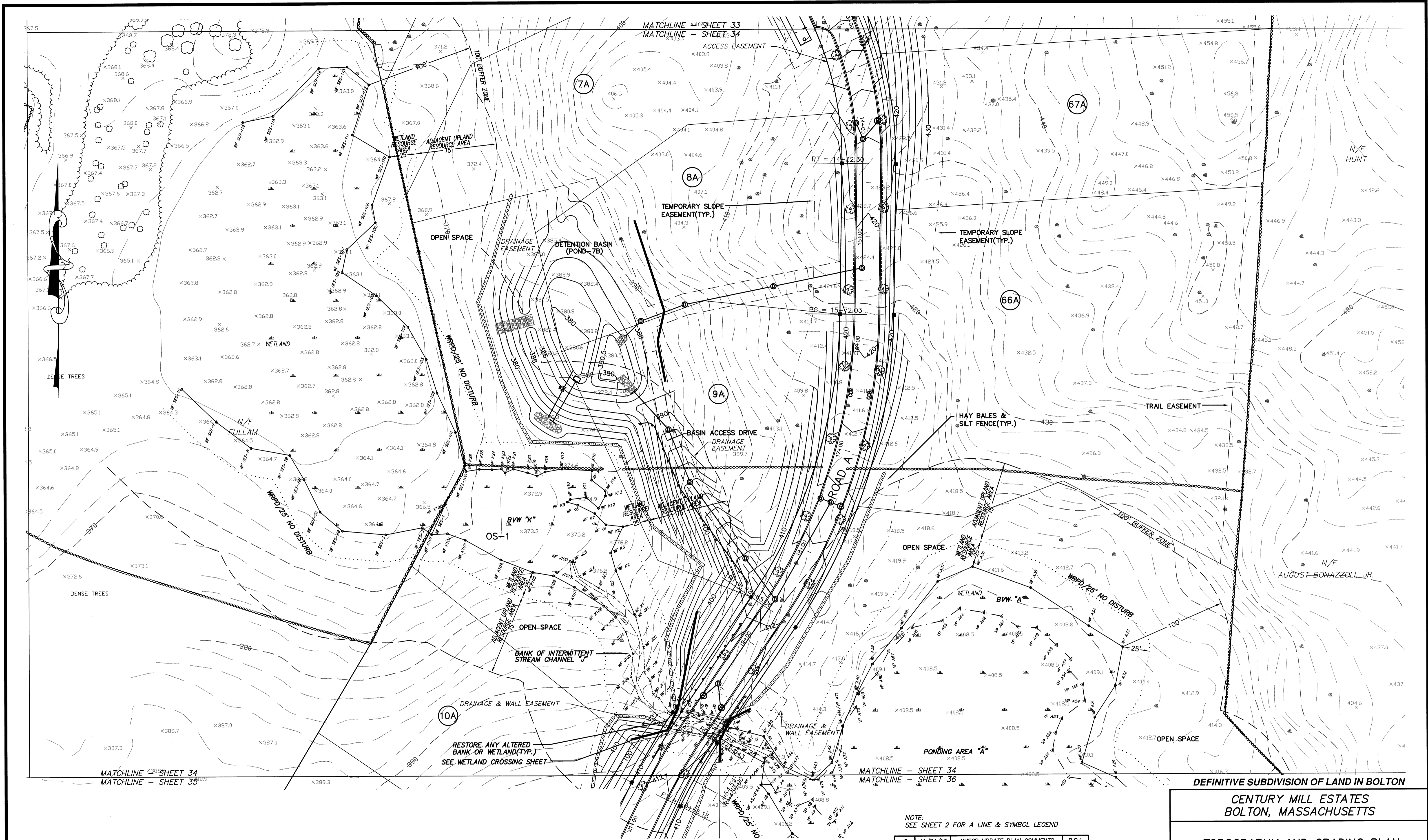
NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



GRAPHIC SCALE





MATCHLINE - SHEET 34
MATCHLINE - SHEET 35

MATCHLINE - SHEET 34
MATCHLINE - SHEET 36

DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

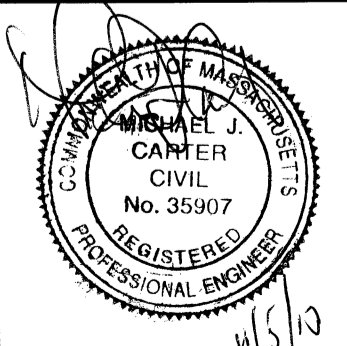
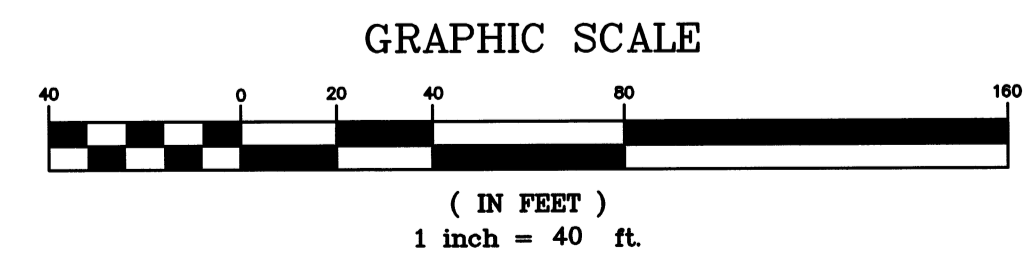
SCALE: 1" = 40' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD GRADE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO.
34 of 64

NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |

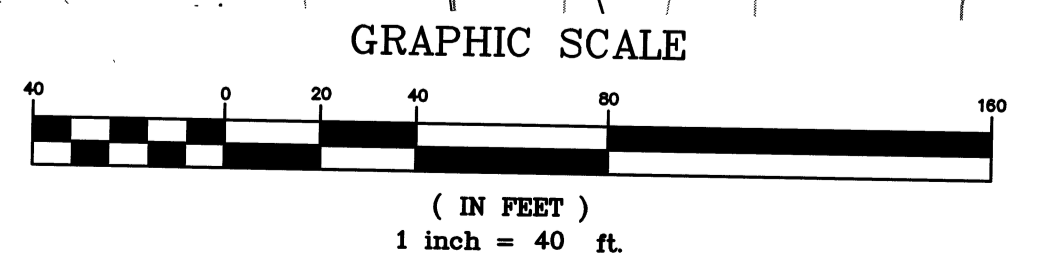
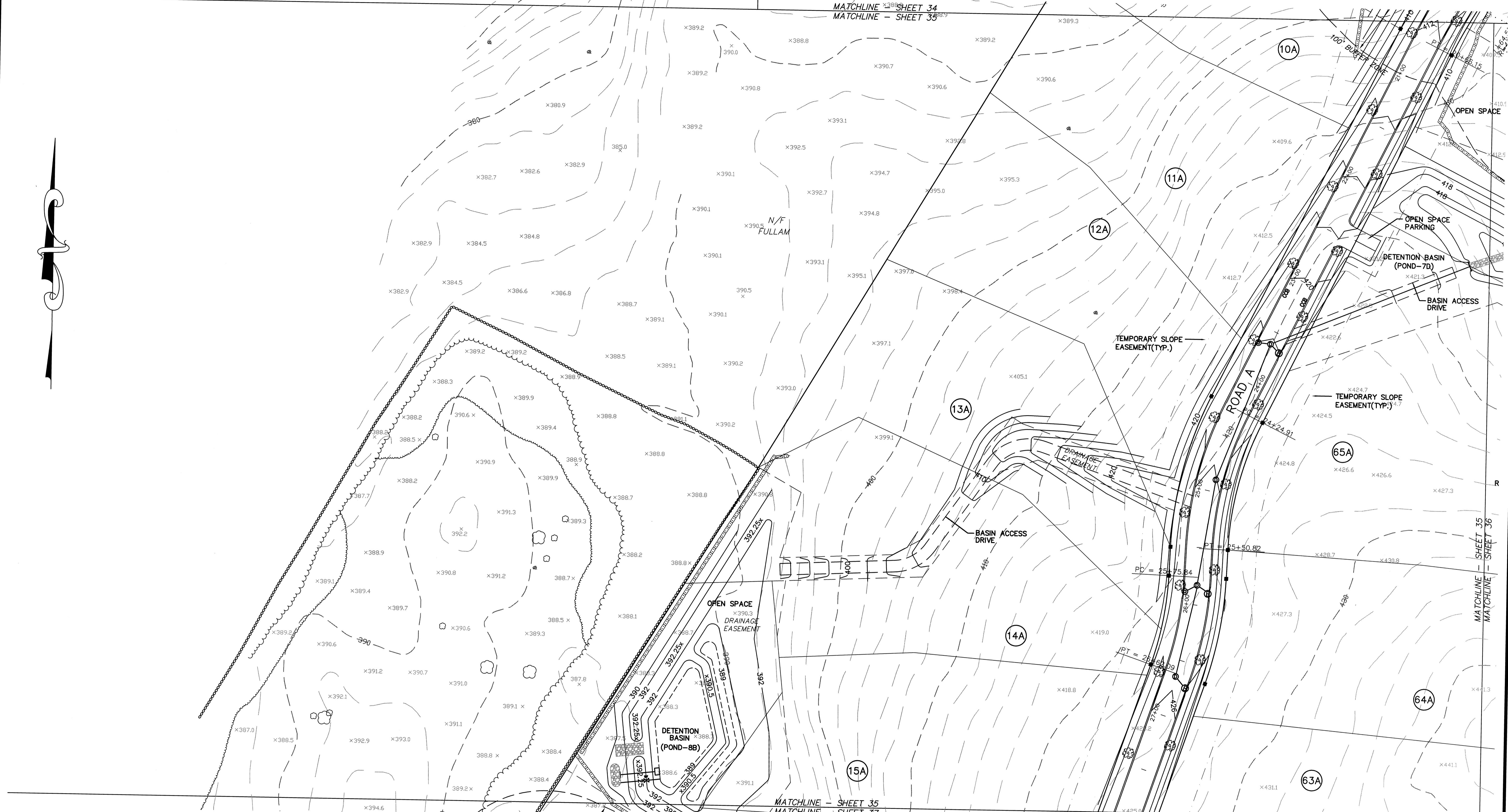




MATCHLINE - SHEET 34
MATCHLINE - SHEET 35

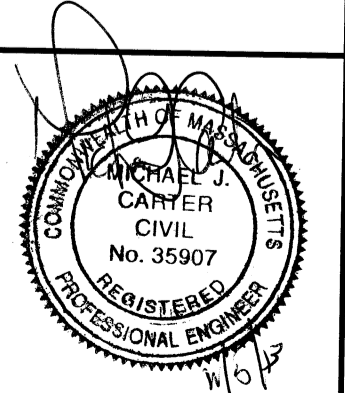
MATCHLINE - SHEET 35
MATCHLINE - SHEET 37

MATCHLINE - SHEET 35
MATCHLINE - SHEET 36



NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
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| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



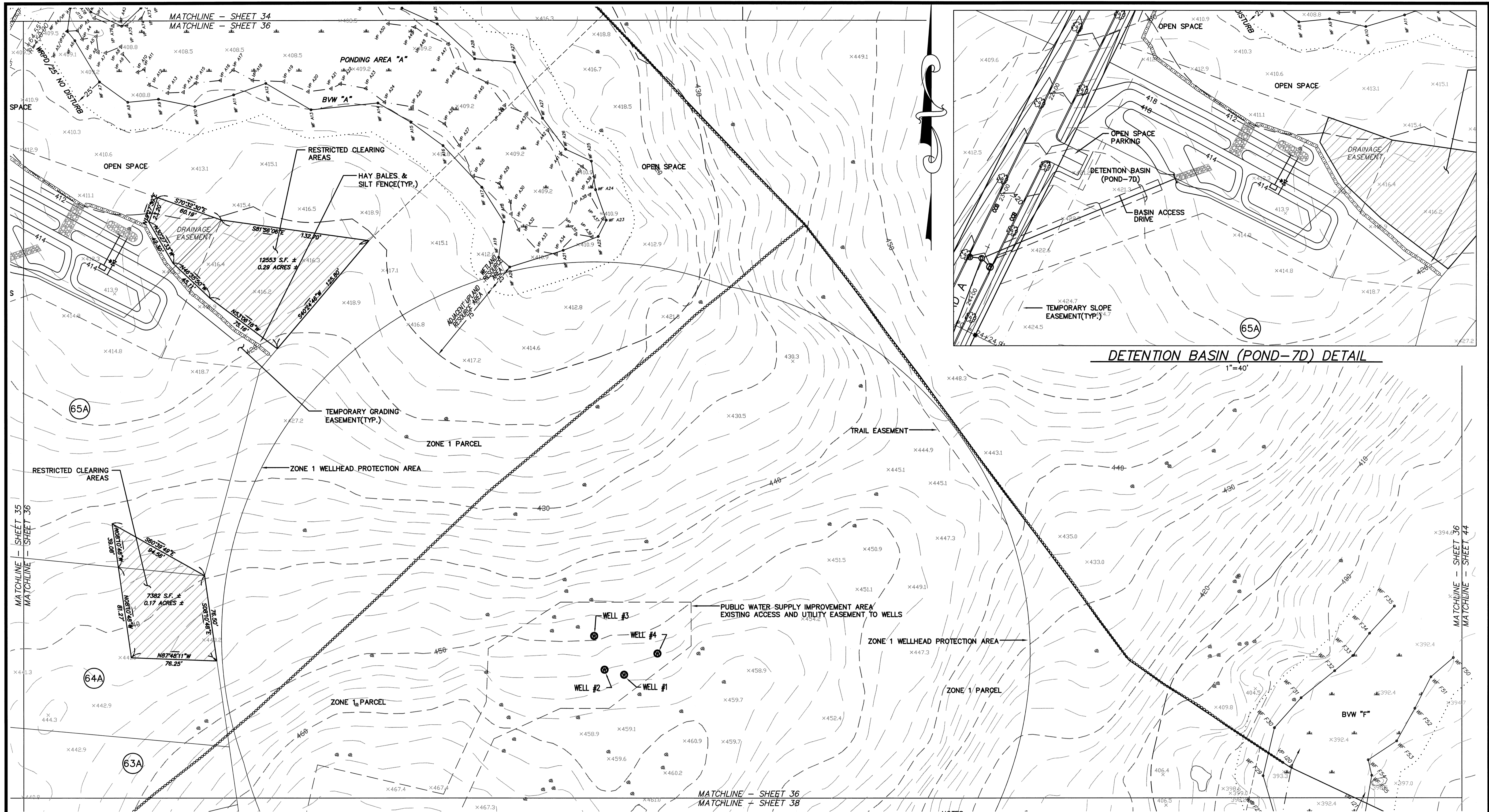
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

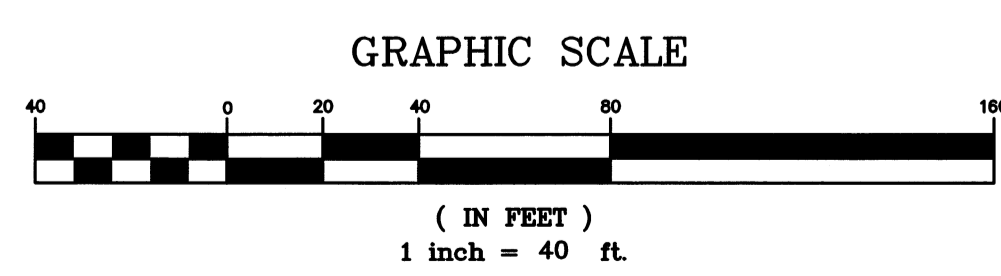
SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG DESIGNED BY: J.R.D. PLAN NO. 35 of 64
DRAWN BY: J.R.D. CHECKED BY: M.J.C.



NOTES:
 1.) SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 2.) A TEMPORARY GRADING EASEMENT SHALL BE PROVIDED ON LOT 60 AS SHOWN. THIS TEMPORARY EASEMENT SHALL REMAIN IN PLACE UNTIL DETENTION POND 7D AND THE ASSOCIATED DRAINAGE AREA ON LOT 60 HAS BEEN CONSTRUCTED TO THE GRADES SHOWN ON THESE TOPOGRAPHY AND GRADING PLANS.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

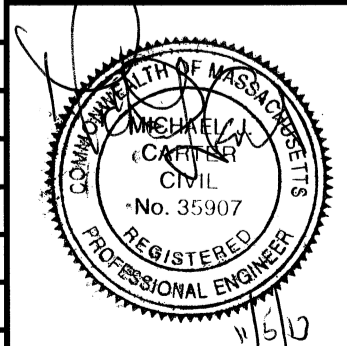
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

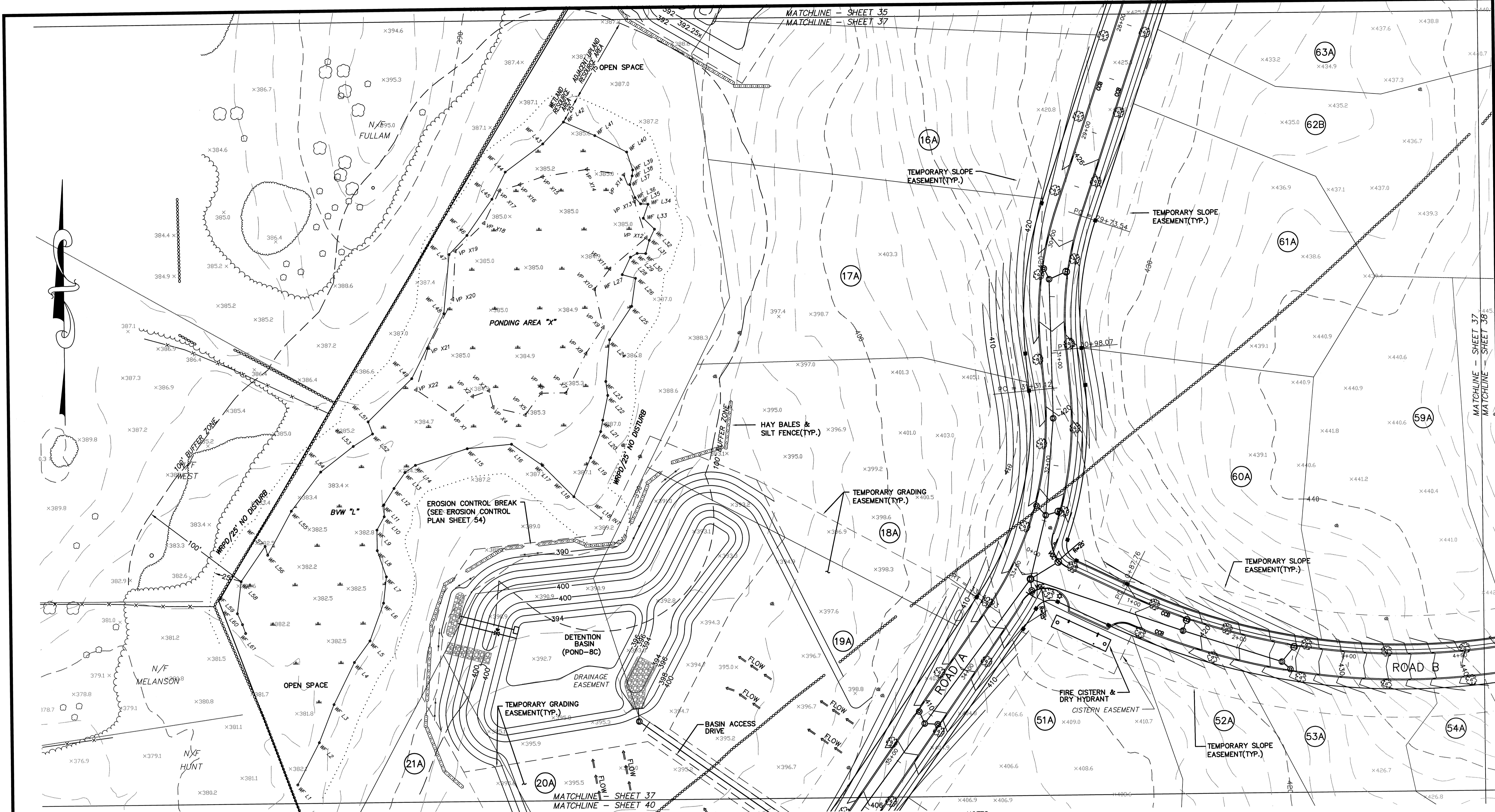
TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

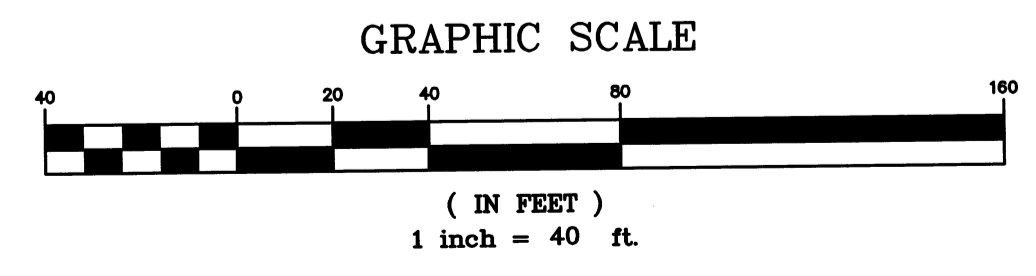
SCALE: 1"=40' DATE: JANUARY 26, 2007

| | | |
|----------------------|---------------------|----------|
| JOB NO. \ FILE NAME: | DESIGNED BY: J.R.D. | PLAN NO. |
| 0213-DEF-LOT-MOD | DRAWN BY: J.R.D. | 36 OF 64 |
| GRADE.DWG | CHECKED BY: M.J.C. | |





NOTES:
 1.) SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 2.) TEMPORARY GRADING EASEMENTS SHALL BE PROVIDED ON LOTS 18-21 AS SHOWN. THESE TEMPORARY EASEMENTS SHALL REMAIN IN PLACE UNTIL DETENTION POND BC AND THE ASSOCIATED DRAINAGE AREA ON LOTS 18-21 HAVE BEEN CONSTRUCTED TO THE GRADES SHOWN ON THESE TOPOGRAPHY AND GRADING PLANS.



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
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| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

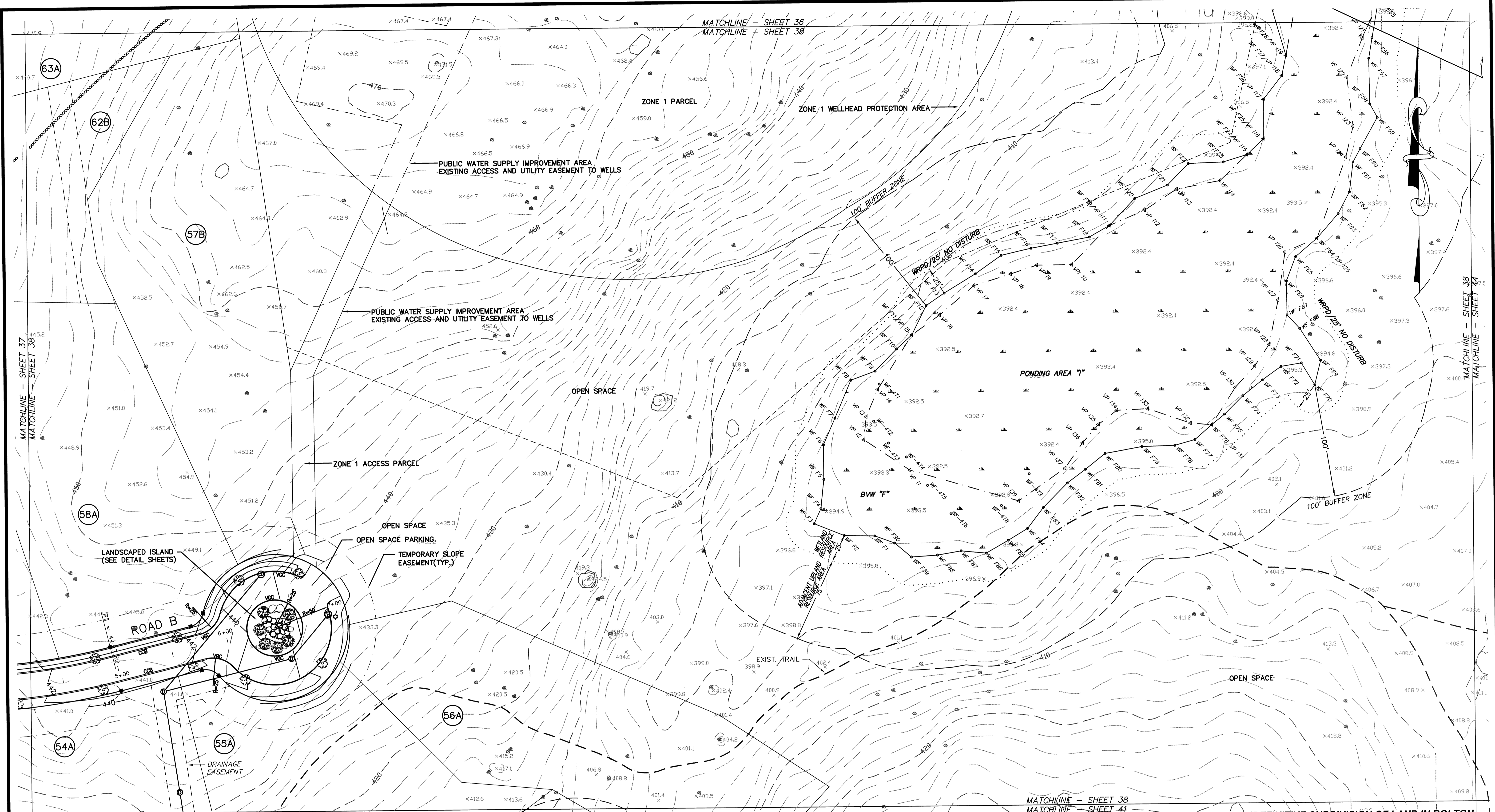
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 37 OF 64 |
|---|---|----------------------|



MATCHLINE - SHEET 37
MATCHLINE - SHEET 36

MATCHLINE - SHEET 38
MATCHLINE - SHEET 41

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

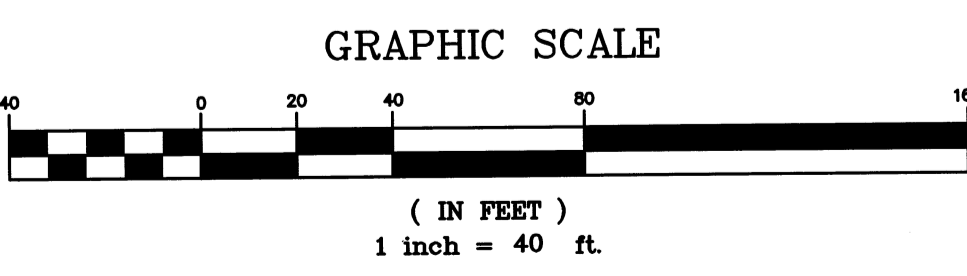
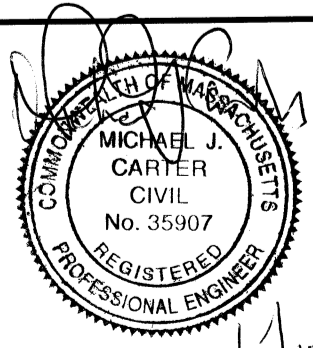
SCALE: 1"=40' DATE: JANUARY 26, 2007

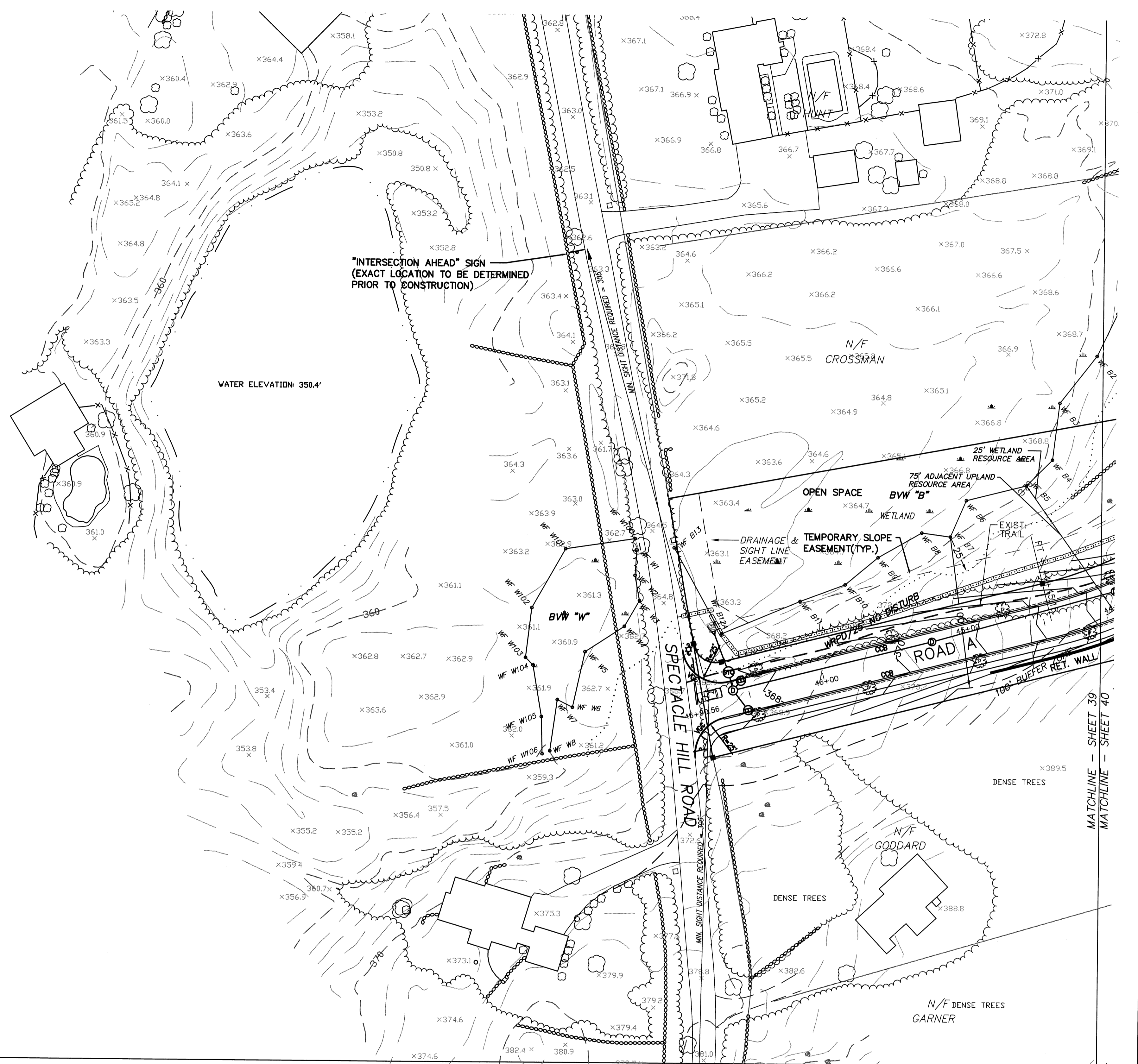
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO.
38 of 64

NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

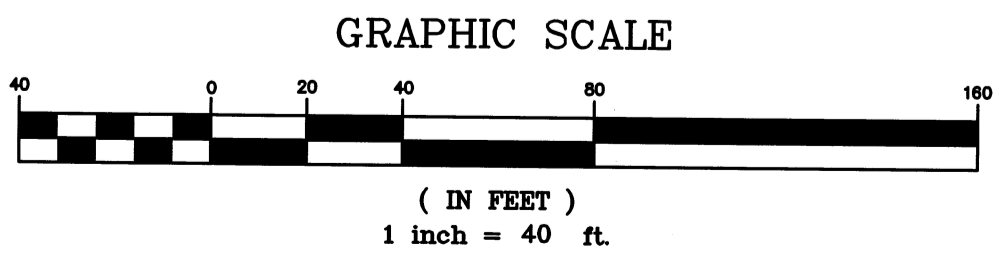
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



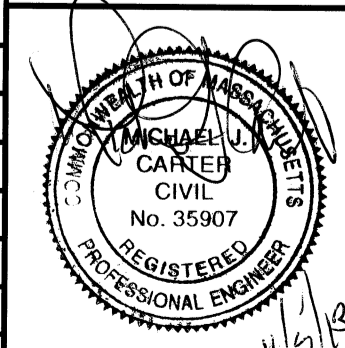


NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

"INTERSECTION AHEAD" SIGN
(EXACT LOCATION TO BE DETERMINED
PRIOR TO CONSTRUCTION)



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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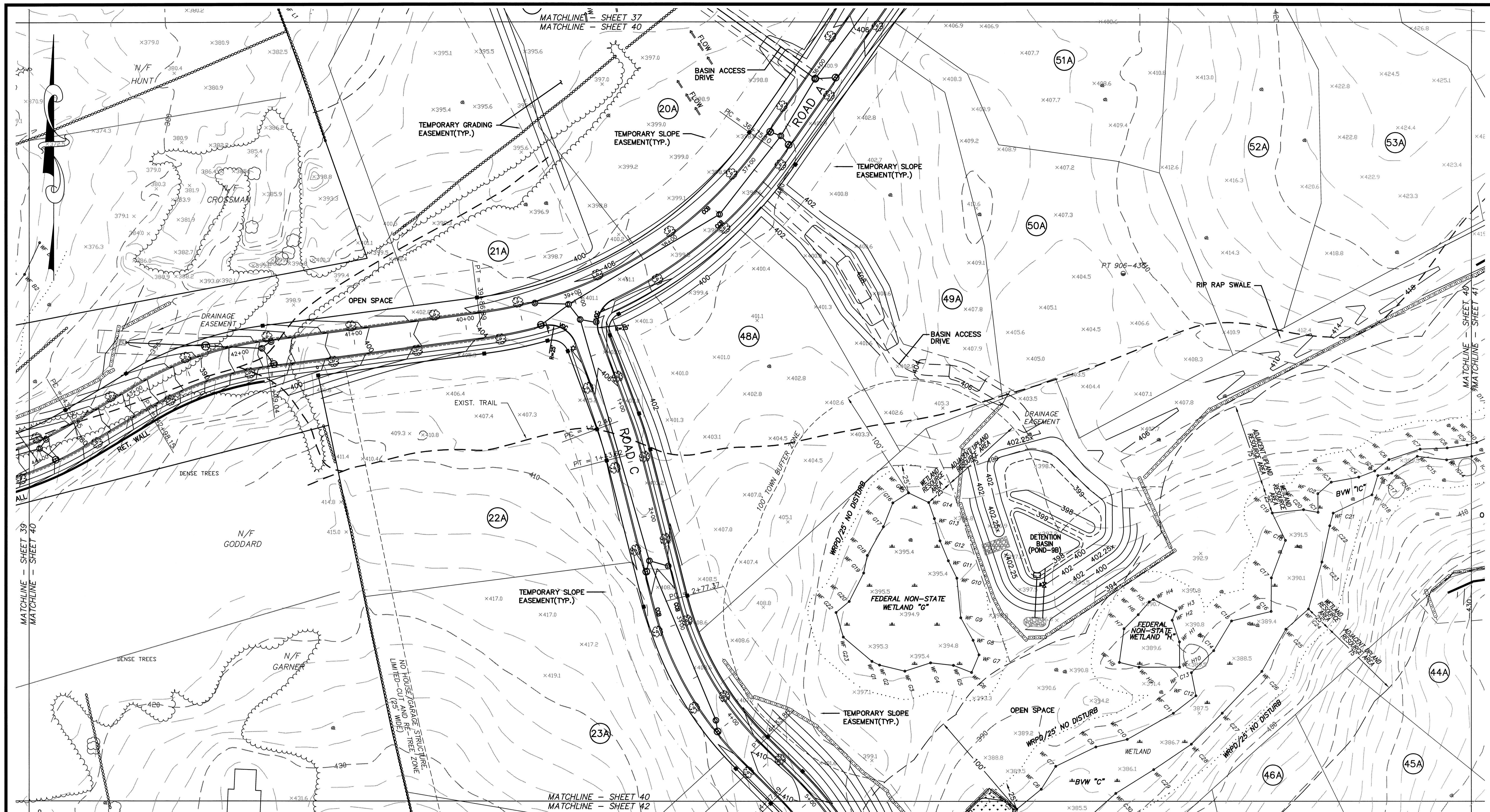
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

TOPOGRAPHY AND GRADING PLAN

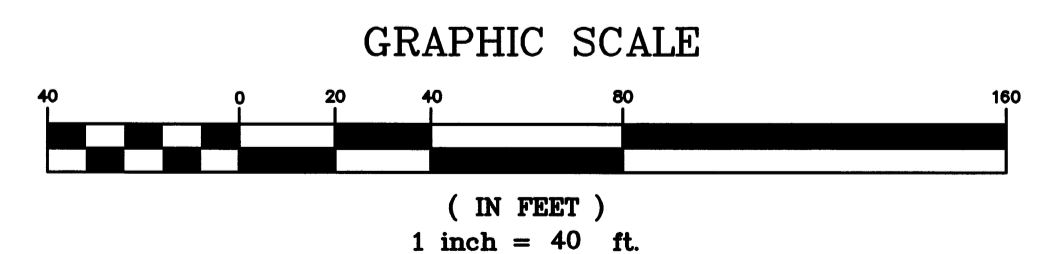
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 39 OF 64

MATCHLINE - SHEET 39
MATCHLINE - SHEET 40



NOTES:
 1.) SEE SHEET 2 FOR A LINE & SYMBOL LEGEND
 2.) TEMPORARY GRADING EASEMENTS SHALL BE PROVIDED ON LOTS 18-21 AS SHOWN. THESE TEMPORARY EASEMENTS SHALL REMAIN IN PLACE UNTIL DETENTION POND 9B AND THE ASSOCIATED DRAINAGE AREA ON LOTS 18-21 HAVE BEEN CONSTRUCTED TO THE GRADES SHOWN ON THESE TOPOGRAPHY AND GRADING PLANS.



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS**

TOPOGRAPHY AND GRADING PLAN

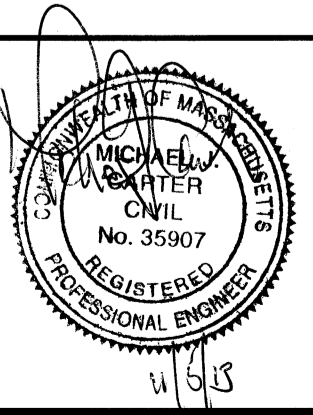
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

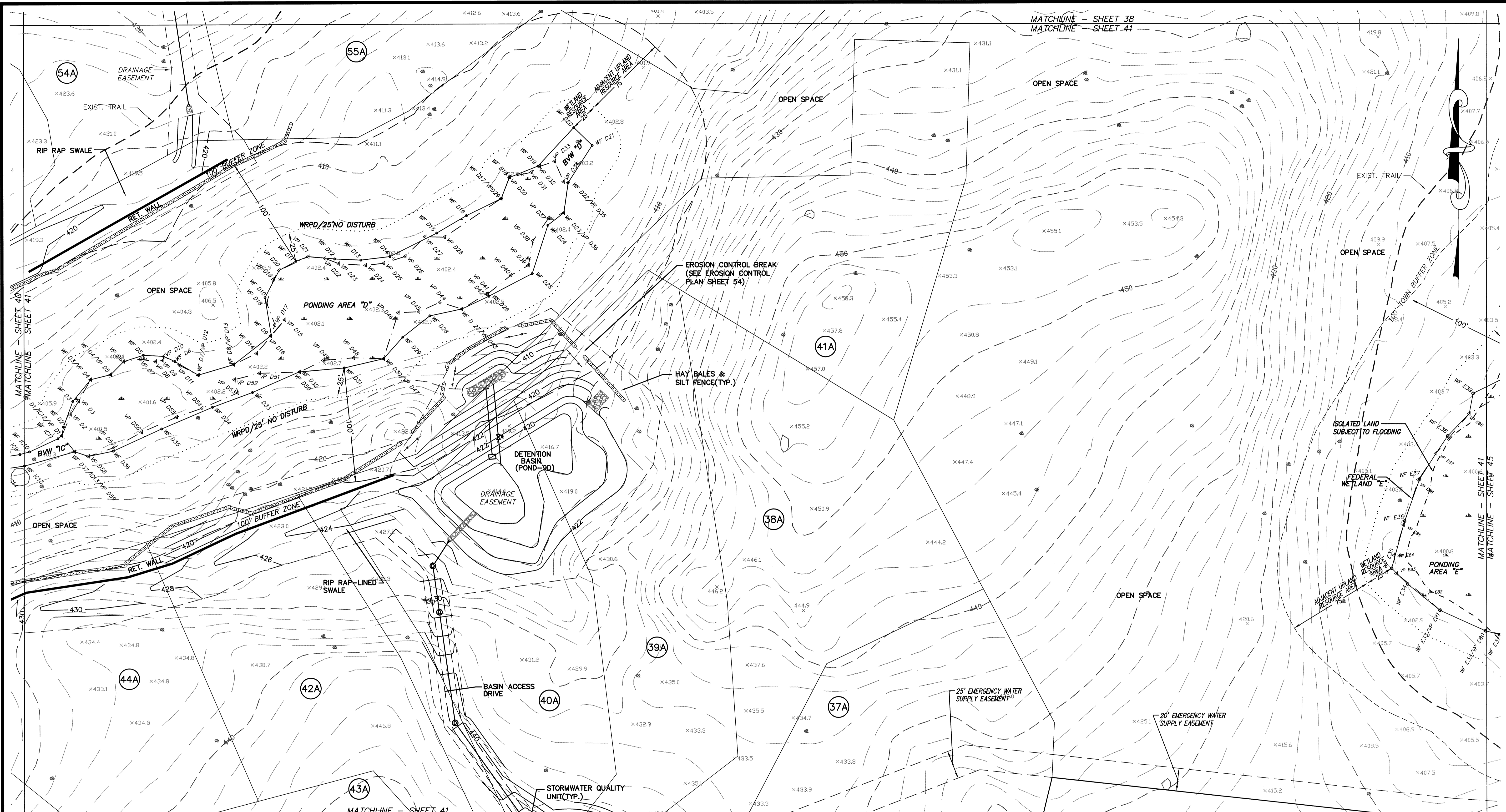
SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

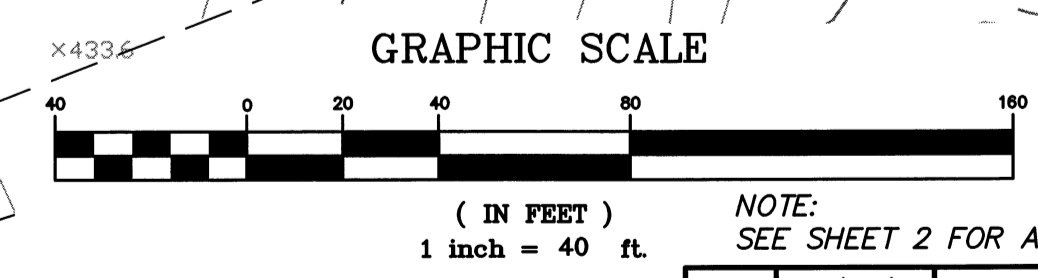
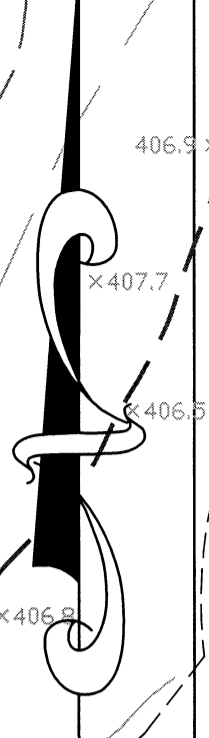
PLAN NO.
 40 of 64

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



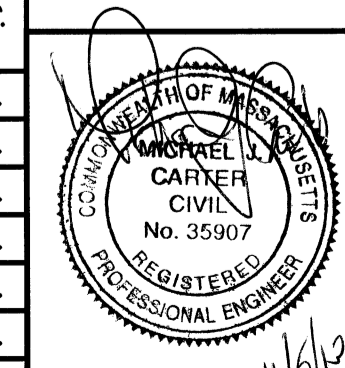


MATCHLINE - SHEET 38
 MATCHLINE - SHEET 41



NOTE:
 SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

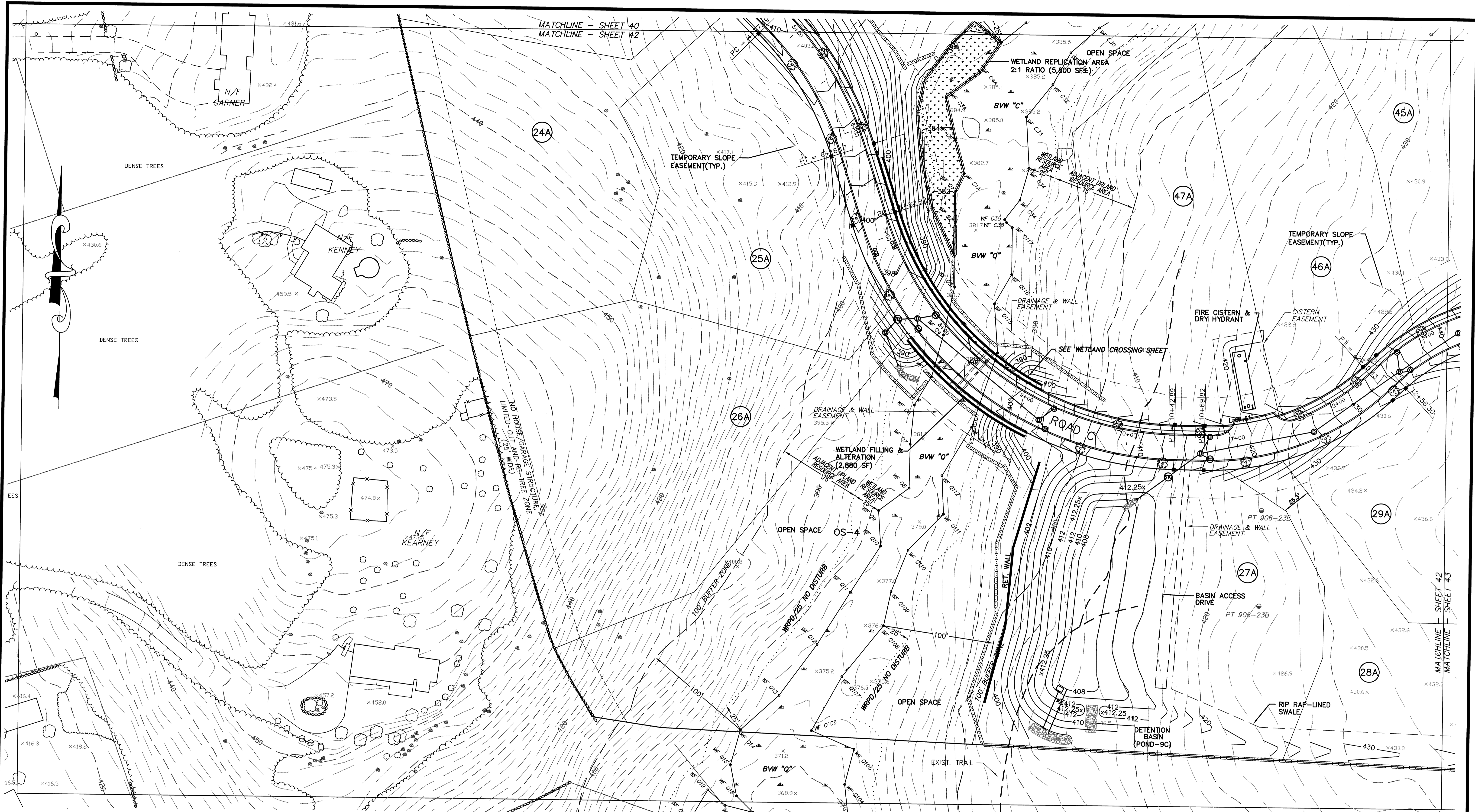
TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

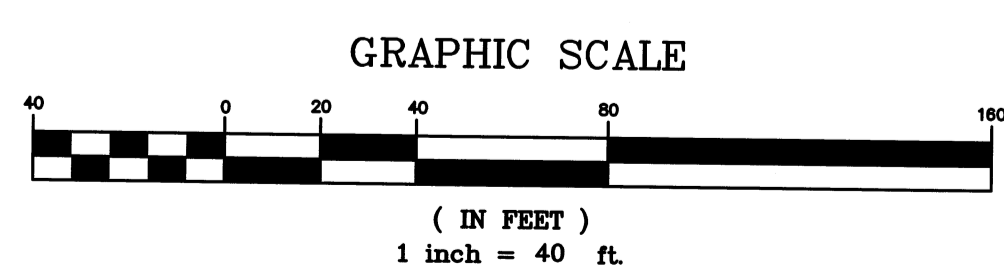
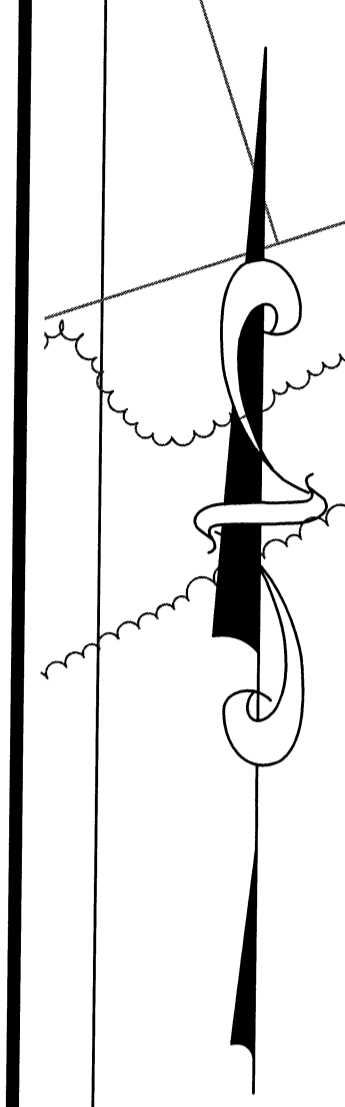
SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD- GRADE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

PLAN NO. 41 OF 64

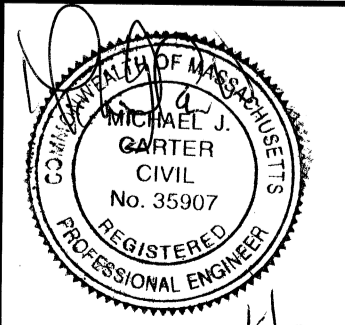


MATCHLINE - SHEET 40
MATCHLINE - SHEET 42



NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

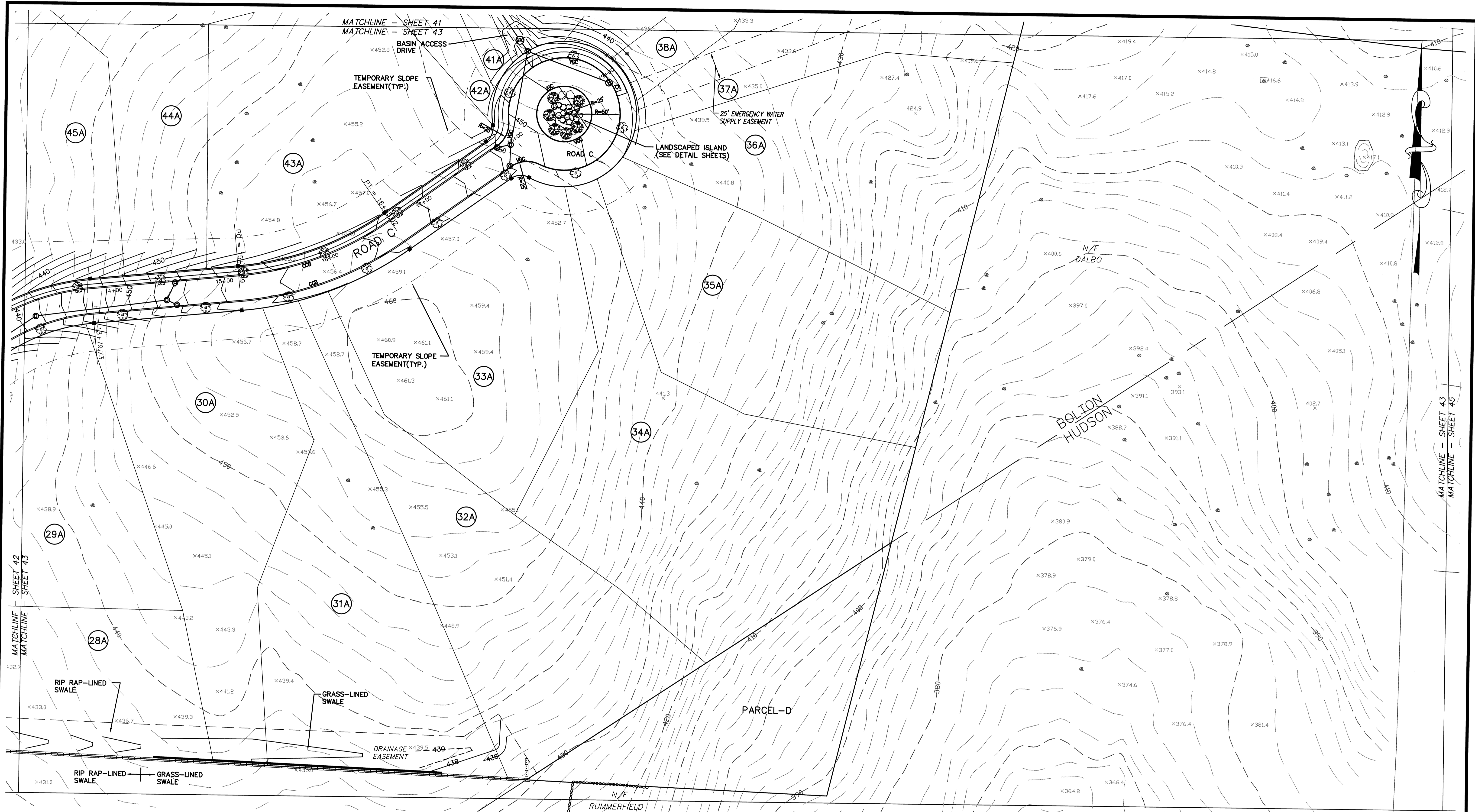
TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD GRADE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 42 OF 64

MATCHLINE SHEET 42 SHEET 43



MATCHLINE - SHEET 42
MATCHLINE - SHEET 43

MATCHLINE - SHEET 43
MATCHLINE - SHEET 45

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

TOPOGRAPHY AND GRADING PLAN

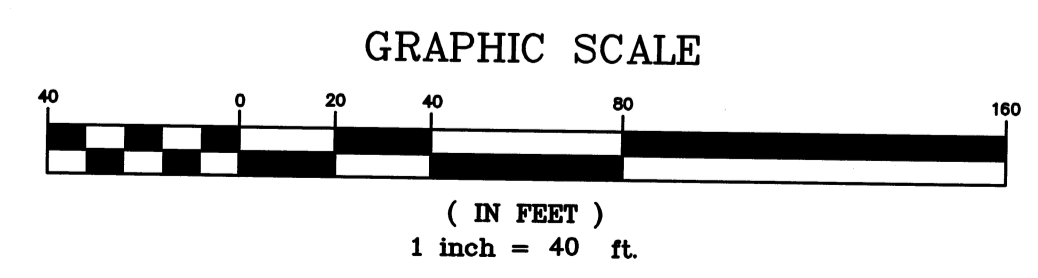
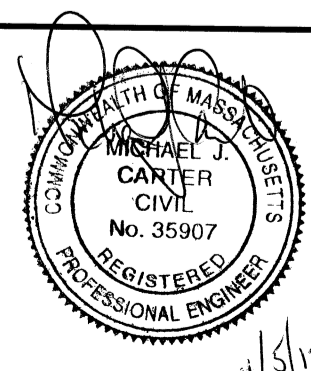
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\GRADE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 43 of 64 |
|---|---|----------------------|

NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/20/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 6 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 5 | 7/21/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 4 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
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| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |

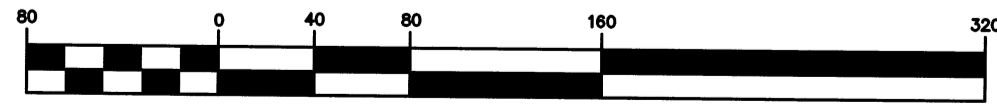


MATCHLINE - SHEET 36
MATCHLINE - SHEET 44



MATCHLINE - SHEET 44
MATCHLINE - SHEET 45

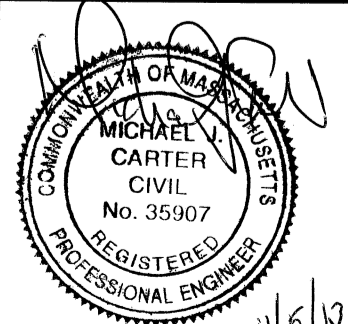
GRAPHIC SCALE



(IN FEET)
1 inch = 80 ft.

NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

TOPOGRAPHY AND GRADING PLAN

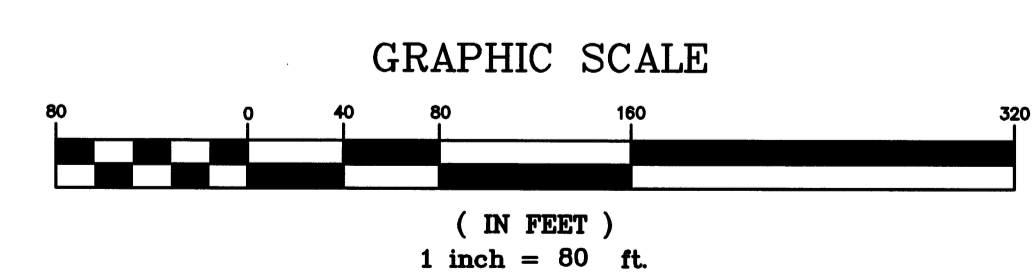
GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

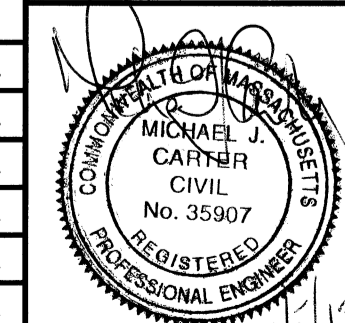
JOB NO./FILE NAME: 0213-DEF-LOT-MOD/ GRADE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: L.J.W.

PLAN NO.
44 of 64



NOTE:
SEE SHEET 2 FOR A LINE & SYMBOL LEGEND

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
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| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

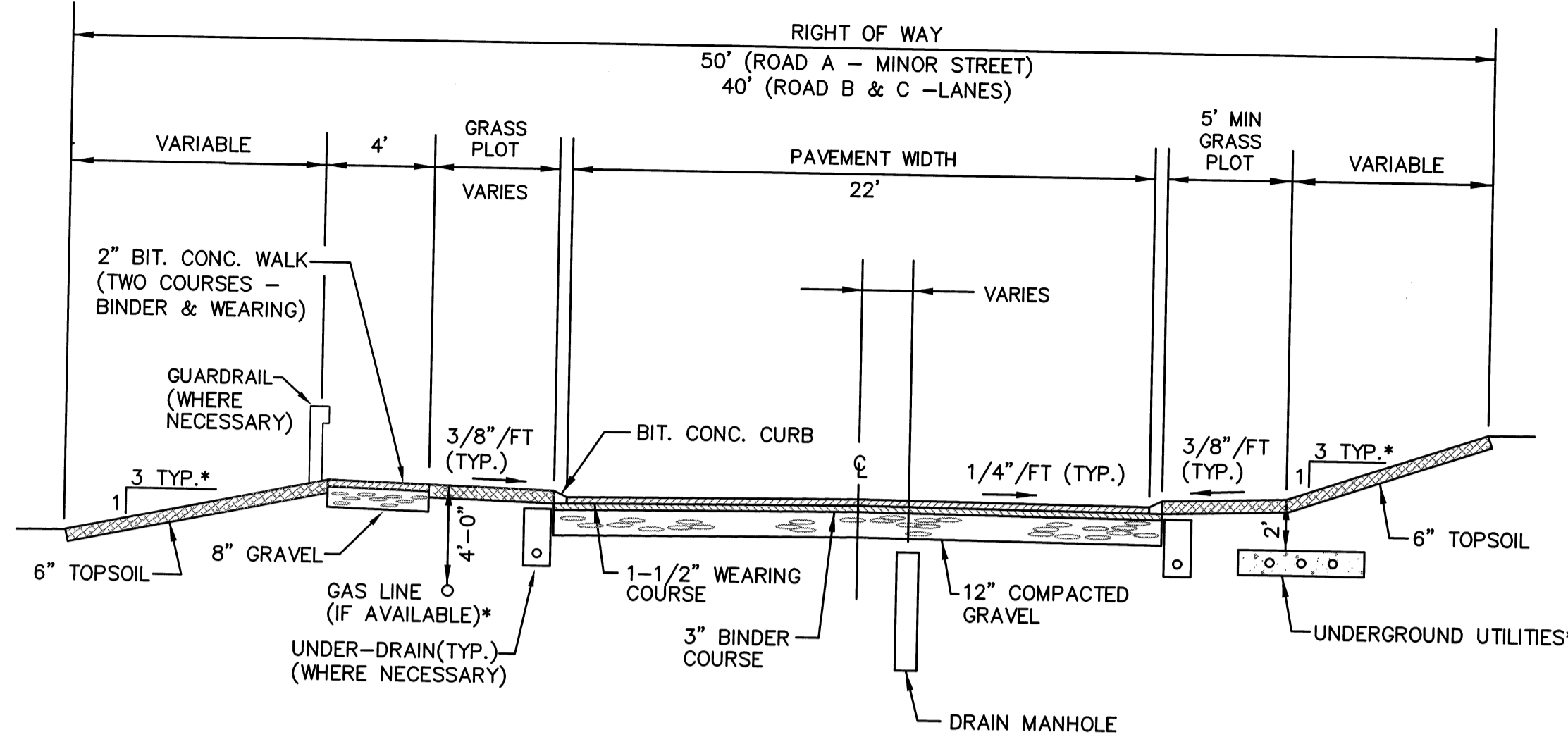
TOPOGRAPHY AND GRADING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=40' DATE: JANUARY 26, 2007

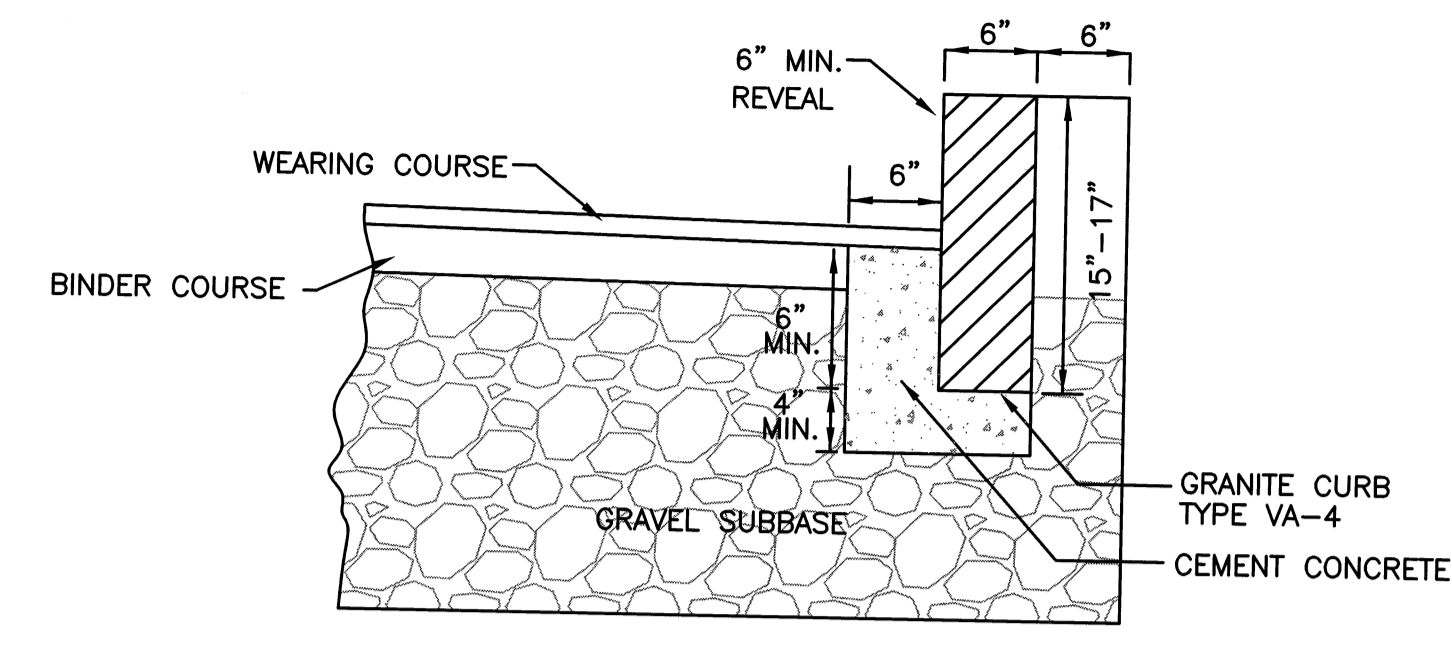
JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ GRADE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO.
45 of 64

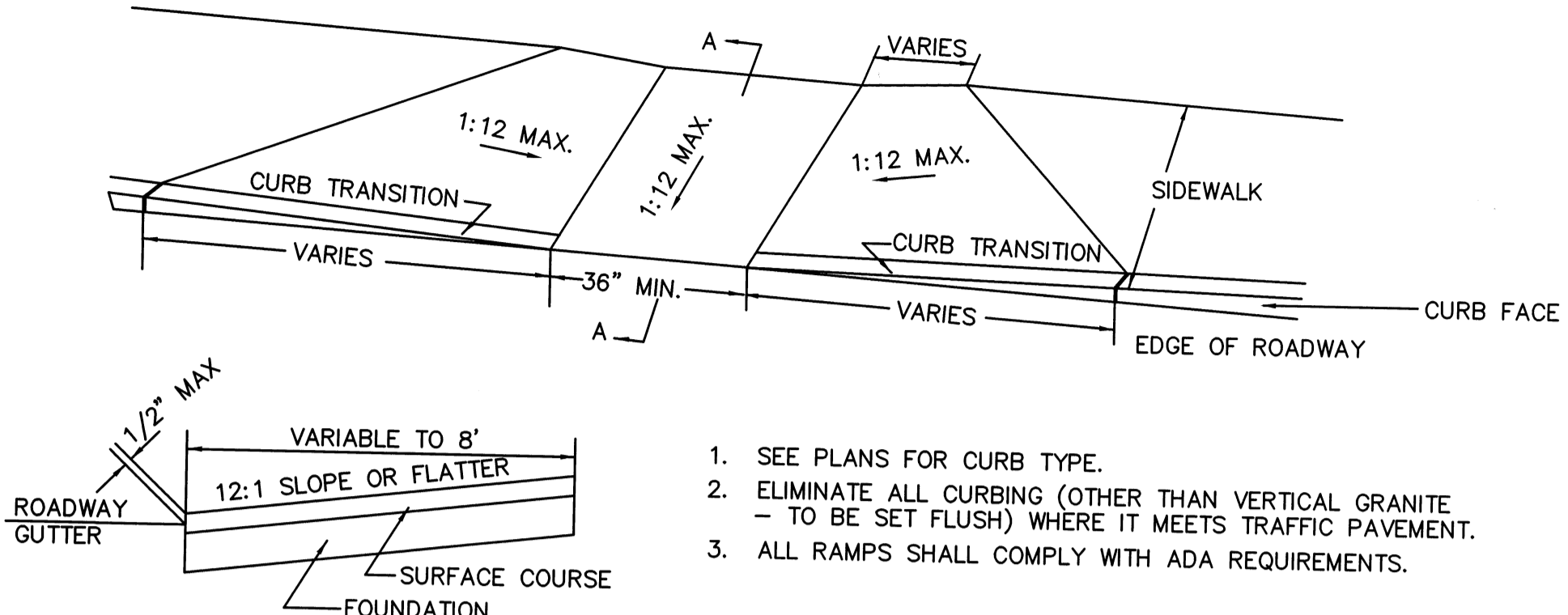


- *NOTES:
- 1.) SLOPES OUTSIDE THE ROW SHALL BE 3:1 SLOPES FOR EARTH & 1/2:1 SLOPES FOR LEDGE SLOPE.
 - 2.) THE MINIMUM GROUND COVER OVER UTILITIES MAY NEED TO BE REDUCED AT THE WETLAND CROSSINGS. THESE UTILITIES SHALL BE ENCASED IN CONCRETE AS NECESSARY AT THESE LOCATIONS.
 - 3.) THE SIDEWALK PAVEMENT SHALL BE PLACED IN TWO COURSES (BINDER AND FINISH COURSE).
 - 4.) ALL ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 6200 OF THE BOLTON SUBDIVISION REGULATIONS.
 - 5.) ALL FILLS SHALL BE PLACED IN 8" MINIMUM LIFTS BELOW THE ROAD SUB-BASE, SHALL BE OF AN APPROVED MATERIAL CONTAINING NOT MORE THAN 10% MATERIAL BY WEIGHT PASSING THE 200 SIEVE AND EACH LIFT SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT MAXIMUM DRY DENSITY OF THE MATERIAL DETERMINED BY THE STANDARD AASHTO TEST DESIGNATION T99 COMPACTION TEST METHOD AT OPTIMUM MOISTURE CONTENT.
 - 6.) LEDGE OCCURRING ANYWHERE IN THE FULL CROSS-SECTION OF THE ROADWAY MUST BE CLEARED TO A MINIMUM OF 18 INCHES BELOW FINISHED GRADE.

TYPICAL ROAD CROSS SECTION
N.T.S.

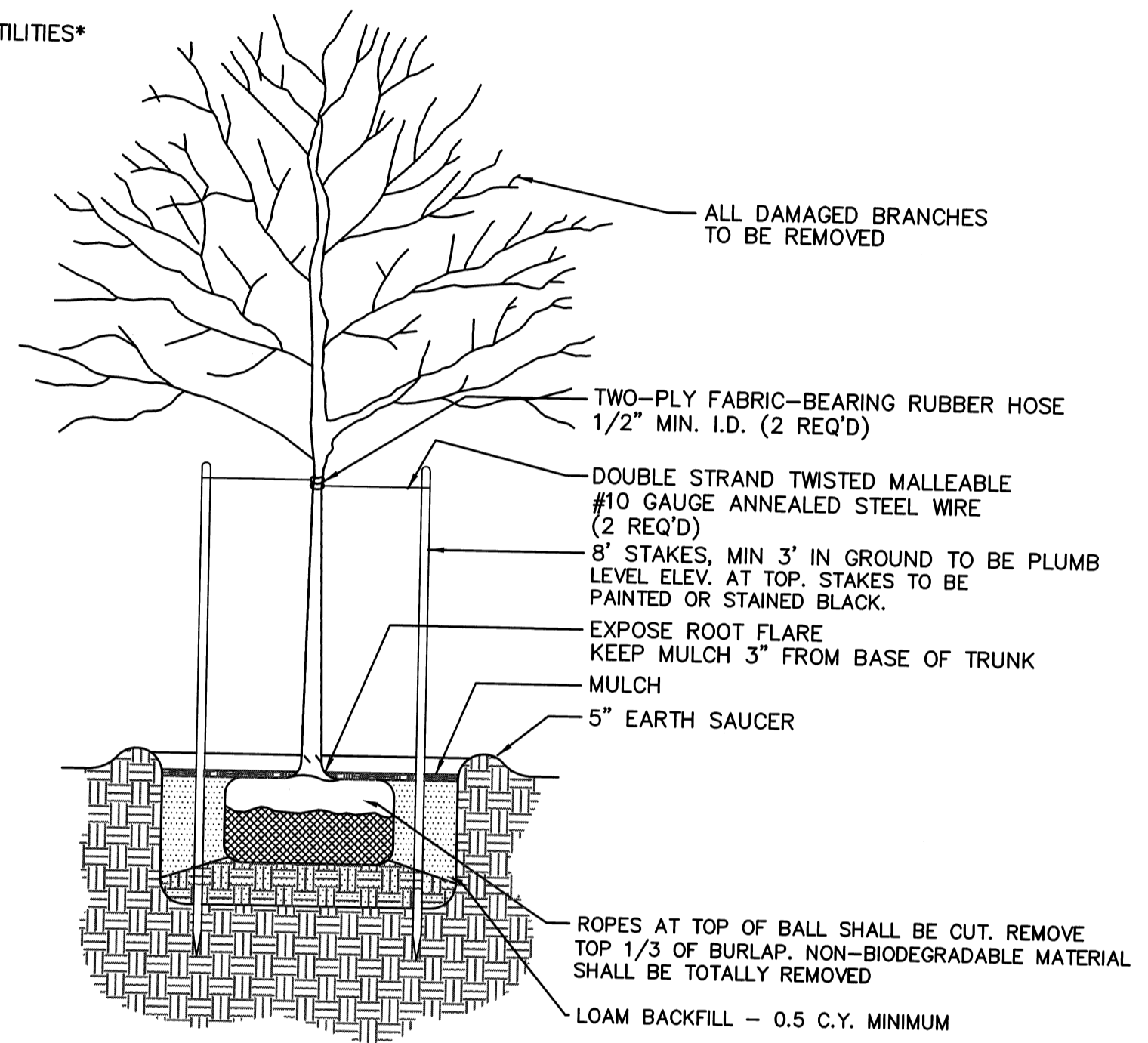


VERTICAL GRANITE CURB
N.T.S.



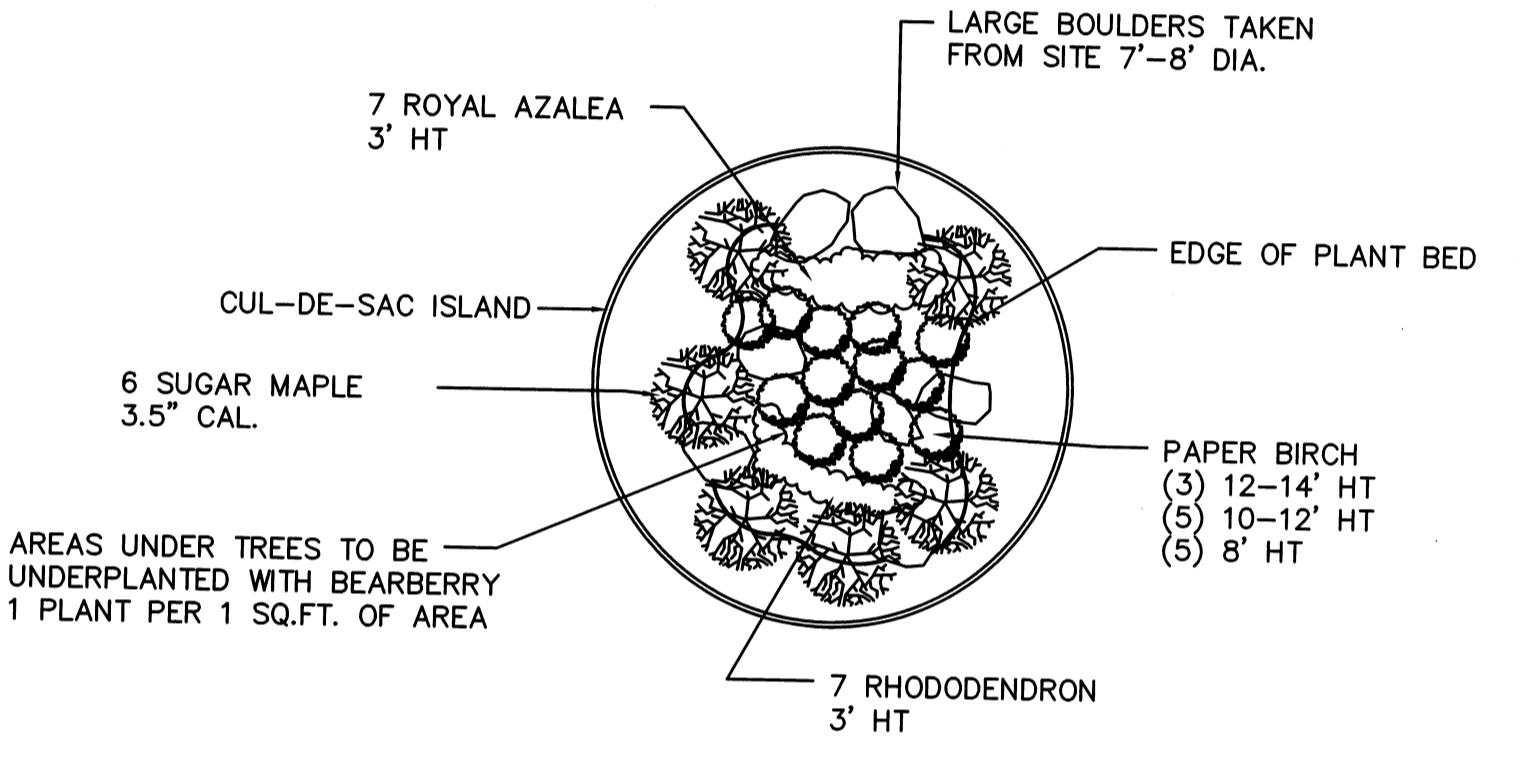
WHEEL CHAIR RAMPS
N.T.S.

1. SEE PLANS FOR CURB TYPE.
2. ELIMINATE ALL CURBING (OTHER THAN VERTICAL GRANITE - TO BE SET FLUSH) WHERE IT MEETS TRAFFIC PAVEMENT.
3. ALL RAMPS SHALL COMPLY WITH ADA REQUIREMENTS.

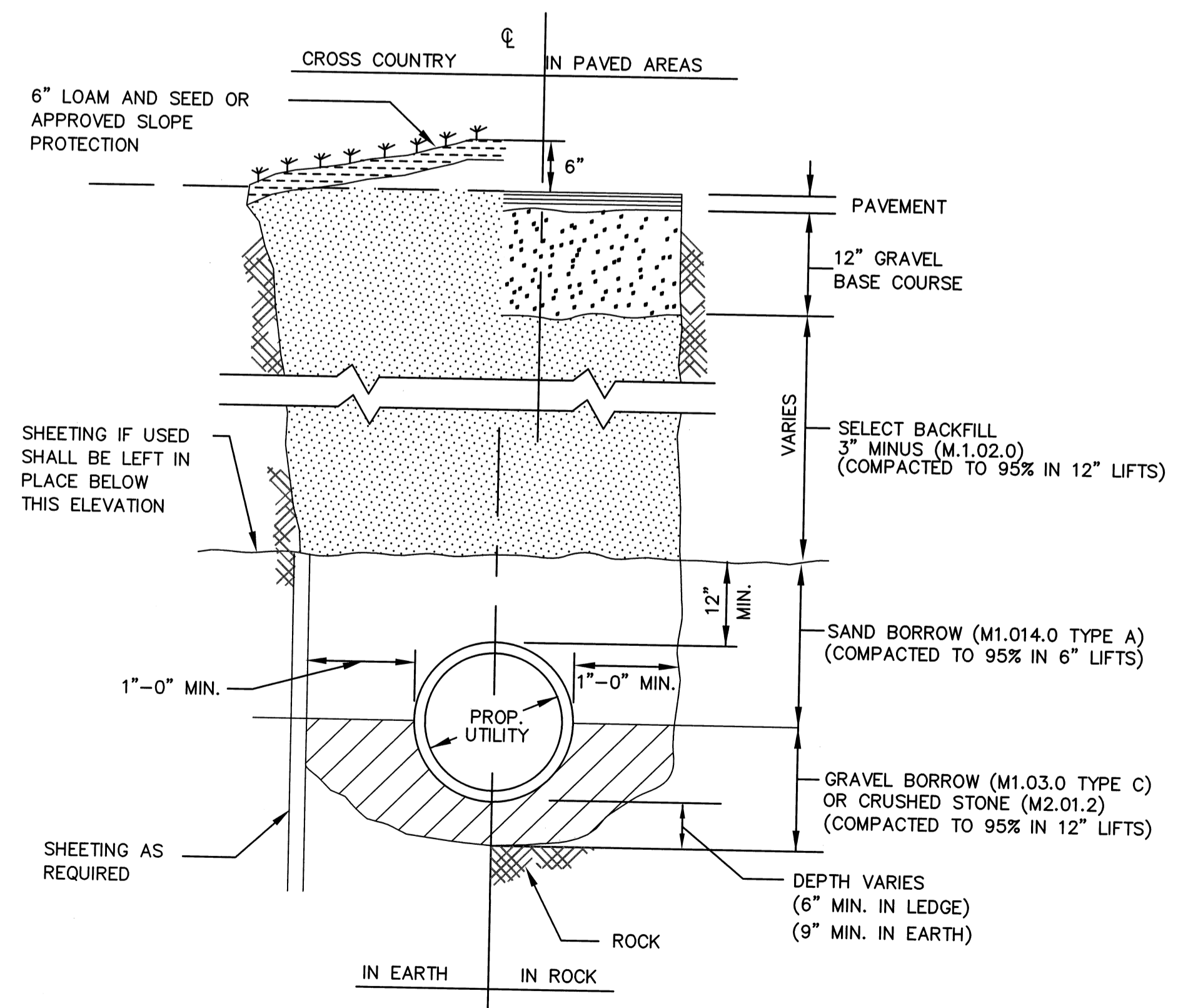


- NOTES:
1. TREES SHALL BE A MINIMUM OF 12' IN HEIGHT WHEN PLANTED.
 2. TYPE OF TREES TO BE USED SHALL BE DETERMINED PRIOR TO CONSTRUCTION UPON APPROVAL FROM THE TOWN.
 3. STREET TREES SHALL BE PLANTED IN ACCORDANCE WITH SECTION 6254 OF THE BOLTON SUBDIVISION REGULATIONS.

STREET TREE PLANTING DETAIL
N.T.S.

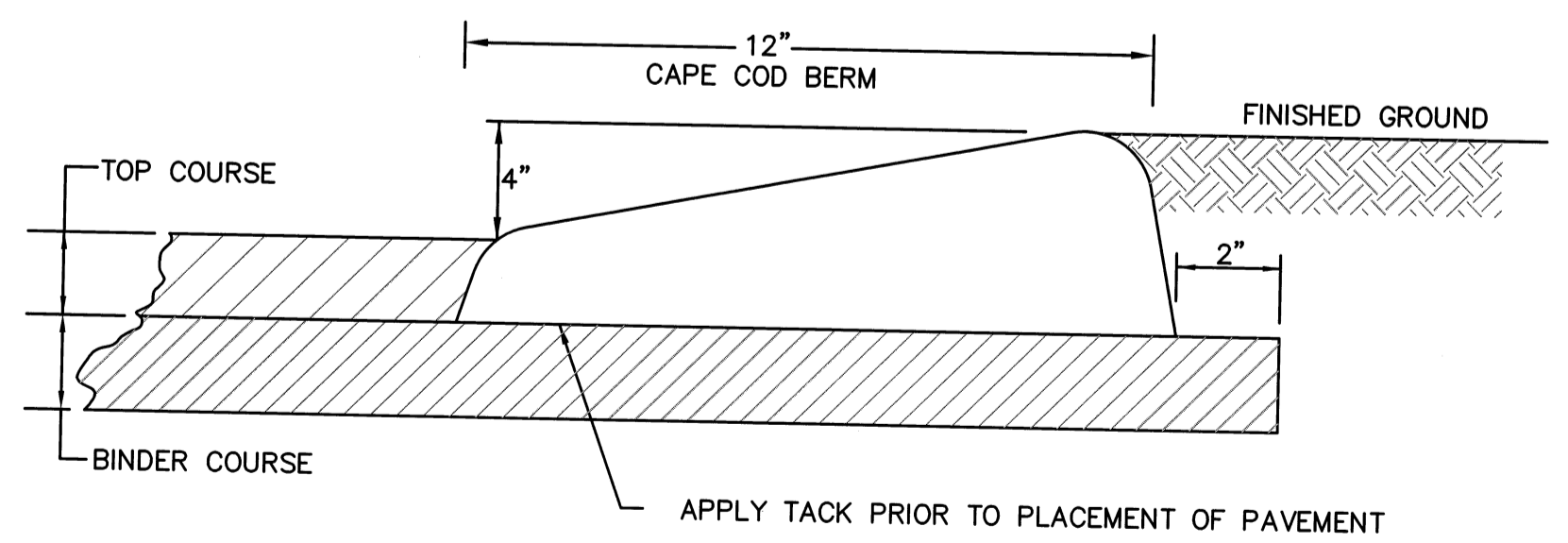


CUL-DE-SAC ISLAND PLANTING
N.T.S.

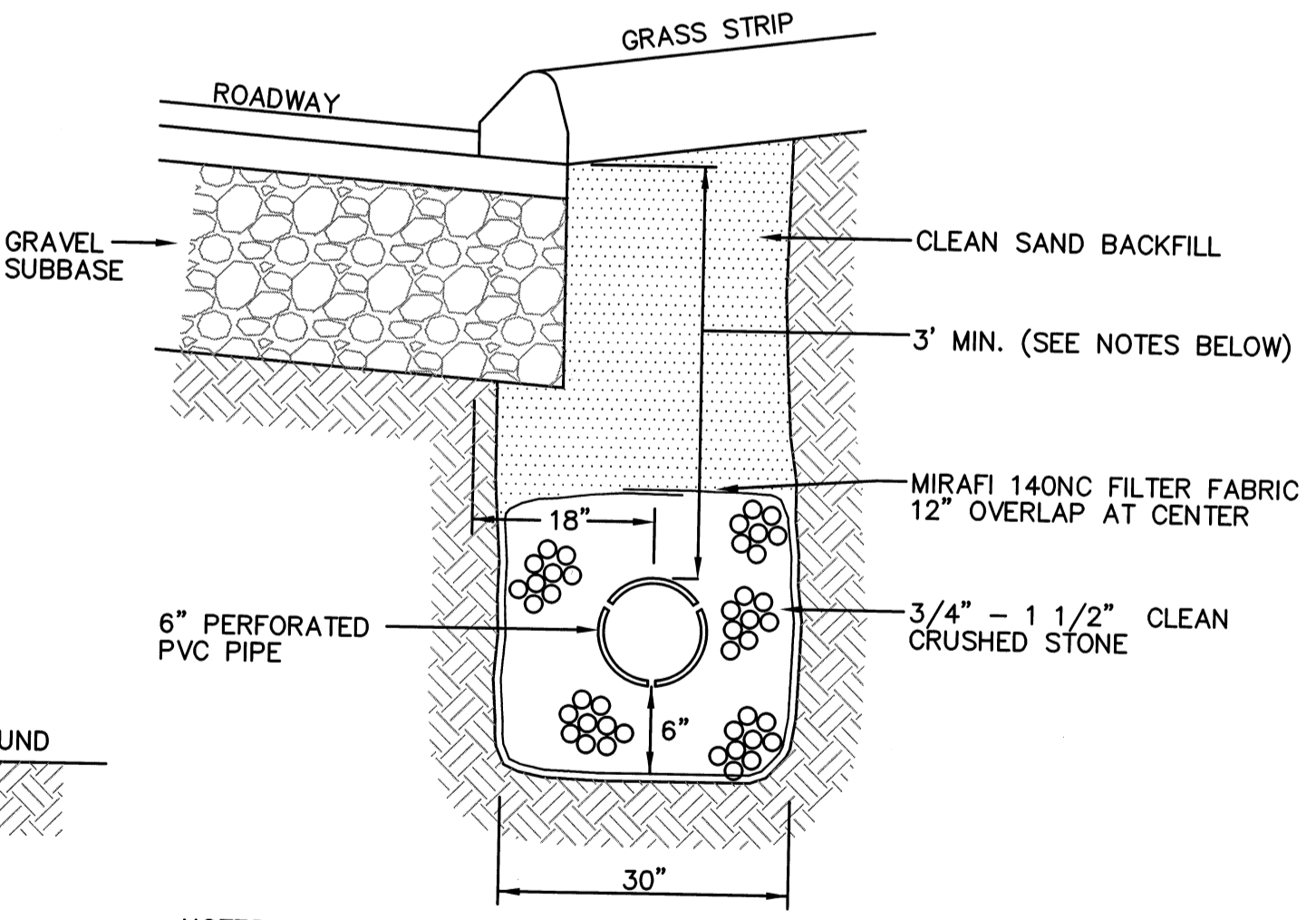


NOTE: TRENCH WIDTH SHALL BE A MINIMUM OF 3' WIDE OR 2' PLUS THE PIPE DIAMETER, WHICHEVER IS GREATER.

TYPICAL TRENCH DETAIL
N.T.S.



CAPE COD BERM
N.T.S.



- NOTES:
1. UNDERDRAINS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS AS WELL AS ANY OTHER LOCATIONS NECESSARY AS DETERMINED BY FIELD CONDITIONS DURING CONSTRUCTION.
 2. THE 3' MINIMUM DEPTH SHALL BE CONSTRUCTED WHERE POSSIBLE. IN AREAS NEAR THE UNDERDRAIN OUTLETS THIS MINIMUM DEPTH MAY BE REDUCED AS NECESSARY TO PROVIDE A FREE FLOW DISCHARGE.

UNDERDRAIN DETAIL
N.T.S.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
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| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

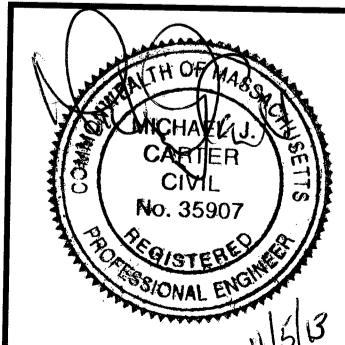
STANDARD DETAILS

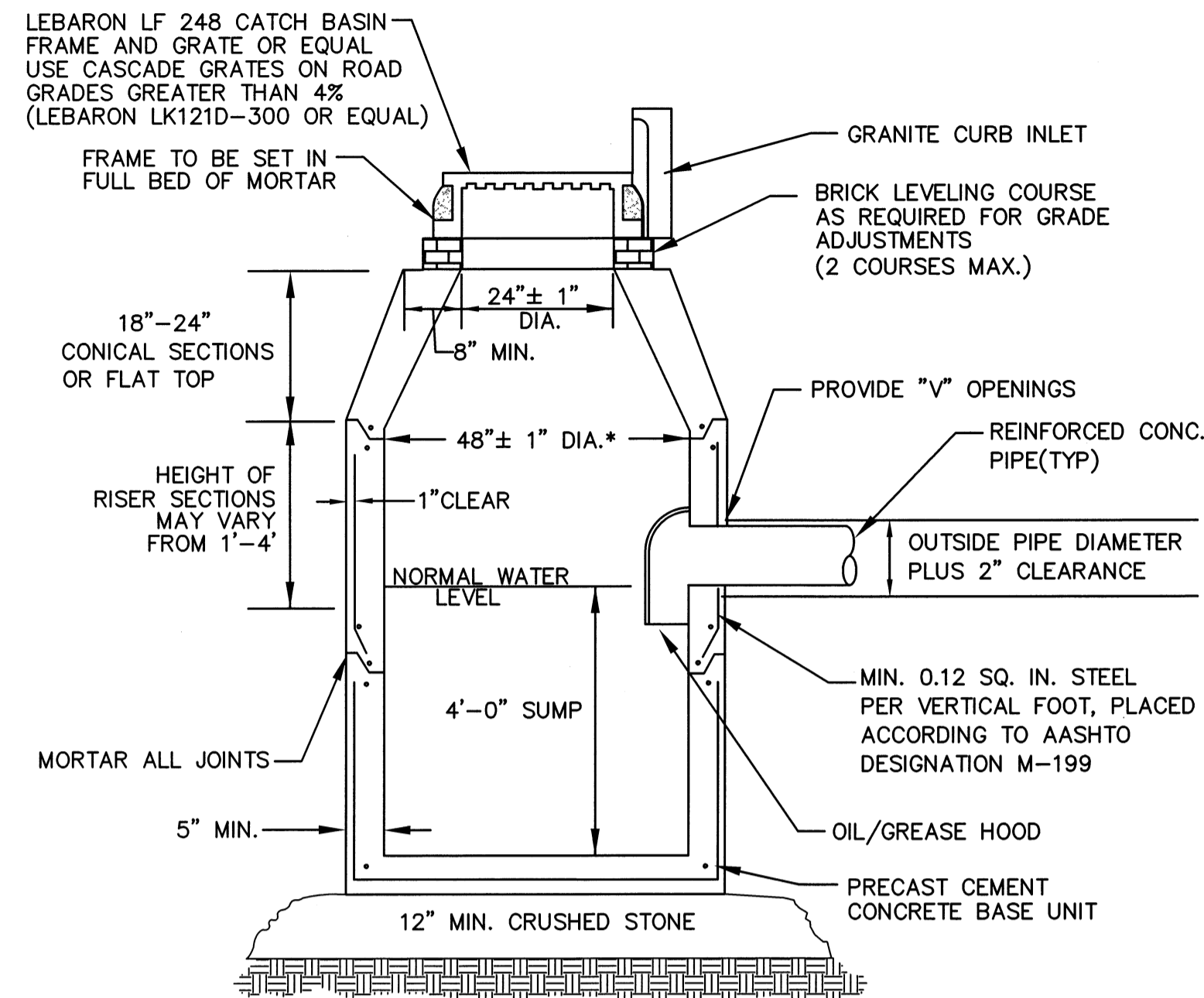
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD DET1.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

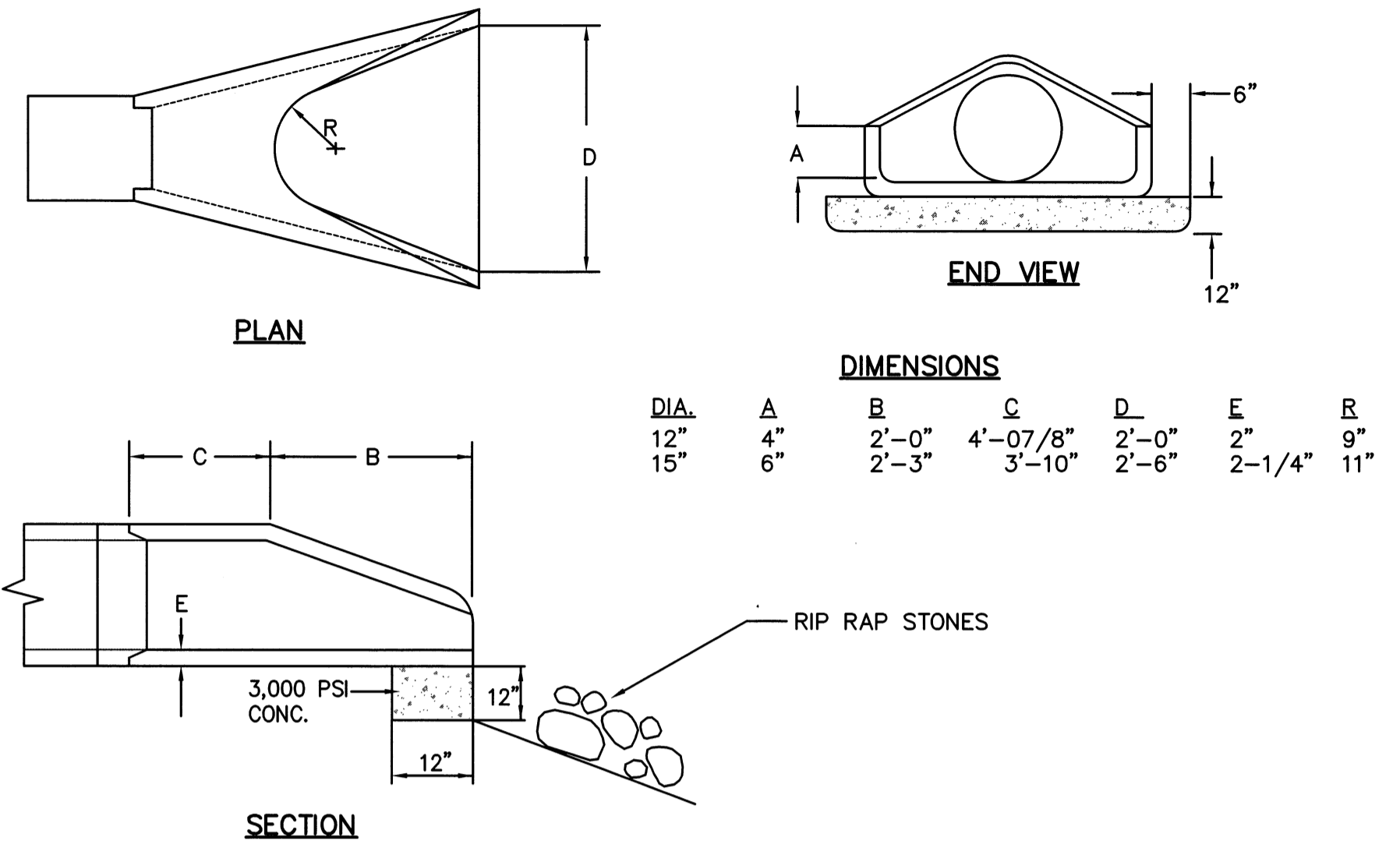
PLAN NO. 46 OF 64





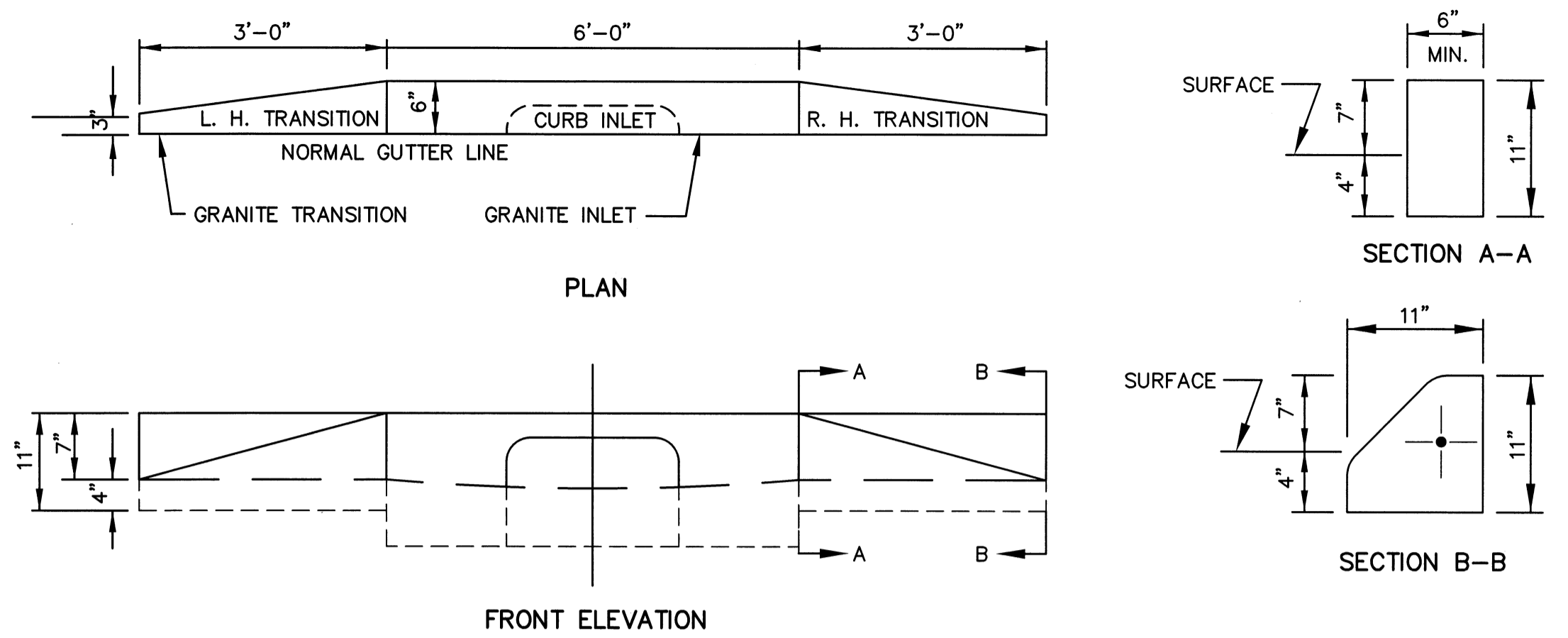
* DOUBLE GRATED CATCH BASINS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 60" & A 6" WALL THICKNESS.

PRECAST CONCRETE CATCH BASIN
N.T.S.

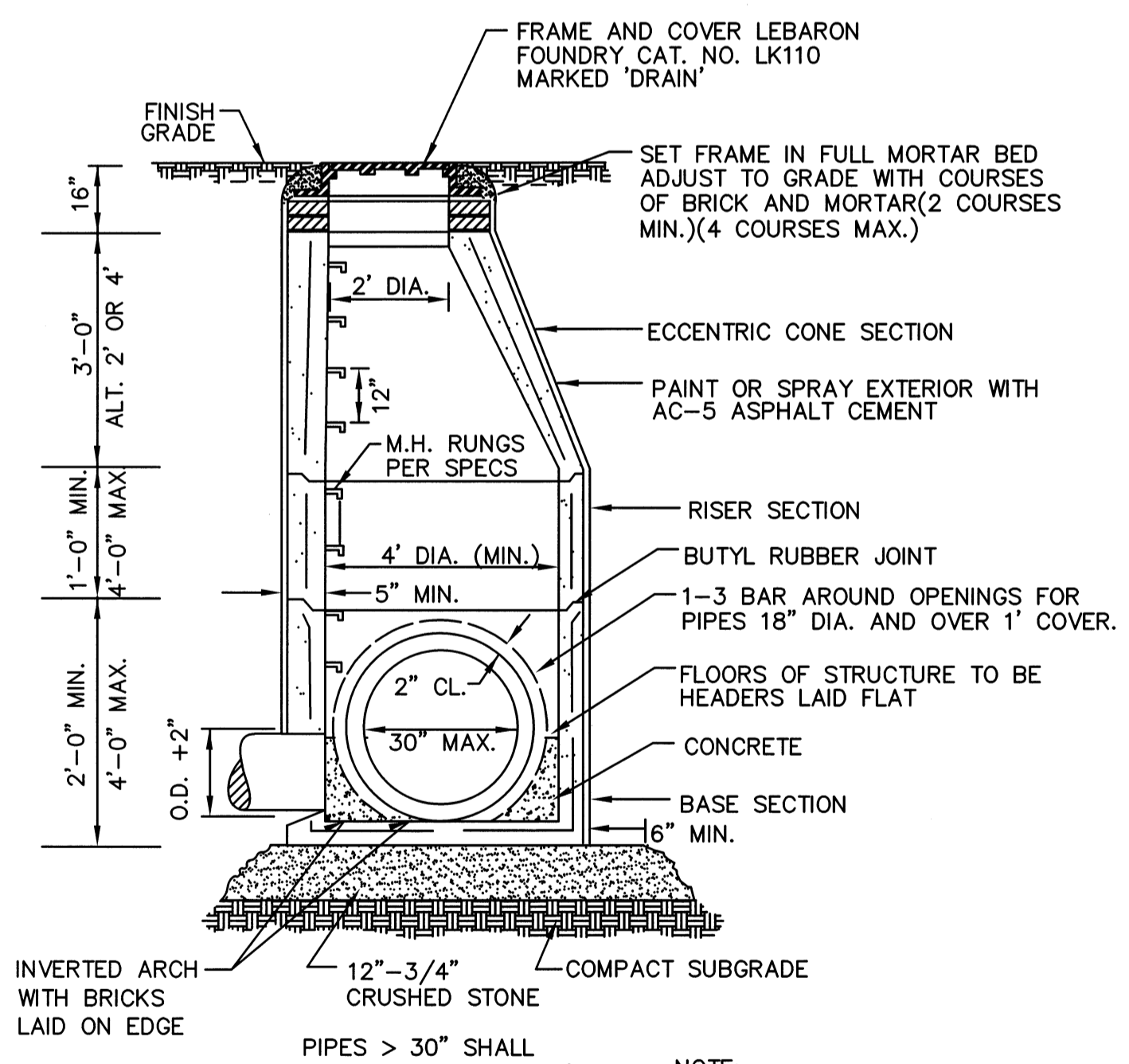


NOTE: ALL DISCHARGE LOCATIONS WITH PIPE DIAMETERS GREATER THAN 15" SHALL HAVE A FIELD STONE HEADWALL.

REINFORCED CONCRETE PIPE FLARED END SECTION
N.T.S.

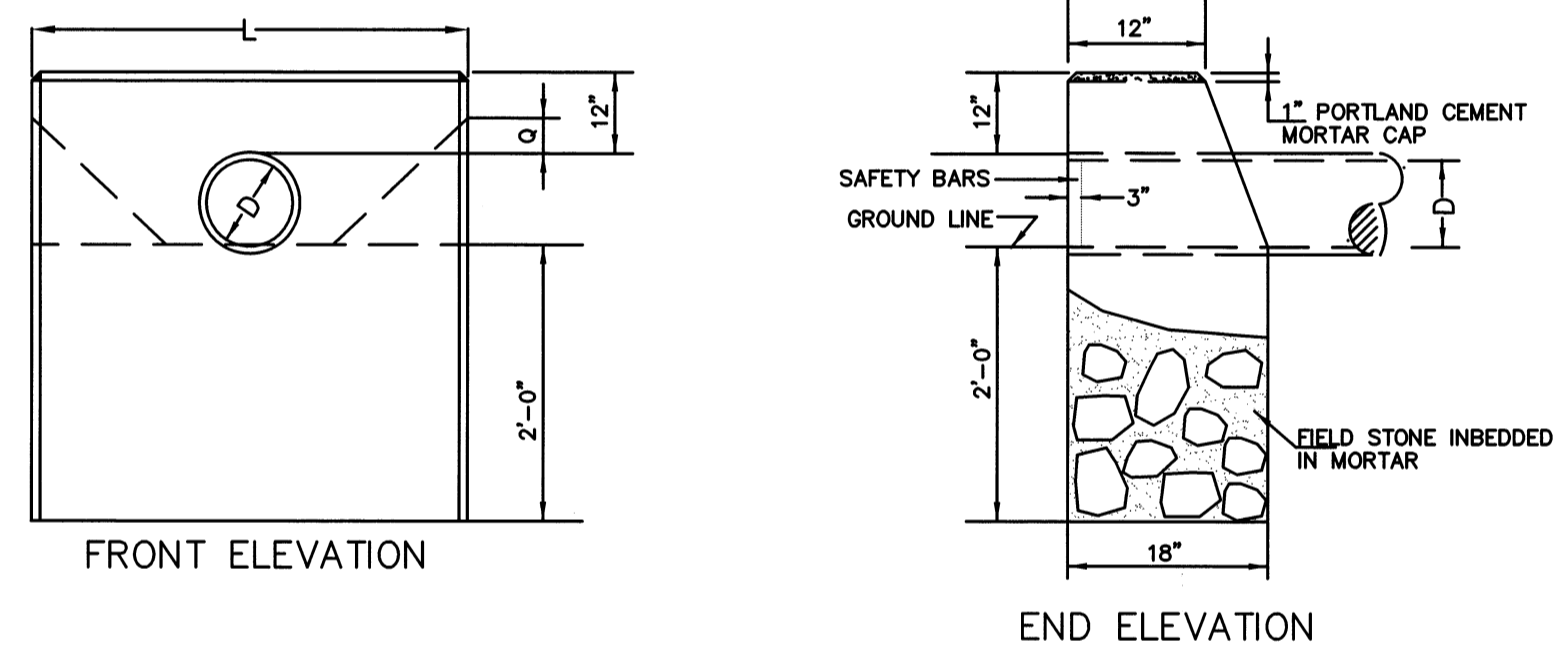


TRANSITION AT CURB INLET
N.T.S.



TYPICAL PRECAST DRAIN MANHOLE
N.T.S.

NOTE: PRECAST REINFORCED CONCRETE MANHOLE BASE, CONE AND RISER SECTIONS PER A.S.T.M. C-478 PIPE OPENINGS TO BE PRECAST IN BASE SECTION

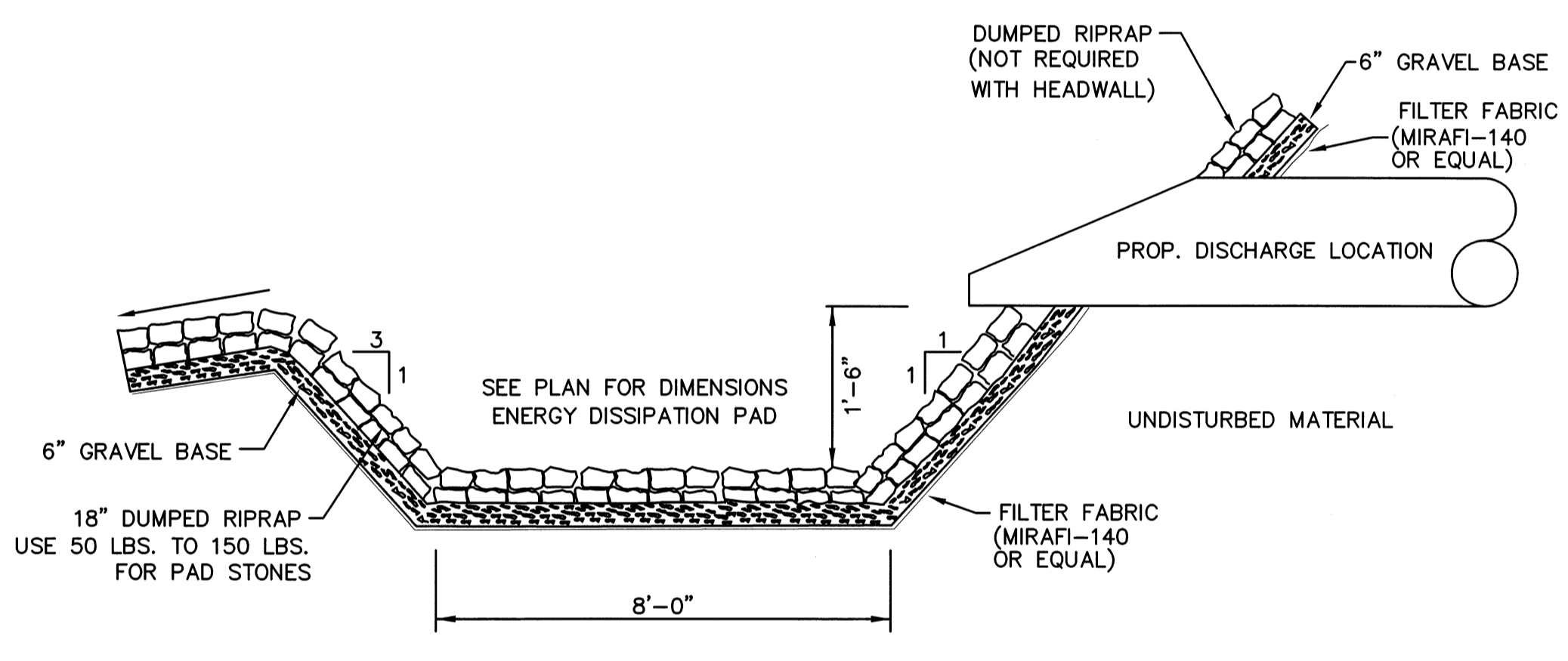


FIELD STONE MASONRY ENDS FOR 18" TO 30" PIPE
N.T.S.

| TRENCH EXCAV. 1'-0" DEPTH | PIPE DIAM. | 1 1/2: 1 SLOPE | | 2: 1 SLOPE | | TRENCH EXCAV. 1'-0" DEPTH | | |
|---------------------------|------------|----------------|------|------------|--------------------------|---------------------------|------------|-------|
| | | CU. FT. | D | L | CONC. OR F.S.M. CU. YDS. | | STEEL LBS. | L |
| 26.25 | 12" | 5'-6" | 1.08 | 21 | 7'-6" | 1.49 | 29 | 33.25 |
| 29.75 | 15" | 6'-6" | 1.34 | 24 | 8'-9" | 1.82 | 32 | 37.63 |
| 33.25 | 18" | 7'-6" | 1.61 | 30 | 10'-0" | 2.18 | 39 | 42.00 |
| 37.35 | 21" | 8'-6" | 1.95 | 34 | 11'-6" | 2.62 | 43 | 47.25 |
| 39.38 | 24" | 9'-3" | 2.16 | 35 | 12'-6" | 2.97 | 50 | 50.75 |
| 43.75 | 30" | 10'-6" | 2.63 | 44 | 15'-0" | 3.86 | 62 | 59.50 |

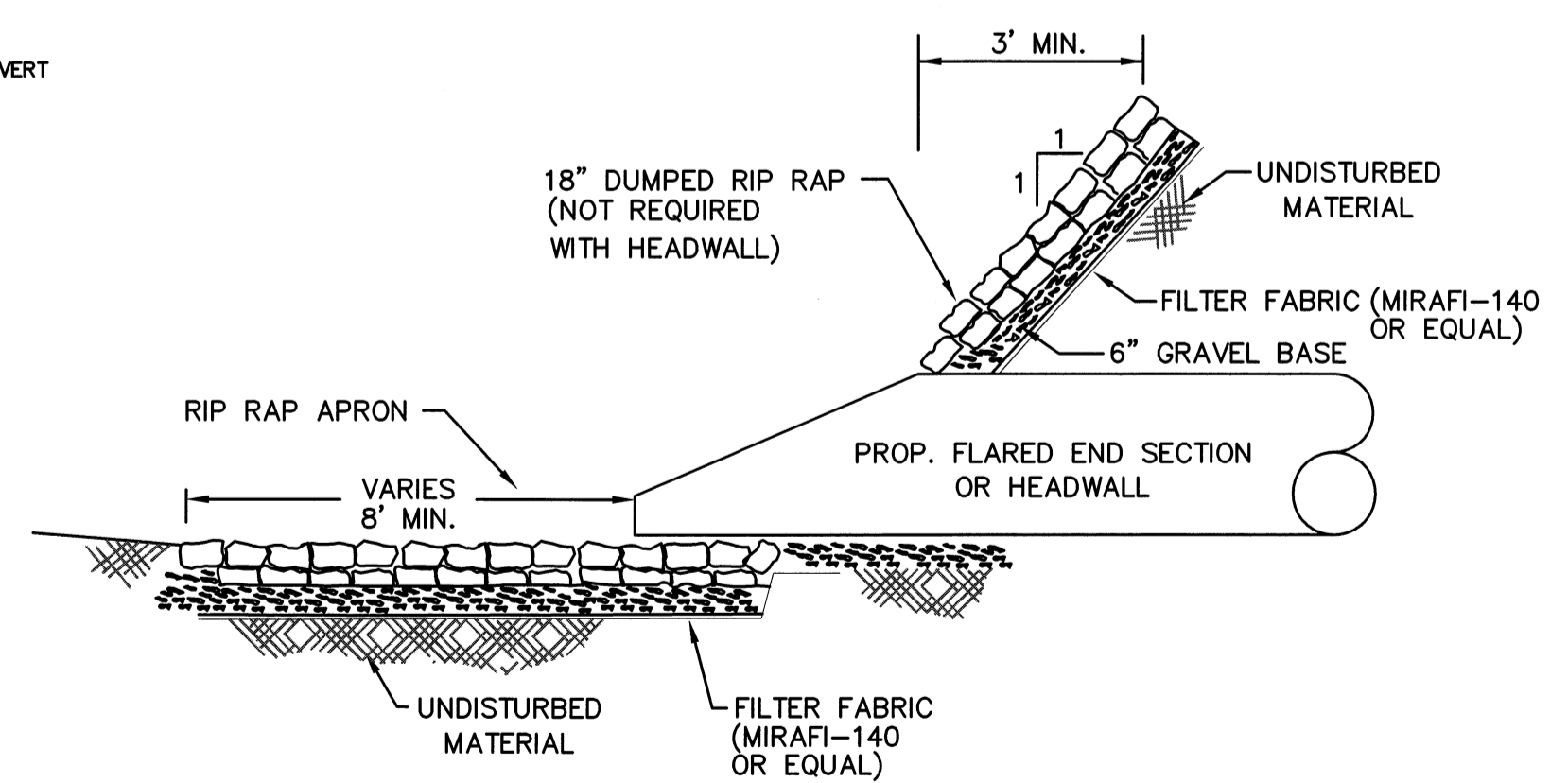
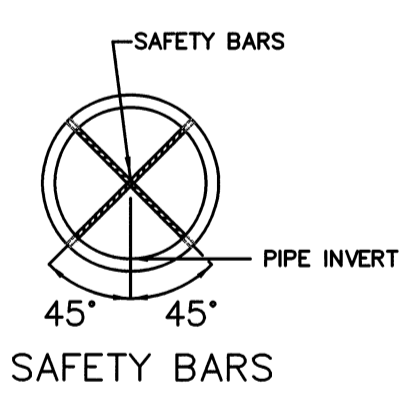
NOTE: 1. FOR DESCRIPTIONS, MATERIALS AND CONSTRUCTION METHODS, SEE LATEST MDPW SPECIFICATIONS. 2. ALL DIMENSIONS SHOWN ARE MINIMUM. 3. ALL DISCHARGE LOCATIONS WITH PIPE DIAMETERS GREATER THAN 15" SHALL HAVE A FIELD STONE HEADWALL.

SAFETY BAR NOTES: 1. SAFETY BARS SHALL BE NO. 6 EPOXY COATED REBAR OR EQUAL. 2. SAFETY BARS SHALL BE DRILLED AND MORTARED INTO PLACE. 3. 2 BARS SHALL BE USED AND INSTALLED PER THE DETAIL.



NOTES: 1.) 60% OF THE RIP RAP SHALL BE 8" OR LARGER. 2.) MAXIMUM RIP RAP SIZE SHALL BE 12".

ENERGY DISSIPATION PAD / SPREADER SWALE
N.T.S.



NOTES: 1.) 60% OF THE RIP RAP SHALL BE 8" OR LARGER. 2.) MAXIMUM RIP RAP SIZE SHALL BE 12".

RIP RAP OUTLET PROTECTION
N.T.S.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

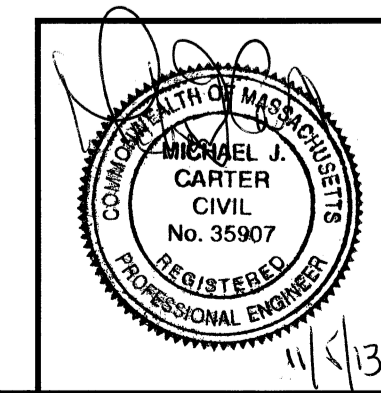
STANDARD DETAILS

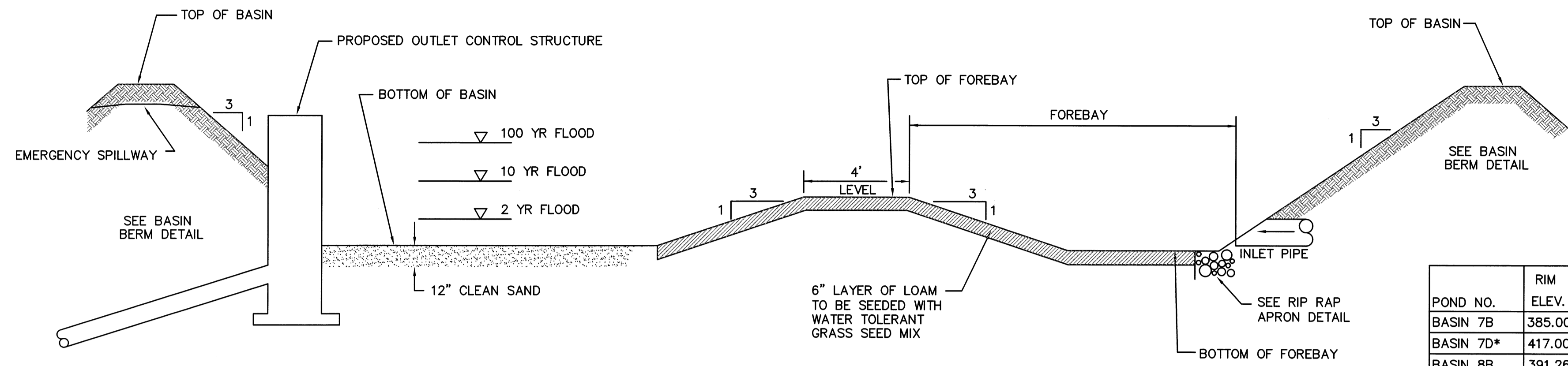
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. FILE NAME: 0213-DEF-LOT-MOD DET1.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO. 47 OF 64



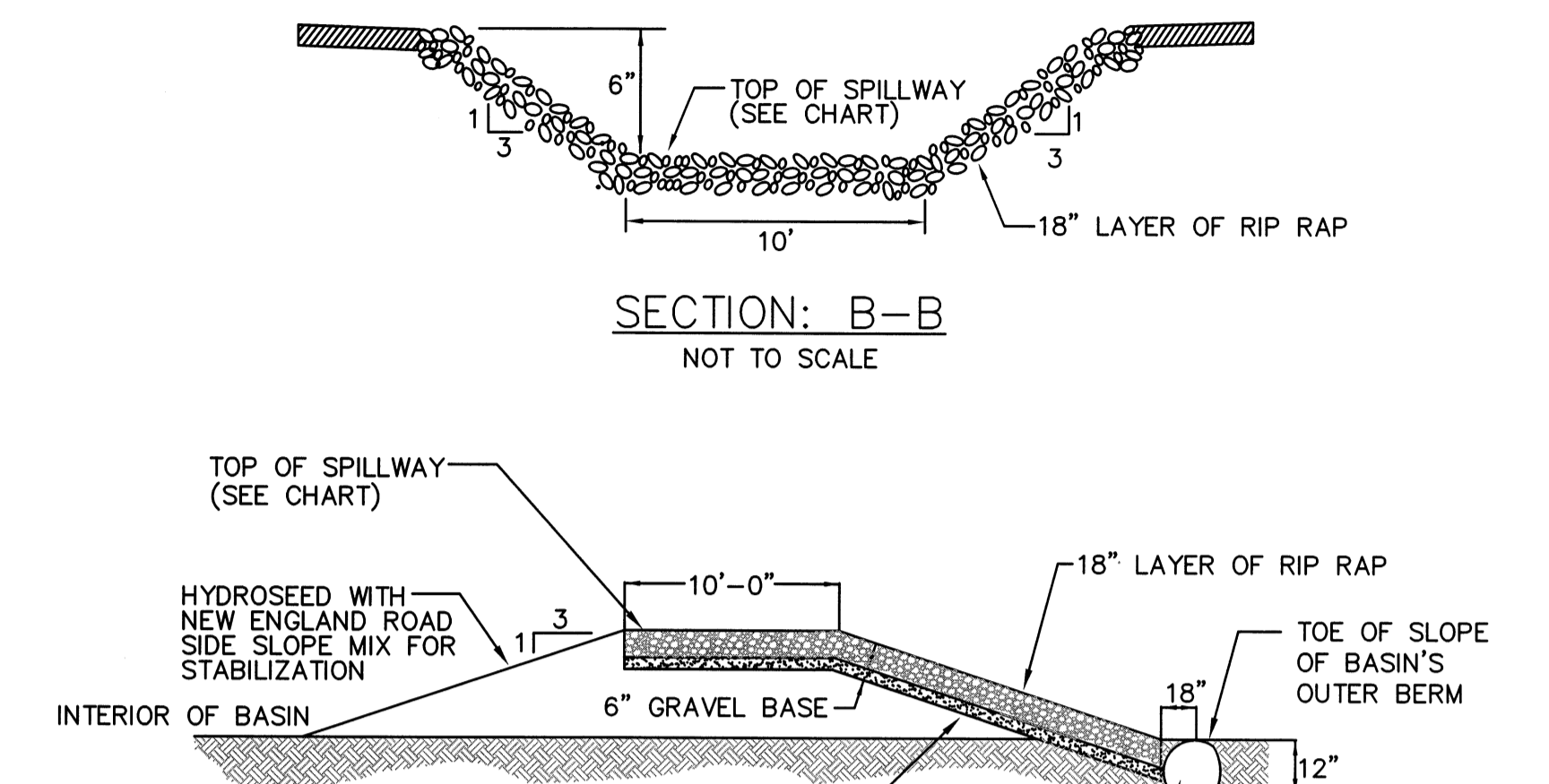


DETENTION BASIN CROSS SECTION
N.T.S.

| POND NO. | RIM ELEV. | WEIR ELEV. | WEIR WIDTH | OUTLET ELEV. | OUTLET PIPE | TOP OF BASIN | SPILLWAY ELEV. |
|-----------|-----------|------------|------------|--------------|-------------|--------------|----------------|
| BASIN 7B | 385.00 | 383.25 | 3.0' | 379.82 | 15" | 386.00 | 385.50 |
| BASIN 7D* | 417.00 | 415.00 | 3.0' | 413.50 | 15" | 418.00 | 417.50 |
| BASIN 8B | 391.26 | 390.50 | 3.0' | 388.50 | 12" | 392.25 | 391.75 |
| BASIN 8C | 399.00 | 397.50 | 3.0' | 393.50 | 15" | 400.00 | 399.50 |
| BASIN 9B | 401.32 | 400.50 | 2.0' | 397.50 | 12" | 402.25 | 401.75 |
| BASIN 9C | 411.19 | 409.75 | 3.0' | 406.44 | 24" | 412.25 | 411.75 |
| BASIN 9D | 421.01 | 420.00 | 3.0' | 415.50 | 12" | 422.00 | 421.50 |

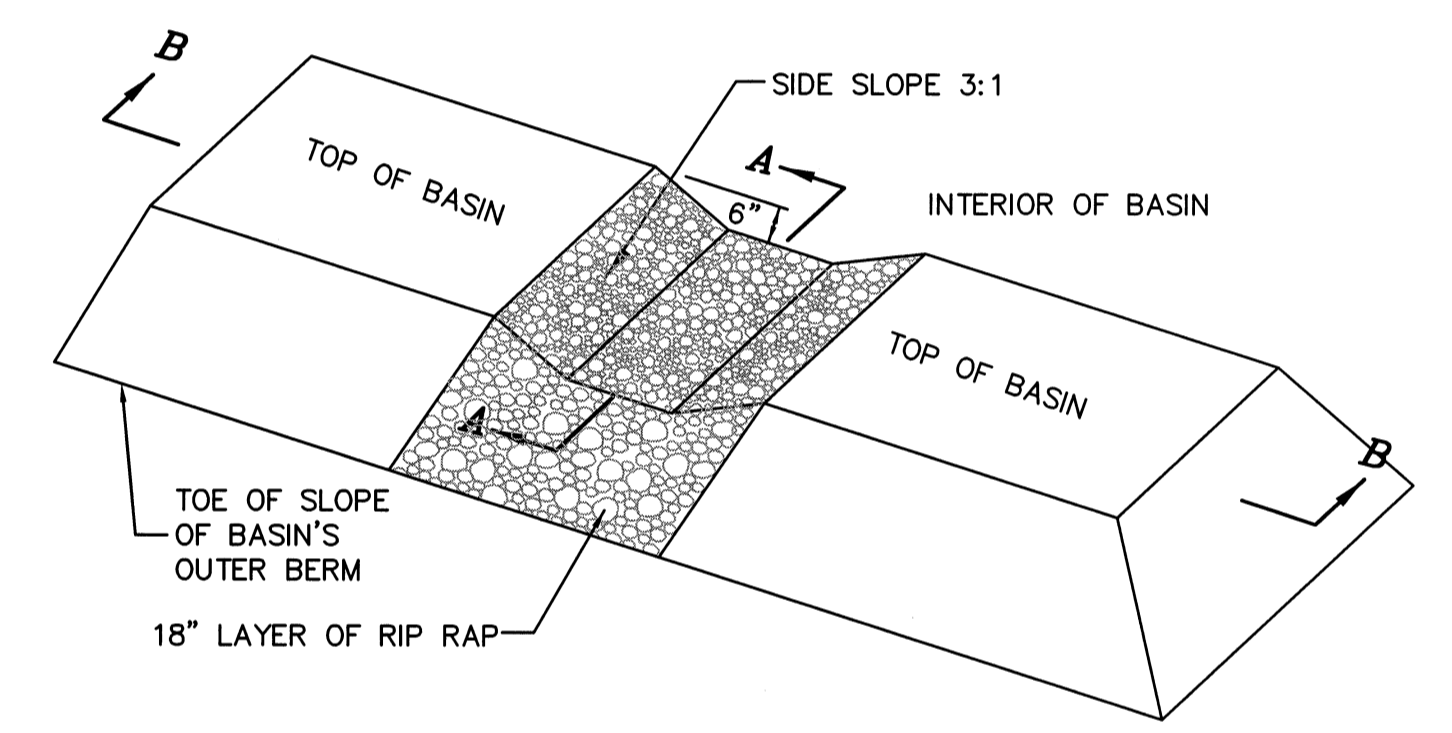
*NOTE: O.C.S. #7D - 6" ORIFICE EL=414.00

DETENTION BASIN
OUTLET STRUCTURE ELEVATIONS

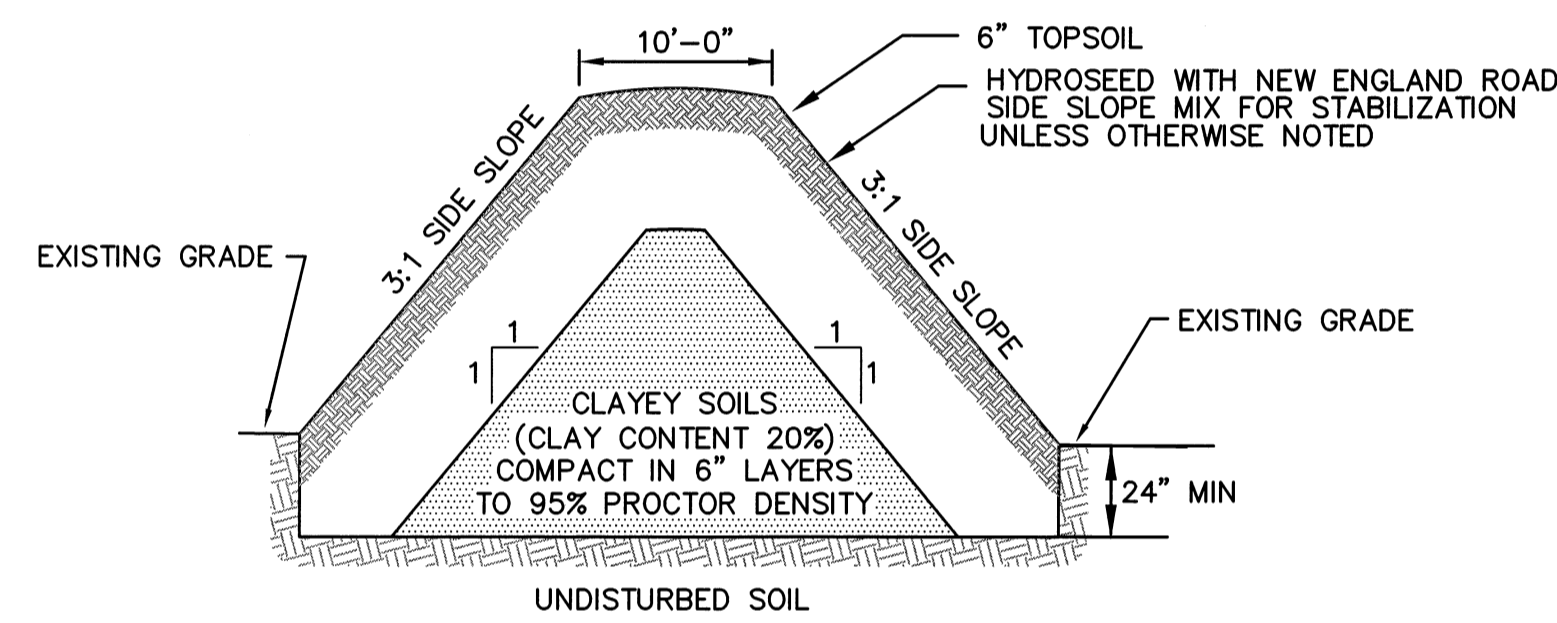


NOTE: 60% OF THE RIP RAP SHALL BE 12" OR MORE AND IN ACCORDANCE WITH M.D.P.W. STD. SPEC. 258.20.

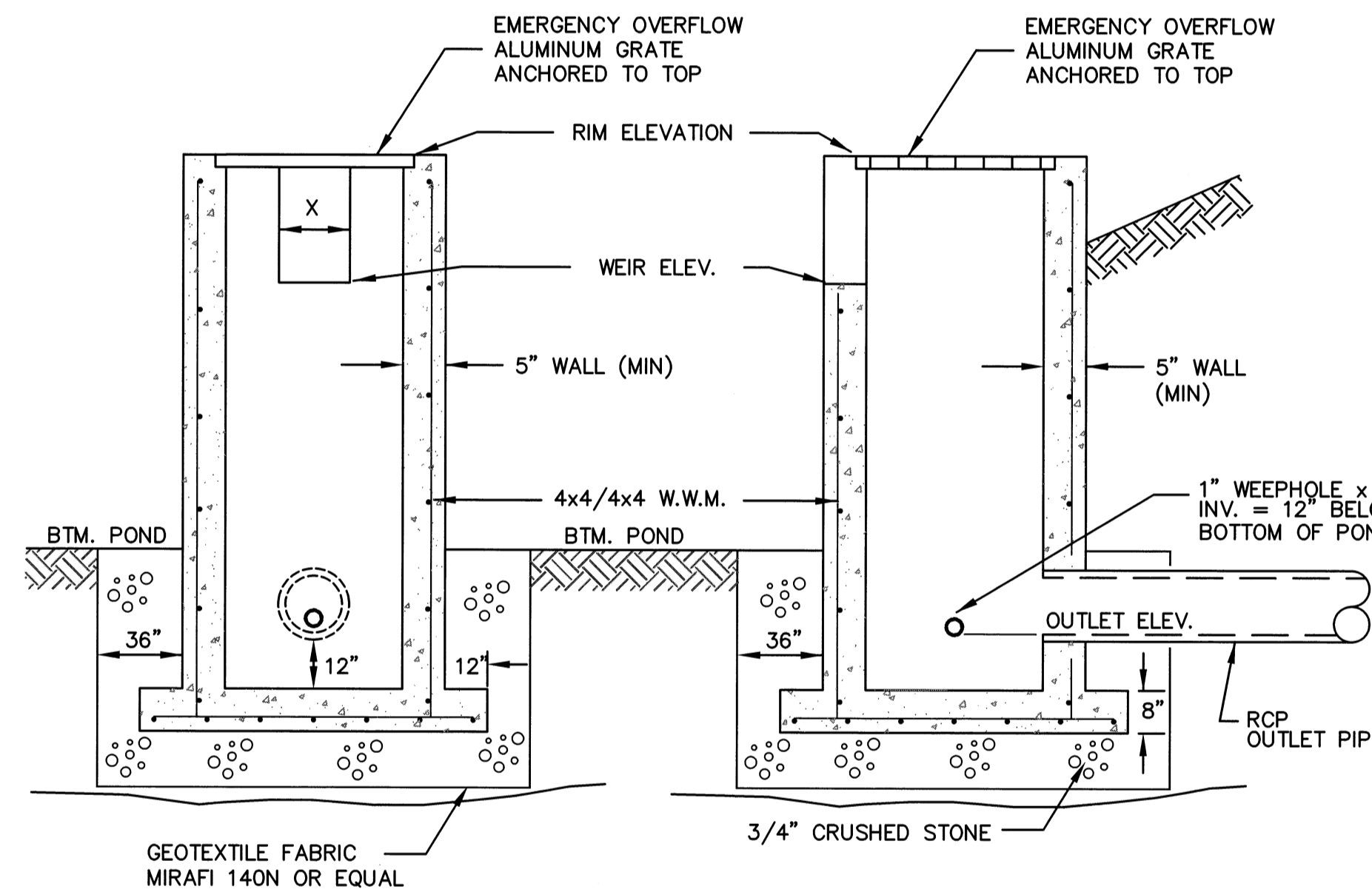
SECTION: A-A
NOT TO SCALE



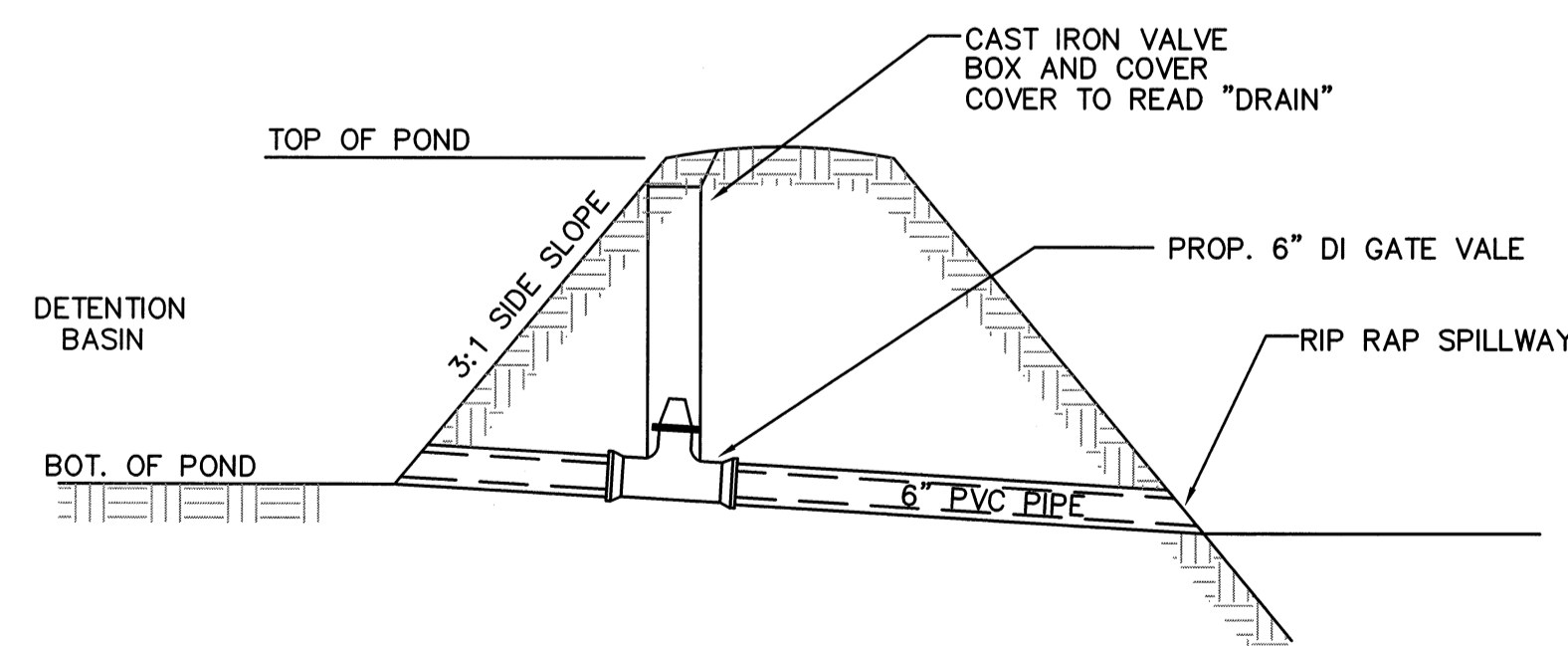
EMERGENCY SPILLWAY DETAIL
N.T.S.



TYPICAL DIKE SECTION
AT DETENTION BASIN
N.T.S.

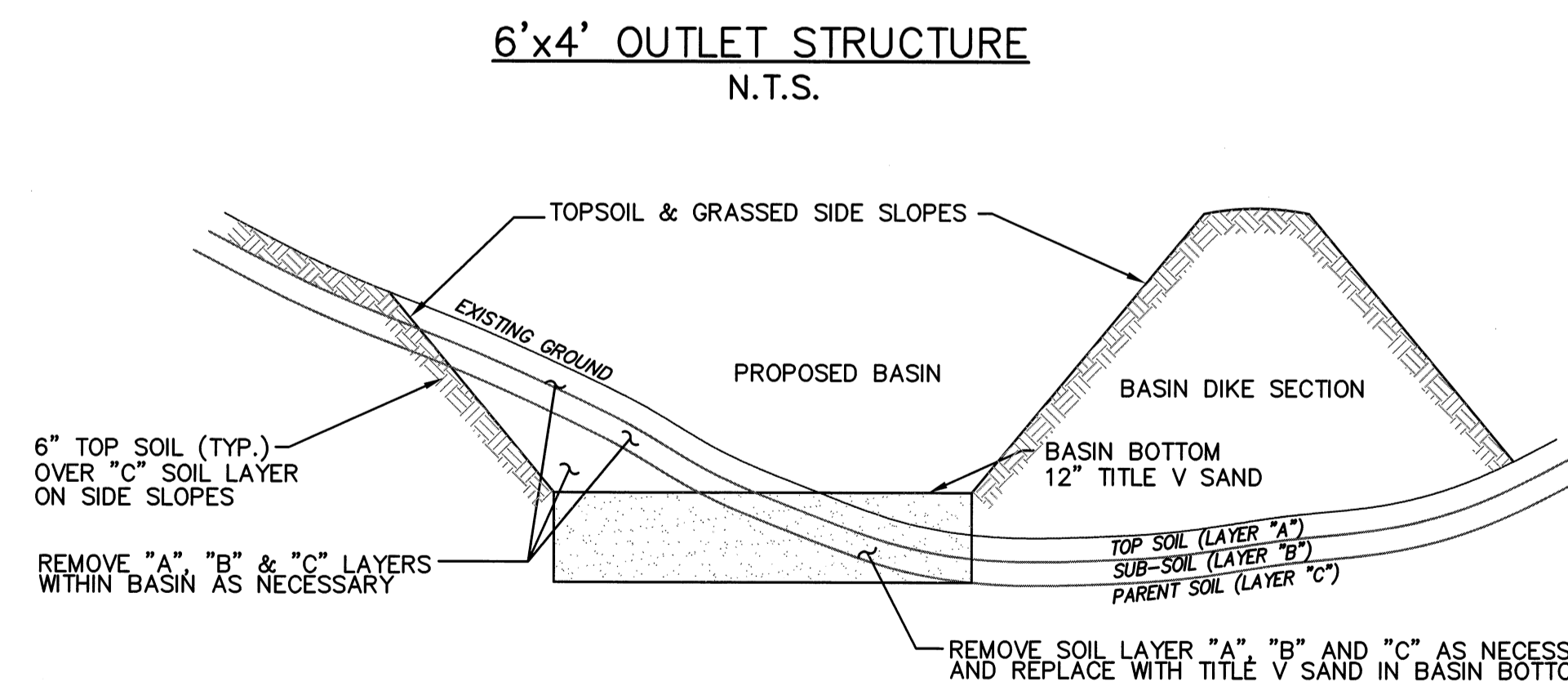


6'x4' OUTLET STRUCTURE
N.T.S.



BASIN EMERGENCY OUTLET
N.T.S.

NOTE: 1. THE EMERGENCY OUTLET SHALL BE USED TO DRAIN THE BASIN IN THE EVENT THAT THE DETENTION BASIN BECOMES CLOGGED.
2. THE GATE VALVE AND BOX SHALL BE LOCATED AND ALIGNED WITH THE EDGE OF THE TOP OF POND BERM AS SHOWN.



TYPICAL BASIN BOTTOM
N.T.S.

NOTES:
1. REMOVE ALL TOP AND SUB-SOIL WITHIN BASINS. REPLACE REMOVED SOIL WITH EXISTING "C" LAYER SOILS OR TITLE V SAND AS NECESSARY.
2. THE ENTIRE BOTTOM OF THE BASIN SHALL CONSIST OF A MINIMUM OF 12" OF TITLE V SAND PLACED DIRECTLY OVER NATIVE "C" LAYER SOILS.
3. THE SIDE SLOPES WITHIN THE BASIN SHALL RECEIVE 6" OF TOPSOIL AND SEED PLACED OVER THE NATIVE "C" SOIL. SEED SHALL BE A WATER TOLERANT MIX.

| NO. | DATE | DESCRIPTION | BY |
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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

STANDARD DETAILS

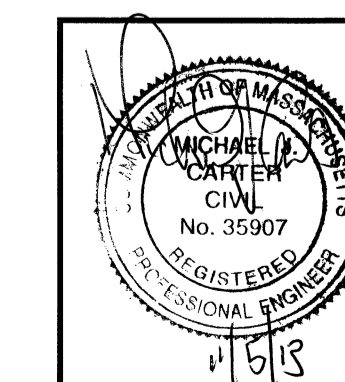
GCG ASSOCIATES, INC.

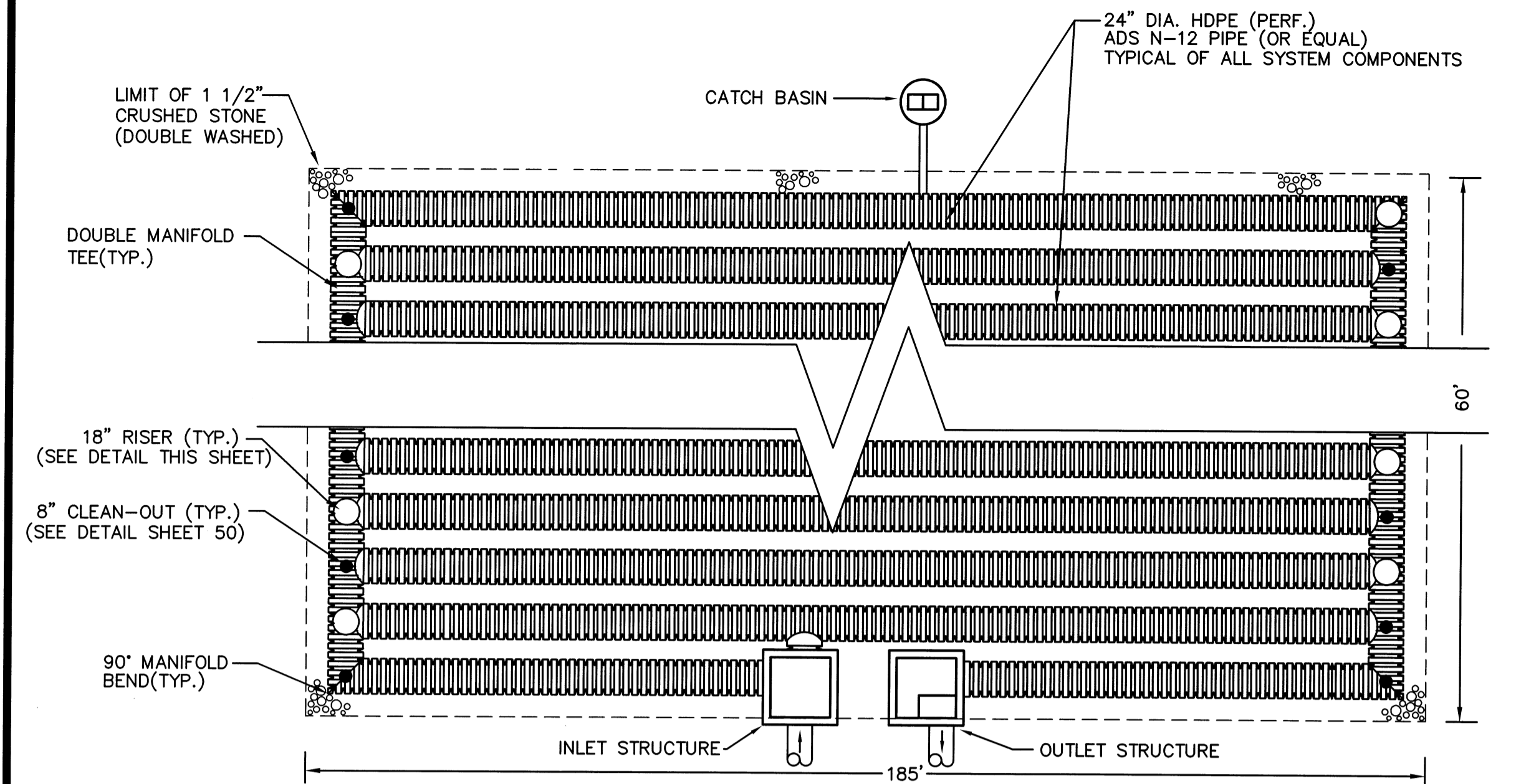
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

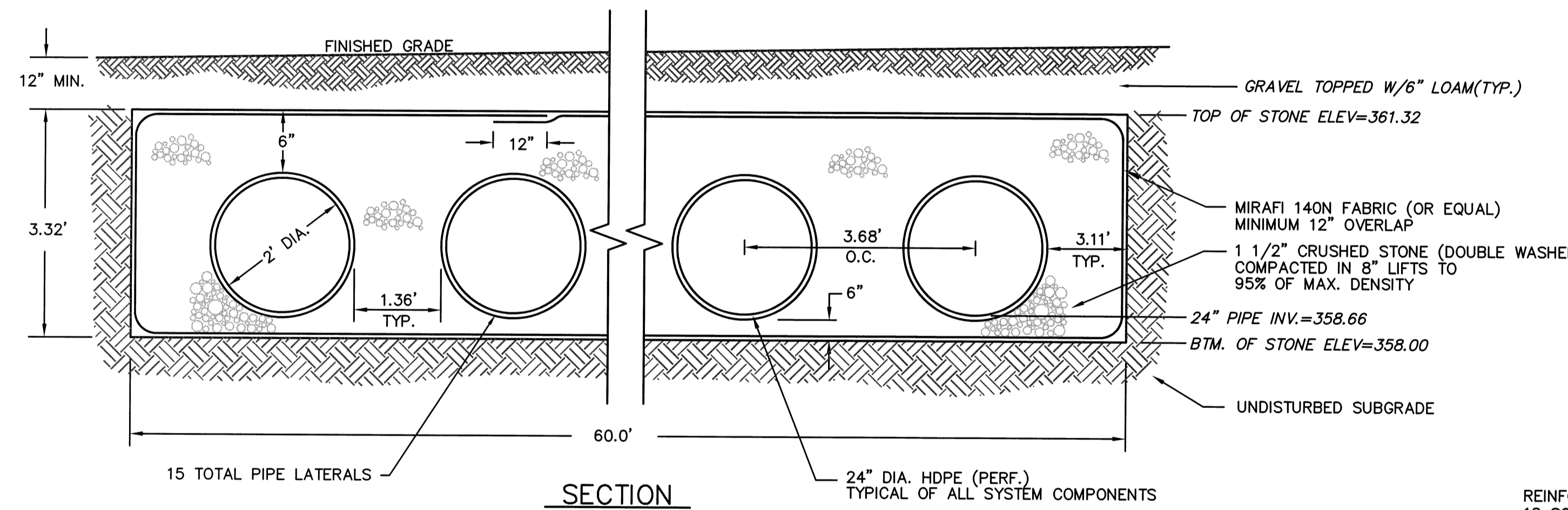
PLAN NO.
48 OF 64





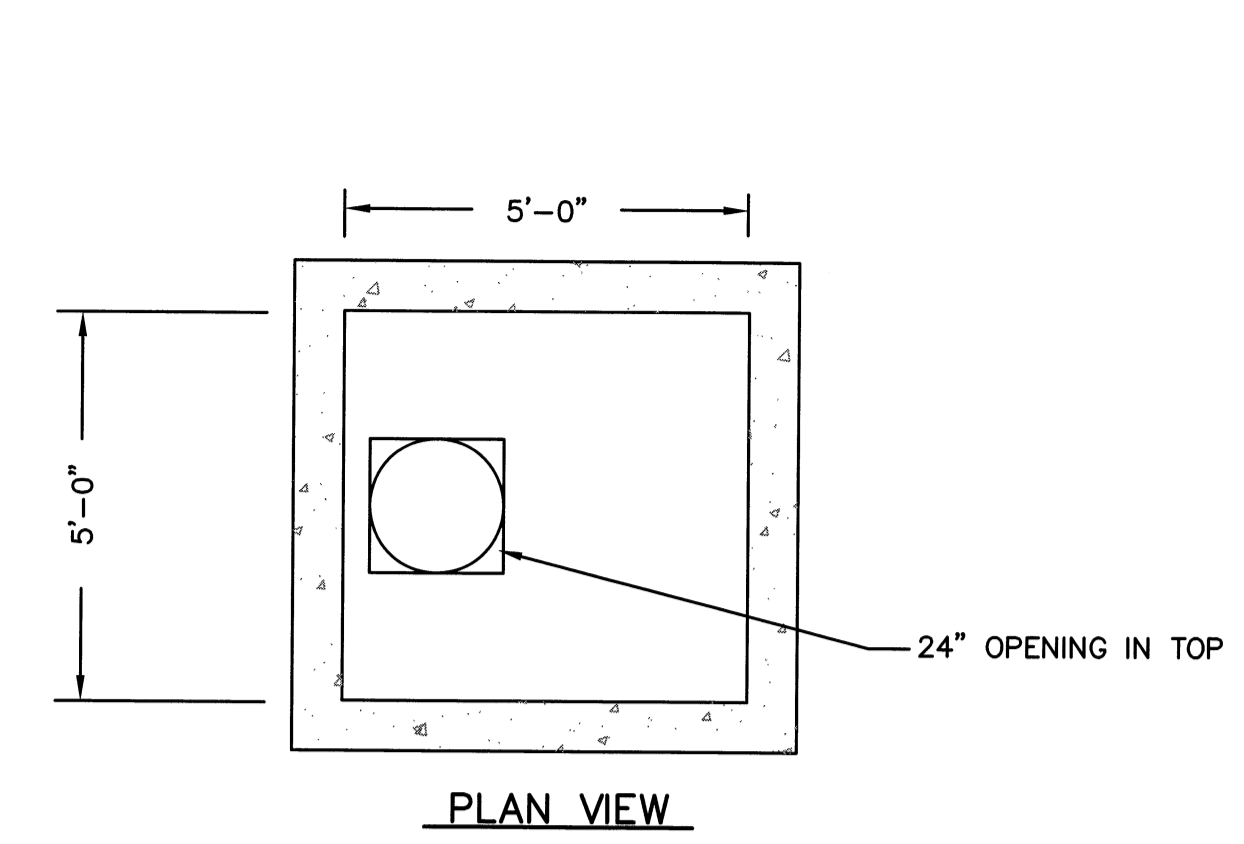
NOTES:
 1.) ONE RISER AND ONE CLEAN-OUT SHALL BE PLACED ON EVERY PIPE WITH THE EXCEPTION OF THE INLET & OUTLET PIPES WHICH SHALL HAVE CLEAN-OUTS ONLY. RISERS AND CLEAN-OUTS SHALL ALTERNATE FROM PIPE TO PIPE AS SHOWN ON THE ABOVE DETAIL.

PLAN VIEW

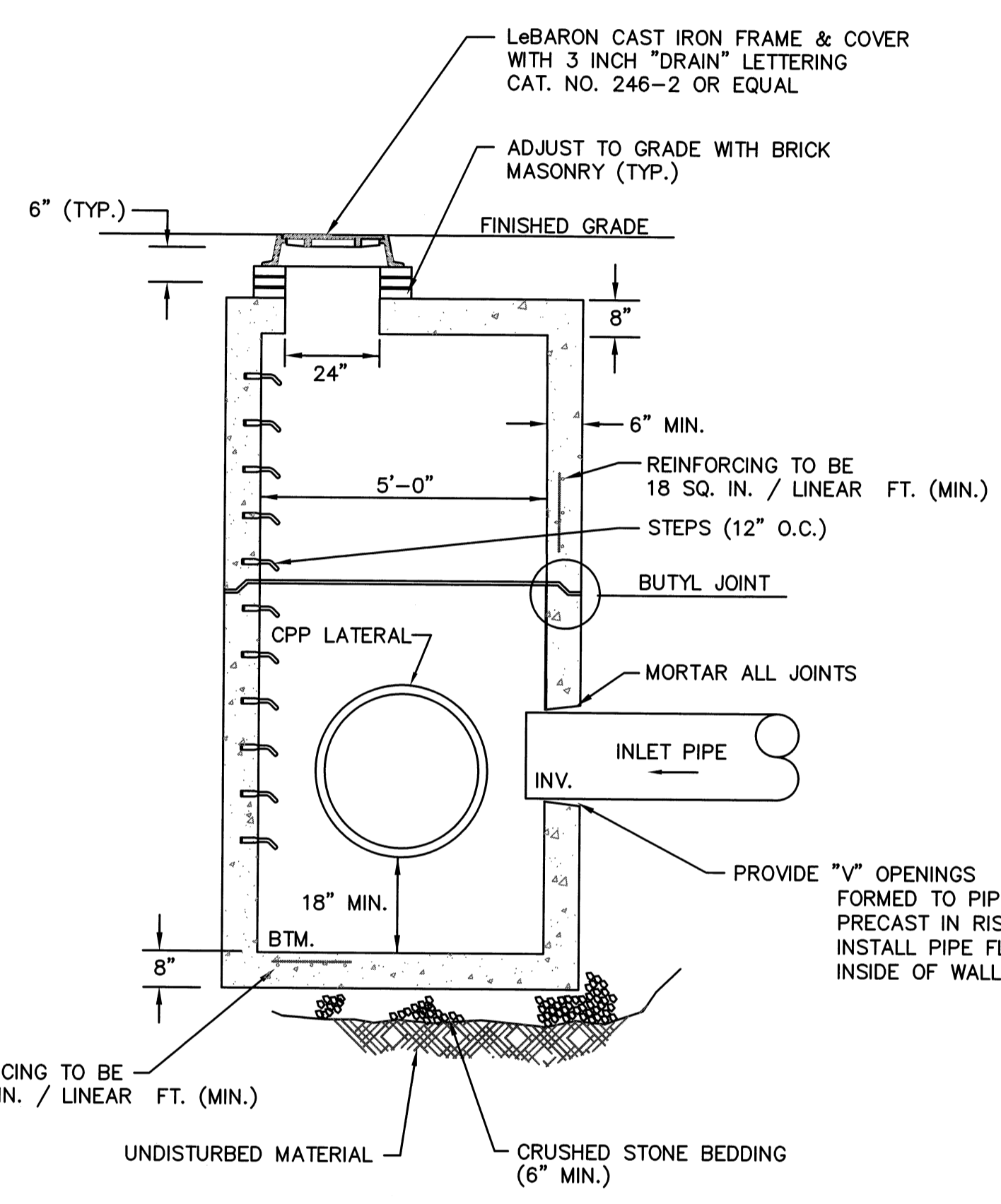


NOTES:
 1.) ALL HDPE PIPE AND FITTINGS SHALL BE ADS N-12 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR EQUAL
 2.) THE UNDERGROUND STORMWATER DETENTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.

POND-3A
 UNDERGROUND STORMWATER
 INFILTRATION SYSTEM
 N.T.S.

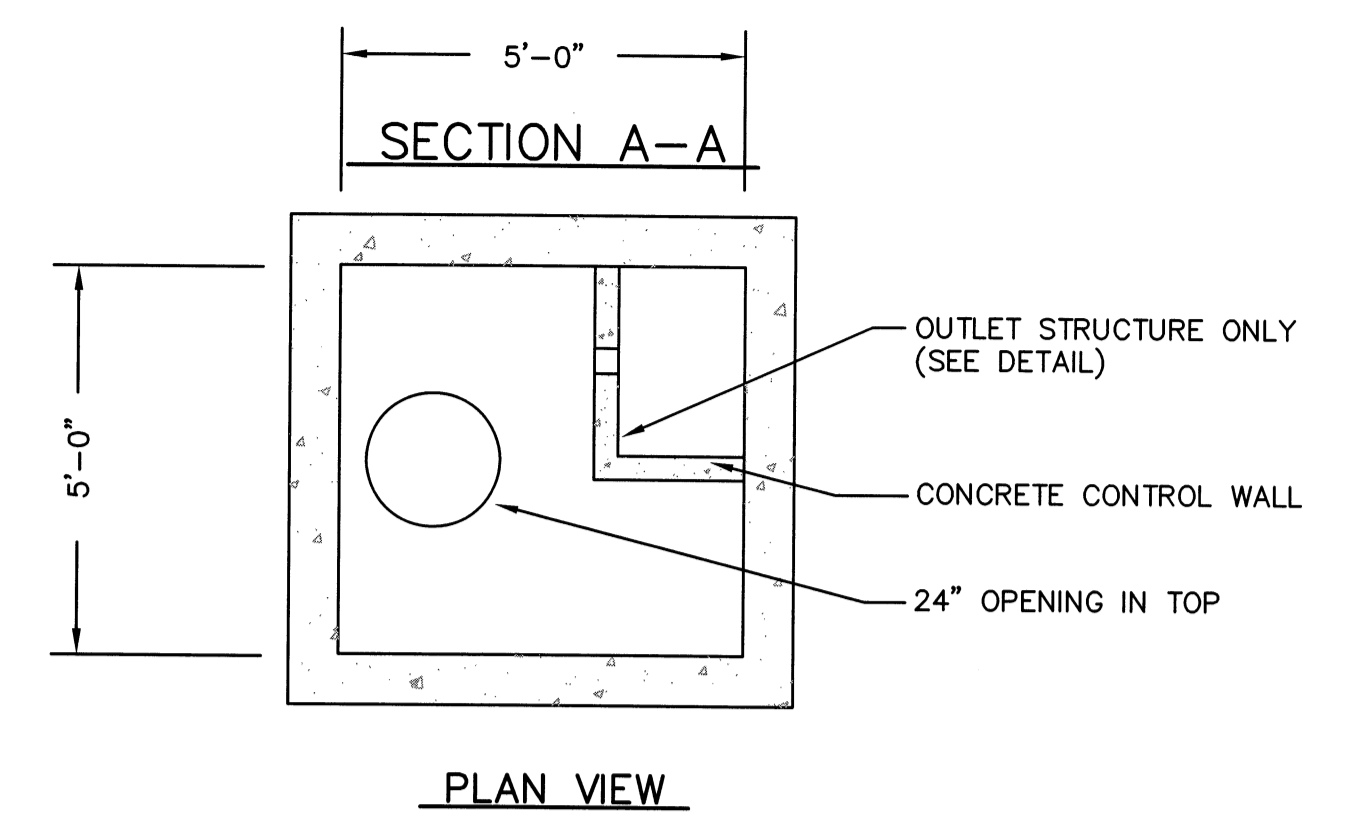


PLAN VIEW

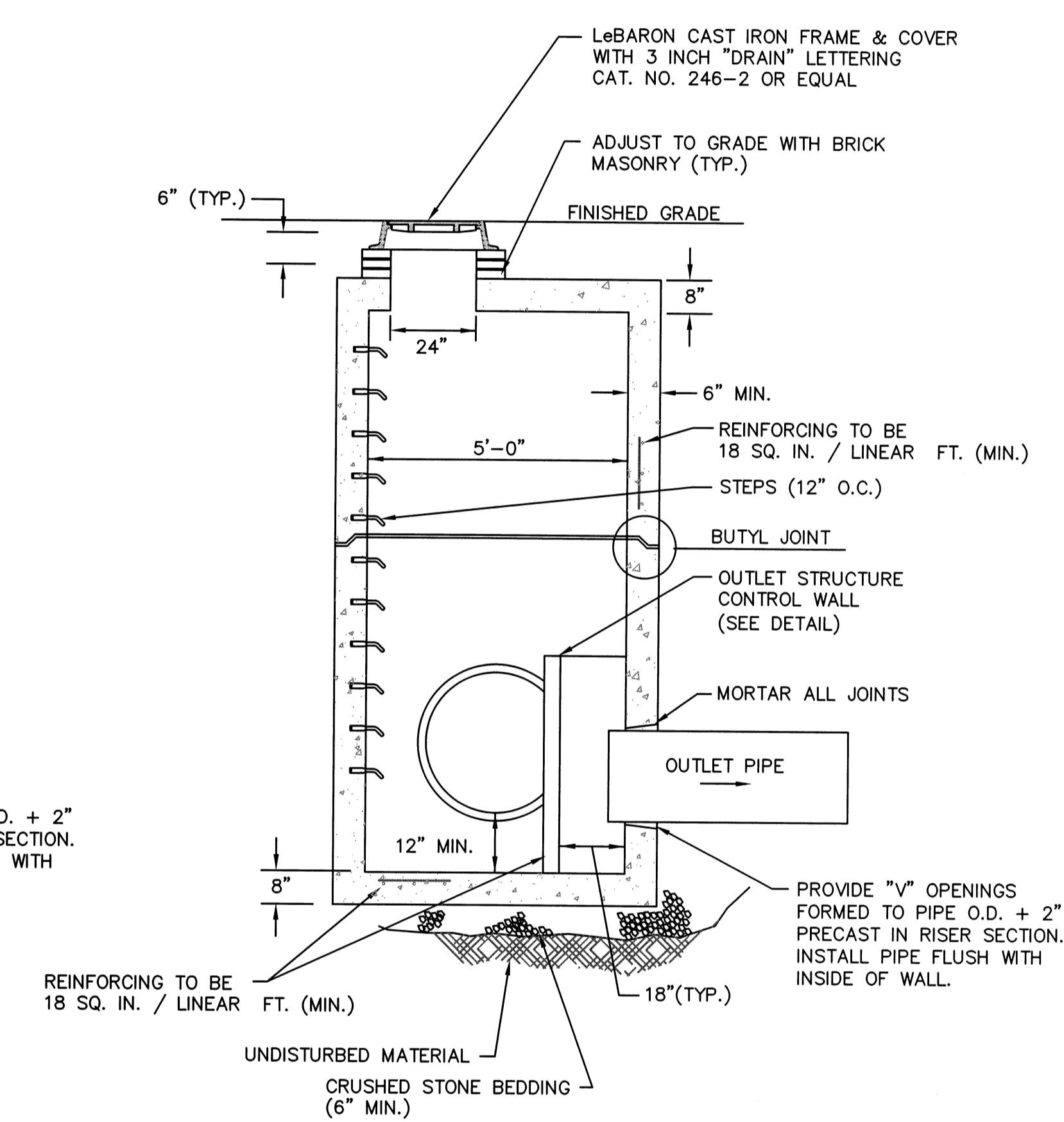


NOTES: 1.) STRUCTURES TO BE CONSTRUCTED TO WITHSTAND H-20 LOADINGS.
 2.) POSITION STEPS ON WALL OPPOSITE PIPES WHERE POSSIBLE.

POND-3A
 INFILTRATION SYSTEM
 5' X 5' PRECAST INLET STRUCTURE
 N.T.S.



PLAN VIEW



NOTES: 1.) STRUCTURES TO BE CONSTRUCTED TO WITHSTAND H-20 LOADINGS.
 2.) POSITION STEPS ON WALL OPPOSITE PIPES WHERE POSSIBLE.

POND-3A
 5' X 5' PRECAST OUTLET STRUCTURE
 N.T.S.

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|-----|----------|--|--------|
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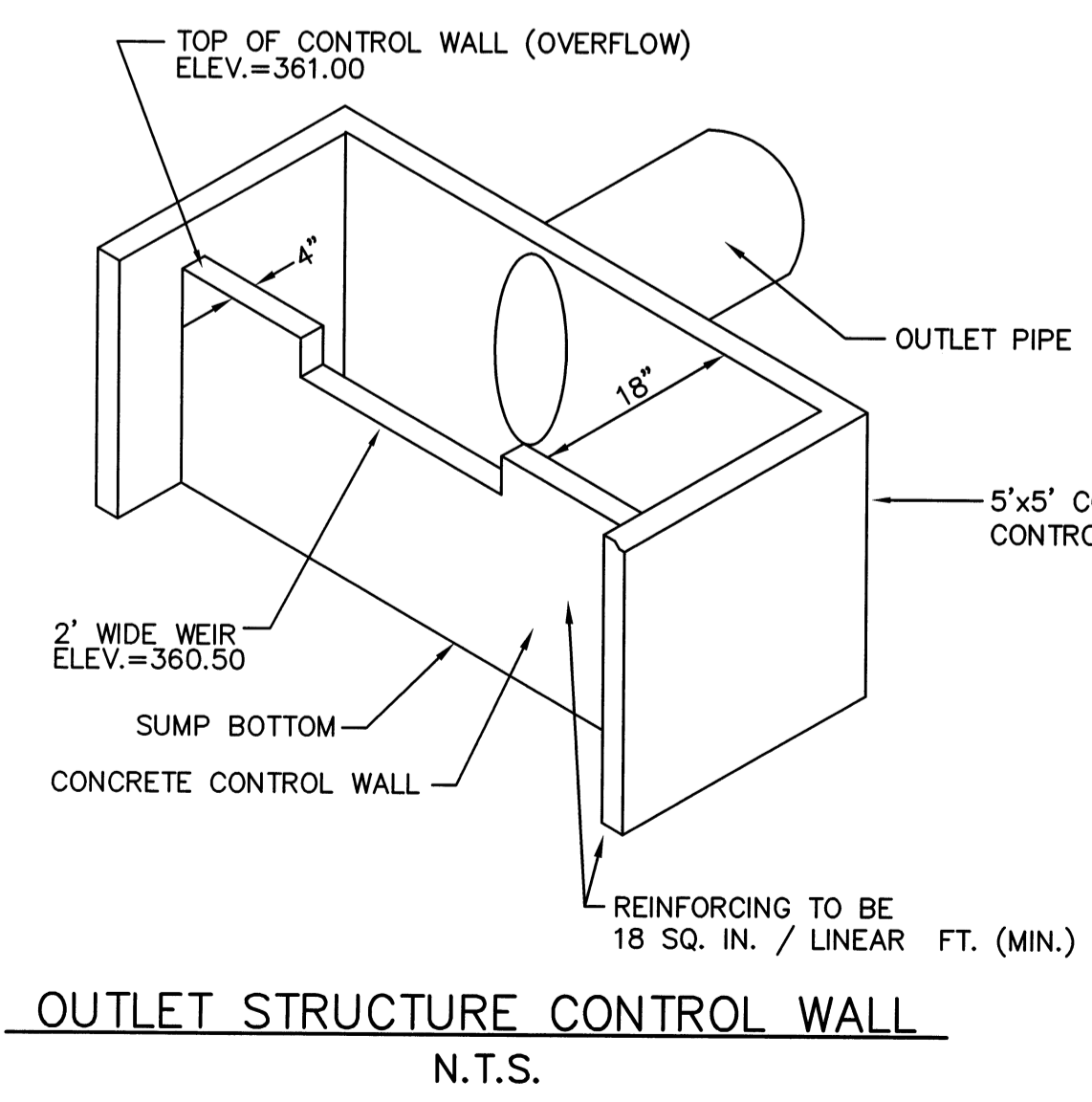
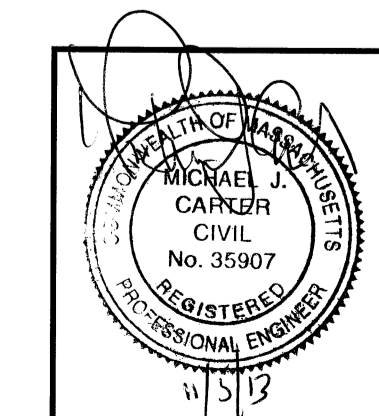
DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

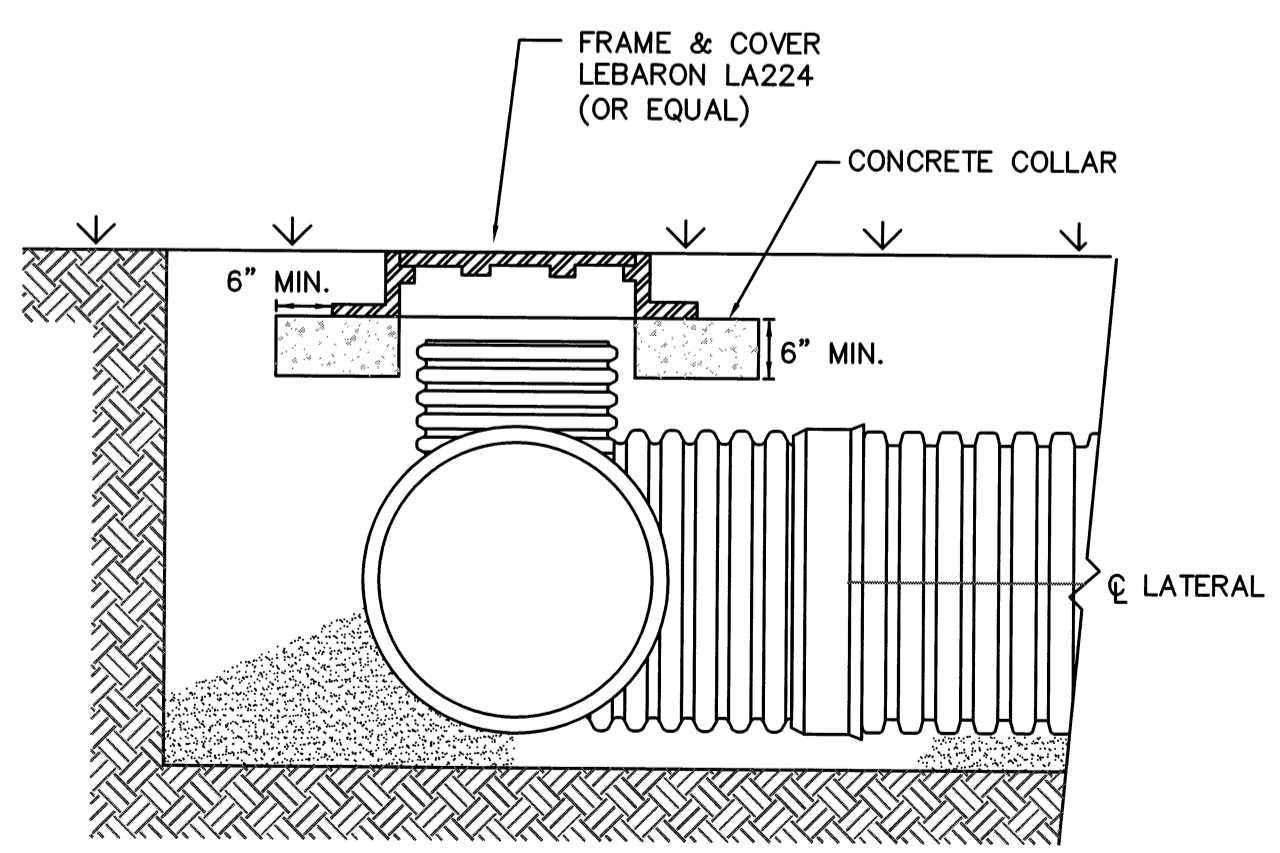
STANDARD DETAILS

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

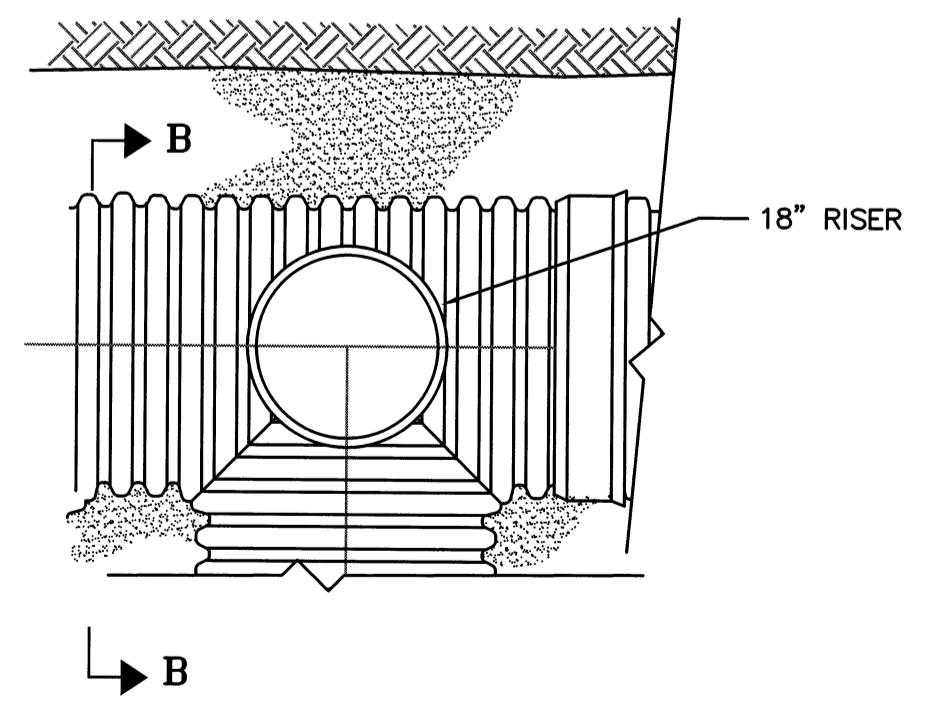
SCALE: AS NOTED DATE: JANUARY 26, 2007
 JOB NO./FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 49 of 64



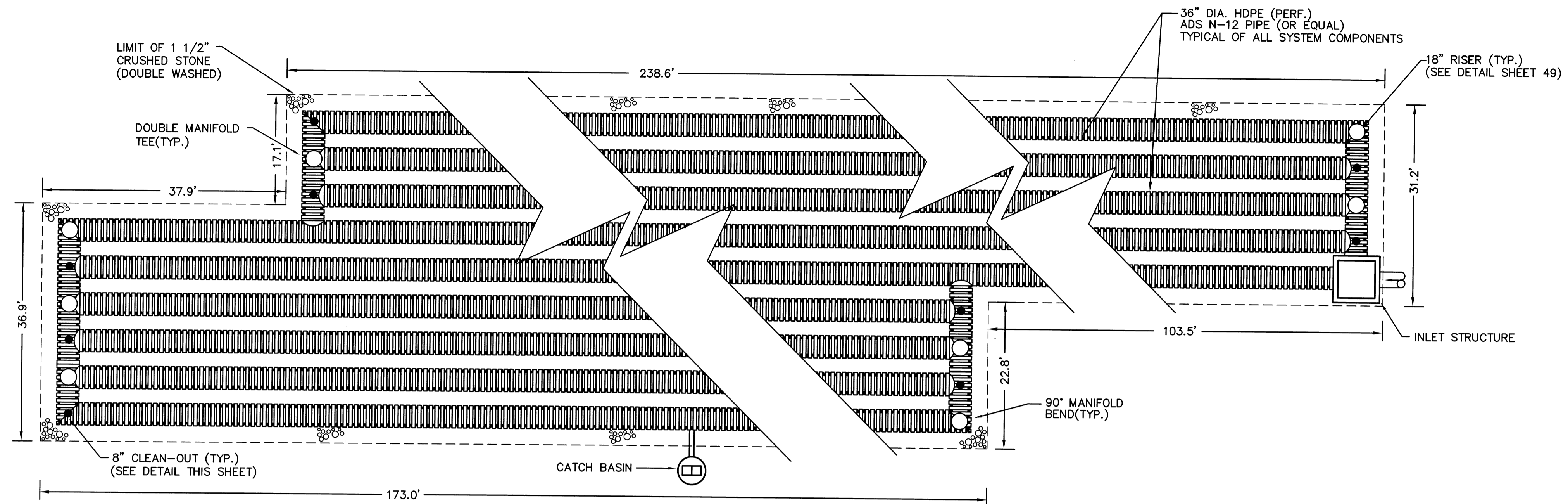
OUTLET STRUCTURE CONTROL WALL
 N.T.S.



SECTION B-B
 RISER DETAIL
 N.T.S.

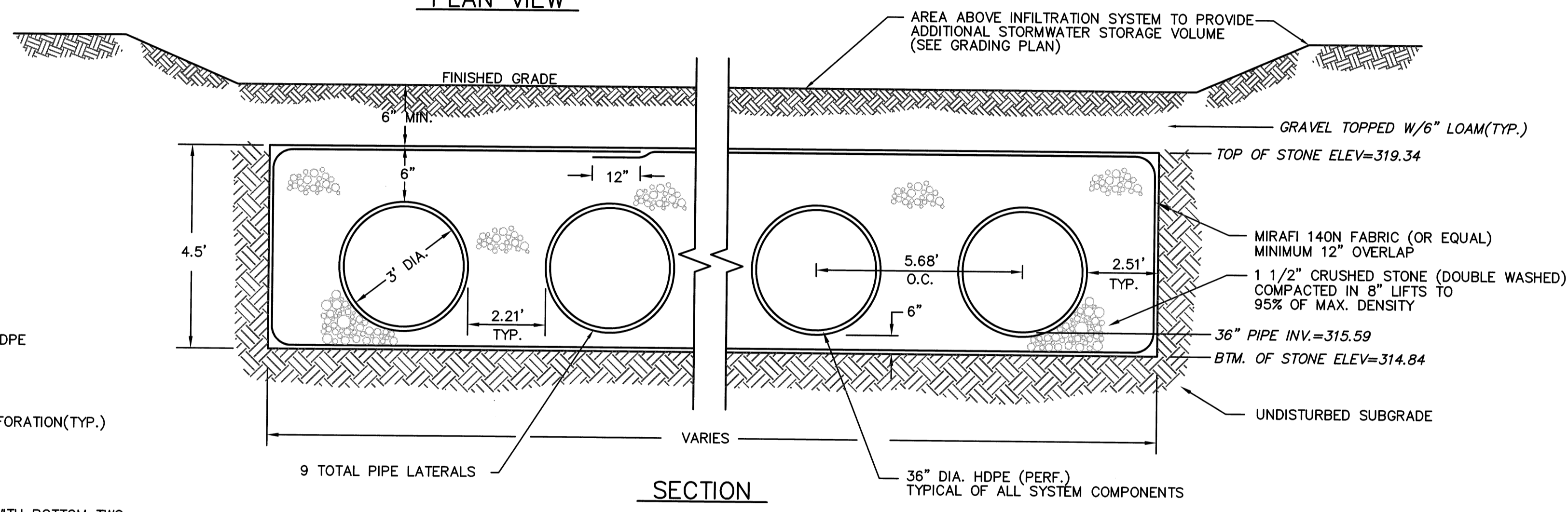


SECTION B-B
 RISER DETAIL
 N.T.S.



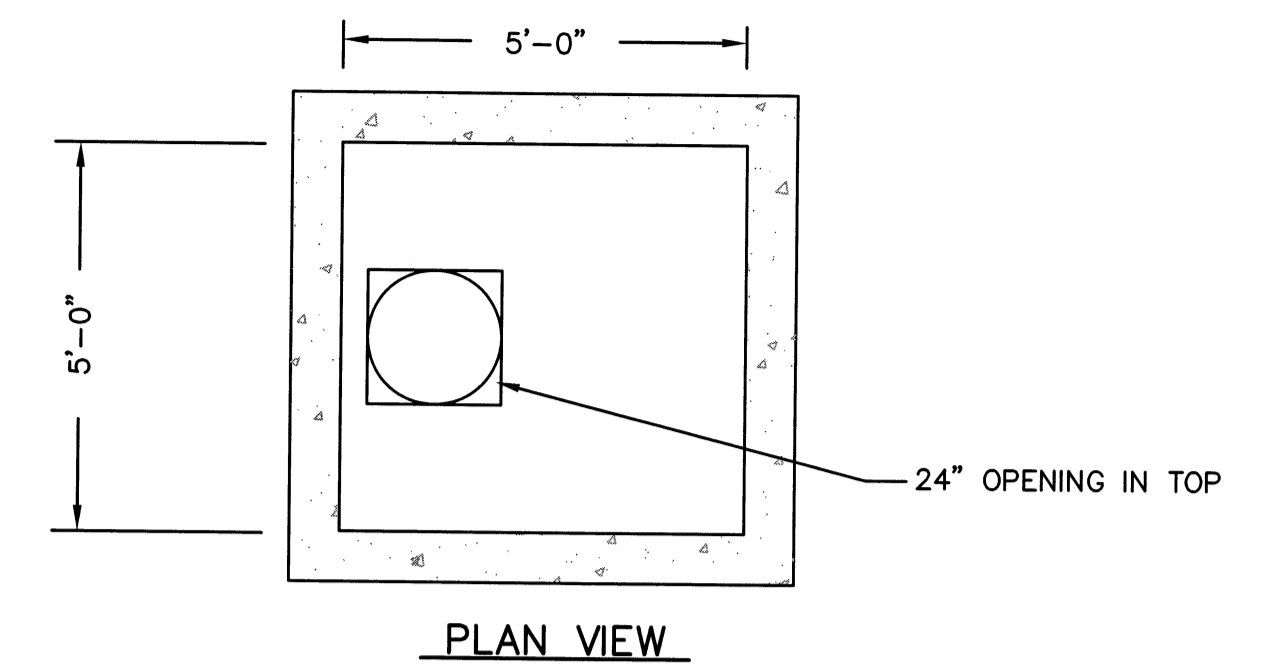
NOTES:
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PLAN VIEW

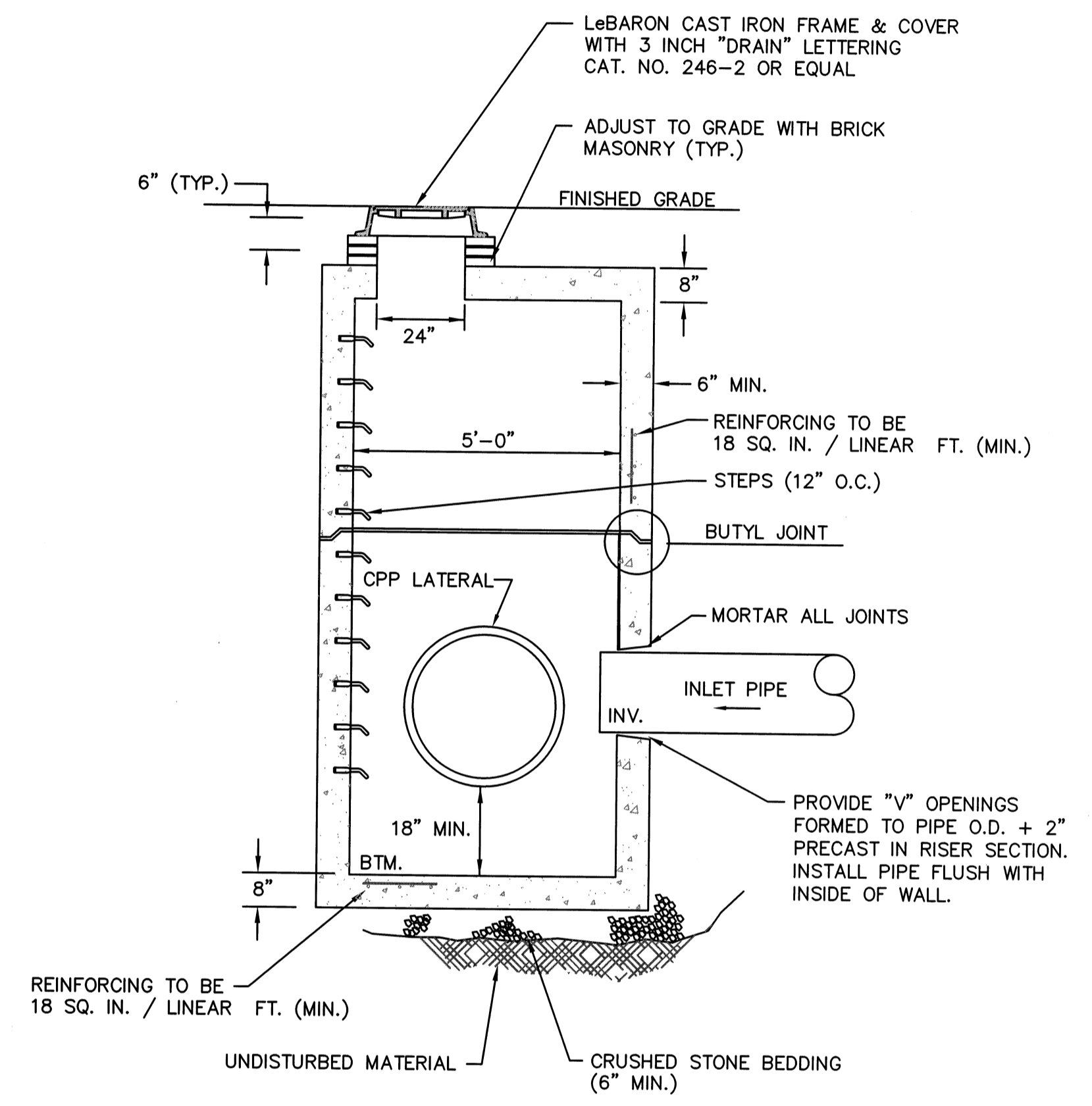


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POND-3B
 UNDERGROUND STORMWATER
 INFILTRATION SYSTEM
 N.T.S.



PLAN VIEW



NOTES: 1.) STRUCTURES TO BE CONSTRUCTED TO WITHSTAND H-20 LOADINGS.
 2.) POSITION STEPS ON WALL OPPOSITE PIPES WHERE POSSIBLE.

POND-3B
 INFILTRATION SYSTEM
 5' X 5' PRECAST INLET STRUCTURE
 N.T.S.

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DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

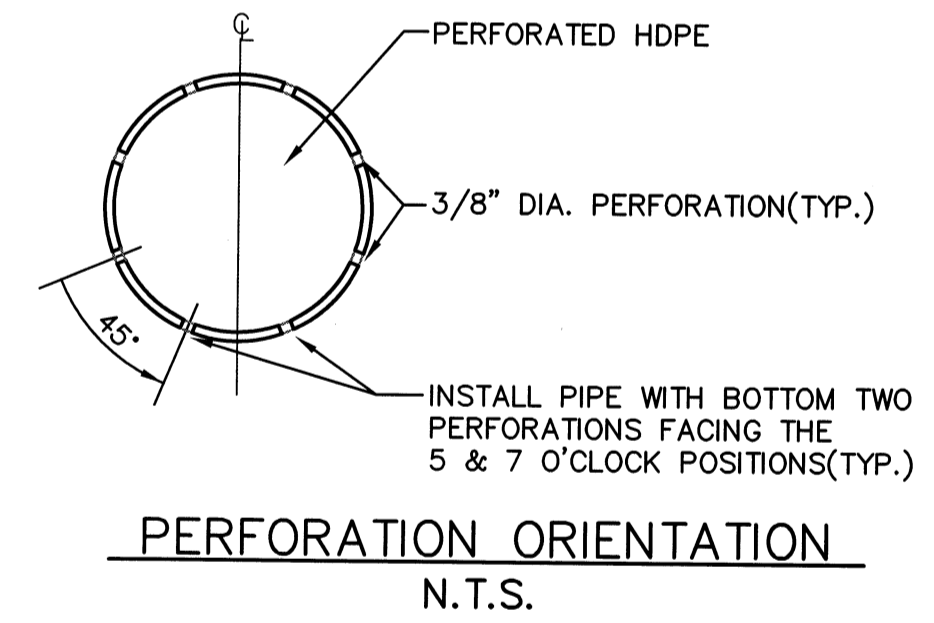
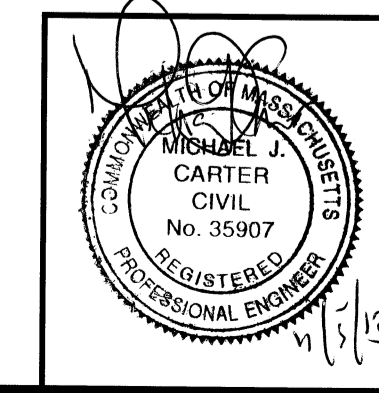
STANDARD DETAILS

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

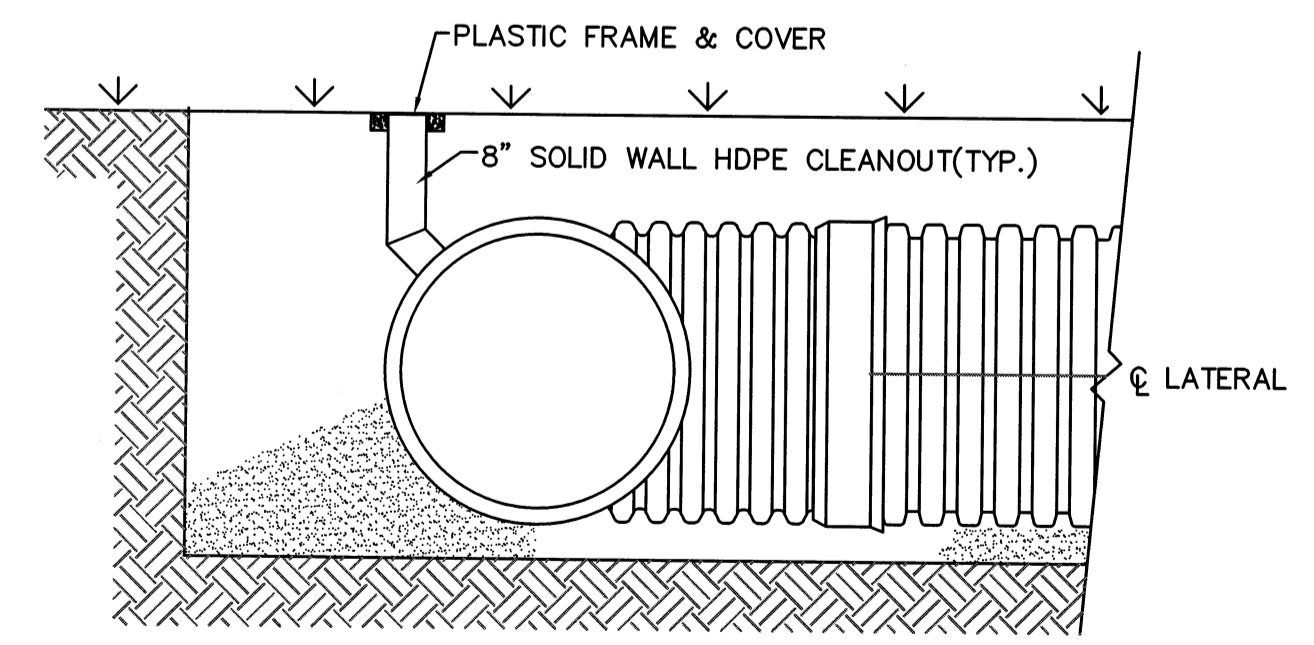
SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ DET.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
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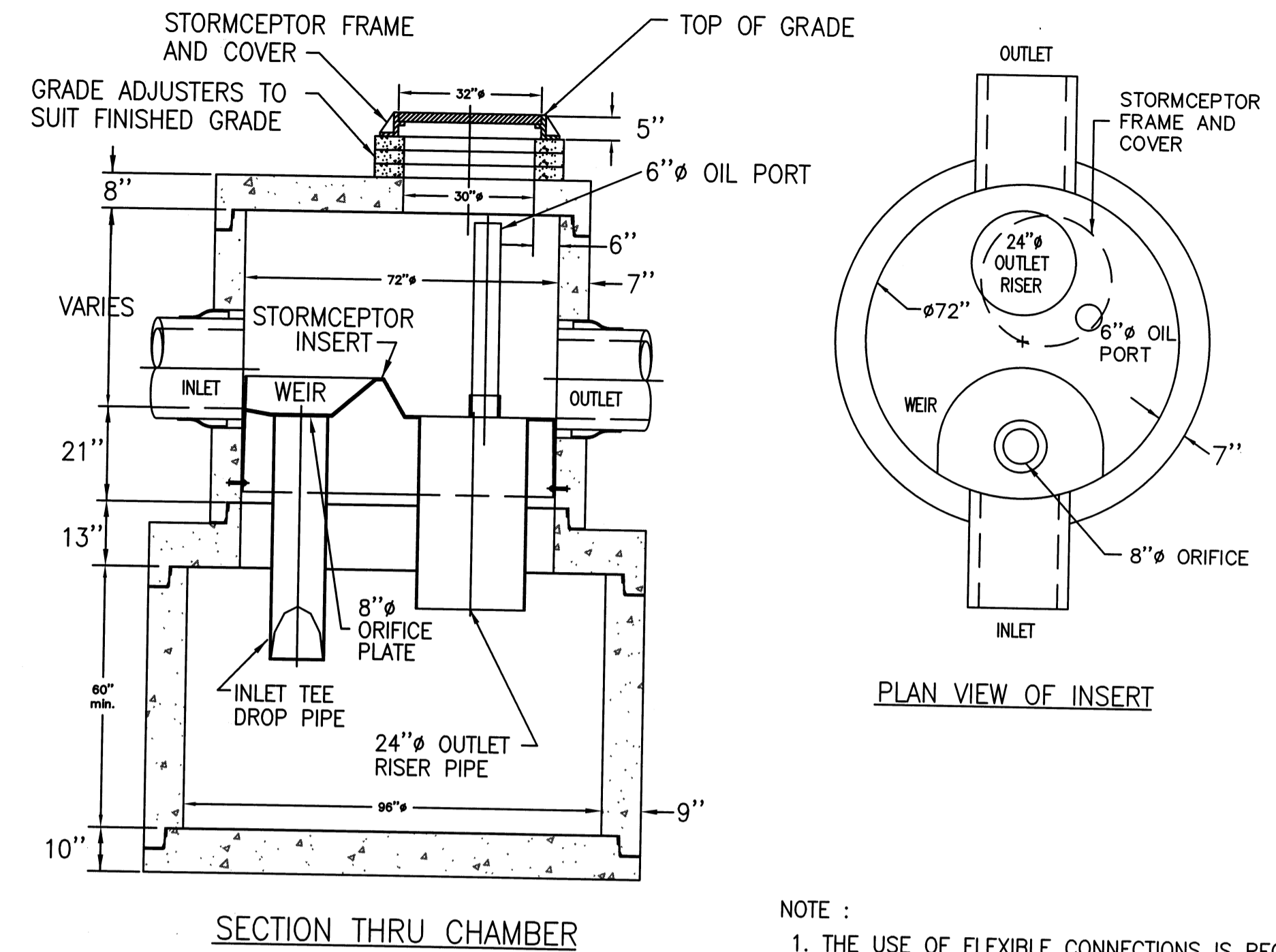
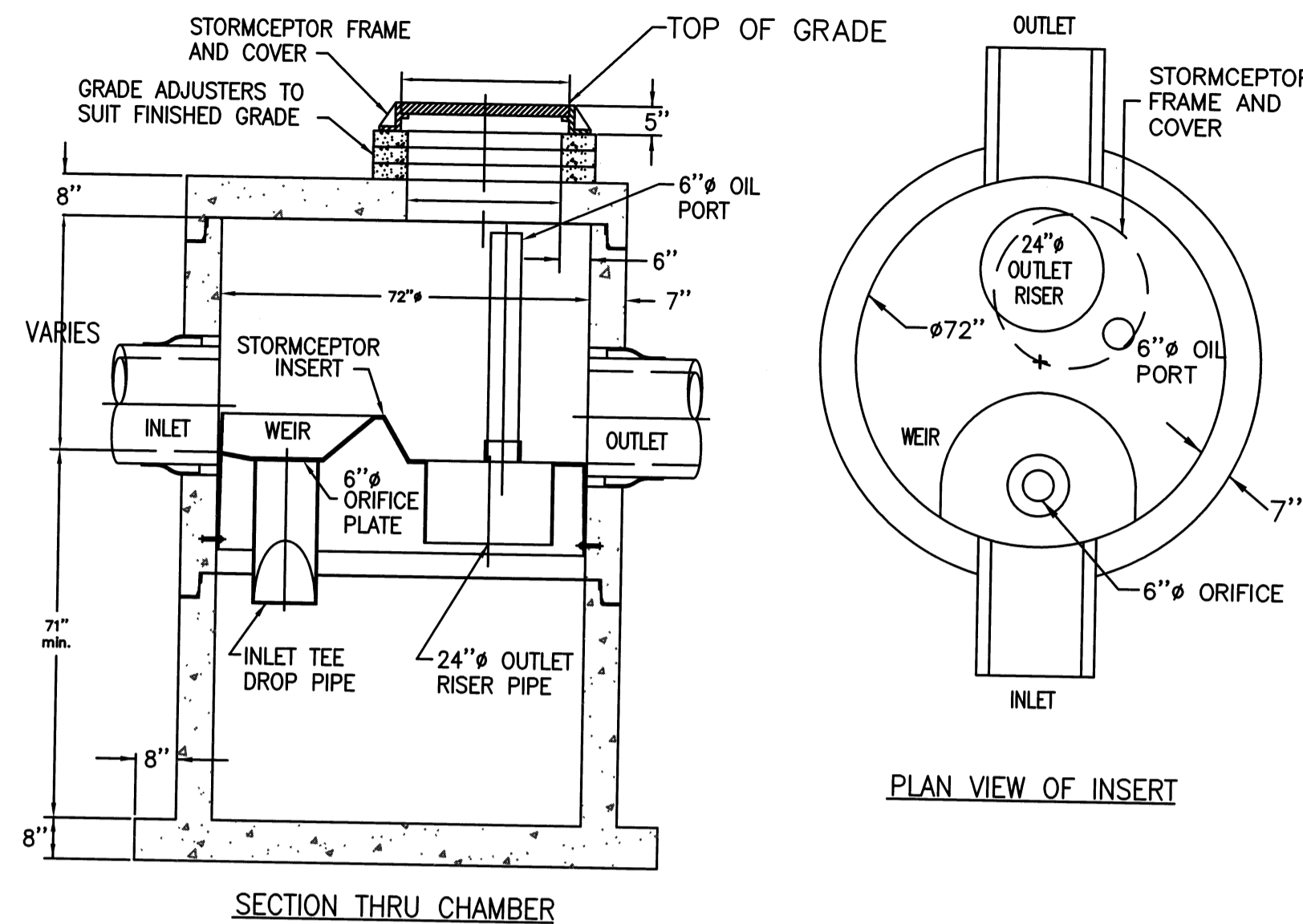
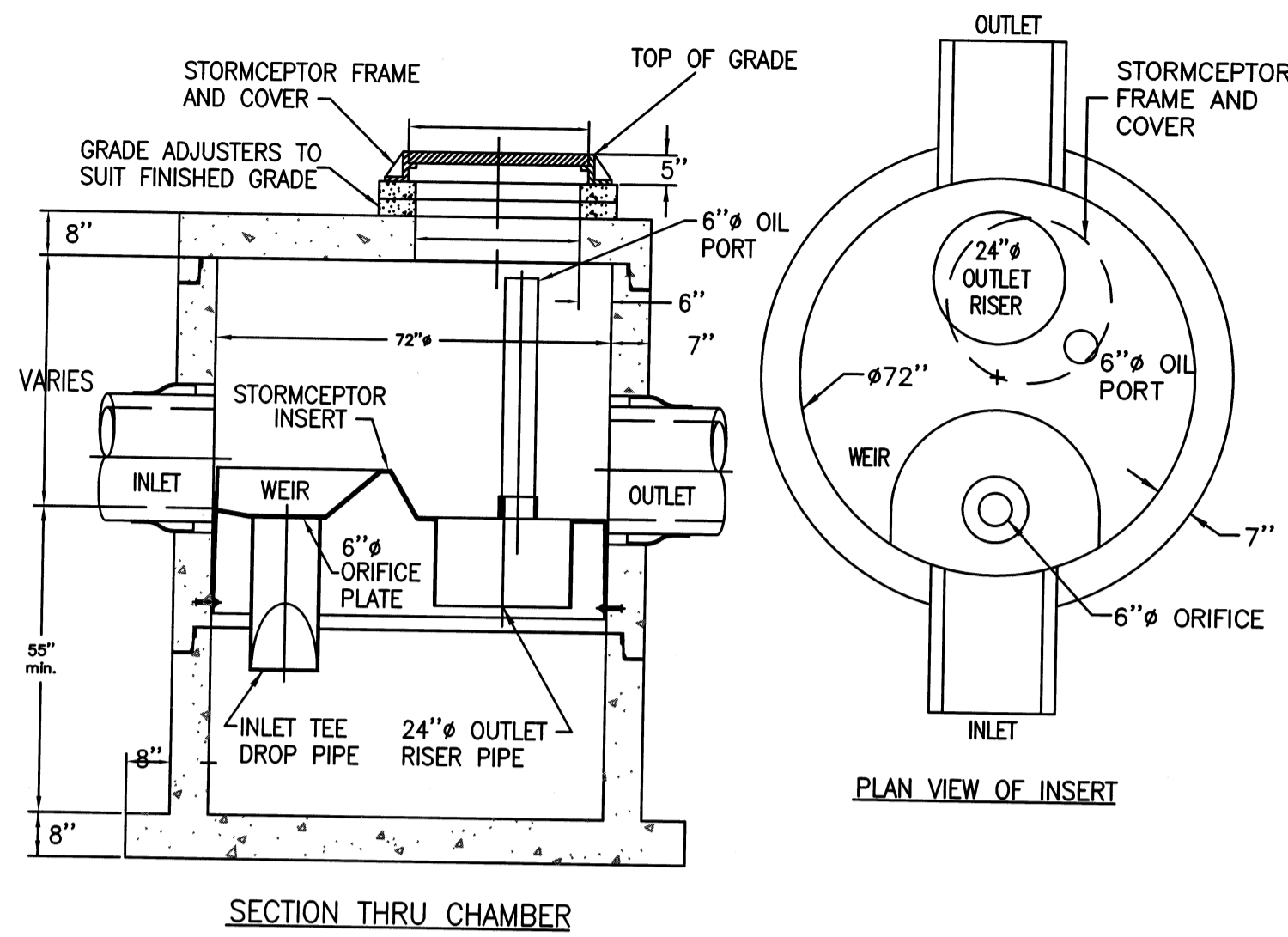
PLAN NO.
 50 OF 64



PERFORATION ORIENTATION
 N.T.S.



SECTION A-A
 CLEAN-OUT DETAIL
 N.T.S.



NOTE:
 1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 2. THE COVER SHOULD BE POSITIONED OVER THE 24" OUTLET RISER PIPE AND THE 6" OIL PORT.
 3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.

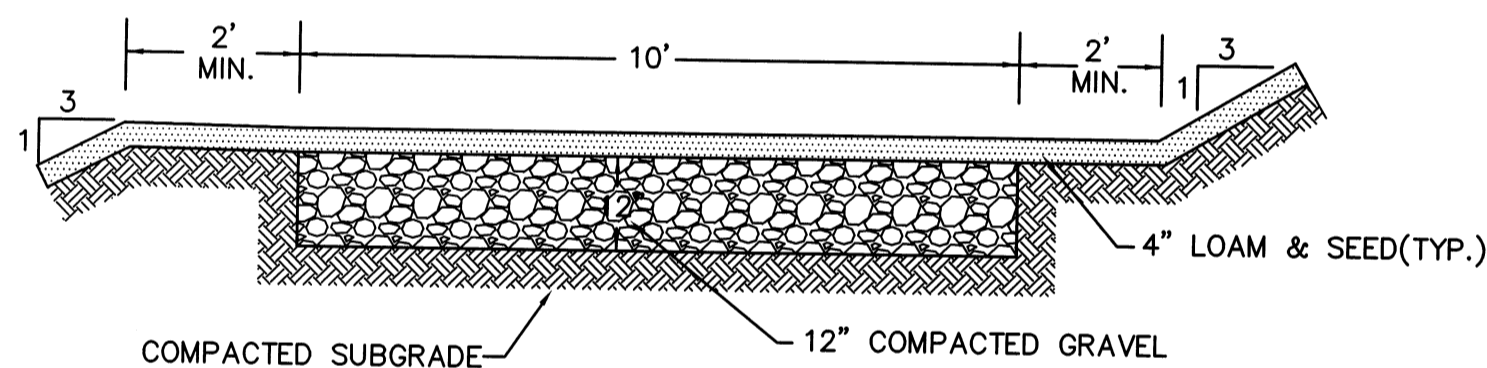
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UNITS: STC-34, STC-36 & STC-46
 STC 900 PRECAST CONCRETE STORMCEPTOR
 N.T.S.

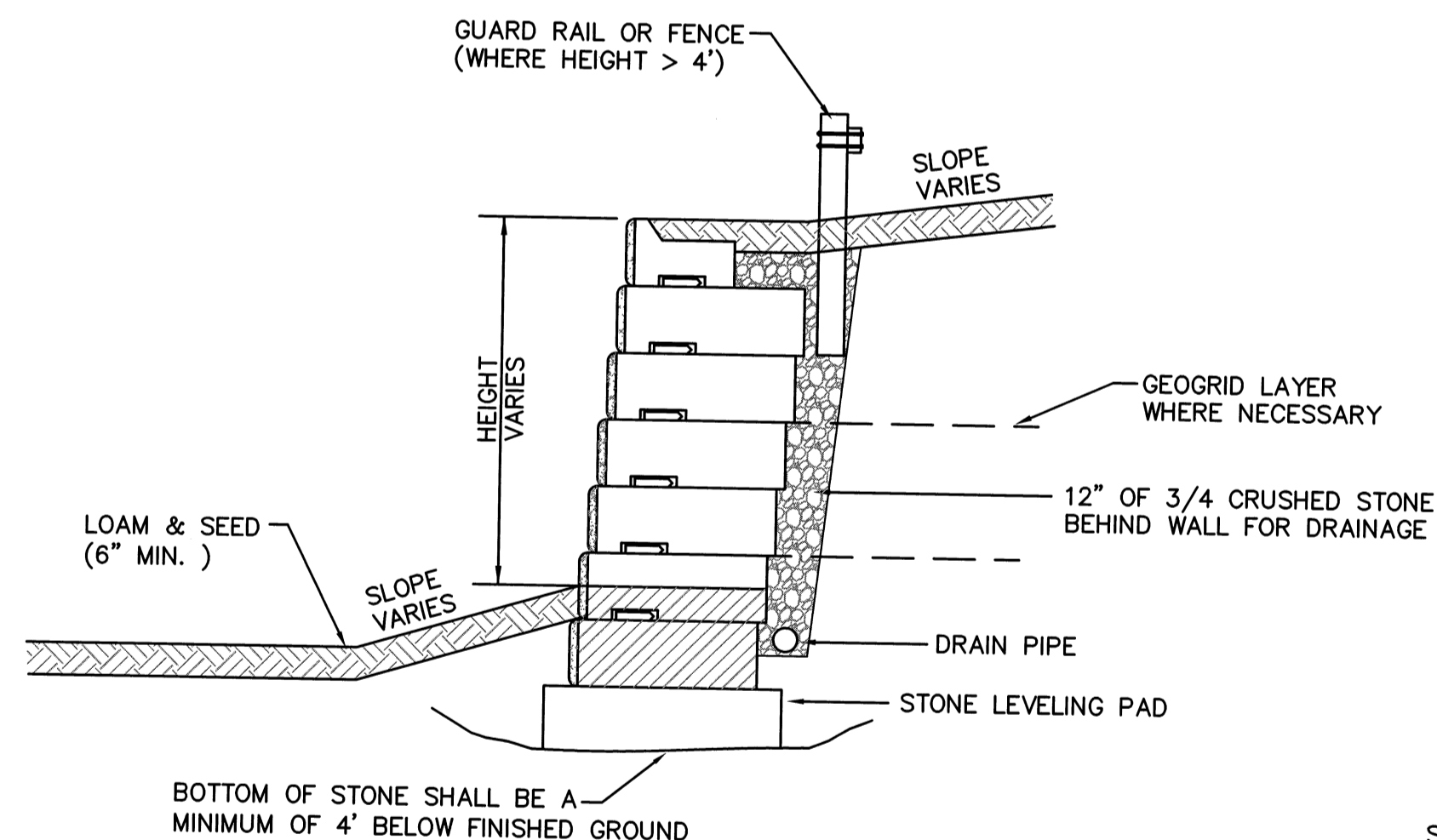
UNITS: STC-7, STC-38 & STC-40
 STC 1200 PRECAST CONCRETE STORMCEPTOR
 N.T.S.

UNIT: STC-1
 STC 2400 PRECAST CONCRETE STORMCEPTOR
 N.T.S.



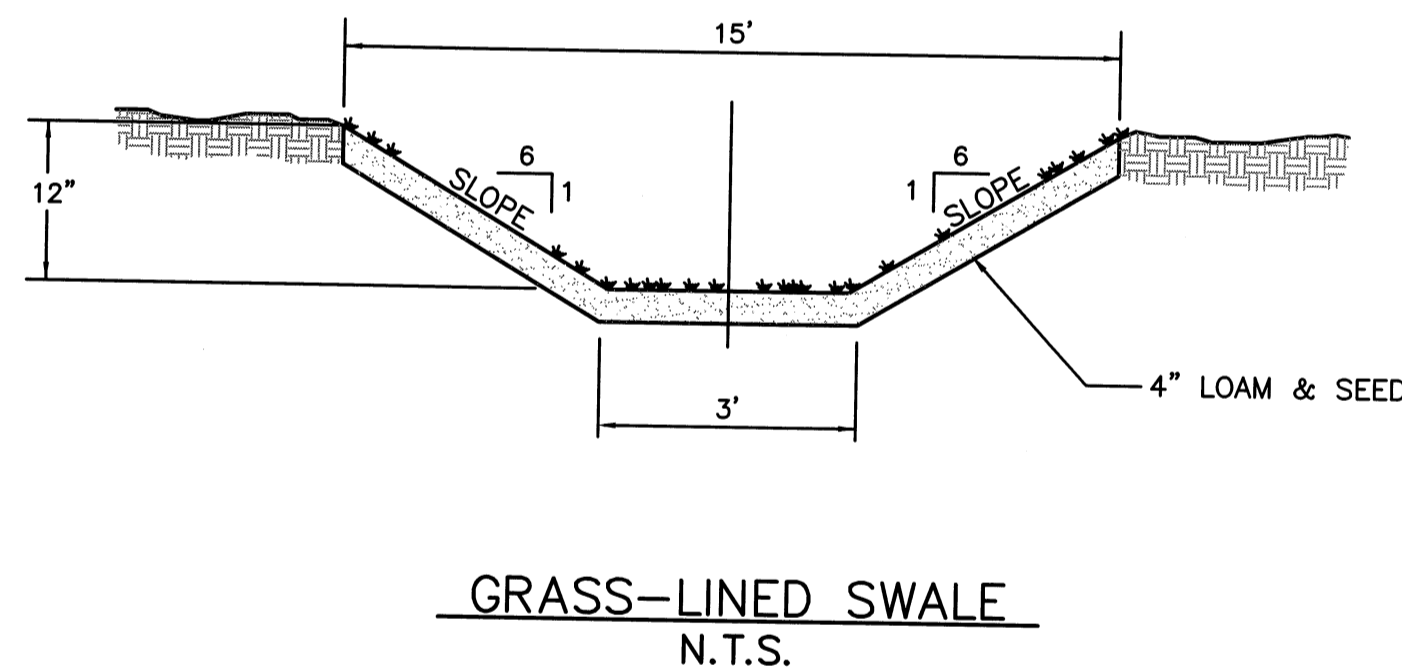
NOTES:
 1.) THE ACCESS DRIVES SHALL HAVE A MAXIMUM GRADE OF 12% TO ALLOW VEHICULAR ACCESS TO EACH BASIN.
 2.) THE ACCESS DRIVE GRADING SHOWN ON THE TOPOGRAPHY AND GRADING PLANS IS BASED ON THE ANTICIPATED FINISHED GRADES ASSOCIATED WITH THE POST DEVELOPMENT DRAINAGE DIVIDE PLANS PROVIDED IN THE SUBDIVISION'S DRAINAGE REPORT. THESE GRADES MAY BE MODIFIED AS REQUIRED BASED ON THE FINAL LOT LAYOUT AND GRADING.
 3.) IT IS ALLOWABLE TO SUBSTITUTE THE ABOVE ACCESS DRIVE DETAIL WITH A PAVED HOUSE LOT DRIVEWAY.

DETENTION BASIN ACCESS DRIVE
 N.T.S.

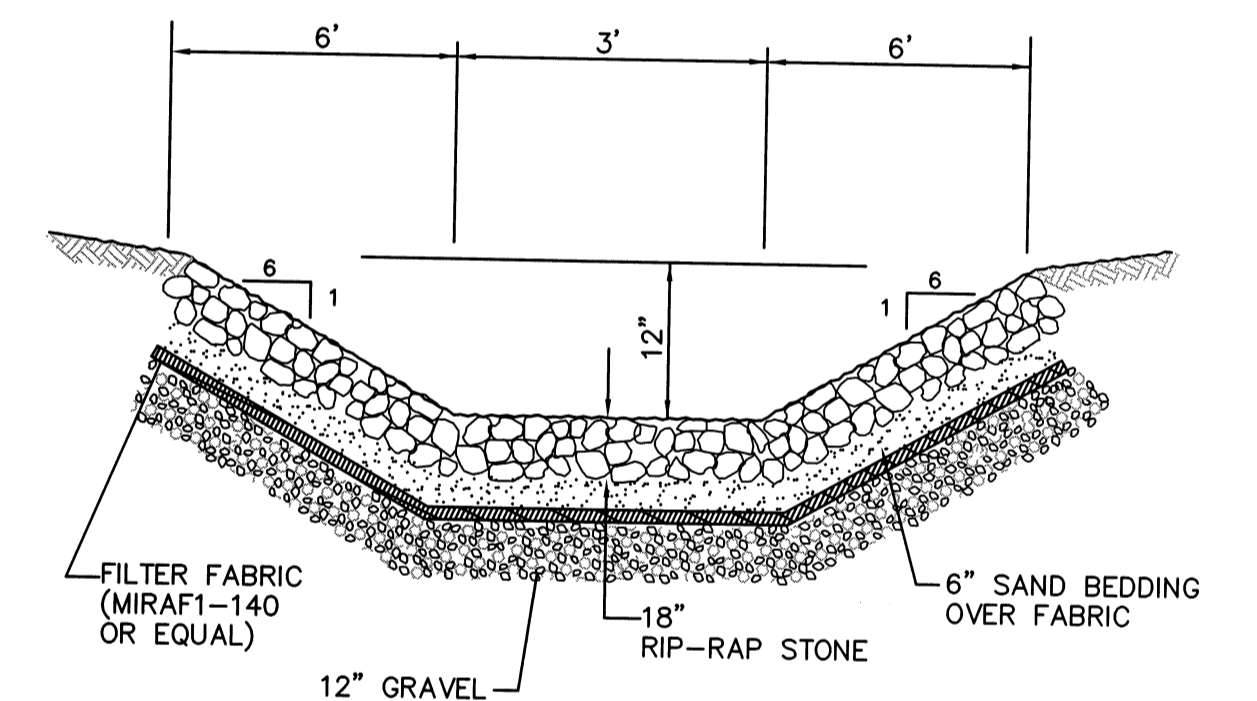


NOTES:
 1. THE WALL DETAIL SHOWN IS FOR GENERAL INFORMATION PURPOSES ONLY. WALLS SHALL BE ENGINEERED, STAMPED AND CERTIFIED BY A REGISTERED ENGINEER PRIOR TO CONSTRUCTION. FURTHERMORE, THE WALL CONSTRUCTION SHALL BE INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER. AS-BUILT PLANS OF THE CONSTRUCTED WALLS SHALL BE INCLUDED WITH THE SUBDIVISION AS-BUILT PLANS.
 2. THE MODULAR WALL UNITS SHALL BE MANUFACTURED BY REDI-ROCK (OR APPROVED EQUAL).
 3. WALL DESIGN PLANS SHALL BE SUBMITTED TO AND APPROVED BY THE PLANNING BOARD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF THESE WALLS.

MODULAR RETAINING WALL
 N.T.S.



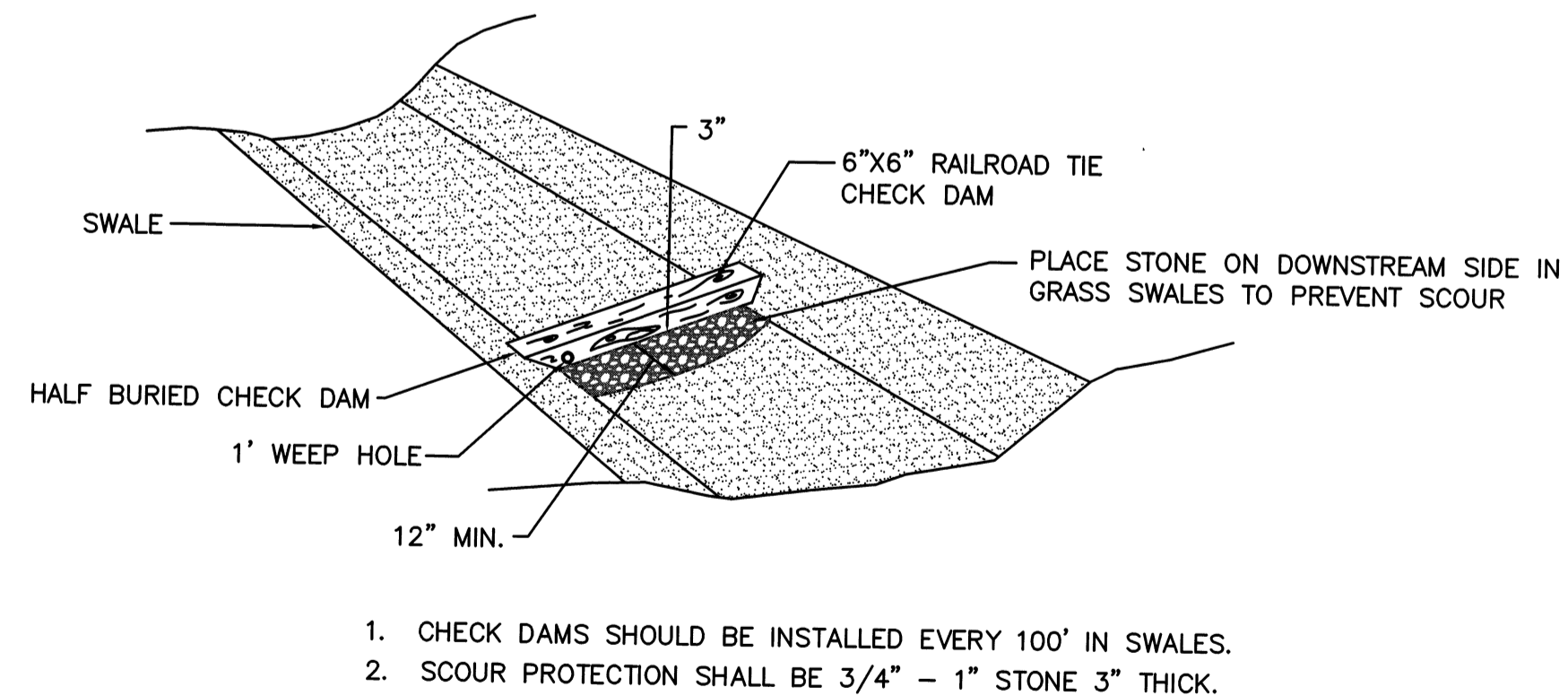
GRASS-LINED SWALE
 N.T.S.



NOTES: 1.) 60% OF THE RIP RAP SHALL BE 8" OR LARGER.
 2.) MAXIMUM RIP RAP SIZE SHALL BE 12".

RIP RAP SWALE
 N.T.S.

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|-----|----------|--|--------|
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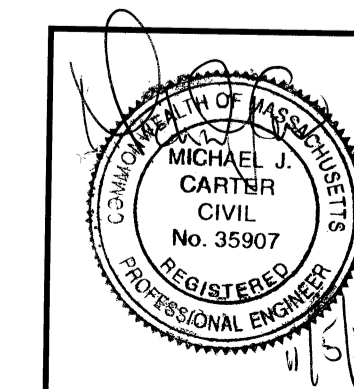
SWALE CHECK DAM
 N.T.S.

DEFINITIVE SUBDIVISION OF LAND IN BOLTON
 CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

STANDARD DETAILS

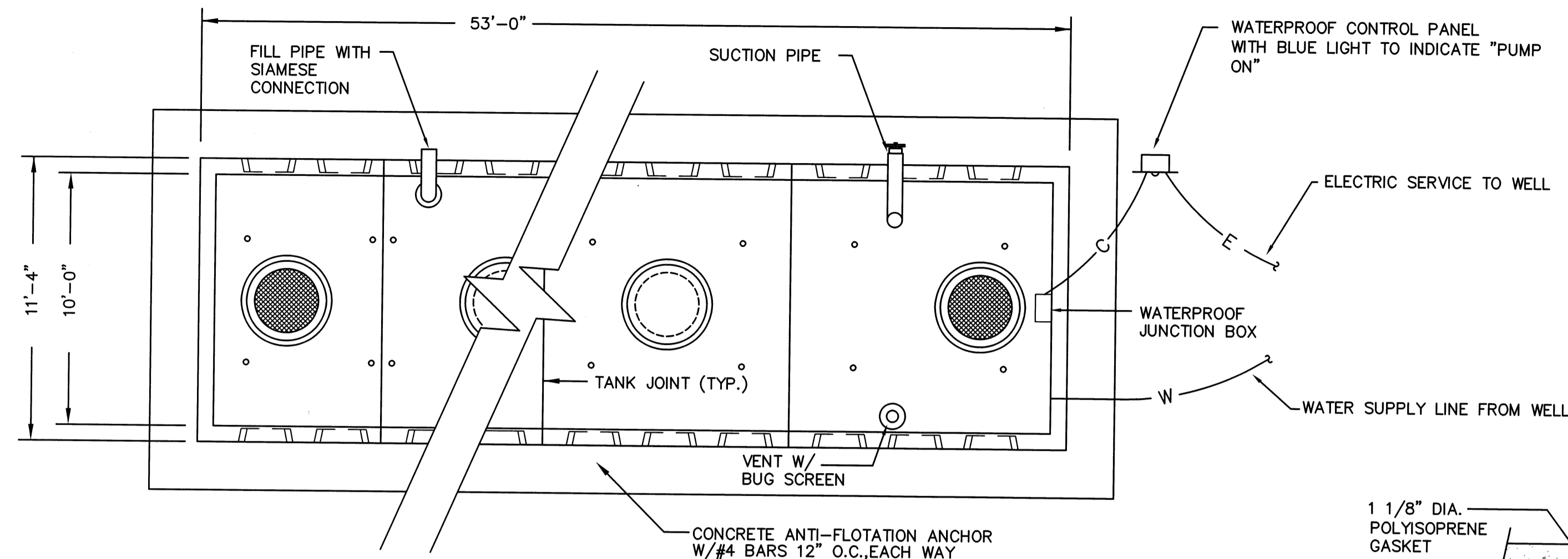
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007
 JOB NO./FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 51 of 64

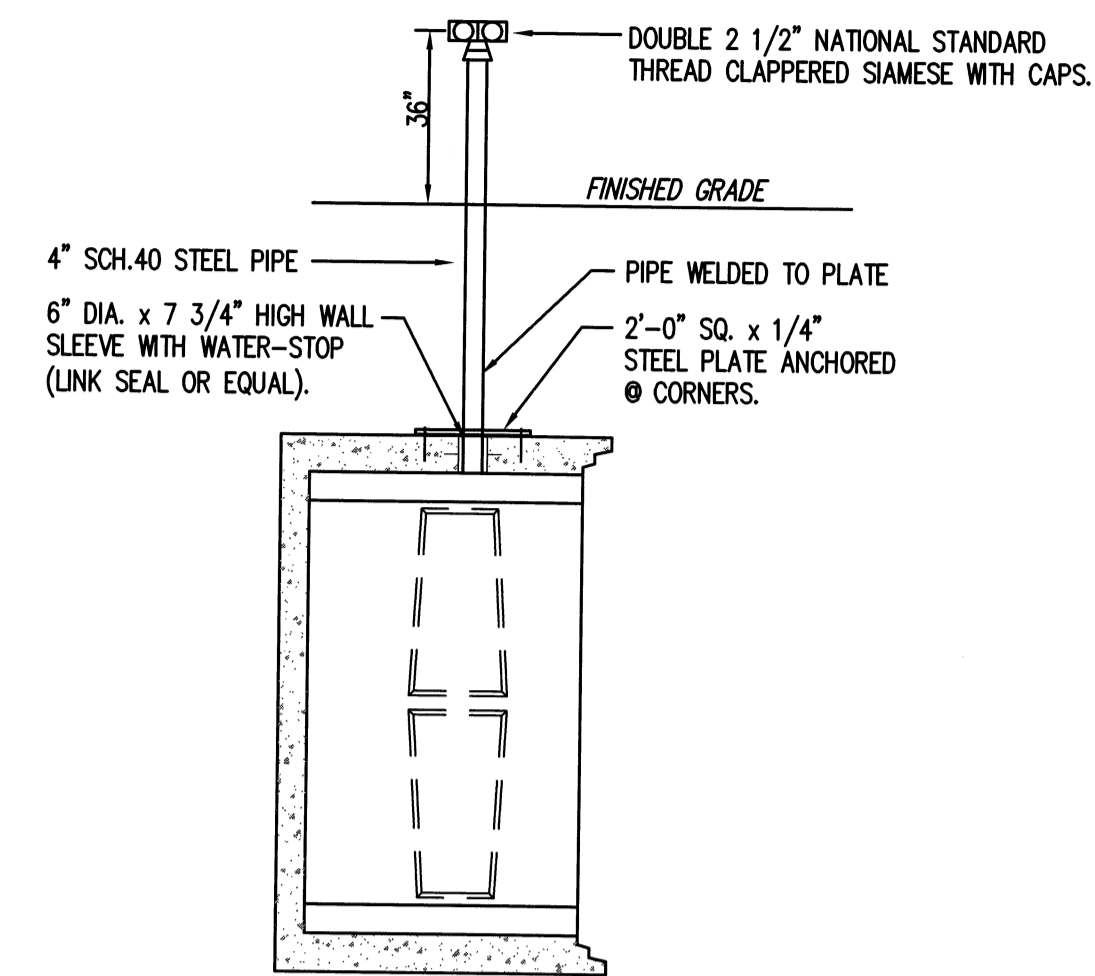


NOTE: ANY BOUND INSTALLED WITHIN PAVEMENT SHALL HAVE A CAST IRON MONUMENT FRAME AND COVER.

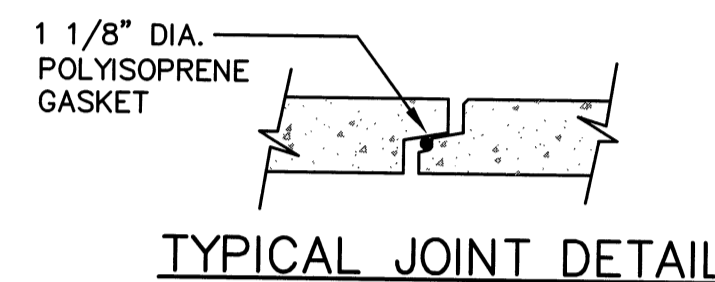
CONCRETE BOUND DETAIL
 N.T.S.



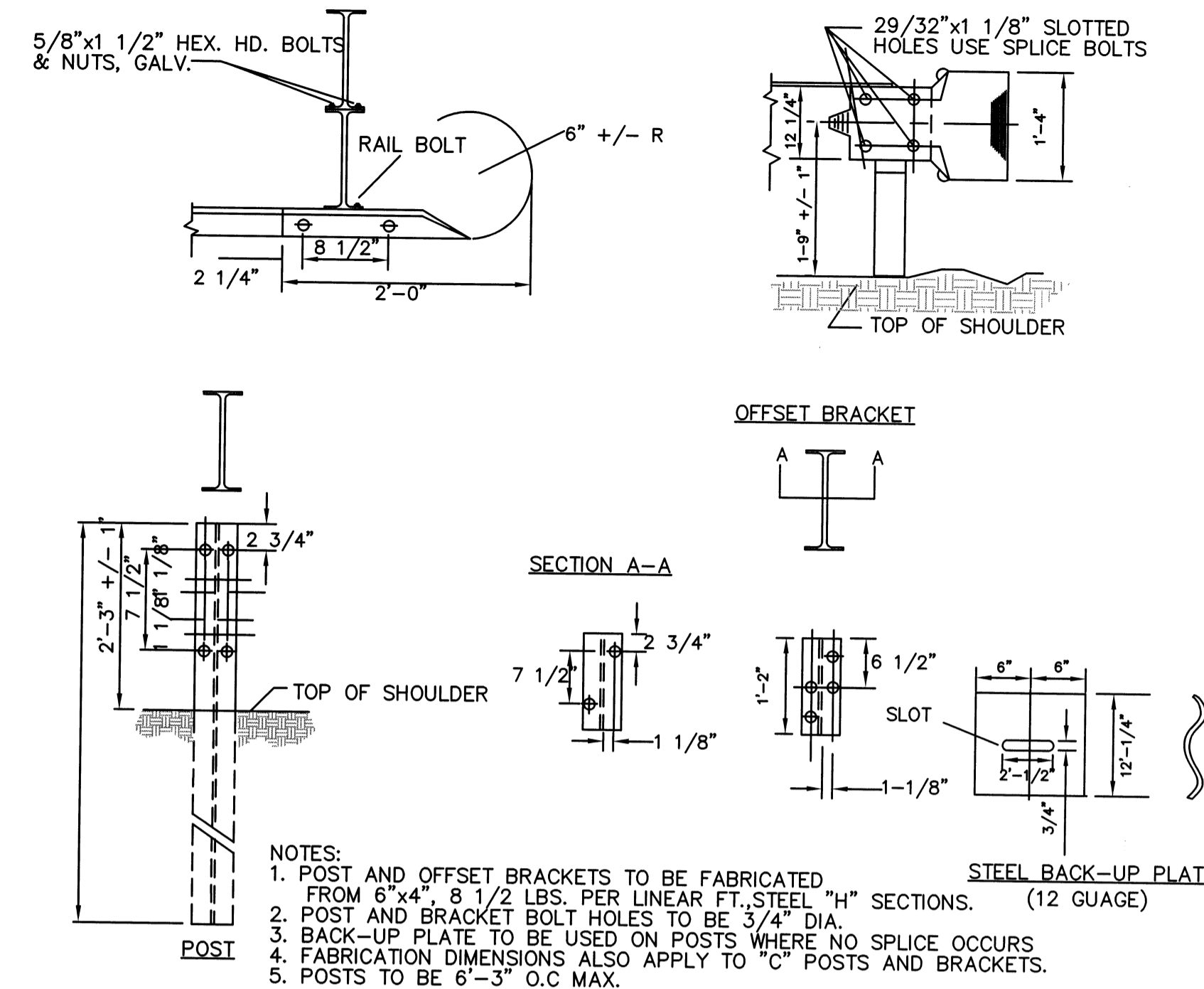
PLAN VIEW



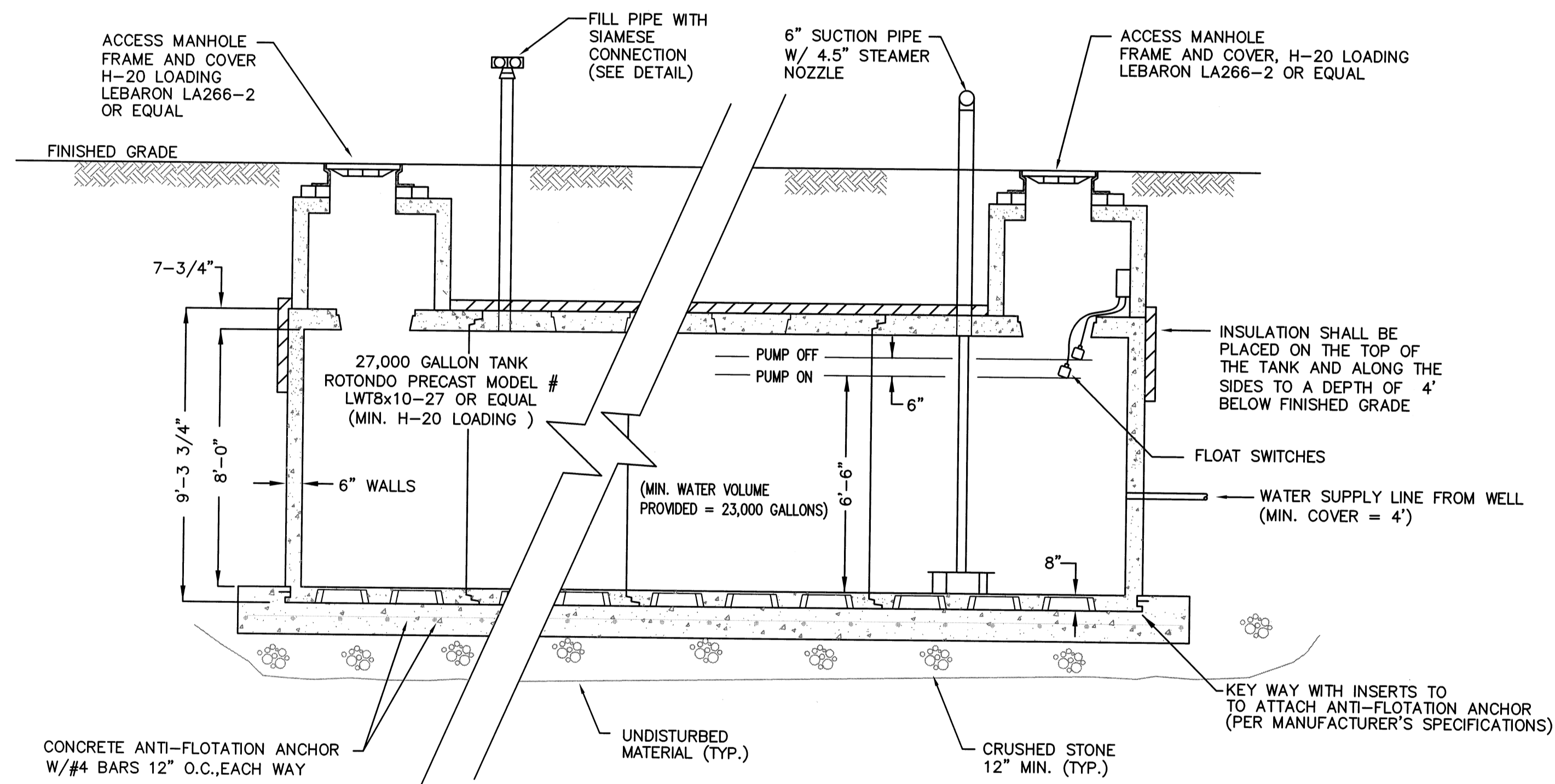
FILL PIPE DETAIL



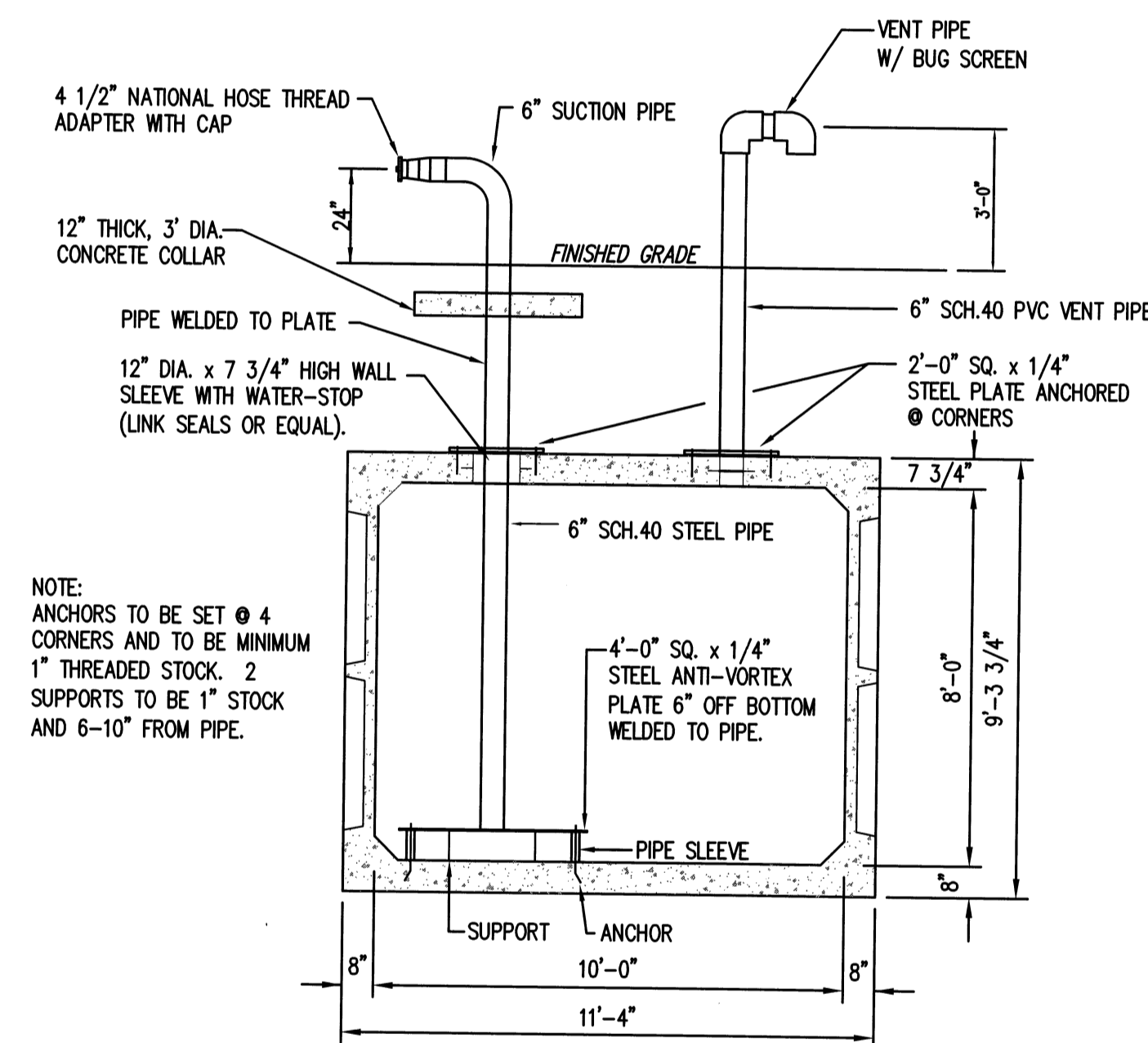
TYPICAL JOINT DETAIL



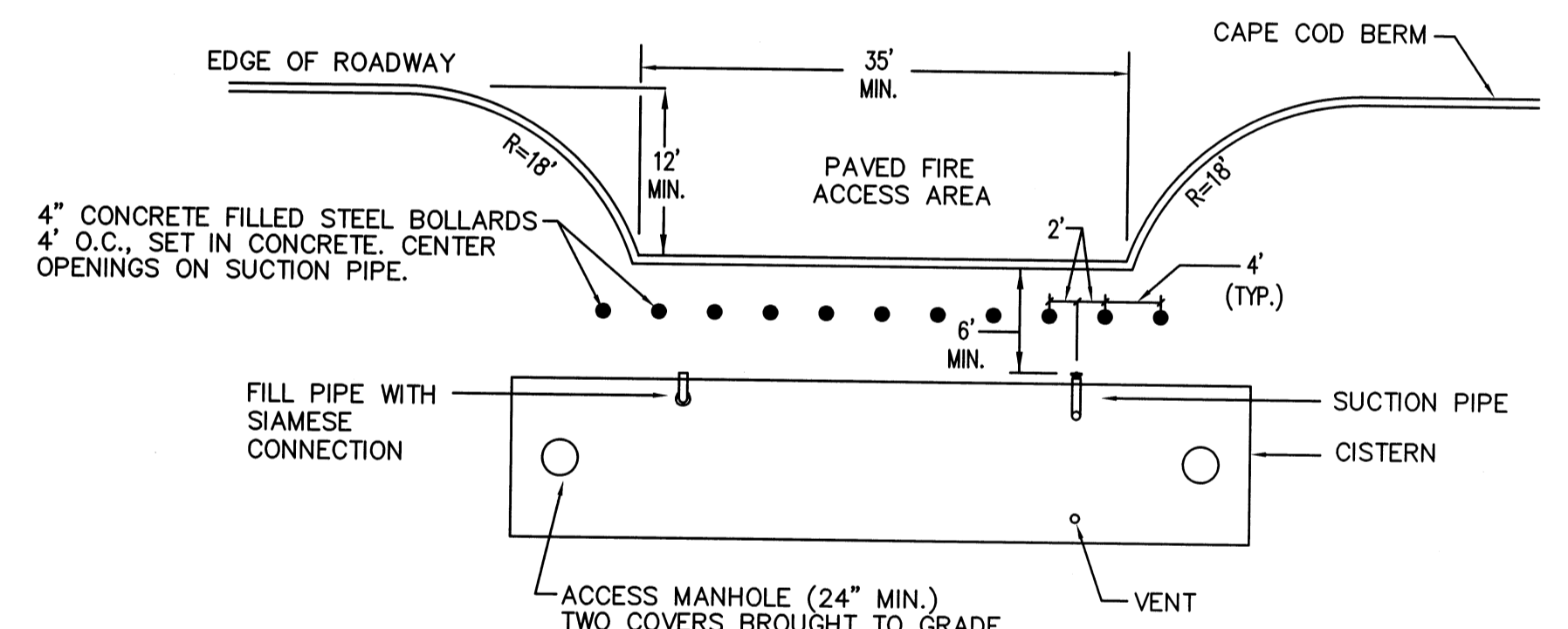
STEEL BEAM HIGHWAY GUARD TYPE SS
N.T.S.



SECTION VIEW



PIPING DETAIL



FIRE CISTERN ACCESS DETAIL

- NOTES:
1. SIZE OF ANTI-FLOTATION ANCHOR SHALL BE DETERMINED PRIOR TO CONSTRUCTION BASED ON SOIL CONDITIONS.
 2. LOCATION OF FILL PIPE, SUCTION PIPE AND VENT VARY DEPENDING ON THE LOCATION AND ORIENTATION OF THE CISTERN. THEIR LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION WITH APPROVAL FROM THE BOLTON FIRE DEPARTMENT. AT A MINIMUM THE FILL AND SUCTION PIPES SHALL BE ACCESSIBLE FROM THE ROADWAY AND FIRE ACCESS AREA.
 3. THE SUCTION PIPE AND FILL PIPES SHALL BE PROTECT BY BOLLARDS.

FIRE CISTERN & DRY HYDRANT DETAIL
N.T.S.

N.T.S.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
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| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

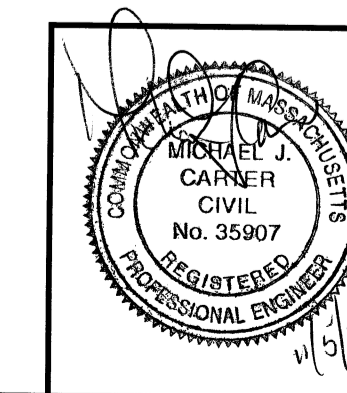
STANDARD DETAILS

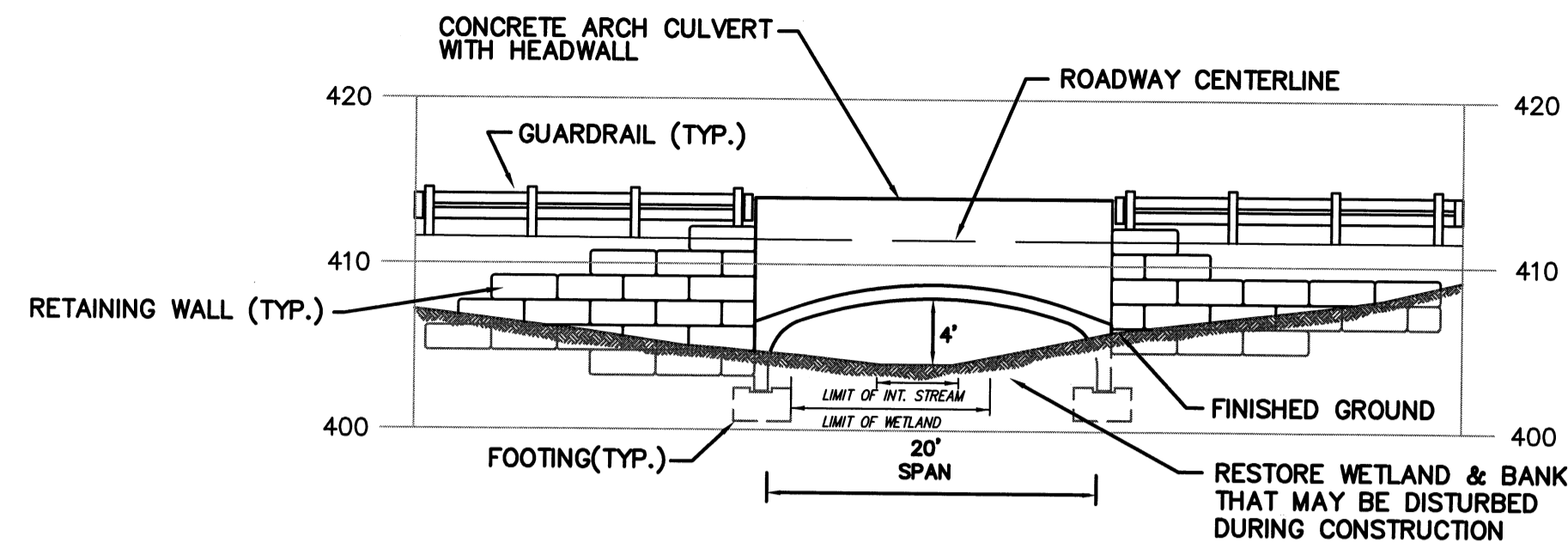
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

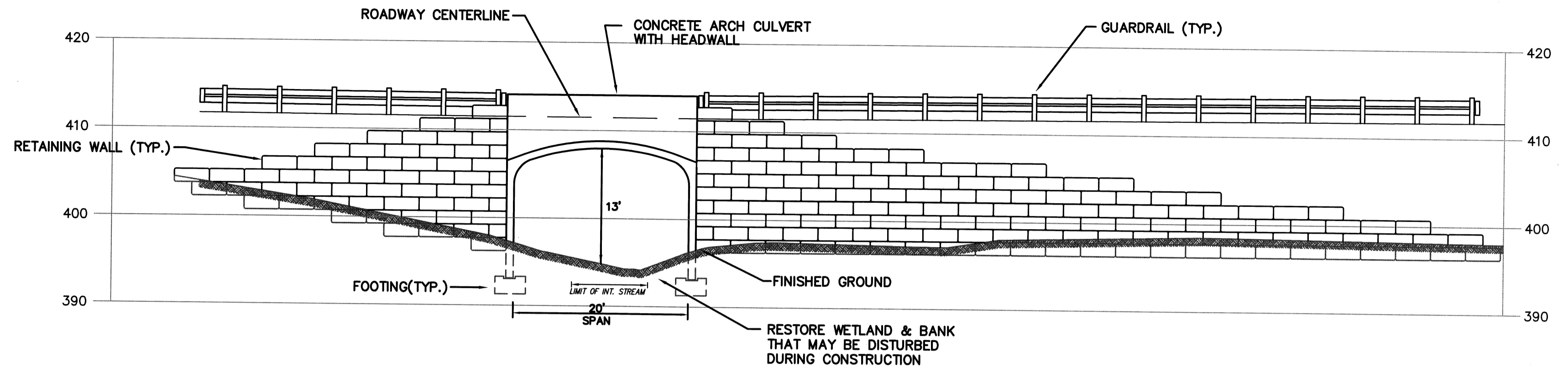
PLAN NO.
52 of 64





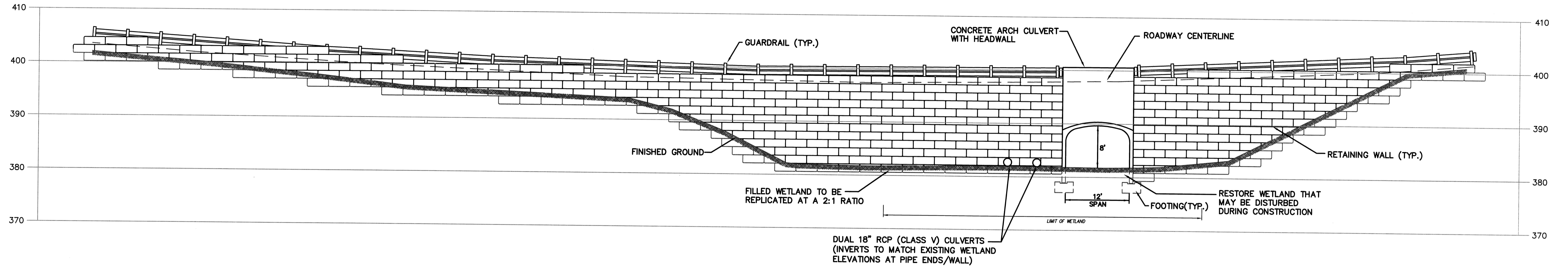
**ROAD A WETLAND CROSSING
"UPSTREAM SECTION"**

SCALE: 1"=10' (HORIZ.) & 1"=10' (VERT.)



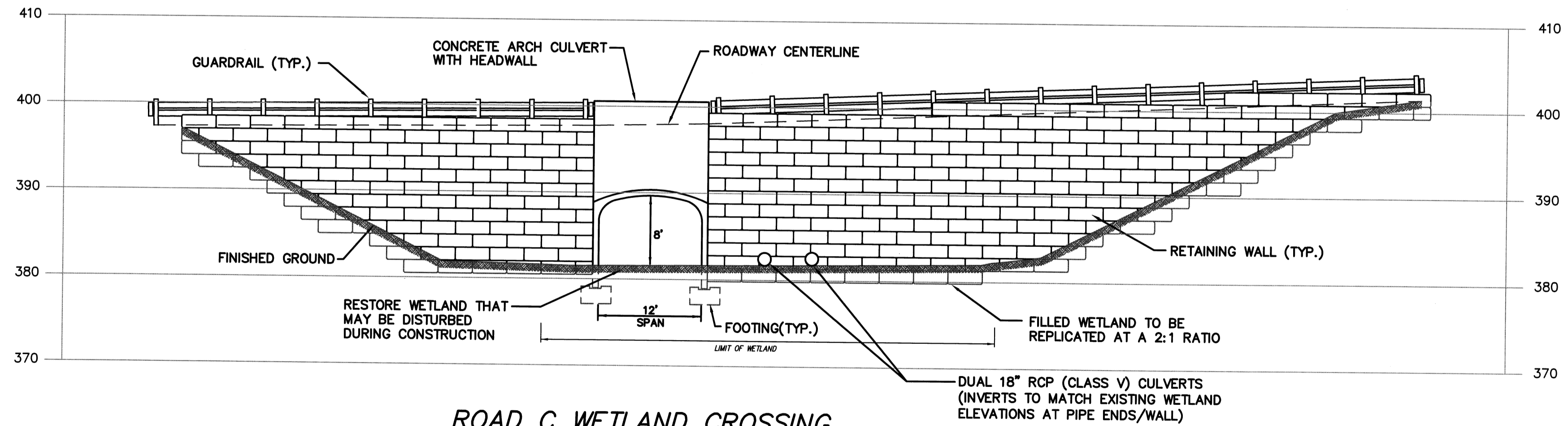
**ROAD A WETLAND CROSSING
"DOWNSTREAM SECTION"**

SCALE: 1"=10' (HORIZ.) & 1"=10' (VERT.)



**ROAD C WETLAND CROSSING
"UPSTREAM SECTION"**

SCALE: 1"=10' (HORIZ.) & 1"=10' (VERT.)



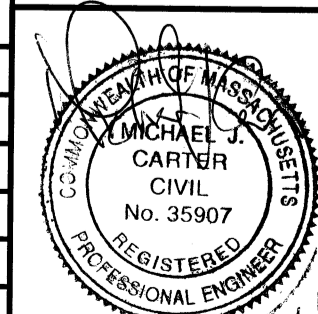
**ROAD C WETLAND CROSSING
"DOWNSTREAM SECTION"**

SCALE: 1"=10' (HORIZ.) & 1"=10' (VERT.)

NOTES:

- 1.) THE PROPOSED CULVERTS SHALL BE PRE-CAST CONCRETE OPEN BOTTOM ARCH CULVERTS AS MANUFACTURED BY CONSPAN BRIDGE SYSTEMS (OR AN APPROVED EQUAL).
- 2.) THE PROPOSED RETAINING WALLS ASSOCIATED WITH THE WETLAND CROSSINGS SHALL BE LARGE BLOCK SEGMENTAL RETAINING WALLS AS MANUFACTURED BY REDI-ROCK (OR AN APPROVED EQUAL).
- 3.) FINAL CONSTRUCTION SHOP DRAWINGS FOR BOTH THE ARCH CULVERTS AND RETAINING WALLS SHALL BE PRODUCED PRIOR TO CONSTRUCTION.
- 4.) THE BOTTOM OF THE CULVERT FOOTINGS SHALL BE A MINIMUM OF 4' BELOW FINISHED GROUND AND SHALL BE SET ON A CRUSHED STONE BASE.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | J.R.D. |
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| 3 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 2 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |
| 1 | 3/2/07 | NOTICE OF INTENT INFO ADDED | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

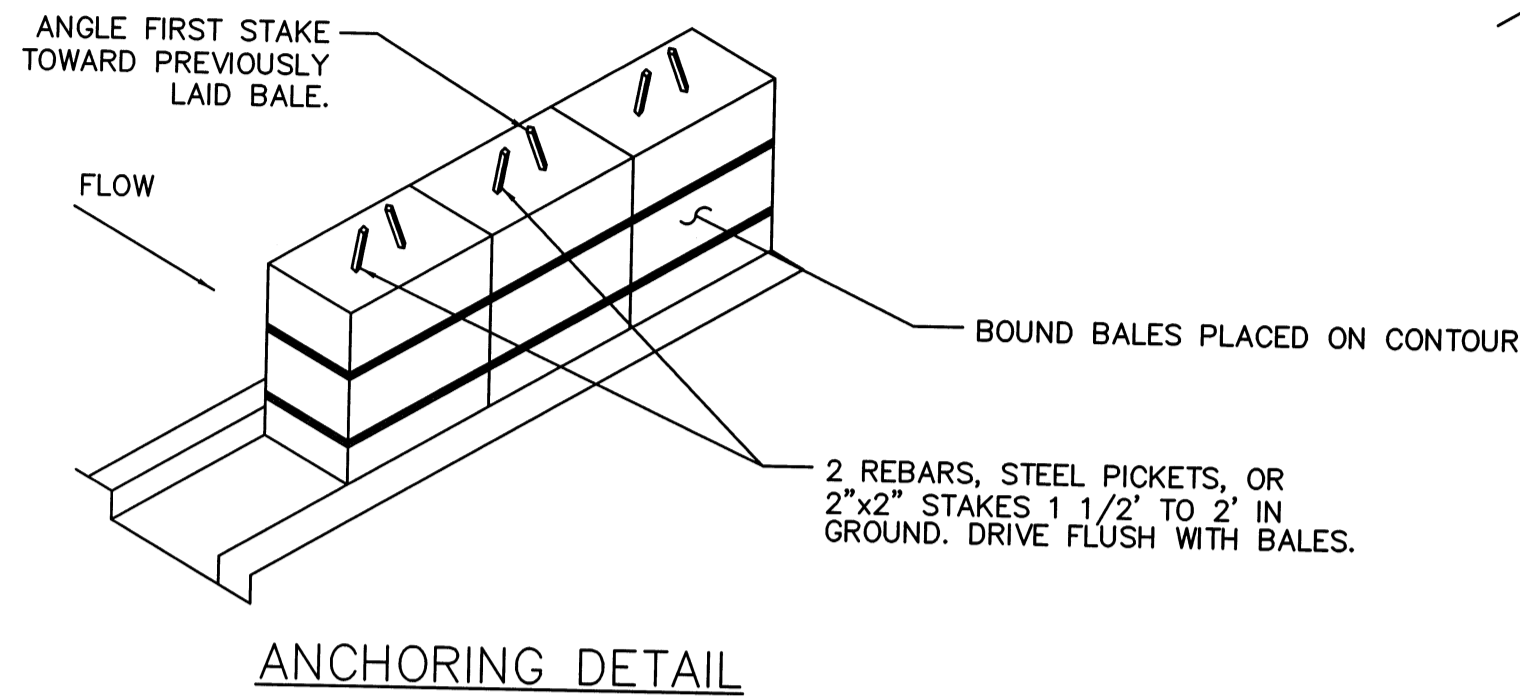
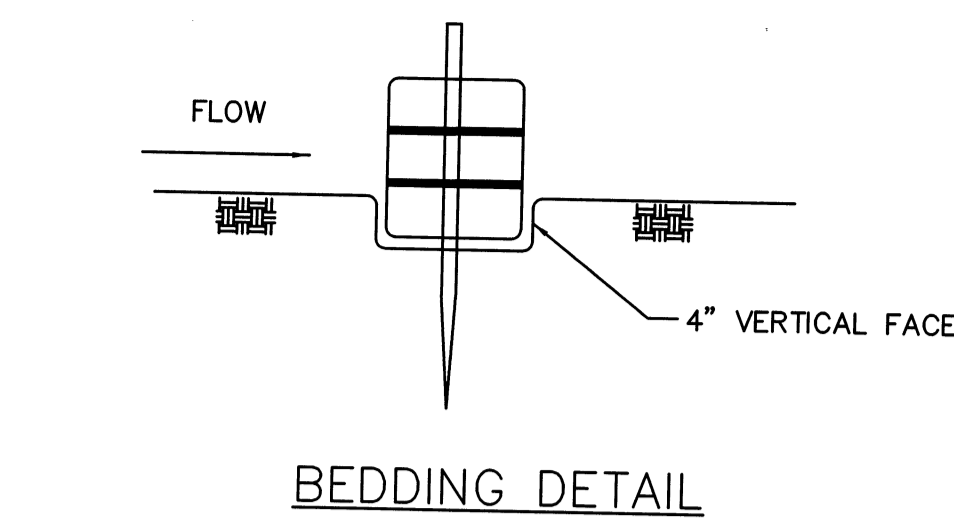
WETLAND CROSSING SECTIONS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG
DESIGNED BY: J.R.D.
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CHECKED BY: M.J.C.

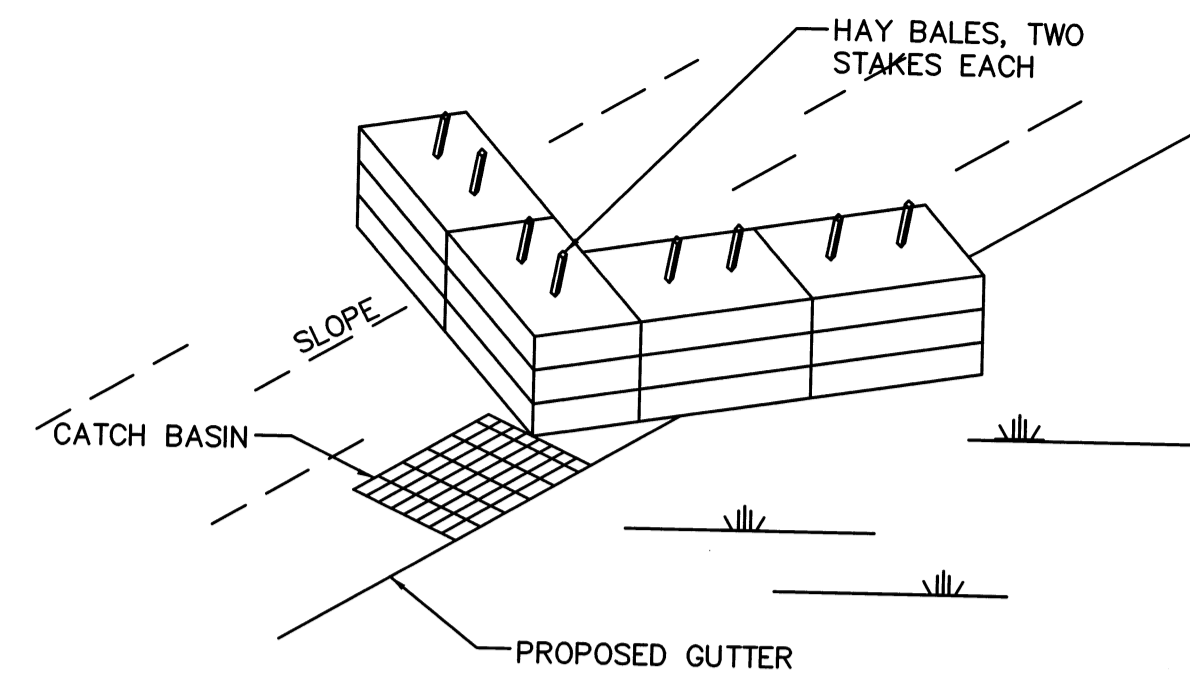
PLAN NO.
53 OF 64



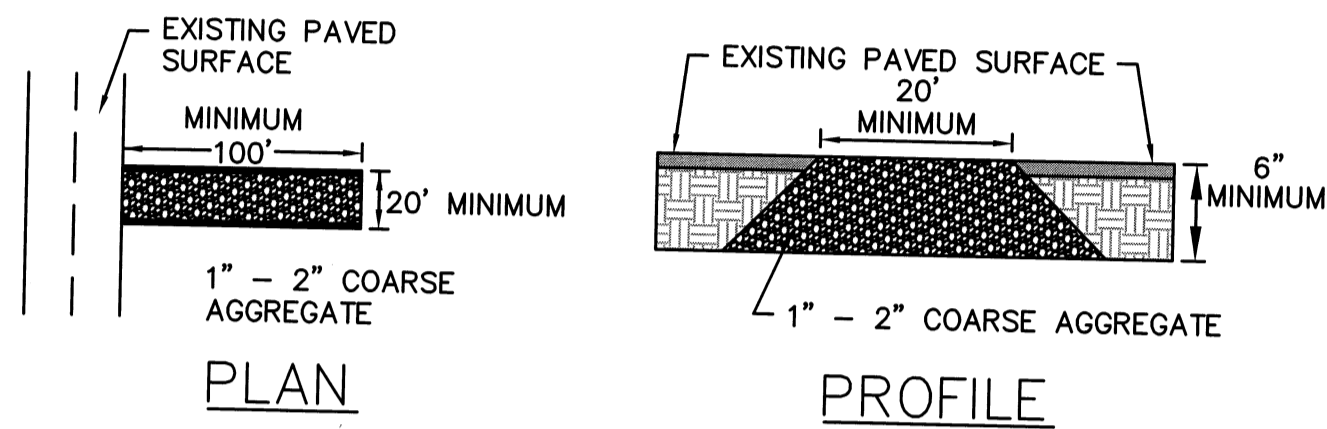
CONSTRUCTION SPECIFICATIONS:

- HAY BALES SHALL BE PLACED AROUND NEWLY INSTALLED CATCH BASINS AND DROP INLETS (WHERE REQUIRED) TO PREVENT SEDIMENTATION AND OTHER DEBRIS FROM ACCUMULATING ON THE GRATE OR IN THE SUMP. HAY BALES SHOULD BE KEPT CLEAN AND FREE OF DEBRIS TO FACILITATE FLOW.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE DETAIL
N.T.S.

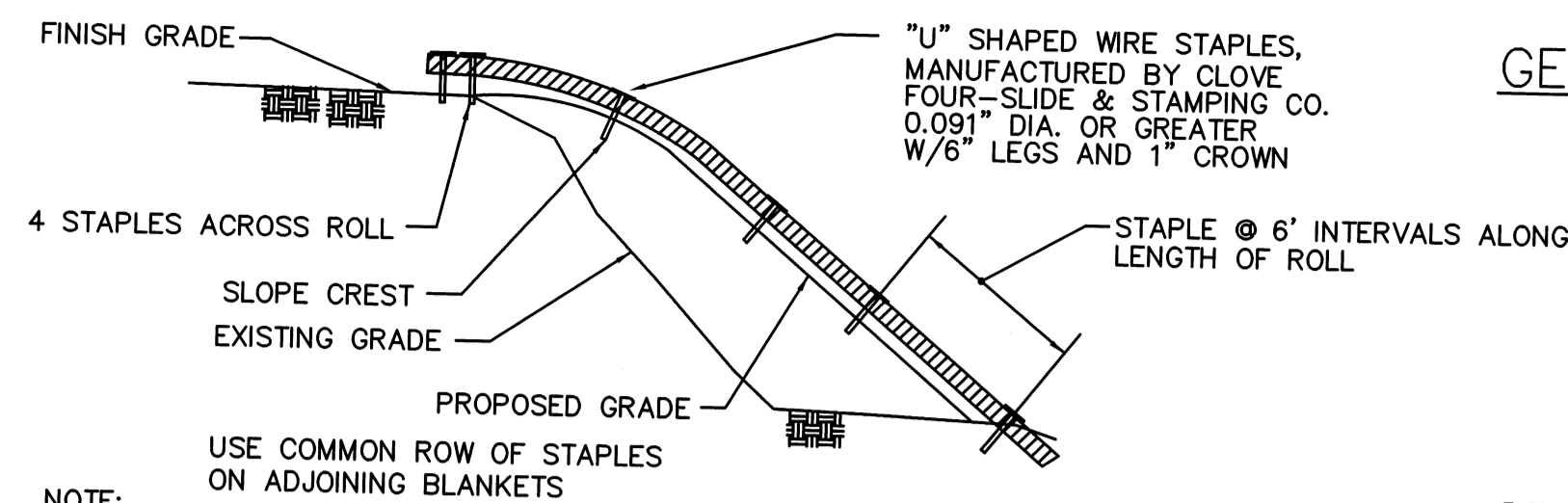


HAY BALE CHECK
N.T.S.



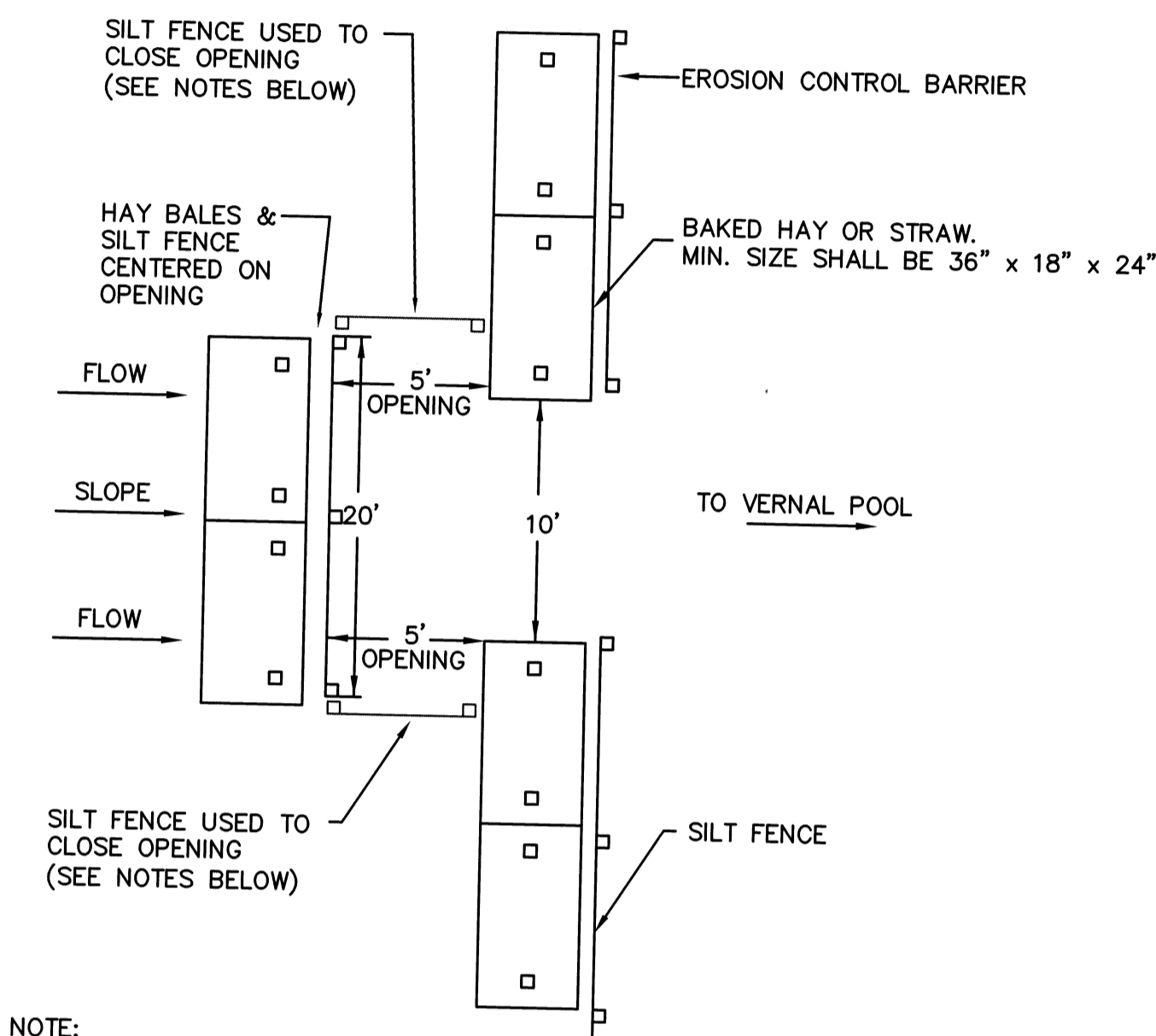
CRUSHED STONE CONSTRUCTION ENTRANCE
N.T.S.

- THE STONE USED FOR CONSTRUCTION ENTRANCE SHALL BE 1-2 INCH SIZED COARSE AGGREGATE.
- THE AGGREGATE SHALL BE AT MINIMUM 6 INCHES THICK.
- THE CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL CONSTRUCTION ENTRANCES.
- OCCASIONAL REMOVAL AND REINSTALLATION OF STONE WILL BE REQUIRED TO PREVENT TRACKING OF SEDIMENT ONTO PAVED ROADS.

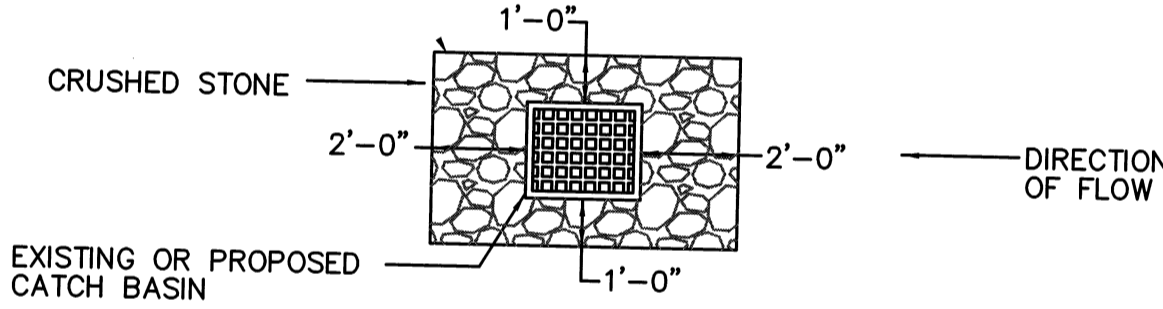


EROSION CONTROL BLANKET DETAIL
N.T.S.

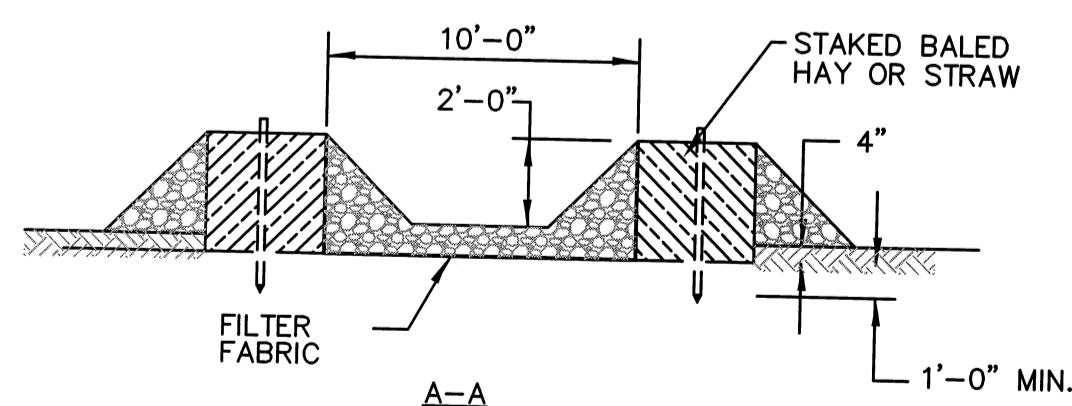
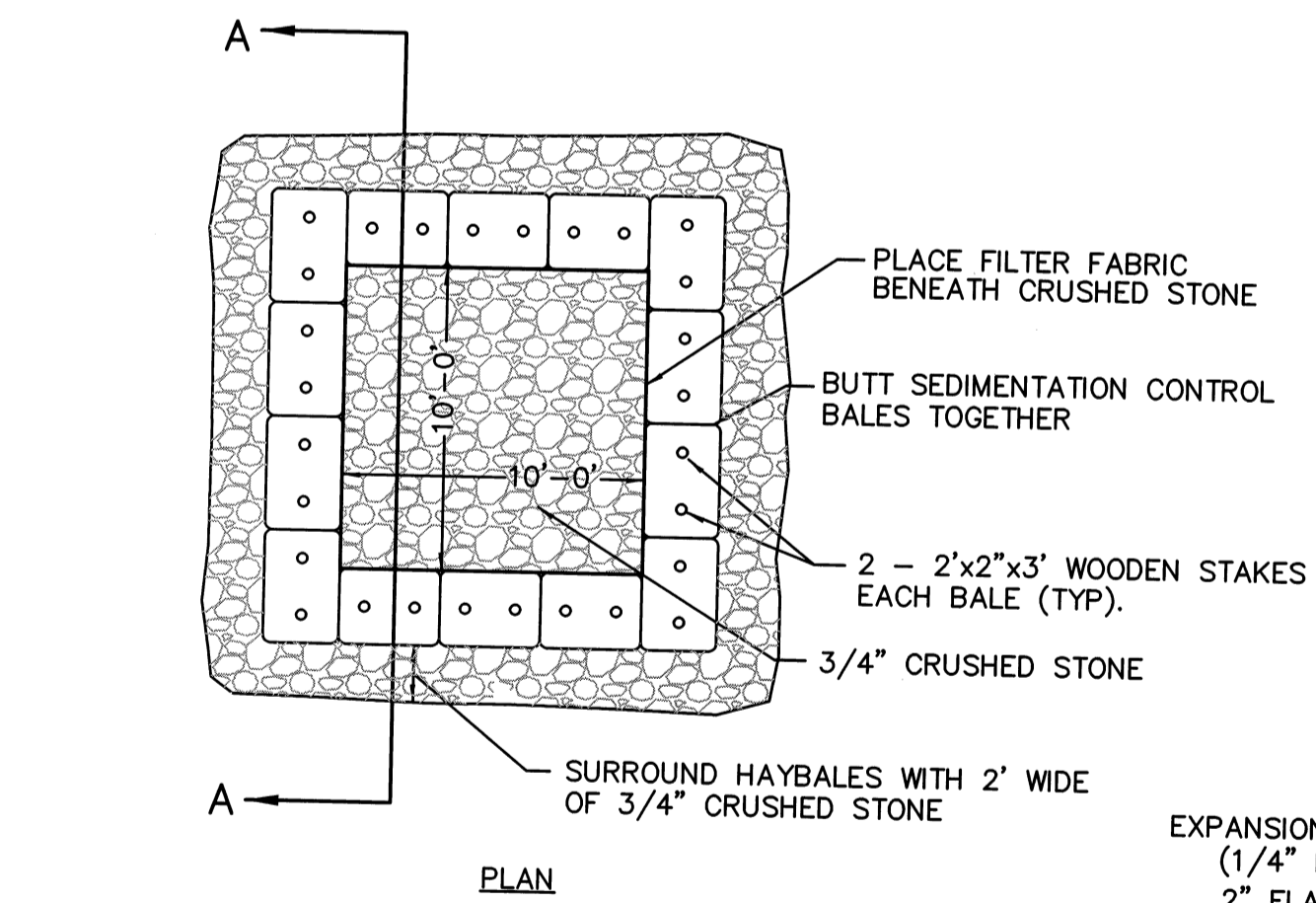
- NOTE:**
- EROSION CONTROL BLANKETS SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND WHERE NECESSARY TO PREVENT SLOPE EROSION.



- NOTE:**
- THE EROSION CONTROL BARRIER SHALL HAVE BREAKS APPROXIMATELY EVERY 50' IN AREAS ADJACENT TO VERNAL POOLS AS SHOWN ON THE TOPOGRAPHY AND GRADING PLANS TO PERMIT WILDLIFE MIGRATION, THERE SHALL BE NO BREAKS IN THE EROSION CONTROL BARRIER IN THE VICINITY OF THE ROAD A CROSSING.
 - THE BREAKS SHALL ONLY BE OPEN AS SHOWN IN THE ABOVE DETAIL DURING THE VERNAL POOL SEASON (BETWEEN MARCH AND JUNE) AND WHEN CONSTRUCTION IS NOT IN PROGRESS IN THE VICINITY OF THE CORRESPONDING EROSION CONTROL BARRIER. AT ALL OTHER TIMES THE OPENINGS SHALL BE CLOSED OFF WITH SILT FENCE.

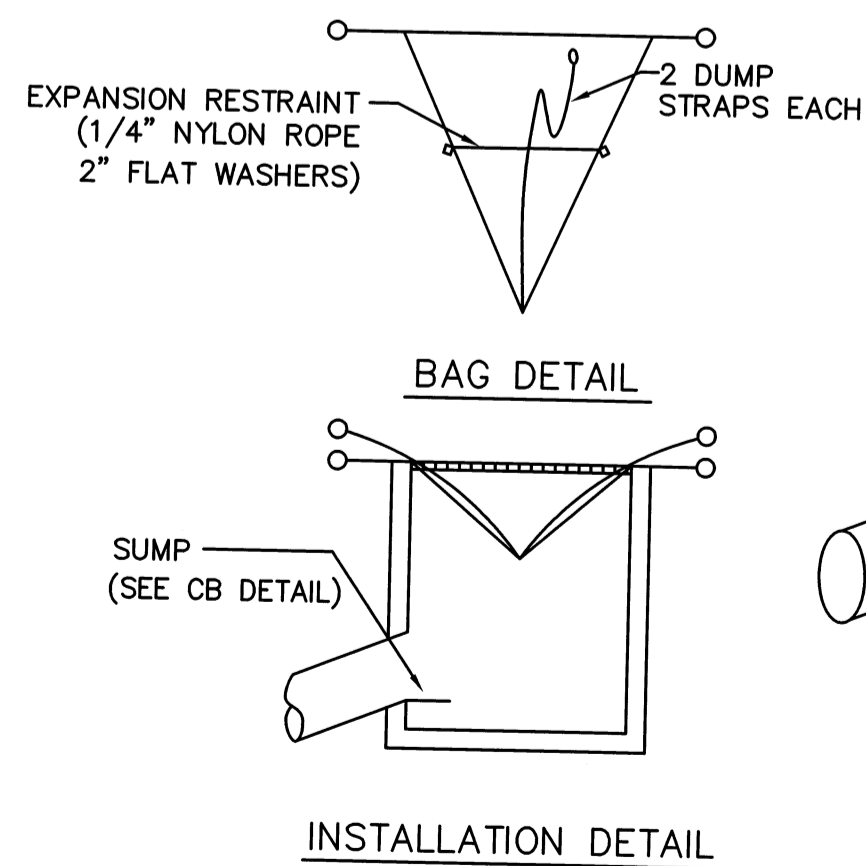


TYPICAL SEDIMENTATION CONTROL SYSTEM FOR ALL CATCH BASINS
N.T.S.



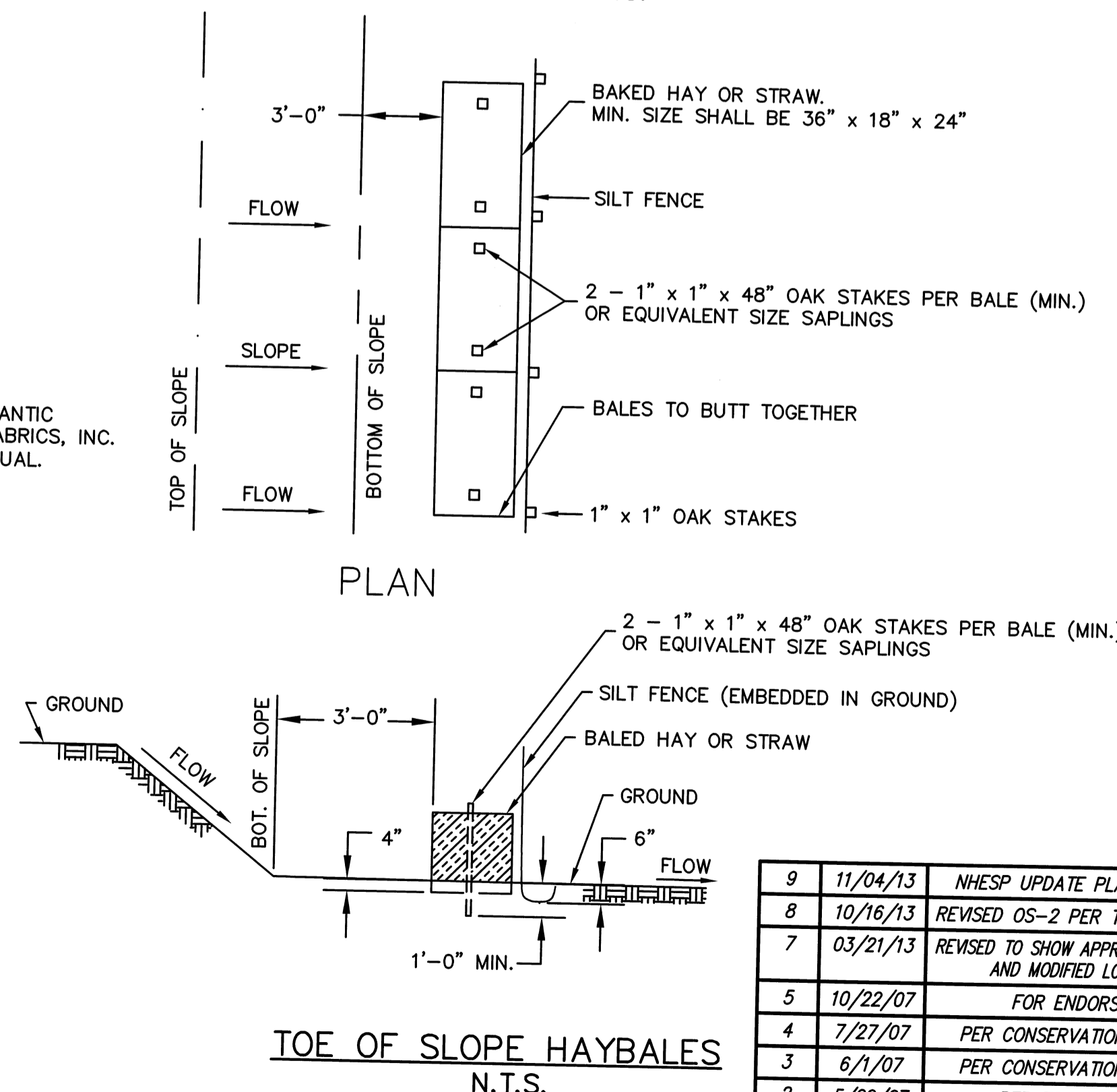
SEDIMENTATION CONTROL SYSTEM FOR ONSITE DEWATERING
N.T.S.

NOTE: SILT BAGS, FILTERS, AND TANKS MAY BE USED AS AN ALTERNATIVE TO, OR IN COMBINATION WITH A SEDIMENT BASIN.



SILTSACK DETAIL
N.T.S.

NOTE: 1. SILTSACKS SHALL BE INSTALLED IN ALL CATCH BASIN UNTIL DRAINAGE AREA HAS BEEN FULLY STABILIZED.



TOE OF SLOPE HAYBALES
N.T.S.

GENERAL

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHEREVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY TO THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO THE TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E., HAY BALES AND/OR FILTER FABRIC FENCE).

DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION WILL NOT BE DISCARDED ON SITE.

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION MATS. THESE MATS ARE MANUFACTURED COMBINATIONS OF MULCH AND NETTING AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 1.5 TO 2 TONS PER ACRE. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING.

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM - THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF FILTER FABRIC BARRIER FENCE AND HAYBALES. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED, AND AS INDICATED ON THE PLANS. DESIGN THE SYSTEM TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO INSURE EFFICIENT FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

STACKED HAY BALES - HAY OR STRAW BALES (IN ADDITION TO CRUSHED STONE) USED FOR EROSION CONTROL SHALL BE STACKED AT CATCH BASINS LOCATED IN AREAS THAT WILL NOT BE PAVED AND DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. HAY OR STRAW BALES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DEWATERING OF GROUNDWATER MAY BE NECESSARY DURING CONSTRUCTION. ALL DEWATERING ACTIVITIES SHALL BE CONDUCTED IN A MANNER THAT WILL NOT INTRODUCE SILT, SEDIMENT, CONTAMINATION, ETC. INTO A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA. DISCHARGED GROUNDWATER SHALL BE PROPERLY DETAINED, SETTLED, FILTERED OR OTHERWISE TREATED PRIOR TO ENTERING A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA (SEE DEWATERING DETAIL).

EROSION AND SEDIMENT CONTROL MAINTENANCE PROCEDURES

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

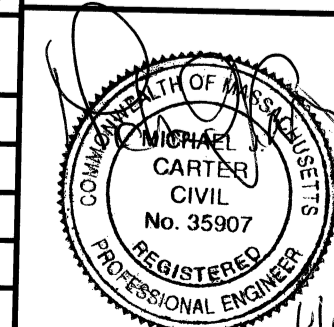
EROSION CONTROL PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD-DET1.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.
PLAN NO. 54 OF 64

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
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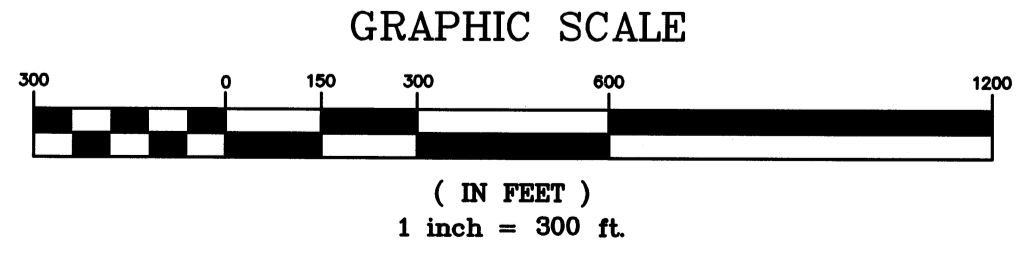


----- EXISTING DRAINAGE DIVIDE

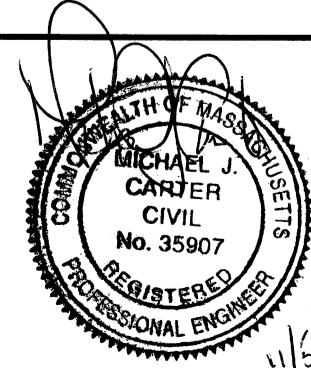
SOILS CLASSIFICATION LEGEND

| SYMBOL | SOIL DESCRIPTION |
|--------|--|
| CbB | CANTON-FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, VERY STONY. |
| CbC | CANTON-FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, VERY STONY. |
| CcB | CANTON-FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, EXTREMELY STONY. |
| CcC | CANTON-FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, EXTREMELY STONY. |
| CcD | CANTON-FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, EXTREMELY STONY. |
| ChC | CHATFIELD/HOLLIS/ROCK OUTCROP-COMPLEX-3 TO 15 PERCENT SLOPES. |
| ChD | CHATFIELD/HOLLIS/ROCK OUTCROP-COMPLEX, 15 TO 25 PERCENT SLOPES. |
| HgB | HINCKLEY-SANDY LOAM, 3 TO 8 PERCENT SLOPES. |
| HgE | HINCKLEY-SANDY LOAM, 25 TO 35 PERCENT SLOPES. |
| PaB | PAXTON-FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES. |
| PdB | PAXTON-FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, VERY STONY. |
| PcE | PAXTON-FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, EXTREMELY STONY. |
| PcE | PAXTON-FINE SANDY LOAM, 25 TO 35 PERCENT SLOPES, EXTREMELY STONY. |
| Pg | PITS-GRAVEL. |
| Sc | SCARBORO-MUCKY FINE SANDY LOAM. |
| Wh | WHITMAN-LOAM, EXTREMELY STONY. |
| WrB | WOODBIDGE-FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES. |
| WsB | WOODBIDGE-FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY. |
| WtB | WOODBIDGE-FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY. |

SITE PLAN
SCALE: 1"=300'



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
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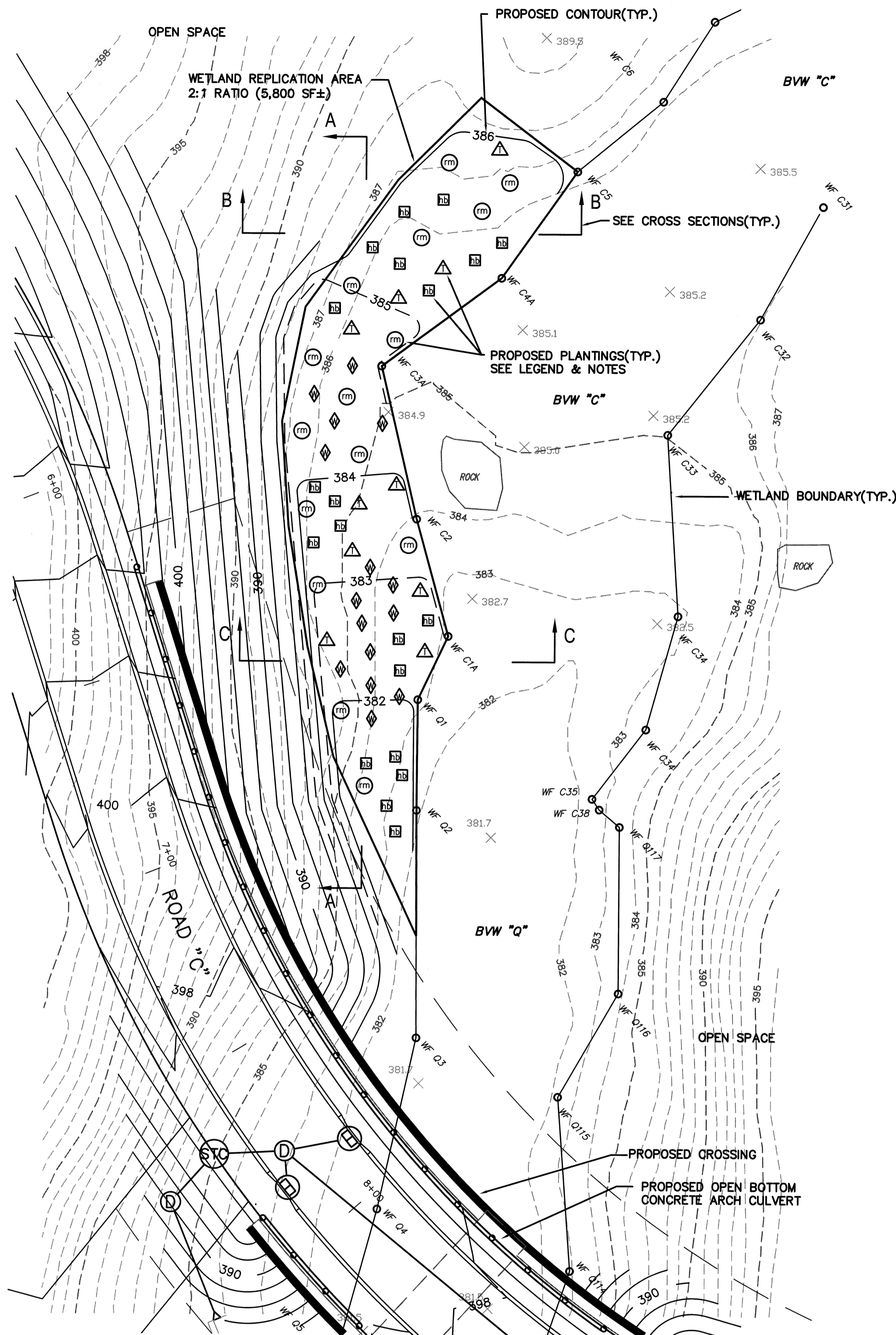
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

SOILS MAP

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=300' DATE: JANUARY 26, 2007

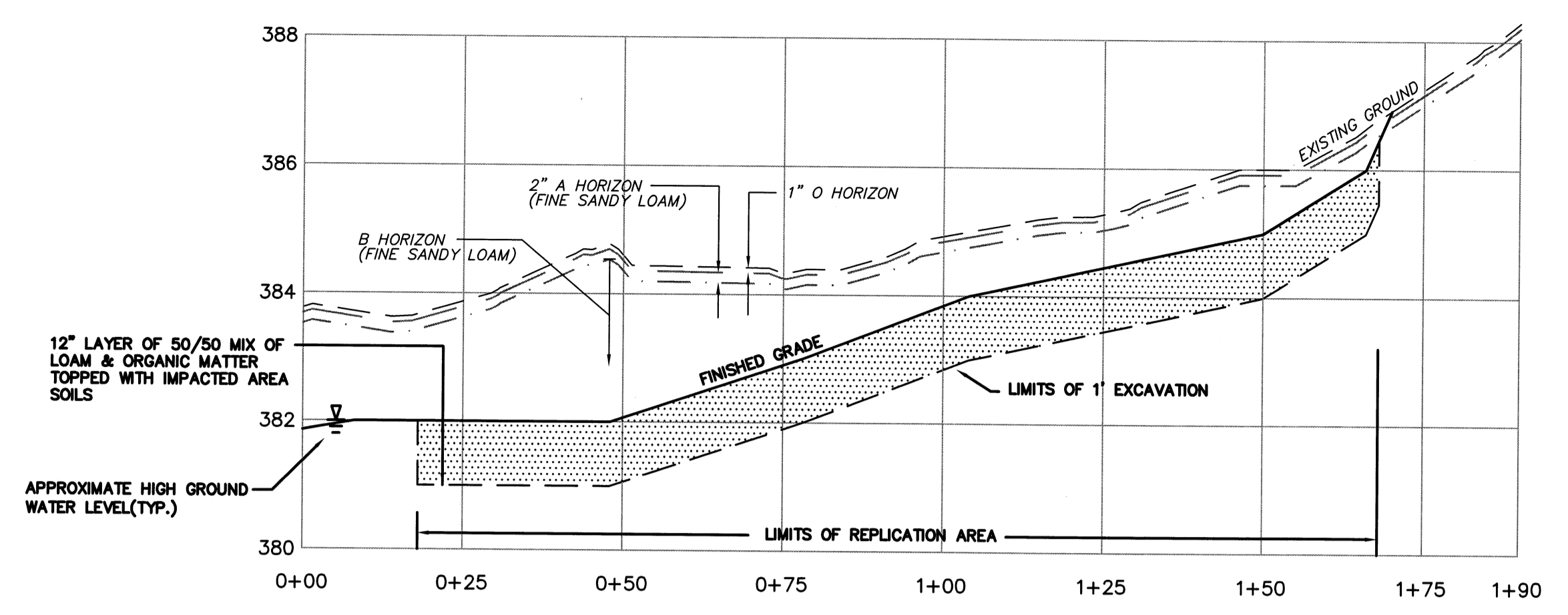
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| JOB NO. \FILE NAME: 0213-DEF-LOT-MOD/ SOILS.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 55 of 64 |
|---|---|----------------------|



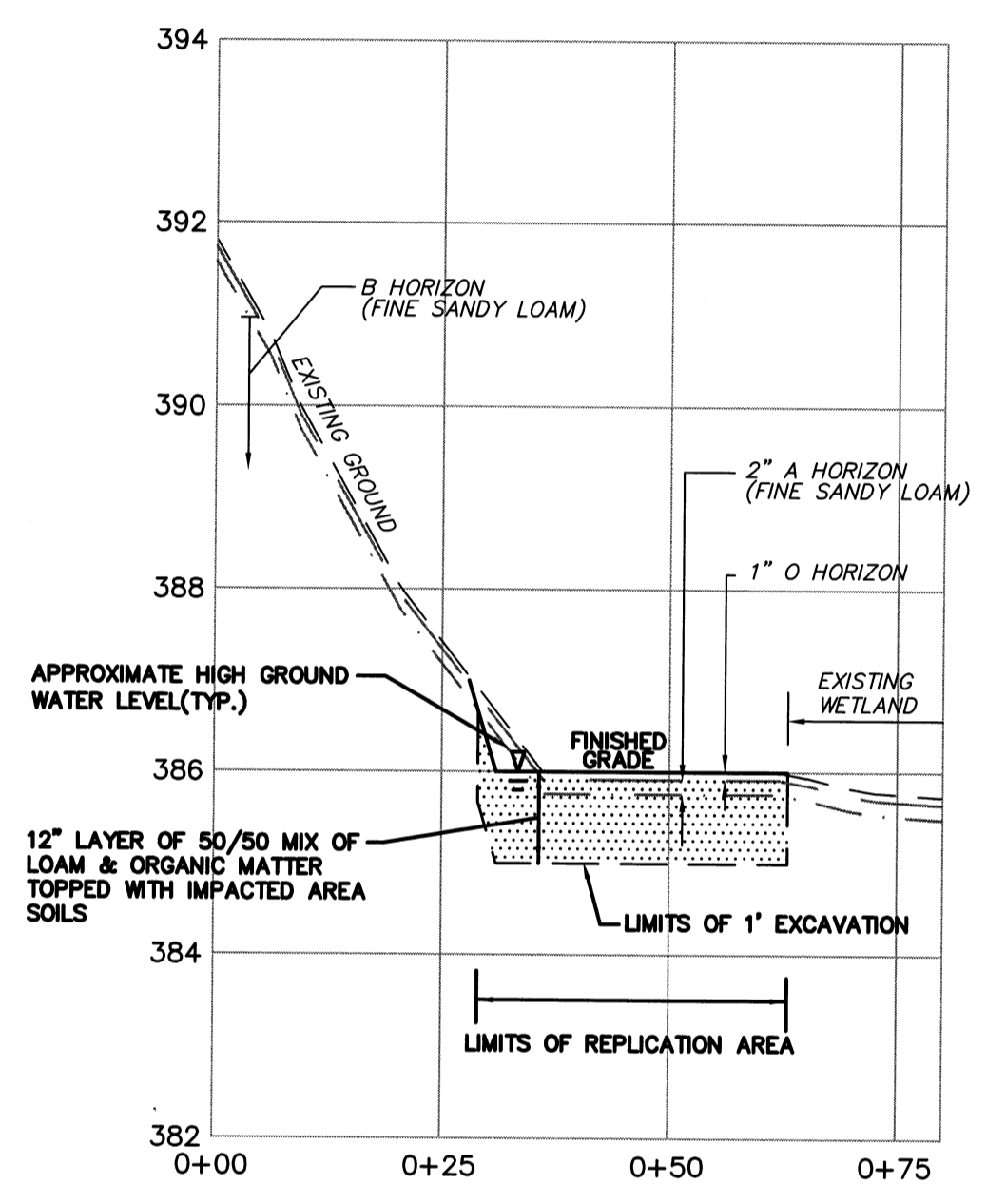
WETLAND REPLICATION PLAN
1"=20'

- PLANTING LEGEND:**
- ⊙ RED MAPLE (*Acer rubrum*)
 - ⊠ TUPELO (*Nyssa sylvatica*)
 - △ Highbush Blueberry (*Vaccinium corymbosum*)
 - ◇ WINTERBERRY (*Ilex verticillata*)

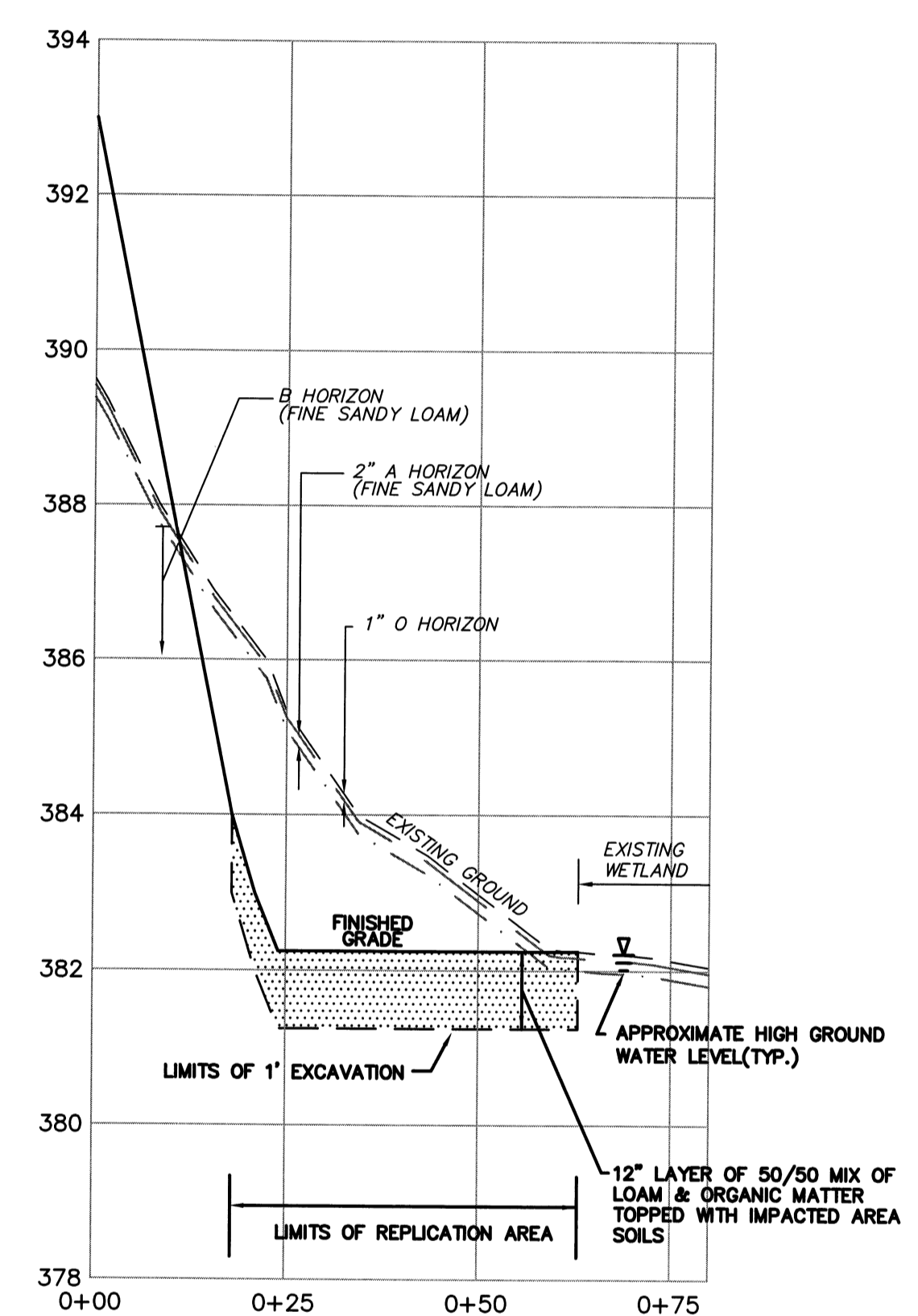
ALSO PLANT 75 CINNAMON FERNS (*Osmunda cinnamomea*) IN THREES NEAR BASE OF TREES AND 5 LBS OF NEW ENGLAND WETMIX OR EQUIVALENT BROADCAST OVER REPLICATION AREA.



CROSS SECTION A-A
SCALE: HORIZ. - 1"=20'
VERT. - 1"=2'



CROSS SECTION B-B
SCALE: HORIZ. - 1"=20'
VERT. - 1"=2'



CROSS SECTION C-C
SCALE: HORIZ. - 1"=20'
VERT. - 1"=2'

REPLICATION AREA PLANTING SPECIFICATIONS

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| RED MAPLE (<i>Acer rubrum</i>) | 6-8 FT | 15 FT | 15 |
| TUPELO (<i>Nyssa sylvatica</i>) | 6-8 FT | 15 FT | 10 |
| SHRUBS | | | |
| Highbush Blueberry (<i>Vaccinium corymbosum</i>) | 12-24 in | 10 FT | 20 |
| Winterberry (<i>Ilex verticillata</i>) | 12-24 in | 10 FT | 15 |
| GROUND COVER | | | |
| CINNAMON FERNS (<i>Osmunda cinnamomea</i>) | qt/gal | 3 FT | 75 |
| NEW ENGLAND WETMIX OR EQUIVALENT | | 1245 SQ FT/LB | 5 LBS |

- WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT**
- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE REPLICATION AREA.
 - COBBLESTONES AND SMALL BOULDERS WILL BE POSITIONED INTO THE REPLICATION AREA TO MIMIC IMPACT AREA.
- WETLAND REPLICATION AREA CONSTRUCTION PROTOCOL**
A WETLAND SCIENTIST EXPERIENCED IN WETLAND REPLICATION WILL SUPERVISE THE WETLAND REPLICATION EFFORT. THE WORK WILL BE CONDUCTED AS FOLLOWS:
- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE REPLICATION AREA. AFTER THE REPLICATION AREA IS COMPLETED, EROSION CONTROL WILL BE PLACED UP GRADIENT OF THE REPLICATION AREA.
 - THE WETLAND IMPACT AND WETLAND REPLICATION AREAS WILL BE CLEARED AND GRUBBED.
 - DOWNED TREES, LOGS, BRANCHES, AND SURFACE COBBLESTONE OR SMALL BOULDERS WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED INTO THE REPLICATION AREA.
 - THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE REPLICATION AREA.
 - THE REPLICATION AREA WILL BE OVER EXCAVATED BY 12 INCHES FOR A FINAL ELEVATION EQUAL TO THAT OF THE ADJACENT WETLAND SYSTEM. IF FEASIBLE ALL OF THE B HORIZON SHOULD NOT BE EXCAVATED AND AT LEAST 6-12 INCHES OF THE B HORIZON SHOULD BE LEFT TO OVERLAY THE C HORIZON SO THAT A HEALTHY ROOTING MEDIUM WILL BE AVAILABLE.
 - THE BOTTOM OF THE REPLICATION AREA WILL BE BACKFILLED WITH A 50/50 MIX OF LOAM AND ORGANIC MATTER (LEAF MOLD OR COMPOST) AND THEN TOPPED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF HIGH ORGANIC SOILS (4 TO 12% ORGANIC CARBON) ARE PRESENT TO CREATE A FINAL ELEVATION THAT IS TO MERGE IN ELEVATION WITH ADJACENT WETLANDS.
 - THE REPLICATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES. PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
 - AFTER PLANTING IS COMPLETED, THE BOTTOMS OF THE REPLICATION AREA WILL BE COVERED BY A 3-4 INCH DEEP LAYER OF HAY MULCH OR STRAW.
 - MINOR ADJUSTMENTS TO THE GRADING AS DIRECTED BY THE WETLAND SCIENTIST SUPERVISOR WILL BE DONE IN THE FIELD AS REQUIRED IN ORDER TO ACHIEVE APPROPRIATE WETLAND HYDROLOGY.

REPLICATION AREA MONITORING
THE REPLICATION AREA WILL BE MONITORED FOR A PERIOD OF TWO YEARS AFTER CONSTRUCTION. OVER THIS TWO-YEAR PERIOD, THE MITIGATION AREA WILL BE INSPECTED AT THE END OF EACH GROWING SEASON FOR WETLAND PLANT VITALITY AND VEGETATION COVER. IF THE QUALIFIED WETLAND SCIENTIST PERFORMING THE EVALUATION DOES NOT THINK THE REPLICATION AREA WILL NOT MET THE 75% RE-VEGETATION REQUIREMENT BY THE END OF THE SECOND YEAR ADDITIONAL PLANTINGS WILL BE SUGGESTED. EVALUATION RESULTS WILL BE REPORTED TO THE CONSERVATION COMMISSION.

- PLANTING DETAILS**
- TREES WILL BE PLANTED THROUGHOUT THE AREA.
 - FERNS WILL BE PLANTED IN CLUMPS OF 3 AROUND THE BASE OF EACH TREE.
 - SHRUBS WILL BE PLANTED IN CLUMPS THROUGHOUT THE AREA.
 - ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED AS DIRECTED BY THE SUPERVISING WETLAND SCIENTIST.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 5 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 4 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 3 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 2 | 5/29/07 | PER TOWN COMMENTS | J.R.D. |
| 1 | 4/3/07 | PER PEER REVIEW COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

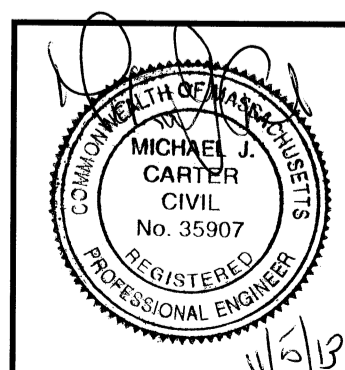
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

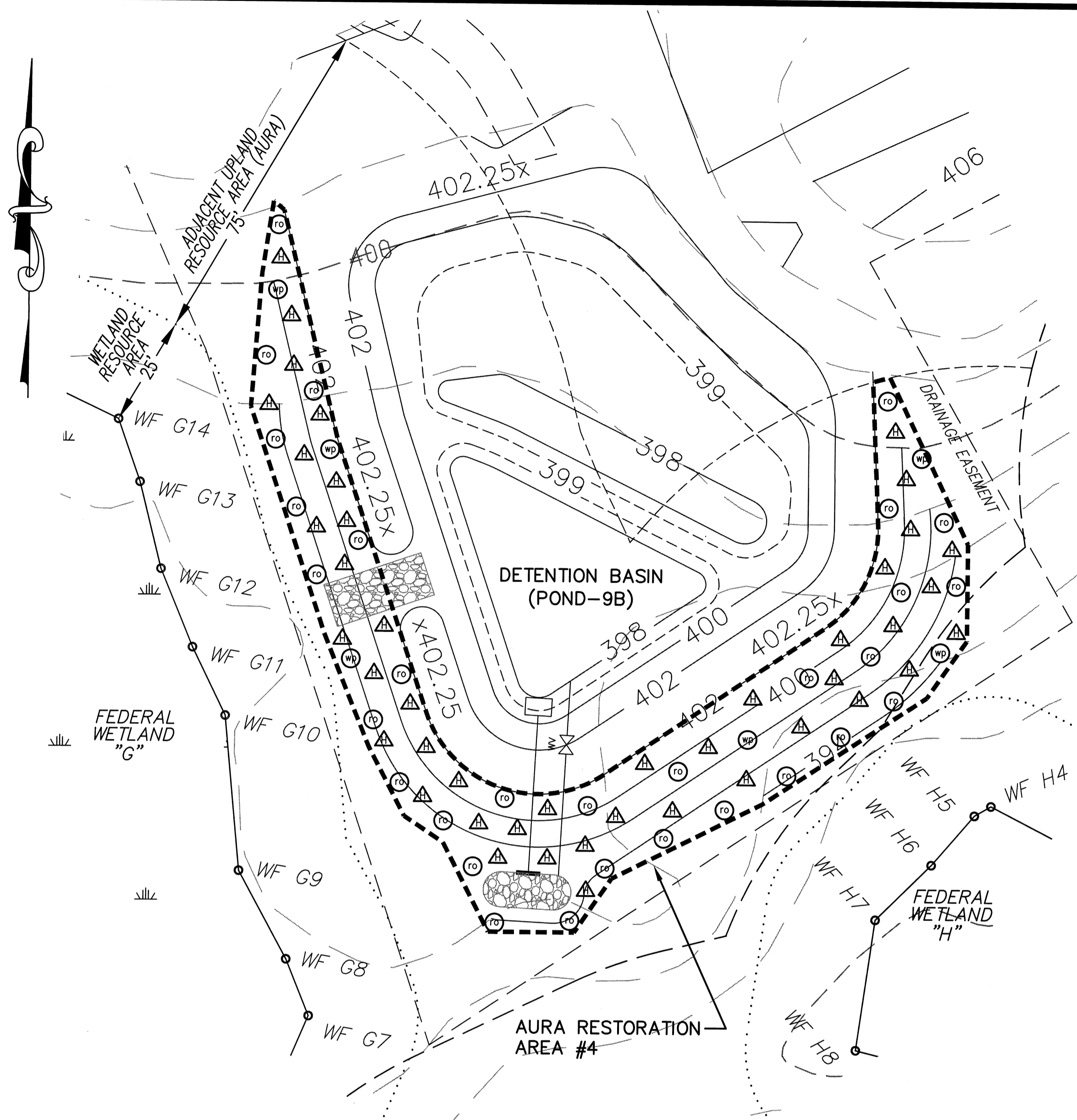
WETLAND REPLICATION PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

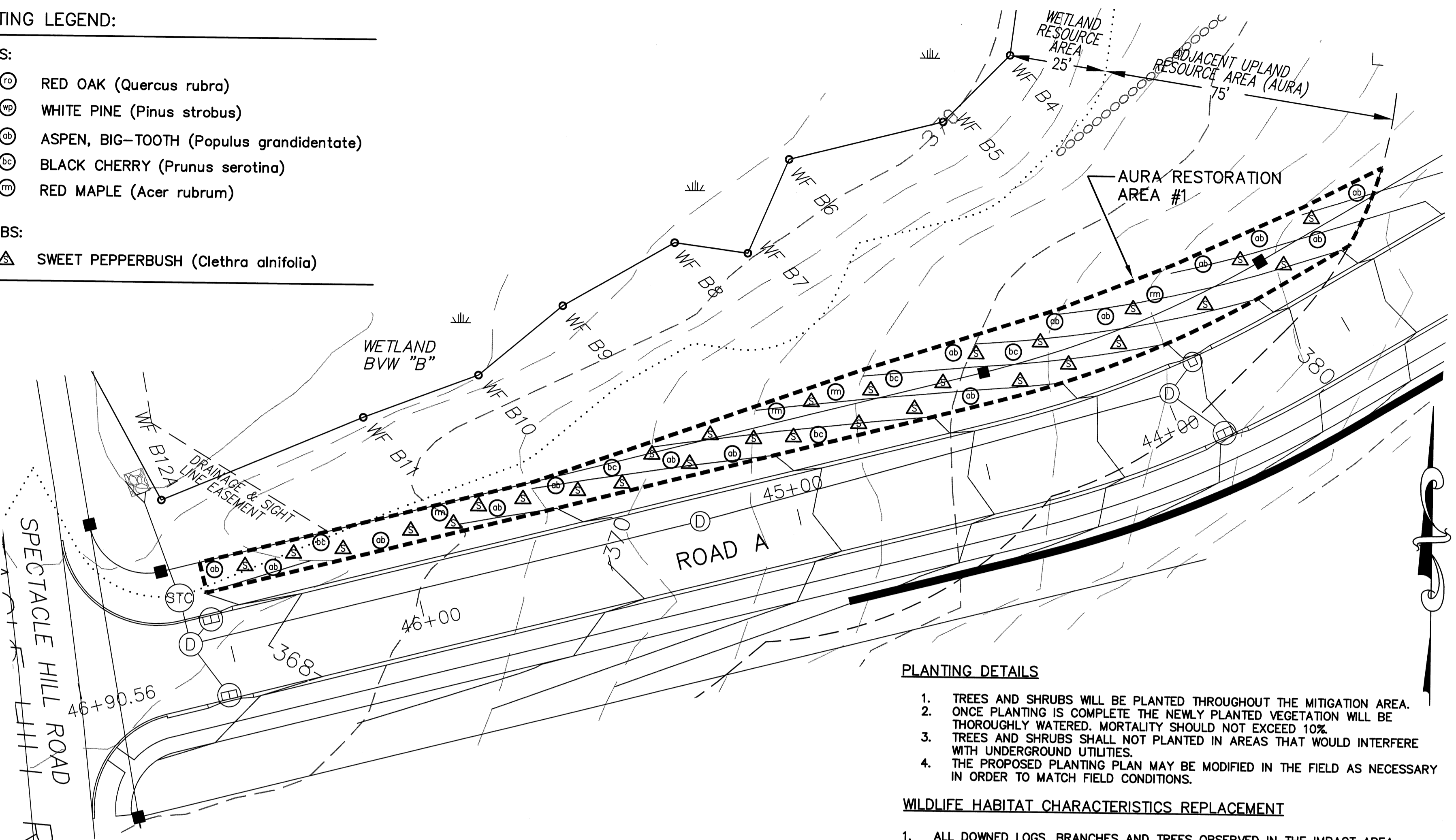
SCALE: AS NOTED DATE: JANUARY 26, 2007

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| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD\ DET1.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 56 of 64 |
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- PLANTING LEGEND:**
- TREES:**
- ⊙ RED OAK (*Quercus rubra*)
 - ⊙ WHITE PINE (*Pinus strobus*)
 - ⊙ ASPEN, BIG-TOOTH (*Populus grandidentate*)
 - ⊙ BLACK CHERRY (*Prunus serotina*)
 - ⊙ RED MAPLE (*Acer rubrum*)
- SHRUBS:**
- △ SWEET PEPPERBUSH (*Clethra alnifolia*)



PROPOSED MITIGATION:
 SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT OUTER SIDE SLOPES AS FOLLOWS (8,000 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| RED OAK (<i>Quercus rubra</i>) | 2-3 FT | 15 FT | 30 |
| WHITE PINE (<i>Pinus strobus</i>) | 2-3 FT | 15 FT | 6 |
| SHRUBS | | | |
| HIGHBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 12-18 in | 10 FT | 44 |
| GROUND COVER | | | |
| SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 6.5 LBS. | | | |

- PLANTING DETAILS**
- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
 - ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
 - TREES AND SHRUBS SHALL NOT BE PLANTED IN AREAS THAT WOULD INTERFERE WITH UNDERGROUND UTILITIES OR RIP RAP SPILLWAYS.
 - THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

- WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT**
- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
 - HARD MAST WILL BE PROVIDED BY OAKS, FRUIT BY BLUEBERRIES.
 - RELOCATE TWO 6-12" SNAGS FROM IMPACT AREA AND PLACE UPRIGHT AND ANCHORED IN THE SOIL WITHIN MITIGATION AREA.

- CONSTRUCTION PROTOCOL**
- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
 - REMOVE TWO SNAGS ALONG WITH ANCHORING SOIL BALLS AND STORE FOR USE IN MITIGATION AREA.
 - THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
 - DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
 - THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
 - THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
 - THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
 - THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
 - AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

PROPOSED MITIGATION:
 SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT ROAD SIDE SLOPES AS FOLLOWS (5,300 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|---|-----------|---------------------|-------------|
| TREES | | | |
| ASPEN, BIG-TOOTH (<i>Populus grandidentate</i>) | 2-3 FT | 15 FT | 15 |
| BLACK CHERRY (<i>Prunus serotina</i>) | 3-4 FT | 15 FT | 5 |
| RED MAPLE (<i>Acer rubrum</i>) | 2-3 FT | 15 FT | 4 |
| SHRUBS | | | |
| SWEET PEPPERBUSH (<i>Clethra alnifolia</i>) | 12-18 in | 10 FT | 29 |

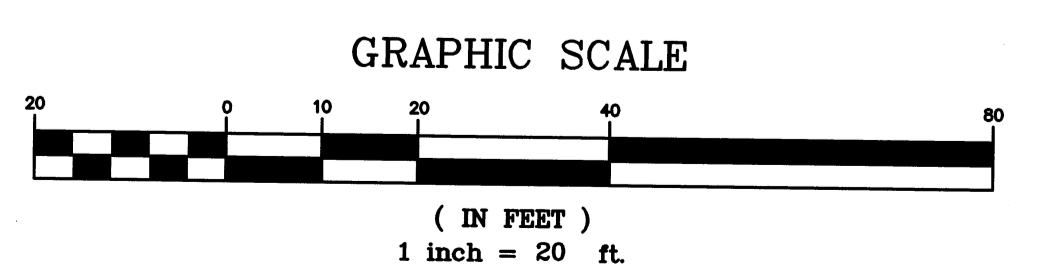
GROUND COVER
 SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 4.25 LBS.

- PLANTING DETAILS**
- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
 - ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
 - TREES AND SHRUBS SHALL NOT BE PLANTED IN AREAS THAT WOULD INTERFERE WITH UNDERGROUND UTILITIES.
 - THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.
- WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT**
- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
 - FRUIT AND DRY MAST WILL BE PROVIDED BY BLACK CHERRY AND RED MAPLE.

- CONSTRUCTION PROTOCOL**
- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
 - THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
 - DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA.
 - THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
 - THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
 - THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
 - THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
 - AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

AURA MITIGATION AREA #1
BVW "B" AREA
(ROAD A: STA. 43+50 TO 46+90)
 SCALE: 1"=20'

AURA MITIGATION AREA #4
FEDERAL WETLAND "G" & "H" AREA
(DETENTION BASIN 9B)
 SCALE: 1"=20'



| NO. | DATE | DESCRIPTION | BY |
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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 2 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

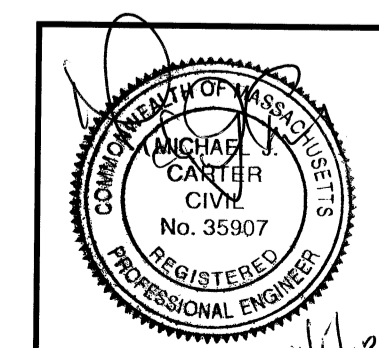
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

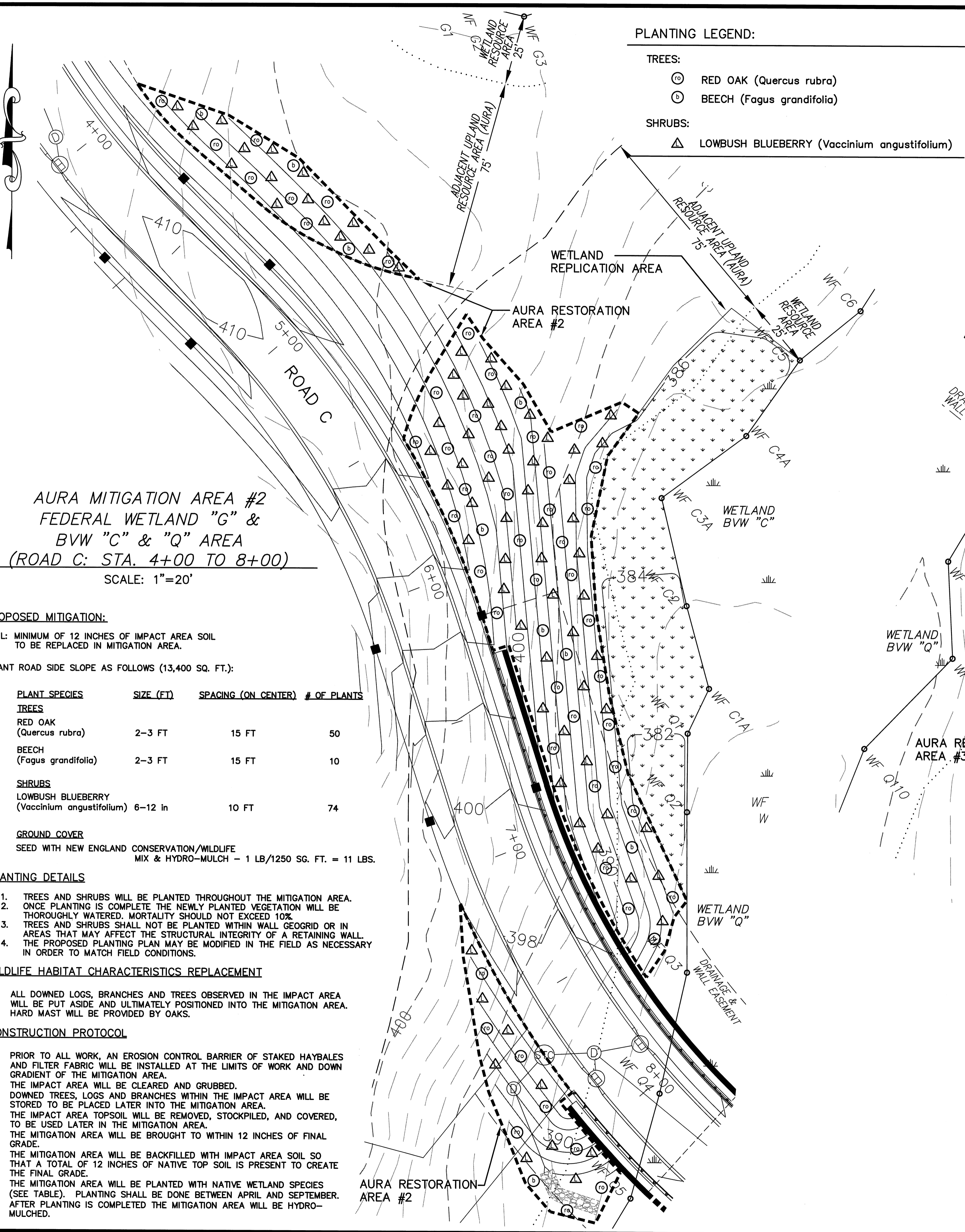
RESOURCE AREA RESTORATION PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

| | | |
|---|---|----------------------|
| JOB NO. \ FILE NAME: 0213-DEF-LOT-MOD RESTORE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 57 OF 64 |
|---|---|----------------------|





PLANTING LEGEND:

TREES:

- ⊙ RED OAK (*Quercus rubra*)
- ⊙ BEECH (*Fagus grandifolia*)

SHRUBS:

- △ LOWBUSH BLUEBERRY (*Vaccinium angustifolium*)

AURA MITIGATION AREA #2
FEDERAL WETLAND "G" &
BVW "C" & "Q" AREA
(ROAD C: STA. 4+00 TO 8+00)
 SCALE: 1"=20'

PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.

PLANT ROAD SIDE SLOPE AS FOLLOWS (13,400 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|---|-----------|---------------------|-------------|
| TREES | | | |
| RED OAK (<i>Quercus rubra</i>) | 2-3 FT | 15 FT | 50 |
| BEECH (<i>Fagus grandifolia</i>) | 2-3 FT | 15 FT | 10 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 74 |
| GROUND COVER | | | |
| SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SG. FT. = 11 LBS. | | | |

PLANTING DETAILS

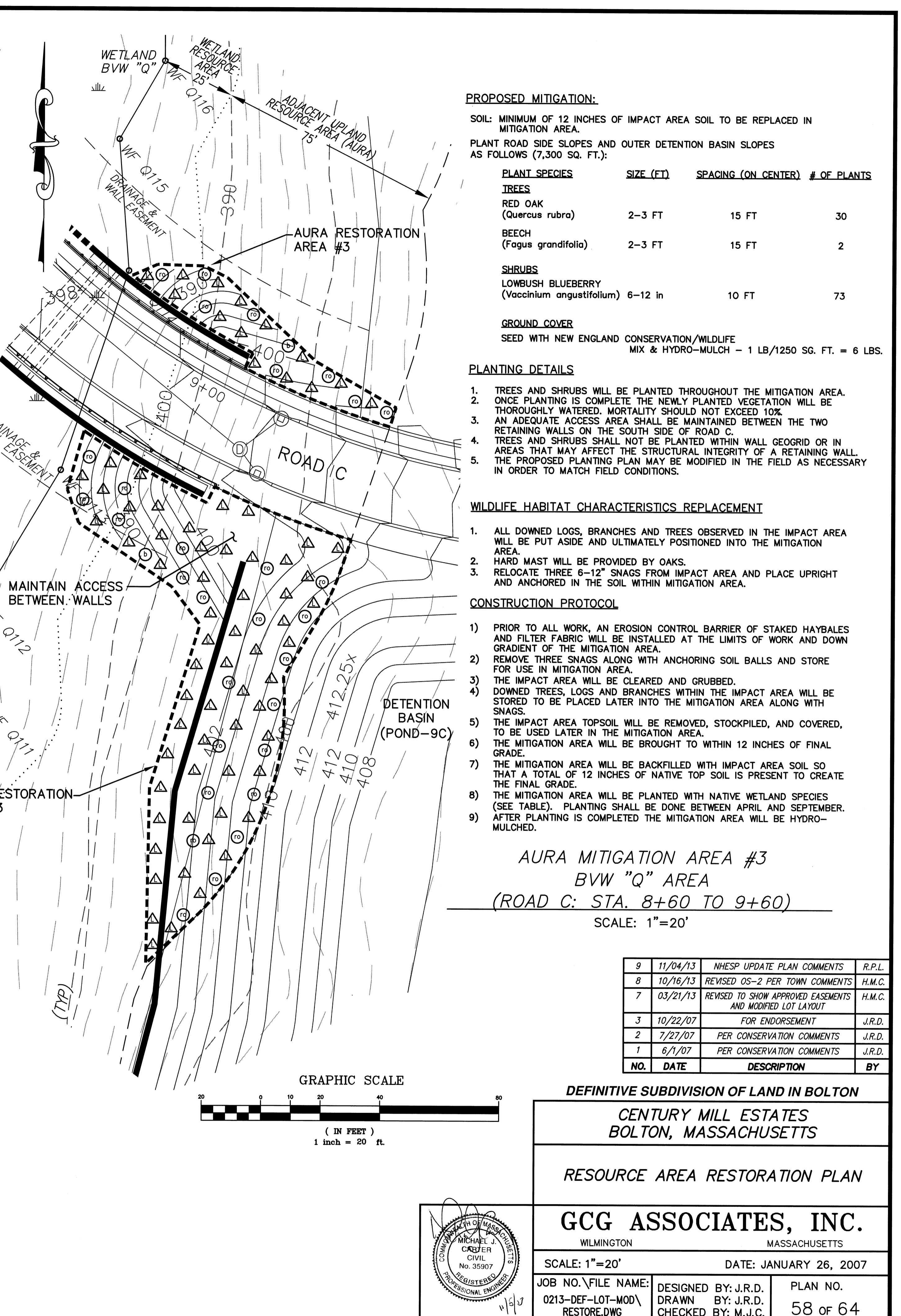
- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA. ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- TREES AND SHRUBS SHALL NOT BE PLANTED WITHIN WALL GEOGRID OR IN AREAS THAT MAY AFFECT THE STRUCTURAL INTEGRITY OF A RETAINING WALL. THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER. AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.



PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.

PLANT ROAD SIDE SLOPES AND OUTER DETENTION BASIN SLOPES AS FOLLOWS (7,300 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| RED OAK (<i>Quercus rubra</i>) | 2-3 FT | 15 FT | 30 |
| BEECH (<i>Fagus grandifolia</i>) | 2-3 FT | 15 FT | 2 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 73 |
| GROUND COVER | | | |
| SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SG. FT. = 6 LBS. | | | |

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
- ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- AN ADEQUATE ACCESS AREA SHALL BE MAINTAINED BETWEEN THE TWO RETAINING WALLS ON THE SOUTH SIDE OF ROAD C.
- TREES AND SHRUBS SHALL NOT BE PLANTED WITHIN WALL GEOGRID OR IN AREAS THAT MAY AFFECT THE STRUCTURAL INTEGRITY OF A RETAINING WALL. THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

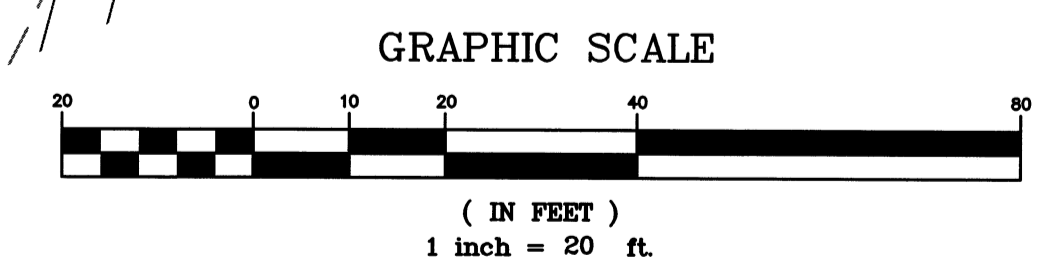
- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS.
- RELOCATE THREE 6-12" SNAGS FROM IMPACT AREA AND PLACE UPRIGHT AND ANCHORED IN THE SOIL WITHIN MITIGATION AREA.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- REMOVE THREE SNAGS ALONG WITH ANCHORING SOIL BALLS AND STORE FOR USE IN MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER. AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

AURA MITIGATION AREA #3
BVW "Q" AREA
(ROAD C: STA. 8+60 TO 9+60)
 SCALE: 1"=20'

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
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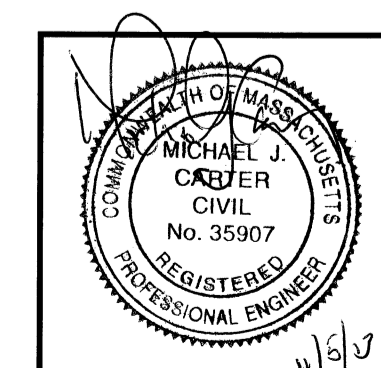
DEFINITIVE SUBDIVISION OF LAND IN BOLTON
CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

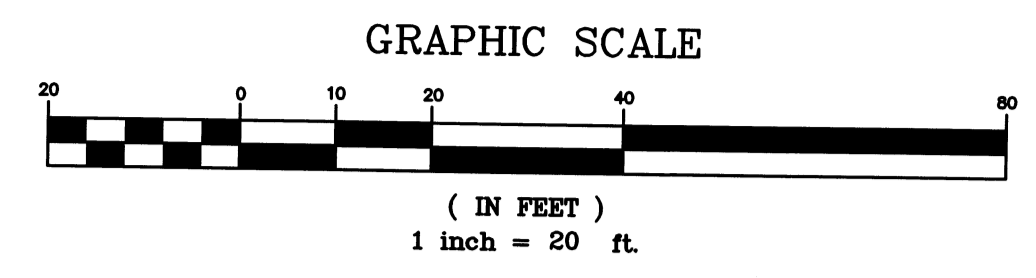
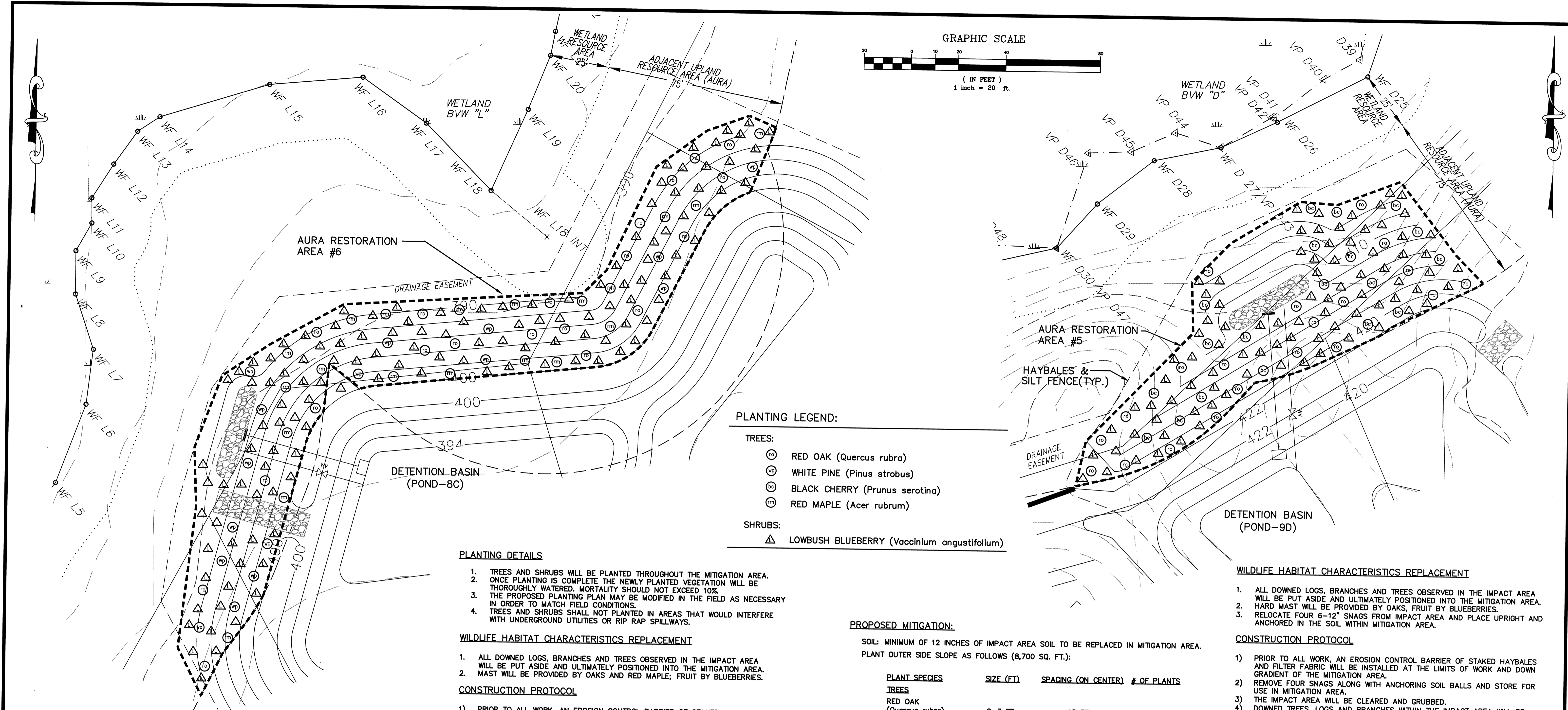
RESOURCE AREA RESTORATION PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD-RESTORE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 58 OF 64





PLANTING LEGEND:

- TREES:**
- ⊙ RED OAK (*Quercus rubra*)
 - ⊕ WHITE PINE (*Pinus strobus*)
 - ⊖ BLACK CHERRY (*Prunus serotina*)
 - ⊗ RED MAPLE (*Acer rubrum*)
- SHRUBS:**
- △ LOWBUSH BLUEBERRY (*Vaccinium angustifolium*)

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA. ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.
- TREES AND SHRUBS SHALL NOT BE PLANTED IN AREAS THAT WOULD INTERFERE WITH UNDERGROUND UTILITIES OR RIP RAP SPILLWAYS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- MAST WILL BE PROVIDED BY OAKS AND RED MAPLE; FRUIT BY BLUEBERRIES.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT OUTER SIDE SLOPE AS FOLLOWS (8,700 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| RED OAK (<i>Quercus rubra</i>) | 2-3 FT | 15 FT | 20 |
| BLACK CHERRY (<i>Prunus serotina</i>) | 3-4 FT | 15 FT | 19 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 87 |

GROUND COVER

SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 7 LBS.

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA. ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- TREES AND SHRUBS SHALL NOT BE PLANTED IN AREAS THAT WOULD INTERFERE WITH UNDERGROUND UTILITIES OR RIP RAP SPILLWAYS.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS, FRUIT BY BLUEBERRIES.
- RELOCATE FOUR 6-12" SNAGS FROM IMPACT AREA AND PLACE UPRIGHT AND ANCHORED IN THE SOIL WITHIN MITIGATION AREA.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- REMOVE FOUR SNAGS ALONG WITH ANCHORING SOIL BALLS AND STORE FOR USE IN MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT OUTER SIDE SLOPES AS FOLLOWS (12,700 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| RED OAK (<i>Quercus rubra</i>) | 2-3 FT | 15 FT | 20 |
| RED MAPLE (<i>Acer rubrum</i>) | 2-3 FT | 15 FT | 20 |
| WHITE PINE (<i>Pinus strobus</i>) | 2-3 FT | 15 FT | 16 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 127 |

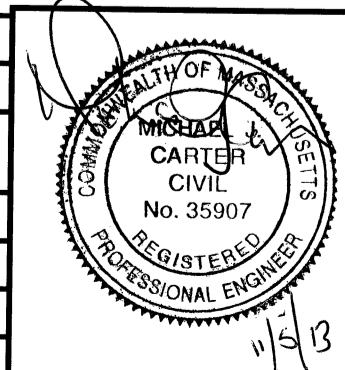
GROUND COVER

SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 10 LBS.

AURA MITIGATION AREA #6
 BVW "L" AREA
 (DETENTION BASIN 8C)
 SCALE: 1"=20'

AURA MITIGATION AREA #5
 BVW "D" AREA
 (DETENTION BASIN 9D)
 SCALE: 1"=20'

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 2 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |



DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

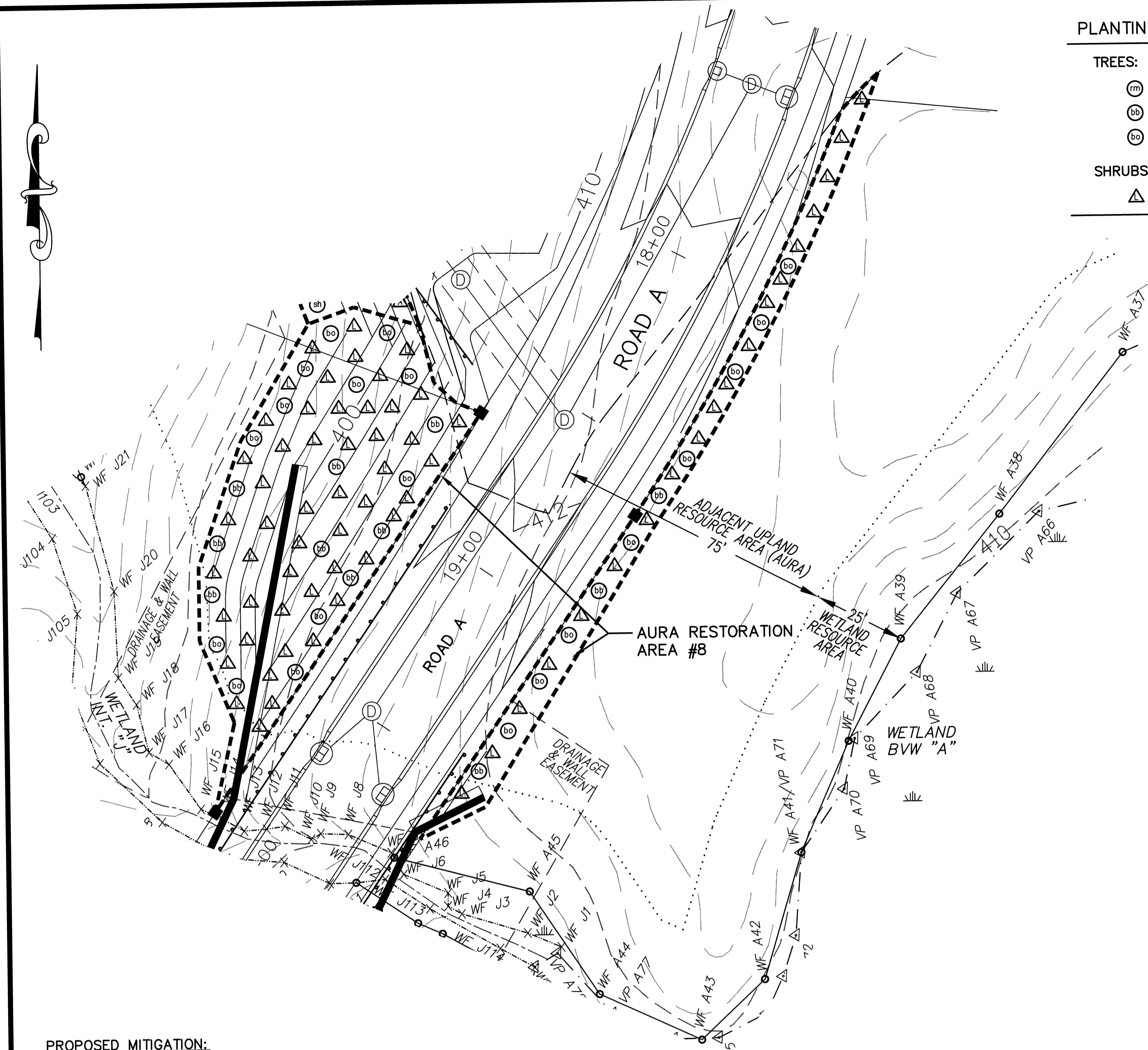
RESOURCE AREA RESTORATION PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

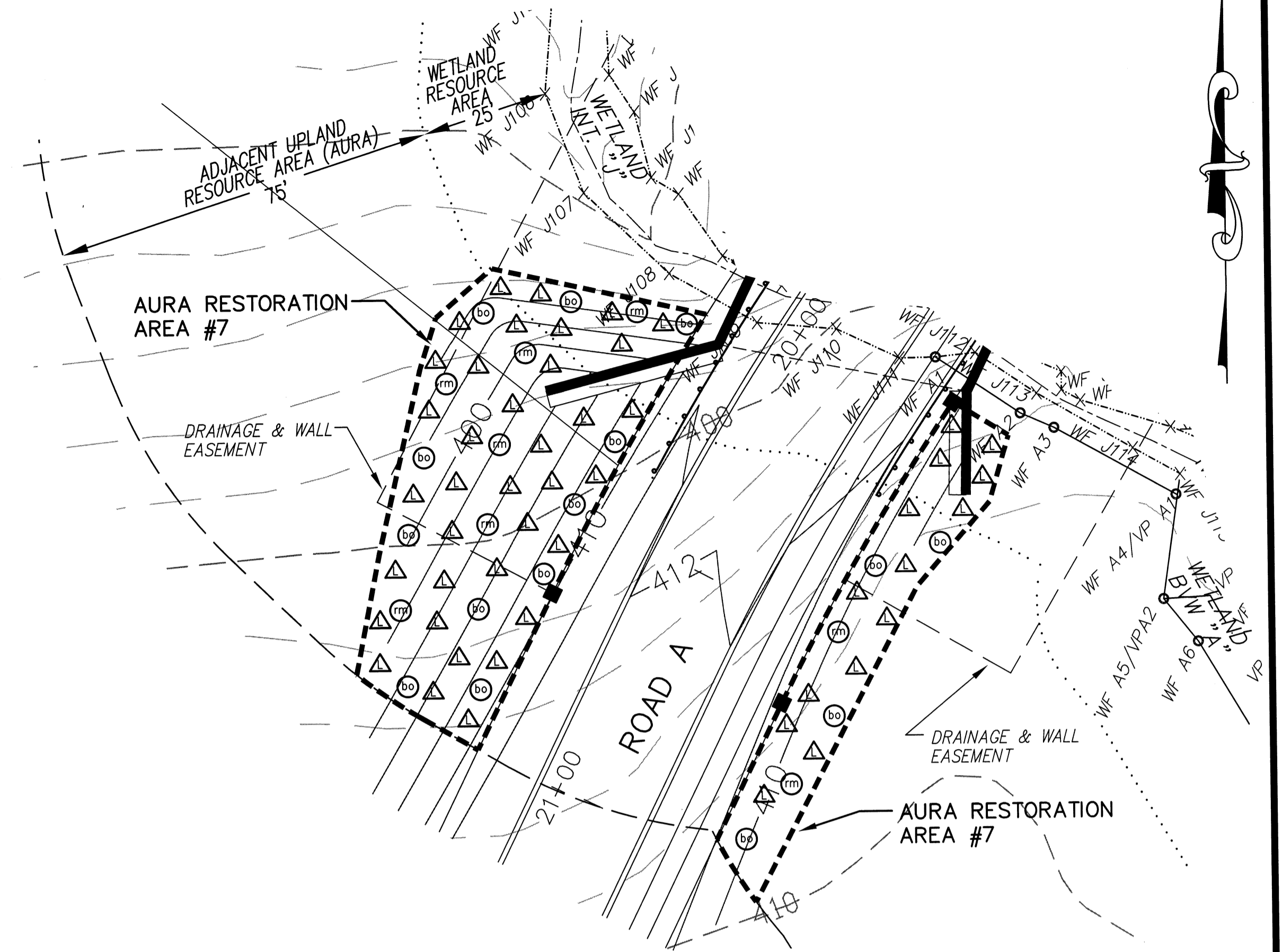
JOB NO./FILE NAME: 0213-DEF-LOT-MOD/RESTORE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.

PLAN NO. 59 OF 64



PLANTING LEGEND:

- TREES:
- ⊙ RED MAPLE (*Acer rubrum*)
 - ⊙ BLACK BIRCH (*Betula lenta*)
 - ⊙ BLACK OAK (*Quercus velutina*)
- SHRUBS:
- △ LOWBUSH BLUEBERRY (*Vaccinium angustifolium*)



PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT SIDE SLOPES AS FOLLOWS (6,900 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| BLACK OAK (<i>Quercus velutina</i>) | 3-4 FT | 15 FT | 20 |
| BLACK BIRCH (<i>Betula lenta</i>) | 3-4 FT | 15 FT | 11 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 69 |

GROUND COVER
 SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SG. FT. = 5.5 LBS.

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA. ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- TREES AND SHRUBS SHALL NOT BE PLANTED WITHIN WALL GEOGRID OR IN AREAS THAT MAY AFFECT THE STRUCTURAL INTEGRITY OF A RETAINING WALL.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS.
- RELOCATE TWO 6-12" SNAGS FROM IMPACT AREA AND PLACE UPRIGHT AND ANCHORED IN THE SOIL WITHIN MITIGATION AREA.
- PLACE ROCK PILE WITH CREVICES IN MITIGATION AREA.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- REMOVE TWO SNAGS ALONG WITH ANCHORING SOIL BALLS AND STORE FOR USE IN MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- PLACE LARGE WOODY DEBRIS AND SNAGS AND CONSTRUCT ROCK PILE WITH CREVICE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

**AURA MITIGATION AREA #8
 INTERMITTENT STREAM "J" & BVW "A" AREA
 (ROAD A: STA. 17+50 TO 20+00)**

SCALE: 1"=20'

PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT OUTER SIDE SLOPES AS FOLLOWS (5,000 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| BLACK OAK (<i>Quercus velutina</i>) | 3-4 FT | 15 FT | 15 |
| RED MAPLE (<i>Acer rubrum</i>) | 2-3 FT | 15 FT | 8 |
| SHRUBS | | | |
| LOWBUSH BLUEBERRY (<i>Vaccinium angustifolium</i>) | 6-12 in | 10 FT | 50 |

GROUND COVER
 SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SG. FT. = 4 LBS.

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
- ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- TREES AND SHRUBS SHALL NOT BE PLANTED WITHIN WALL GEOGRID OR IN AREAS THAT MAY AFFECT THE STRUCTURAL INTEGRITY OF A RETAINING WALL.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

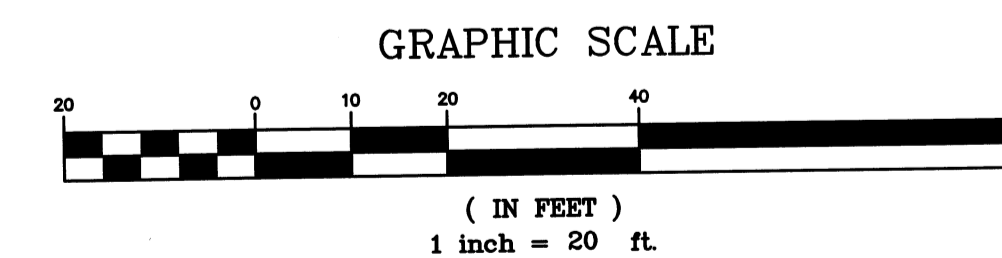
- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS, DRY MAST BY RED MAPLE.
- RELOCATE TWO 6-12" SNAGS AND ONE 12-18" SNAG FROM IMPACT AREA AND PLACE UPRIGHT AND ANCHORED IN THE SOIL WITHIN MITIGATION AREA.
- PLACE ROCK PILE WITH CREVICES IN MITIGATION AREA.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- REMOVE THREE SNAGS ALONG WITH ANCHORING SOIL BALLS AND STORE FOR USE IN MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA ALONG WITH SNAGS.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- PLACE LARGE WOODY DEBRIS AND SNAGS AND CONSTRUCT ROCK PILE WITH CREVICE.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

**AURA MITIGATION AREA #7
 INTERMITTENT STREAM "J" & BVW "A" AREA
 (ROAD A: STA. 20+00 TO 21+00)**

SCALE: 1"=20'



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 2 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

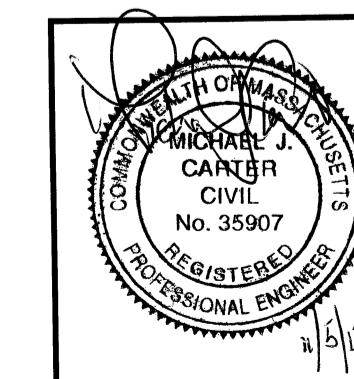
**CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS**

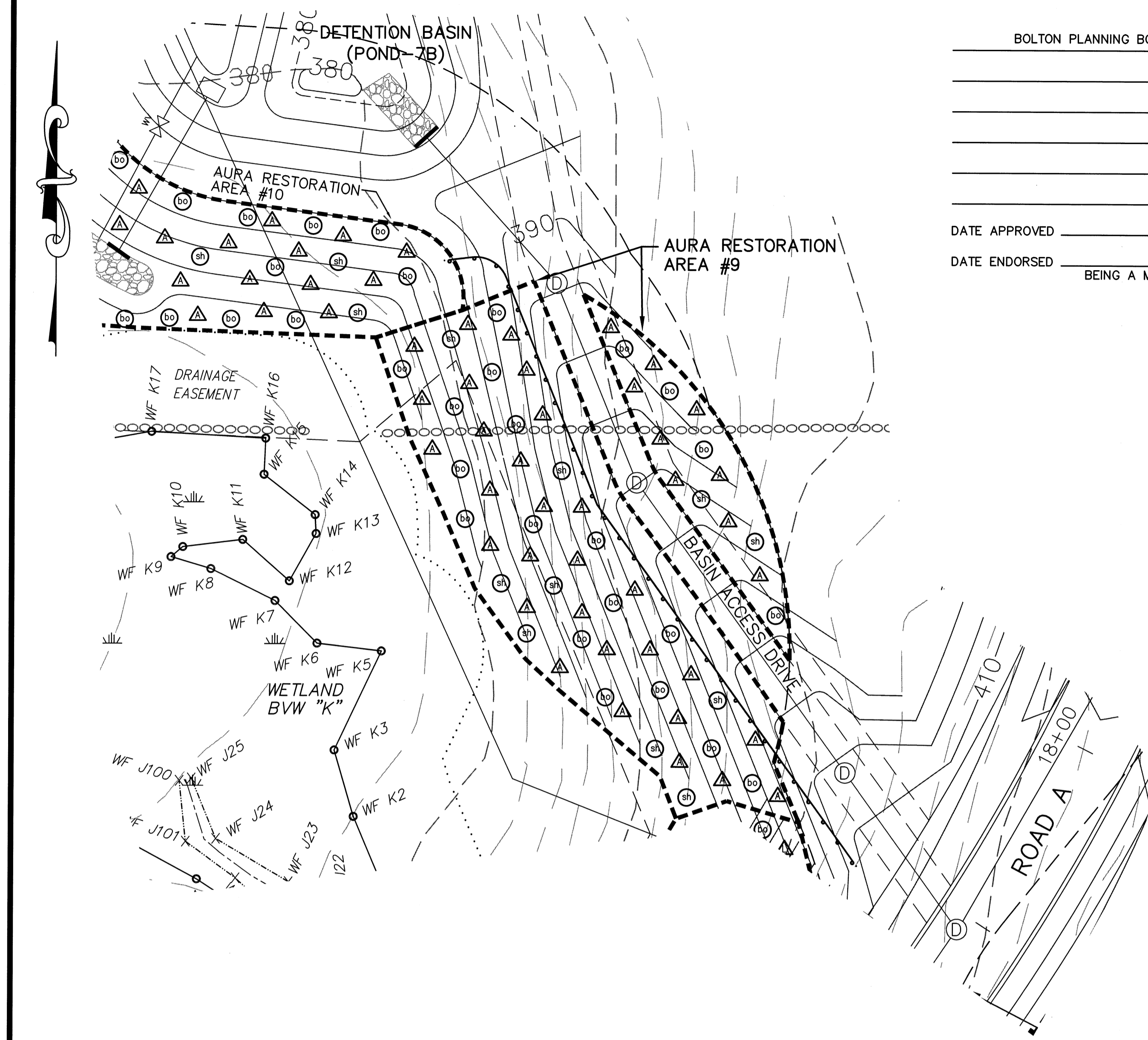
RESOURCE AREA RESTORATION PLAN

GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

| | | |
|--|---|----------------------|
| JOB NO./FILE NAME: 0213-DEF-LOT-MOD\ RESTORE.DWG | DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. | PLAN NO. 60 OF 64 |
|--|---|----------------------|





BOLTON PLANNING BOARD

DATE APPROVED _____

DATE ENDORSED _____

BEING A MAJORITY

I, THE TOWN CLERK OF THE TOWN OF BOLTON, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BOLTON PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

DATE _____ TOWN CLERK _____

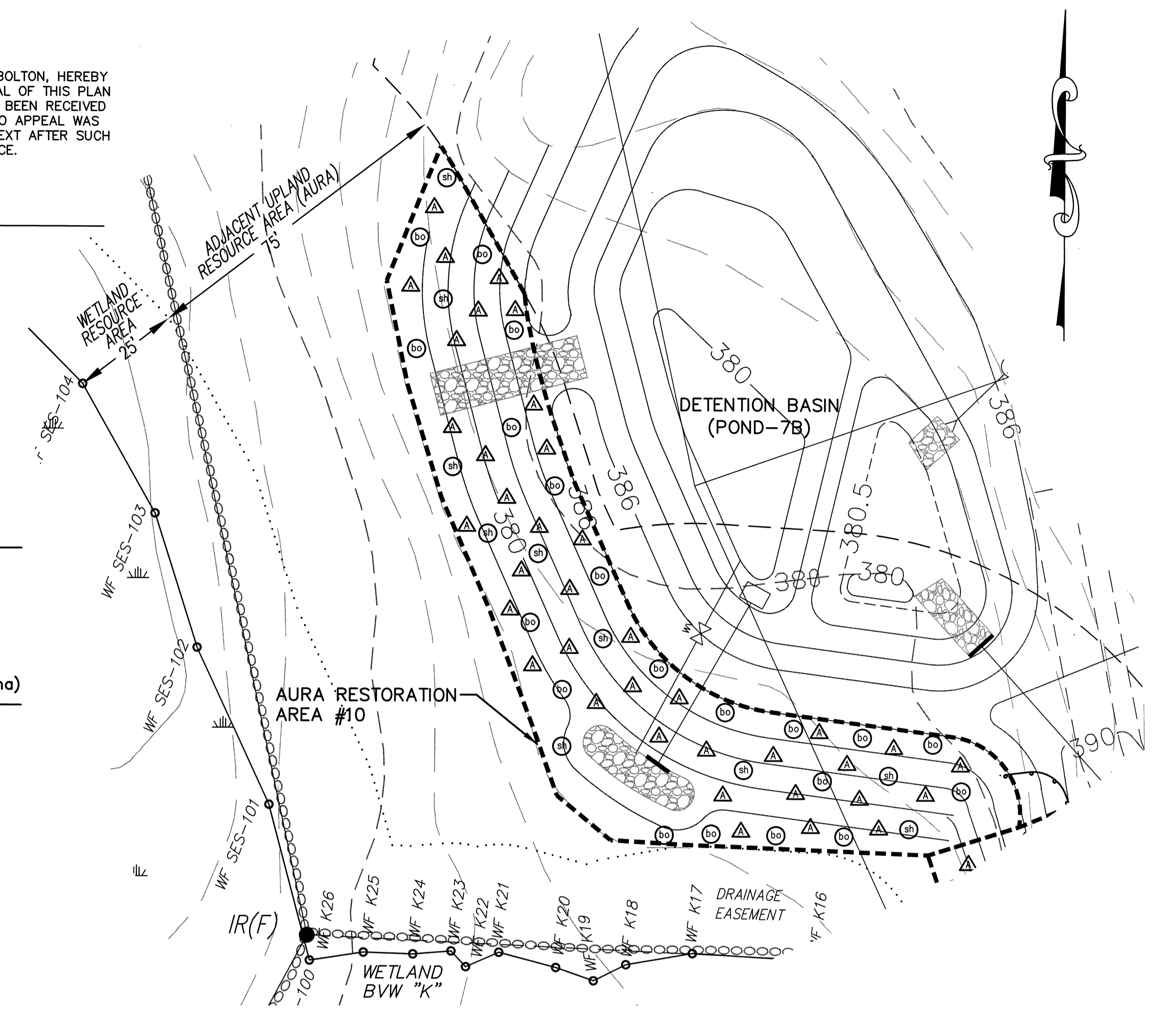
PLANTING LEGEND:

TREES:

- ⊙ BLACK OAK (*Quercus velutina*)
- ⊙ SHAGBARK HICKORY (*Carya ovata*)

SHRUBS:

- △ AMERICAN HAZELNUT (*Corylus Americana*)



PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT SIDE SLOPES AS FOLLOWS (6,800 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| BLACK OAK (<i>Quercus velutina</i>) | 3-4 FT | 15 FT | 20 |
| SHAGBARK HICKORY (<i>Carya ovata</i>) | 2-3 FT | 15 FT | 10 |
| SHRUBS | | | |
| AMERICAN HAZELNUT (<i>Corylus Americana</i>) | 12-18 in | 10 FT | 38 |

GROUND COVER
 SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 5.5 LBS.

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
- ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS, HICKORY & HAZELNUT.
- RELOCATE PORTION OF STONE WALL INTO MITIGATION AREA (AVOID BLOCKING WILDLIFE MOVEMENT).

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- REMOVE PORTION OF STONE WALL AND STORE FOR PLACEMENT INTO MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- PLACE LARGE WOODY DEBRIS AND CONSTRUCT ROCK WALL.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

PROPOSED MITIGATION:

SOIL: MINIMUM OF 12 INCHES OF IMPACT AREA SOIL TO BE REPLACED IN MITIGATION AREA.
 PLANT OUTER SIDE SLOPES AS FOLLOWS (6,800 SQ. FT.):

| PLANT SPECIES | SIZE (FT) | SPACING (ON CENTER) | # OF PLANTS |
|--|-----------|---------------------|-------------|
| TREES | | | |
| BLACK OAK (<i>Quercus velutina</i>) | 3-4 FT | 15 FT | 20 |
| SHAGBARK HICKORY (<i>Carya ovata</i>) | 2-3 FT | 15 FT | 10 |
| SHRUBS | | | |
| AMERICAN HAZELNUT (<i>Corylus Americana</i>) | 12-18 in | 10 FT | 38 |

GROUND COVER
 SEED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX & HYDRO-MULCH - 1 LB/1250 SQ. FT. = 5.5 LBS.

PLANTING DETAILS

- TREES AND SHRUBS WILL BE PLANTED THROUGHOUT THE MITIGATION AREA.
- ONCE PLANTING IS COMPLETE THE NEWLY PLANTED VEGETATION WILL BE THOROUGHLY WATERED. MORTALITY SHOULD NOT EXCEED 10%.
- TREES AND SHRUBS SHALL NOT BE PLANTED IN AREAS THAT WOULD INTERFERE WITH UNDERGROUND UTILITIES OR RIP RAP SPILLWAYS.
- THE PROPOSED PLANTING PLAN MAY BE MODIFIED IN THE FIELD AS NECESSARY IN ORDER TO MATCH FIELD CONDITIONS.

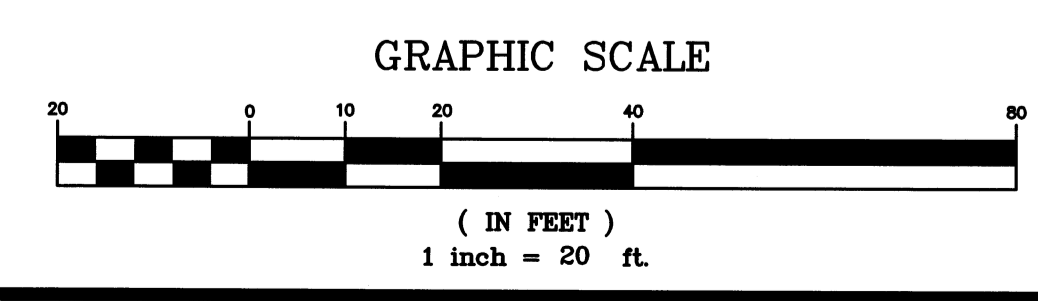
WILDLIFE HABITAT CHARACTERISTICS REPLACEMENT

- ALL DOWNED LOGS, BRANCHES AND TREES OBSERVED IN THE IMPACT AREA WILL BE PUT ASIDE AND ULTIMATELY POSITIONED INTO THE MITIGATION AREA.
- HARD MAST WILL BE PROVIDED BY OAKS, HICKORY & HAZELNUT.

CONSTRUCTION PROTOCOL

- PRIOR TO ALL WORK, AN EROSION CONTROL BARRIER OF STAKED HAYBALES AND FILTER FABRIC WILL BE INSTALLED AT THE LIMITS OF WORK AND DOWN GRADIENT OF THE MITIGATION AREA.
- THE IMPACT AREA WILL BE CLEARED AND GRUBBED.
- DOWNED TREES, LOGS AND BRANCHES WITHIN THE IMPACT AREA WILL BE STORED TO BE PLACED LATER INTO THE MITIGATION AREA.
- THE IMPACT AREA TOPSOIL WILL BE REMOVED, STOCKPILED, AND COVERED, TO BE USED LATER IN THE MITIGATION AREA.
- THE MITIGATION AREA WILL BE BROUGHT TO WITHIN 12 INCHES OF FINAL GRADE.
- THE MITIGATION AREA WILL BE BACKFILLED WITH IMPACT AREA SOIL SO THAT A TOTAL OF 12 INCHES OF NATIVE TOP SOIL IS PRESENT TO CREATE THE FINAL GRADE.
- PLACE LARGE WOODY DEBRIS.
- THE MITIGATION AREA WILL BE PLANTED WITH NATIVE WETLAND SPECIES (SEE TABLE). PLANTING SHALL BE DONE BETWEEN APRIL AND SEPTEMBER.
- AFTER PLANTING IS COMPLETED THE MITIGATION AREA WILL BE HYDRO-MULCHED.

AURA MITIGATION AREA #9
 BVW "K" AREA
 (ACCESS DRIVE DETENTION BASIN 7B)
 SCALE: 1"=20'



AURA MITIGATION AREA #10
 BVW "K" AREA
 (DETENTION BASIN 7B)
 SCALE: 1"=20'

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
 BOLTON, MASSACHUSETTS

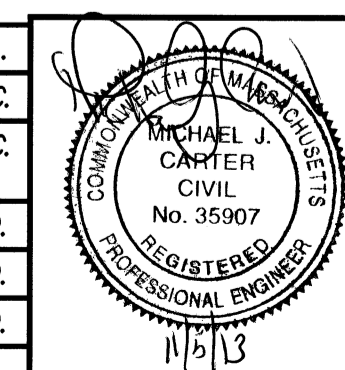
RESOURCE AREA RESTORATION PLAN

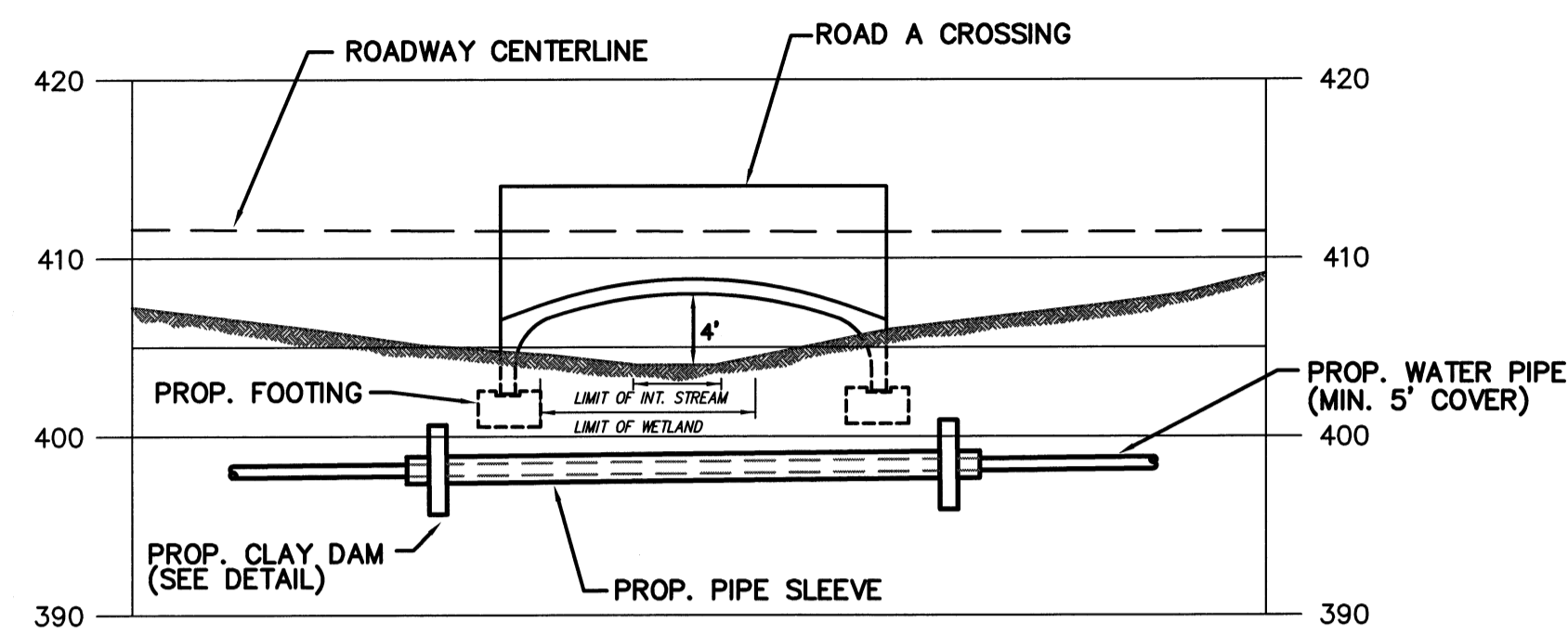
GCG ASSOCIATES, INC.
 WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

JOB NO. \FILE NAME: 0213-DEF-LOT-MOD-RESTORE.DWG
 DESIGNED BY: J.R.D.
 DRAWN BY: J.R.D.
 CHECKED BY: M.J.C.
 PLAN NO. 61 of 64

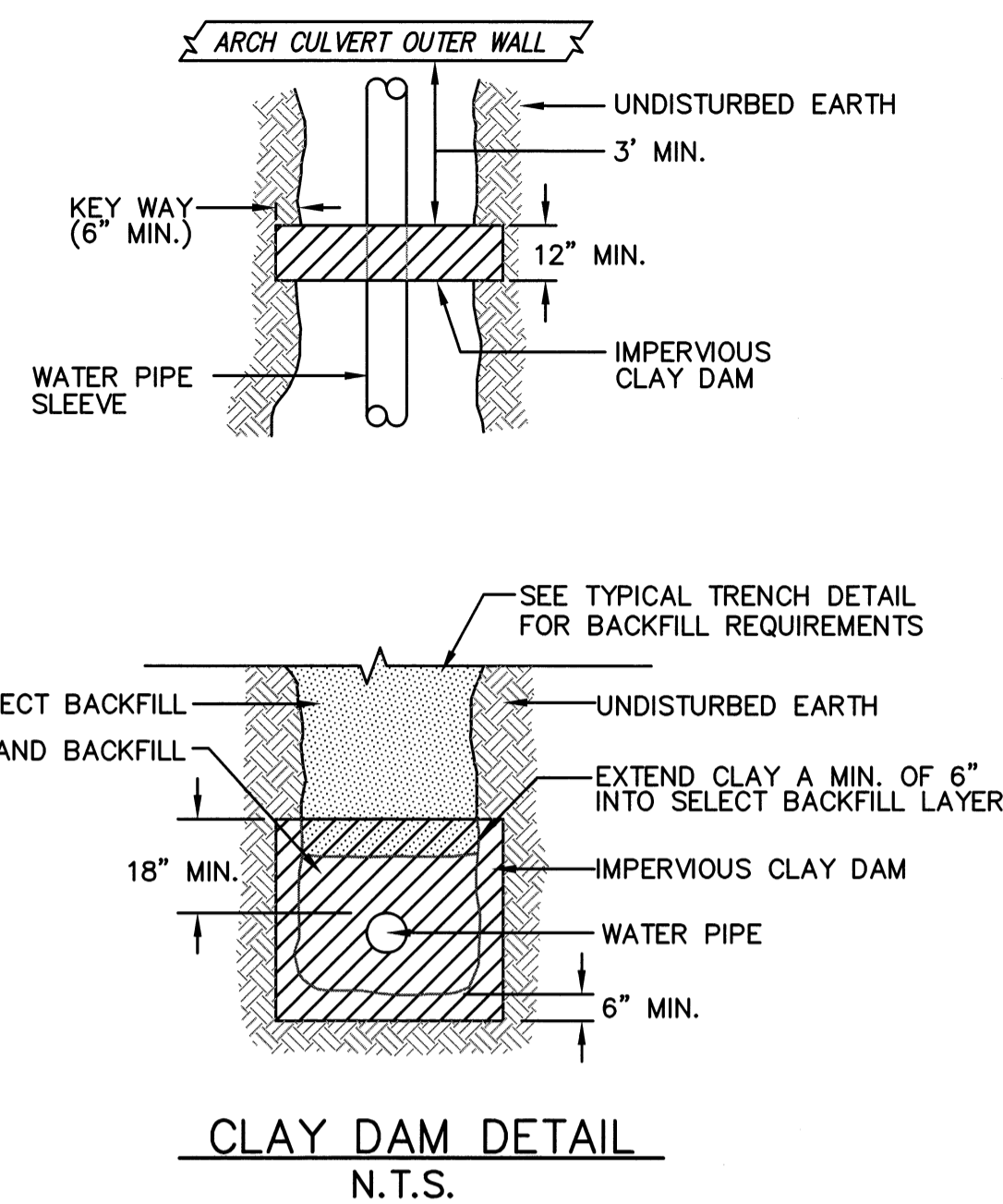
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 2 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |



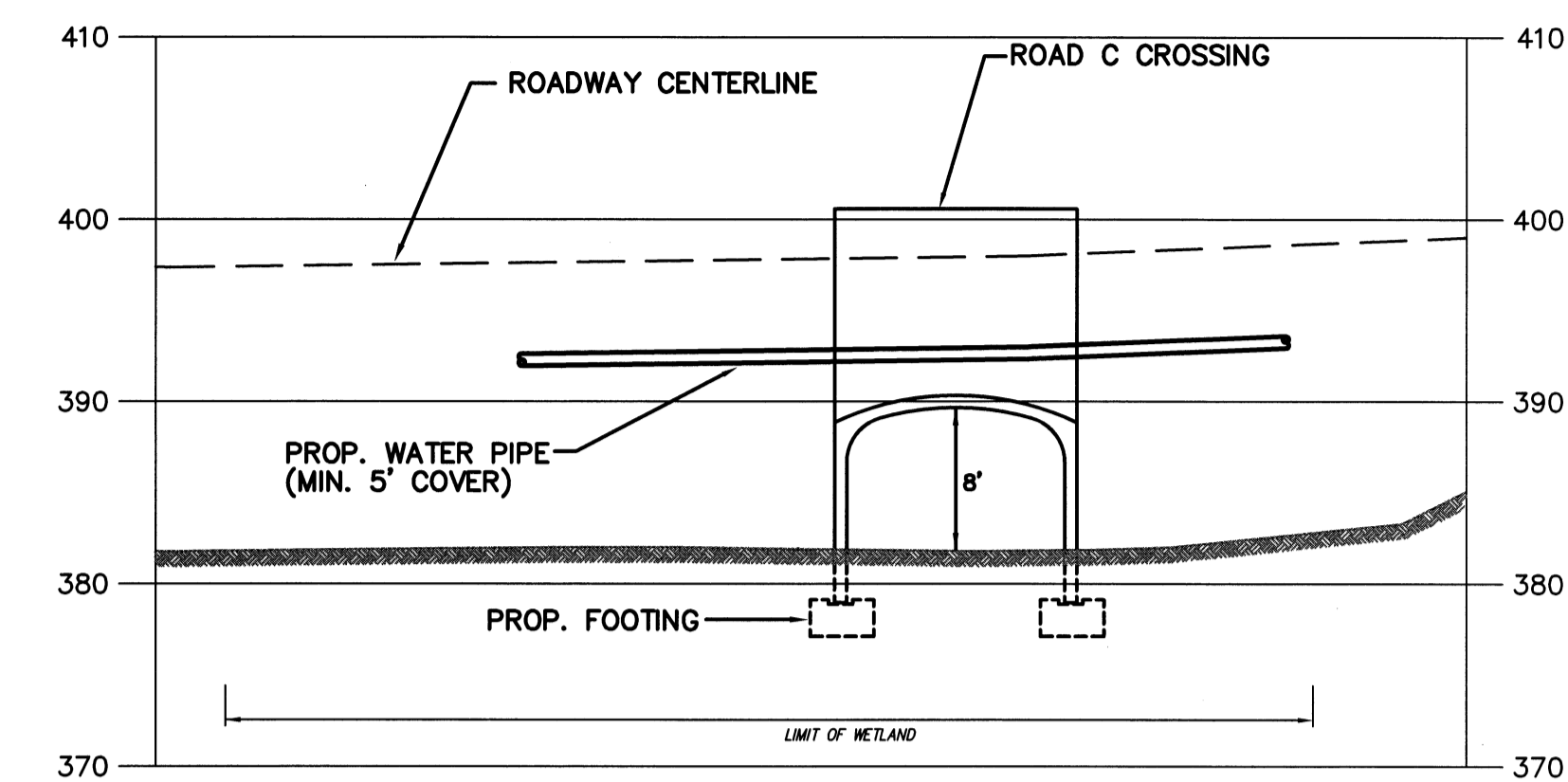


- NOTES:**
- 1.) THE WATER LINE SHALL BE SLEEVED UNDER THE CULVERT TO PREVENT THE NEED FOR FUTURE EXCAVATION WITHIN THE INTERMITTENT STREAM CHANNEL.
 - 2.) THE EXISTING INTERMITTENT STREAM SHALL BE RESTORED TO ITS ORIGINAL CONDITION IN ACCORDANCE WITH THE BANK RESTORATION NOTES.

**WATER LINE CROSSING
AT ROAD A**
SCALE: 1"=20'

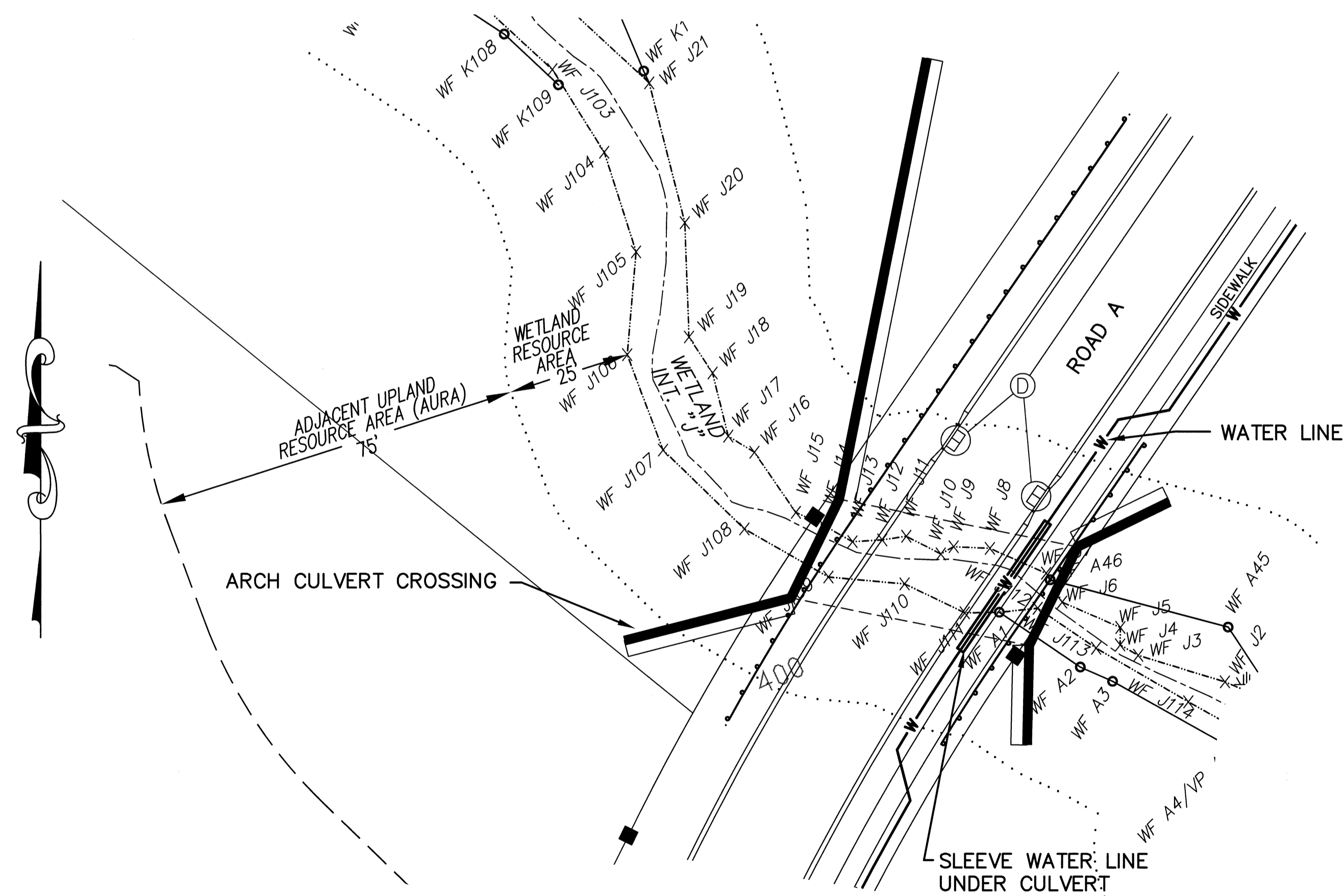


CLAY DAM DETAIL
N.T.S.



- NOTES:**
- 1.) THE WATER LINE SHALL BE INSTALLED ABOVE THE TOP OF THE PROPOSED CULVERT AS SHOWN.
 - 2.) THE WATER LINE SHALL BE INSULATED WHERE A MINIMUM 5' COVER AND 5' SEPARATION FROM THE TOP OF THE CULVERT CAN NOT BE MAINTAINED.

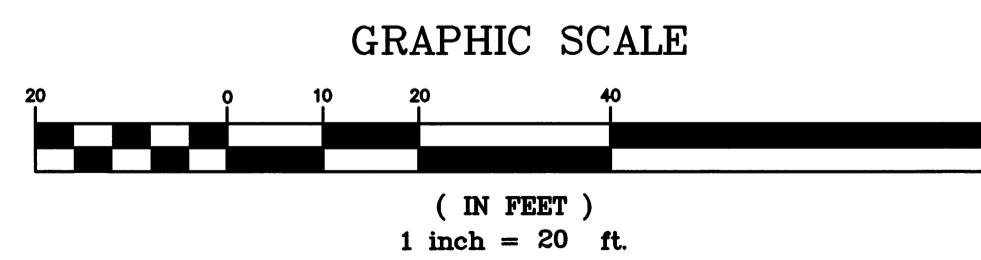
**WATER LINE CROSSING
AT ROAD C**
SCALE: 1"=20'



BANK RESTORATION NOTES:

1. ALL WORK WITHIN THE CHANNEL WILL BE DONE DURING THE DRY SEASON WHEN THE STREAM IS NOT FLOWING.
2. EROSION CONTROL WILL BE PLACED AROUND WORK AREA.
3. LARGE STONES AND LARGE WOODY DEBRIS WILL BE REMOVED FROM THE WORK AREA AND STOCKPILED.
4. THE WATER TRENCH WILL BE EXCAVATED AND BACK FILLED WITH BEDDING STONE. THE WATER PIPE AND PIPE SLEEVE WILL BE PLACED ON THE BEDDING STONE AND THE TRENCH RETURNED TO ORIGINAL GRADE.
5. A CLAY DAM WILL BE PLACED WITHIN THE WATER PIPE TRENCH ON EITHER SIDE OF THE STREAM TO BLOCK ANY STREAM WATER SEEPAGE MOVING WITHIN THE TRENCH (SEE DETAIL THIS SHEET).
6. LARGE STONES AND WOODY DEBRIS WILL BE RETURNED TO THEIR ORIGINAL LOCATIONS.
7. ONCE STABILIZED BY LARGE STONES, THE EROSION CONTROL BARRIER WILL BE REMOVED FROM THE STREAM BED.

BANK RESTORATION PLAN
SCALE: 1"=20'



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|--|--------|
| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 2 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |
| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

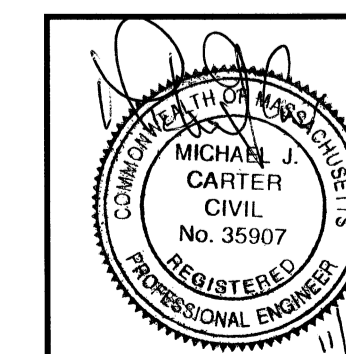
RESOURCE AREA RESTORATION PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=20' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD/RESTORE.DWG
DESIGNED BY: J.R.D.
DRAWN BY: J.R.D.
CHECKED BY: M.J.C.

PLAN NO.
62 OF 64



PHASE SCHEDULE

- PHASE 1 - ROAD "A" STATION 0+00 TO 13+00
LOTS 1A-7A & 68A-78A
- PHASE 2 - ROAD "B" STATION 29+00 TO SPECTACLE HILL ROAD
ROAD "B" STATION 0+00 TO 5+50
ROAD "C" STATION 0+00 TO 4+50
LOTS 16A-24A, 48A-54A, 58A-61A & 62B
- PHASE 3 - ROAD "A" STATION 13+00 TO 29+00
LOTS 8A-15A & 63A-67A
- PHASE 4 - ROAD "B" STATION 5+50 TO CUL-DE-SAC
ROAD "C" STATION 4+50 TO CUL-DE-SAC
LOTS 25A-47A, 55A-56A, & 57B

CONSTRUCTION SEQUENCING NOTES:

- PHASE 1**
1. STAKE OUT THE LIMITS OF WORK, EROSION CONTROLS AND ROADWAY CENTERLINE FOR THE PHASE.
 2. INSTALL EROSION CONTROL MEASURES THROUGHOUT THE PHASE AREA.
 3. CONDUCT A SITE MEETING WITH THE CONSERVATION COMMISSION TO REVIEW AND APPROVE: EROSION CONTROL MEASURES, STOCKPILE AND STAGING AREAS, CONSTRUCTION SCHEDULE, TEMPORARY BMPs, ETC.
 4. PERFORM TREE CLEARING AND GRUBBING ACTIVITIES FOR ROADWAY AND ASSOCIATED UTILITIES.
 5. FLAG SEPTIC SYSTEM FIELD AREAS TO PROTECT FROM POSSIBLE DISTURBANCE IN AREAS CLEARED.
 6. UTILIZE THE EXISTING DEPRESSION ALONG CENTURY MILL ROAD AS A TEMPORARY SEDIMENT BASIN. ALSO CONSTRUCT A TEMPORARY SEDIMENT BASIN ADJACENT TO, BUT OUTSIDE THE LIMITS OF ROAD "A". THE TEMPORARY SEDIMENT BASINS WILL BE USED TO CONTROL RUNOFF AND EROSION UNTIL THE PHASE IS STABILIZED AND THE PERMANENT DRAINAGE SYSTEM IS CONSTRUCTED. IF NECESSARY, THE EXISTING DEPRESSION ALONG CENTURY MILL ROAD MAY BE EXCAVATED DEEPER HOWEVER THE BOTTOM OF THE TEMPORARY BASIN MUST BE AT LEAST 18" ABOVE THE BOTTOM ELEVATION OF THE PROPOSED PERMANENT SUBSURFACE INFILTRATION BASIN (POND 3-B) WHICH IS PROPOSED IN THE SAME AREA. THE PURPOSE OF THIS SEPARATION IS TO PROTECT THE EXISTING SOILS FROM BECOMING CLOGGED AND AFFECTING THE LONG TERM PERFORMANCE OF THE PERMANENT INFILTRATION SYSTEM.
 7. STRIP & STOCKPILE TOP SOIL.
 8. INSTALL TREE MARKINGS ALONG TRAIL EASEMENT.
 9. PERFORM ROADWAY GRADING AND EARTHWORK ACTIVITIES.
 10. INSTALL UTILITIES FROM LOW POINT TO HIGH POINTS INCLUDING FIRE CISTERN AND SLEEVES FOR WATER SERVICES.
 11. INSTALL ROADWAY GRAVEL BASE.
 12. FINE GRADING AND COMPACTION OF GRAVEL ROAD BASE.
 13. CONSTRUCT A TEMPORARY TURNAROUND AT THE LIMIT OF THE PHASE.
 14. INSTALL BINDER COURSE OF PAVEMENT.
 15. STABILIZE EXPOSED SOILS ASSOCIATED WITH CONSTRUCTION.
 16. REMOVE ALL SILT AND SEDIMENT FROM THE TEMPORARY SEDIMENT BASINS AND CONSTRUCT THE TWO SUBSURFACE INFILTRATION SYSTEMS.

- PHASE 2**
1. STAKE OUT THE LIMITS OF WORK, EROSION CONTROLS AND ROADWAY CENTERLINE FOR THE PHASE.
 2. INSTALL EROSION CONTROL MEASURES THROUGHOUT THE PHASE AREA.
 3. CONDUCT A SITE MEETING WITH THE CONSERVATION COMMISSION REVIEW AND APPROVE: EROSION CONTROL MEASURES, STOCKPILE AND STAGING AREAS, CONSTRUCTION SCHEDULE, TEMPORARY BMPs, ETC.
 4. PERFORM TREE CLEARING AND GRUBBING ACTIVITIES FOR ROADWAY AND ASSOCIATED UTILITIES. THE INTERIOR AREA OF THE DETENTION BASIN SHALL BE CLEARED BUT NOT GRUBBED. INSTALL A CONSTRUCTION ENTRANCE PER DETAIL (SEE DETAIL SHEETS).
 5. FLAG SEPTIC SYSTEM FIELD AREAS TO PROTECT FROM POSSIBLE DISTURBANCE IN AREAS CLEARED.
 6. CONSTRUCT DETENTION BASIN BERM (POND-BC) TO ALLOW THE BASIN TO SERVE AS A TEMPORARY SEDIMENT BASIN. STABILIZE THE BASIN SOILS AND CONSTRUCT AURA MITIGATION AREA #6.
 7. STRIP & STOCKPILE TOP SOIL.
 8. PERFORM ROADWAY GRADING AND EARTHWORK ACTIVITIES.
 9. INSTALL UTILITIES FROM LOW POINT TO HIGH POINTS INCLUDING FIRE CISTERN AND SLEEVES FOR WATER SERVICES.
 10. INSTALL ROADWAY GRAVEL BASE.
 11. FINE GRADING AND COMPACTION OF GRAVEL ROAD BASE.
 12. CONSTRUCT AURA MITIGATION AREA #1.
 13. CONSTRUCT A TEMPORARY TURNAROUND AT THE LIMIT OF THE PHASE.
 14. INSTALL BINDER COURSE OF PAVEMENT.
 15. STABILIZE EXPOSED SOILS ASSOCIATED WITH CONSTRUCTION.
 16. GRUB INTERIOR OF DETENTION BASIN (POND-BC), REMOVE ALL SILT AND SEDIMENT, INSTALL SAND BOTTOMS AND FINALIZE BASIN CONSTRUCTION.

- PHASE 3**
1. STAKE OUT THE LIMITS OF WORK, EROSION CONTROLS AND ROADWAY CENTERLINE FOR THE PHASE.
 2. INSTALL EROSION CONTROL MEASURES THROUGHOUT THE PHASE AREA. INSTALL SALAMANDER BARRIER ON EAST SIDE OF ROAD "A". TAKE PHOTOGRAPHS OF ROAD A CROSSING LOCATION.
 3. CONDUCT A SITE MEETING WITH THE CONSERVATION COMMISSION TO REVIEW AND APPROVE: EROSION CONTROL MEASURES, STOCKPILE AND STAGING AREAS, CONSTRUCTION SCHEDULE, TEMPORARY BMPs, ETC.
 4. PERFORM TREE CLEARING AND GRUBBING ACTIVITIES FOR ROADWAY AND ASSOCIATED UTILITIES. THE INTERIOR AREA OF THE DETENTION BASINS SHALL BE CLEARED BUT NOT GRUBBED.
 5. FLAG SEPTIC SYSTEM FIELD AREAS TO PROTECT FROM POSSIBLE DISTURBANCE IN AREAS CLEARED.
 6. CONSTRUCT DETENTION BASIN BERMS (POND 7B, 7D AND 8B) TO ALLOW THE BASINS TO SERVE AS TEMPORARY SEDIMENT BASINS. STABILIZE THE BASIN SOILS AND CONSTRUCT AURA MITIGATION AREA #9 & #10.
 7. CONSTRUCT WETLAND CROSSING ON ROAD A.
 8. STRIP & STOCKPILE TOP SOIL.
 9. PERFORM ROADWAY GRADING AND EARTHWORK ACTIVITIES.
 10. INSTALL UTILITIES FROM LOW POINT TO HIGH POINTS INCLUDING FIRE CISTERN AND SLEEVES FOR WATER SERVICES.
 11. INSTALL ROADWAY GRAVEL BASE. INSTALL SALAMANDER BARRIER ON WEST SIDE OF ROAD "A".
 12. FINE GRADING AND COMPACTION OF GRAVEL ROAD BASE.
 13. CONSTRUCT AURA MITIGATION AREA #7 & #8.
 14. INSTALL BINDER COURSE OF PAVEMENT.
 15. STABILIZE EXPOSED SOILS ASSOCIATED WITH CONSTRUCTION.
 16. GRUB INTERIOR OF DETENTION BASIN, REMOVE ALL SILT AND SEDIMENT, INSTALL SAND BOTTOMS, AND FINALIZE BASIN CONSTRUCTION.

CONSTRUCTION SEQUENCING NOTES (CONT'D):

- PHASE 4**
1. STAKE OUT THE LIMITS OF WORK, EROSION CONTROLS AND ROADWAY CENTERLINE FOR THE PHASE.
 2. INSTALL EROSION CONTROL MEASURES THROUGHOUT THE PHASE AREA. TAKE PHOTOGRAPHS OF ROAD C CROSSING LOCATION.
 3. CONDUCT A SITE MEETING WITH THE CONSERVATION COMMISSION TO REVIEW AND APPROVE: EROSION CONTROL MEASURES, STOCKPILE AND STAGING AREAS, CONSTRUCTION SCHEDULE, TEMPORARY BMPs, ETC.
 4. PERFORM TREE CLEARING AND GRUBBING ACTIVITIES FOR ROADWAY AND ASSOCIATED UTILITIES. THE INTERIOR OF THE DETENTION BASINS SHALL BE CLEARED BUT NOT GRUBBED.
 5. FLAG SEPTIC SYSTEM FIELD AREAS TO PROTECT FROM POSSIBLE DISTURBANCE IN AREAS CLEARED.
 6. CONSTRUCT DETENTION BASIN BERMS (POND 9B, 9C & 9D) TO ALLOW THE BASINS TO SERVE AS TEMPORARY SEDIMENT BASINS. CONSTRUCT SWALES ASSOCIATED WITH BASINS. STABILIZE THE BASIN AND SWALE SOILS AND CONSTRUCT AURA MITIGATION AREAS #4 & #5. EXCAVATE WETLAND SOILS FOR RE-USE IN REPLICATION AREA.
 7. CONSTRUCT WETLAND CROSSING ON ROAD C.
 8. STRIP & STOCKPILE TOP SOIL.
 9. CONSTRUCT WETLAND REPLICATION AREA (SEE WETLAND REPLICATION PLAN).
 10. PERFORM ROADWAY GRADING AND EARTHWORK ACTIVITIES.
 11. INSTALL UTILITIES FROM LOW POINT TO HIGH POINTS INCLUDING FIRE CISTERN AND SLEEVES FOR WATER SERVICES.
 12. INSTALL ROADWAY GRAVEL BASE.
 13. FINE GRADING AND COMPACTION OF GRAVEL ROAD BASE.
 14. CONSTRUCT AURA MITIGATION AREAS #2 & #3.
 15. INSTALL BINDER COURSE OF PAVEMENT.
 16. STABILIZE EXPOSED SOILS ASSOCIATED WITH CONSTRUCTION.
 17. GRUB INTERIOR OF DETENTION BASINS, REMOVE ALL SILT AND SEDIMENT, INSTALL SAND BOTTOMS, AND FINALIZE BASIN CONSTRUCTION.

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAKE CERTAIN THAT SILT OR SEDIMENT DOES NOT ENTER EITHER OF THE SUBSURFACE INFILTRATION BASINS. THE PRESENCE OF SILT COULD AFFECT THE INFILTRATION RATES OF THE EXISTING SOILS AND IMPACT THE OVERALL OPERATION OF THE SEPTIC SYSTEMS.
2. ALL STOCKPILES, STAGING AREAS AND SNOW STORAGE AREAS SHALL BE LOCATED OUTSIDE ALL WETLAND RESOURCE AREAS, ADJACENT UPLAND RESOURCE AREAS AND PROPOSED SEPTIC SYSTEM AREAS.
3. THE STOCKPILE AND STAGING AREAS SHOWN ON THIS PHASING PLAN ARE APPROXIMATE AND SUBJECT TO CHANGE DURING CONSTRUCTION.
4. THE PHASING NUMBERING SYSTEM SHOWN IS FOR IDENTIFICATION PURPOSES ONLY. ACTUAL ORDER OF CONSTRUCTION MAY NOT FOLLOW OR COINCIDE WITH THE NUMERICAL ORDER SHOWN (I.E. PHASE 2 & 3 MAY BE CONSTRUCTED PRIOR TO PHASE 1, ETC.).
5. BOTH WETLAND CROSSINGS MAY BE COMPLETED DURING ANY OF THE PHASES SHOWN.
6. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL PROPOSED SEPTIC SYSTEM AREAS AND SUBSURFACE INFILTRATION AREAS ARE PROTECTED FROM ALTERATION UNTIL THE ACTUAL SYSTEMS ARE CONSTRUCTED. THESE AREAS SHALL NOT BE USED FOR STOCKPILES, STAGING AREAS, SNOW STORAGE AREAS, ETC.
7. ALL STOCKPILE AND STAGING AREAS SHALL BE PROTECTED WITH HAY BALES AND SILT FENCE.
8. CRUSHED STONE CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AND UTILIZED AT EACH SUBDIVISION ENTRANCE AND BETWEEN PHASES UNTIL PERMANENT PAVEMENT HAS BEEN PLACED.
9. THE PAVED SUBDIVISION ROADS SHALL BE CLEANED WITH A SWEEPER AS NECESSARY TO PREVENT SILT AND SEDIMENT FROM ENTERING THE SUBDIVISION'S DRAINAGE SYSTEM.
10. POTENTIAL SAFETY FENCING AROUND STOCKPILES OVER 10' IN HEIGHT OR OTHERWISE RESTRICT SITE ACCESS.
11. PRIOR TO CONSTRUCTION OF EACH PHASE THE CONTRACTOR SHALL SUBMIT A PLAN FOR REVIEW AND APPROVAL BY THE CONSERVATION COMMISSION AGENT. SAID PLAN SHALL ILLUSTRATE PROPOSED STOCKPILE AREAS, BORROW PITS, LIMITS OF EARTHWORK AND EROSION CONTROL MEASURES. MATERIALS SHALL BE STORED IN AREAS NOT LEFT MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY COVER OF VEGETATION OR OTHER SUITABLE MATERIAL TO PREVENT EROSION.
12. ANY EXCAVATED MATERIAL OR OTHER SUITABLE MATERIAL TO BE CREATED DURING CONSTRUCTION ACTIVITIES SHALL BE PROTECTED BY INSTALLING ORANGE SAFETY FENCING AROUND THE CONSTRUCTION WORK AREA. EROSION SHALL BE CONTROLLED BY PLACING HAY BALES DIRECTLY DOWN GRADIENT OF ANY EXPOSED SOILS THAT WOULD HAVE EROSION POTENTIAL.
13. OPEN SPACE AREAS SHALL NOT BE USED FOR STOCKPILES, STAGING AREAS OR SNOW STORAGE AREAS. THE CONTRACTOR SHALL ONLY ACCESS THE OPEN SPACE AREA FOR THE WORK PERMITTED WITHIN THE OPEN SPACE.
14. ALL HAZARDOUS MATERIAL, STORAGE AREAS, TRASH AND DEBRIS STORAGE AREAS, VEHICLE FUELING AND MAINTENANCE ACTIVITIES, ADJACENT UPLAND RESOURCE AREAS, ETC. SHALL BE LOCATED MORE THAN 50' FROM ANY ADJACENT UPLAND RESOURCE AREA.
15. ALL TEMPORARY BMPs, PERMANENT BMPs, DRAINAGE SYSTEM, ETC. SHOULD BE MONITORED THROUGHOUT CONSTRUCTION TO ASSURE NO ADVERSE IMPACT TO THE PERMANENT DRAINAGE SYSTEM OR RESOURCE AREAS.
16. EROSION CONTROL BARRIERS SHALL BE INSTALLED JUST PRIOR TO CONSTRUCTION AND SHALL BE REMOVED AT THE EARLIEST POSSIBLE OPPORTUNITY ONCE THE SURROUNDING AREA HAS BEEN FULLY STABILIZED. THE REMOVAL OF THE BARRIERS SHALL BE APPROVED BY THE BOLTON CONSERVATION COMMISSION.
17. ALL RESOURCE AREA RESTORATION PLANS (SHEETS 56-62) SHALL BE CONSTRUCTED AT THE EARLIEST POSSIBLE OPPORTUNITY.

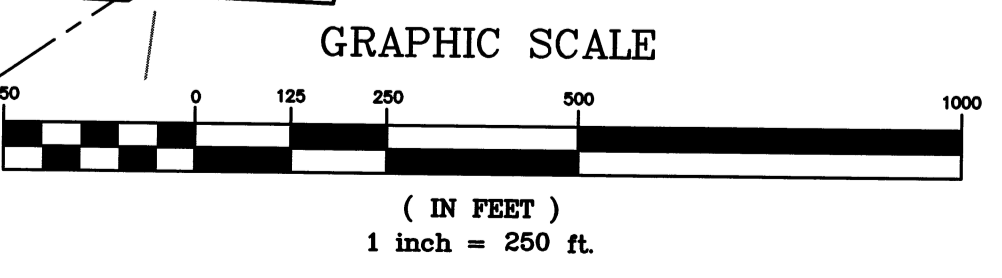
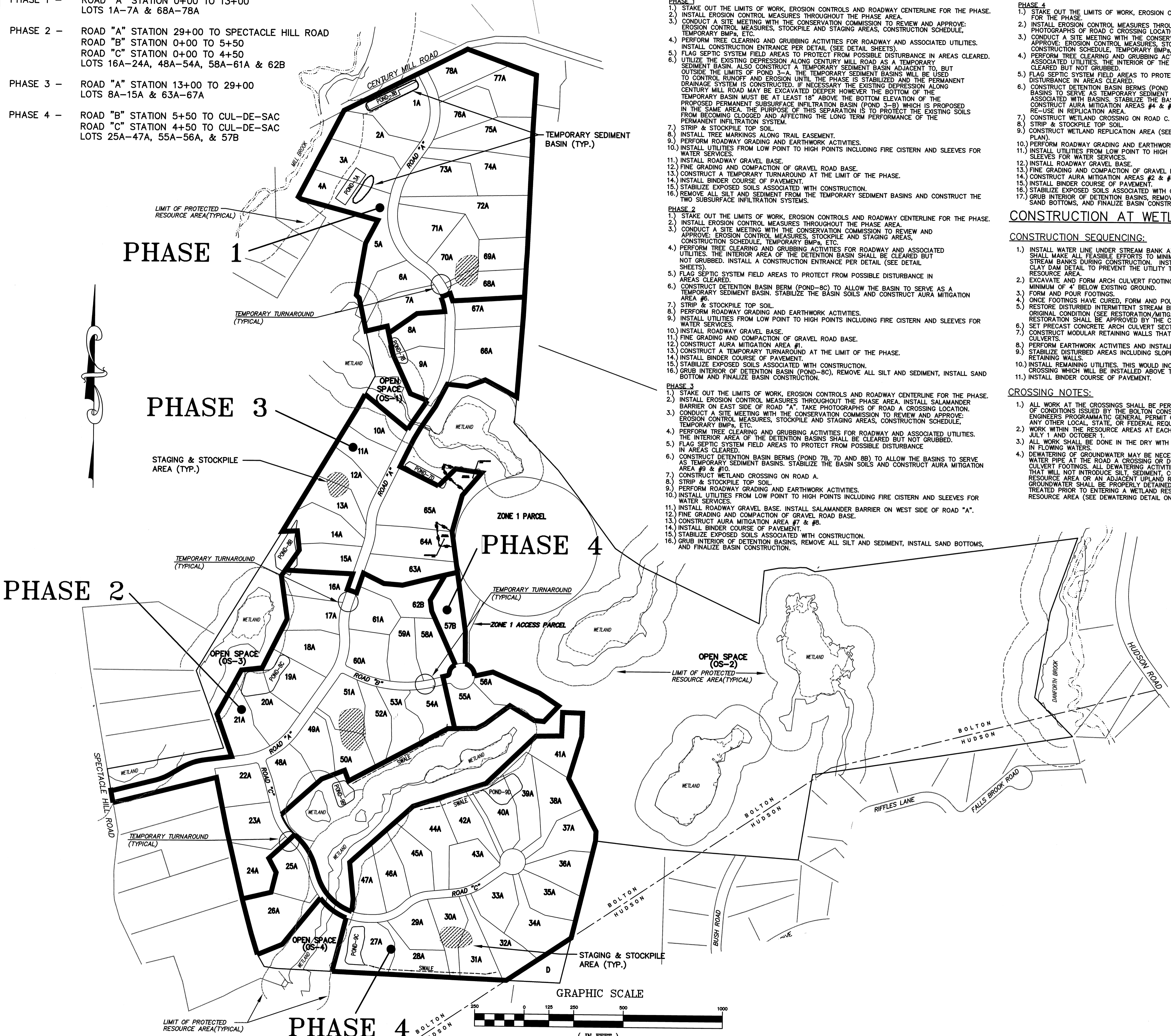
CONSTRUCTION AT WETLAND CROSSINGS:

CONSTRUCTION SEQUENCING:

1. INSTALL WATER LINE UNDER STREAM BANK AT THE ROAD A CROSSING. THE CONTRACTOR SHALL MAKE ALL FEASIBLE EFFORTS TO MINIMIZE DISTURBANCE TO THE INTERMITTENT STREAM BANKS DURING CONSTRUCTION. INSTALL CLAY DAMS IN ACCORDANCE WITH THE CLAY DAM DETAIL TO PREVENT THE UTILITY TRENCH FROM DRAINING THE WETLAND RESOURCE AREA.
2. EXCAVATE AND FORM ARCH CULVERT FOOTINGS. BOTTOM OF FOOTINGS ARE TO BE A MINIMUM OF 4" BELOW EXISTING GROUND.
3. FORM AND POUR FOOTINGS.
4. ONCE FOOTINGS HAVE CURED, FORM AND POUR PEDESTAL WALLS WHERE NECESSARY.
5. RESTORE DISTURBED INTERMITTENT STREAM BED AND WETLANDS TO ITS ORIGINAL CONDITION (SEE RESTORATION/MITIGATION NOTES). THE RESTORATION SHALL BE APPROVED BY THE CONSERVATION COMMISSION.
6. SET PRECAST CONCRETE ARCH CULVERT SECTIONS ON FOOTINGS AND PEDESTAL WALLS.
7. CONSTRUCT MODULAR RETAINING WALLS THAT WILL SERVE AS WING WALLS FOR THE ARCH CULVERTS.
8. PERFORM EARTHWORK ACTIVITIES AND INSTALL GRAVEL ROADWAY BASE.
9. STABILIZE DISTURBED AREAS INCLUDING SLOPES ASSOCIATED WITH THE ROADWAY AND RETAINING WALLS.
10. INSTALL REMAINING UTILITIES. THIS WOULD INCLUDE THE WATER LINE AT THE ROAD C CROSSING WHICH WILL BE INSTALLED ABOVE THE ARCH CULVERT.
11. INSTALL BINDER COURSE OF PAVEMENT.

CROSSING NOTES:

1. ALL WORK AT THE CROSSINGS SHALL BE PERFORMED IN ACCORDANCE WITH THE ORDER OF CONDITIONS ISSUED BY THE BOLTON CONSERVATION COMMISSION, THE ARMY CORPS OF ENGINEERS PROGRAMMATIC GENERAL PERMIT CONDITIONS, NPDES GENERAL PERMIT, AND ANY OTHER LOCAL, STATE, OR FEDERAL REQUIREMENTS.
2. WORK WITHIN THE RESOURCE AREAS AT EACH CROSSING SHALL BE PERFORMED BETWEEN JULY 1 AND OCTOBER 1.
3. ALL WORK SHALL BE DONE IN THE DRY WITH NO OPEN TRENCH EXCAVATION ALLOWED IN FLOWING WATERS.
4. DEWATERING OF GROUNDWATER MAY BE NECESSARY DURING THE INSTALLATION OF THE WATER PIPE AT THE ROAD A CROSSING OR DURING THE INSTALLATION OF THE ARCH CULVERT FOOTING. ALL DEWATERING ACTIVITIES SHALL BE CONDUCTED IN A MANNER THAT WILL NOT INTRODUCE SILT, SEDIMENT, CONTAMINATION, ETC. INTO A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA. DISCHARGED GROUNDWATER SHALL BE PROPERLY DETAINED, SETTLED, FILTERED OR OTHERWISE TREATED PRIOR TO ENTERING A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA (SEE DEWATERING DETAIL ON SHEET 54).



TEMPORARY BMPs:

THROUGHOUT CONSTRUCTION VARIOUS BMPs WILL NEED TO BE UTILIZED IN ORDER TO MANAGE THE SITE AND PROTECT THE VARIOUS WETLAND AND ADJACENT UPLAND RESOURCE AREAS. BELOW ARE SEVERAL BMPs THAT ARE CONSIDERED ACCEPTABLE FOR USE ON THIS PROJECT.

HAY BALES & SILT FENCE: HAY BALES AND SILT FENCE PROVIDE A PHYSICAL BARRIER PREVENTING THE MOVEMENT OF SEDIMENT WITHIN STORMWATER RUNOFF. HAY BALES AND SILT FENCE SHALL BE USED AT ALL LOCATIONS SHOWN ON THE PLANS AS WELL AS ANY OTHER LOCATION DEEMED NECESSARY TO PROVIDE PROTECTION AGAINST EROSION.

SILTSACKS: SILTSACKS SHALL BE INSTALLED IN EACH CATCH BASIN. THE SILTSACKS ARE FILTERS WHICH FILTER SILT AND SEDIMENT THAT MAY COLLECT WITHIN STORMWATER RUNOFF. CRUSHED STONE WILL ALSO BE INSTALLED AROUND EACH CATCH BASIN TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.

TEMPORARY DRAINAGE DITCHES: TEMPORARY DRAINAGE DITCHES WILL BE UTILIZED IN ORDER TO DIVERT STORMWATER RUNOFF AWAY FROM SENSITIVE AREAS AND REDIRECT IT TO MORE ACCEPTABLE AREAS SUCH AS TEMPORARY SEDIMENT BASINS.

TEMPORARY SEDIMENT BASINS: TEMPORARY SEDIMENT BASINS WILL BE UTILIZED IN EACH PHASE OF CONSTRUCTION. THE SEDIMENT BASINS WILL HOLD STORMWATER RUNOFF FOR AN EXTENDED PERIOD OF TIME TO HELP SETTLE OUT ANY SEDIMENT. EACH OF THE ABOVE GROUND DETENTION BASINS SHALL BE USED AS A TEMPORARY SEDIMENT BASIN UNTIL THE PHASE IS STABILIZED (SEE THE CONSTRUCTION SEQUENCING NOTES FOR ADDITIONAL INFORMATION). ADDITIONAL TEMPORARY SEDIMENT BASINS MAY BE CONSTRUCTED IN APPROPRIATE LOCATIONS AND AS NECESSARY TO TREAT STORMWATER RUNOFF. TEMPORARY SEDIMENT BASINS COULD ALSO BE UTILIZED TO TREAT SILTY WATER THAT IS GENERATED DURING DEWATERING ACTIVITIES. SEDIMENT SHOULD BE REMOVED FROM THE TEMPORARY SEDIMENT BASINS REGULARLY.

TEMPORARY VEGETATION: AREAS TO BE EXPOSED AND LEFT UNTOUCHED FOR SIGNIFICANT PERIODS OF TIME SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

DUST CONTROL: AREAS SUBJECT TO WIND EROSION WHERE PERMANENT STABILIZATION IS NOT FEASIBLE, WET SUPPRESSION (WATER), MULCHING OR OTHER ACCEPTABLE MEASURES SHALL BE UTILIZED.

STREET SWEEPING: ONCE THE SUBDIVISION ROADS ARE PAVED THEY SHALL BE KEPT REASONABLY FREE OF DEBRIS AND SEDIMENT IN ORDER TO PREVENT ANY IMPACTS TO THE DRAINAGE SYSTEM AND RESOURCE AREAS. THIS COULD BE ACCOMPLISHED BY SWEEPING THE STREETS AS NECESSARY.

STONE CONSTRUCTION ENTRANCES: STONE CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT EACH SUBDIVISION ENTRANCE AND BETWEEN UNSTABILIZED PHASES. THE INTENT OF THE STONE CONSTRUCTION ENTRANCES IS TO PREVENT SEDIMENT AND DEBRIS FROM BEING TRACKED ONTO TOWN ROADS OR INTO A STABILIZED PHASE.

EROSION CONTROL BLANKETS: EROSION CONTROL BLANKETS SHALL BE USED ON STEEP SLOPES (WHERE NECESSARY) TO HELP ESTABLISH PERMANENT STABILIZATION CONTROLS (I.E. GRASS, VEGETATION, ETC.) AND PREVENT EROSION.

EACH TEMPORARY BMP USED SHOULD BE INSPECTED ON A REGULAR BASIS AND AT A MINIMUM AFTER EACH RAIN EVENT. REPAIRS SHOULD BE MADE AS NECESSARY TO ASSURE THAT EACH BMP IS FUNCTIONING AS INTENDED.

DETAILS OF THE BMPs CAN BE FOUND ON THE EROSION CONTROL PLAN (SHEET 54). ADDITIONAL BMPs MAY BE UTILIZED DURING THE COURSE OF CONSTRUCTION IF THEY PROVIDE EQUAL OR GREATER PROTECTION THAN THE BMPs LISTED ABOVE.

| NO. | DATE | DESCRIPTION | BY |
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| 9 | 11/04/13 | MHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 3 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
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| 1 | 6/1/07 | PER CONSERVATION COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

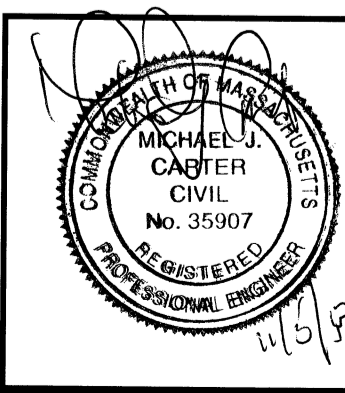
**CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS**

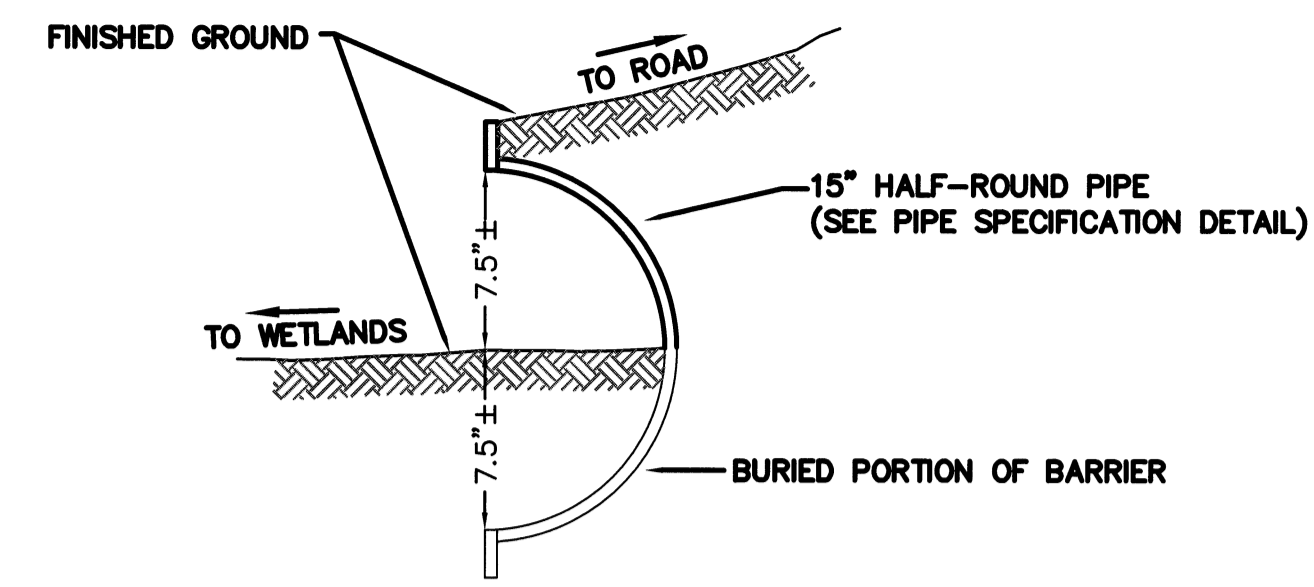
PHASING PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

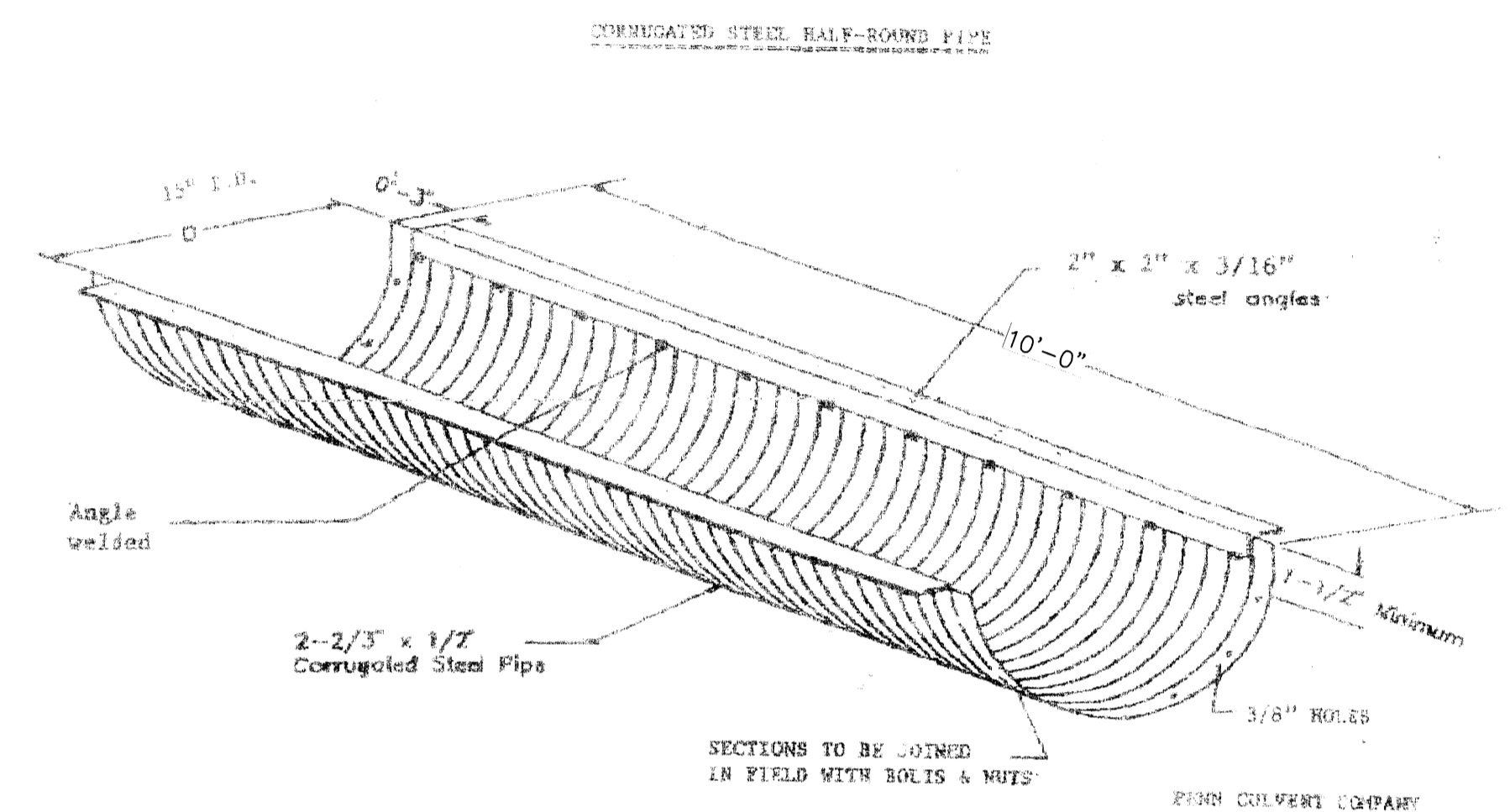
SCALE: 1"=250' DATE: JANUARY 26, 2007

JOB NO./FILE NAME: 0213-DEF-LOT-MOD PHASE.DWG DESIGNED BY: J.R.D. DRAWN BY: J.R.D. CHECKED BY: M.J.C. PLAN NO. 63 OF 64



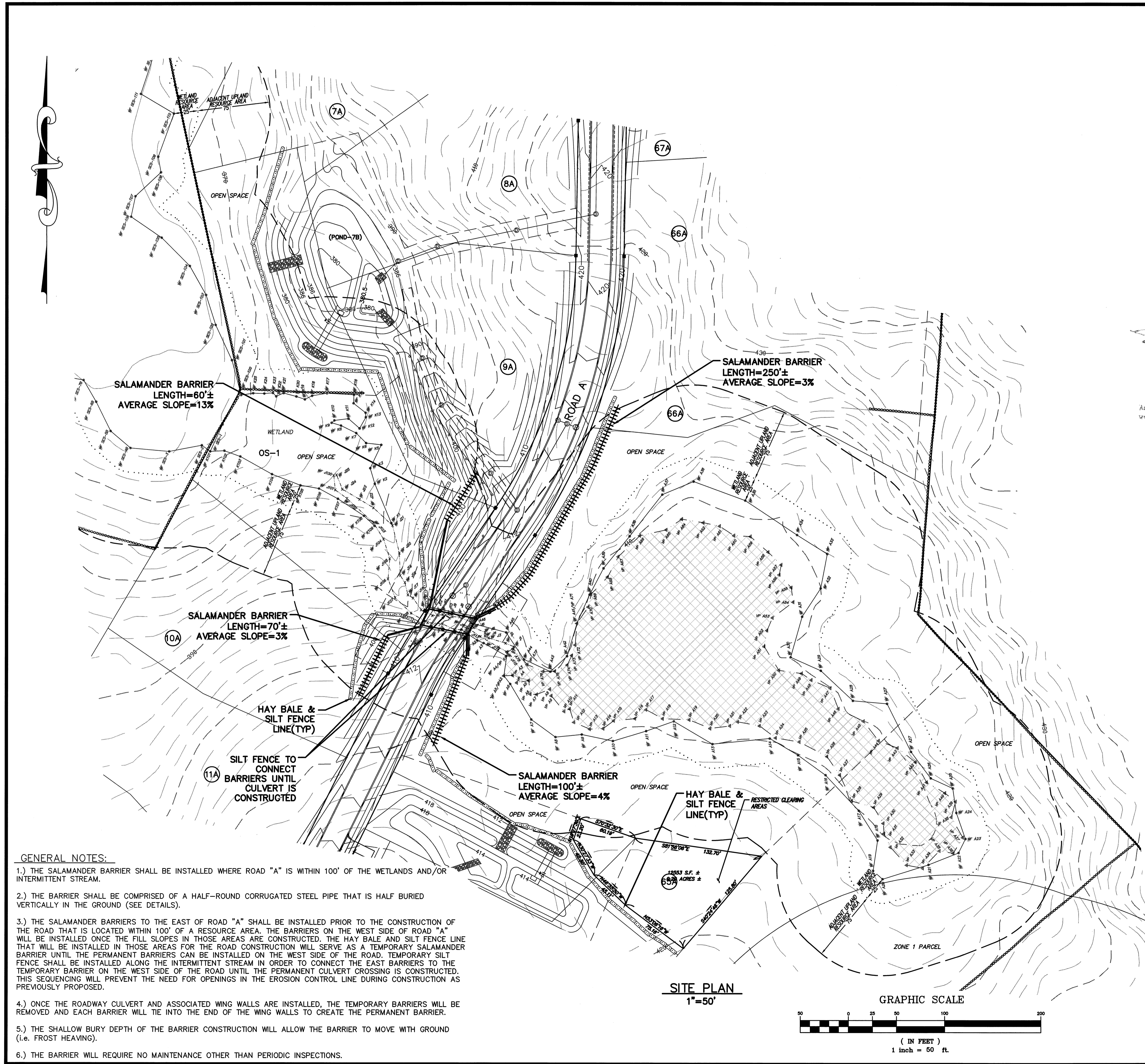


SALAMANDER BARRIER DETAIL
N.T.S.

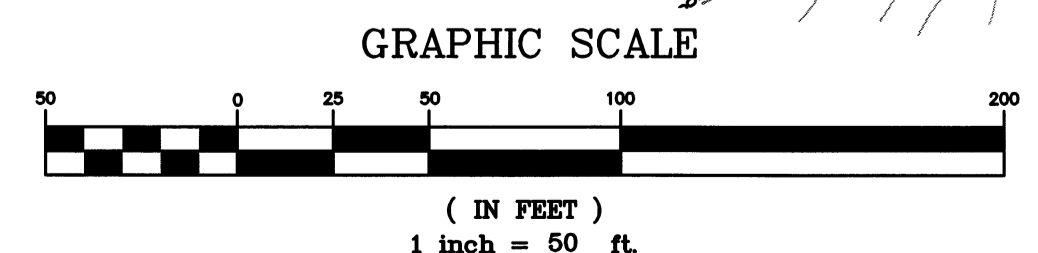


MATERIAL SPECIFICATIONS:
CORRUGATED GALVANIZED STEEL PIPE
HALF ROUND WITH ANGLES
DIAMETER: 15" I.D.
GUAGE: 16 (0.064")

SALAMANDER BARRIER PIPE SPECIFICATIONS
N.T.S.



SITE PLAN
1"=50'



GENERAL NOTES:

- 1.) THE SALAMANDER BARRIER SHALL BE INSTALLED WHERE ROAD "A" IS WITHIN 100' OF THE WETLANDS AND/OR INTERMITTENT STREAM.
- 2.) THE BARRIER SHALL BE COMPRISED OF A HALF-ROUND CORRUGATED STEEL PIPE THAT IS HALF BURIED VERTICALLY IN THE GROUND (SEE DETAILS).
- 3.) THE SALAMANDER BARRIERS TO THE EAST OF ROAD "A" SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE ROAD THAT IS LOCATED WITHIN 100' OF A RESOURCE AREA. THE BARRIERS ON THE WEST SIDE OF ROAD "A" WILL BE INSTALLED ONCE THE FILL SLOPES IN THOSE AREAS ARE CONSTRUCTED. THE HAY BALE AND SILT FENCE LINE THAT WILL BE INSTALLED IN THOSE AREAS FOR THE ROAD CONSTRUCTION WILL SERVE AS A TEMPORARY SALAMANDER BARRIER UNTIL THE PERMANENT BARRIERS CAN BE INSTALLED ON THE WEST SIDE OF THE ROAD. TEMPORARY SILT FENCE SHALL BE INSTALLED ALONG THE INTERMITTENT STREAM IN ORDER TO CONNECT THE EAST BARRIERS TO THE TEMPORARY BARRIER ON THE WEST SIDE OF THE ROAD UNTIL THE PERMANENT CULVERT CROSSING IS CONSTRUCTED. THIS SEQUENCING WILL PREVENT THE NEED FOR OPENINGS IN THE EROSION CONTROL LINE DURING CONSTRUCTION AS PREVIOUSLY PROPOSED.
- 4.) ONCE THE ROADWAY CULVERT AND ASSOCIATED WING WALLS ARE INSTALLED, THE TEMPORARY BARRIERS WILL BE REMOVED AND EACH BARRIER WILL TIE INTO THE END OF THE WING WALLS TO CREATE THE PERMANENT BARRIER.
- 5.) THE SHALLOW BURY DEPTH OF THE BARRIER CONSTRUCTION WILL ALLOW THE BARRIER TO MOVE WITH GROUND (i.e. FROST HEAVING).
- 6.) THE BARRIER WILL REQUIRE NO MAINTENANCE OTHER THAN PERIODIC INSPECTIONS.

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| 9 | 11/04/13 | NHESP UPDATE PLAN COMMENTS | R.P.L. |
| 8 | 10/16/13 | REVISED OS-2 PER TOWN COMMENTS | H.M.C. |
| 7 | 03/21/13 | REVISED TO SHOW APPROVED EASEMENTS AND MODIFIED LOT LAYOUT | H.M.C. |
| 2 | 10/22/07 | FOR ENDORSEMENT | J.R.D. |
| 1 | 7/27/07 | PER CONSERVATION COMMENTS | J.R.D. |

DEFINITIVE SUBDIVISION OF LAND IN BOLTON

CENTURY MILL ESTATES
BOLTON, MASSACHUSETTS

SALAMANDER BARRIER PLAN

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1"=50' DATE: JANUARY 26, 2007

| | | |
|---------------------|---------------------|----------|
| JOB NO. \FILE NAME: | DESIGNED BY: J.R.D. | PLAN NO. |
| 0213-DEF-LOT-MOD | DRAWN BY: J.R.D. | 64 of 64 |
| PHASE.DWG | CHECKED BY: M.J.C. | |

