

GOLD RUSH ESTATES RESIDENTIAL SITE DEVELOPMENT & SUBDIVISION PLANS

RIDEM SUBMISSION

CUMBERLAND, RHODE ISLAND
ASSESSOR'S PLAT NO. 17/ LOT NO 4

APRIL 2007

REVISED NOVEMBER 16, 2007

PROJECT CONTACTS:

OWNER/APPLICANT
IRENE O'MALLEY TRUST

c/o JOHN BRADY
839 NEWPORT AVENUE
SOUTH ATTLEBORO, MA. 02703
508-761-8351

CIVIL ENGINEER
FUSS & O'NEILL, INC.

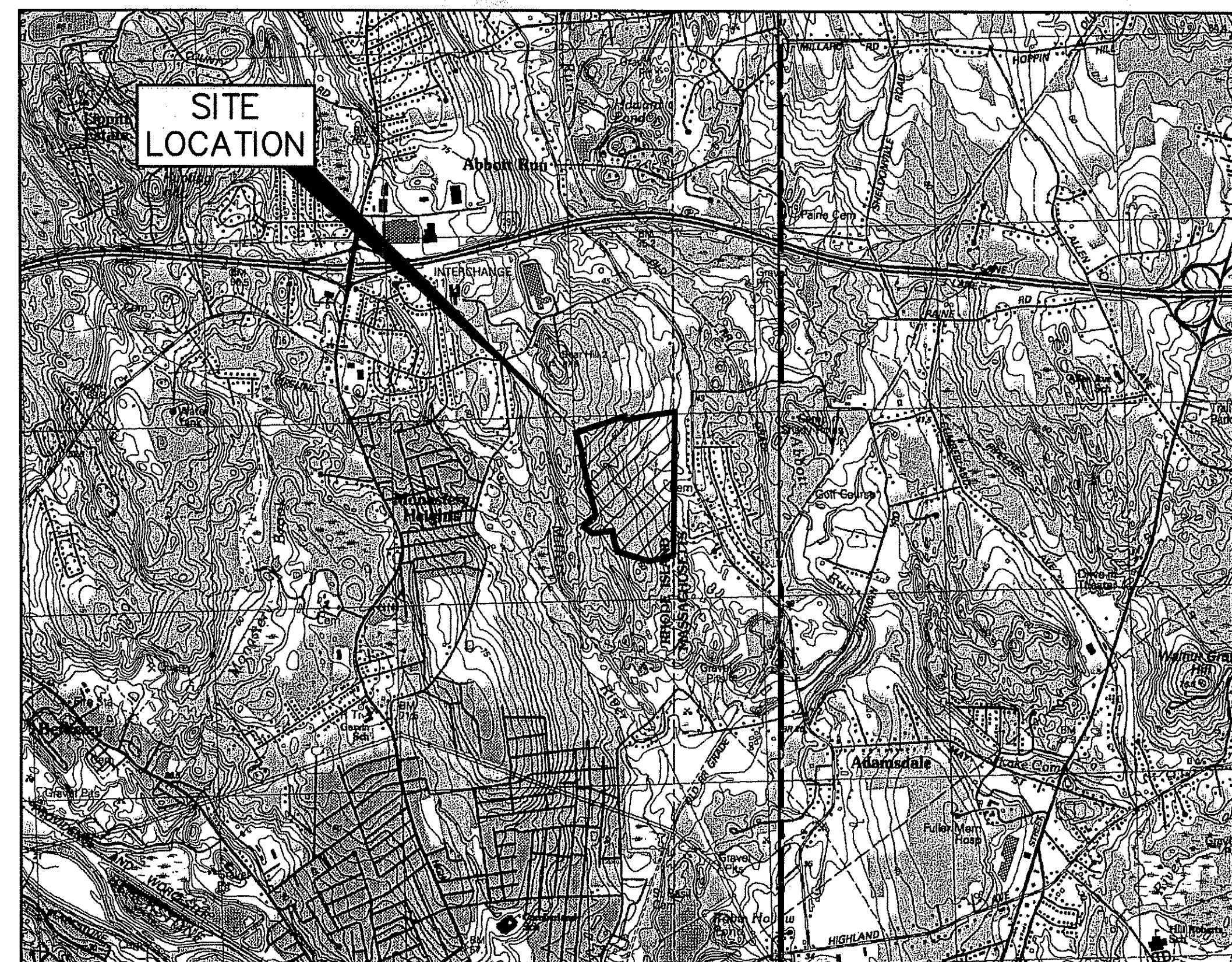


MICHAEL P. SOUSA, P.E.
SHAWN M. MARTIN, P.E.
LESLIE BURTON
275 PROMENADE STREET
SUITE 350
PROVIDENCE, RI 02908
401-861-3070

VICE PRESIDENT
PROJECT MANAGER
STAFF ENGINEER

WETLAND BIOLOGIST
NATURAL RESOURCE SERVICES, INC.

SCOTT RABIDEAU
1910 VICTORY HIGHWAY
HARRISVILLE, RI 02830
401-568-7390



LOCATION MAP

SCALE: 1"=200'

PLANS PREPARED FOR:

IRENE O'MALLEY TRUST
c/o JOHN BRADY

PLANS PREPARED BY:



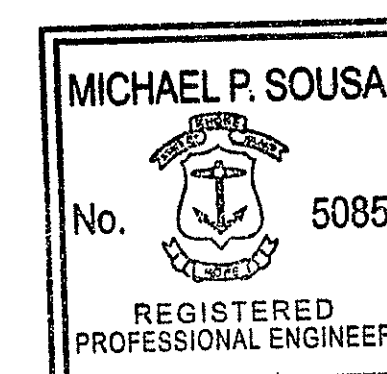
FUSS & O'NEILL
Disciplines to Deliver

275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS PLAN BEARS THE LIVE SIGNATURE AND SEAL OF THE UNDERSIGNED.

[Signature]
MICHAEL P. SOUSA, P.E.

11/16/07
LICENSE NO. 5085



SHEET INDEX

SHEET NO.	SHEET TITLE
C1.01	COVER SHEET
C2.01	GENERAL NOTES AND LEGEND
C3.01	200' RADIUS PLAN
C4.01	BOUNDARY & TOPOGRAPHIC SURVEY PLAN
C5.01	SUBDIVISION PLAN / KEY SHEET
C6.01 - C6.04	SITE DEVELOPEMENT PLAN Nos. 1 - 4
C7.01 - C7.04	GRADING AND UTILITY PLAN Nos. 1 - 4
C8.01-C8.08	ROADWAY PROFILE NOS. 1 - 8
C9.01 - C9.03	BRIDGE SECTION AND DETAIL SHEET NOS. 1-3
C10.01 - C10.06	DETAIL SHEET NOS. 1-6

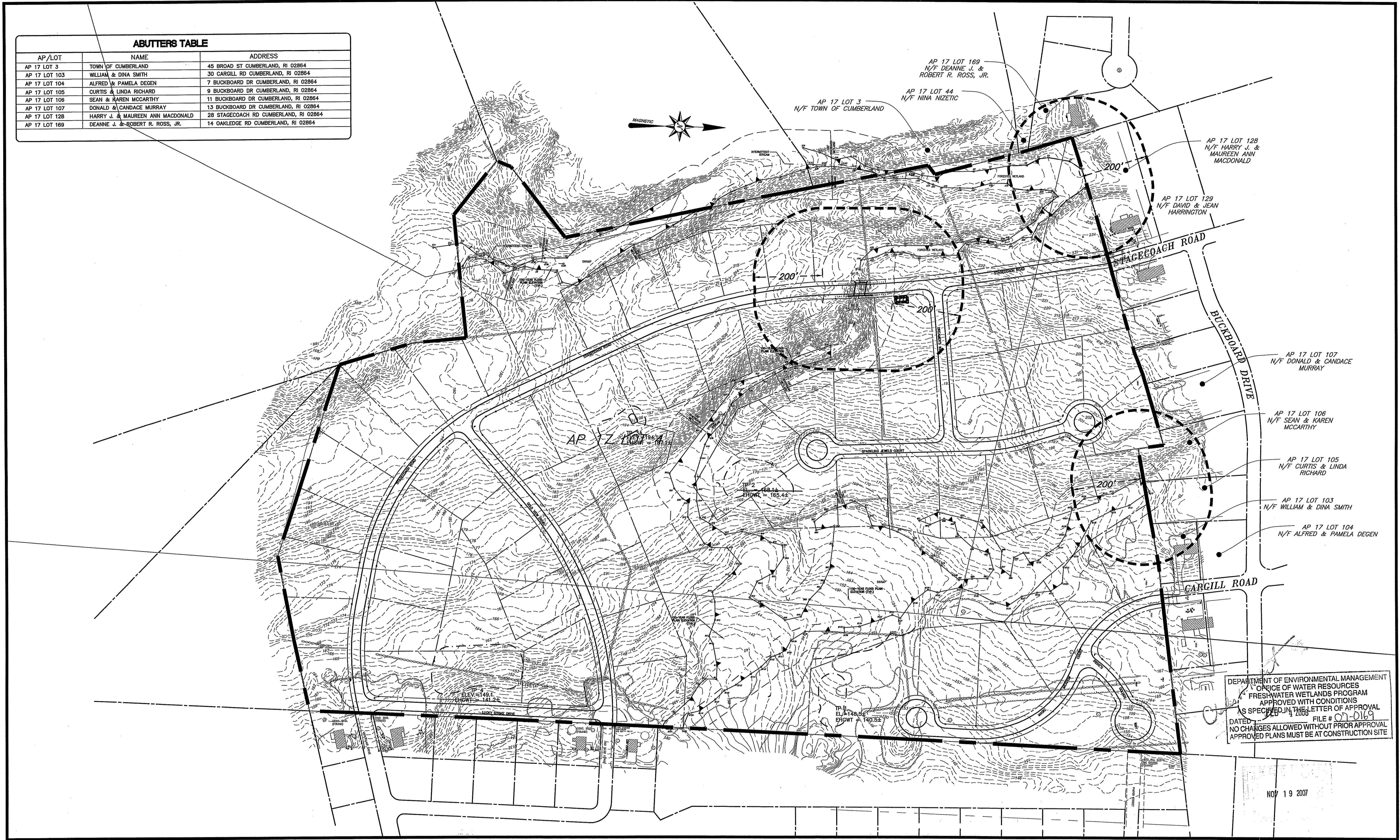
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NOV 19 2007 OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB - 4 2008 FILE # 07-019
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROJ. No.: 20050997.A10
DATE: APRIL 2007

C1.01
1 OF 30

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 LMAN:
 MS VIEW: M150
 UCS:

ABUTTERS TABLE		
AP/LOT	NAME	ADDRESS
AP 17 LOT 3	TOWN OF CUMBERLAND	45 BROAD ST CUMBERLAND, RI 02864
AP 17 LOT 103	WILLIAM & DINA SMITH	30 CARGILL RD CUMBERLAND, RI 02864
AP 17 LOT 104	ALFRED & PAMELA DEGEN	7 BUCKBOARD DR CUMBERLAND, RI 02864
AP 17 LOT 105	CURTIS & LINDA RICHARD	9 BUCKBOARD DR CUMBERLAND, RI 02864
AP 17 LOT 106	SEAN & KAREN MCCARTHY	11 BUCKBOARD DR CUMBERLAND, RI 02864
AP 17 LOT 107	DONALD & CANDACE MURRAY	13 BUCKBOARD DR CUMBERLAND, RI 02864
AP 17 LOT 128	HARRY J. & MAUREEN ANN MACDONALD	28 STAGECOACH RD CUMBERLAND, RI 02864
AP 17 LOT 169	DEANNE J. & ROBERT R. ROSS, JR.	14 OAKLEDGE RD CUMBERLAND, RI 02864



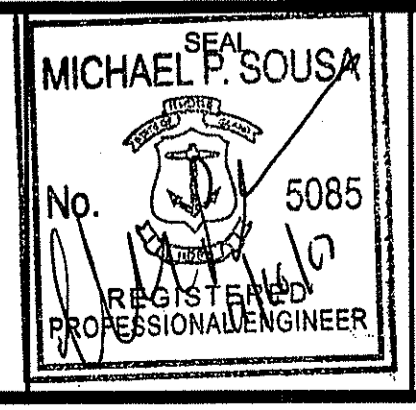
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NOV 19 2007

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL



SCALE:	HORIZ.: 1" = 120'
	VERT.:
DATUM:	HORIZ.:
	VERT.:
GRAPHIC SCALE	

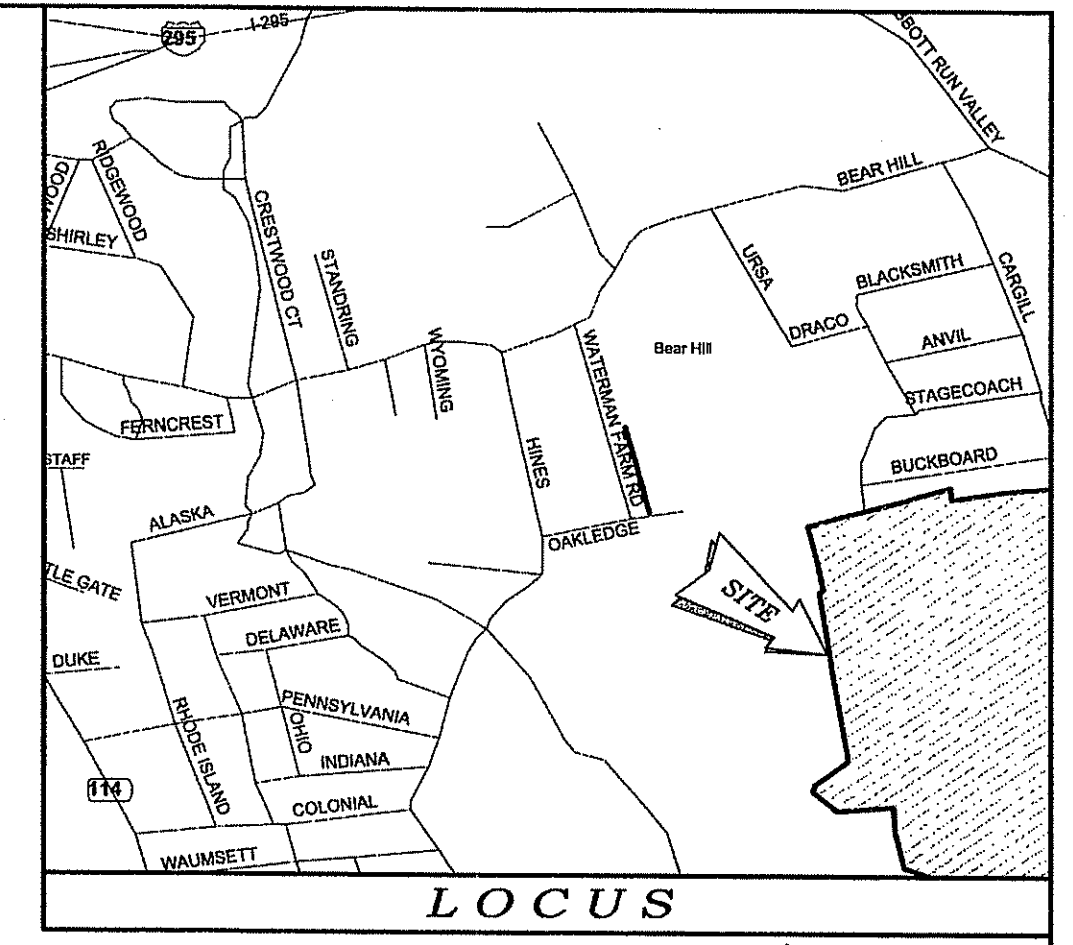
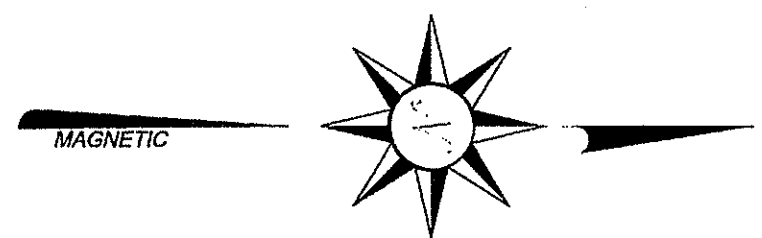
FUSS & O'NEILL
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 275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
 200' RADIUS MAP
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007
C3.01
3 OF 30

LEGEND & ABBREVIATIONS

- NF - NOW OR FORMERLY
- A.P. - ASSESSORS PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- ± - PLUS OR MINUS
- STY - STORY
- W/F - WOOD FRAMED
- SHP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PE.D. - PEDESTRIAN
- (FND.) - FOUND
- R/HB - RI HIGHWAY BOUND
- M/NAIL - MASONRY NAIL
- FE. - FLARED END
- RCP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - SPOT GRADE
- - PROPERTY LINE
- - - - ZONING SETBACK LINE
- - - - EXISTING CONTOUR
- - STONE WALL
- X - FENCE
- S - SEWER LINE
- D - DRAIN LINE
- W - WATER LINE
- G - GAS LINE
- E - ELECTRIC LINE
- ⊙ - SANITARY SEWER MANHOLE
- ⊙ - CATCH BASIN
- ⊙ - STORM DRAIN MANHOLE
- ⊙ - WATER GATE
- ⊙ - GAS VALVE
- ⊙ - ELECTRIC MANHOLE
- ⊙ - CONCRETE BOUND
- ⊙ - DRILL HOLE
- ⊙ - IRON PIPE



NOTES & REFERENCES

1. REFERENCE IS MADE TO THE FOLLOWING PLANS AND MAPS:
 - A. "PRELIMINARY PLAN ABBOTT RUN VALLEY ESTATES IN CUMBERLAND, R.I. & N. ATTLEBOROUGH, MASS. DRAWN FOR JOHN BRADY MARCH 1982 SCALE: 1"=80' W.T. WHALEN ENG. CO."
 - B. "PLAN OF LAND IN NORTH ATTLEBOROUGH, MASS. DRAWN FOR JOHN BRADY JAN. 1963 SCALE: 1"=80' THE W.T. WHALEN ENGINEERING CO."
 - C. "CUMBERLAND, R.I. BEAR HILL PHASE II DEVELOPED BY SAVAGE BROS. CORP. SURVEYED BY EARL MARSH ASSOC. DATE: MARCH 1988 SCALE: 1"=80'."
 - D. "PLAN OF LAND FOR L.A. RAY REALTY NO. ATTLEBORO, MASS. SCALE: 1"=20' DATE: 8/25/87 COMMONWEALTH ENGINEERS, INC."
 - E. "PLAN OF LAND FOR L.A. RAY REALTY MENDON ROAD NO. ATTLEBOROUGH, MASS. DEC., 1985 SCALE: 1"=50' EARL R. MARSH ASSOC. & EDWARD SZPILA ASSOC."
 - F. "SECTION FOUR ABBOTT RUN VALLEY ESTATES NORTH ATTLEBOROUGH, MASS. JUNE, 1972 SCALE: 1"=40' THE W.T. WHALEN ENG. CO."
2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF CUMBERLAND EVIDENCE RECORDS REGARDING RECORD TITLE TO THE PREMISES SURVEYED:
 - A. AP 17 LOT 14 - VOLUME 806 PAGE 382 - THE IRENE M. O'MALLEY REVOCABLE TRUST
3. THESE PREMISES ARE SUBJECT TO NO KNOWN EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD.
4. THESE PREMISES ARE SITUATED IN AN "A-2" ZONE:

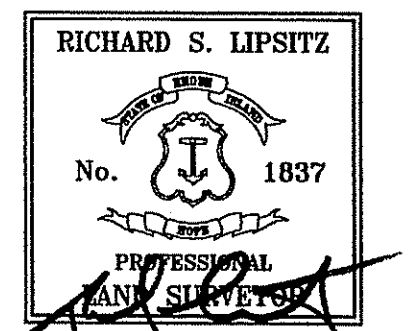
DIMENSIONAL REQUIREMENTS	
MIN. LOT AREA	= 80,000 SQ.FT.
MIN. LOT AREA PER DWELLING UNIT	= 80,000 SQ.FT.
MIN. LOT WIDTH	= 180 FT.
MIN. FRONTAGE WIDTH	= 180 FT.
MIN. S/B FRONT YARD	= 75 FT.
MIN. S/B REAR YARD	= 30 FT.
MIN. S/B SIDE YARD	= 20 FT.
MAX. STRUCTURE HEIGHT	= 35 FT.
MAX. LOT COVERAGE	= 15%

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.

ZONING NOTE: CURRENT ZONING DOES NOT APPLY TO THIS PROJECT AS A RESULT OF A COURT ORDER.
5. THESE PREMISES ARE SITUATED IN A ZONE "X" (AREA'S DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAINS) AS DESIGNATED ON "NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP TOWN OF CUMBERLAND, RHODE ISLAND PROVIDENCE COUNTY, PANEL 8 OF 7 COMMUNITY- PANEL NUMBER 44016 0005 B MAP REVISED: FEBRUARY 16, 1990 FEDERAL EMERGENCY MANAGEMENT AGENCY".

A.P. 17 LOT 4

TOTAL AREA OF PARCEL
AREA = 3,643,805 SQ.F.T.±
83.65 ACRES



CERTIFICATION

THIS SURVEY AND PLAN CONFORM TO THE CHARTERS OF THE RHOISLAND BOARD OF PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1984.

OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED FEB - 4 2008 FILE # 07-063
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Richard S. Lipsitz
WATERMAN ENGINEERING COMPANY

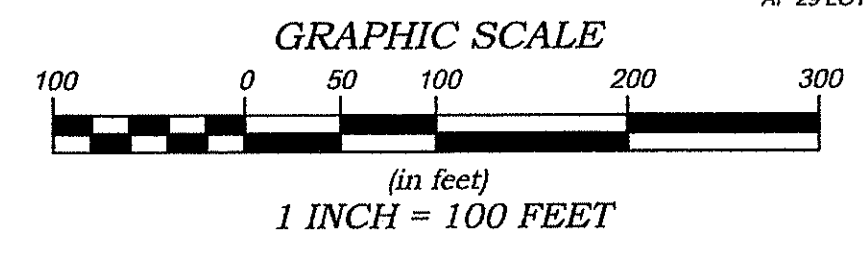
NO.	DATE	REVISION	CHECKED BY
1	1-22-07	SURVEY UPDATE	RSL

BOUNDARY & TOPOGRAPHIC SURVEY PLAN
AP 17 - LOT 4
CUMBERLAND, RHODE ISLAND

IRENE O'MALLEY TRUST
839 NEWPORT AVENUE
SOUTH ATTLEBORO, MA 02703

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS - EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. (401) 438-5775 FAX (401) 438-5773

NOV 19 2007

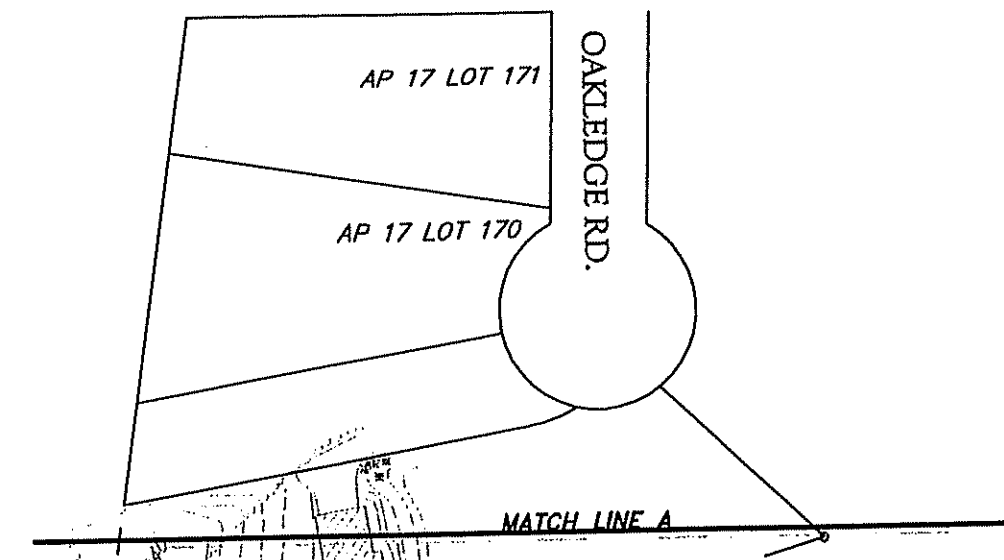


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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2094

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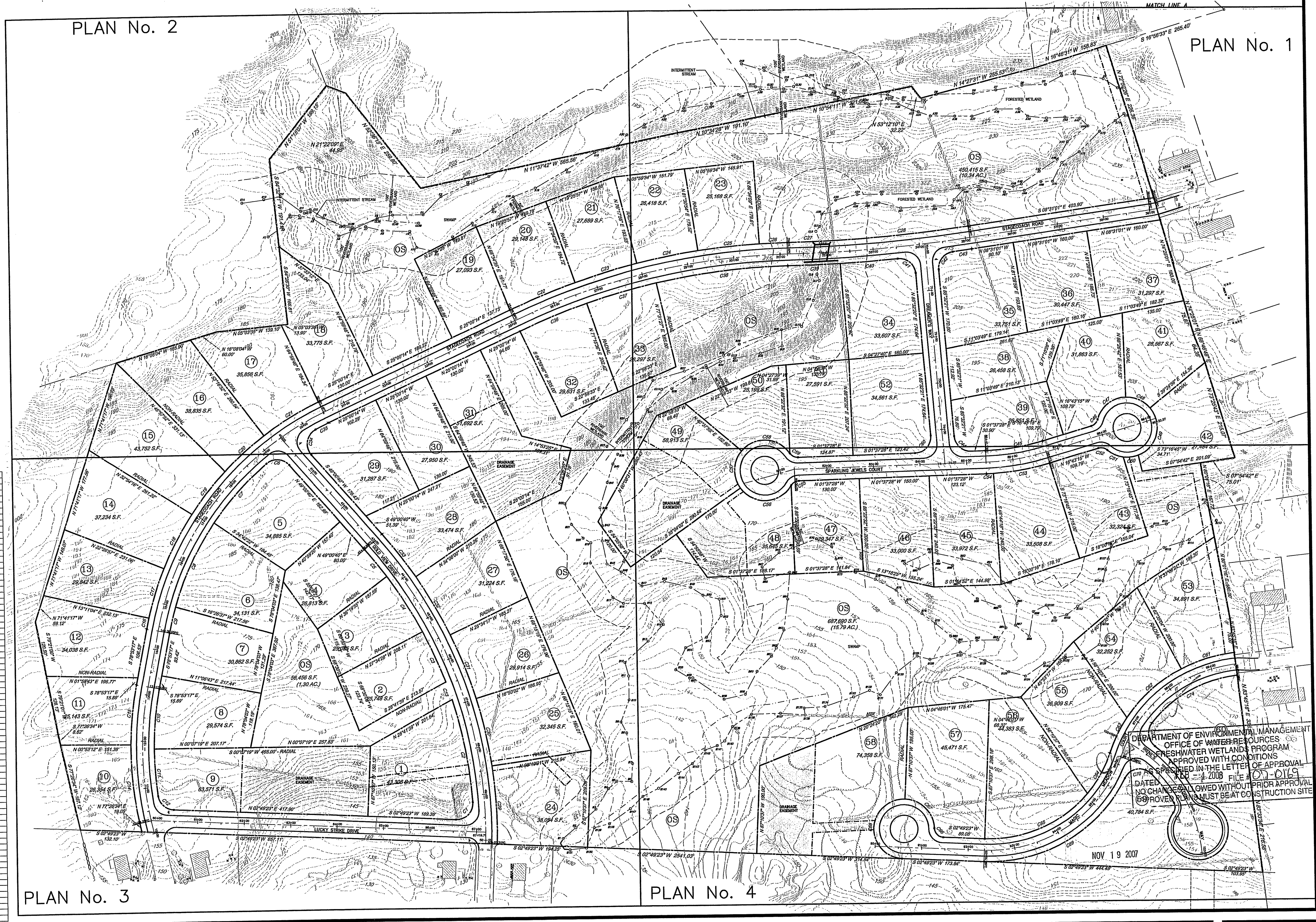


PLAN No. 2

PLAN No. 1

ROAD NAME	R.O.W. WIDTH	ROAD WIDTH	ROAD LENGTH	ROAD AREA
STAGECOACH ROAD	50'	26'	2918'	12,324 sf
DRIFTERS WAY	50'	26'	904'	23,504 sf
SPARKLING JEWELS COURT	50'	26'	1007'	25,182 sf
GOLD VIEW DRIVE	50'	26'	700'	18,720 sf
LUCKY STRIKE DRIVE	50'	26'	927'	24,102 sf
MARCO MEADOW COURT	50'	26'	304'	7,904 sf
IRENES GOLDEN WAY	50'	26'	304'	7,904 sf

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	TANGENT
C1	95.392°	35.00'	58.04'	52.29'	S 45°30'08" E	39.32'
C2	13.4941°	925.00'	223.24'	222.70'	N 79°13'50" E	112.17'
C3	0.72416°	925.00'	119.24'	115.46'	N 66°07'30" E	59.85'
C4	0.84307°	925.00'	141.29'	141.15'	N 59°02'59" E	70.79'
C5	0.73946°	925.00'	79.29'	73.25'	N 51°20'33" E	32.65'
C6	80.4039°	35.00'	54.12'	48.83'	N 04°40'10" E	34.20'
C7	15.3719°	625.00'	170.41'	169.89'	S 47°28'59" E	65.74'
C8	18.1543°	625.00'	189.21'	188.37'	S 64°35'11" E	102.48'
C9	05.1954°	625.00'	58.16'	58.14'	S 75°13'20" E	28.10'
C10	10.9824°	675.00'	129.47'	129.27'	S 84°22'59" E	64.84'
C11	08.3353°	675.00'	100.80'	100.91'	N 85°50'23" E	50.54'
C12	28.4404°	35.00'	48.70'	44.00'	S 42°11'59" W	29.75'
C13	02.3079°	925.00'	40.59'	40.59'	S 84°22'59" E	64.84'
C14	13.2126°	725.00'	169.44'	169.05'	N 84°11'39" E	83.11'
C15	10.1331°	725.00'	129.27'	129.23'	S 84°22'59" E	64.84'
C16	02.0429°	875.00'	129.27'	129.23'	S 84°22'59" E	64.84'
C17	09.2954°	675.00'	111.11'	110.99'	S 72°06'00" E	55.60'
C18	10.1719°	675.00'	121.00'	121.00'	S 84°22'59" E	64.84'
C19	10.4117°	675.00'	126.59'	126.11'	S 84°22'59" E	64.84'
C20	09.3903°	675.00'	113.20'	113.26'	S 41°33'00" E	55.98'
C21	11.4314°	675.00'	138.08'	137.84'	S 30°51'11" E	60.72'
C22	02.8412°	1475.00'	159.84'	152.17'	S 22°02'50" E	76.19'
C23	05.2121°	1475.00'	138.74'	139.69'	S 16°23'48" E	69.48'
C24	05.1259°	1475.00'	134.29'	134.24'	S 11°03'35" E	65.10'
C25	03.0311°	1475.00'	130.11'	130.07'	S 05°57'58" E	62.92'
C26	02.2801°	1475.00'	62.65'	62.65'	S 02°12'50" E	31.33'
C27	01.9310°	2975.00'	97.94'	97.83'	S 01°56'24" E	48.97'
C28	03.3830°	2975.00'	292.53'	292.41'	S 05°42'00" E	148.38'
C29	09.2900°	975.00'	169.03'	168.82'	N 86°47'39" E	84.23'
C30	08.3941°	975.00'	147.39'	147.29'	N 72°29'10" E	73.81'
C31	08.4412°	925.00'	148.68'	148.54'	N 68°47'50" E	74.49'
C32	08.3143°	925.00'	145.13'	145.00'	N 60°09'51" E	72.70'
C33	06.5329°	975.00'	117.23'	117.16'	N 52°22'50" E	58.68'
C34	10.0701°	35.00'	63.87'	64.91'	N 78°29'50" W	44.07'
C35	02.5105°	625.00'	31.65'	31.65'	S 26°27'17" E	15.83'
C36	06.1551°	1425.00'	155.79'	155.72'	S 21°36'19" E	72.97'
C37	05.1551°	1425.00'	155.79'	155.72'	S 12°56'28" E	71.97'
C38	11.144°	1425.00'	285.49'	285.01'	S 06°44'11" E	143.22'
C39	02.0749°	3025.00'	112.47'	112.47'	S 02°03'44" E	56.24'
C40	06.2112°	3025.00'	124.39'	124.30'	N 04°18'19" E	62.40'
C41	01.9129°	39.00'	55.60'	48.94'	N 40°01'41" E	35.63'
C42	86.4345°	35.00'	52.59'	48.06'	N 51°05'47" W	33.08'
C43	00.4706°	3025.00'	41.45'	41.45'	S 01°56'24" E	48.97'
C44	47.0451°	675.00'	33.55'	42.26'	S 41°52'26" E	33.31'
C45	15.0547°	475.00'	125.15'	124.79'	S 09°10'22" E	62.94'
C46	59.0203°	20.00'	20.26'	19.40'	N 42°44'17" E	11.09'
C47	21.201°	65.00'	63.64'	72.51'	N 38°02'18" W	48.27'
C48	32.0821°	65.00'	58.15'	57.13'	N 24°30'53" E	31.80'
C49	109.5748°	65.00'	124.75'	106.47'	S 74°29'02" E	62.77'
C50	37.0501°	65.00'	30.84'	30.89'	S 09°51'43" E	15.71'
C51	33.507°	65.00'	38.10'	37.56'	S 24°31'15" W	19.62'
C52	59.0203°	20.00'	20.26'	19.40'	N 12°17'47" E	11.09'
C53	13.2273°	525.00'	133.33'	124.04'	S 02°21'47" E	61.85'
C54	01.9813°	15.00'	15.00'	15.00'	S 02°28'35" E	7.50'
C55	58.0203°	20.00'	20.26'	19.40'	N 30°38'30" W	11.09'
C56	114.3030°	65.00'	130.00'	109.35'	S 02°21'47" E	101.23'
C57	78.0701°	65.00'	65.89'	79.77'	N 87°13'02" E	50.51'
C58	102.4837°	65.00'	120.00'	103.67'	N 03°31'17" E	65.91'
C59	59.0203°	20.00'	20.26'	19.40'	N 02°21'47" E	11.09'
C60	59.0017°	35.00'	58.15'	50.71'	S 49°02'54" E	36.78'
C61	21.0919°	325.00'	120.00'	119.39'	S 16°50'17" E	60.69'
C62	28.1226°	325.00'	160.00'	159.39'	S 41°03'09" E	81.64'
C63	14.6484°	325.00'	160.00'	83.77'	S 63°01'59" E	42.24'
C64	20.9436°	274.01'	100.00'	89.45'	S 59°58'59" E	50.58'
C65	52.2043°	274.01'	250.34'	241.39'	S 02°21'47" E	123.12'
C66	86.3740°	65.00'	30.84'	27.44'	S 46°08'13" W	18.86'
C67	86.3740°	65.00'	30.84'	27.44'	S 46°08'13" E	18.86'
C68	180.0000°	65.00'	204.20'	204.20'	S 07°13'00" E	101.10'
C69	68.1147°	35.00'	58.15'	50.71'	S 50°16'30" E	211.20'
C70	107.4047°	35.00'	65.78'	56.52'	N 06°39'00" W	47.89'
C71	48.9229°	275.00'	232.18'	225.39'	N 62°39'19" E	123.12'
C72	54.1833°	325.00'	307.69'	286.42'	N 65°33'58" E	166.57'
C73	90.1749°	35.00'	55.13'	49.60'	S 83°33'14" W	35.19'
C74	45.0331°	275.00'	216.27'	210.74'	S 28°47'52" E	114.07'



PLAN No. 3

PLAN No. 4

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2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB
		DESCRIPTION	BY

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL
MICHAEL P. SOUSA
No. 5085
REGISTERED PROFESSIONAL ENGINEER

SCALE:
HORIZ.: 1" = 100'
VERT.:
DATING:
HORIZ.:
VERT.:
GRAPHIC SCALE

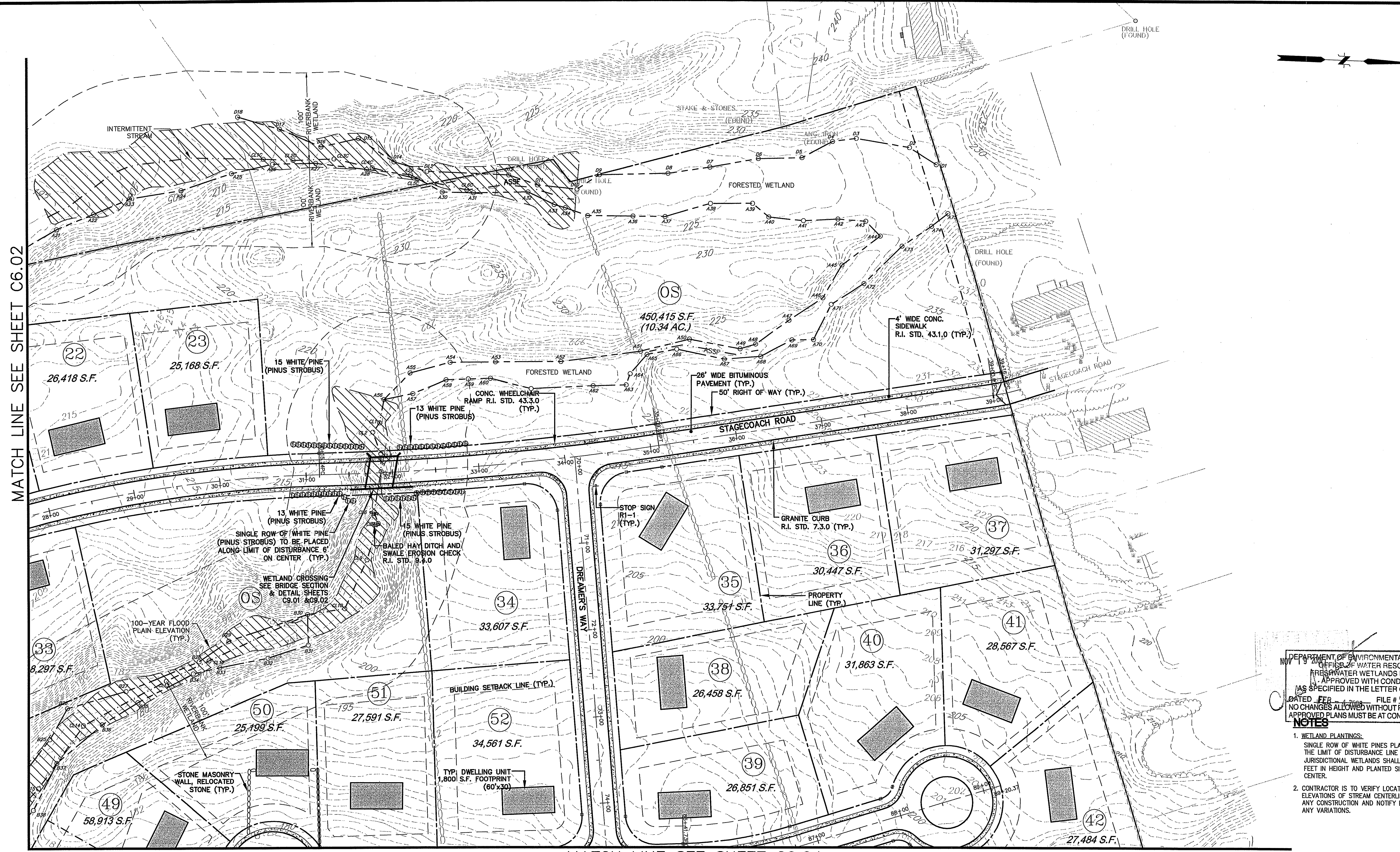
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Disciplines to Deliver
275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

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SUBDIVISION PLAN / KEY SHEET
ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

PROJ. No.: 2005097.A10
DATE: APRIL 2007
C5.01
5 OF 30

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 LMAN:
 MS VIEW:
 UCS:



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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

- NOTES**
- WETLAND PLANTINGS:**
 SINGLE ROW OF WHITE PINES PLANTED ALONG THE LIMIT OF DISTURBANCE LINE WITHIN THE JURISDICTIONAL WETLANDS SHALL BE FIVE (5) FEET IN HEIGHT AND PLANTED SIX (6) FEET ON CENTER.
 - CONTRACTOR IS TO VERIFY LOCATION AND ELEVATIONS OF STREAM CENTERLINE PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OR ANY VARIATIONS.

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL

SEAL
MICHAEL P. SOUSA
 No. 5085
 REGISTERED PROFESSIONAL ENGINEER

SCALE:
 HORIZ.: 1" = 50'
 VERT.:
 DATUM:
 HORIZ.:
 VERT.:
 GRAPHIC SCALE

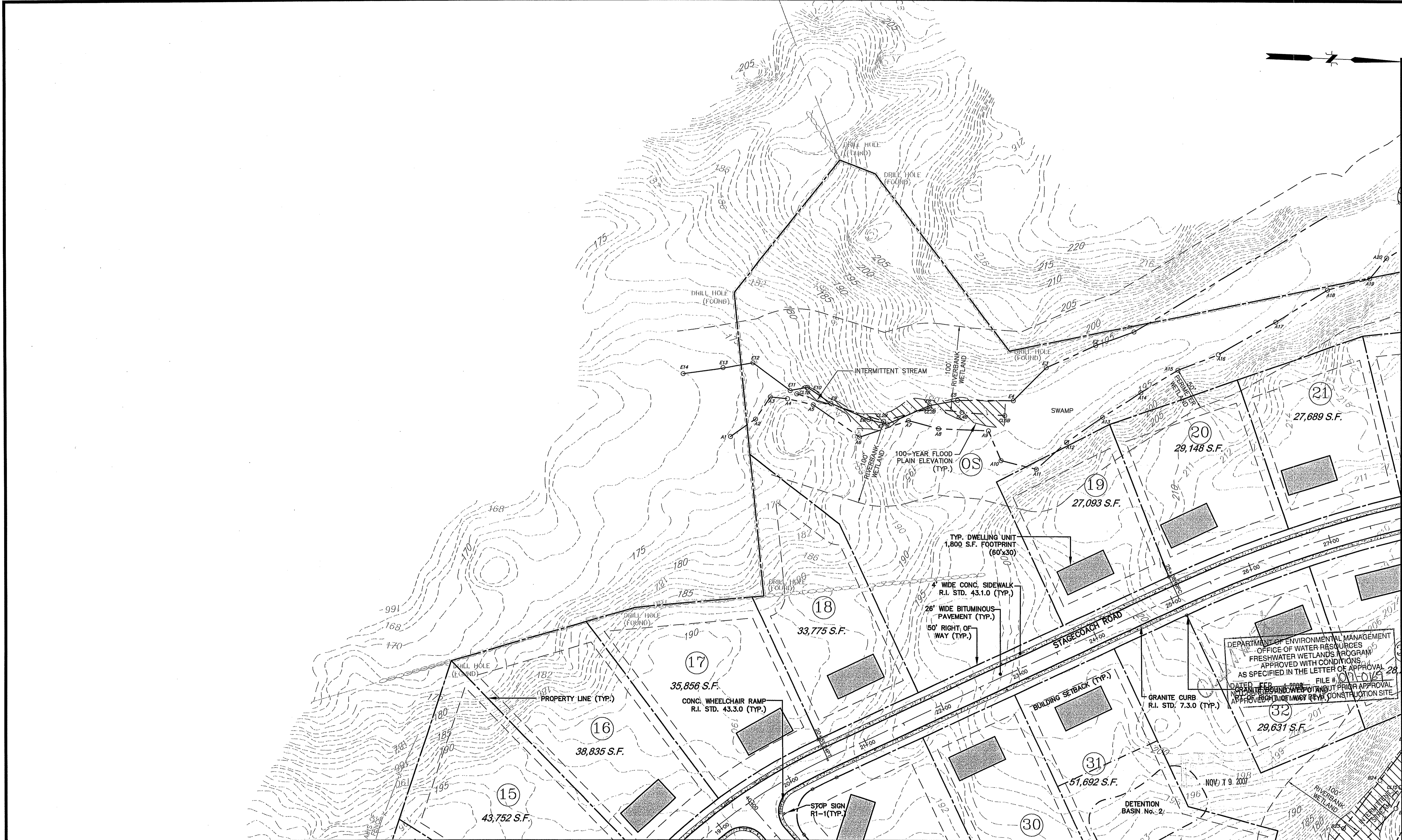
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GOLD RUSH ESTATES
 SITE DEVELOPMENT PLAN No.1
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007
C6.01
6 OF 30

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 LLMAN
 MS VIEW
 UCS:



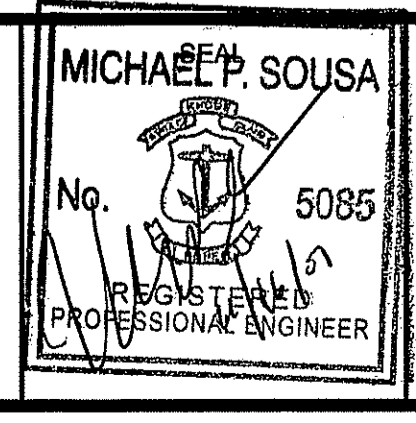
MATCH LINE SEE SHEET C6.01

MATCH LINE SEE SHEET C6.03

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL



MICHAEL P. SOUSA
 No. 5085
 REGISTERED PROFESSIONAL ENGINEER

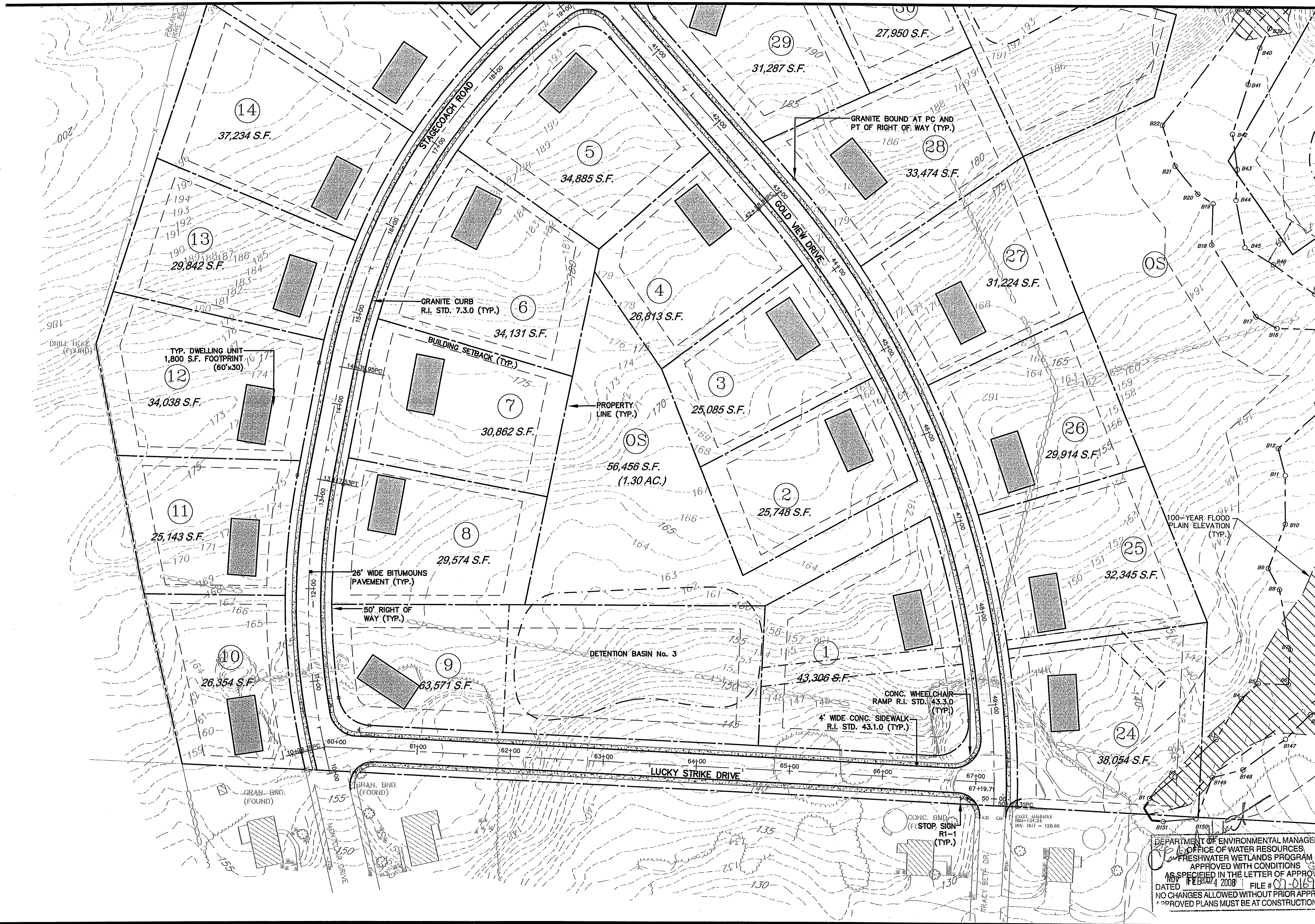
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GOLD RUSH ESTATES
 SITE DEVELOPMENT PLAN No.2
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997 A10
 DATE: APRIL 2007
C6.02
7 OF 30

MATCH LINE SEE SHEET C6.02



MATCH LINE SEE SHEET C6.04

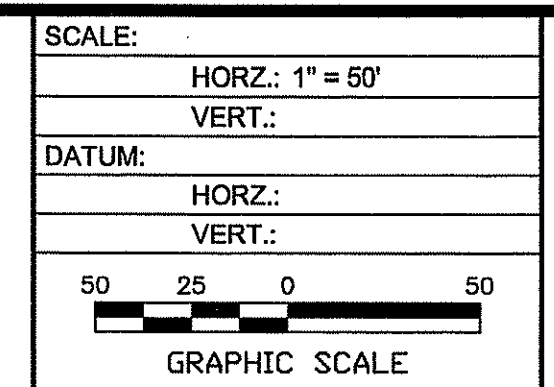
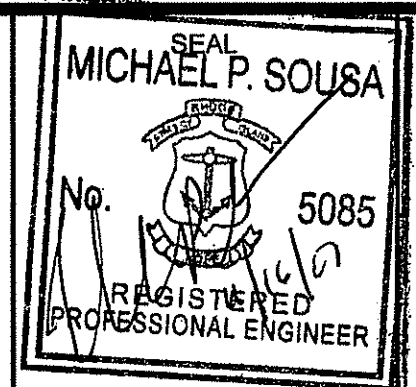
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 12/20/07 FILE # 07-0169
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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No.	DATE	DESCRIPTION	BY
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1	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

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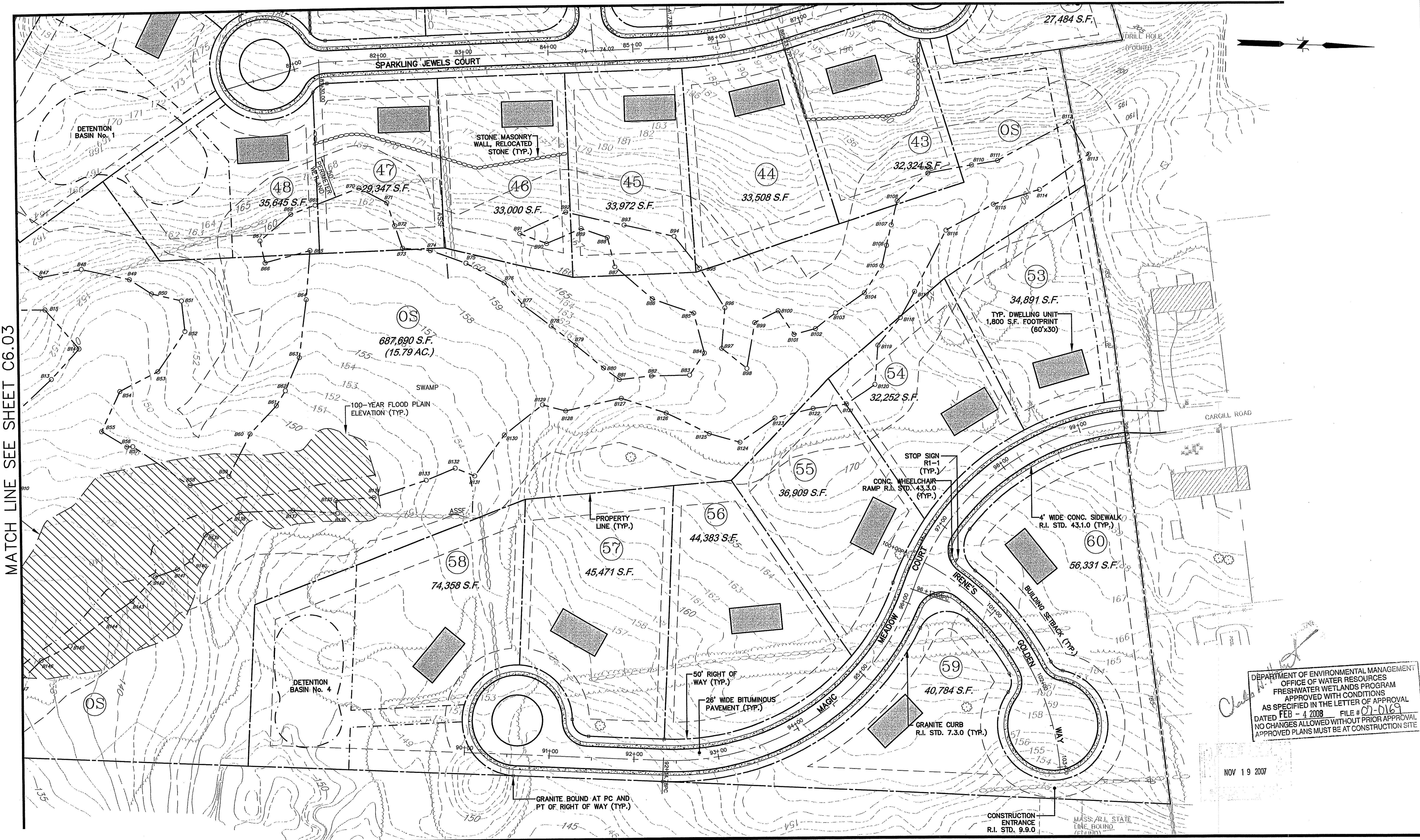
275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
 SITE DEVELOPMENT PLAN No.3
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997A10
 DATE: APRIL 2007

C6.03
8 OF 30

MATCH LINE SEE SHEET C6.01



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB - 4 2008 FILE # 07-0169
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOV 19 2007

MATCH LINE SEE SHEET C6.03

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No.	DATE	DESCRIPTION	BY
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1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL

MICHAEL F. SOUSA

No. 6085

REGISTERED PROFESSIONAL ENGINEER

SCALE:

HORZ.: 1" = 50'

VERT.:

DATUM:

HORZ.:

VERT.:

50 25 0 50

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GOLD RUSH ESTATES

SITE DEVELOPMENT PLAN No. 4

ASSESSOR'S PLAT NO. 17/LOT4

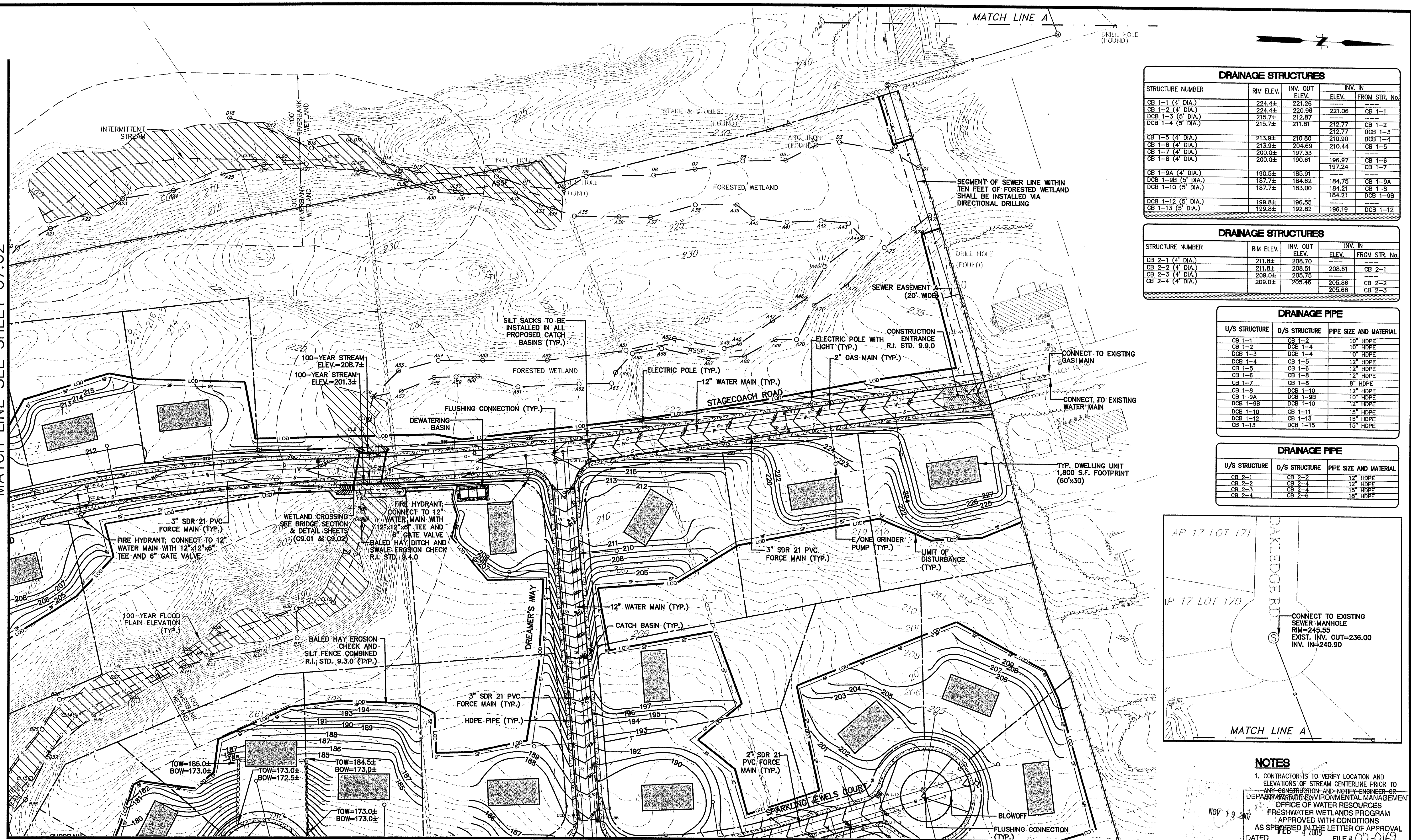
CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007

C6.04
9 OF 30

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MATCH LINE SEE SHEET C7.02



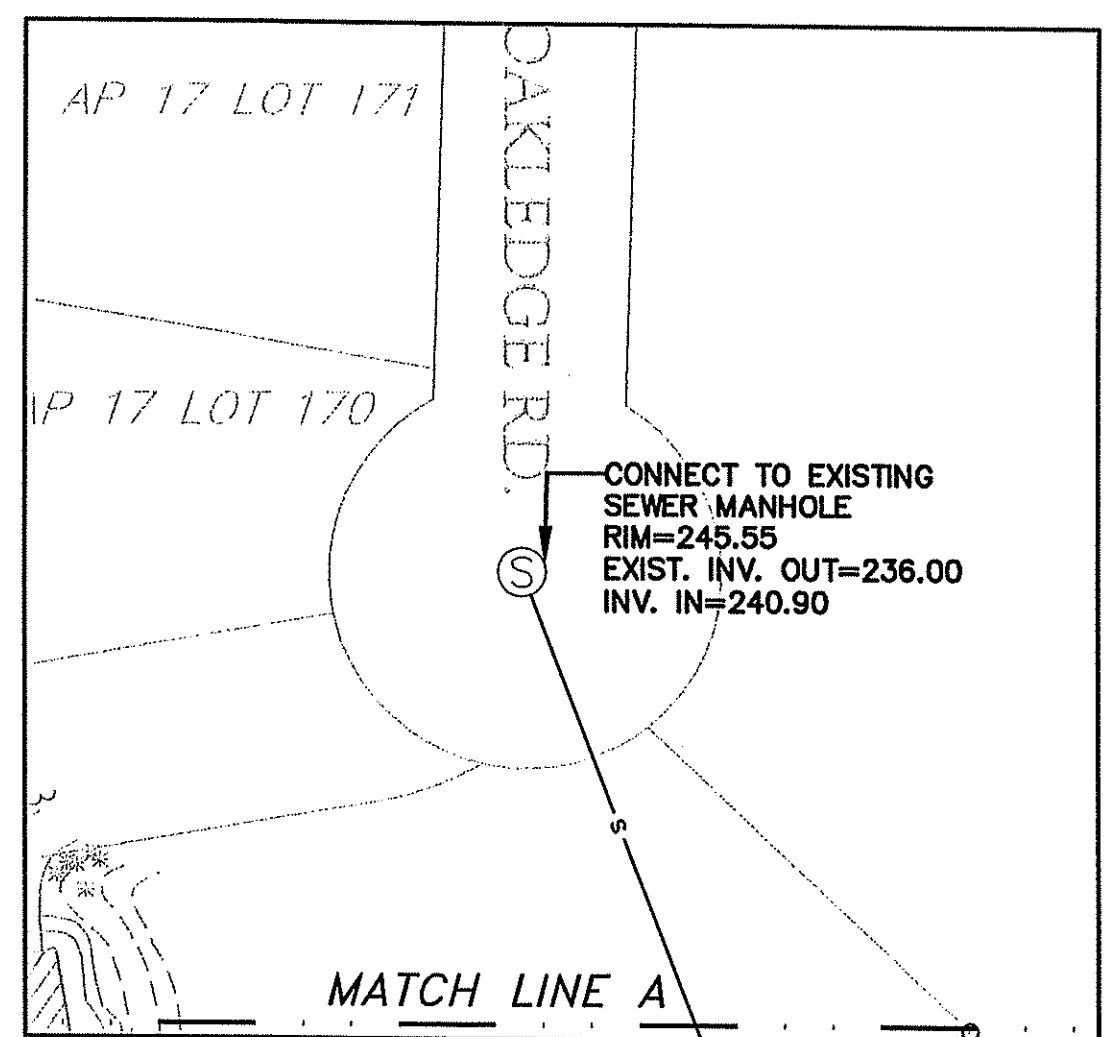
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DRAINAGE STRUCTURES				
STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 1-1 (4' DIA.)	224.4±	221.26	---	---
CB 1-2 (4' DIA.)	224.4±	220.96	221.06	CB 1-1
DCB 1-3 (8' DIA.)	215.7±	212.87	---	---
DCB 1-4 (8' DIA.)	215.7±	211.81	212.77	CB 1-2
CB 1-5 (4' DIA.)	213.9±	210.80	210.90	DCB 1-3
CB 1-6 (4' DIA.)	213.9±	204.69	210.44	CB 1-4
CB 1-7 (4' DIA.)	200.0±	197.33	---	---
CB 1-8 (4' DIA.)	200.0±	190.61	196.97	CB 1-6
CB 1-9A (4' DIA.)	190.5±	185.91	197.24	CB 1-7
DCB 1-9B (8' DIA.)	187.7±	184.82	184.75	CB 1-9A
DCB 1-10 (8' DIA.)	187.7±	183.00	184.21	CB 1-8
DCB 1-12 (8' DIA.)	199.8±	196.55	---	---
CB 1-13 (8' DIA.)	199.8±	192.82	196.19	DCB 1-12

DRAINAGE STRUCTURES				
STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 2-1 (4' DIA.)	211.8±	208.70	---	---
CB 2-2 (4' DIA.)	211.8±	208.51	208.61	CB 2-1
CB 2-3 (4' DIA.)	209.0±	205.75	---	---
CB 2-4 (4' DIA.)	209.0±	205.46	205.86	CB 2-2
			205.66	CB 2-3

DRAINAGE PIPE		
U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 1-1	CB 1-2	10" HDPE
CB 1-2	DCB 1-4	10" HDPE
DCB 1-3	DCB 1-4	10" HDPE
DCB 1-4	CB 1-5	12" HDPE
CB 1-5	CB 1-6	12" HDPE
CB 1-6	CB 1-8	12" HDPE
CB 1-7	CB 1-8	8" HDPE
CB 1-8	DCB 1-10	12" HDPE
CB 1-9A	DCB 1-9B	10" HDPE
DCB 1-9B	DCB 1-10	12" HDPE
DCB 1-10	CB 1-11	15" HDPE
DCB 1-12	CB 1-13	15" HDPE
CB 1-13	DCB 1-15	15" HDPE

DRAINAGE PIPE		
U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 2-1	CB 2-2	12" HDPE
CB 2-2	CB 2-4	12" HDPE
CB 2-3	CB 2-4	15" HDPE
CB 2-4	CB 2-6	18" HDPE



NOTES

- CONTRACTOR IS TO VERIFY LOCATION AND ELEVATIONS OF STREAM CENTERLINE PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OR DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED FEB 4 2006 FILE # 07-0169
- NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
- APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOV 19 2007

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER: SMM
 CHIEF DESIGNER: LCB
 REVIEWED BY: DATE

SEAL
MICHAEL P. SOUSA
 No. 5085
 REGISTERED PROFESSIONAL ENGINEER

SCALE:

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GOLD RUSH ESTATES

GRADING AND UTILITY PLAN No. 1

ASSESSOR'S PLAT NO. 17/LOT4

CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997A10
DATE: APRIL 2007

C7.01
10 OF 30

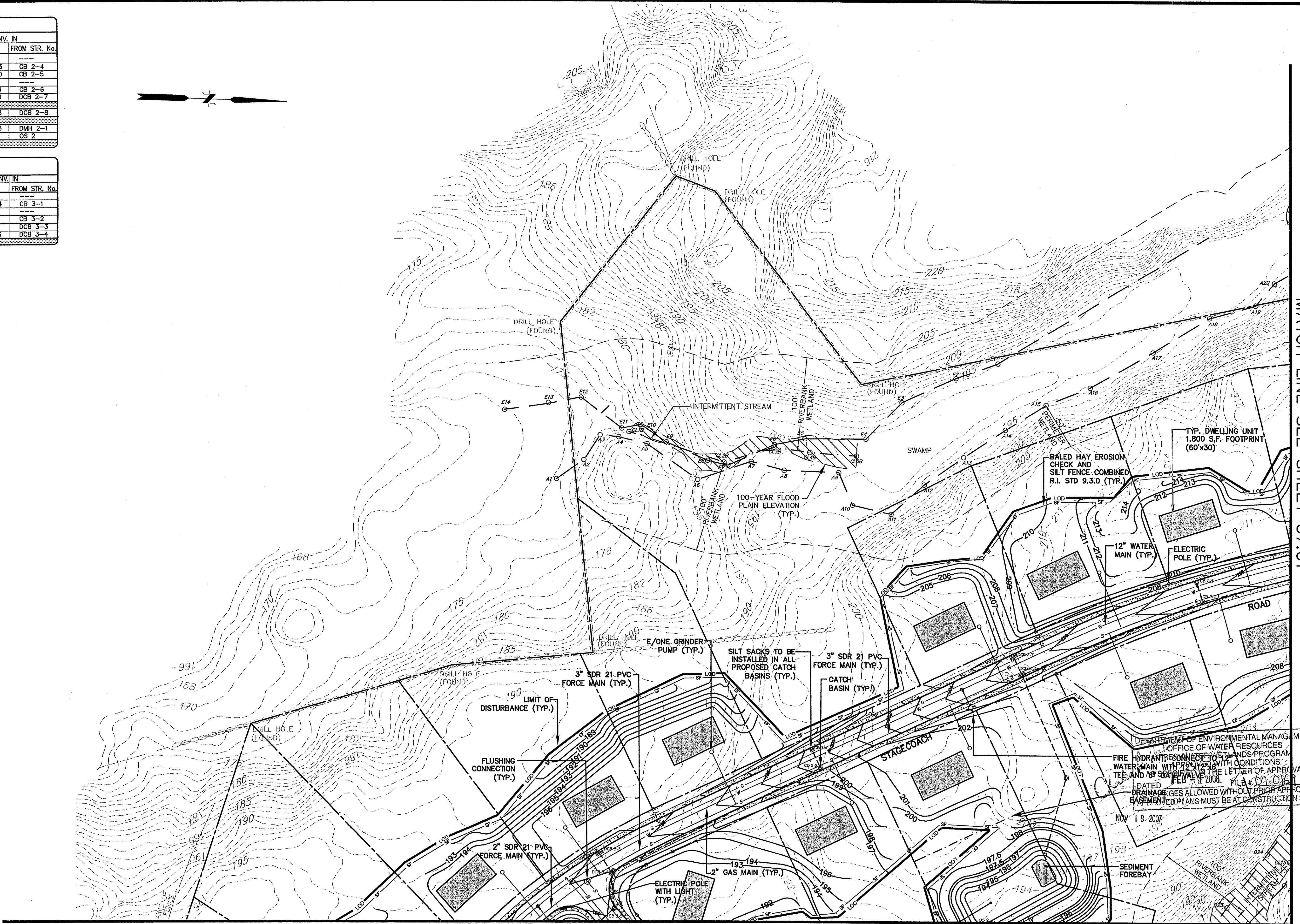
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 MS VIEW:
 UCS:

DRAINAGE STRUCTURES				
STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 2-5 (4' DIA.)	207.4±	204.40	---	---
CB 2-6 (4' DIA.)	207.4±	203.73	203.83	CB 2-4
			204.30	CB 2-5
DCB 2-7 (5' DIA.)	205.1±	202.27	---	---
DCB 2-8 (5' DIA.)	205.1±	201.36	201.46	CB 2-6
			202.18	DCB 2-7
DMH 2-1 (4' DIA.)	201.6±	196.41	197.88	DCB 2-8
FE 2-1	---	---	194.25	DMH 2-1
FE 2-2	---	186.00	---	OS 2

DRAINAGE STRUCTURES				
STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 3-1 (4' DIA.)	199.2±	196.38	---	---
CB 3-2 (4' DIA.)	199.2±	196.14	196.24	CB 3-1
DCB 3-3 (5' DIA.)	195.1±	192.27	---	---
DCB 3-4 (5' DIA.)	195.1±	191.06	191.16	CB 3-2
			191.16	DCB 3-3
CB 3-5 (4' DIA.)	193.7±	190.26	190.36	DCB 3-4

DRAINAGE PIPE		
U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 2-5	CB 2-6	12" HDPE
CB 2-6	DCB 2-8	18" HDPE
DCB 2-7	DCB 2-8	10" HDPE
DCB 2-8	DMH 2-1	18" HDPE
DMH 2-1	FE 2-1	18" RCP
OS 2	FE 2-2	15" RCP

DRAINAGE PIPE		
U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 3-1	CB 3-2	10" HDPE
CB 3-2	DCB 3-4	10" HDPE
DCB 3-3	DCB 3-4	10" HDPE
DCB 3-4	CB 3-5	12" HDPE
CB 3-5	CB 3-6	12" HDPE



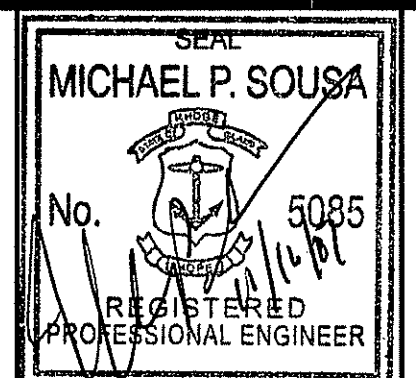
MATCH LINE SEE SHEET C7.03

MATCH LINE SEE SHEET C7.01

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
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PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
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DATUM:	HORIZ.:
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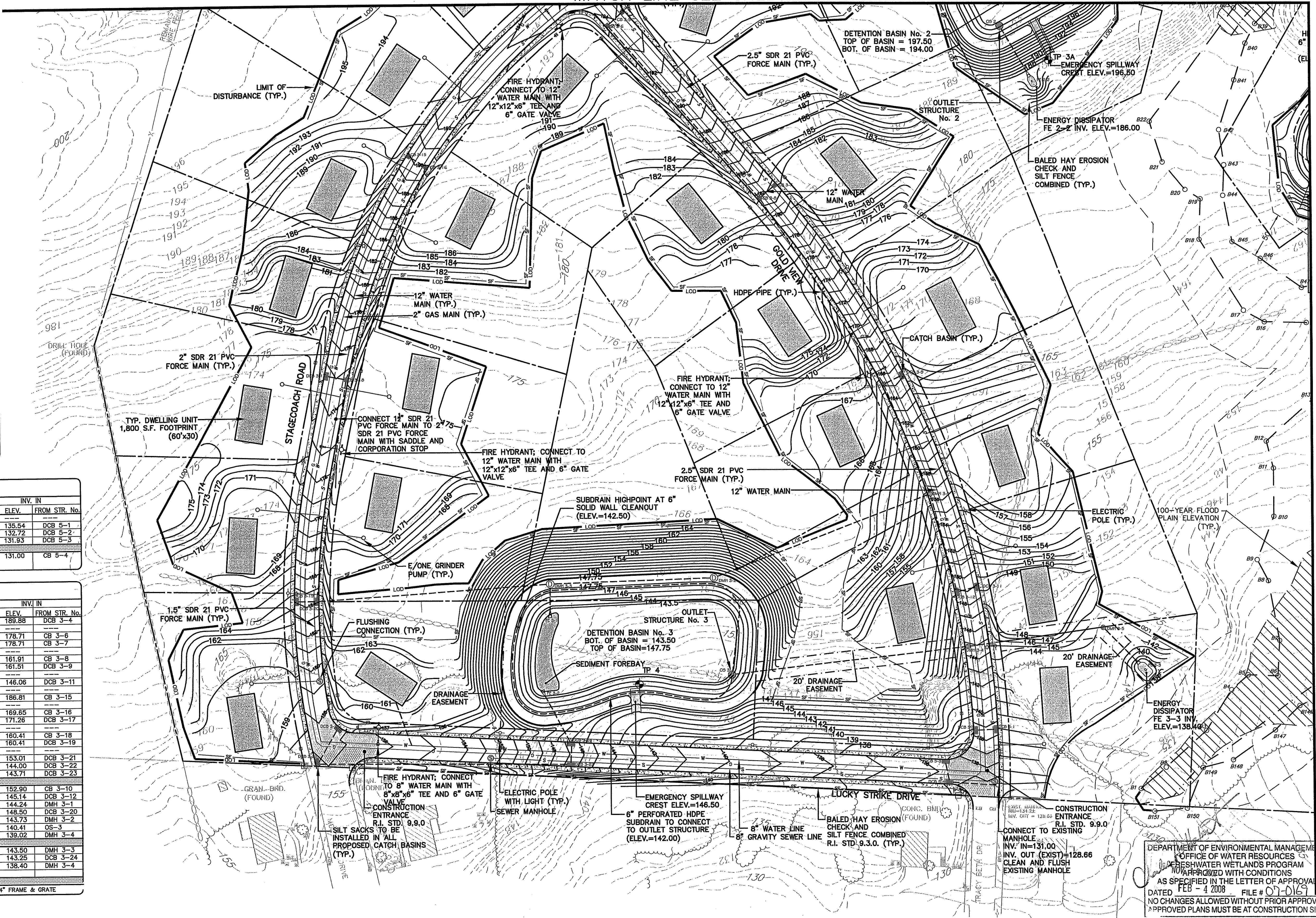
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GOLD RUSH ESTATES
GRADING AND UTILITY PLAN No. 2
ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

PROJ. No.: 2005097.A10
DATE: APRIL 2007
C7.02
11 OF 30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FIRE HYDRANT CONNECTIONS AND WETLANDS PROGRAM
WATER MAIN WITH 12" DIA. 30' DEPTH OF APPROVAL
TEE AND 18" GAS MAIN WITH 12" DIA. 30' DEPTH OF APPROVAL
FEB 15 2008 FILE # C7.01-C
DATED
DRAINAGES ALLOWED WITHOUT PRIOR APPROVAL
BASEMENT PLANS MUST BE AT CONSTRUCTION SITE
NOV 19 2007



DRAINAGE PIPE

U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
DCB 5-1	DCB 5-2	8" HDPE
DCB 5-2	DCB 5-3	8" HDPE
DCB 5-3	DCB 5-4	15" HDPE
DCB 5-4	EXIST. DMH	15" HDPE

DRAINAGE PIPE

U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 3-6	CB 3-8	12" HDPE
CB 3-7	CB 3-9	12" HDPE
CB 3-8	CB 3-10	12" HDPE
DCB 3-9	DMH 3-1	18" HDPE
CB 3-10	DMH 3-1	12" HDPE
DCB 3-11	DMH 3-1	12" HDPE
DCB 3-12	DMH 3-2	30" HDPE
DMH 3-2	DMH 3-3	30" HDPE
CB 3-15	CB 3-16	10" HDPE
CB 3-16	CB 3-18	10" HDPE
DCB 3-17	CB 3-18	15" HDPE
CB 3-18	DCB 3-20	15" HDPE
CB 3-19	CB 3-20	15" HDPE
DCB 3-20	DMH 3-3	15" RCP
DMH 3-3	FE 3-1	30" RCP
DCB 3-21	DCB 3-22	12" HDPE
DCB 3-22	DCB 3-23	12" HDPE
DCB 3-23	DCB 3-24	15" HDPE
DCB 3-24	FE 3-2	18" RCP
DS-3	DMH 3-4	24" RCP
DMH 3-4	DMH 3-5	24" RCP
DMH 3-5	FE 3-3	24" RCP

DRAINAGE STRUCTURES

STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
DCB 5-1 (4" DIA.)	138.5±	135.90	135.54	DCB 5-1
DCB 5-2 (4" DIA.)	138.5±	135.44	132.72	DCB 5-2
DCB 5-3 (4" DIA.)	135.5±	132.25	131.93	DCB 5-3
DCB 5-4 (4" DIA.)	135.5±	131.83		DCB 5-3
EXIST. DMH	134.2±	128.6± (EXIST.)	131.00	CB 5-4

DRAINAGE STRUCTURES

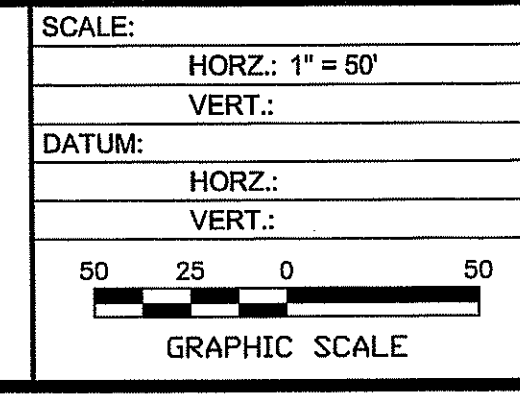
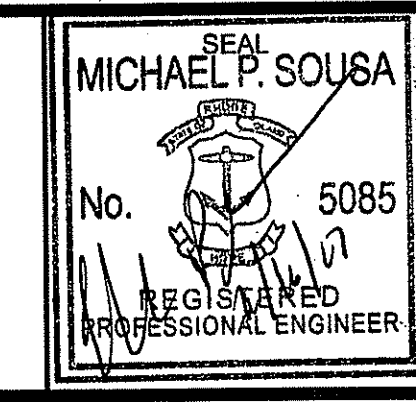
STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 3-6 (4" DIA.)	193.7±	188.47	189.88	DCB 3-4
CB 3-7 (4" DIA.)	181.8±	178.80	178.71	CB 3-6
CB 3-8 (4" DIA.)	181.8±	171.82	178.71	CB 3-7
DCB 3-9 (5" DIA.)	165.1±	161.60	161.91	CB 3-8
CB 3-10 (4" DIA.)	165.1±	156.62	161.51	DCB 3-9
DCB 3-11 (5" DIA.)*	148.9±	146.15	146.06	DCB 3-11
DCB 3-12 (5" DIA.)	148.9±	145.66	146.06	DCB 3-11
CB 3-15 (4" DIA.)	190.0±	187.17	188.81	CB 3-15
CB 3-16 (4" DIA.)	190.0±	181.70	188.81	CB 3-15
DCB 3-17 (4" DIA.)	174.6±	171.35	169.65	CB 3-16
CB 3-18 (4" DIA.)	174.6±	167.46	171.26	DCB 3-17
DCB 3-19 (5" DIA.)	164.0±	160.50	160.41	CB 3-18
DCB 3-20 (5" DIA.)	164.0±	154.32	160.41	DCB 3-19
DCB 3-21 (5" DIA.)	156.3±	153.21	153.01	DCB 3-21
DCB 3-22 (5" DIA.)	157.2±	152.91	144.00	DCB 3-22
DCB 3-23 (5" DIA.)	147.0±	143.80	143.71	DCB 3-23
DCB 3-24 (5" DIA.)	147.0±	143.51	143.71	DCB 3-23
DMH 3-1 (6" DIA.)	156.9±	144.95	145.14	DCB 3-10
DMH 3-2 (5" DIA.)	148.0±	144.24	144.24	DMH 3-1
DMH 3-3 (4" DIA.)	152.0±	143.73	148.50	DCB 3-20
DMH 3-4 (4" DIA.)	144.8±	140.31	143.73	DMH 3-2
DMH 3-5 (5" DIA.)	143.5±	138.92	139.02	DMH 3-4
FE 3-1 (30")			143.50	DMH 3-3
FE 3-2 (18")			143.25	DCB 3-24
FE 3-3 (24")			138.40	DMH 3-4

* DESIGNATES CATCH BASIN OR DOUBLE CATCH BASIN TO HAVE 4" FRAME & GRATE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NO APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB - 4 2008 FILE # 07-0169
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		DESCRIPTION	BY

PROJ. MANAGER: SIMM
CHIEF DESIGNER: LCB
REVIEWED BY: DATE



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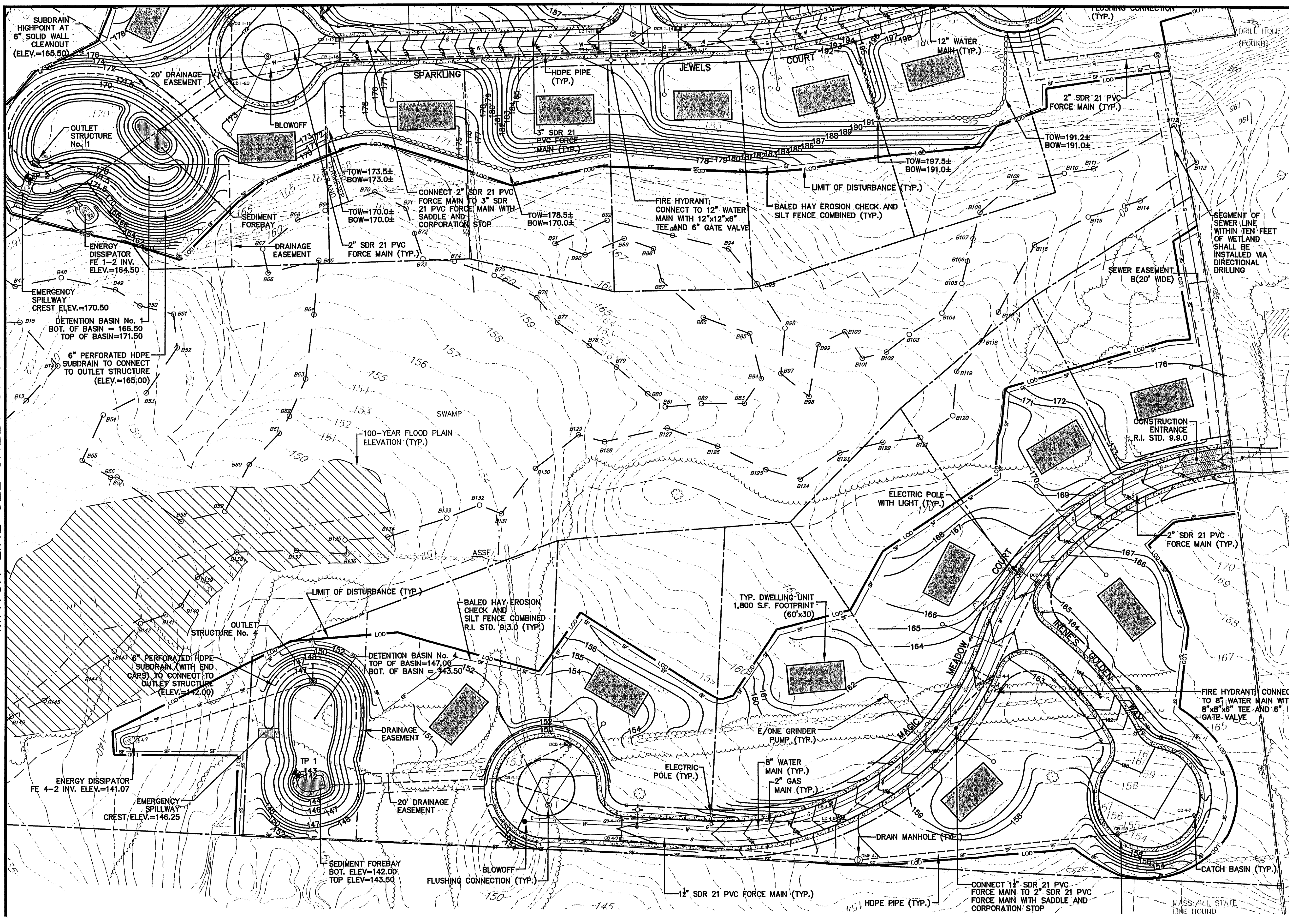
GOLD RUSH ESTATES
GRADING AND UTILITY PLAN No. 3
ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
DATE: APRIL 2007
C7.03
12 OF 30

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 LMAN: CTB: FCO_STANDARD
 LMS VIEW: LUCS:50

MATCH LINE SEE SHEET C7.01

MATCH LINE SEE SHEET C7.03



DRAINAGE STRUCTURES

STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
CB 1-11 (4' DIA.)	186.0±	181.63	181.73	DCB 1-10
DCB 1-14 (8' DIA.)	187.6±	184.35	---	---
CB 1-15 (8' DIA.)	187.6±	183.30	183.70	DCB 1-14
CB 1-16 (8' DIA.)	186.0±	172.90	181.02	CB 1-11
DCB 1-17 (8' DIA.)	173.6±	169.59	---	---
CB 1-18 (8' DIA.)	173.6±	167.83	166.63	CB 1-16
CB 1-19 (8' DIA.)	171.9±	168.65	169.23	DCB 1-17
CB 1-20 (8' DIA.)*	172.0±	167.17	167.27	CB 1-18
FE 1-1	---	---	166.75	CB 1-20
FE 1-2	---	164.5	---	OS 1

* DESIGNATES CATCH BASIN OR DOUBLE CATCH BASIN TO HAVE 4" FRAME & GRATE

DRAINAGE STRUCTURES

STRUCTURE NUMBER	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	FROM STR. No.
DCB 4-1 (8' DIA.)	164.3±	161.30	---	---
DCB 4-2 (8' DIA.)	164.3±	160.84	160.94	DCB 4-1
CB 4-3 (4' DIA.)	162.0±	158.63	---	---
CB 4-4 (4' DIA.)	162.0±	157.51	158.74	DCB 4-2
CB 4-5 (4' DIA.)*	154.0±	151.31	---	---
CB 4-6 (8' DIA.)*	154.0±	150.80	151.00	CB 4-4
CB 4-7 (8' DIA.)*	158.4±	158.40	151.20	CB 4-5
CB 4-8 (8' DIA.)*	158.4±	153.00	155.01	CB 4-7
CB 4-9 (4' DIA.)	149.7±	146.51	146.61	DMH 4-1
CB 4-10 (8' DIA.)*	149.7±	146.14	146.58	CB 4-6
DCB 4-11 (8' DIA.)*	148.7±	145.56	146.42	CB 4-9
CB 4-12 (8' DIA.)*	148.7±	145.35	145.35	CB 4-10
DMH 4-1 (4' DIA.)	155.5±	147.58	147.68	CB 4-8
FE 4-1 (24")	---	---	143.50	DCB 4-11
FE 4-2 (18")	---	143.00	---	OS 4

* DESIGNATES CATCH BASIN OR DOUBLE CATCH BASIN TO HAVE 4" FRAME & GRATE

DRAINAGE PIPE

U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
CB 1-11	CB 1-16	15" HDPE
DCB 1-14	CB 1-15	15" HDPE
CB 1-15	CB 1-18	18" HDPE
CB 1-16	CB 1-18	24" HDPE
DCB 1-17	CB 1-18	15" HDPE
CB 1-18	CB 1-20	36" HDPE
CB 1-19	CB 1-20	15" HDPE
CB 1-20	FE 1-1	36" RCP
OS 1	FE 1-2	24" RCP

DRAINAGE PIPE

U/S STRUCTURE	D/S STRUCTURE	PIPE SIZE AND MATERIAL
DCB 4-1	DCB 4-2	12" HDPE
DCB 4-2	CB 4-4	12" HDPE
CB 4-3	CB 4-4	15" HDPE
CB 4-4	CB 4-6	15" HDPE
CB 4-5	CB 4-6	12" HDPE
CB 4-6	CB 4-10	18" HDPE
CB 4-7	CB 4-8	12" HDPE
CB 4-8	DMH 4-1	15" HDPE
DMH 4-1	CB 4-9	15" HDPE
CB 4-9	CB 4-10	15" HDPE
CB 4-10	CB 4-12	24" HDPE
DCB 4-11	CB 4-12	18" HDPE
CB 4-12	FE 4-1	24" RCP
OS 4	FE 4-2	18" RCP

NOV 19 2007

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 FEB 4 2008 FILE # 07-0169
 DATED
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER: SMM
 CHIEF DESIGNER: LCB
 REVIEWED BY: DATE

SEAL
 MICHAEL P. SOUSA
 No. 5085
 REGISTERED PROFESSIONAL ENGINEER

SCALE:
 HORZ.: 1" = 50'
 VERT.:
 DATUM:
 HORZ.:
 VERT.:
 GRAPHIC SCALE

50 25 0 50

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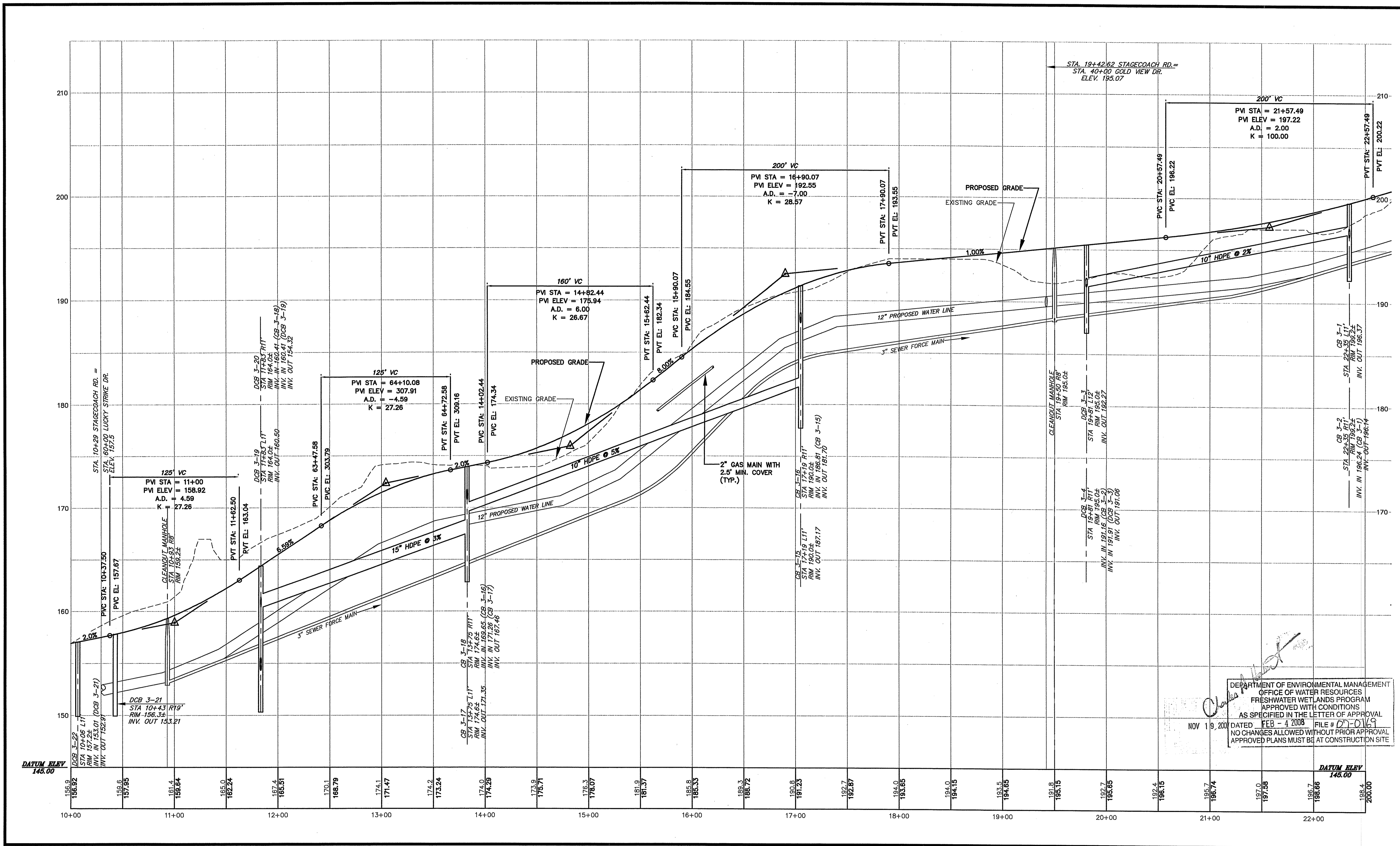
275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
 GRADING AND UTILITY PLAN No. 4
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007

C7.04
13 OF 30

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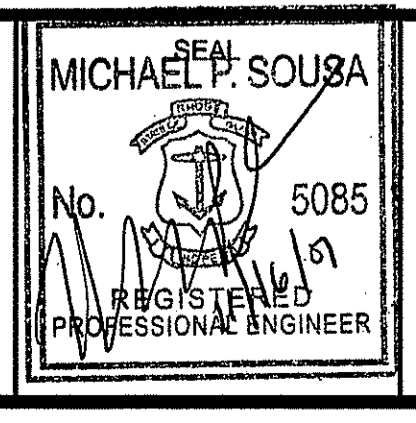


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 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
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 NOV 19, 2007 DATED FEB - 4 2008 FILE # 07-0169
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL



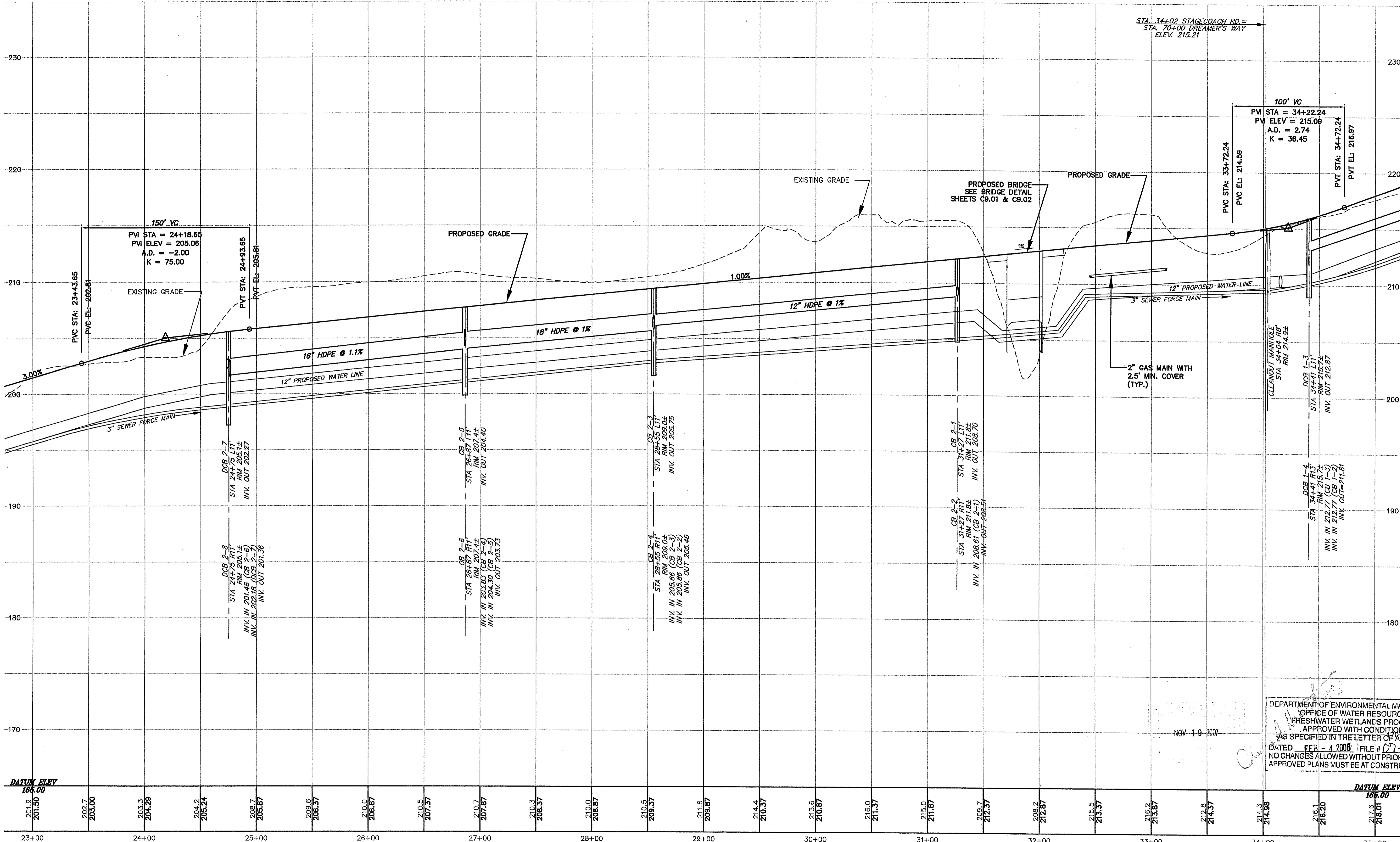
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	VERT.: 1" = 4'
DATUM:	HORIZ.:
	VERT.:

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GOLD RUSH ESTATES
STAGECOACH ROAD PROFILE
 STA. 10+00 TO STA. 22+75
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050927.A10
 DATE: APRIL 2007
C8.01
14 OF 30

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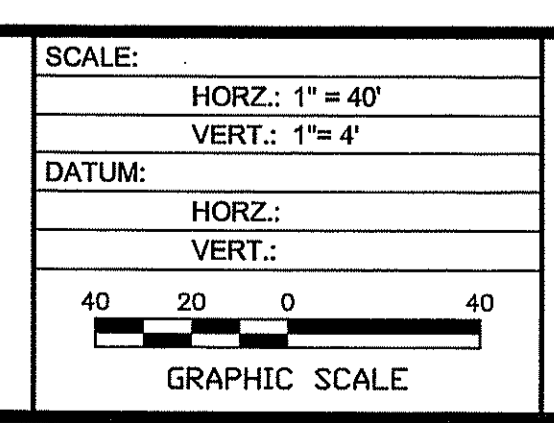
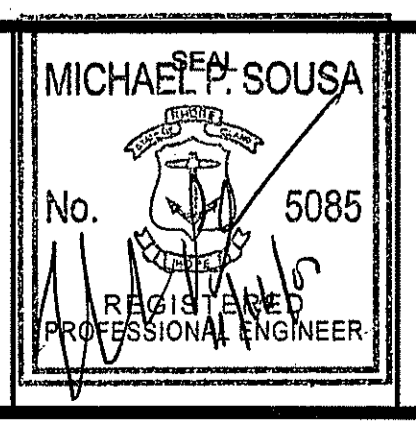


NOTE:
 CONTRACTOR IS TO VERIFY LOCATION AND ELEVATIONS OF STREAM CENTERLINE PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OF ANY VARIATIONS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

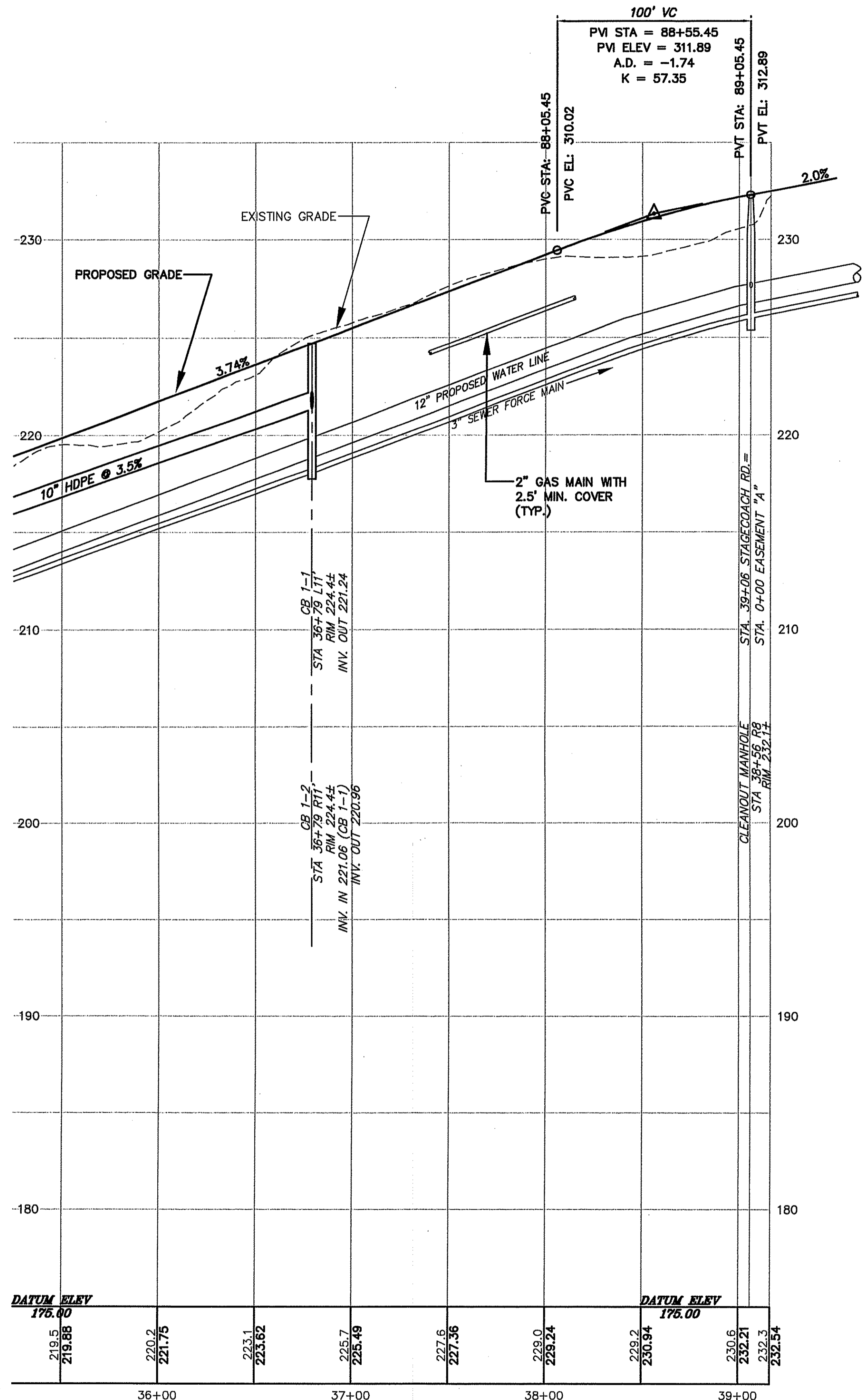


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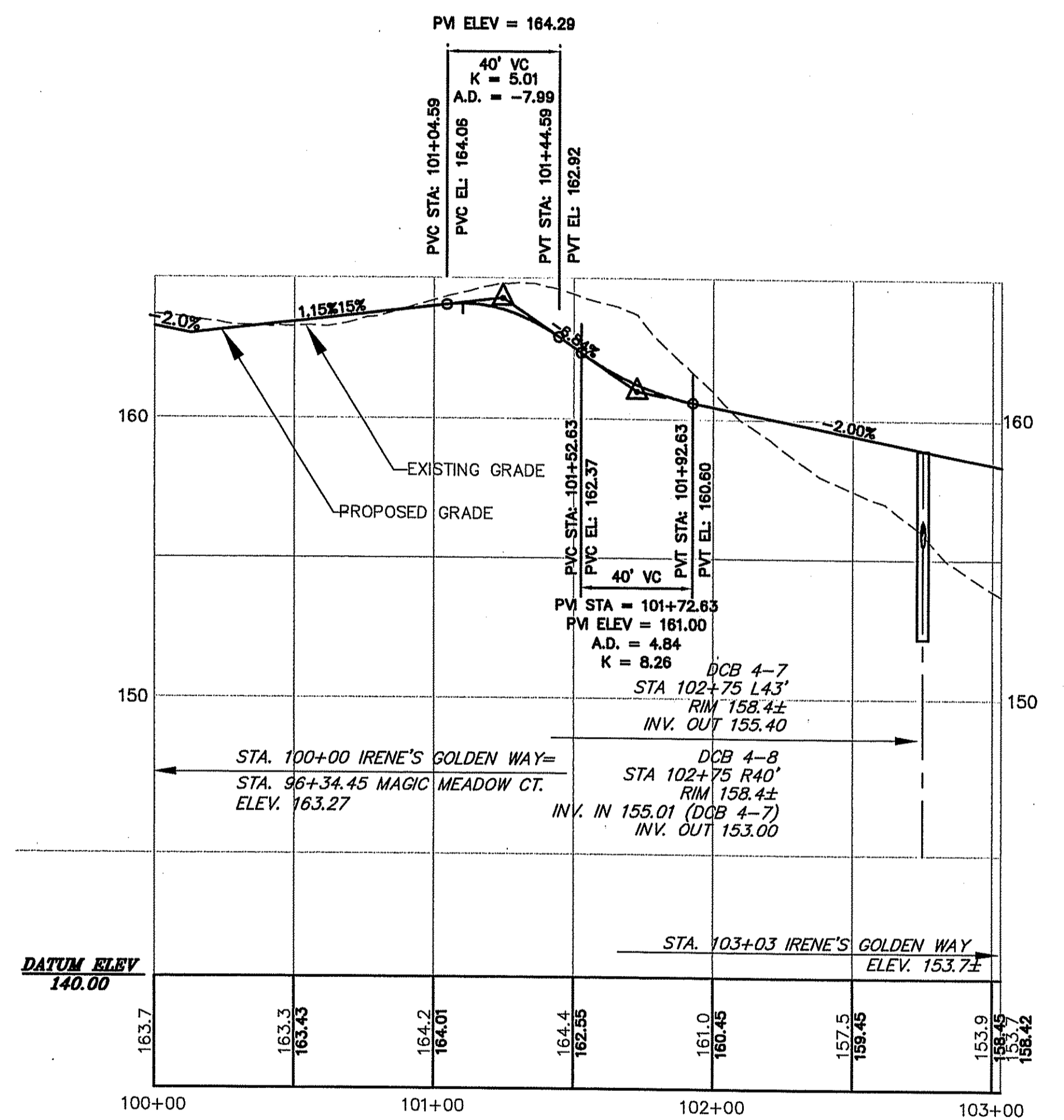
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GOLD RUSH ESTATES
 STAGECOACH ROAD PROFILE
 STA. 22+75 TO 35+25
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007
C8.02
15 OF 30



PROFILE STAGECOACH ROAD



PROFILE IRENE'S GOLDEN WAY

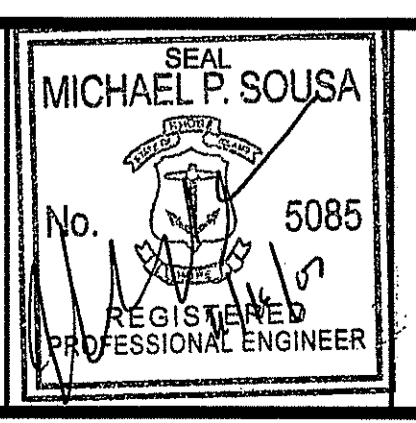
NOV 19 2007

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL



SCALE:

HORIZ.: 1" = 40'
 VERT.: 1" = 4'

DATUM:

HORIZ.:
 VERT.:

40 20 0 40
 GRAPHIC SCALE

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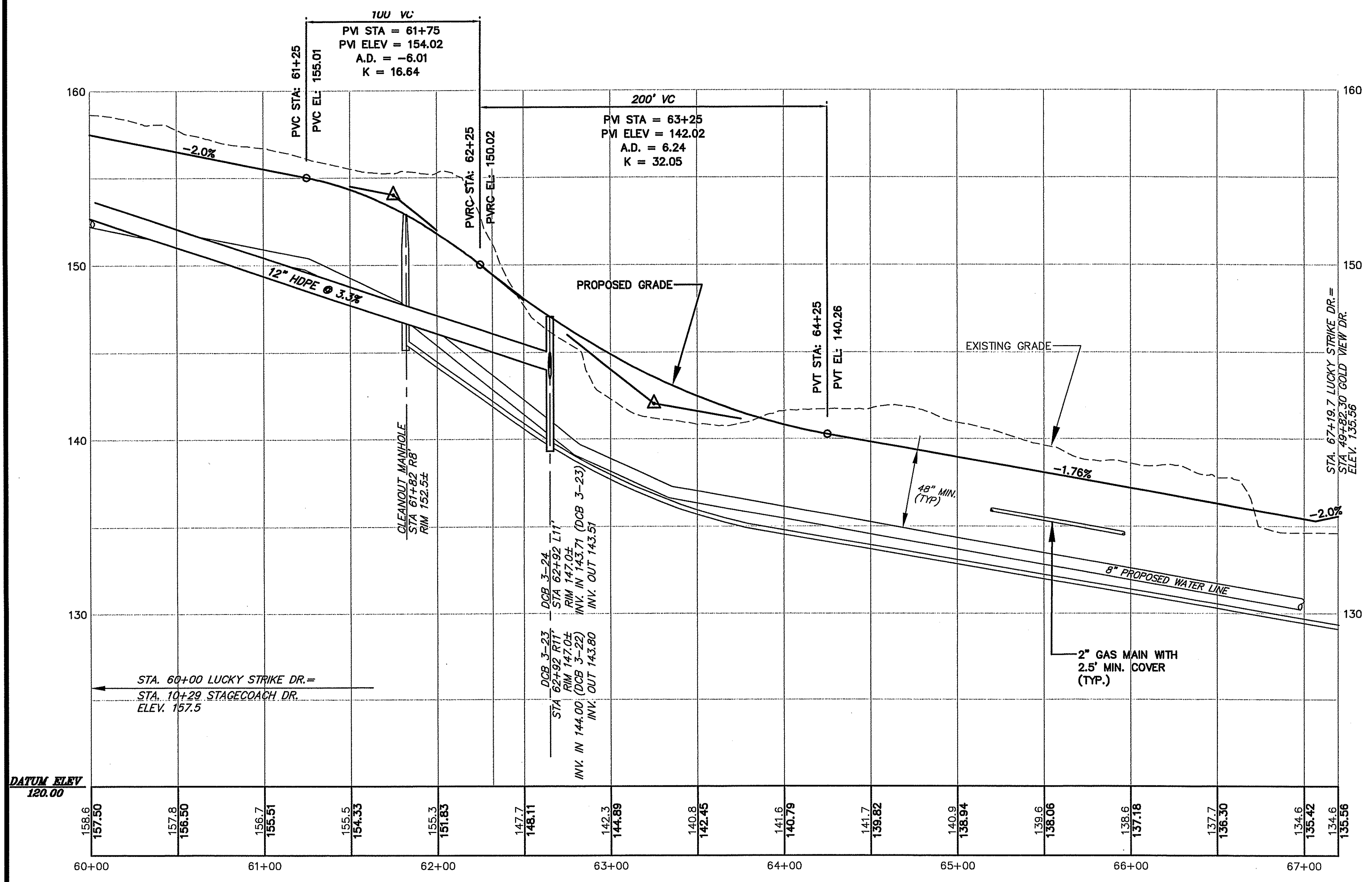
GOLD RUSH ESTATES
 STAGECOACH ROAD PROFILE
 STA. 22+75 TO 35+25
 & IRENE'S GOLDEN WAY
 ASSESSOR'S PLAT NO. 17/LOT4

CUMBERLAND RHODE ISLAND

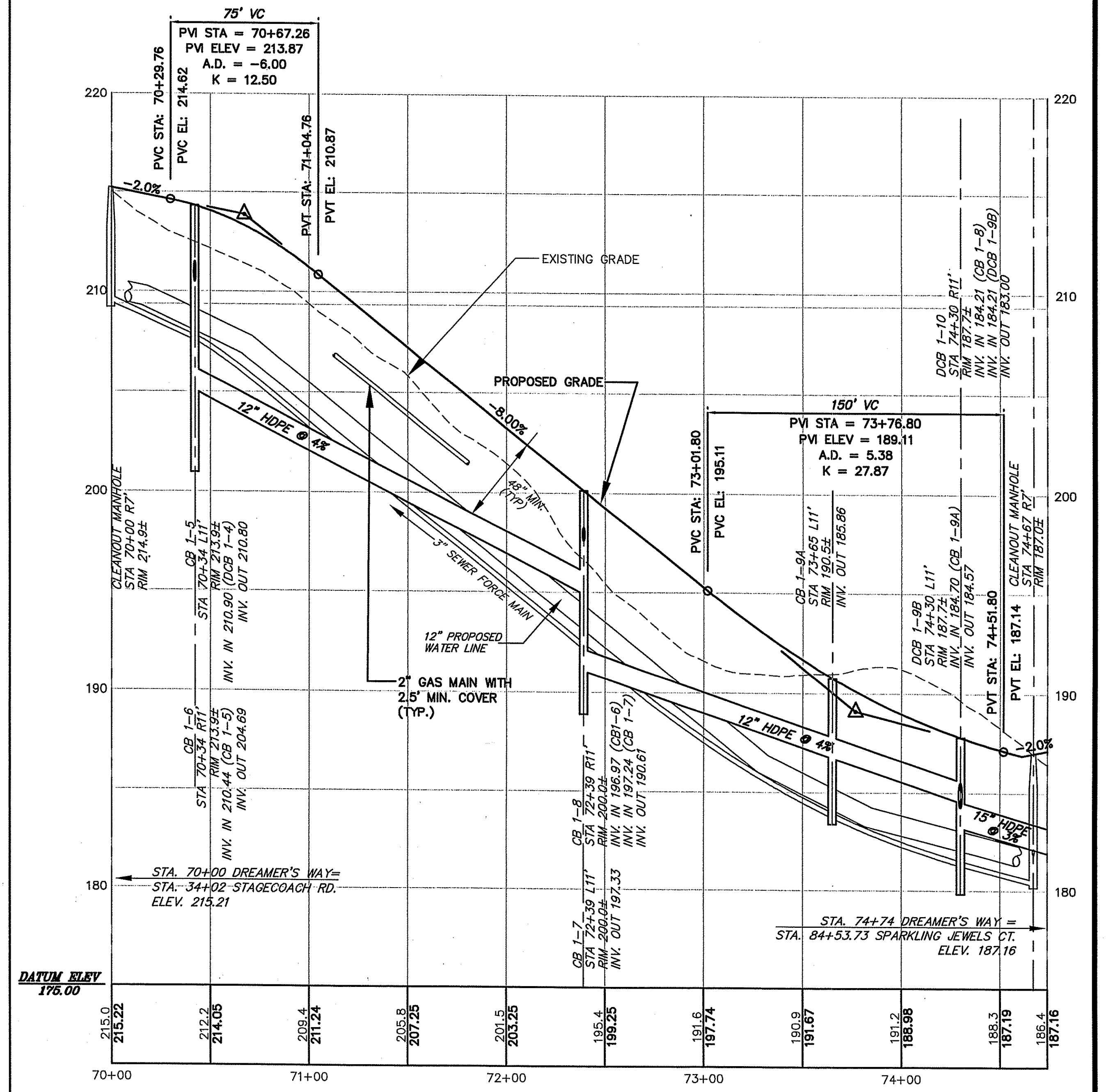
PROJ. No.: 20050997.A10
 DATE: APRIL 2007

C8.03
16 OF 30

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 UCS:



PROFILE LUCKY STRIKE DRIVE
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 4'

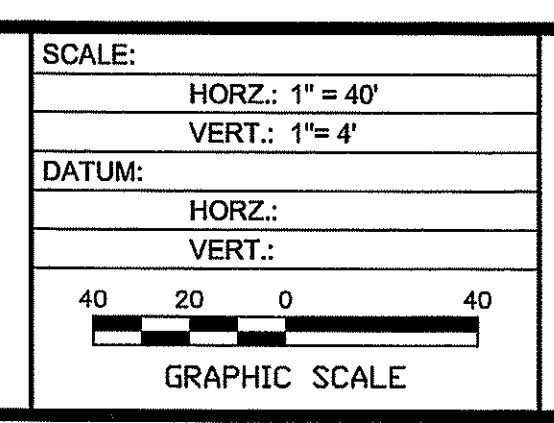
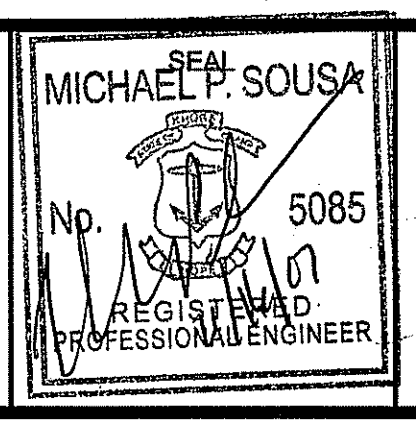


PROFILE DREAMER'S WAY
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



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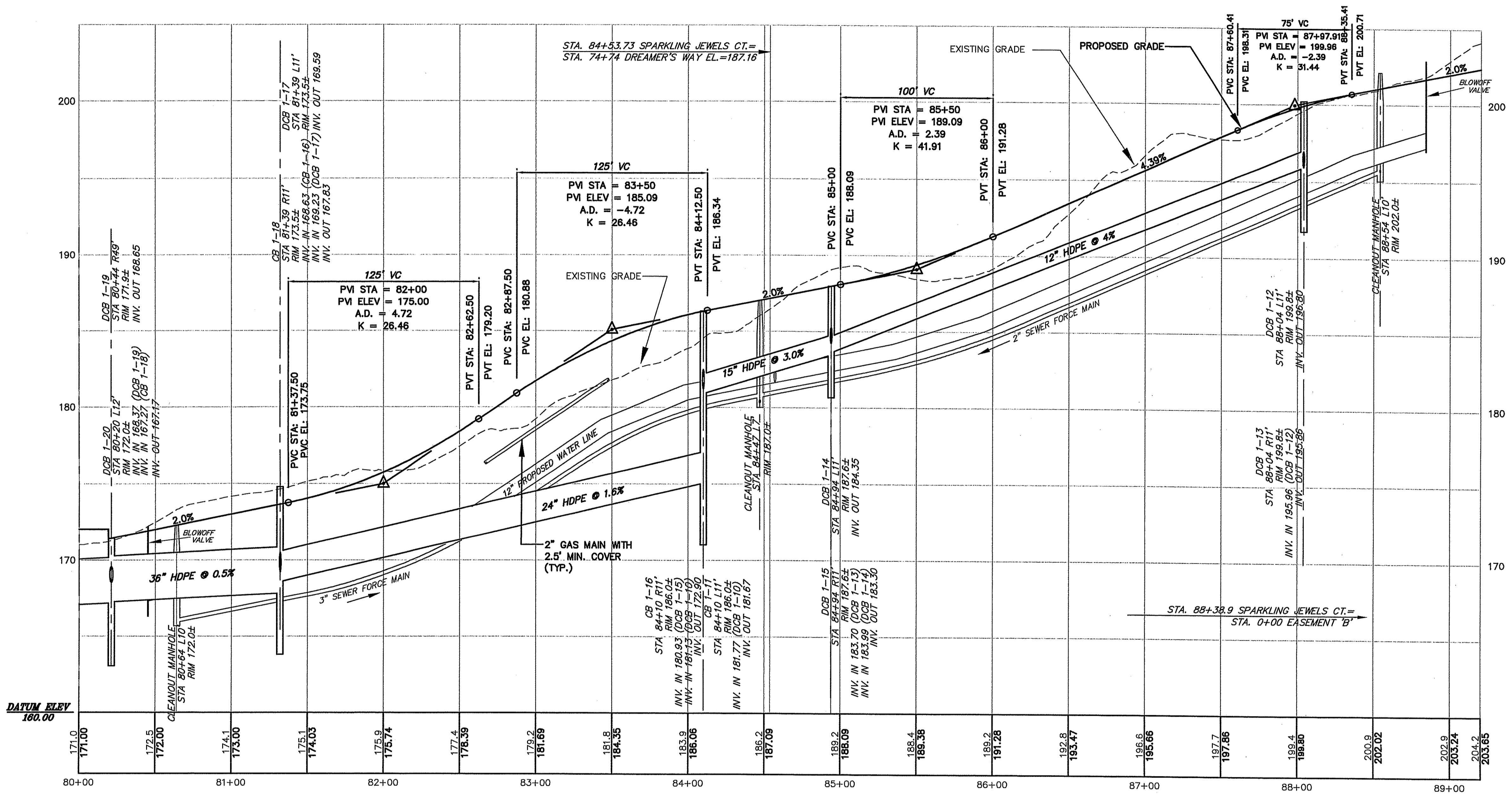
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GOLD RUSH ESTATES
LUCKY STRIKE DRIVE AND
DREAMER'S WAY PROFILE
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007
C8.04
17 OF 30

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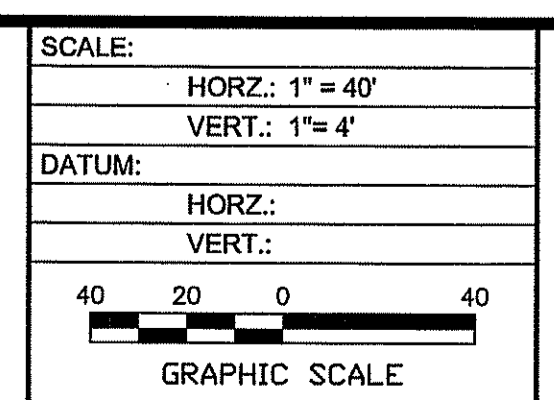
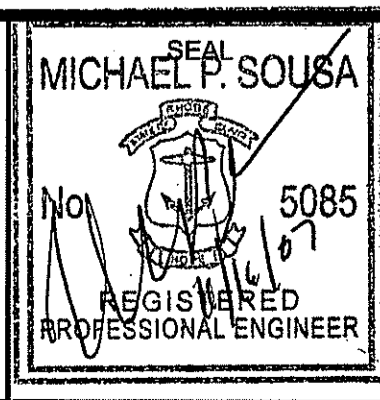


SPARKLING JEWELS COURT
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

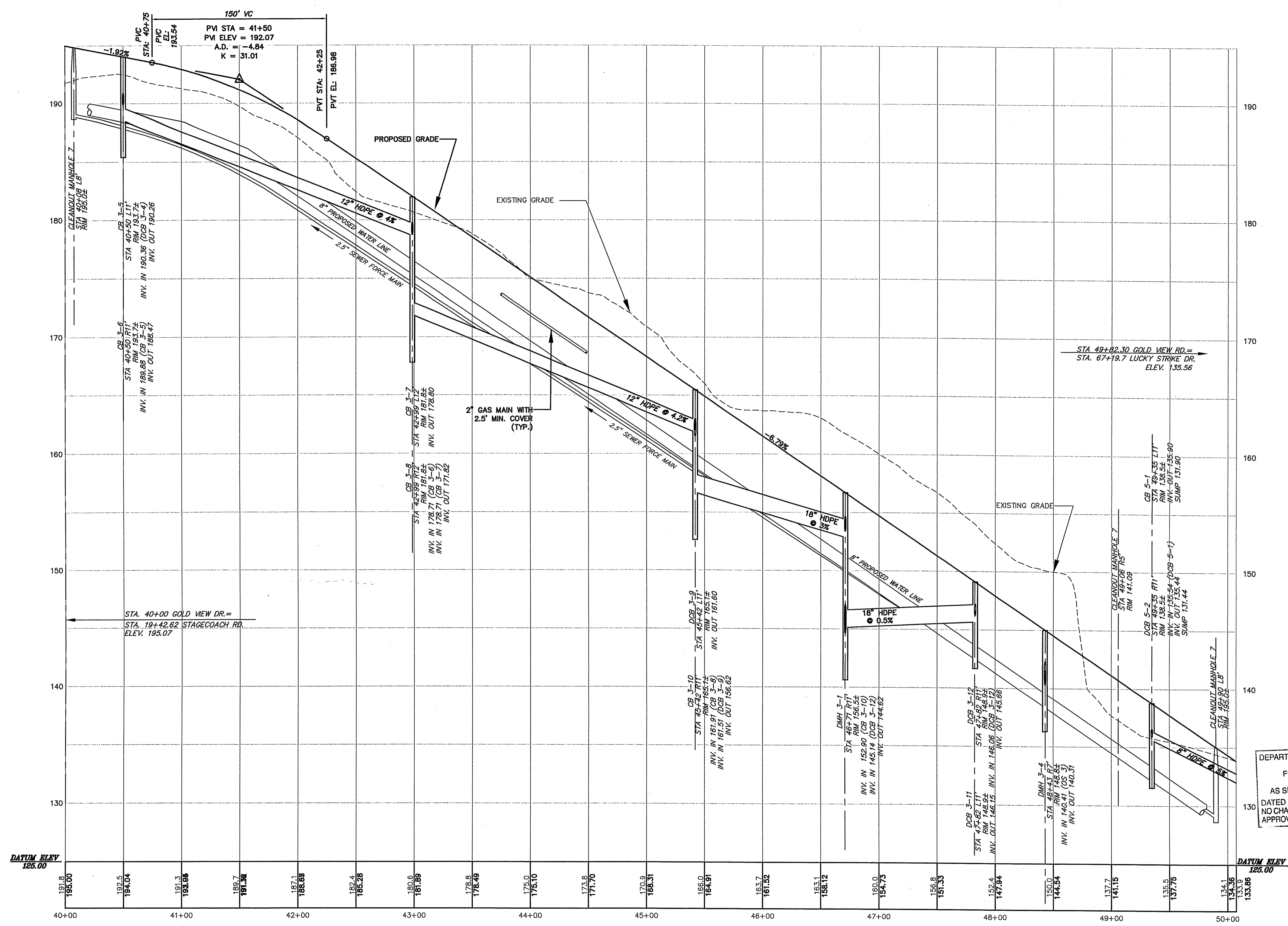
PROJ. MANAGER: SMM
 CHIEF DESIGNER: LCB
 REVIEWED BY: DATE



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GOLD RUSH ESTATES
SPARKLING JEWEL COURT
 STA. 80+00 TO STA. 89+20.37
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997A10
 DATE: APRIL 2007
C8.05
18 OF 30



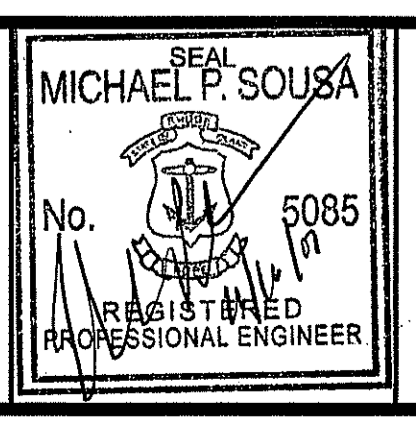
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB - 4 2008 FILE # 02-0169
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert
 NOV 19 2007

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER: SMM
 CHIEF DESIGNER: LCB
 REVIEWED BY: DATE

SEAL



SCALE:
 HORIZ.: 1" = 40'
 VERT.: 1" = 4'
 DATUM:
 HORIZ.:
 VERT.:
 GRAPHIC SCALE

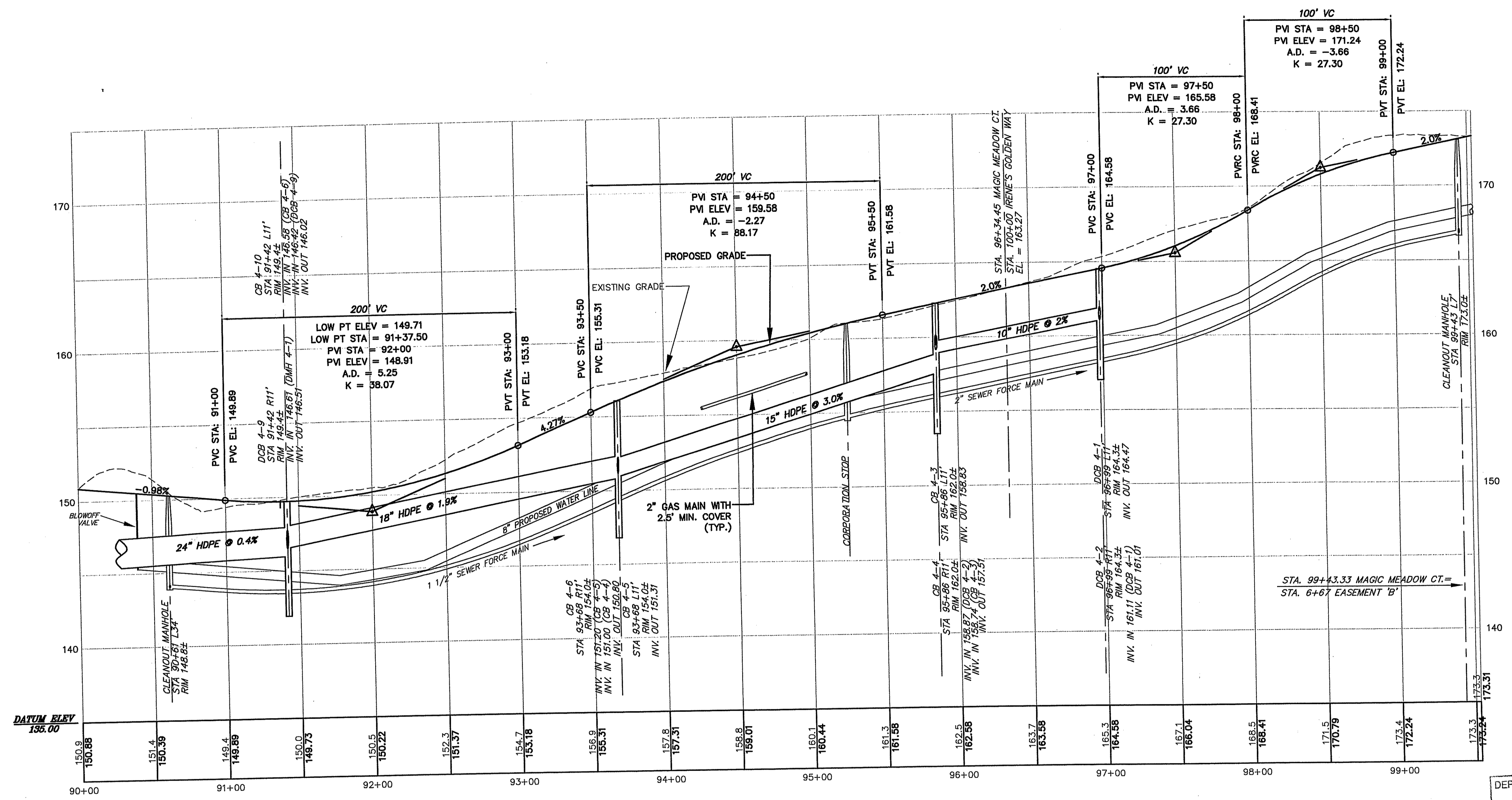
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GOLD RUSH ESTATES
 GOLD VIEW DRIVE
 STA. 40+00 TO STA. 50+07.31
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997A10
 DATE: APRIL 2007
C8.06
19 OF 30



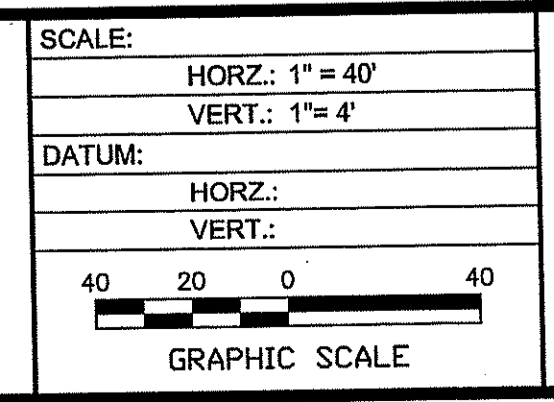
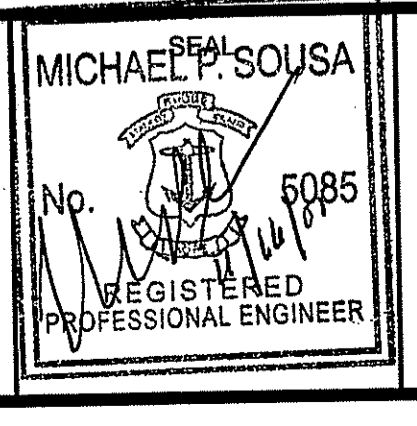
MAGIC MEADOW COURT
 SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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Charles A. Hester
 NOV 19 2007

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



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GOLD RUSH ESTATES
 MAGIC MEADOW COURT
 STA. 90+00 TO STA. 00+53.07
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007

C8.07
20 OF 30

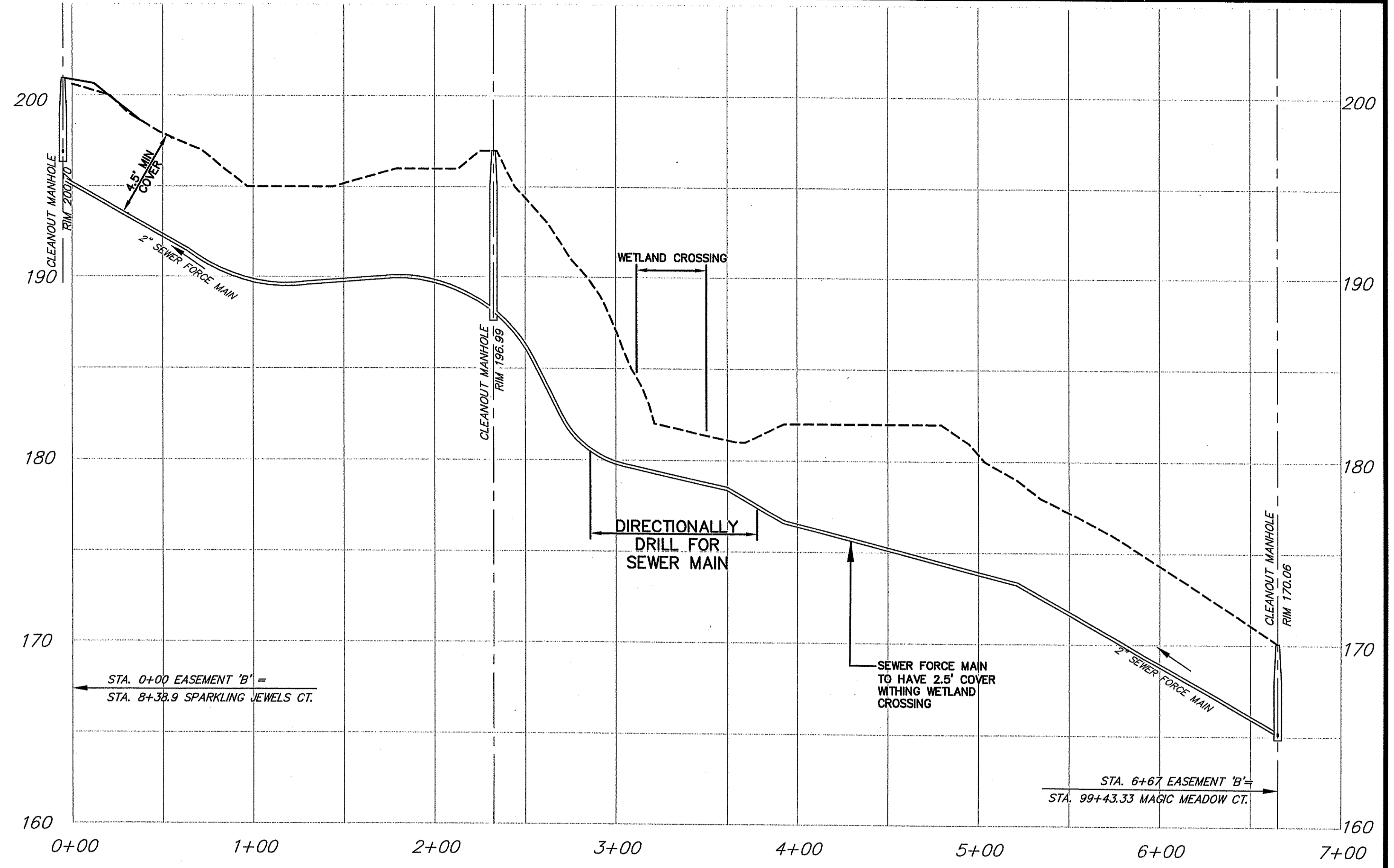
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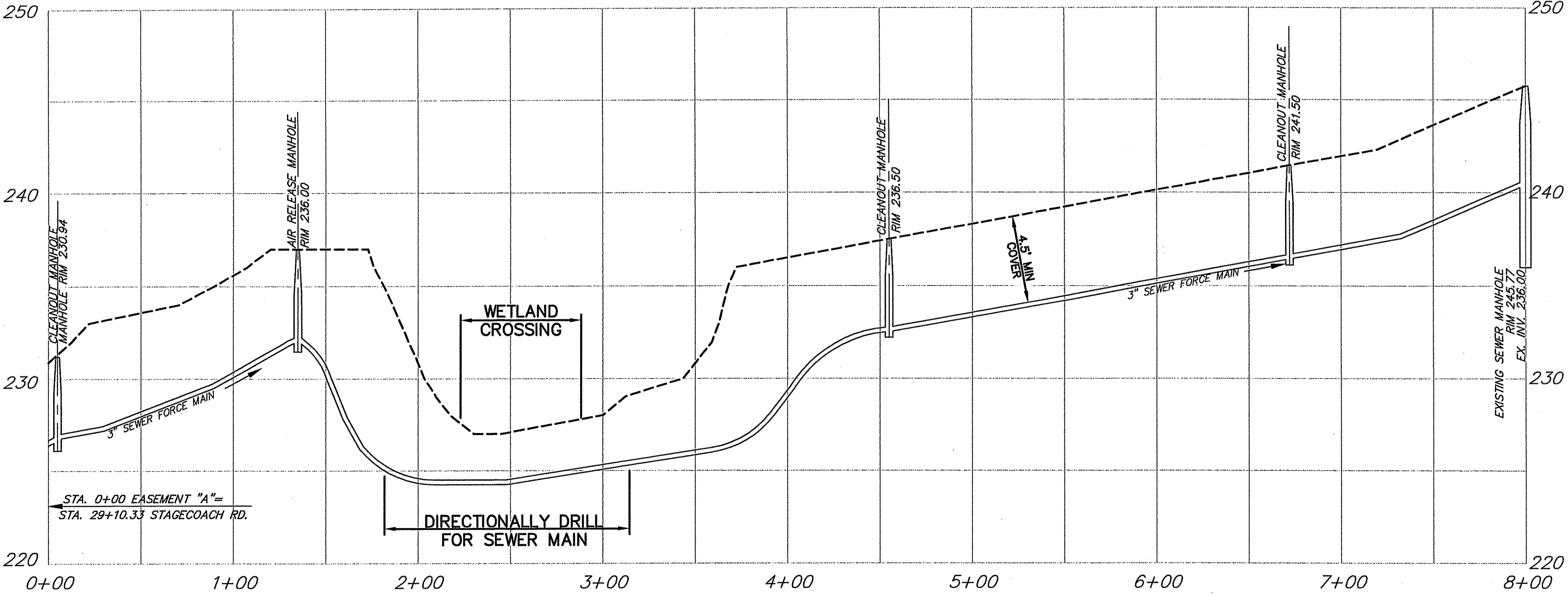
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MS VIEW:

UCS:



SEWER EASEMENT A



SEWER EASEMENT B

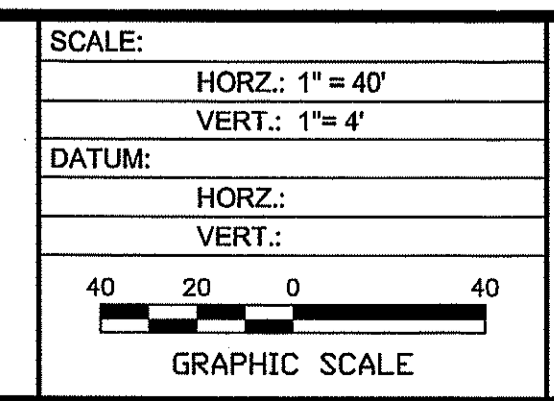
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB - 4 2008 FILE # 07-0169
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- NOTE:
1. THE PROPOSED SEWER MAIN LOCATED IN WETLAND AREAS SHALL BE INSTALLED BY DIRECTION DRILLING.
 2. THE FOLLOWING IS REQUIRED TO MINIMIZE WETLAND DISTURBANCE:
 ALL EQUIPMENT AND MATERIALS SHALL BE KEPT OUTSIDE OF WETLAND AREAS
 EQUIPMENT STAGING AREAS, LAUNCH PITS, AND RECEIVING PITS SHALL BE LOCATED OUTSIDE OF ALL WETLAND AREAS
 BEDDING MATERIAL SHALL NOT BE USED IN WETLAND AREAS.
 THE SEWER LINE SHALL BE SLEEVED IN CONTINUOUS HDPE PIPE TO EASE PIPELINE MAINTENANCE

NOV 19 2007

No.	DATE	DESCRIPTION	BY
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PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



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GOLD RUSH ESTATES
 SEWER EASEMENTS

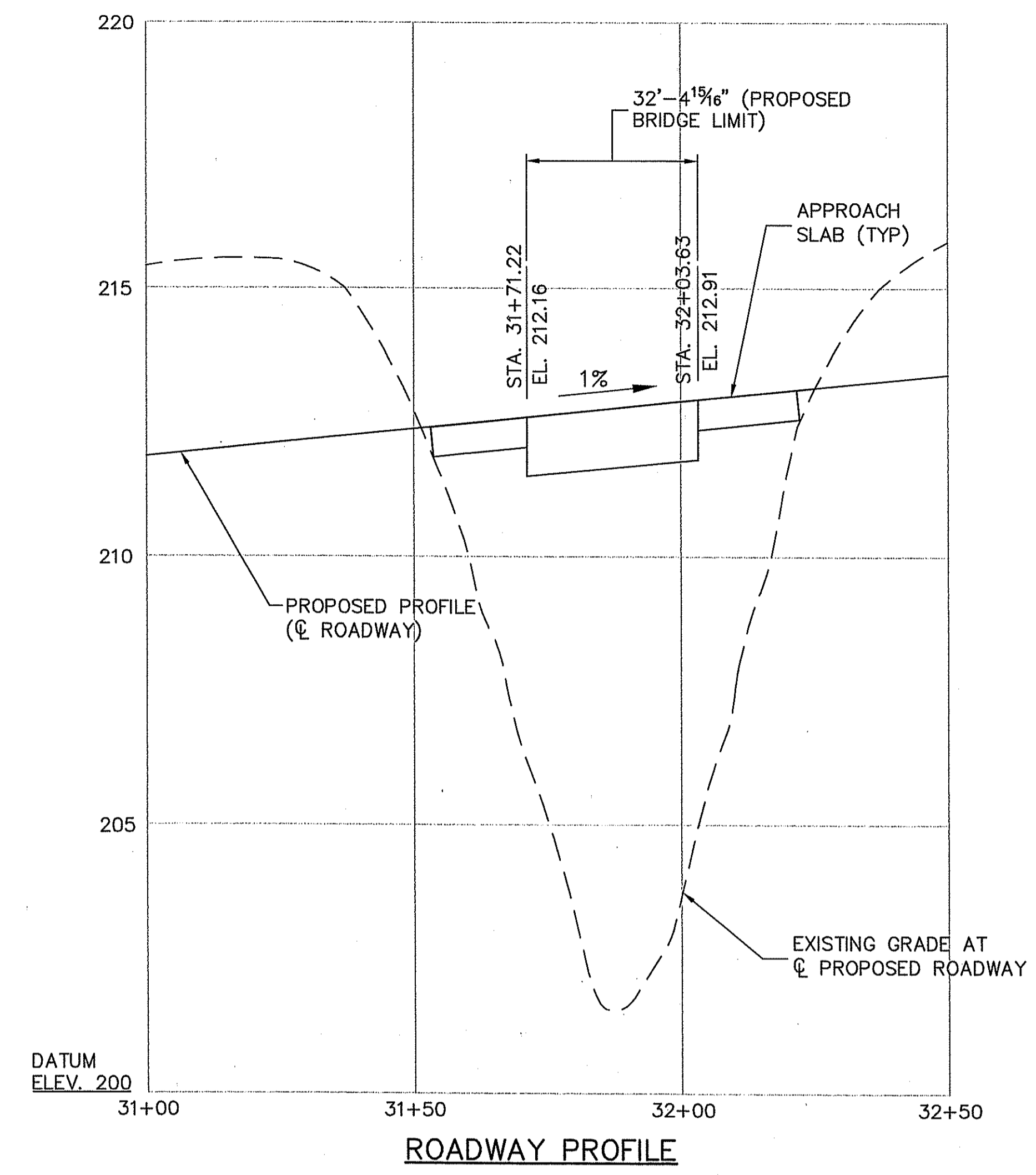
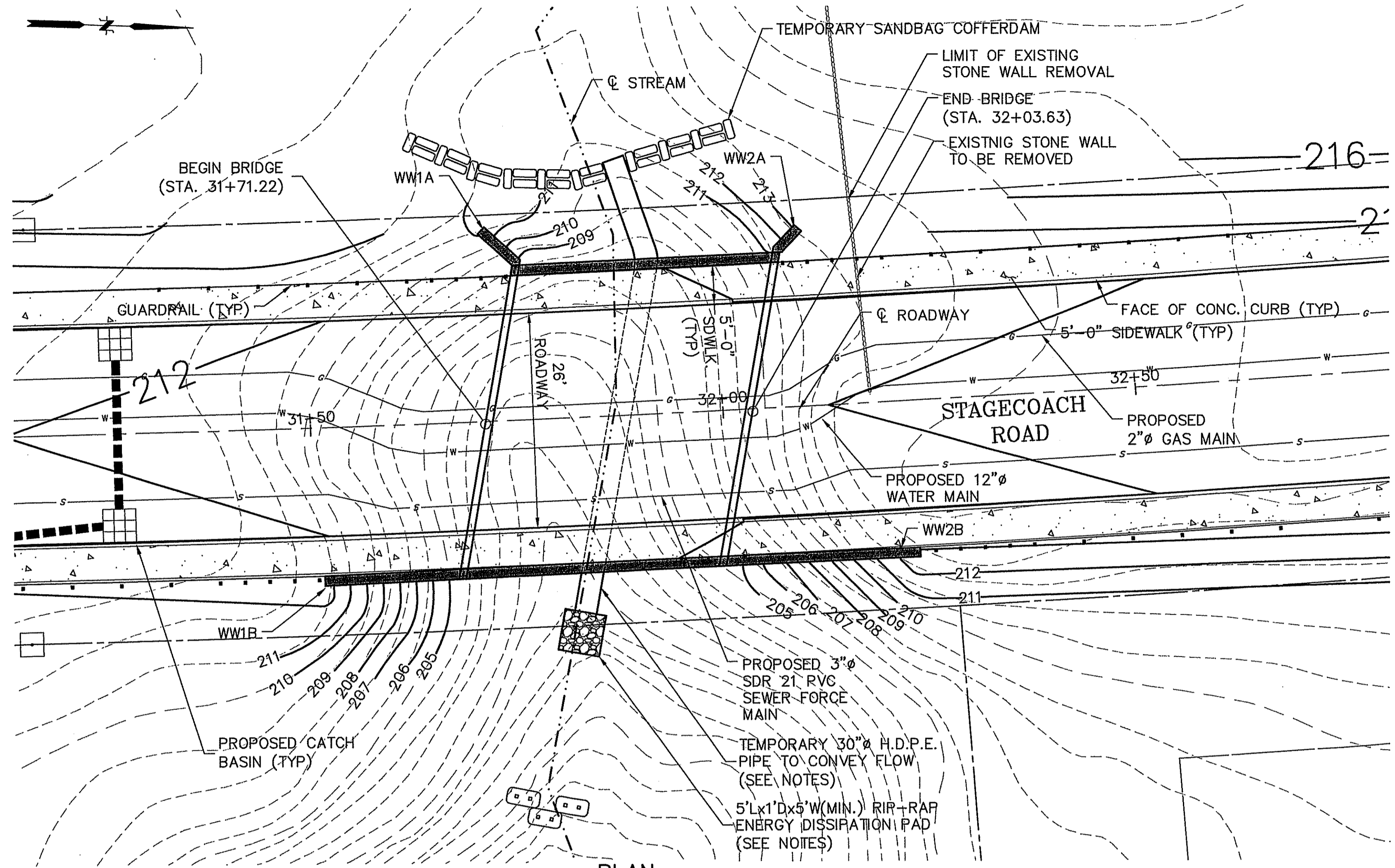
ASSESSOR'S PLAT NO. 17/LOT4

CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007

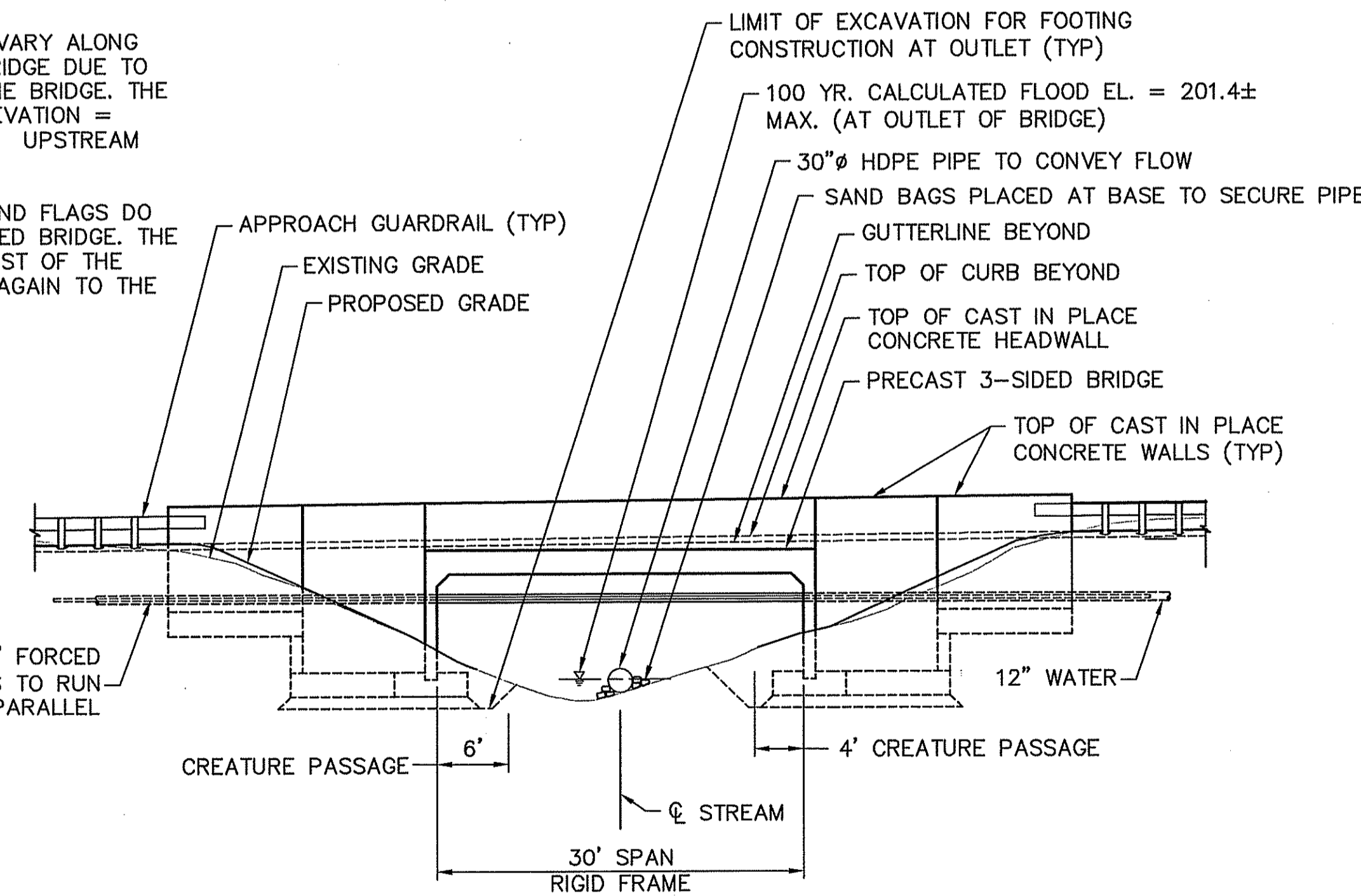
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21 OF 30

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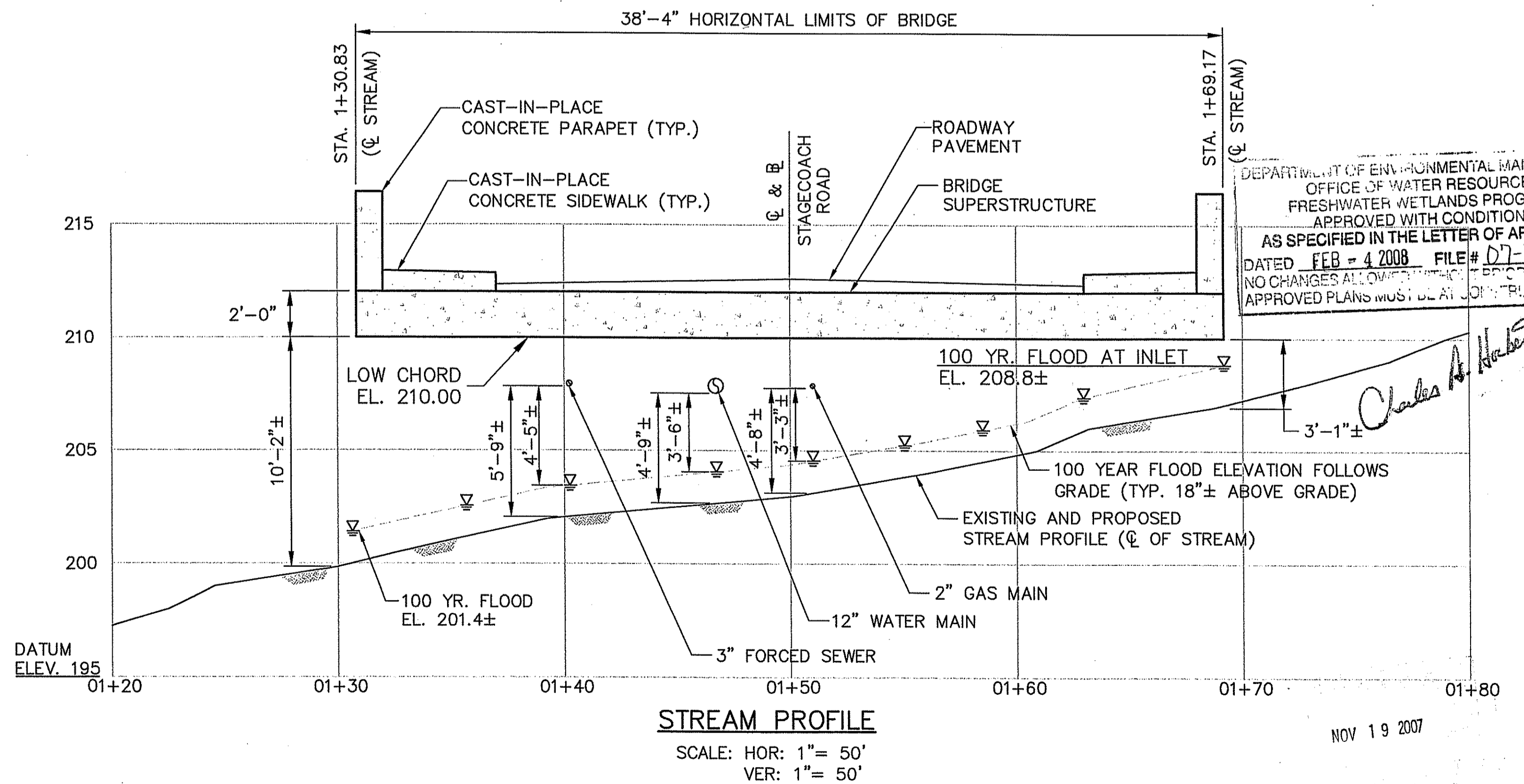


NOTES:
CALCULATED FLOOD ELEVATIONS VARY ALONG THE WIDTH OF THE PROPOSED BRIDGE DUE TO THE STREAM GRADIENT UNDER THE BRIDGE. THE MAXIMUM CALCULATED FLOOD ELEVATION = 208.8± AND IS LOCATED ON THE UPSTREAM SIDE OF THE BRIDGE.

WETLANDS DELINEATED BY WETLAND FLAGS DO NOT EXTEND UNDER THE PROPOSED BRIDGE. THE WETLANDS TERMINATE TO THE WEST OF THE PROPOSED BRIDGE AND RESUME AGAIN TO THE EAST OF THE BRIDGE.

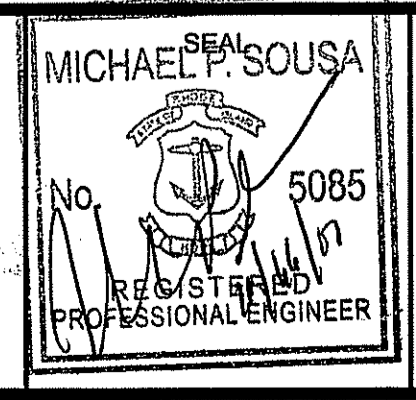


NOTE:
CONTRACTOR IS TO VERIFY LOCATION AND ELEVATIONS OF STREAM CENTERLINE PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OR ANY VARIATIONS.



No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



SCALE:	HOR.: AS NOTED
	VERT.:
DATUM:	HOR.:
	VERT.:
GRAPHIC SCALE	

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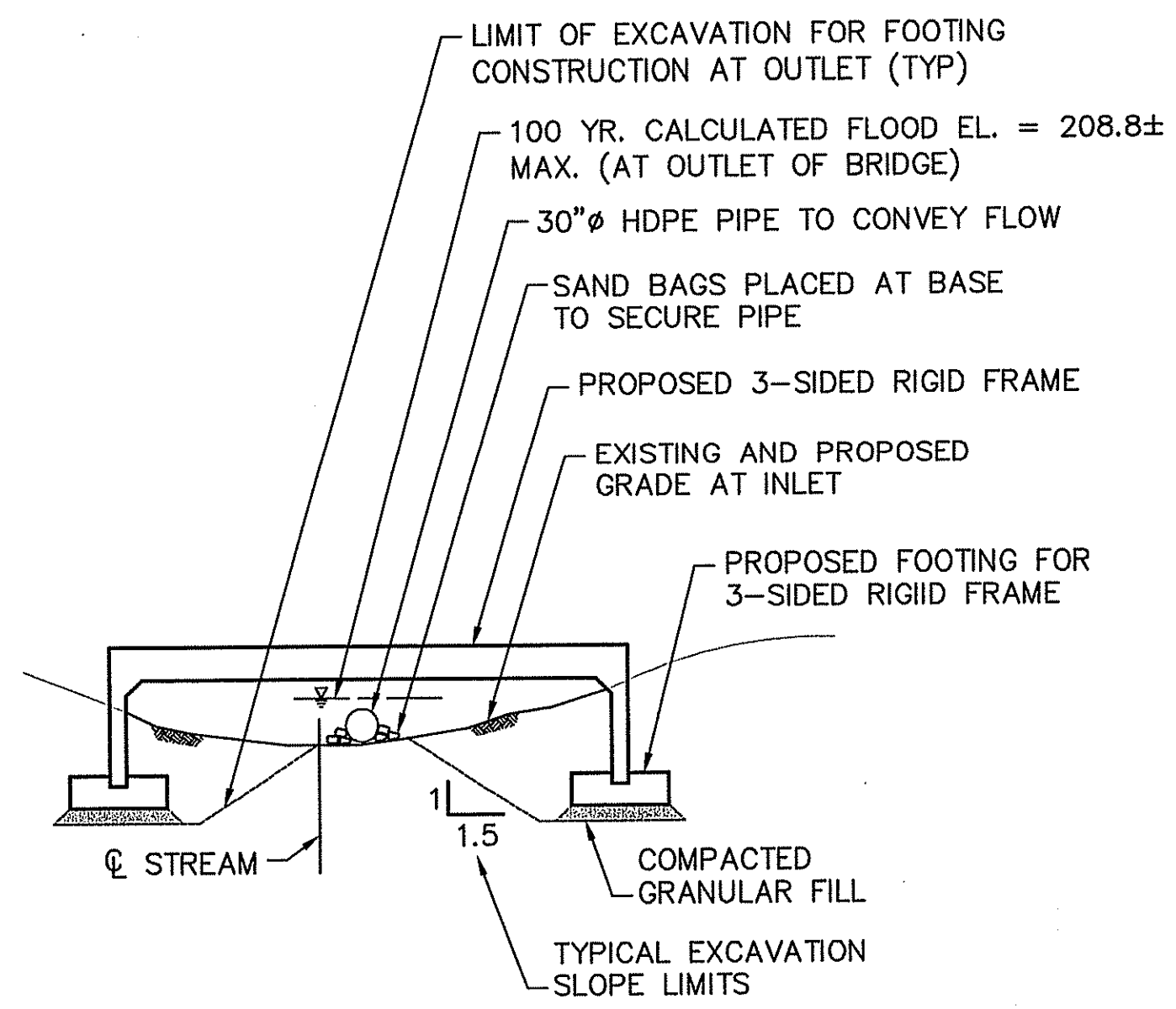
275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
BRIDGE SECTION & DETAIL SHEET No. 1
ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

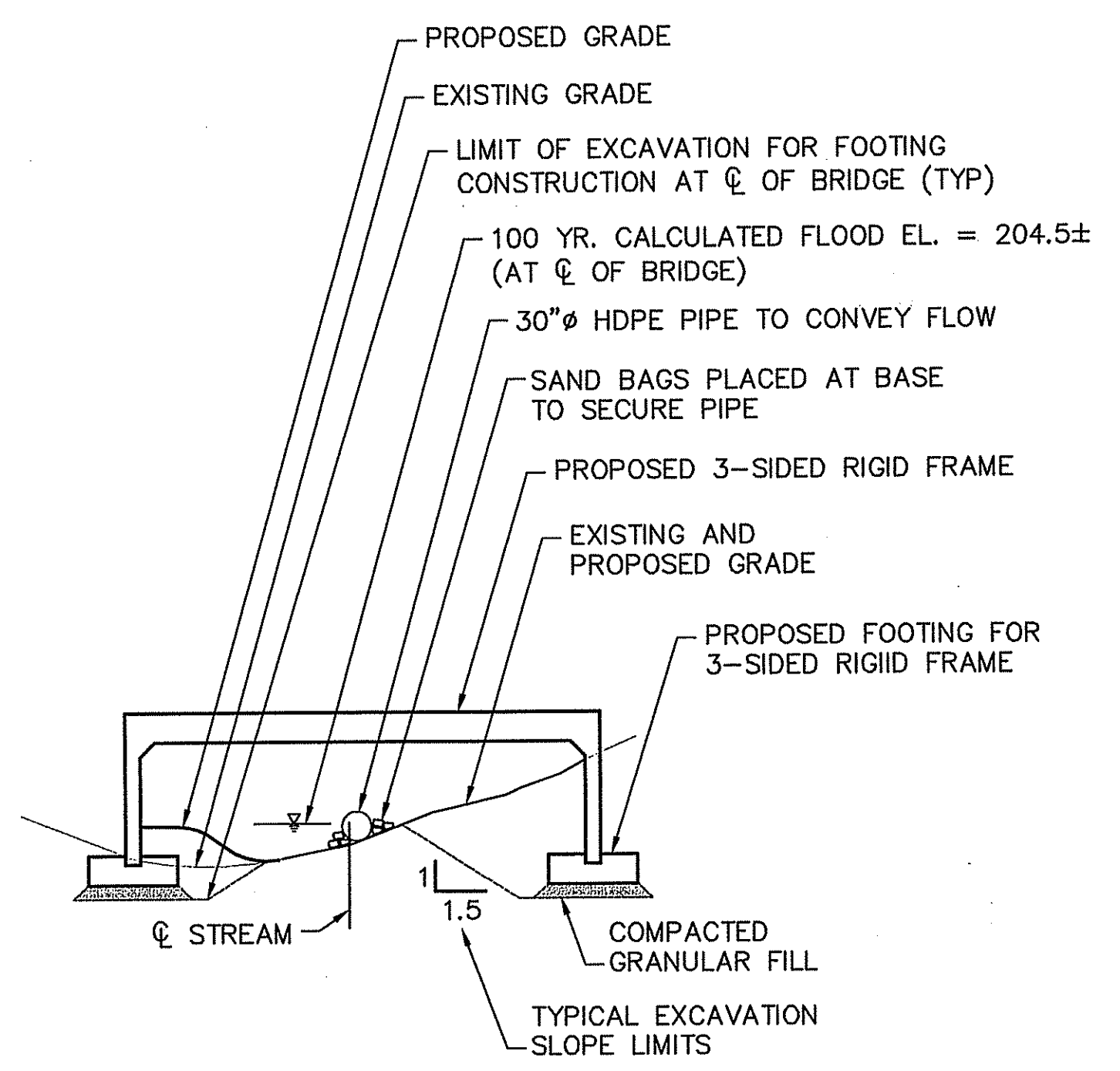
PROJ. No.: 20050997.A10
DATE: APRIL 2007

C9.01
22 OF 30

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EXCAVATION LIMITS AT INLET
SCALE: 1" = 10'



EXCAVATION LIMITS AT CENTERLINE OF BRIDGE
SCALE: 1" = 10'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB - 4 2008 FILE # 07-016
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Walker

NOV 19 2007

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL

SCALE:	HORIZ.: AS NOTED
	VERT.:
DATUM:	HORIZ.:
	VERT.:
GRAPHIC SCALE	

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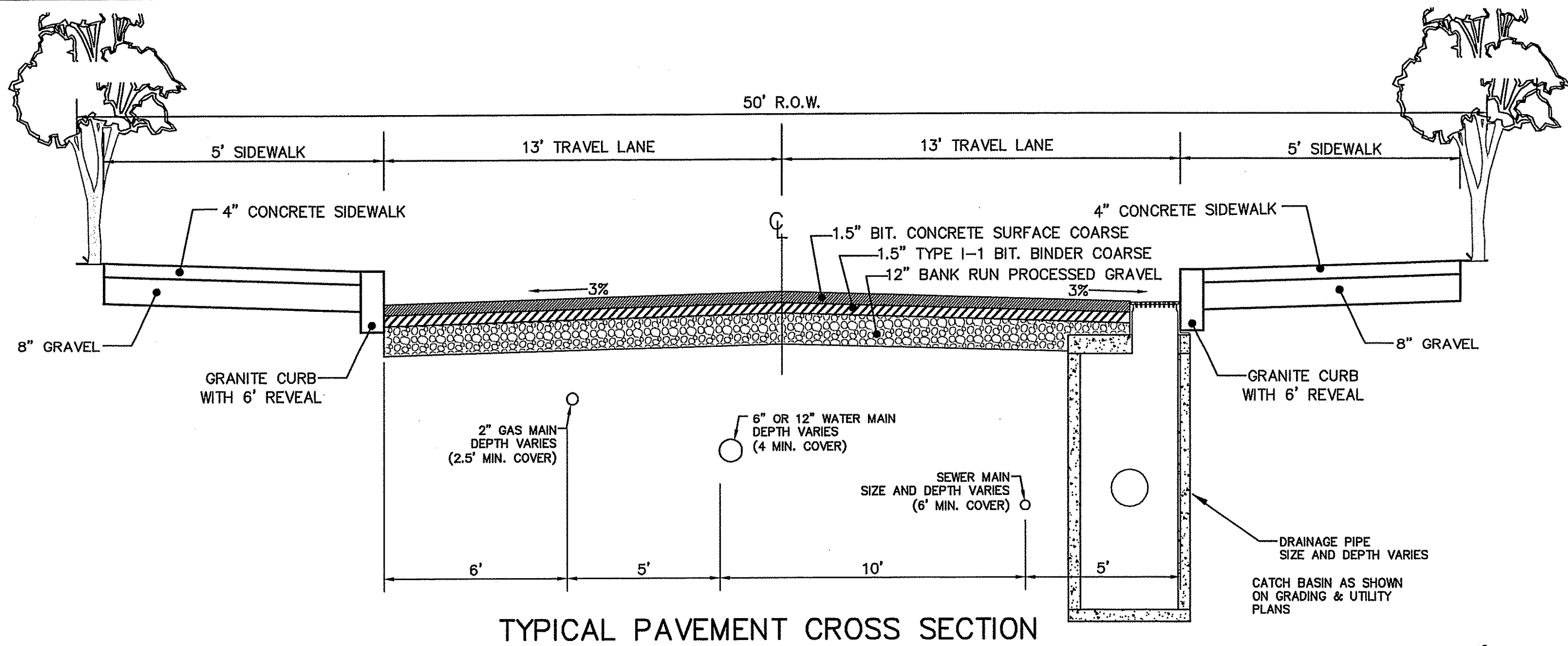
FUSS & O'NEILL
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275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

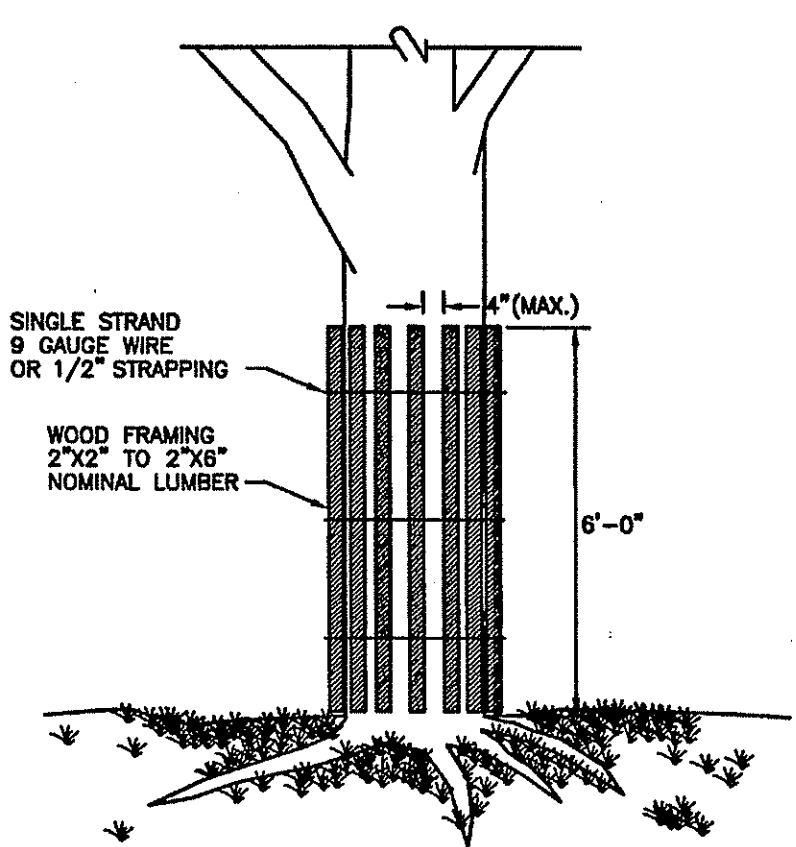
GOLD RUSH ESTATES
BRIDGE SECTION & DETAIL SHEET No. 3
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997.A10
 DATE: APRIL 2007
C9.03
24 OF 30

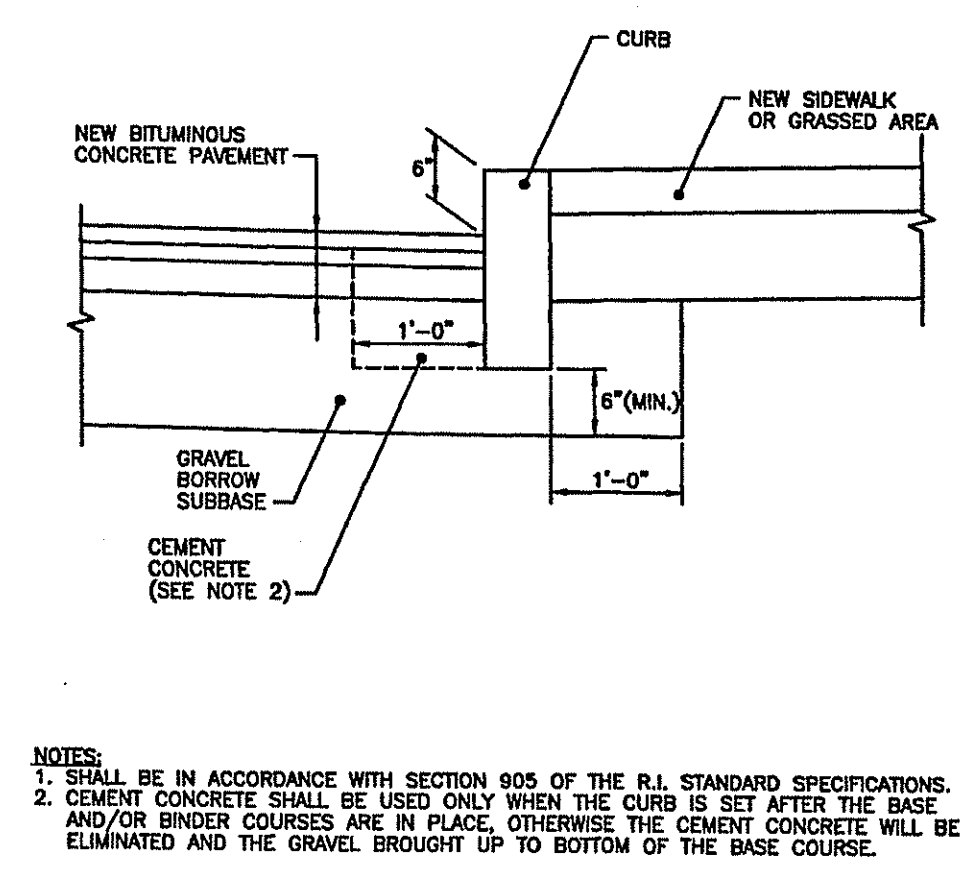
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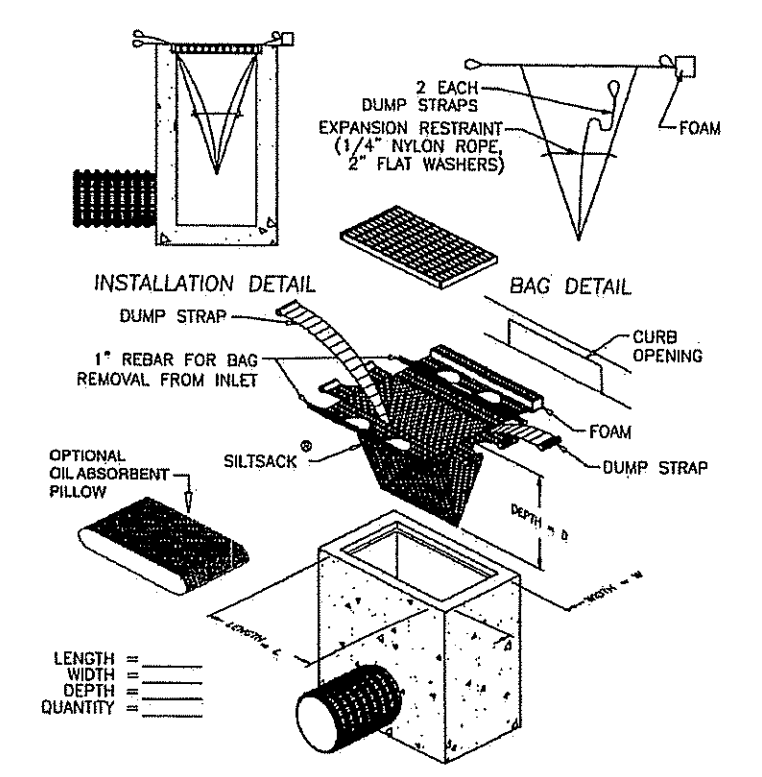
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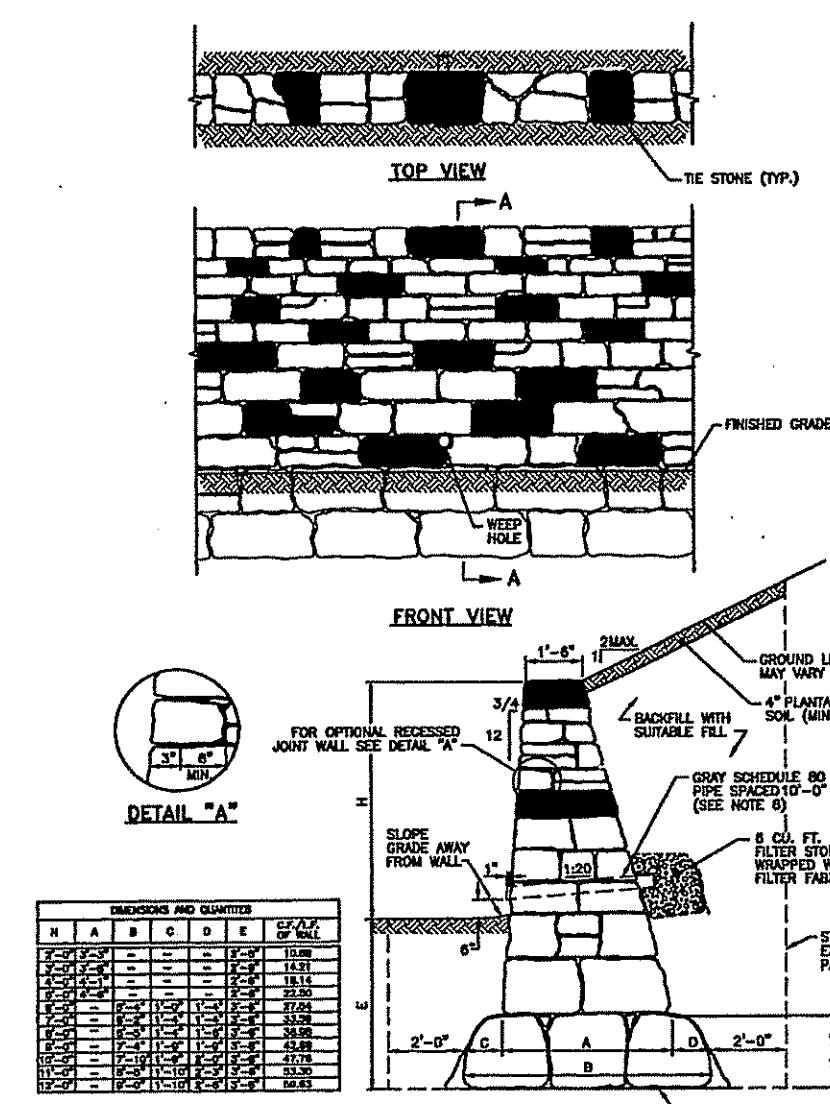
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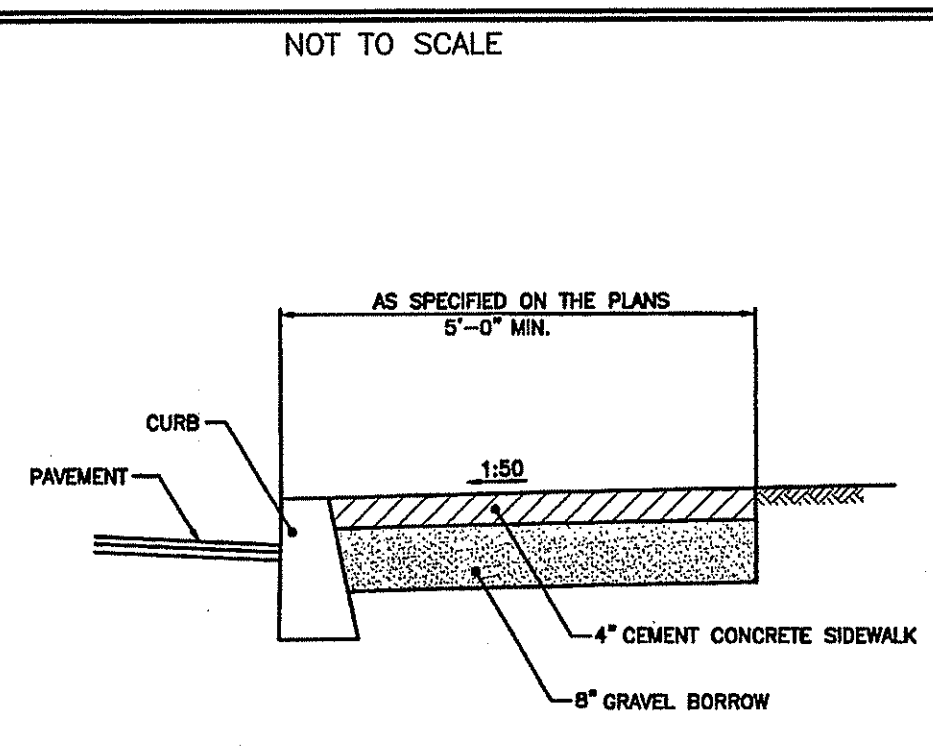
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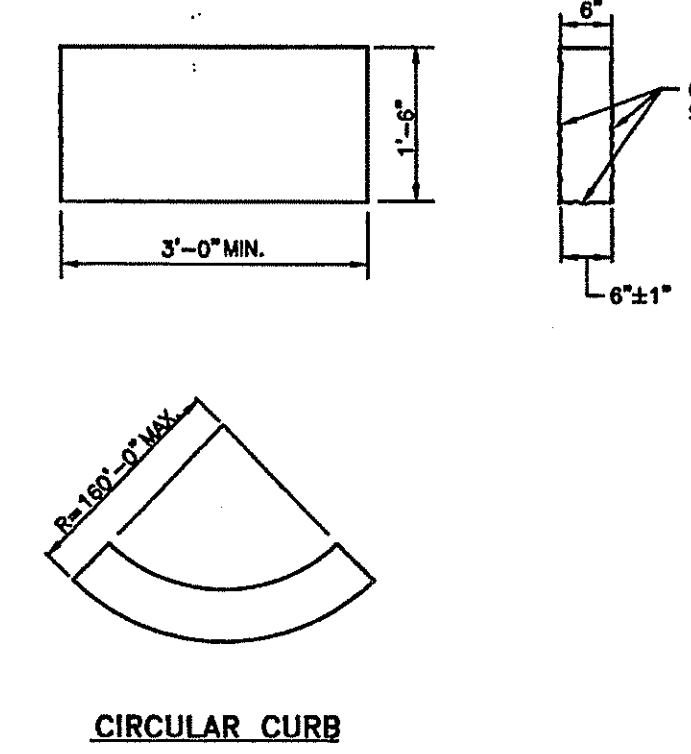
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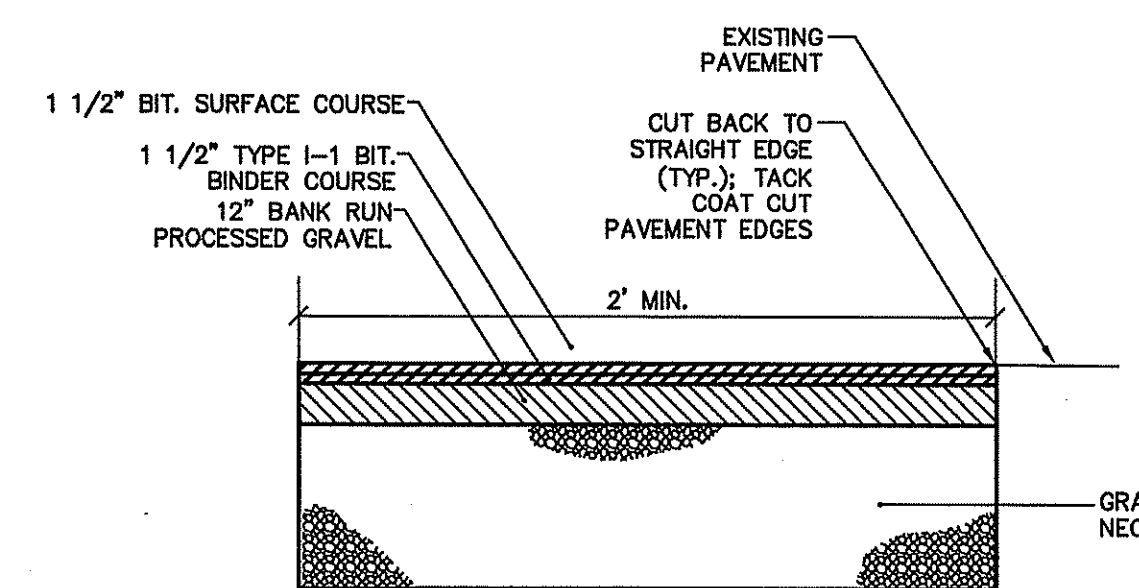
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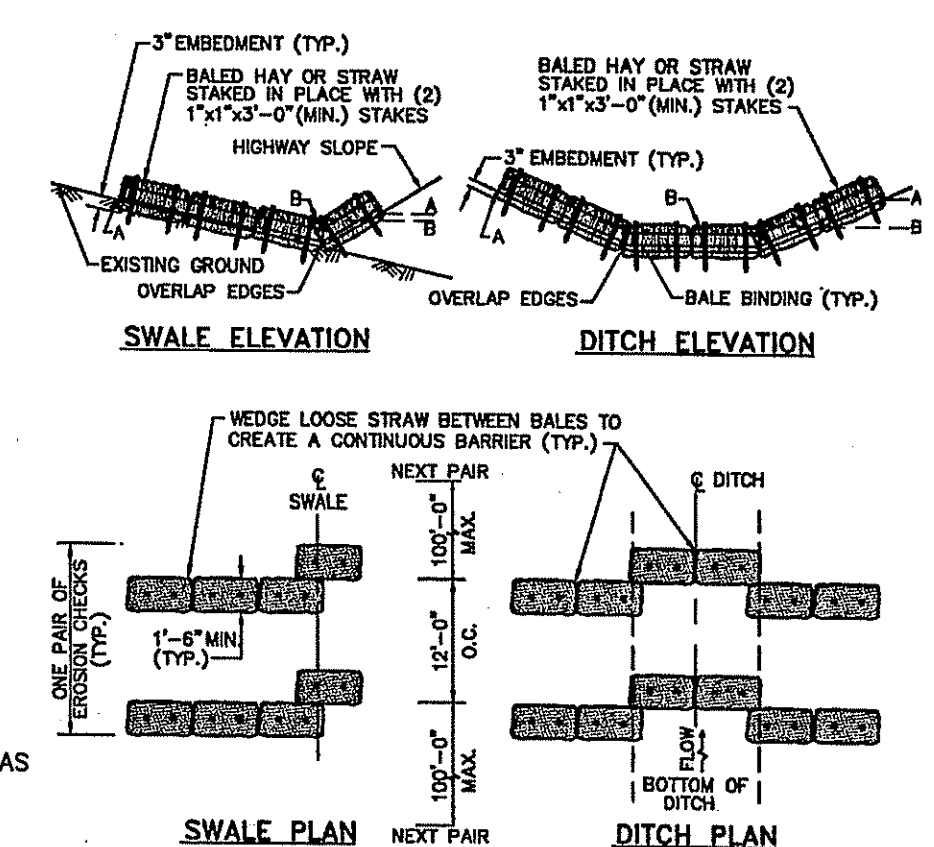
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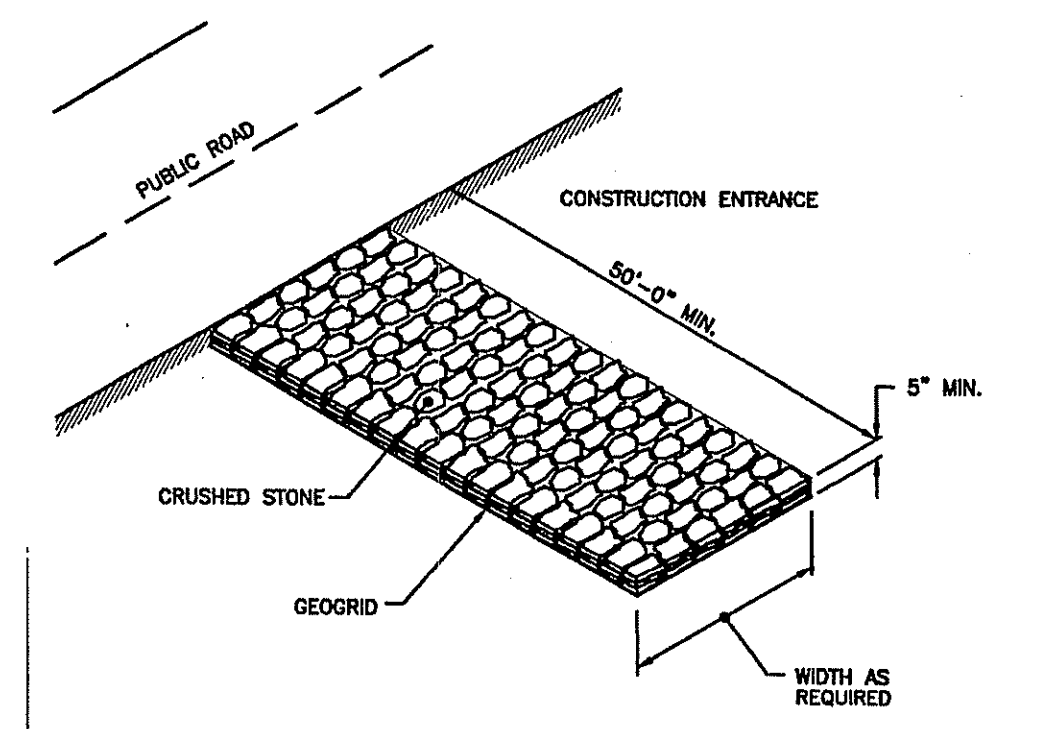
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R.I. STD. 7.3.0
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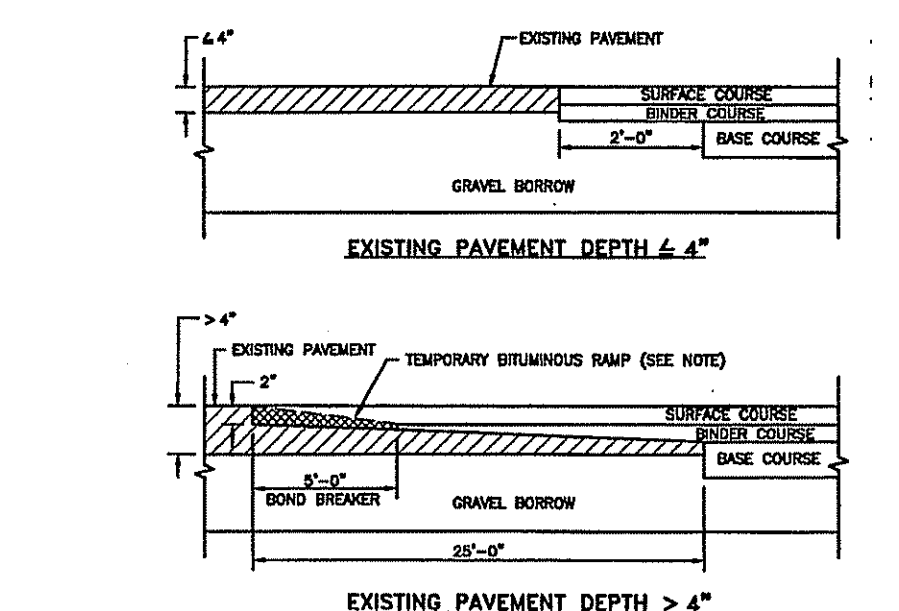
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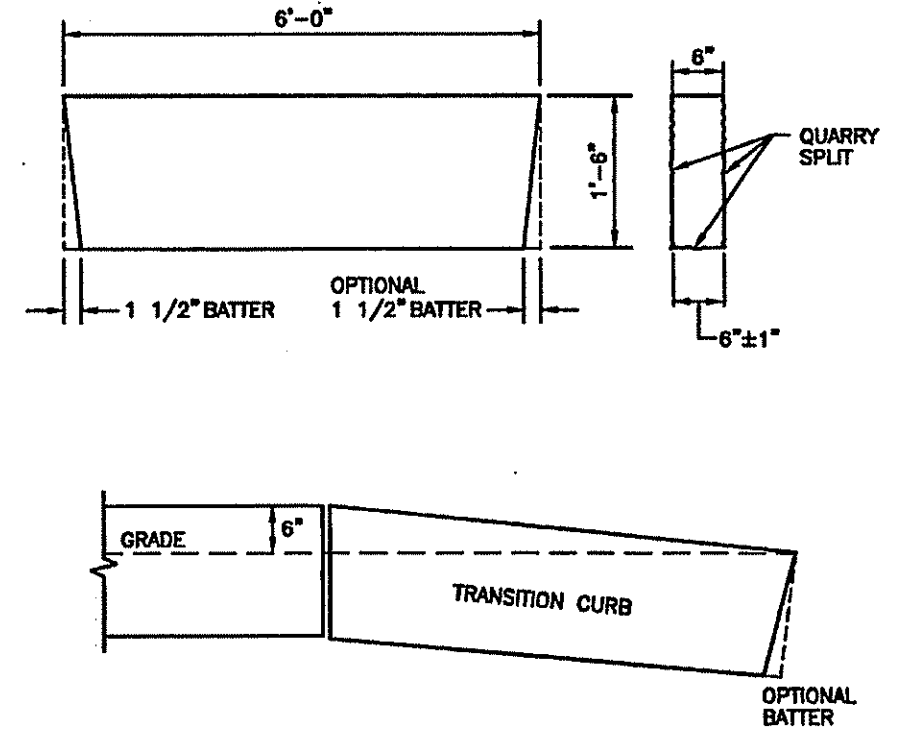
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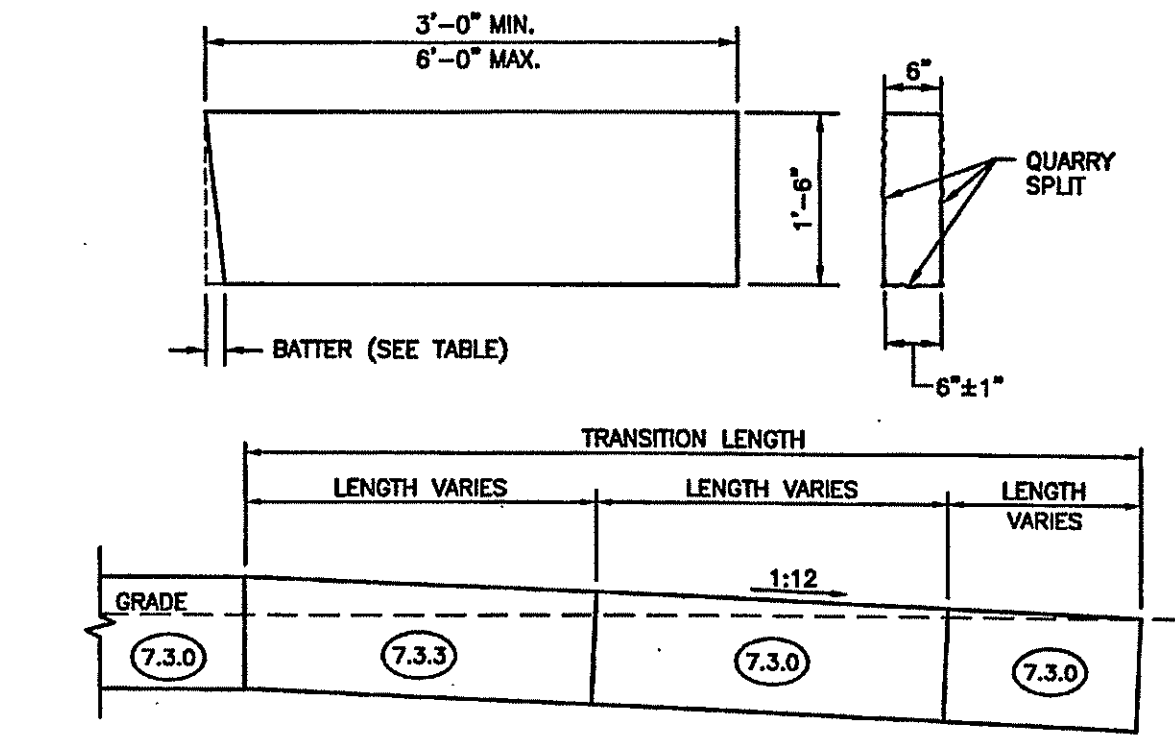
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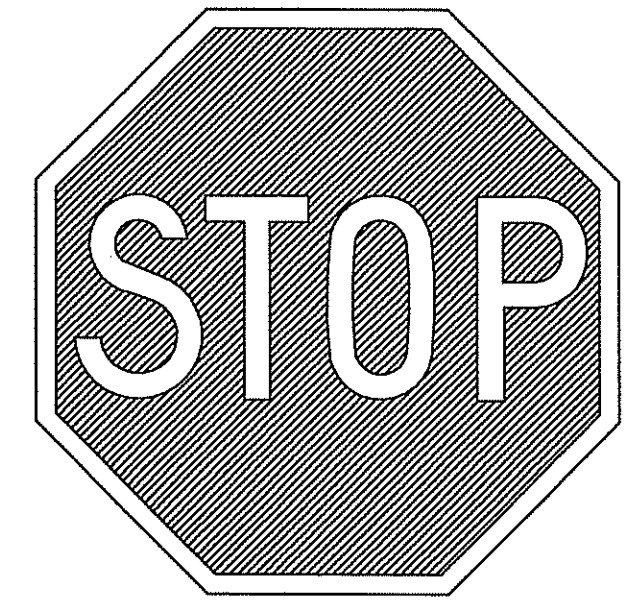
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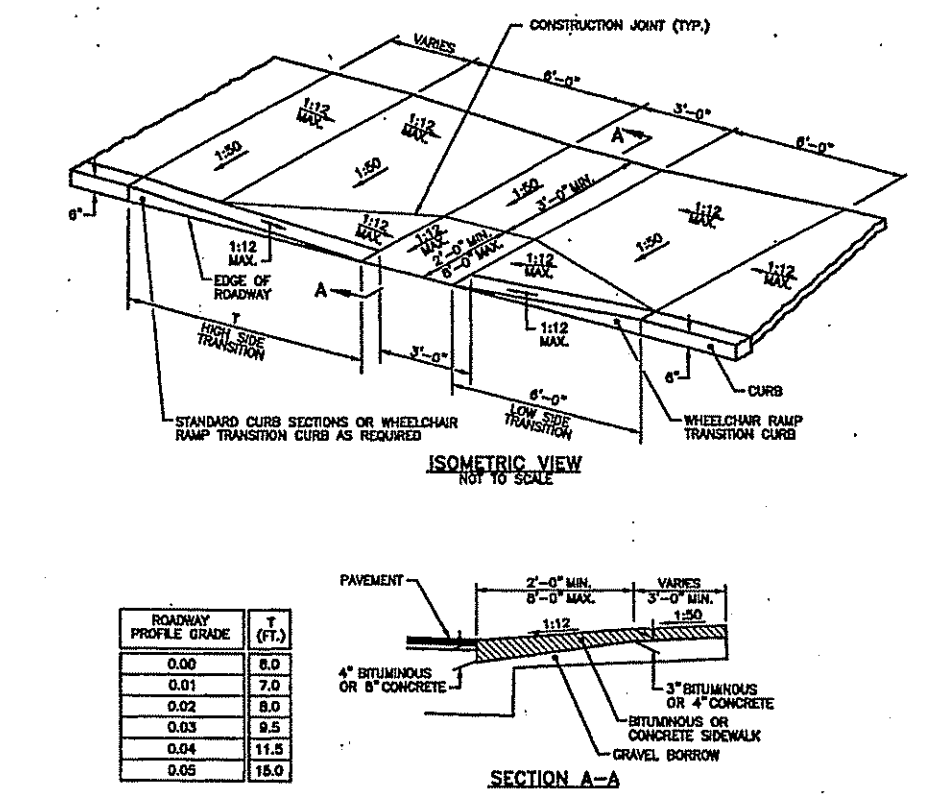
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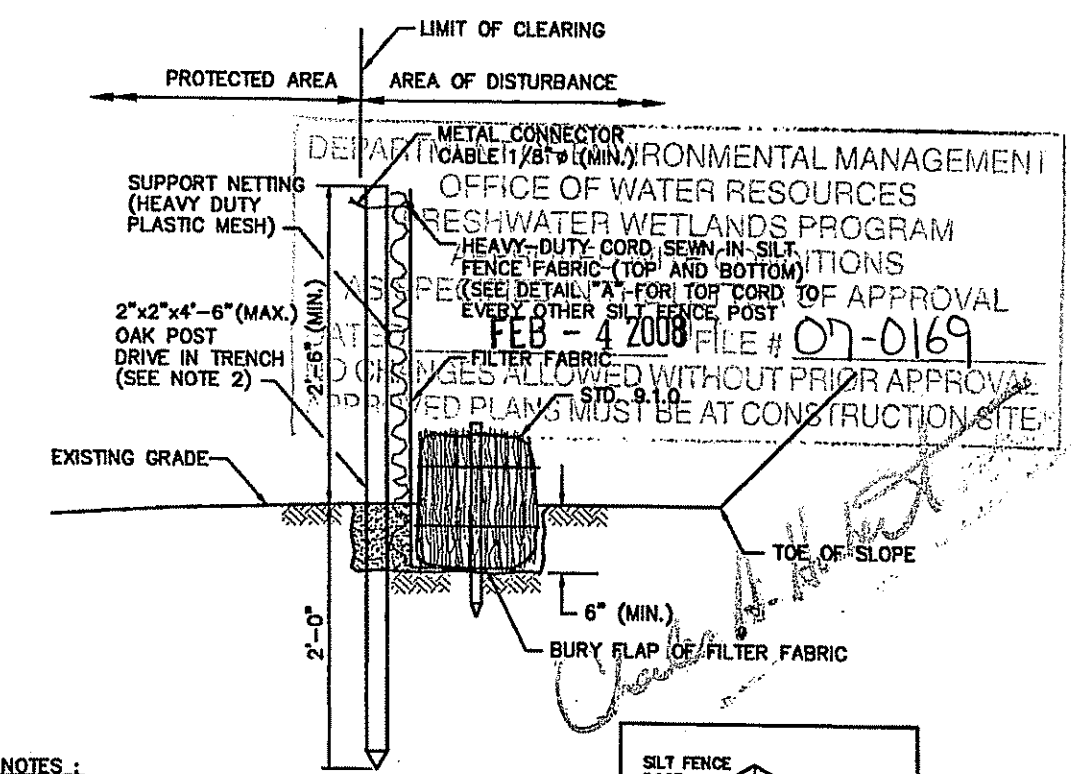
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R.I. STD. 7.3.4
NOT TO SCALE



R1-1 (24\"/>



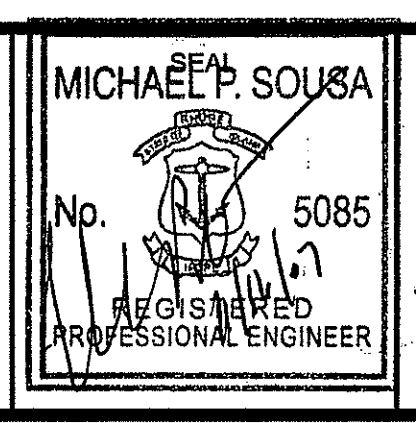
WHEELCHAIR RAMP
R.I. STD. 43.3.0
NOT TO SCALE



BALED HAY EROSION CHECK AND SILT FENCE COMBINED
R.I. STD. 9.3.0
NOT TO SCALE

No.	DATE	DESCRIPTION	BY
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1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



SCALE:	HORIZ: AS NOTED
	VERT: AS NOTED
DATUM:	HORIZ: AS NOTED
	VERT: AS NOTED
GRAPHIC SCALE	

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GOLD RUSH ESTATES
DETAIL SHEET No. 1
ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

PROJ. No.: 2005097_A10
DATE: APRIL 2007
C10.01
25 OF 30

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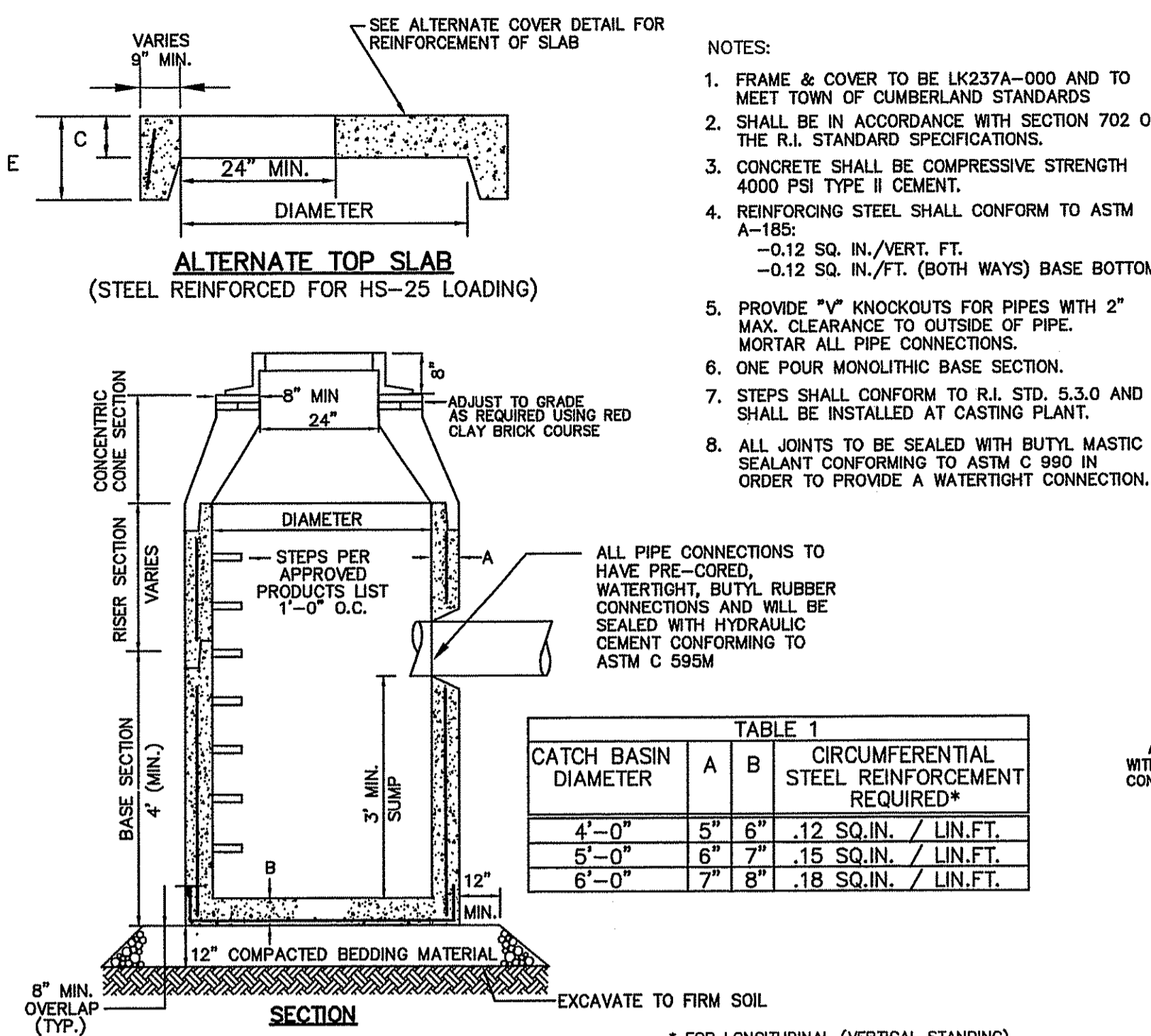
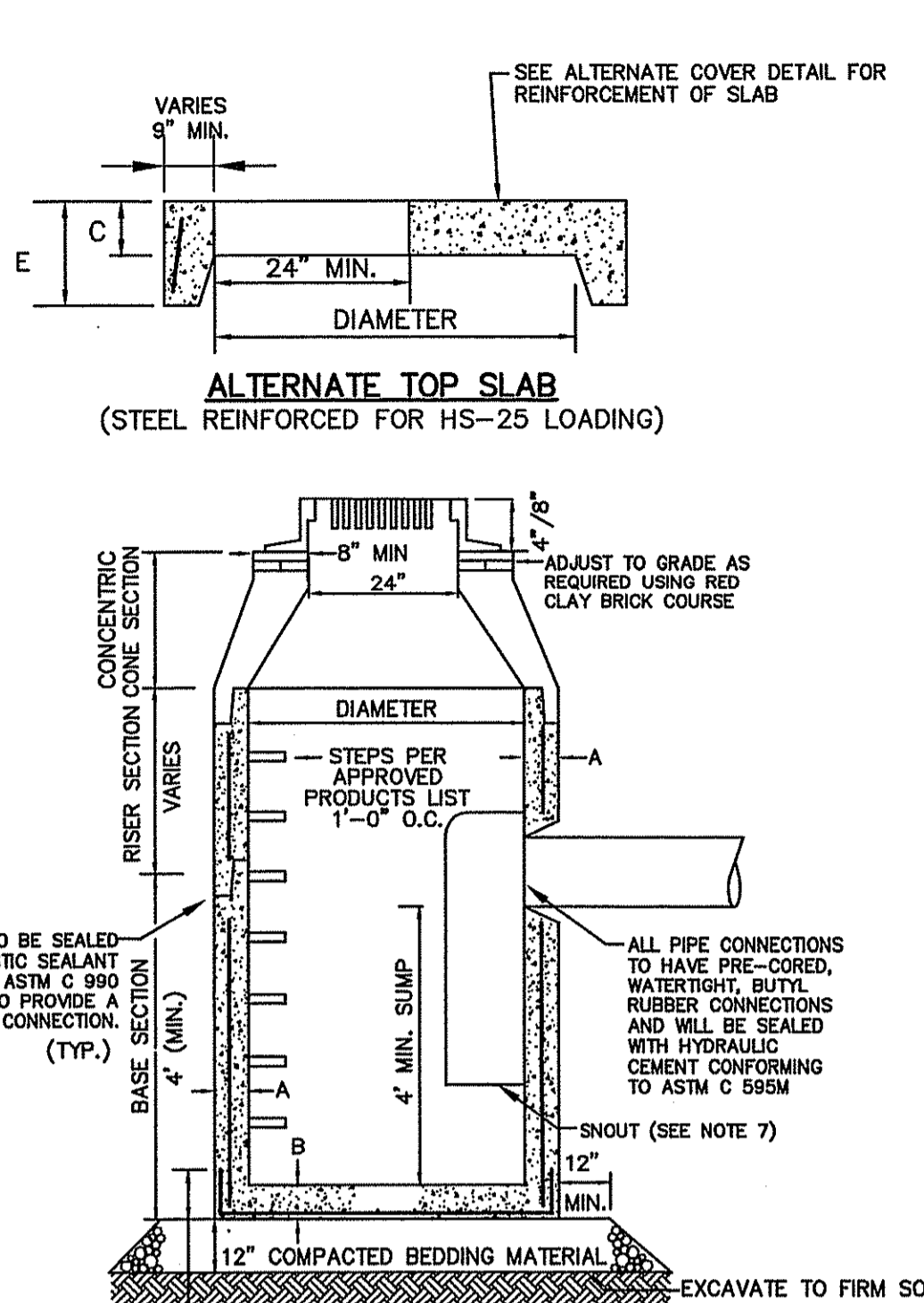


TABLE 1

CATCH BASIN DIAMETER	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	.12 SQ.IN. / LIN.FT.
5'-0"	6"	7"	.15 SQ.IN. / LIN.FT.
6'-0"	7"	8"	.18 SQ.IN. / LIN.FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



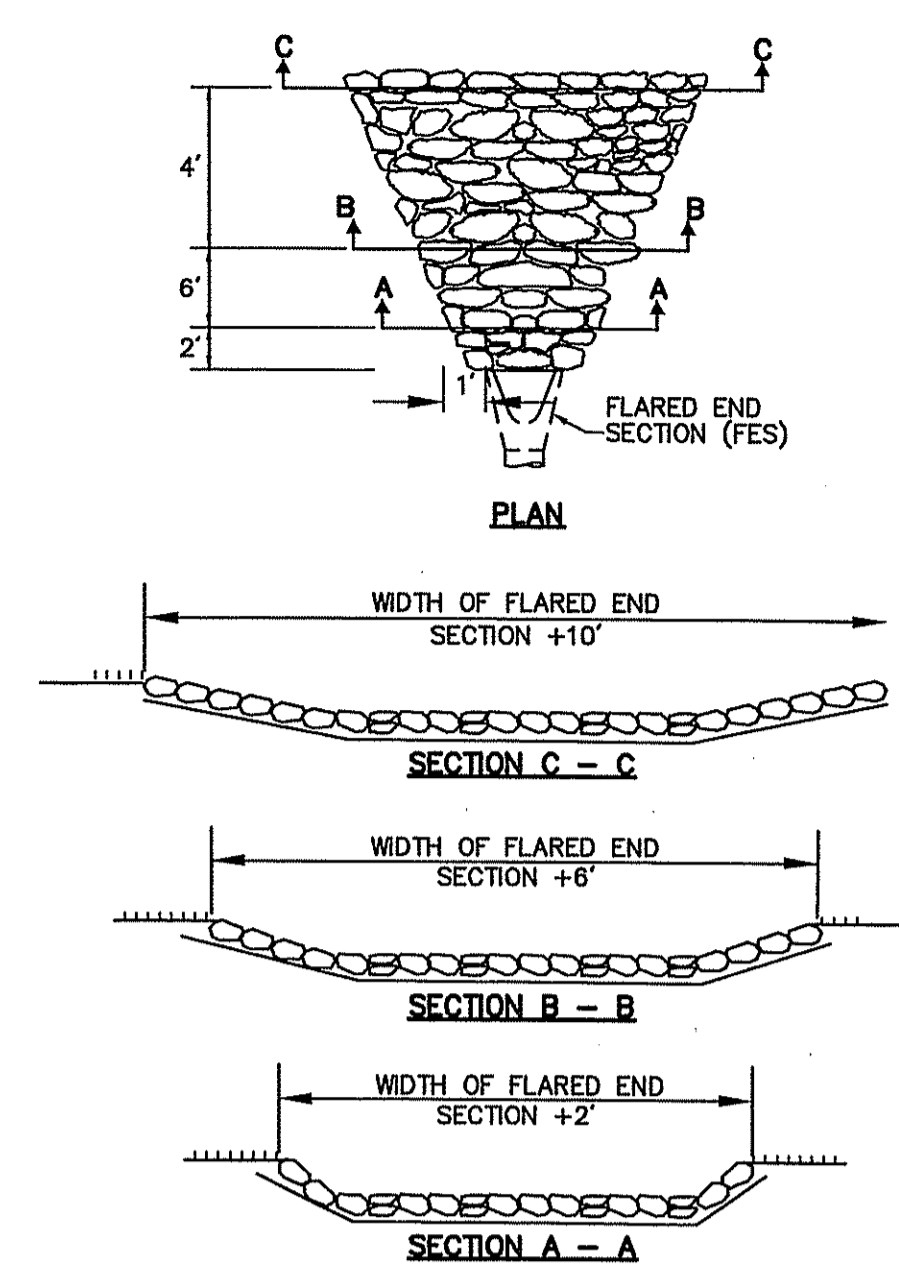
- NOTES:**
- FRAME AND GRATES TO BE AS FOLLOWS:
CB1-20, CB3-11, CB4-5 TO CB4-8, CB4-10 TO CB4-12: LeBARON LK125-3 AND GRATE TO BE LeBARON L245G18 OR APPROVED EQUAL.
ALL OTHER CATCH BASINS TO BE LeBARON LK120D-300.
FRAME GRATES SHALL MEET TOWN OF CUMBERLAND STANDARDS.
 - BASE SECTION SHALL BE MONOLITHIC
 - ALL SECTIONS SHALL BE DESIGNED FOR HS-25 LOADING.
 - CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
 - FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR HS25 LOADING.
 - PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.

TABLE

CATCH BASIN DIAMETER	A	B	C	E	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	10"	12.5"	.12 SQ.IN. / LIN.FT.
5'-0"	6"	7"	10"	13"	.15 SQ.IN. / LIN.FT.
6'-0"	7"	8"	10"	13.5"	.18 SQ.IN. / LIN.FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

- SNOUTS TO ONLY BE INSTALLED IN CATCH BASINS IMMEDIATELY UPSTREAM OF DETENTION BASINS (DCB 1-20, DCB2-8, DCB3-10, DCB3-12, DCB3-20, DCB3-24, DCB4-12) AND ALSO DCB5-1, DCB5-2, DCB5-3, AND DCB5-4.



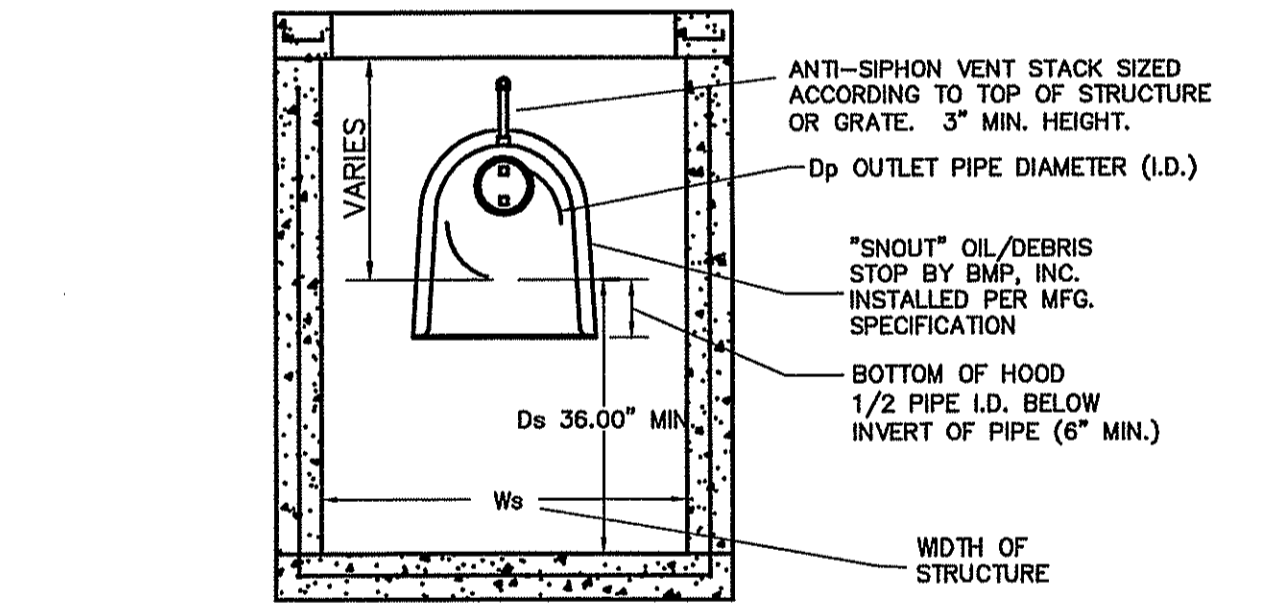
- NOTES:**
- NATIONAL STONE ASSOCIATION (NSA) NO. "R-6" RIP-RAP, AS SPECIFIED BY RIDOT M.10.03.2, TO BE USED.
 - 6" NATIONAL STONE ASSOCIATION (NSA) NO. "FS-26" BEDDING, AS SPECIFIED BY RIDOT M.10.03.2, TO BE USED.
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED, RIP-RAP SHALL BE PLACED.

DIMENSIONS

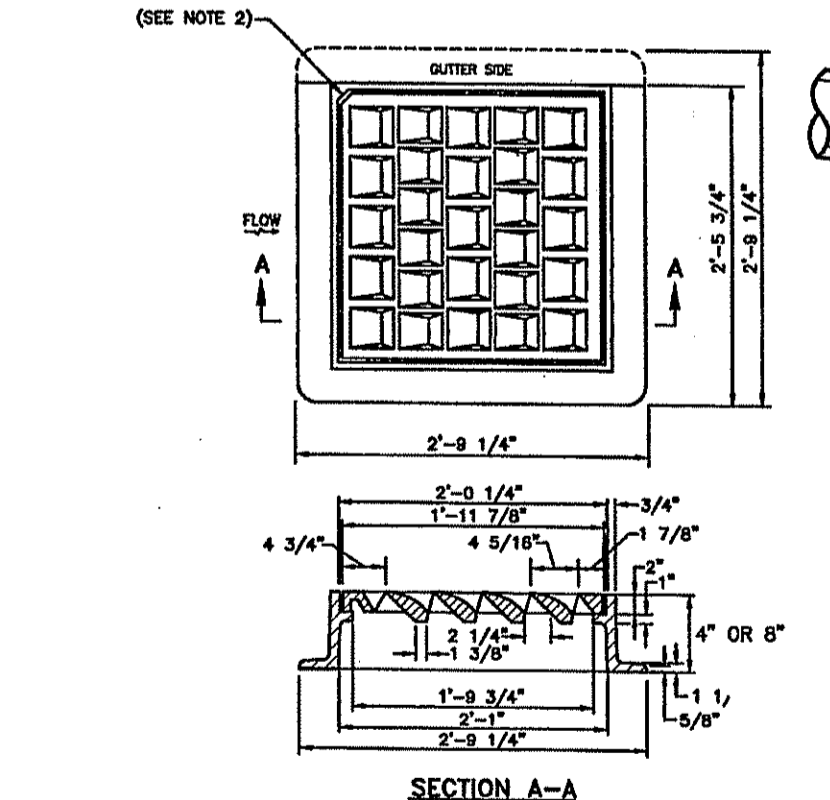
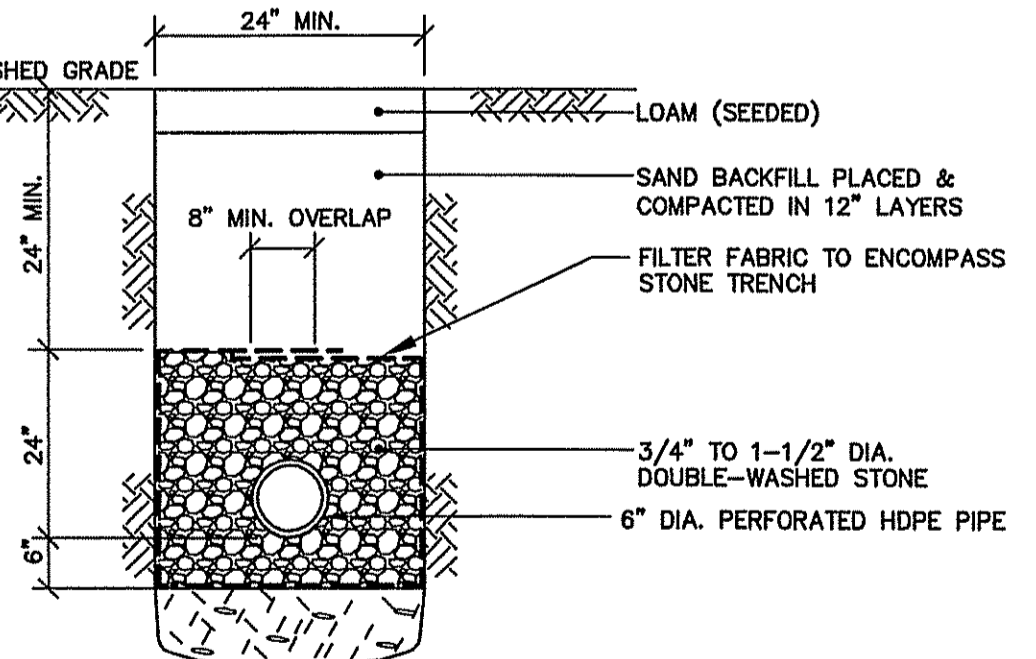
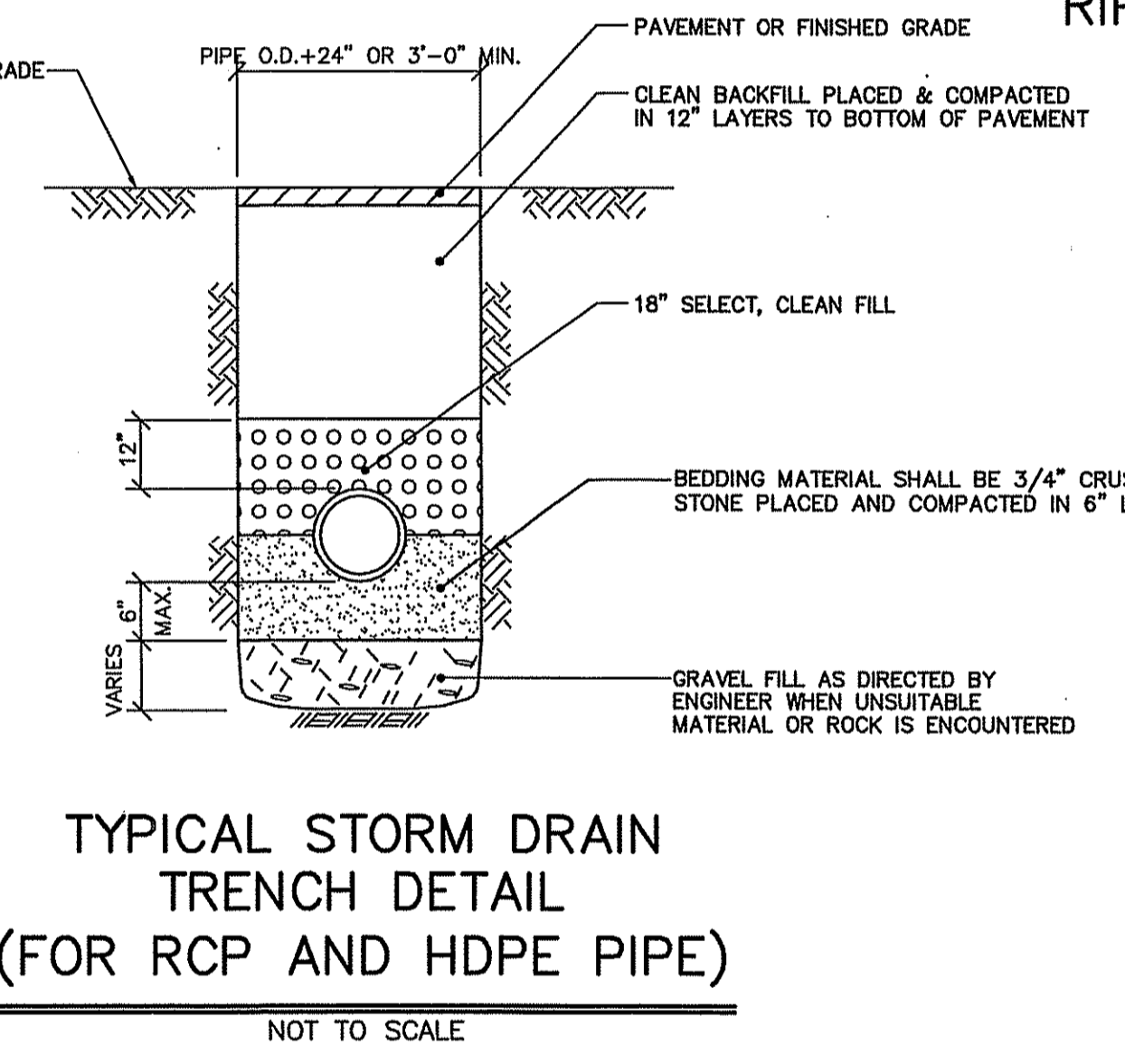
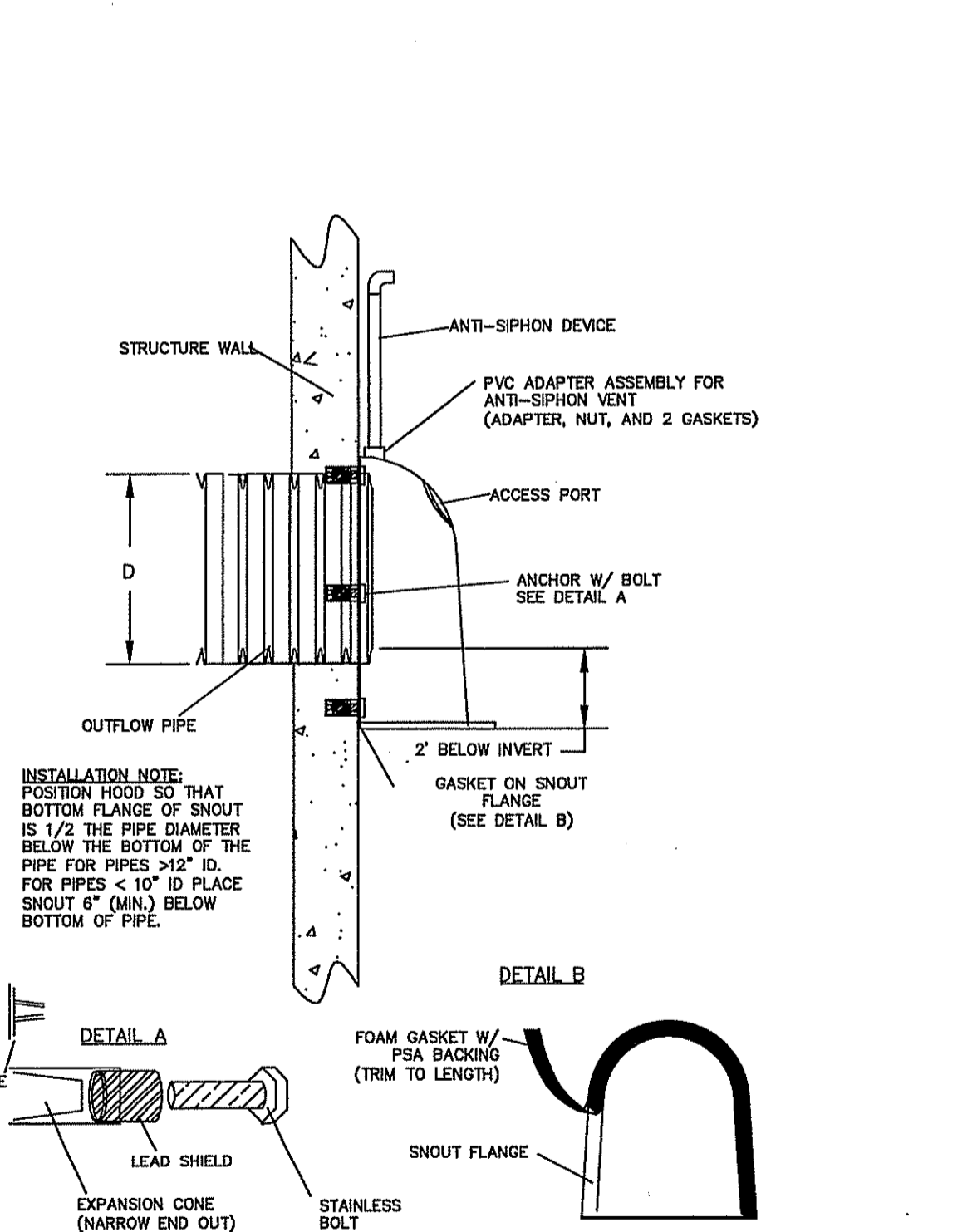
DIAM.	A	B	C	D	E	F	G	H	T	REINFORCEMENT
1'-0"	4"	2'-0"	10'-0"	7/8"	3/4"	2'-0"	6"	3"	2"	0.048
1'-6"	6"	2'-3"	10'-0"	6'-1"	2'-0"	11"	2 1/4"	3"	2"	0.054
1'-6"	6"	2'-3"	10'-0"	6'-1"	2'-0"	11"	2 1/4"	3"	2"	0.050
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.092
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.084
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.068
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.108
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.100
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.132
2'-0"	8 1/2"	3'-0"	11'-0"	6'-1"	2'-0"	11'-0"	3 1/2"	3 1/2"	2"	0.144

NOTE: SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

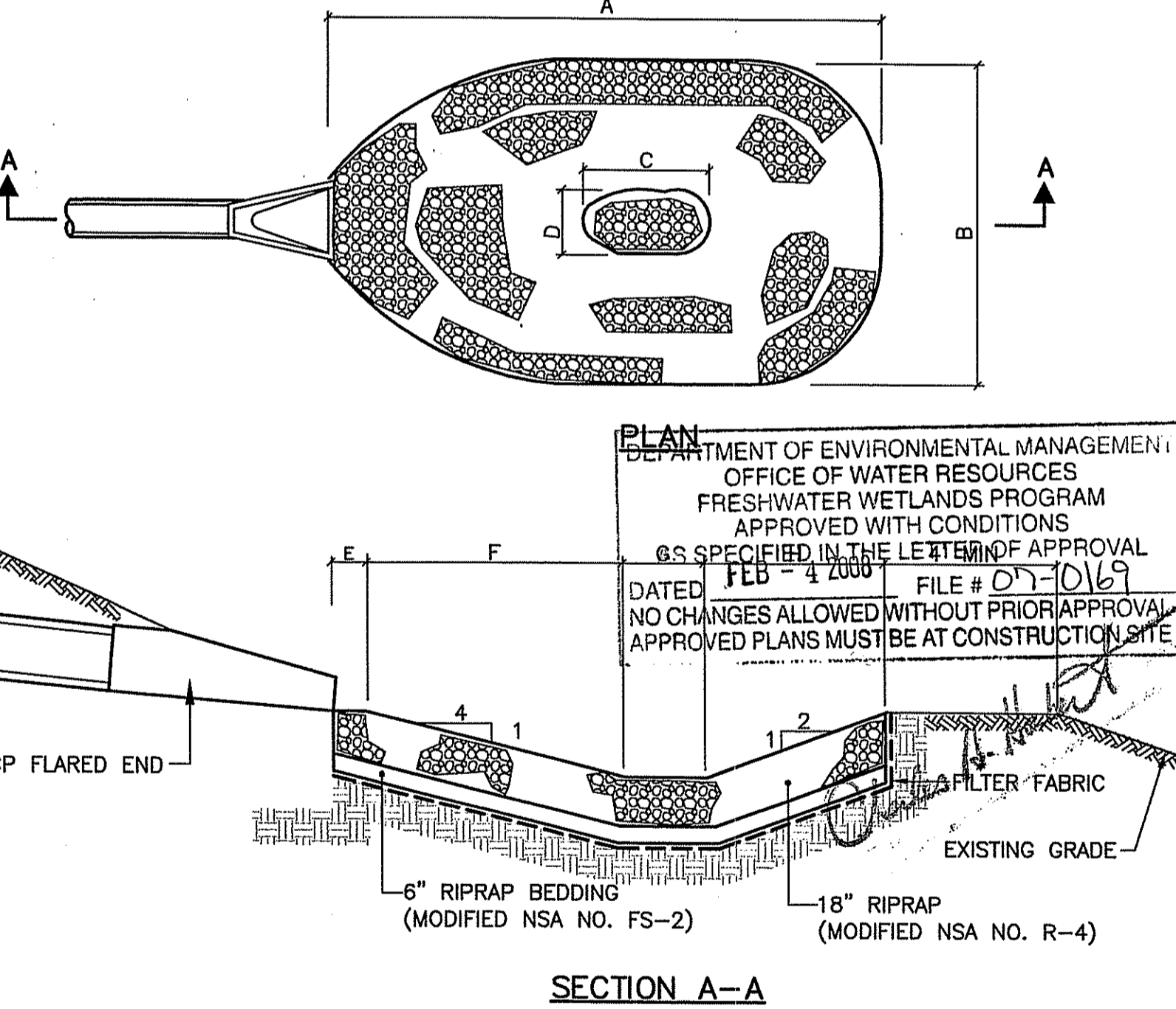
PRECAST CONCRETE FLARED END SECTION
R.I. STD. 2.3.0.
NOT TO SCALE



- RULE #1:** AT AN ABSOLUTE MINIMUM, STRUCTURE INTERNAL DIMENSIONS MUST BE AT LEAST LARGE ENOUGH TO ACCOMMODATE EXTERNAL DIMENSIONS OF THE SNOUT, AND ALLOW FOR A PERSON TO INSTALL IT. REFER TO BMP, INC. CAD DETAILS FOR PART DIMENSIONS.
- RULE #2:** USE ONLY "F" SERIES SNOUTS FOR RECTANGULAR OR SQUARE STRUCTURES. AVAILABLE IN 12", 18", 24", 30", 48", AND 96" SIZES. USE ONLY "R" SERIES SNOUTS FOR ROUND STRUCTURES. AVAILABLE IN 12", 18", 24", AND 30" SIZES.
- SUMP DEPTH (Ds):** SUMP DEPTH SHOULD BE A MINIMUM OF 36" FOR ANY NEW CONSTRUCTION FOR PIPES 12" AND LESS. FOR 15"-18" PIPE MIN. DEPTH SHOULD BE 48". OPTIMAL SIZING IS AT LEAST 2.5X TO 3X OUTLET PIPE DIAMETER (Dp) FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY.
- STRUCTURE DIMENSIONS:** PLAN DIMENSIONS FOR A STRUCTURE SHOULD BE APPROX. 7X AREA OF OUTLET PIPE FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY. (SEE MAINTENANCE FREQUENCY CALCULATION SHEET FOR MORE INFORMATION)
- IMPORTANT NOTICE:** DO NOT CONFUSE PIPE O.D. WITH PIPE I.D. A SNOUT FITS OVER A PIPE, NOT IN IT. THIS SNOUT MUST BE SIZED TO FIT OVER PIPE OPENING IN STRUCTURE. SNOUTS ARE AVAILABLE FOR ROUND STRUCTURES TO ACCOMMODATE PIPES OF 30" O.D. MAX. FOR PIPES 30" O.D. AND ABOVE, USE SQUARE OR RECTANGULAR STRUCTURES.
- SIZING EXAMPLES:**
- | STRUCTURE OUTLET HOLE SIZE | SNOUT SIZE |
|----------------------------|------------|
| 11.9" O.D. OR LESS | 12 F or R |
| 12.0"-17.9" O.D. | 18 F or R |
| 18.0"-23.9" O.D. | 24 F or R |
| 24.0"-29.9" O.D. | 30 F or R |
| 30.0"-47.9" O.D. | 48 F |
| 48.0"-95.9" O.D. | 96 F |
- SNOUTS TO ONLY BE INSTALLED IN CATCH BASINS IMMEDIATELY UPSTREAM OF DETENTION BASINS (DCB 1-20, DCB2-8, DCB3-10, DCB3-12, DCB3-20, DCB3-24, DCB4-12) AND ALSO DCB5-1, DCB5-2, DCB5-3, AND DCB5-4.



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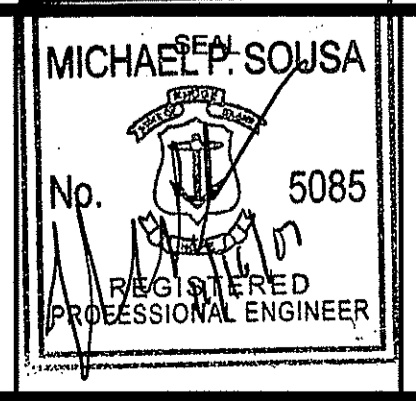
SECTION A-A

PIPE SIZE	A	B	C	D	E	F	G	H
15"	10'	7'	1 1/2'	1'	1'	4 1/2'	1 1/2'	3'
18"	12'	8'	2'	1'	1'	5'	2'	4'
24"	17'	10'	2 1/2'	1 1/2'	1'	8'	2 1/2'	5 1/2'

REVISIONS

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER: SMM
CHIEF DESIGNER: LCB
REVIEWED BY: DATE



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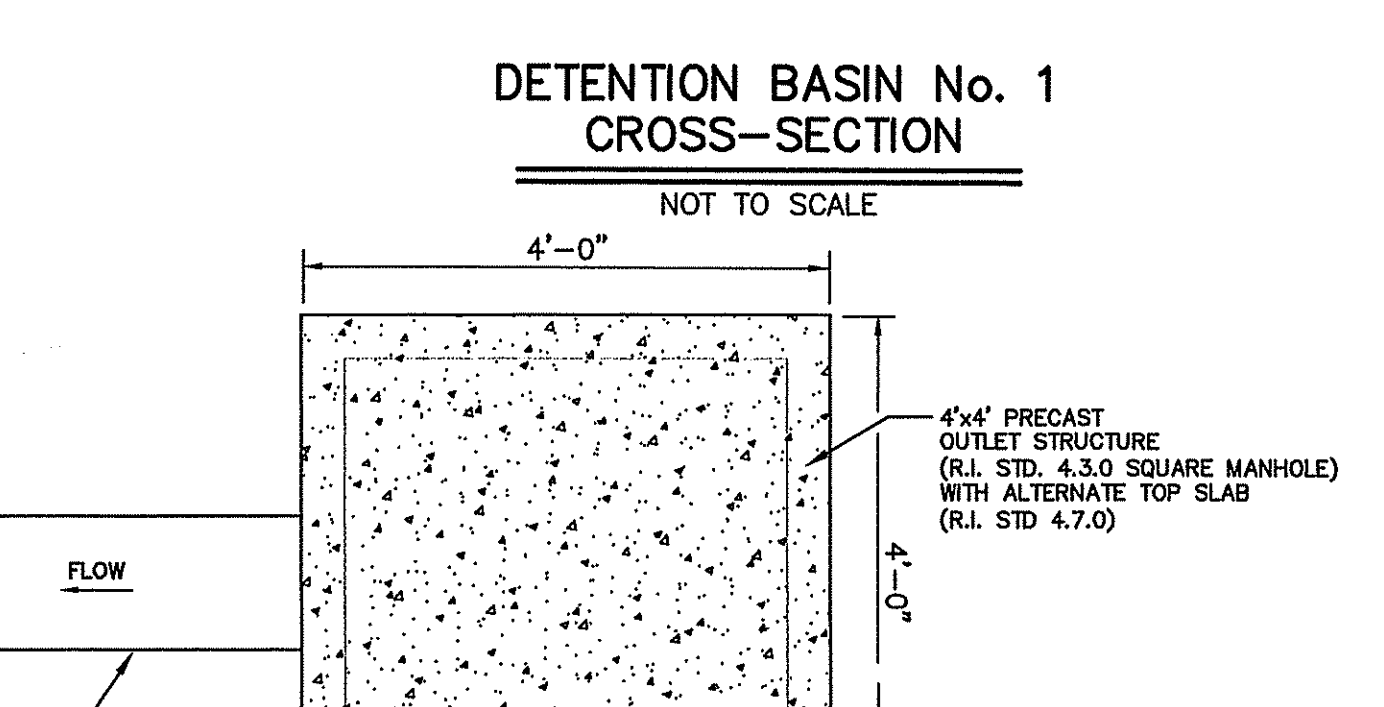
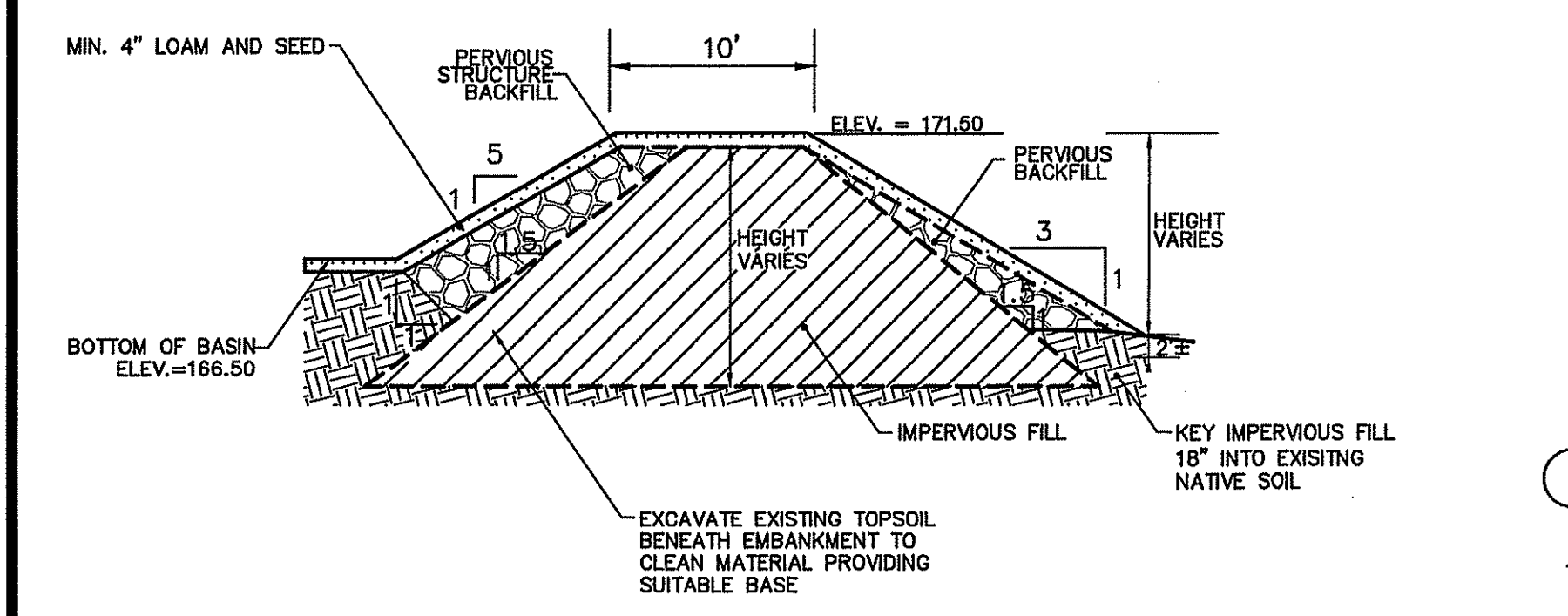
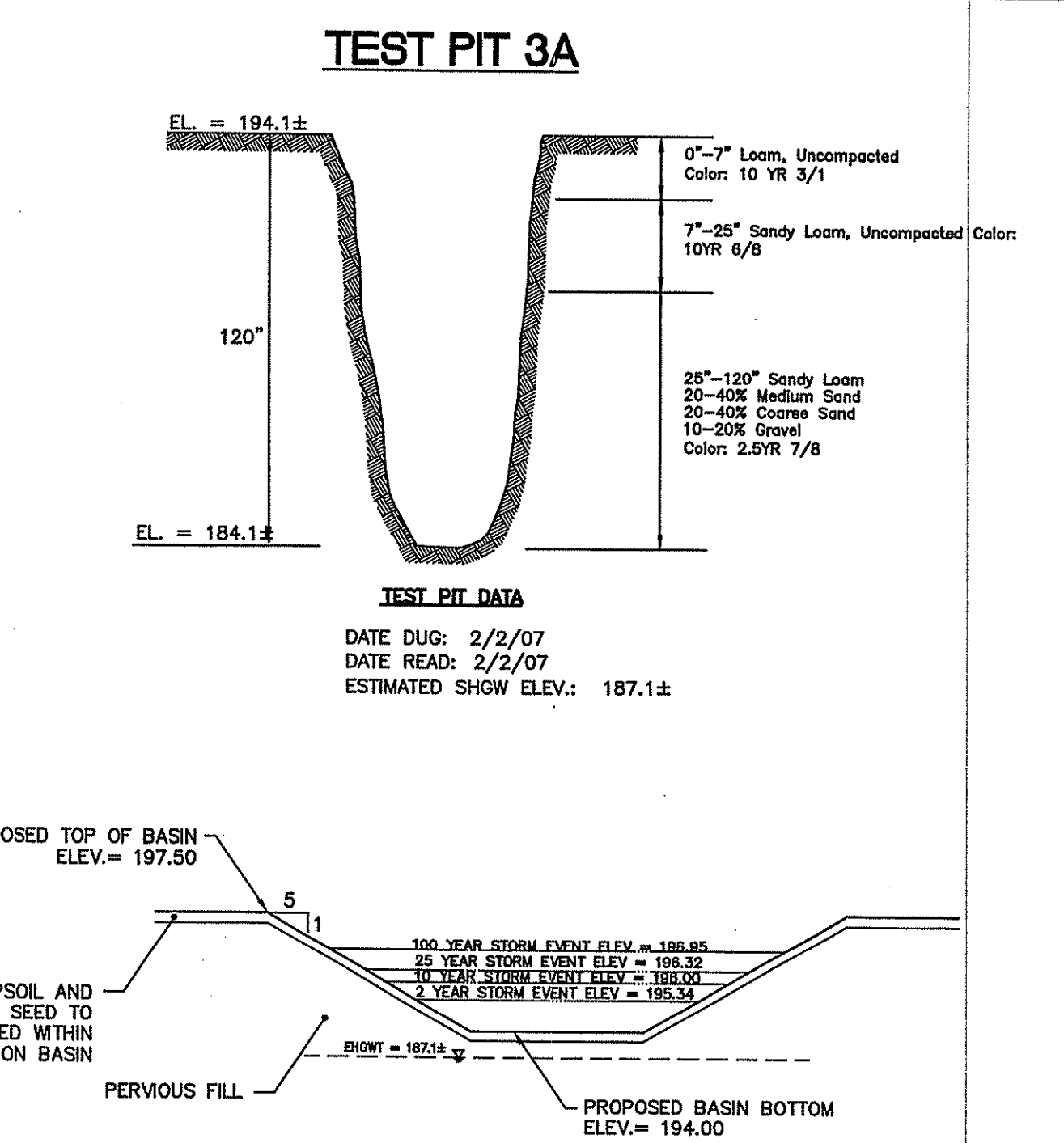
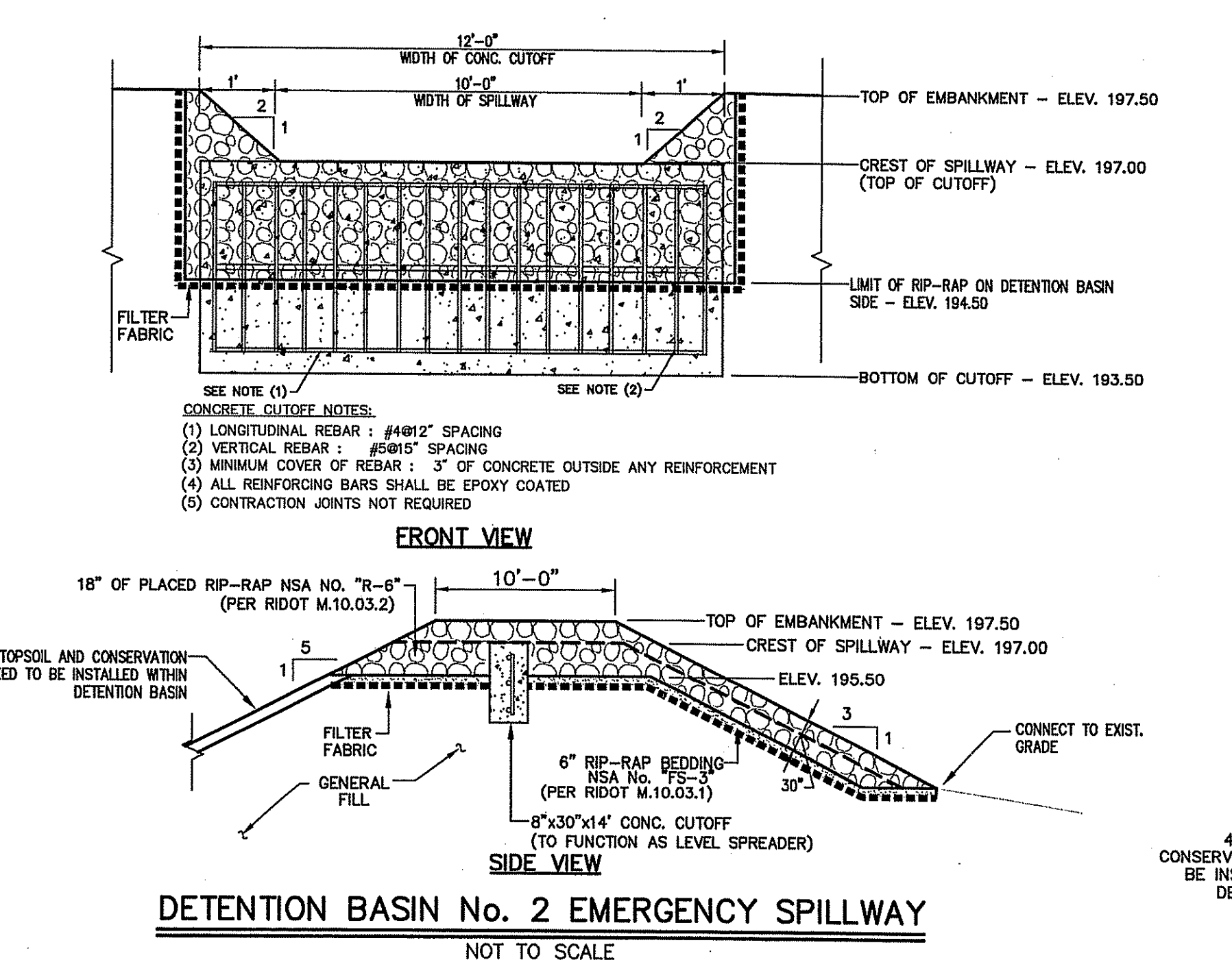
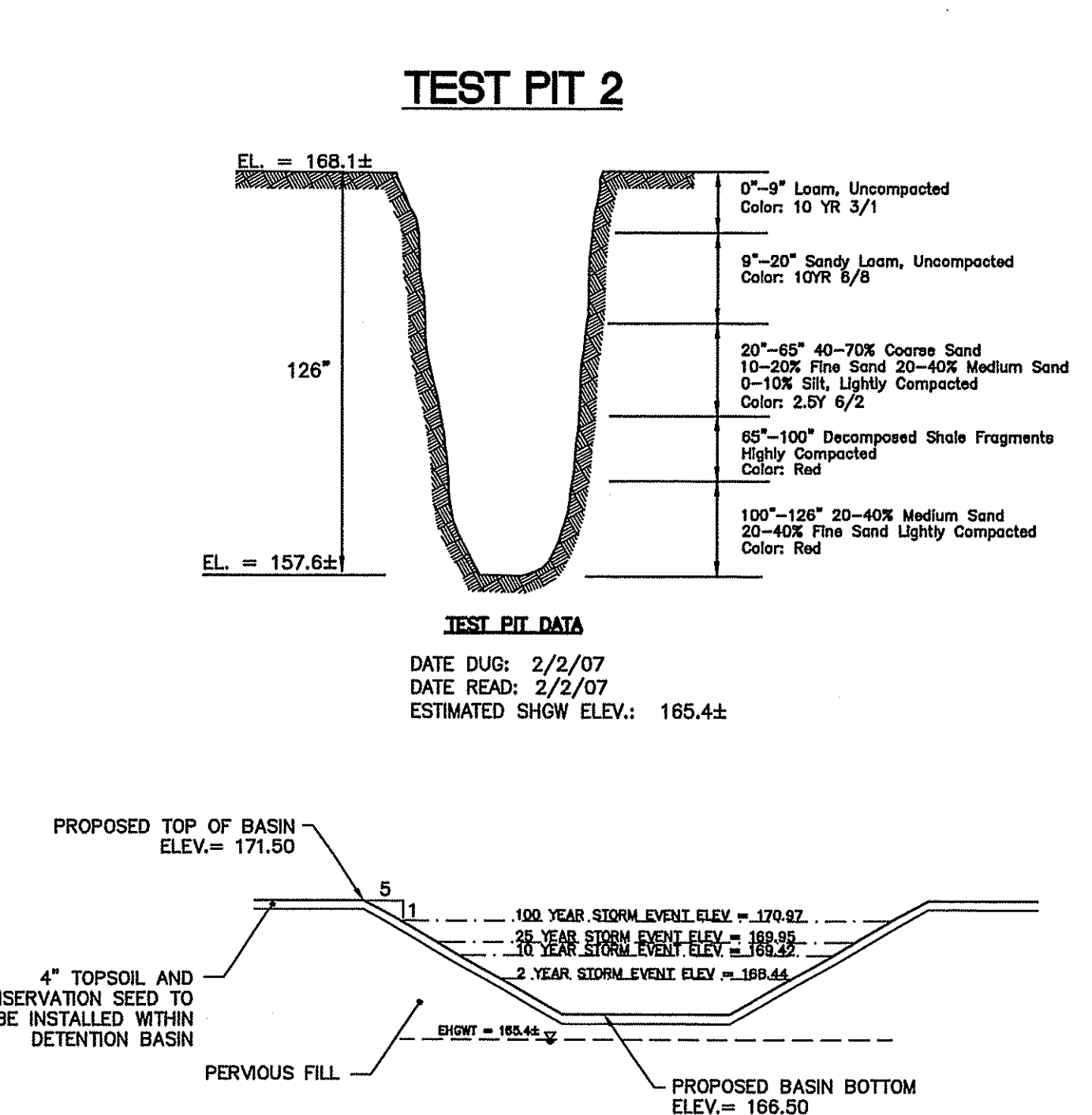
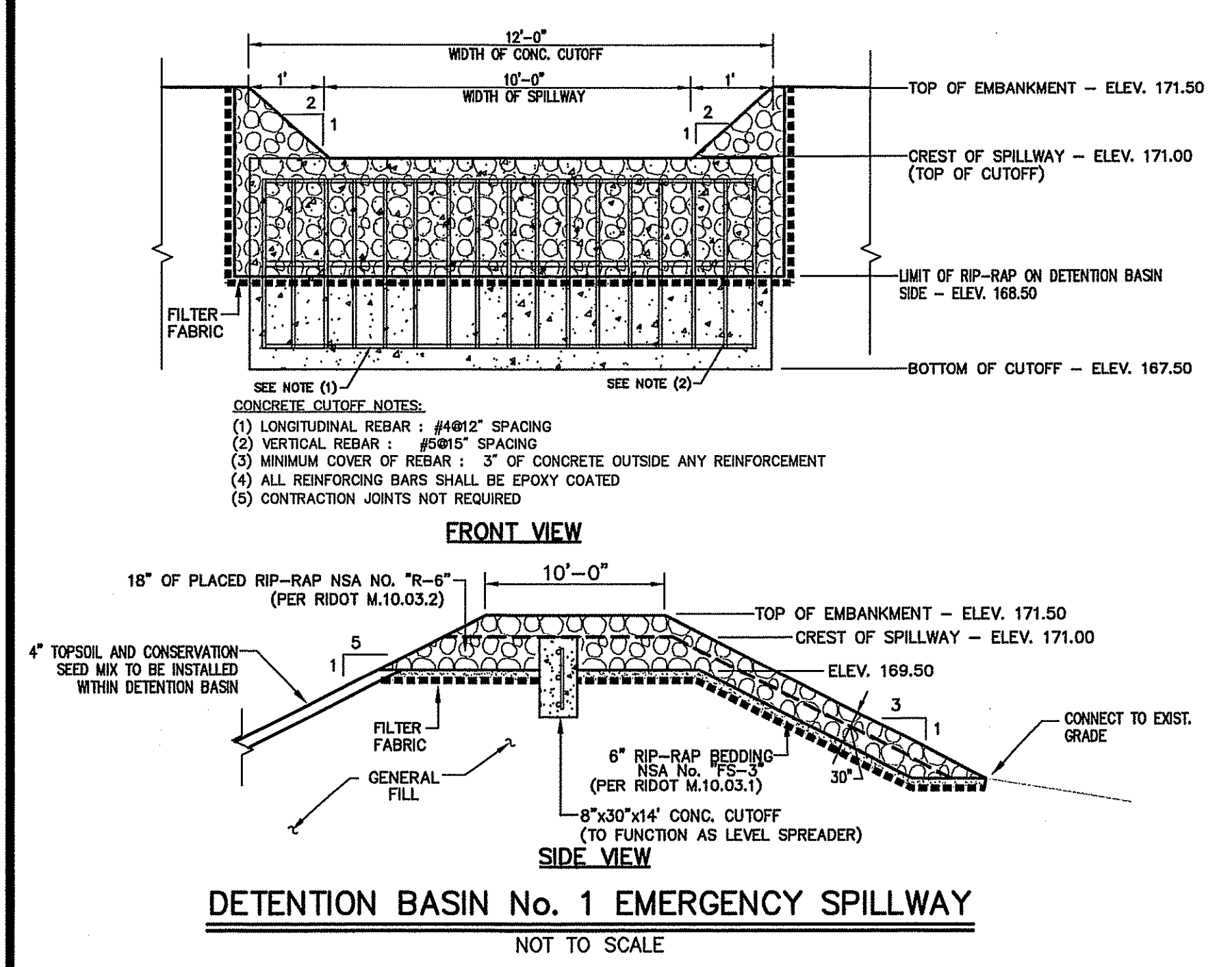
275 PROMENADE ST. SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
 DETAIL SHEET No. 2
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND
 RHODE ISLAND

PROJ. No.: 2005097A10
 DATE: APRIL 2007

C10.02
26 OF 30

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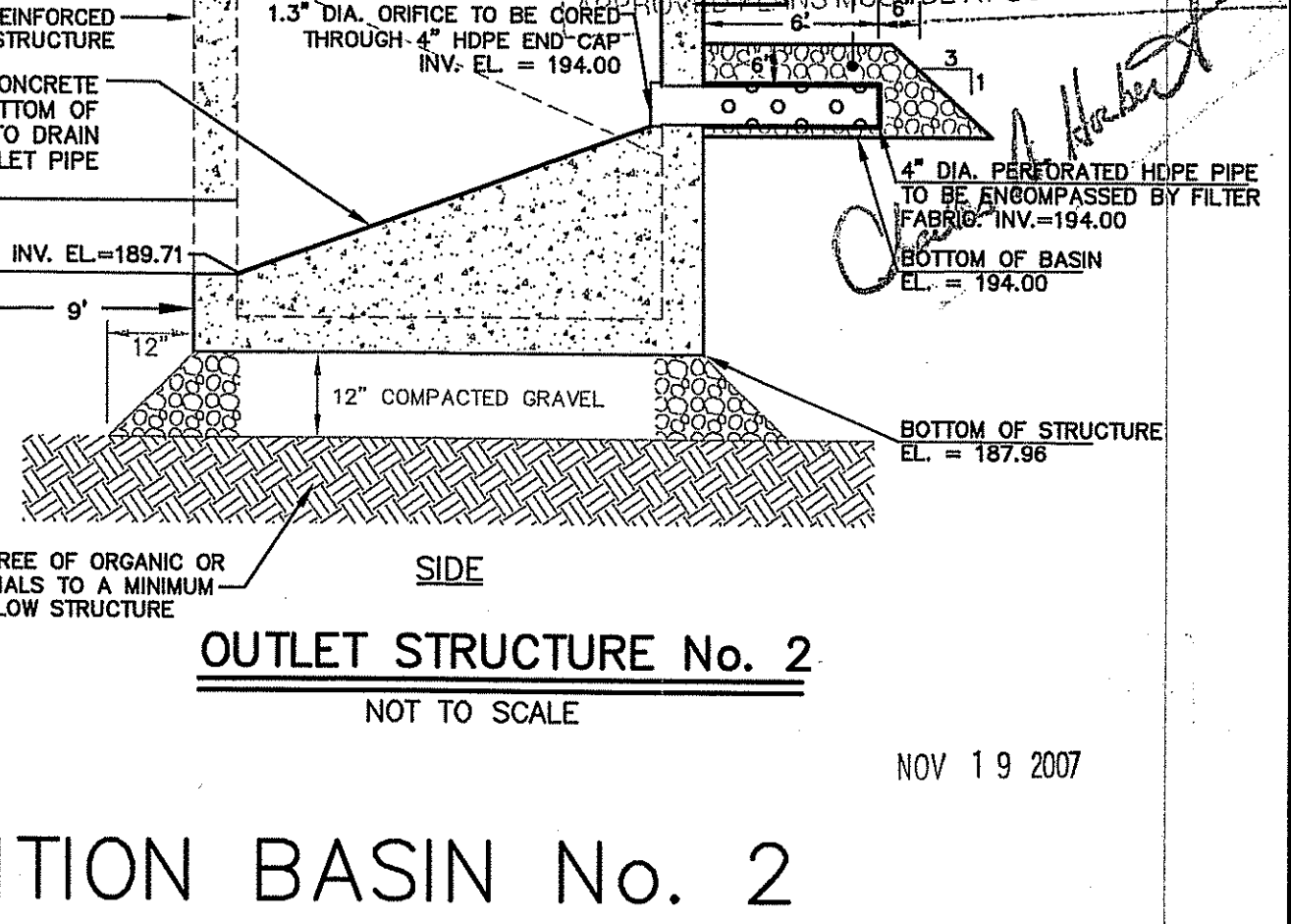
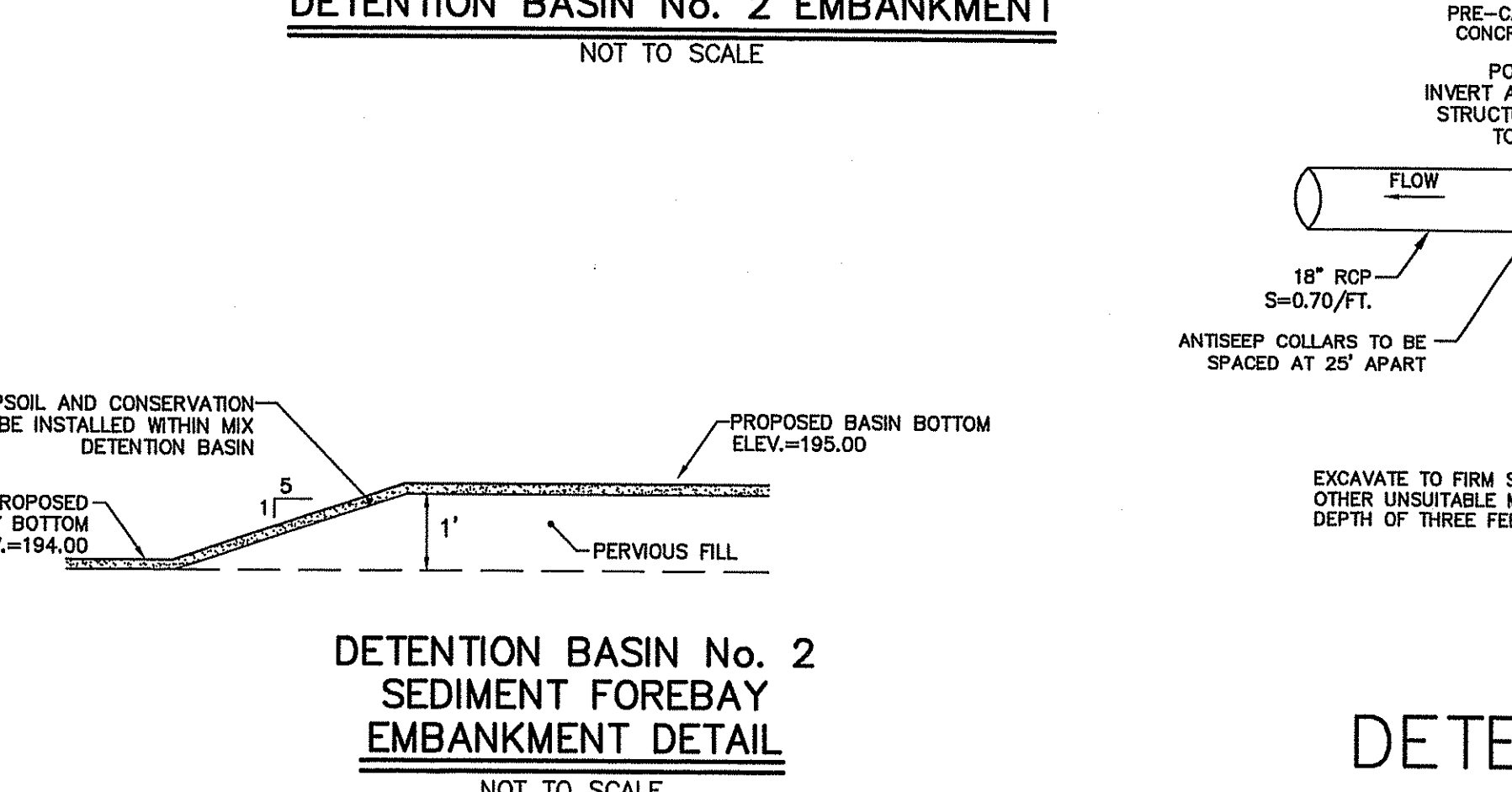
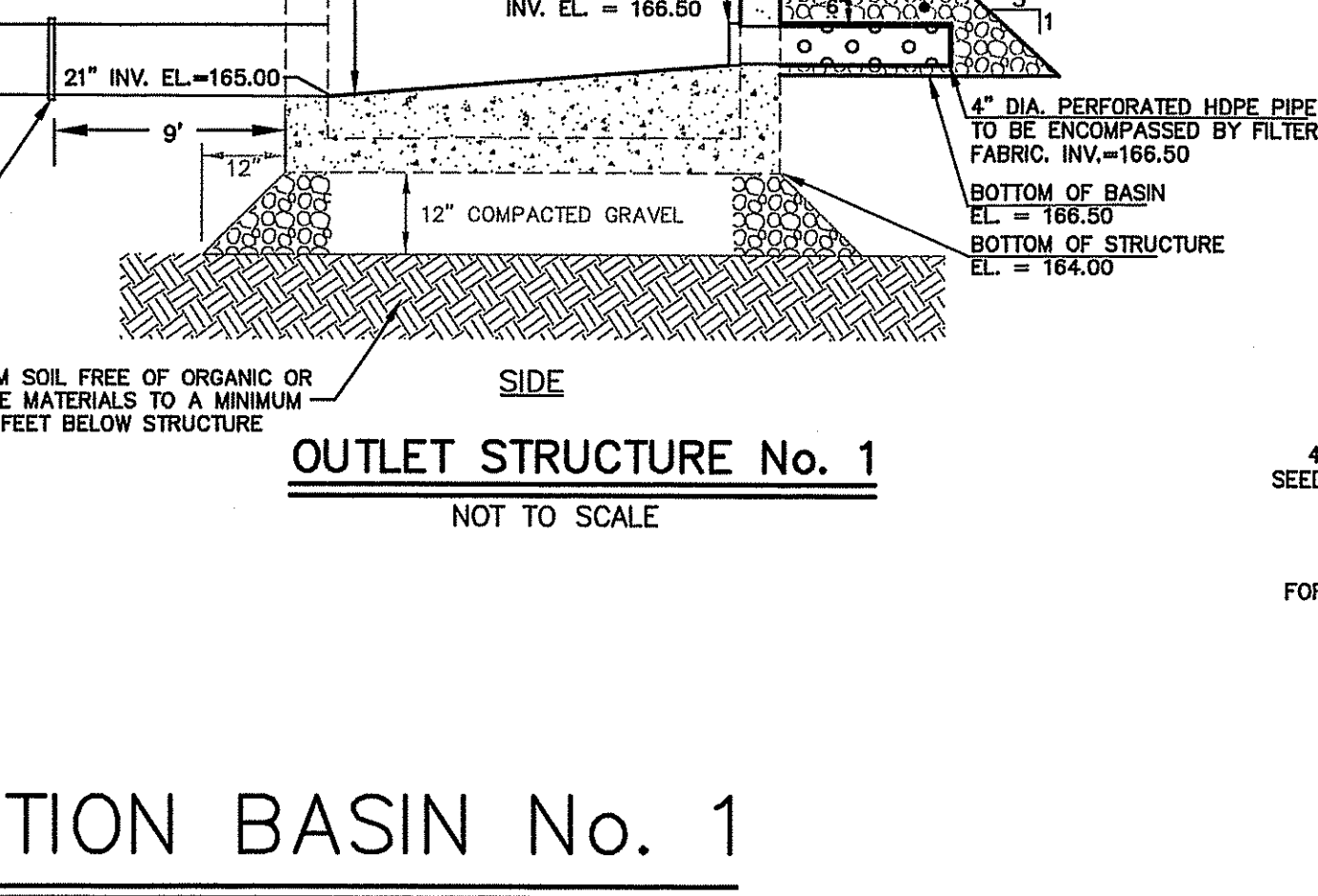
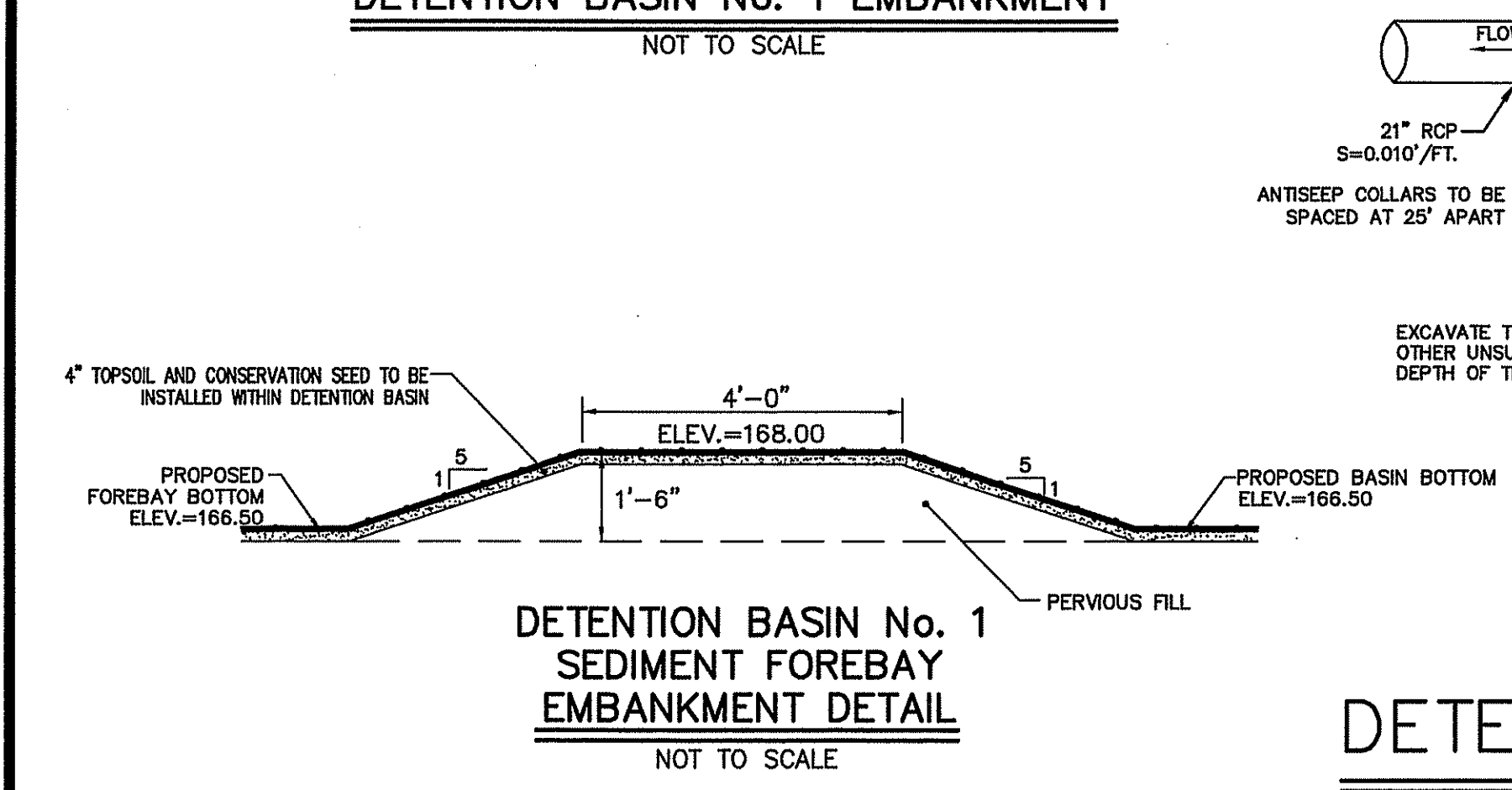
- IMPERVIOUS MATERIAL FOR USE IN FILL AREAS AND WHERE SHOWN ON THE PLANS SHALL BE COMPOSED OF INORGANIC GRAVELLY SILTY SOIL (GLACIAL TILL) WITH GRAVEL AND COBBLES UP TO 2 INCHES MAXIMUM SIZE. THE SOIL SHALL BE FREE OF RUBBISH, ICE, VEGETATIVE MATTER, LOAM, OR OTHER DEBRIS.
- PERVIOUS MATERIAL FOR USE IN FILL AREAS AND WHERE SHOWN ON THE PLANS SHALL BE COMPOSED OF INORGANIC GRAVELLY SANDY SOIL WITH GRAVEL AND COBBLES UP TO 3.5 INCHES MAXIMUM SIZE. THE SOIL SHALL BE FREE OF RUBBISH, ICE, VEGETATIVE MATTER, LOAM, OR OTHER DEBRIS.
- IMPERVIOUS AND PERVIOUS FILL MATERIAL SHALL HAVE THE FOLLOWING GRADATION AS DEFINED BY A STANDARD SEIVE TEST (ASTM D422):

MIN. PERCENT PASSING (BY WT.)	SEIVE TEST
100	3.5"
50-100	3/4"
25-75	No. 4
0-10	No. 200

NOTES:

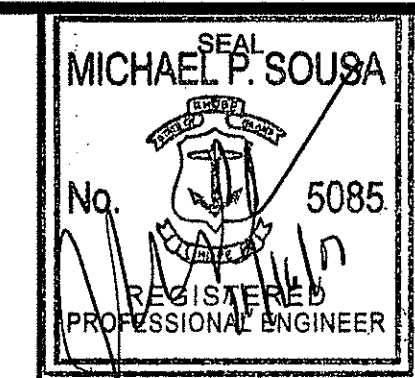
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100	3.5"
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25-75	No. 4
0-10	No. 200



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CHIEF DESIGNER:	LCB
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	VERT.:
DATUM:	HORIZ.:
	VERT.:
GRAPHIC SCALE	

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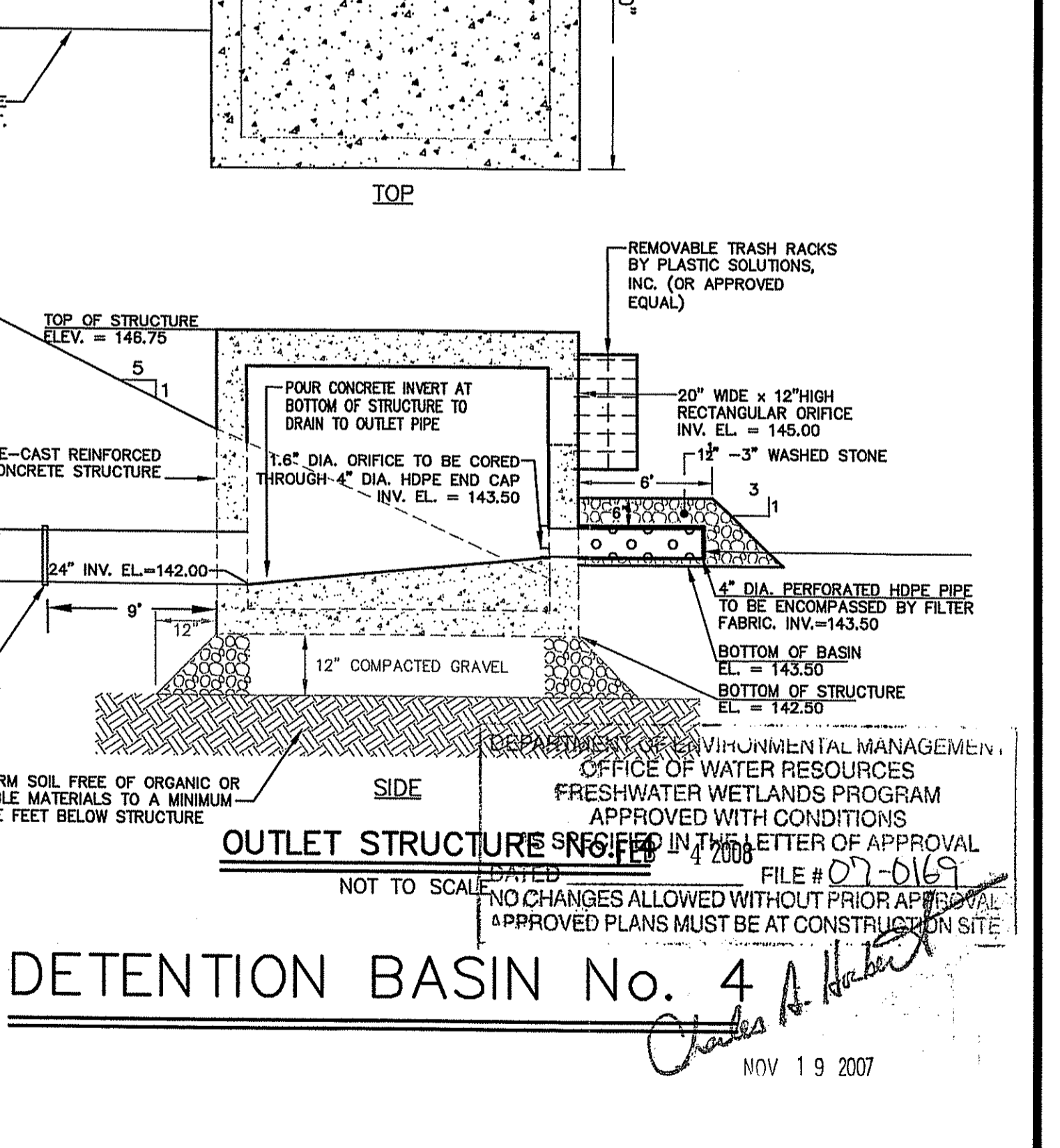
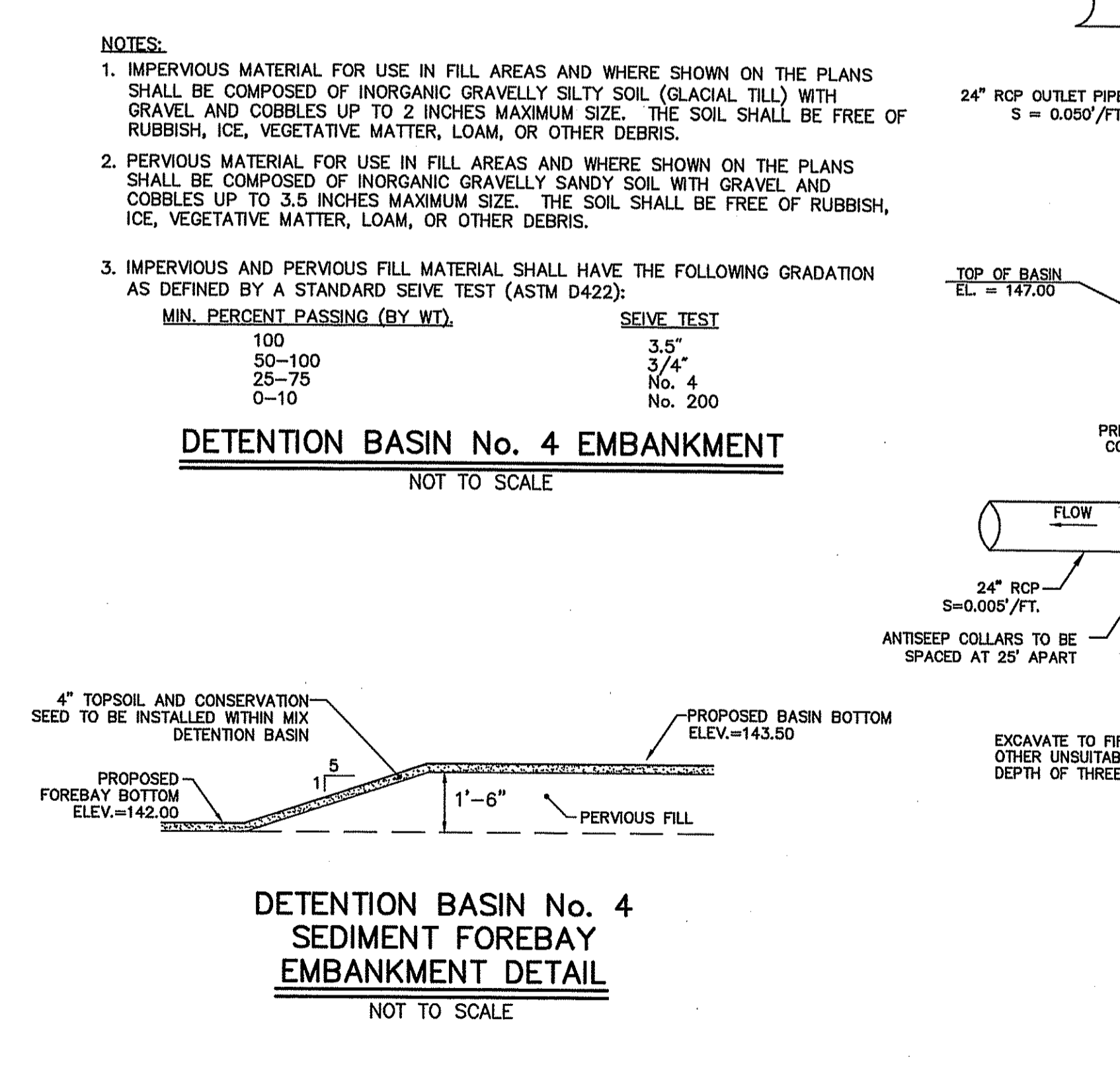
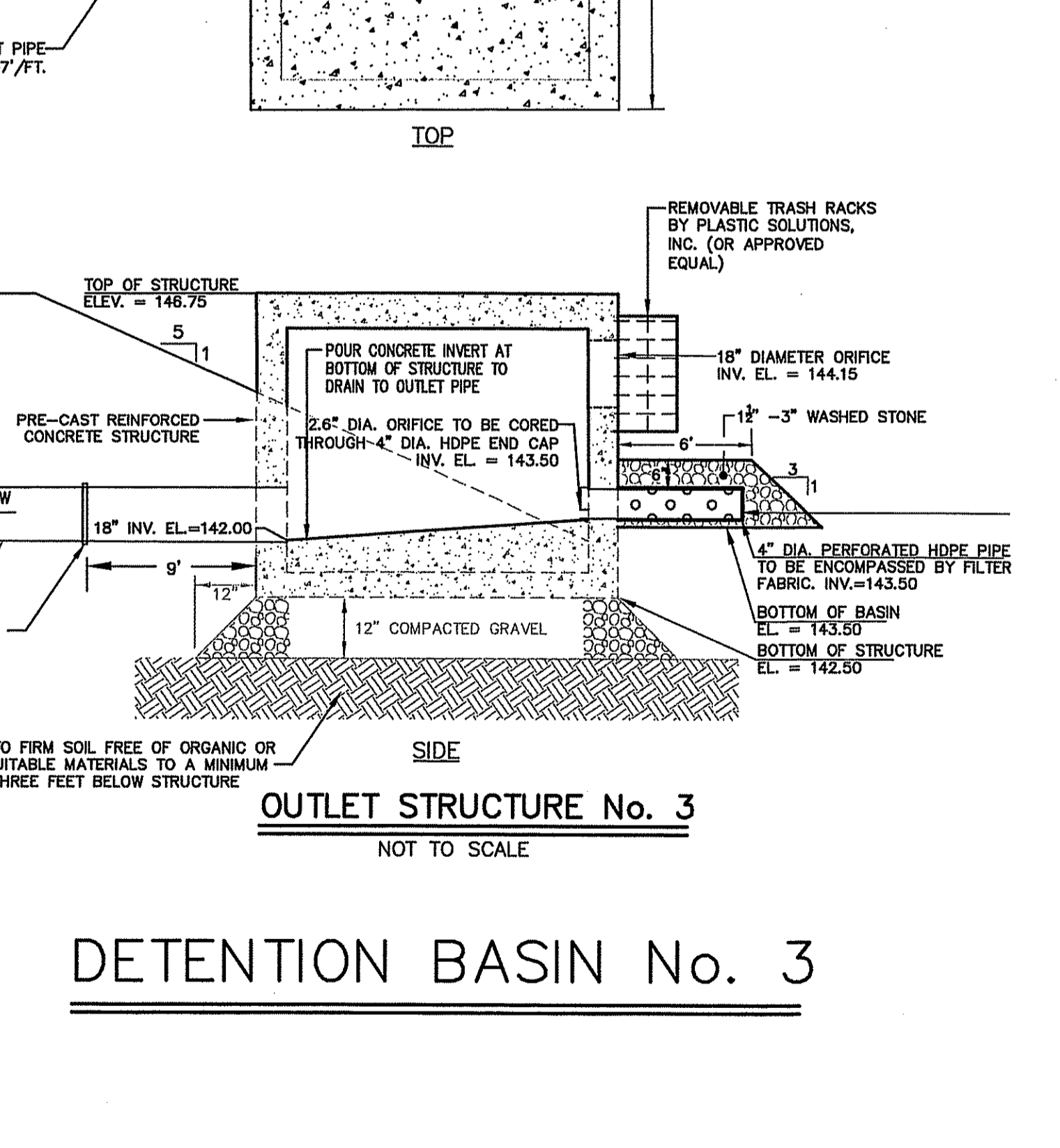
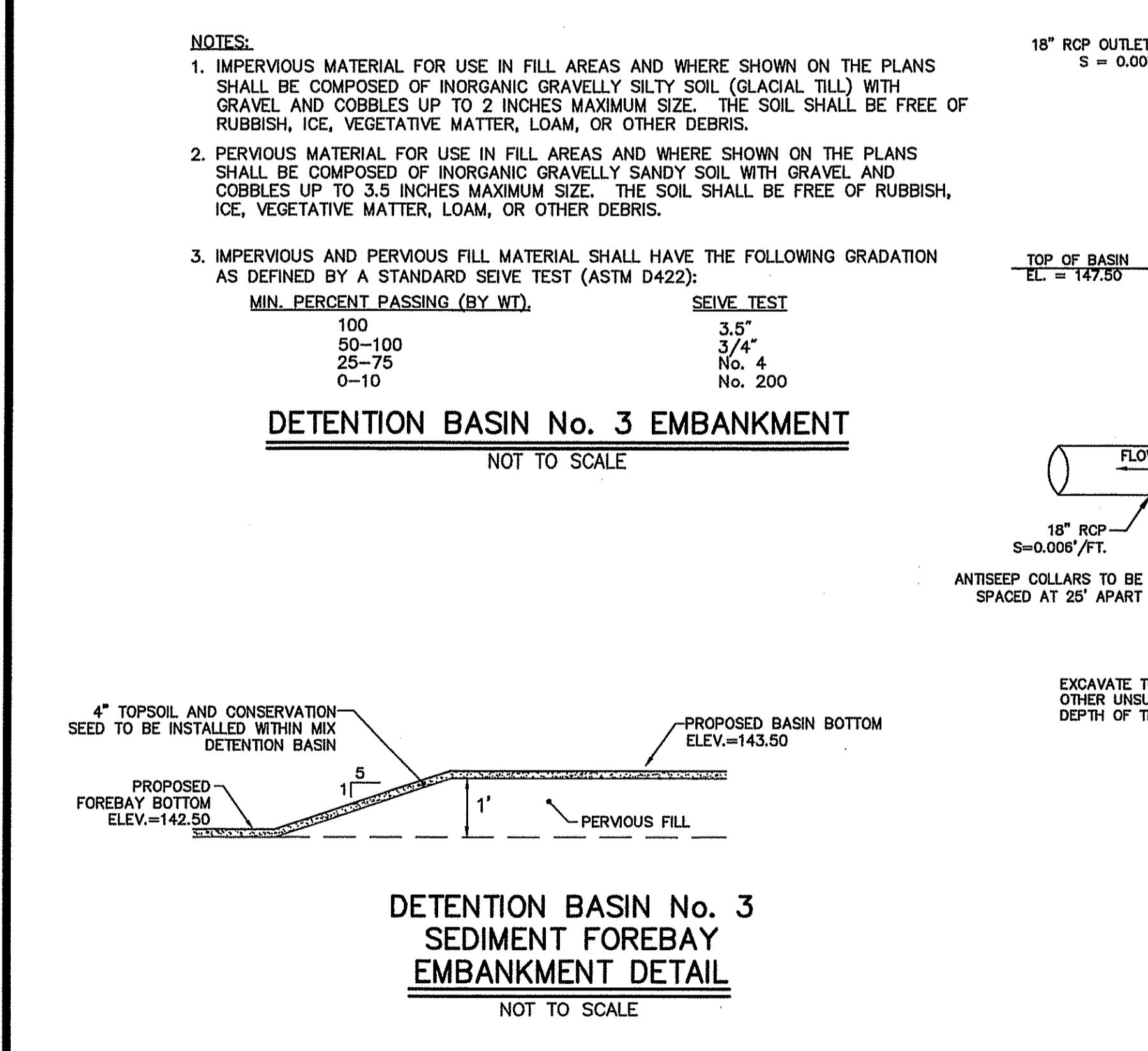
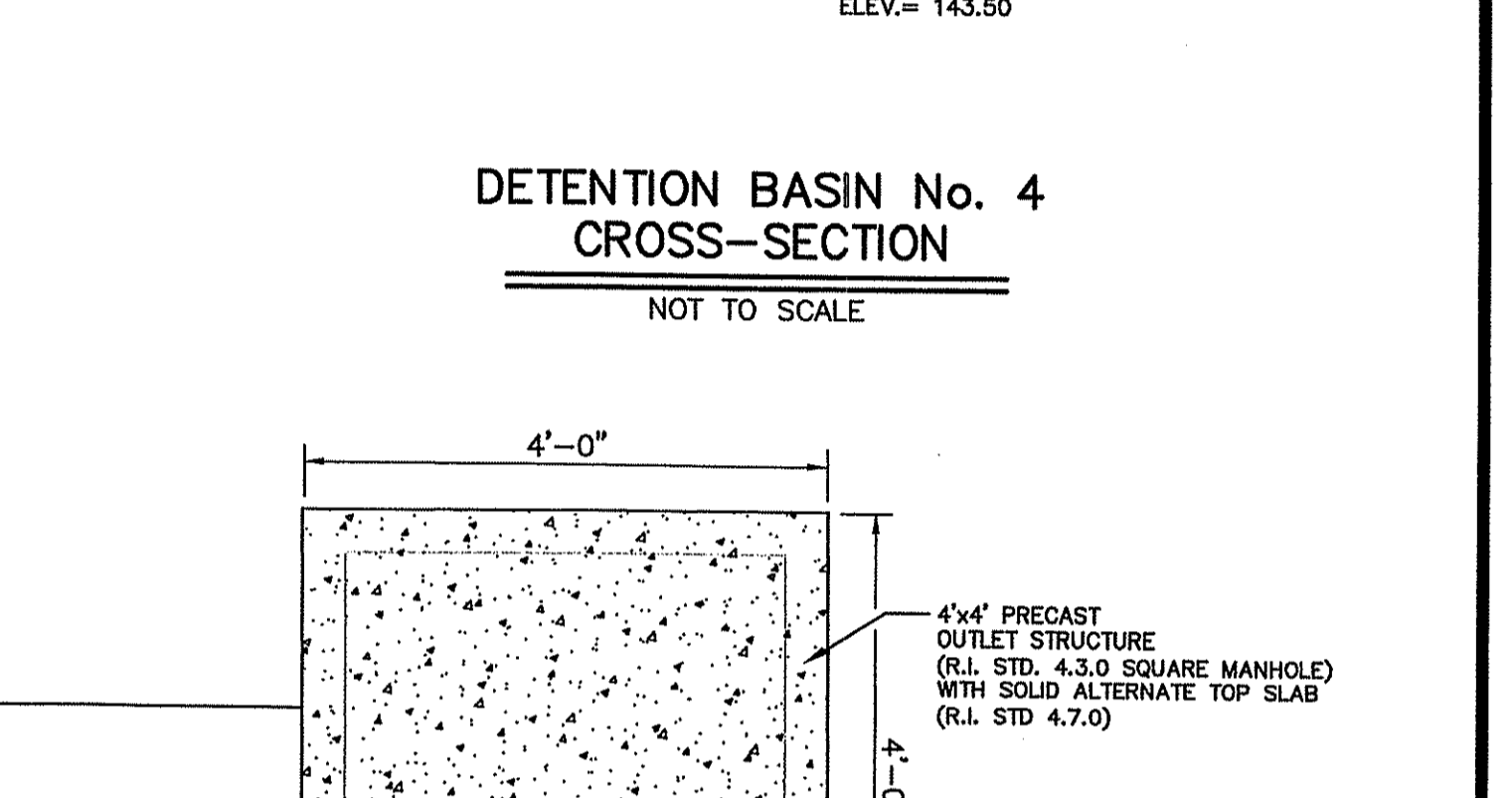
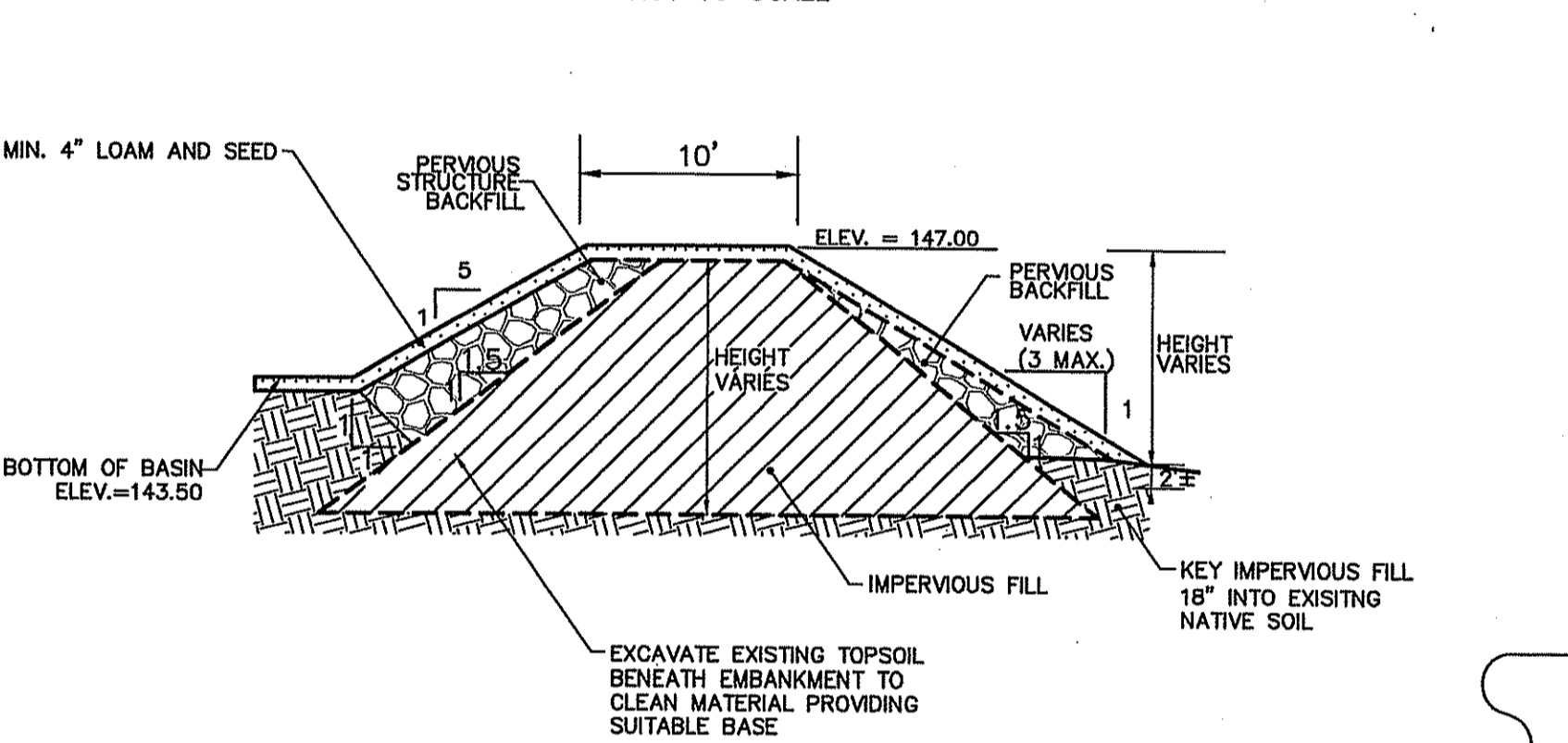
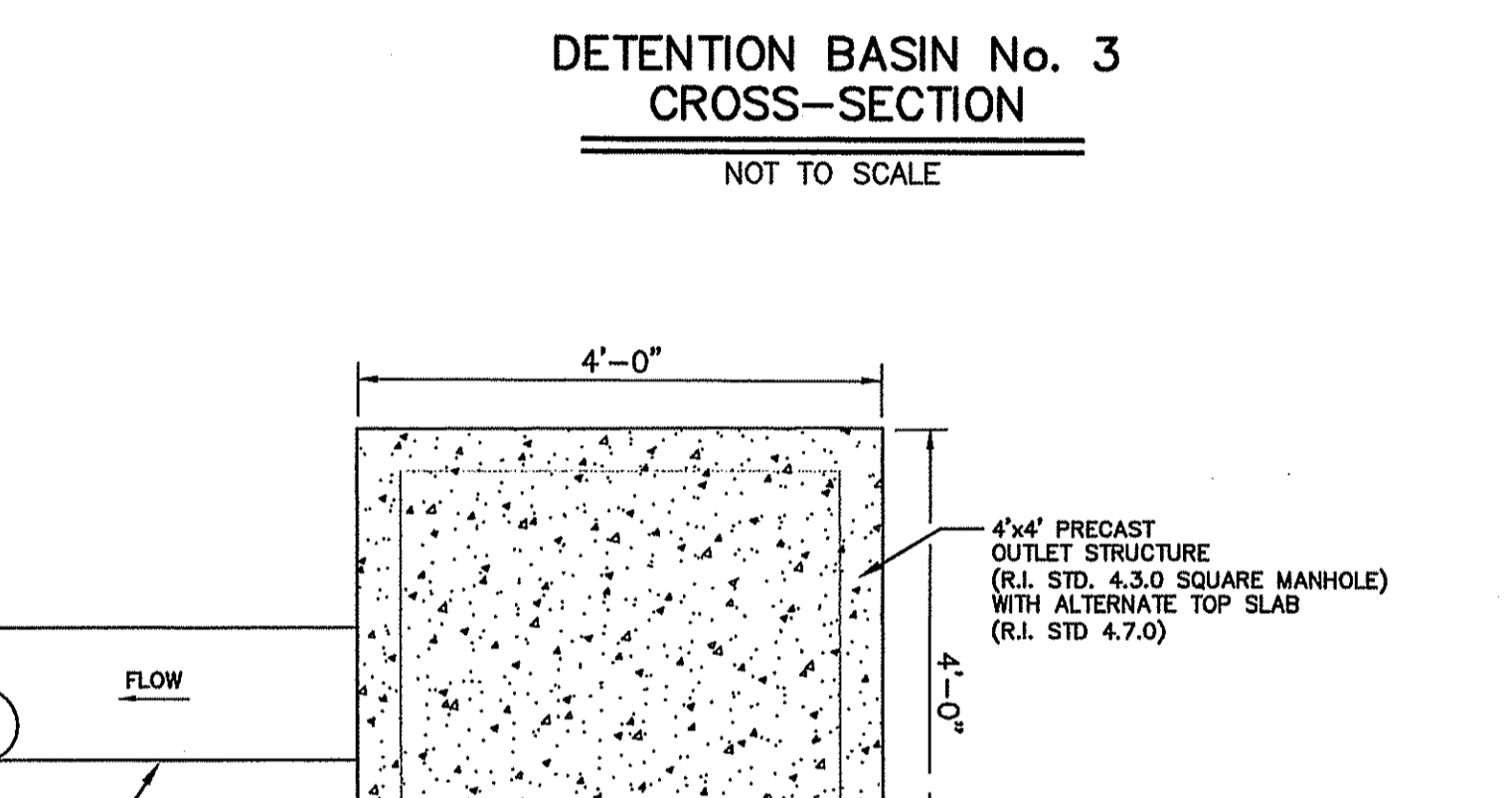
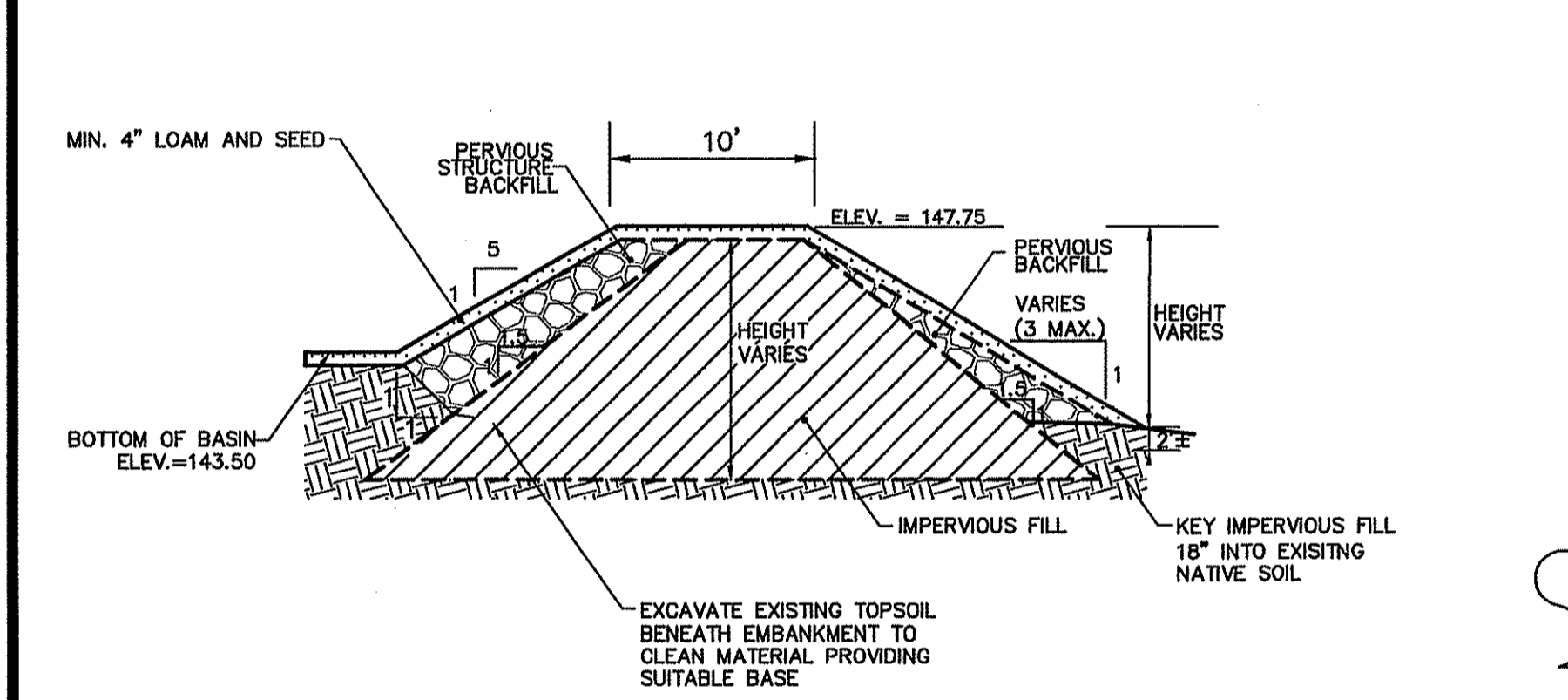
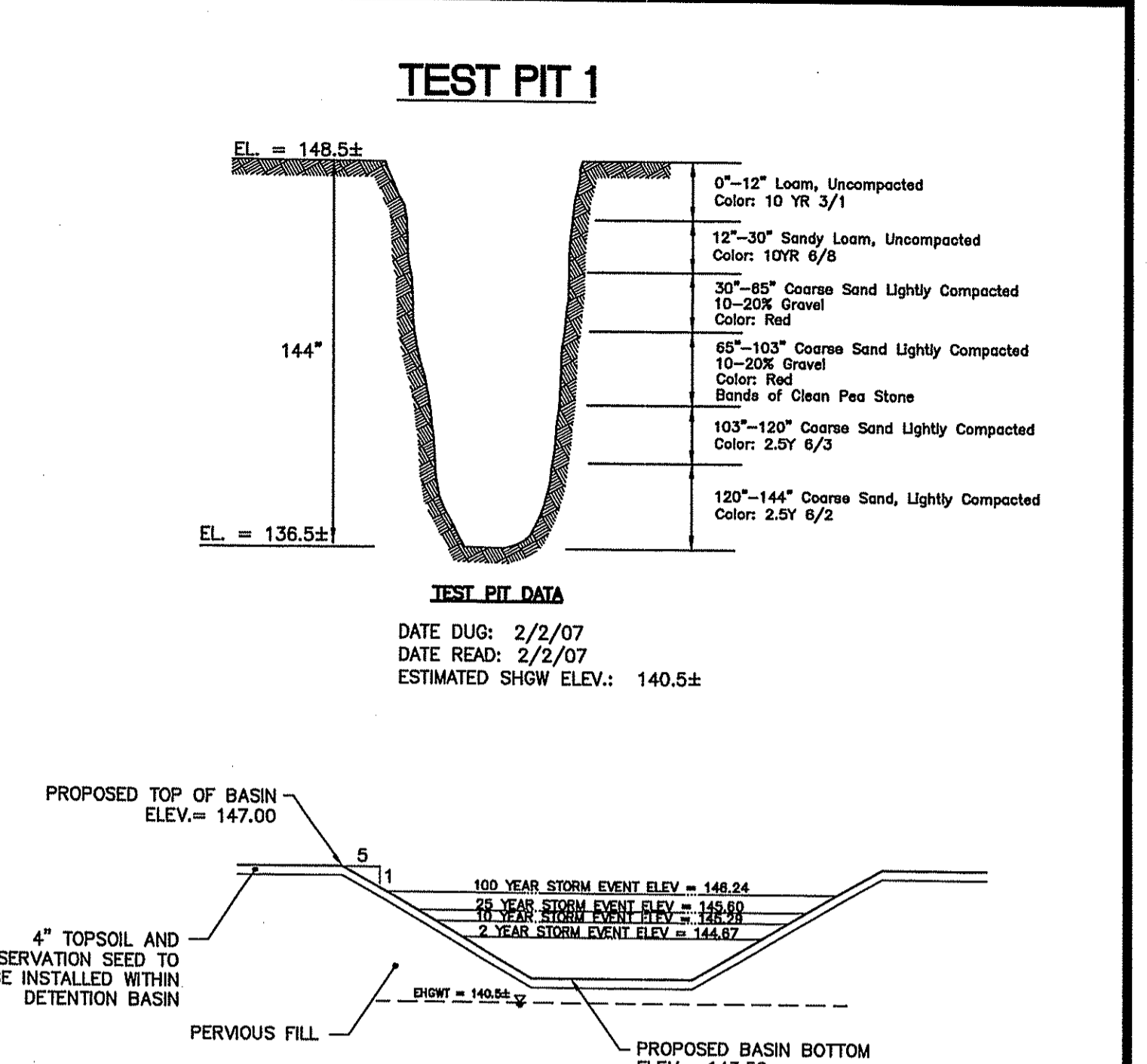
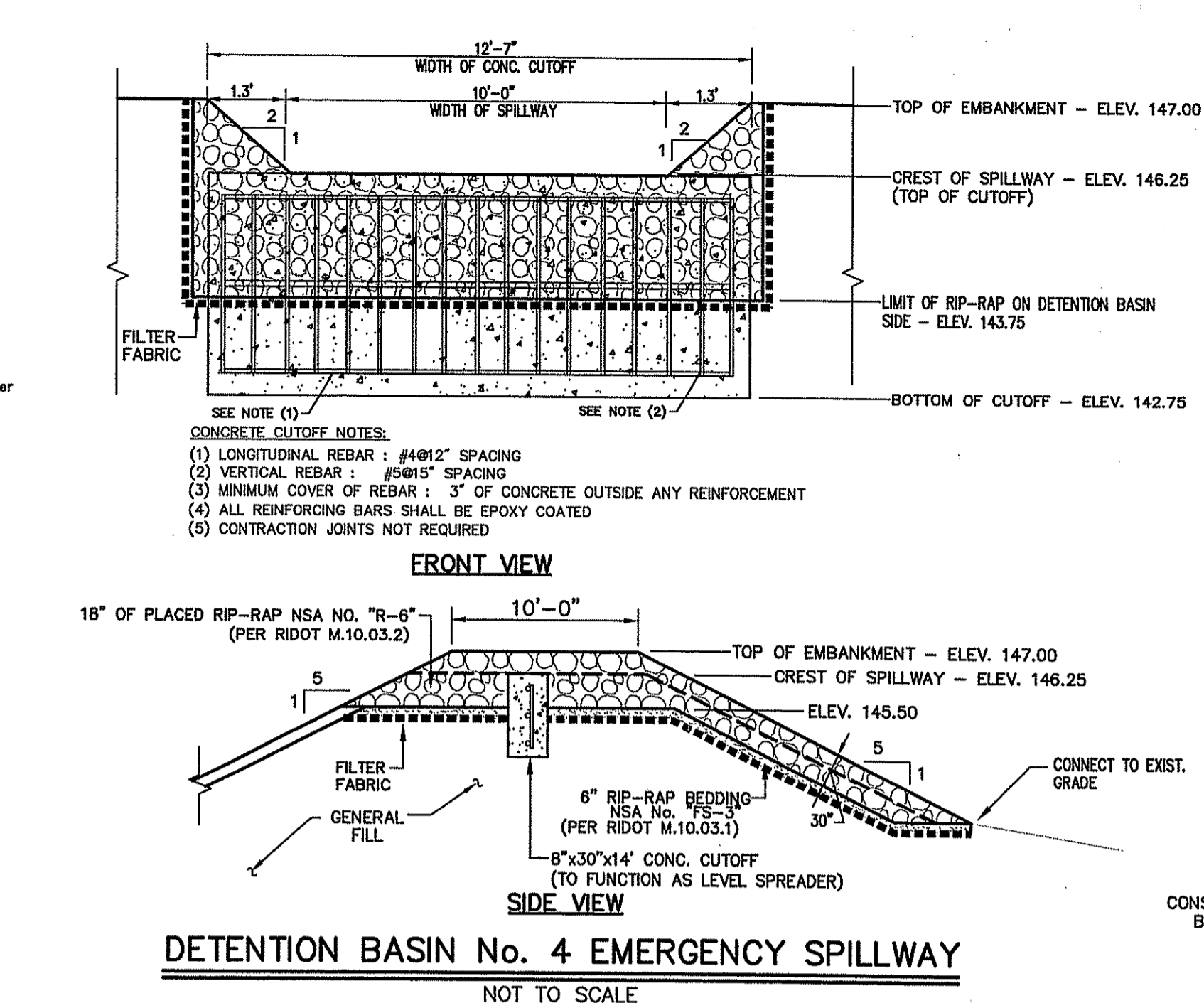
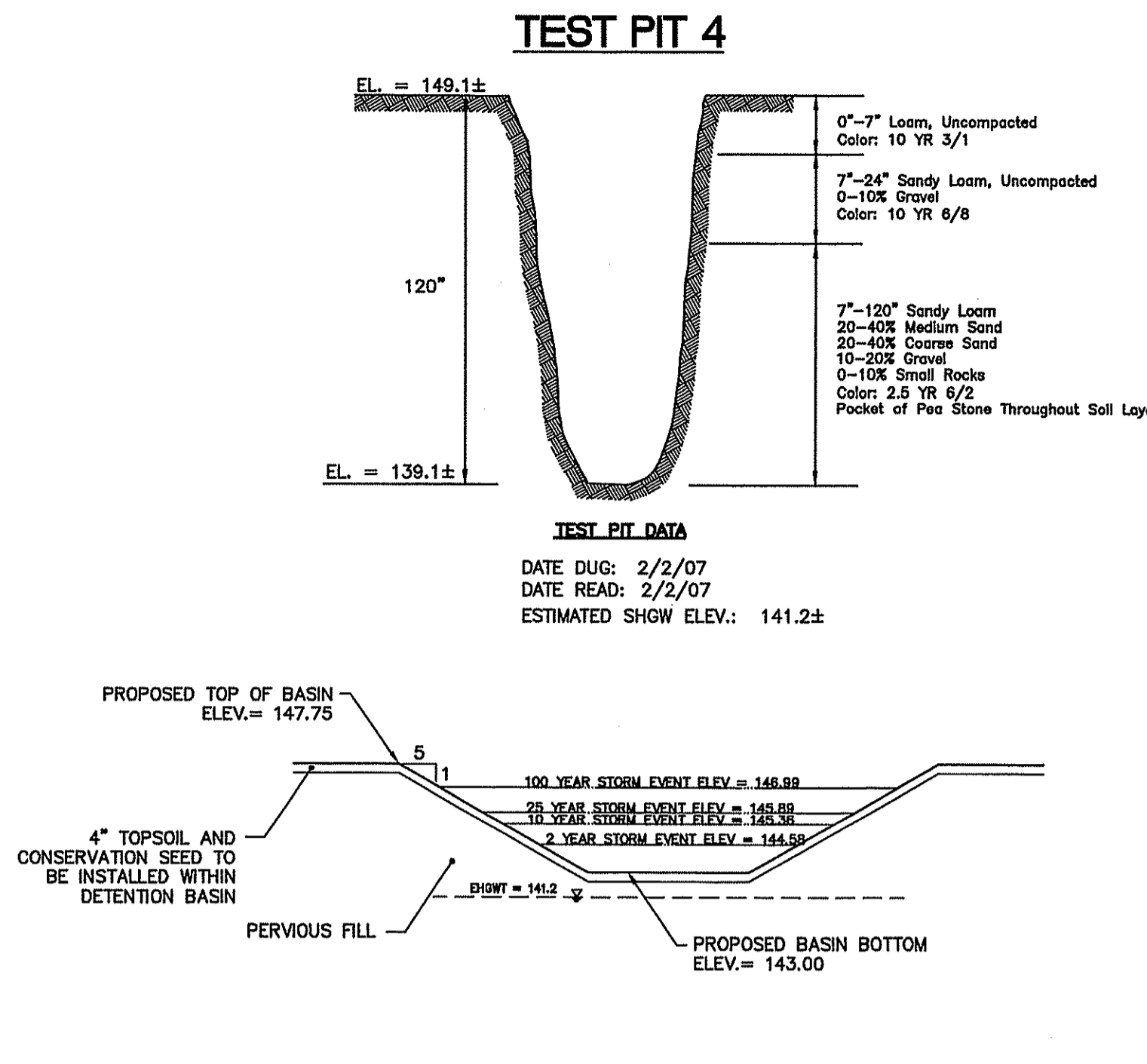
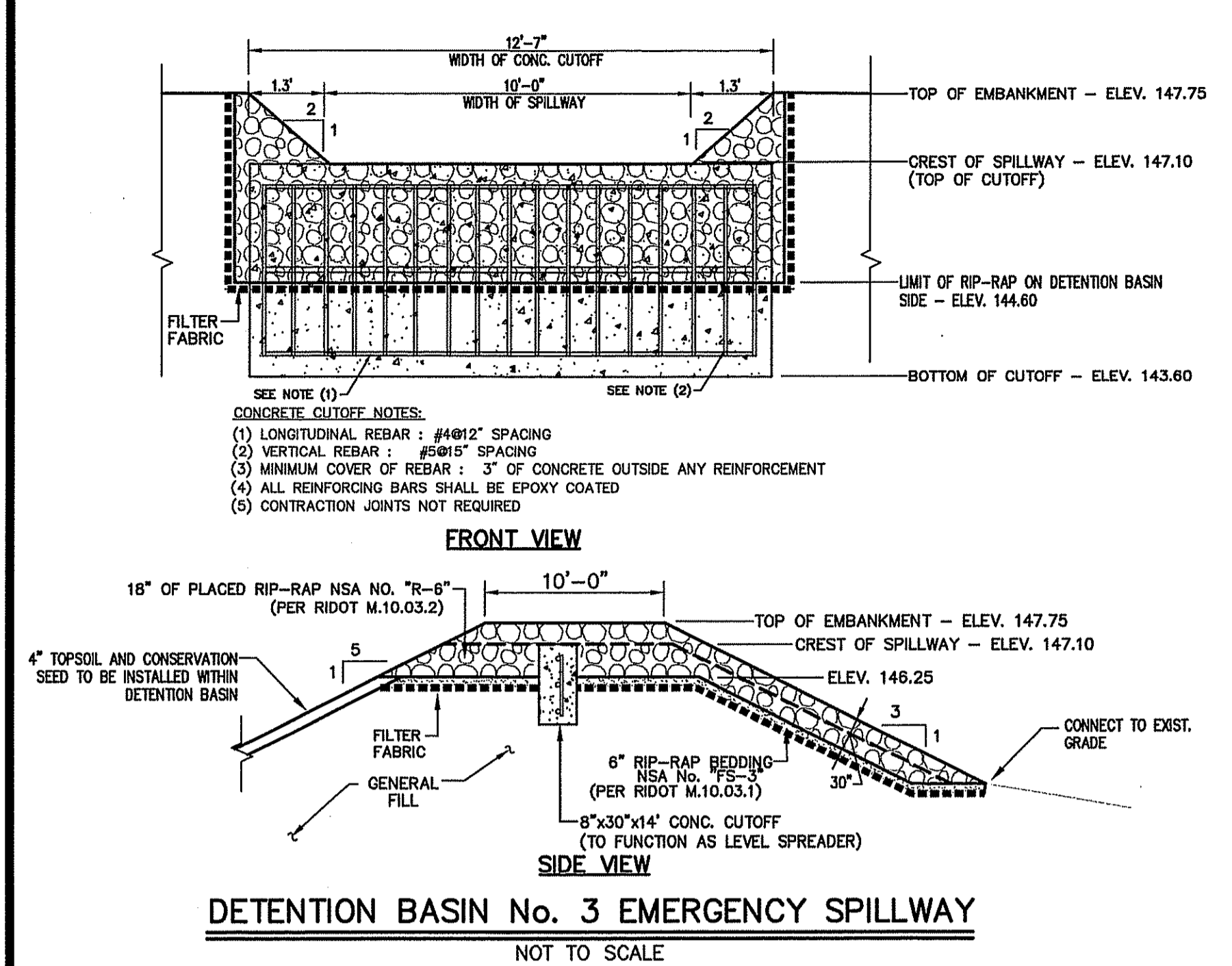
PROJ. No.: 20050997.A10
 DATE: APRIL 2007

C10.03
27 OF 30

GOLD RUSH ESTATES
 DETAIL SHEET No. 3
 ASSESSOR'S PLAT NO. 17/LOT4
 CUMBERLAND
 RHODE ISLAND

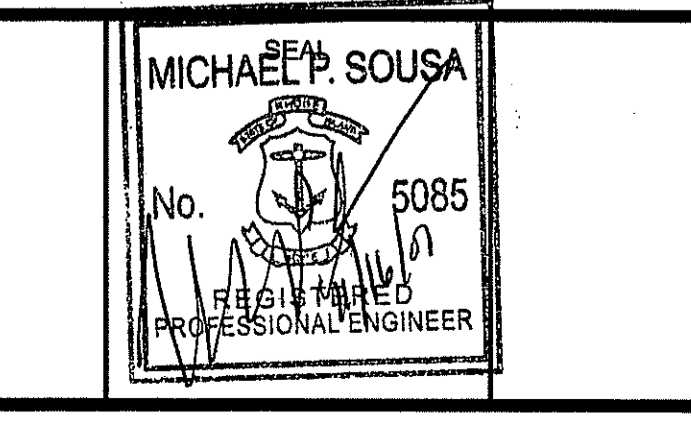
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No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE



SCALE:	HORIZ.: AS NOTED
	VERT.:
	DATUM:
	HORIZ.:
	VERT.:
GRAPHIC SCALE	

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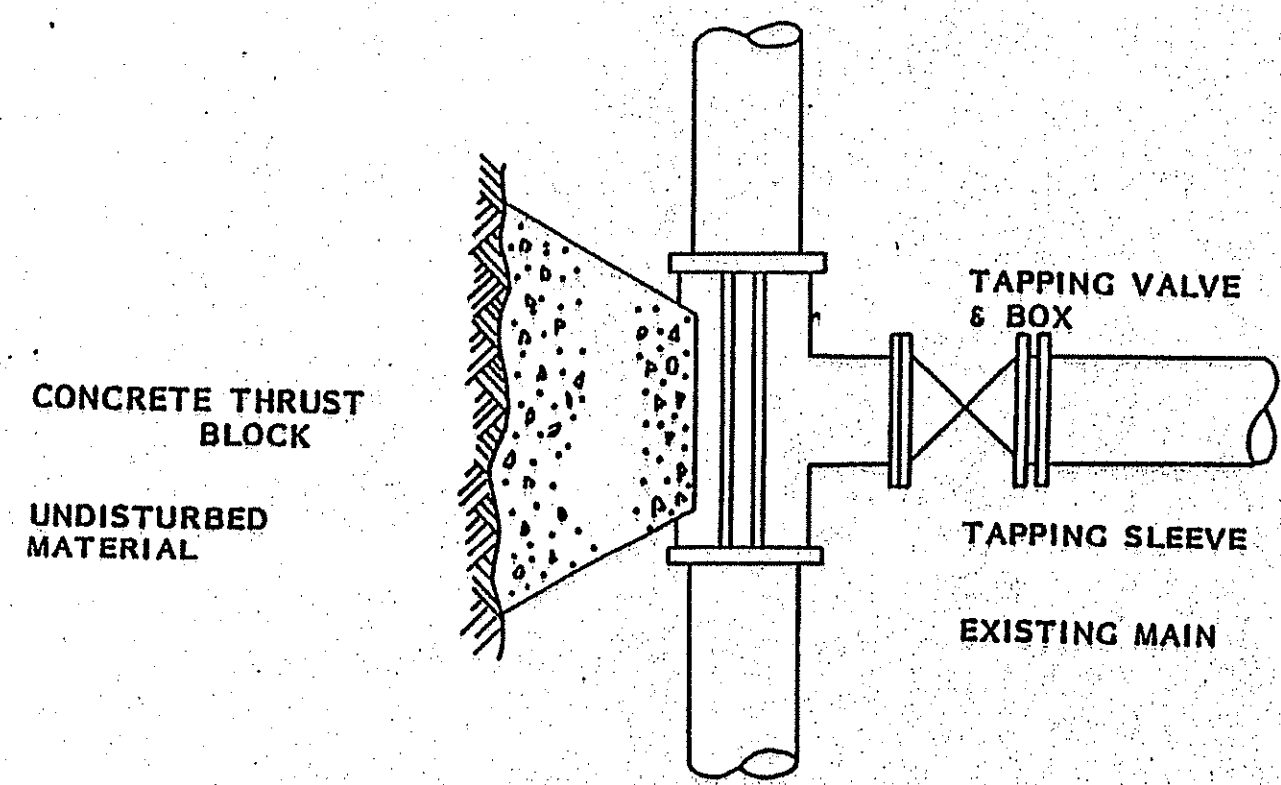
275 PROMENADE ST SUITE 350 PROVIDENCE RI 02908 401.861.3070

GOLD RUSH ESTATES
DETAIL SHEET No. 4

ASSESSOR'S PLAT NO. 17/LOT4
CUMBERLAND RHODE ISLAND

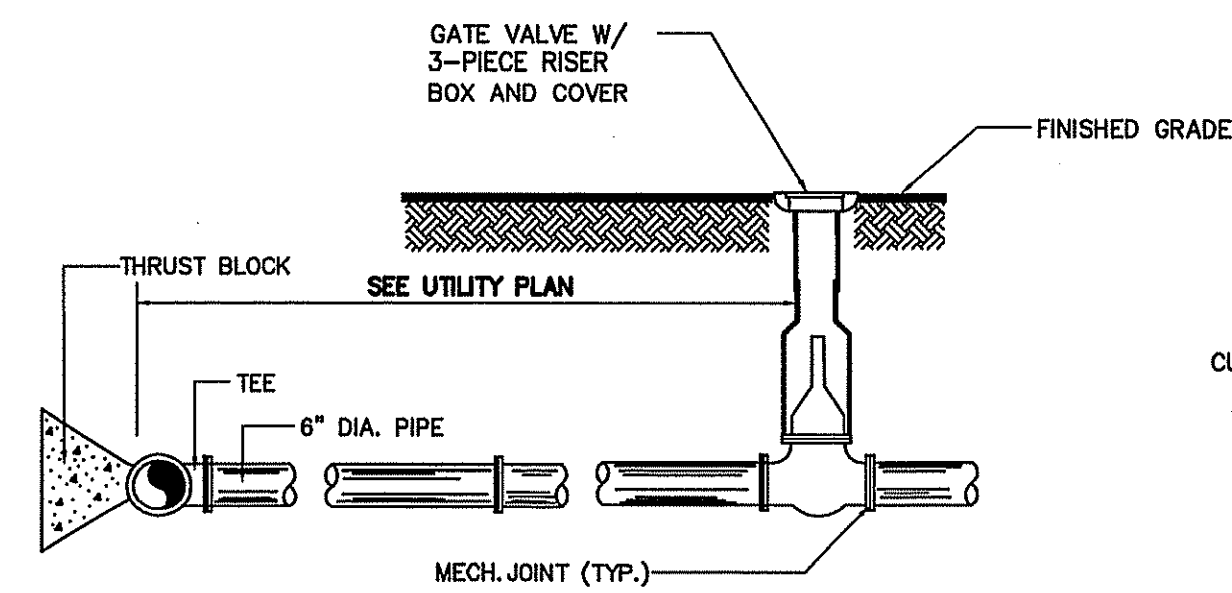
PROJ. No.: 20050997.A10
DATE: APRIL 2007

C10.04
28 OF 30



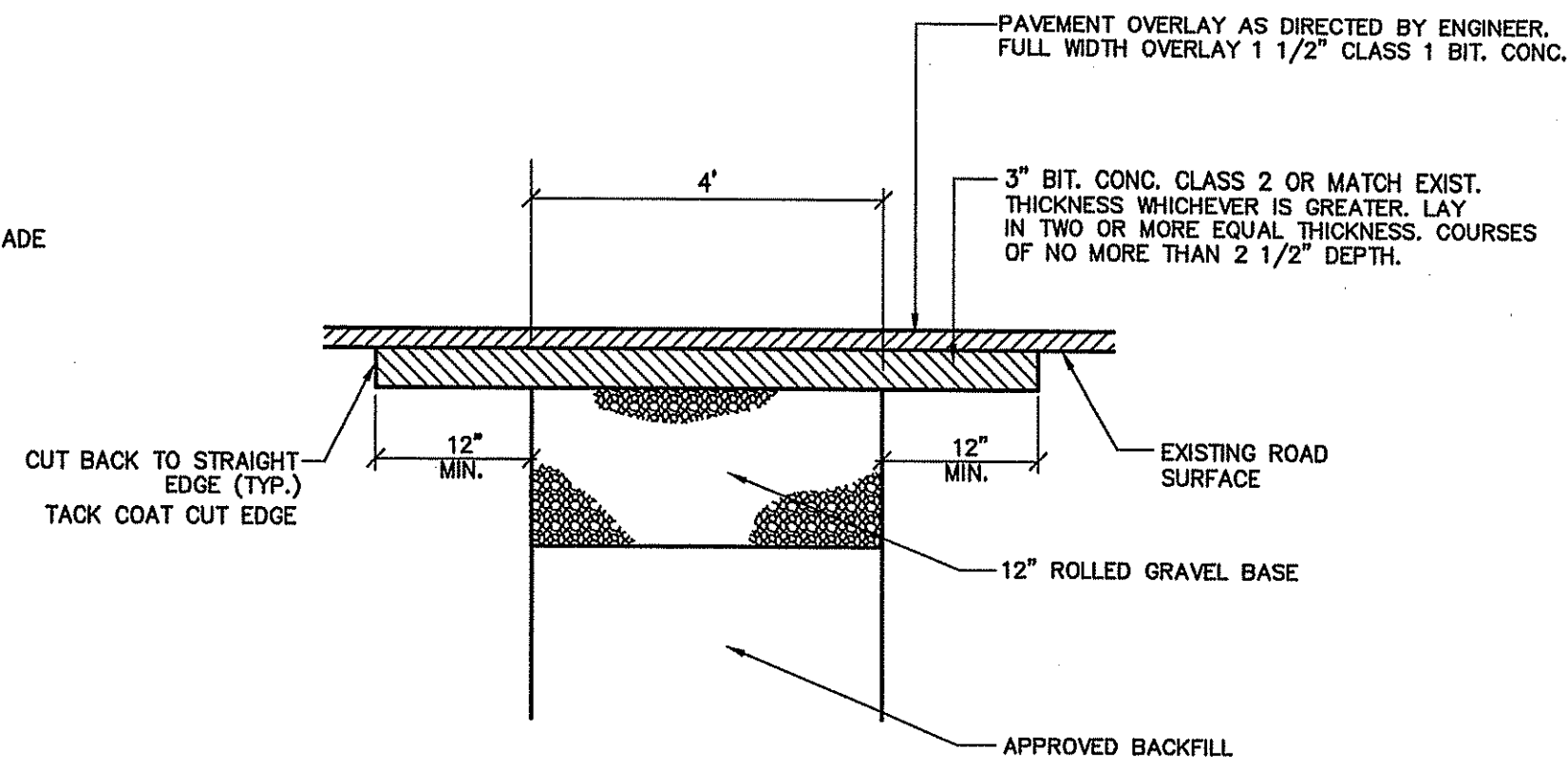
TAPPING SLEEVE AND VALVE DETAIL

NOT TO SCALE



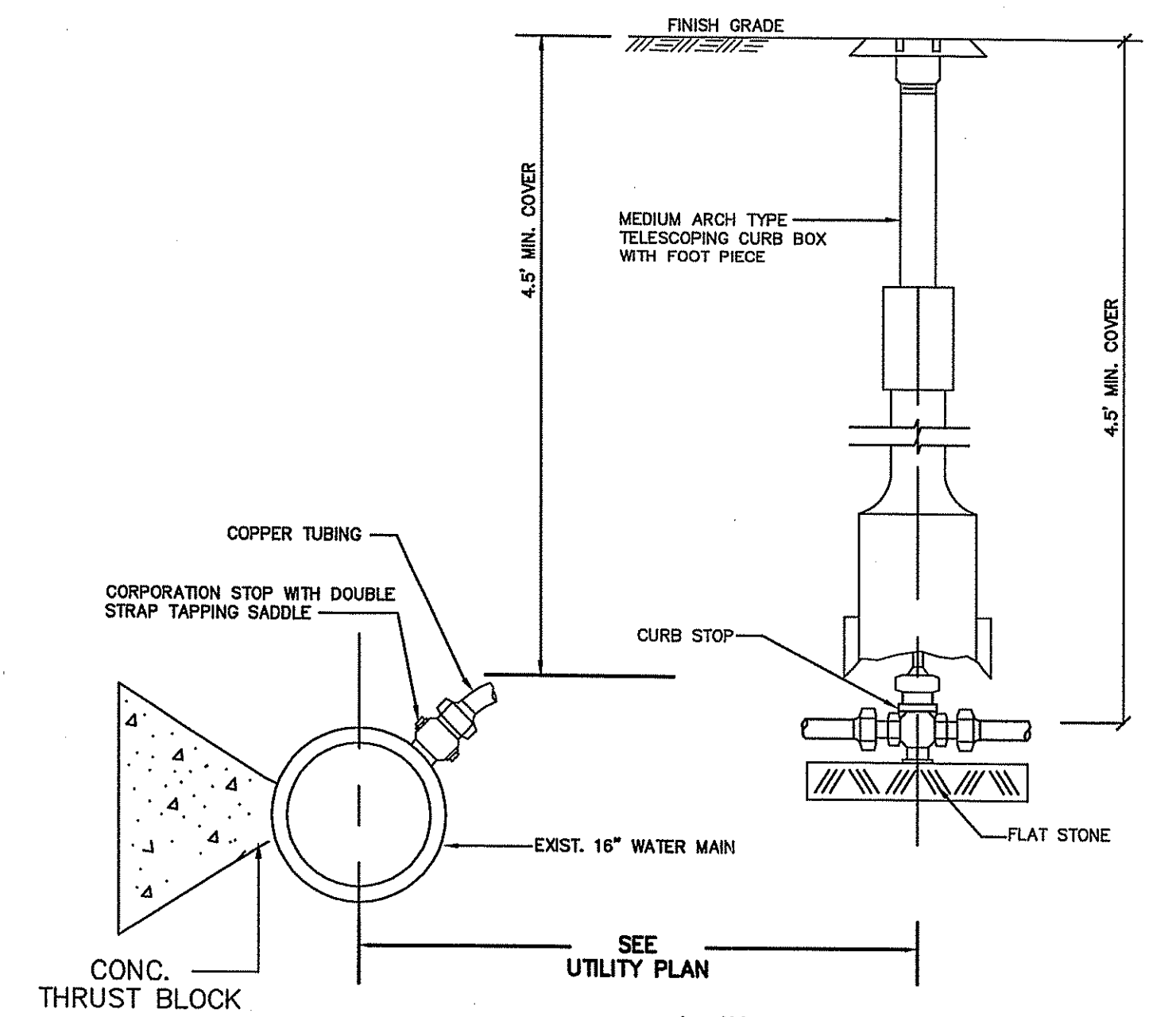
FIRE (6") SERVICE CONNECTION

NOT TO SCALE



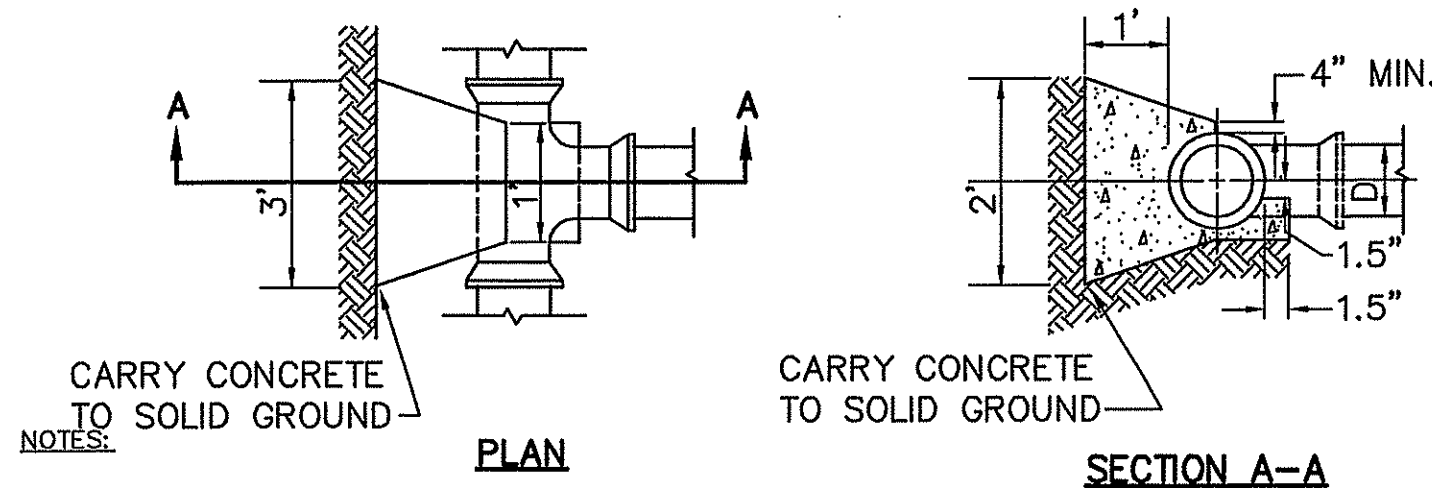
**ROADWAY PAVEMENT REPAIR
(FOR CONNECTION TO
WATER MAIN)**

NOT TO SCALE



**DOMESTIC (2") SERVICE
CONNECTION**

NOT TO SCALE



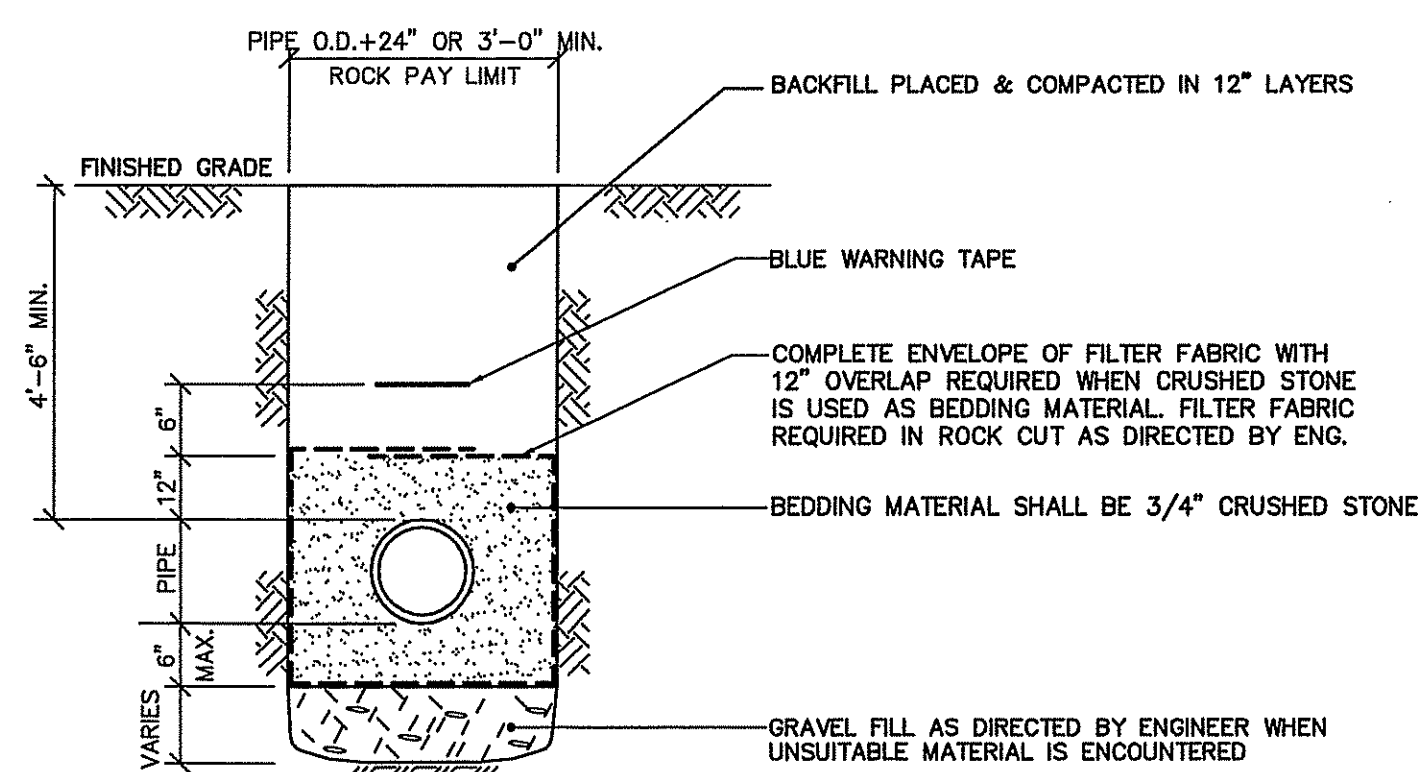
CONCRETE THRUST BLOCK DETAIL

NOT TO SCALE

- ALL CONCRETE TO BE 3000 P.S.I.
- THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 1500 P.S.F. AND STATIC WATER PRESSURE OF 150 P.S.I. WHERE PRESSURE EXCEEDS 150 P.S.I. OR WHERE SOIL BEARING PRESSURE IS LESS THAN 1500 P.S.F., OR SOIL CONDITIONS OR EXCAVATION LIMITS ENCOUNTERED DURING CONSTRUCTION MAKE IT UNFEASIBLE TO PLACE THRUST BLOCKS AGAINST UNDISTURBED EARTH OF THE PROPER BEARING CAPACITY, THE CONTRACTOR SHALL DESIGN, GET APPROVAL OF, AND PLACE SPECIAL REACTION BLOCKS OF SUFFICIENT WEIGHT TO RESIST THE FULL THRUST OF THE LINE UNDER TEST AND OPERATING PRESSURES. THE DESIGN OF SUCH BLOCKS SHALL BE SUBJECT TO THE APPROVAL OF THE KENT COUNTY WATER AUTHORITY AND THE ENGINEERS AND SHALL BE SUBMITTED TO THE WATER AUTHORITY BEFORE ACTUAL INSTALLATION TAKES PLACE.

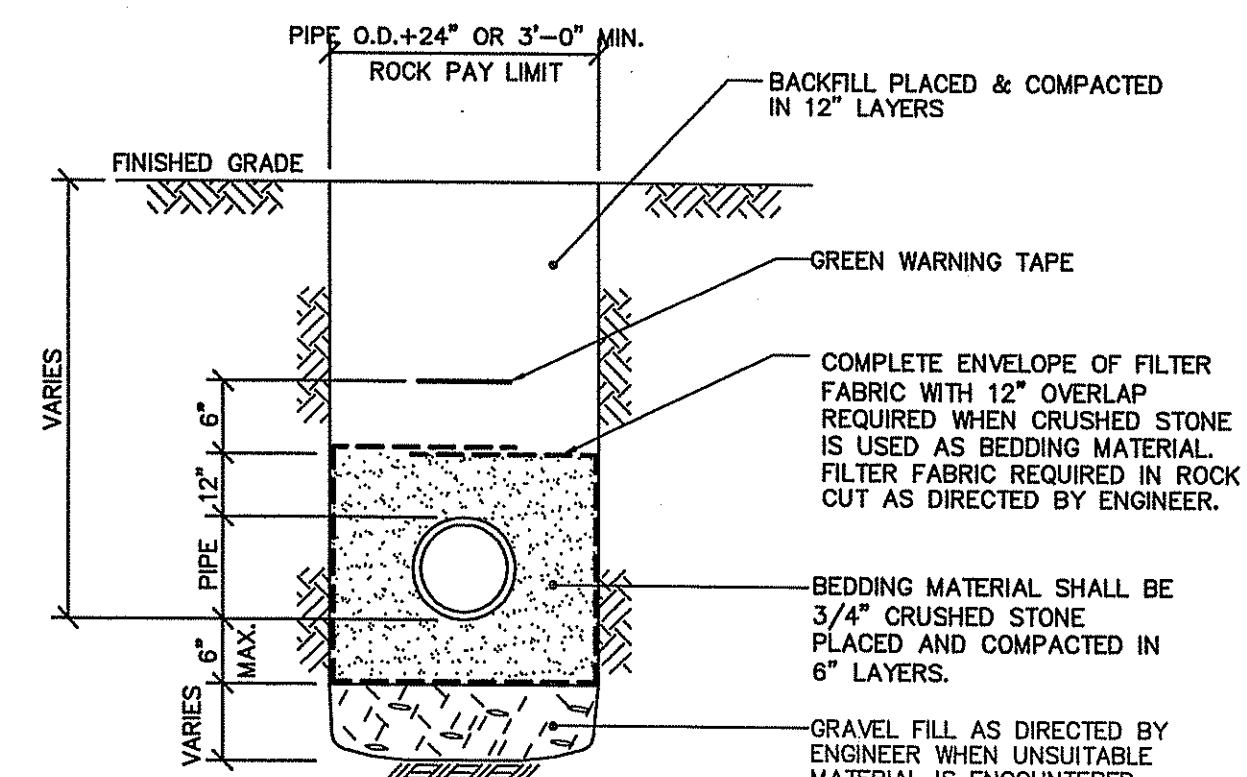
CONCRETE THRUST BLOCK DETAIL

NOT TO SCALE



TYPICAL WATER TRENCH DETAIL

NOT TO SCALE

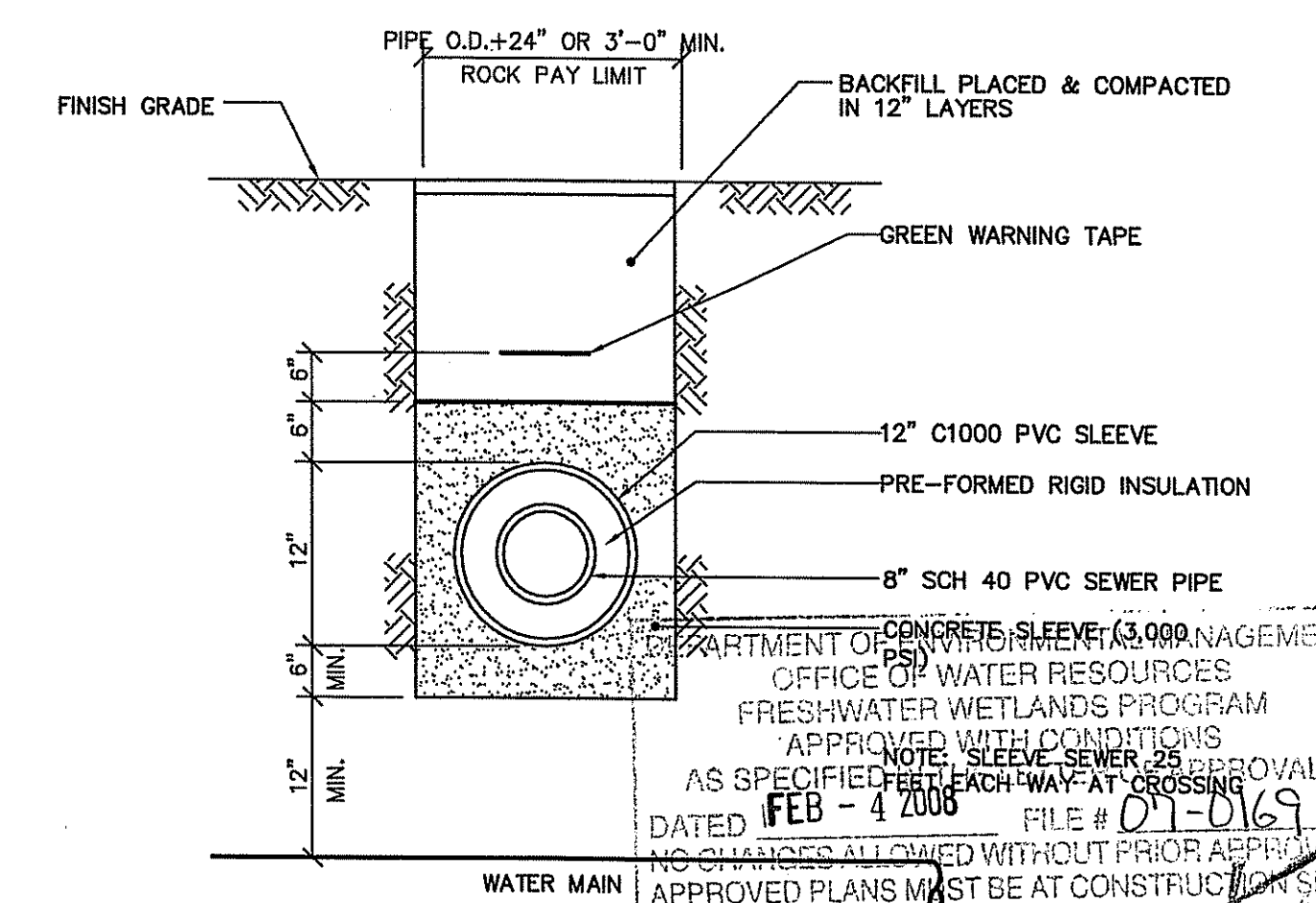


NOTES:

- SEWER TO BE INSULATED WITH 2" RIGID FOAM WHEN LESS THAN 4' COVER IS PROVIDED
- IN AREAS OF WETLAND INSTALLATION, THE FOLLOWING IS REQUIRED TO MINIMIZE WETLAND DISTURBANCE:
ALL EQUIPMENT AND MATERIALS SHALL BE KEPT A MINIMUM OF 10 FEET OUTSIDE OF WETLAND AREAS
EQUIPMENT STAGING AREAS, LAUNCH PITS, AND RECEIVING PITS SHALL BE LOCATED A MINIMUM OF 10 FEET OUTSIDE OF ALL WETLAND AREAS
BEDDING MATERIAL SHALL NOT BE USED IN WETLAND AREAS.
THE SEWER LINE SHALL BE SLEEVED IN CONTINUOUS HDPE PIPE TO EASE PIPELINE MAINTENANCE

TYPICAL SEWER TRENCH DETAIL

NOT TO SCALE



**TYPICAL SEWER TRENCH DETAIL
AT WATER MAIN CROSSING**

NOT TO SCALE

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	08/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL

MICHAEL P. SOUSA

No. 5085

REGISTERED PROFESSIONAL ENGINEER

SCALE:

HORIZ.: AS NOTED

VERT.:

DATUM:

HORIZ.:

VERT.:

0

GRAPHIC SCALE

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GOLD RUSH ESTATES

DETAIL SHEET No. 5

ASSESSOR'S PLAT NO. 17/LOT4

CUMBERLAND RHODE ISLAND

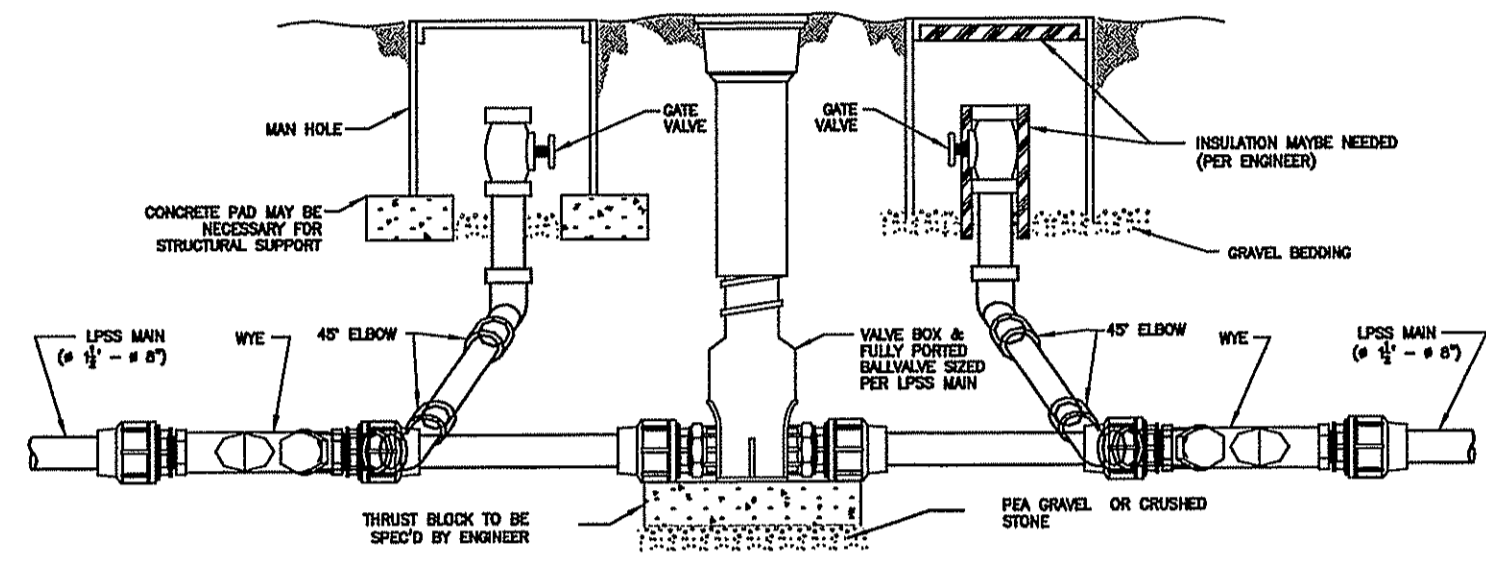
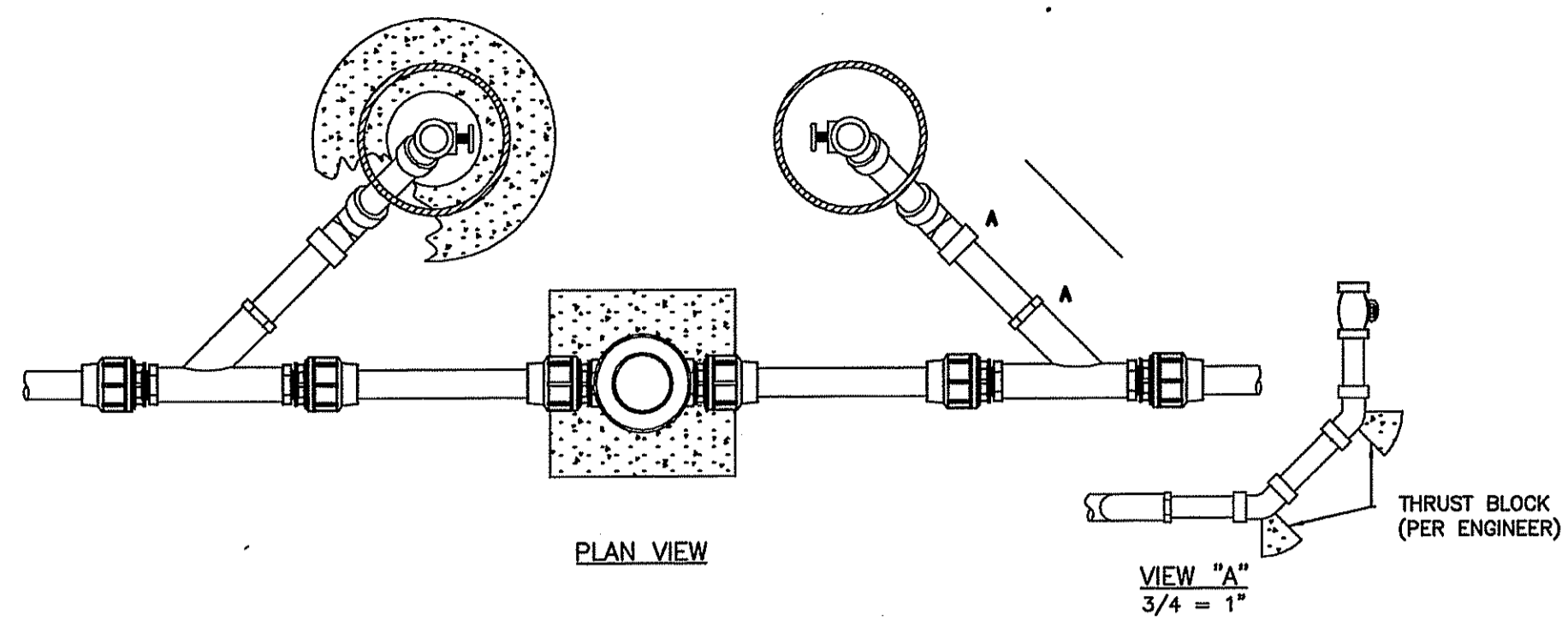
PROJ. No.: 20050997A10

DATE: APRIL 2007

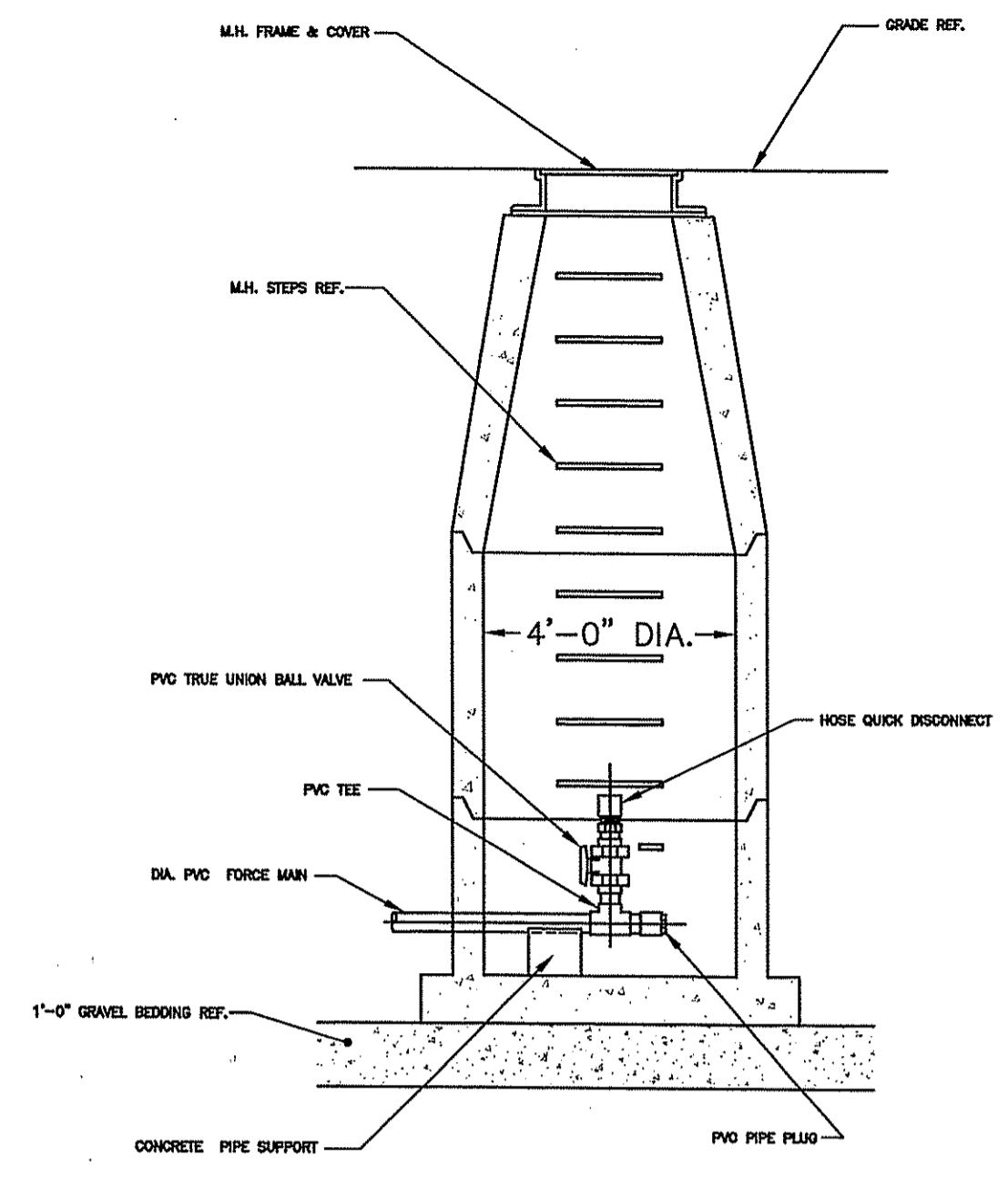
C10.05

29 OF 30

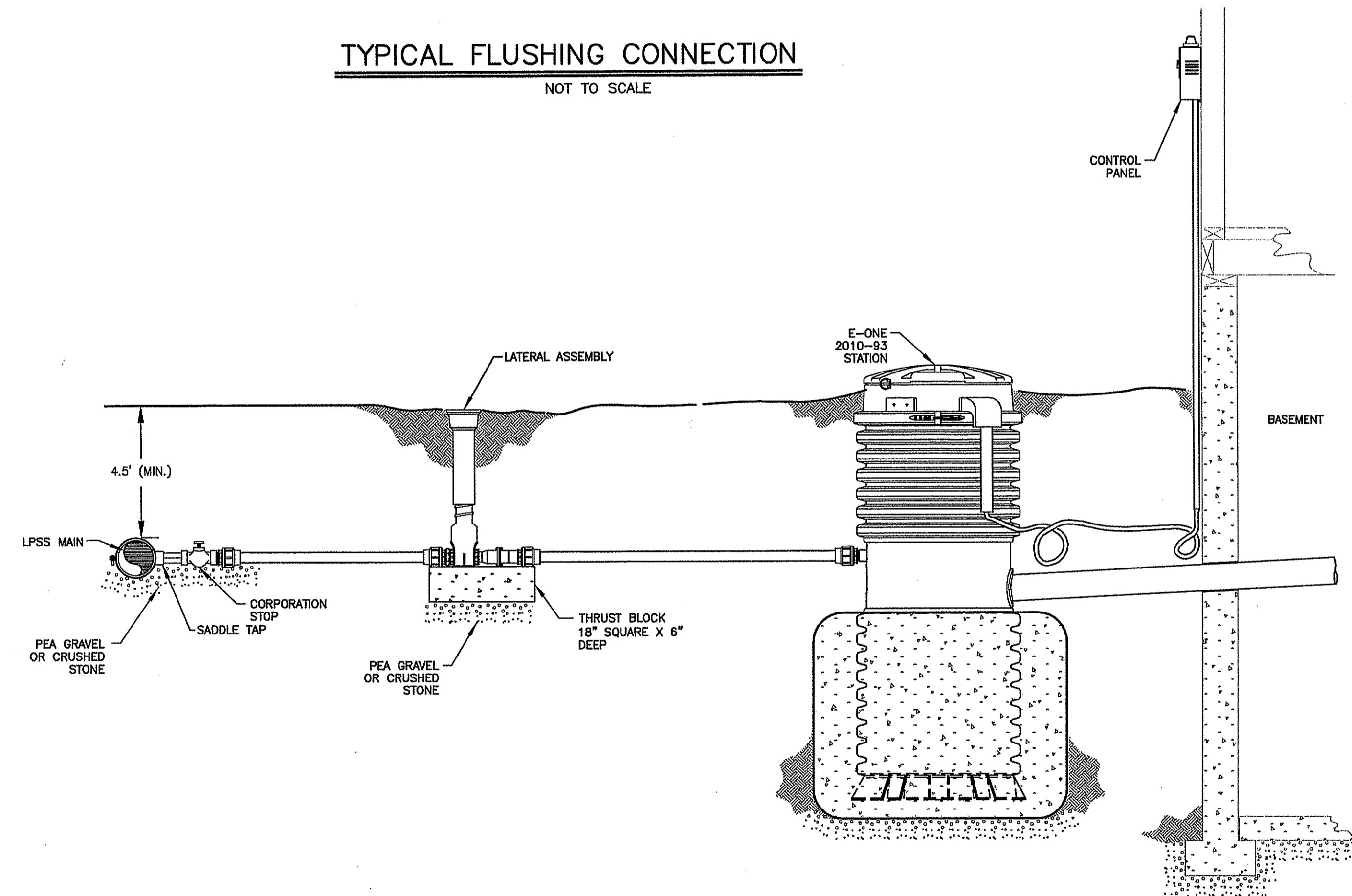
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 UCS:



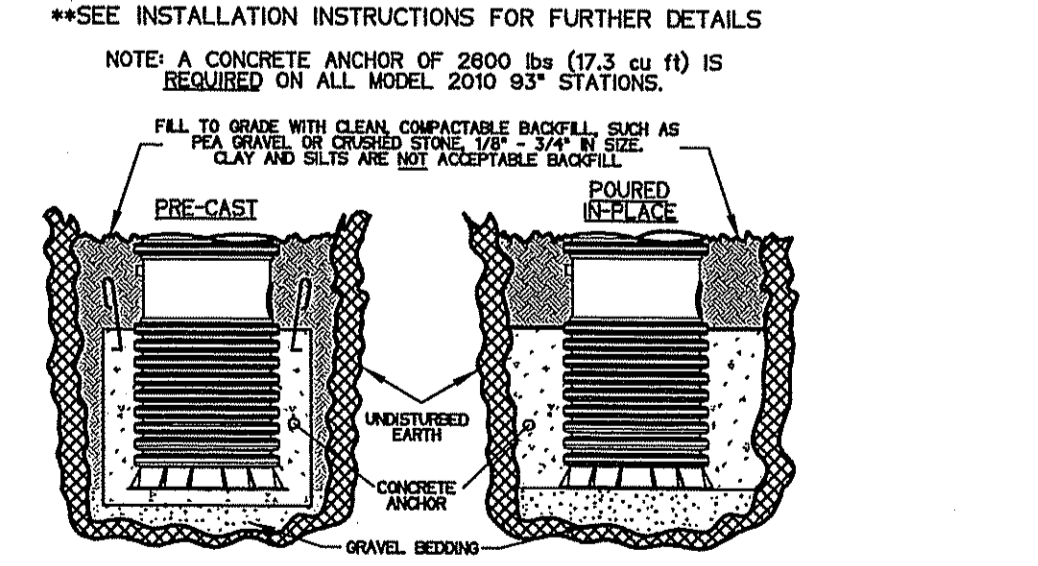
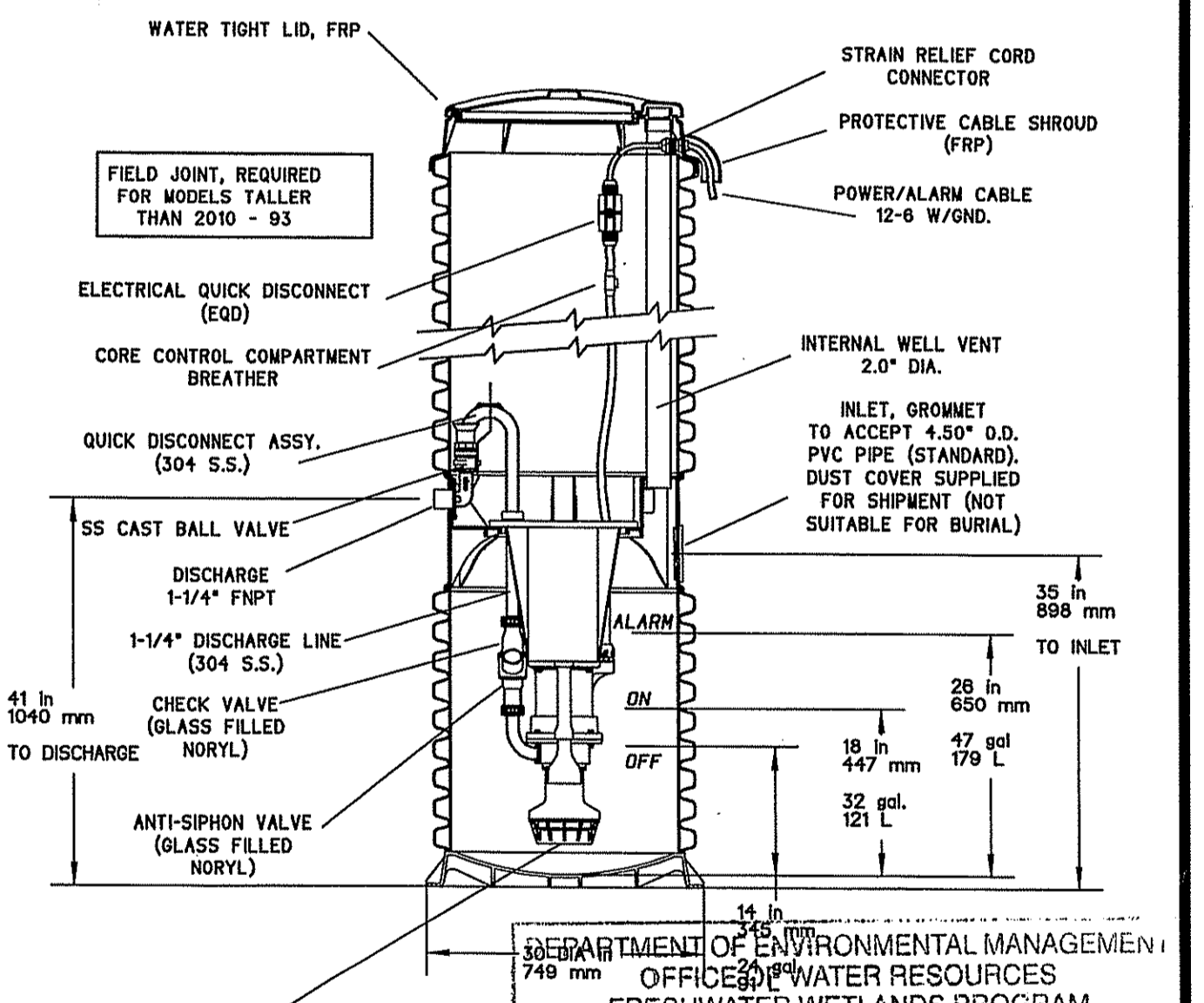
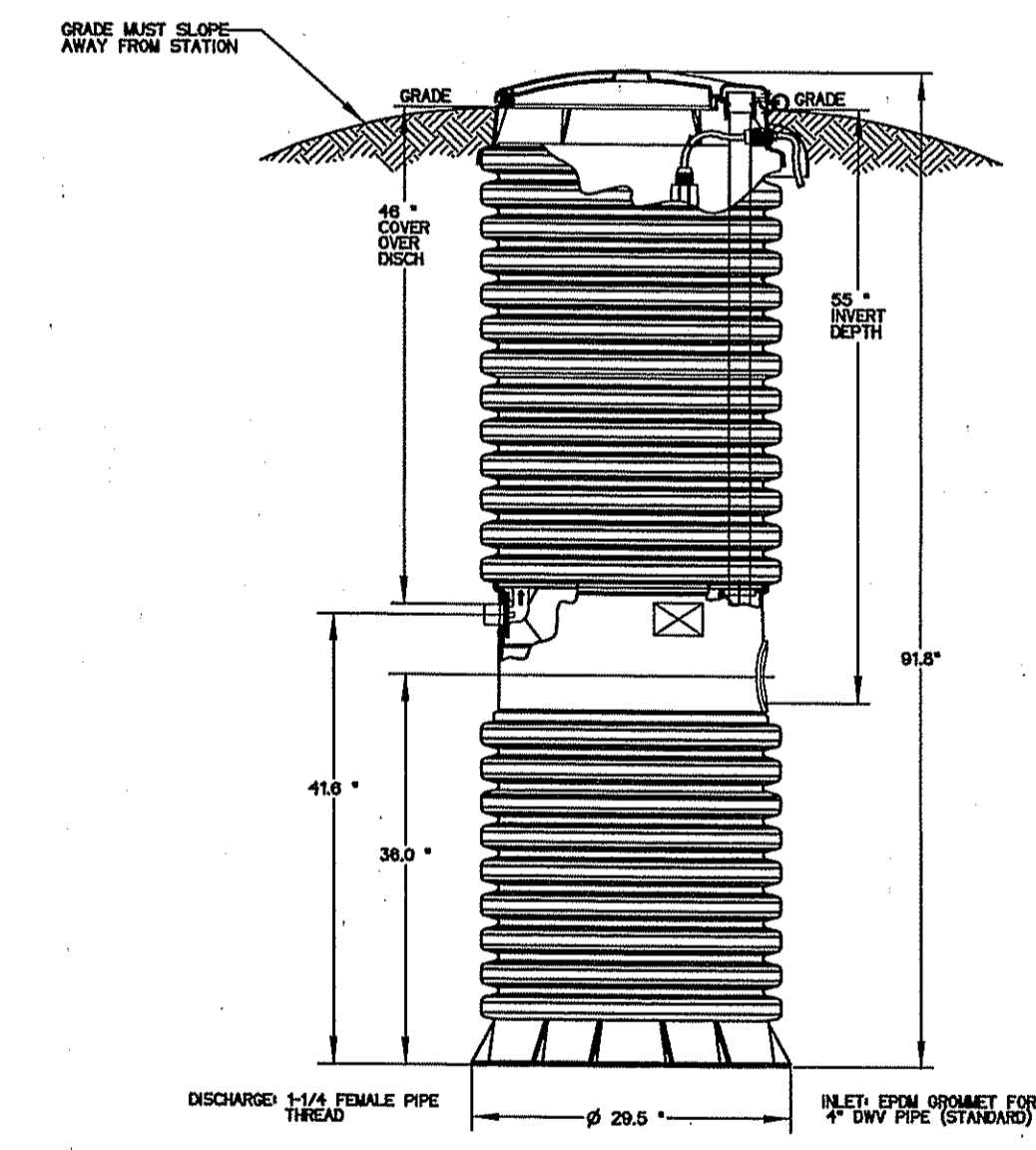
TYPICAL FLUSHING CONNECTION
NOT TO SCALE



TYPICAL ELEV. VIEW
TERMINAL FLUSHING MANHOLE
NOT TO SCALE



TYPICAL SEWER LATERAL INSTALLATION
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 4 2008 FILE # 07-0169
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE: A CONCRETE ANCHOR IS REQUIRED TO PREVENT TANK FROM FLOATING. SEE INSTALLATION INSTRUCTIONS OR SPECIFIC CUT SHEET FOR SIZE AND WEIGHT OF ANCHOR

01/16/07

E/ONE GRINDER PUMP MODEL 2010-93
NOT TO SCALE

No.	DATE	DESCRIPTION	BY
2.	11/16/07	REVISED PER RIDEM COMMENTS	LCB
1.	09/27/07	REVISED PER RIDEM COMMENTS	LCB

PROJ. MANAGER:	SMM
CHIEF DESIGNER:	LCB
REVIEWED BY:	DATE

SEAL

MICHAEL P. SOUSA
No. 5085
REGISTERED PROFESSIONAL ENGINEER

SCALE:	HORIZ.: AS NOTED
	VERT.:
DATUM:	HORIZ.:
	VERT.:
GRAPHIC SCALE	

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GOLD RUSH ESTATES
DETAIL SHEET No. 6

ASSESSOR'S PLAT NO. 17/LOT4

CUMBERLAND RHODE ISLAND

PROJ. No.: 20050997A10
DATE: APRIL 2007

C10.06
30 OF 30