

CONSTRUCTION PLANS

FOR

SITE DEVELOPMENT

SELF-STORAGE FACILITY

ASSESSOR'S PLAT 48, LOTS 4C and 5

GEORGE WASHINGTON HIGHWAY (ROUTE 116)

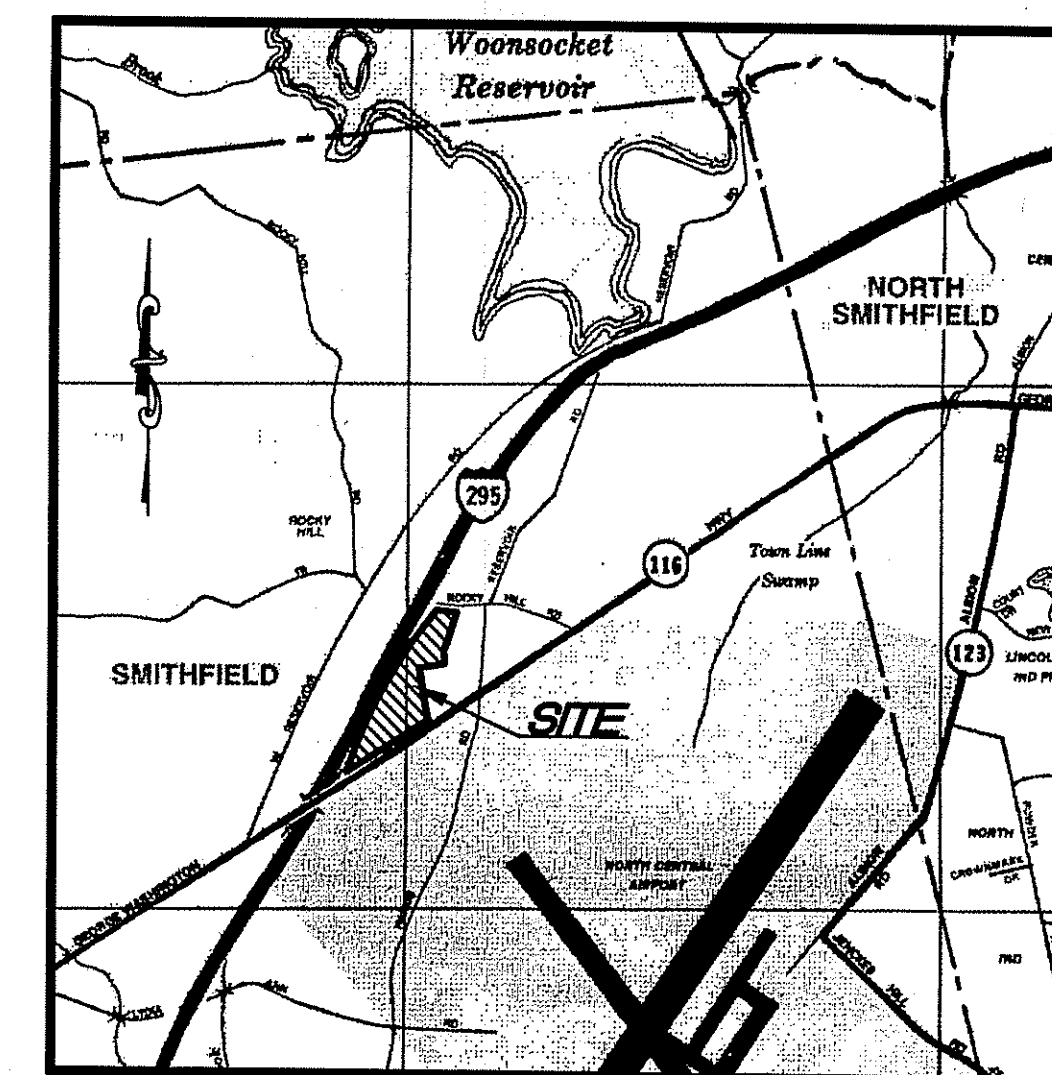
SMITHFIELD, RHODE ISLAND

PREPARED FOR

ALFRED COSTANTINO

C/O NORTHERN RHODE ISLAND SELF-STORAGE
 400 GEORGE WASHINGTON HIGHWAY
 SMITHFIELD, RI 02917

SEPTEMBER, 2002



LOCATION MAP
 NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 02 2004 FILE # 02-0430
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Signature of W. Wenech

DEC 4 2003

PREPARED BY
CAITO CORPORATION
 CIVIL ENGINEERS
 JOHN P. CAITO
 935 PHENIX AVENUE
 CRANSTON, RHODE ISLAND
 02921-1107
 401-946-0300
 fax: 401-944-6009
 LAND PLANNERS

JOHN P. CAITO
 No. 4398
 REGISTERED PROFESSIONAL ENGINEER

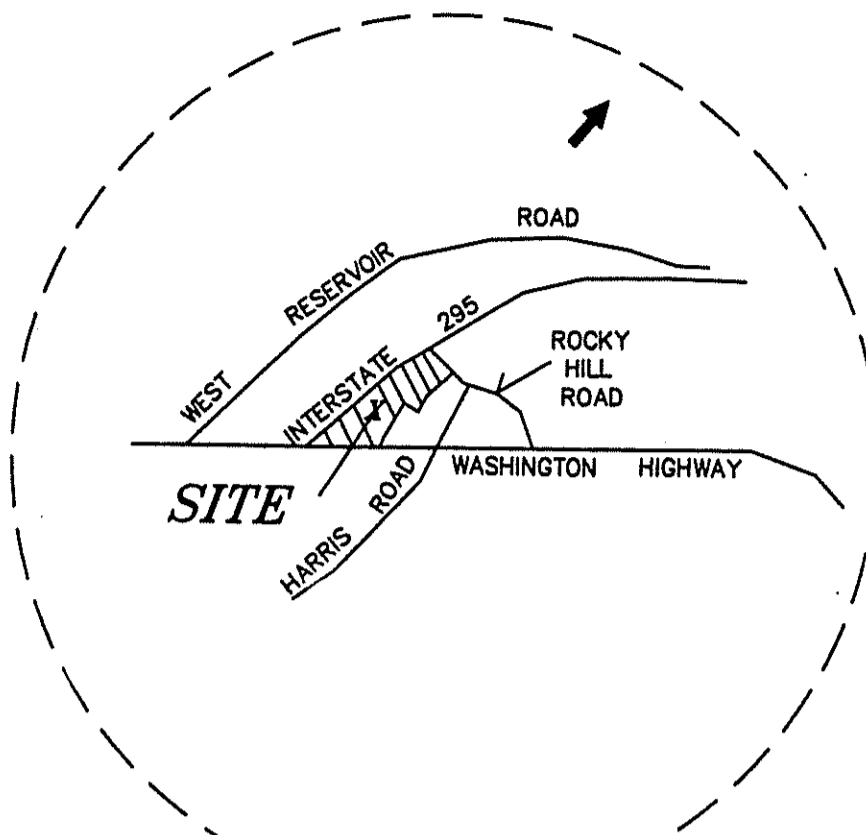
| NO. | DATE | SHEET | REVISION |
|-----|---------|---------------|---|
| 1 | 10/8/02 | 4, 5, 6 | GEOTEXTILE FABRIC AT FLARED END, EROSION CONTROL AND SOIL STABILIZATION PROGRAM NOTE 15, DRAINAGE, GRADING, BERM, NOTE & EXISTING UTILITIES |
| 2 | 12/3/03 | 2, 3, 4, 5, 6 | C AND D SERIES WETLAND FLAGS, ADJUST BASIN 5, GWTs, EMERGENCY SPILLWAY BASINS 2 AND 5 |

ZONE - HC
 MIN. LOT AREA = 60,000 S.F.
 MIN. FRONTAGE AND WIDTH = 300'
 MIN. FRONT YARD = 60'
 MIN. REAR YARD = 50'
 MIN. SIDE YARD = 40'
 (SEE REG.'S FOR ADDITIONAL INFO.)

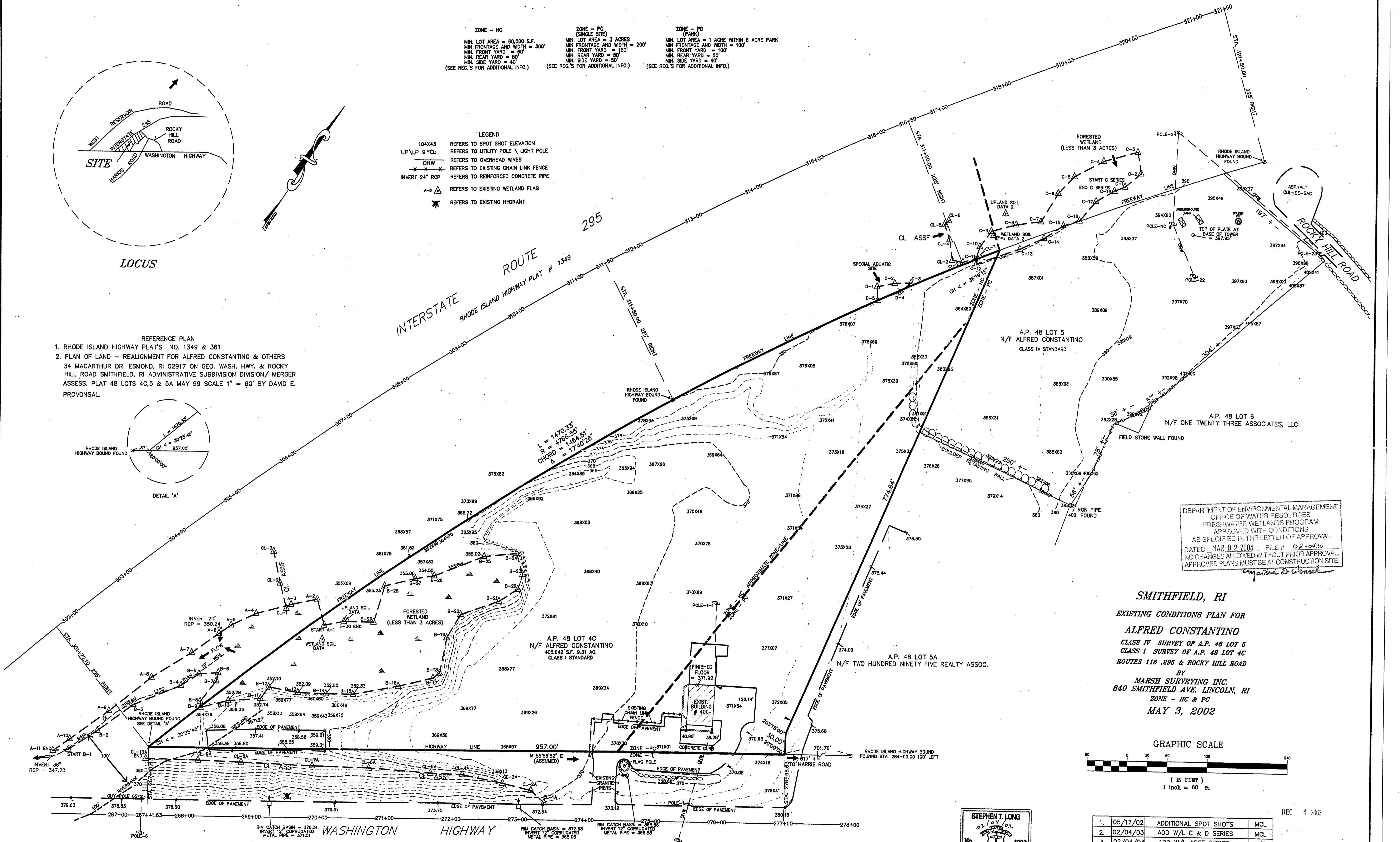
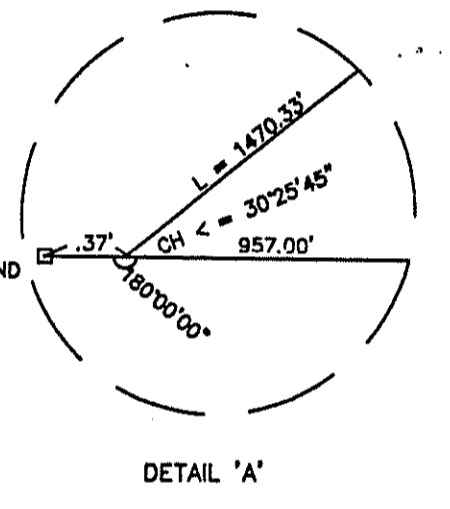
ZONE - PC
 (SINGLE SITE)
 MIN. LOT AREA = 3 ACRES
 MIN. FRONTAGE AND WIDTH = 200'
 MIN. FRONT YARD = 150'
 MIN. REAR YARD = 50'
 MIN. SIDE YARD = 50'
 (SEE REG.'S FOR ADDITIONAL INFO.)

ZONE - PC
 (PARK)
 MIN. LOT AREA = 1 ACRE WITHIN 6 ACRE PARK
 MIN. FRONTAGE AND WIDTH = 100'
 MIN. FRONT YARD = 100'
 MIN. REAR YARD = 50'
 MIN. SIDE YARD = 40'
 (SEE REG.'S FOR ADDITIONAL INFO.)

LEGEND
 104X43 REFERS TO SPOT SHOT ELEVATION
 UP \ LP 9 ° C REFERS TO UTILITY POLE \ LIGHT POLE
 OHW REFERS TO OVERHEAD WIRES
 X-X-X-X REFERS TO EXISTING CHAIN LINK FENCE
 INVERT 24" RCP REFERS TO REINFORCED CONCRETE PIPE
 A-B REFERS TO EXISTING WETLAND FLAG
 * REFERS TO EXISTING HYDRANT

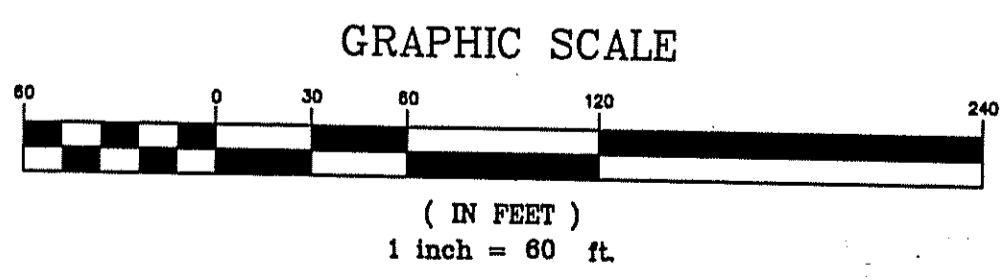


REFERENCE PLAN
 1. RHODE ISLAND HIGHWAY PLAT'S NO. 1349 & 361
 2. PLAN OF LAND - REALIGNMENT FOR ALFRED CONSTANTINO & OTHERS
 34 MACARTHUR DR. ESMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL ROAD SMITHFIELD, RI ADMINISTRATIVE SUBDIVISION DIVISION/ MERGER ASSESS. PLAT 48 LOTS 4C, 5 & 5A MAY 99 SCALE 1" = 60' BY DAVID E. PROVONSAL.



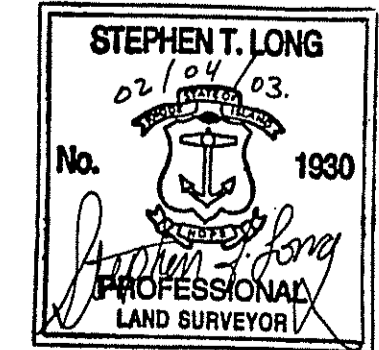
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 02 2004 FILE # 02-030
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

SMITHFIELD, RI
EXISTING CONDITIONS PLAN FOR
ALFRED CONSTANTINO
 CLASS IV SURVEY OF A.P. 48 LOT 5
 CLASS I SURVEY OF A.P. 48 LOT 4C
 ROUTES 116, 295 & ROCKY HILL ROAD
 BY
MARSH SURVEYING INC.
 840 SMITHFIELD AVE. LINCOLN, RI
 ZONE - HC & PC
MAY 3, 2002



THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
 HORIZONTAL: CLASS IV A.P. 48 LOT 5
 HORIZONTAL: CLASS I A.P. 48 LOT 4C
 TOPOGRAPHIC: CLASS III
 BY: *Stephen T. Long*
 REGISTERED PROFESSIONAL LAND SURVEYOR
 DATE: 02/04/03

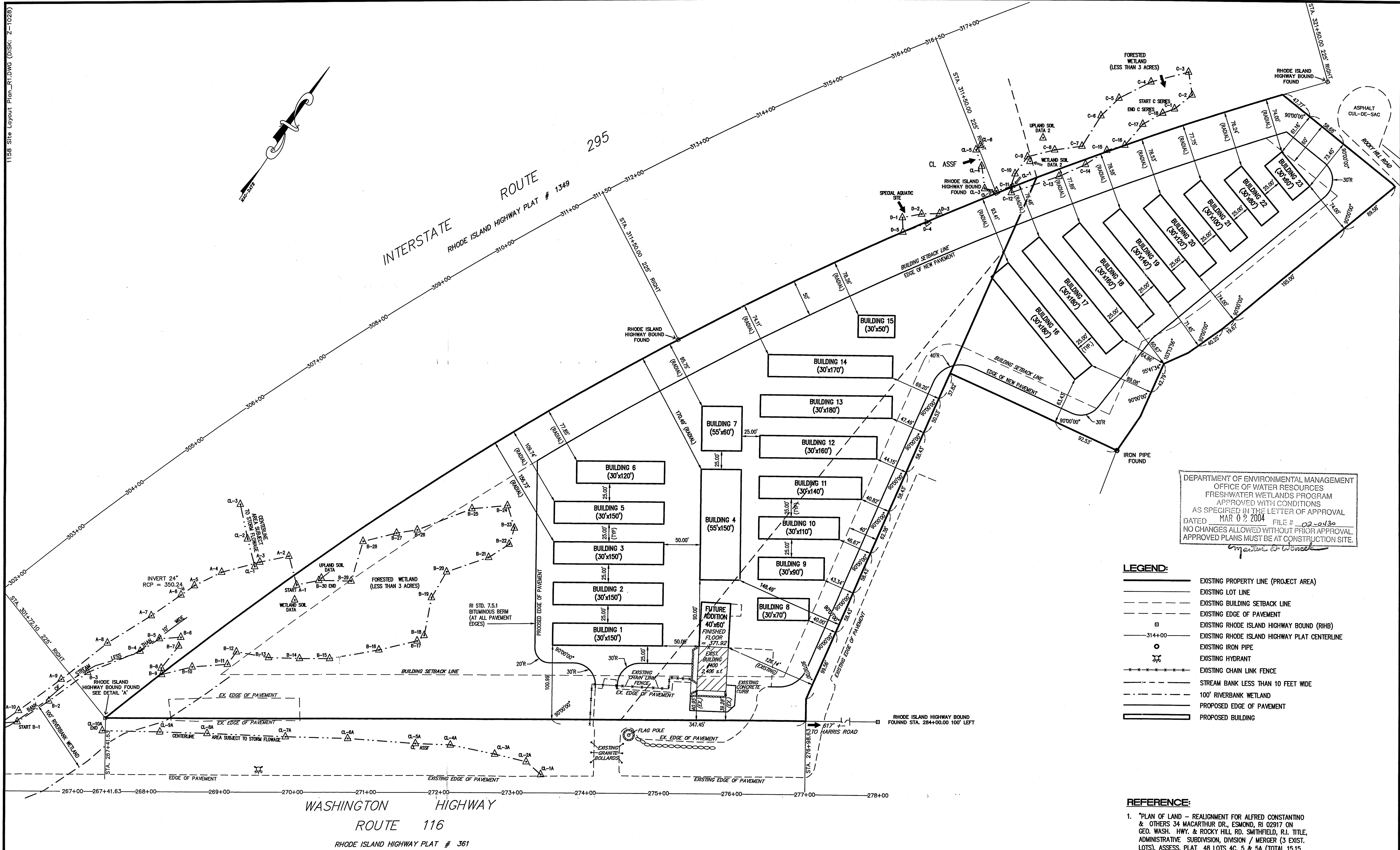
WASHINGTON HIGHWAY
 ROUTE 116
 RHODE ISLAND HIGHWAY PLAT # 361



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------|-----|
| 1. | 05/17/02 | ADDITIONAL SPOT SHOTS | MCL |
| 2. | 02/04/03 | ADD W/L C & D SERIES | MCL |
| 3. | 02/04/03 | ADD W/L ASSF SERIES | MCL |
| | | | |
| | | | |
| | | | |

DEC 4 2003

ROUTES 116 & 295
 ROCKY HILL ROAD



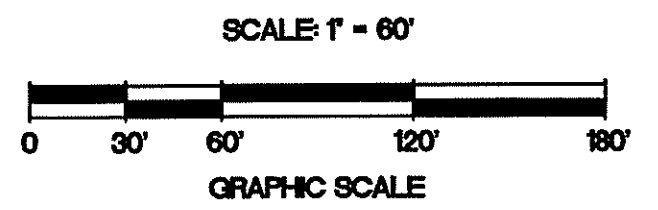
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 02 2004 FILE # 02-0430
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LEGEND:

| | |
|-----|---|
| --- | EXISTING PROPERTY LINE (PROJECT AREA) |
| --- | EXISTING LOT LINE |
| --- | EXISTING BUILDING SETBACK LINE |
| --- | EXISTING EDGE OF PAVEMENT |
| --- | EXISTING RHODE ISLAND HIGHWAY BOUND (RIHB) |
| --- | EXISTING RHODE ISLAND HIGHWAY PLAT CENTERLINE |
| --- | EXISTING IRON PIPE |
| --- | EXISTING HYDRANT |
| --- | EXISTING CHAIN LINK FENCE |
| --- | STREAM BANK LESS THAN 10 FEET WIDE |
| --- | 100' RIVERBANK WETLAND |
| --- | PROPOSED EDGE OF PAVEMENT |
| --- | PROPOSED BUILDING |

- REFERENCE:**
- "PLAN OF LAND - REALIGNMENT FOR ALFRED COSTANTINO & OTHERS 34 MACARTHUR DR., ESMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL RD. SMITHFIELD, RI. TITLE ADMINISTRATIVE SUBDIVISION / MERGER (3 EXIST. LOTS), ASSESS. PLAT 48 LOTS 4C, 5 & 5A (TOTAL 15.15 AC) DATE MAY 99 SCALE: 1" = 60' DRAWING NO. R-1 OF 1." PREPARED BY: DAVID E. PROVONSA, P.E. AND PETER V. CIPOLLA, JR. P.L.S. RECORDED ON JULY 13, 1999 IN PLAT BOOK 5, PAGE 2.
 - "SMITHFIELD, RI EXISTING CONDITIONS PLAN FOR ALFRED COSTANTINO, CLASS IV SURVEY OF A.P. 48 LOT 5, CLASS I SURVEY OF A.P. 48 LOT 4C, ROUTES 116, 295 & ROCKY HILL ROAD BY MARSH SURVEYING INC. 840 SMITHFIELD AVE. LINCOLN, RI, ZONE - HC & PC, MAY 3, 2002" SCALE: 1 INCH = 60 FT.
 - STATE REGULATED FRESH WATER WETLANDS ARE FLAGGED IN THE FIELD BY NATURAL RESOURCE SERVICES, INC. AND SURVEY LOCATED BY MARSH SURVEYING, INC.

DIMENSIONAL REGULATIONS:
 HC - HIGHWAY COMMERCIAL DISTRICT:
 MINIMUM FRONT YARD: 60 FT.
 MINIMUM SIDE YARD: 40 FT.
 MINIMUM REAR YARD: 50 FT.



| | | |
|-----|----------|----------------------------|
| NO. | DATE | REVISION |
| 1 | 12/25/03 | "C" AND "D" SERIES WETLAND |

JOHN P. COSTANTINO
 CIVIL ENGINEERS
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 GRANSTON, RHODE ISLAND 02931-1107
 401-946-0000
 Fax: 401-944-0009

Alto CORPORATION
 LAND PLANNERS

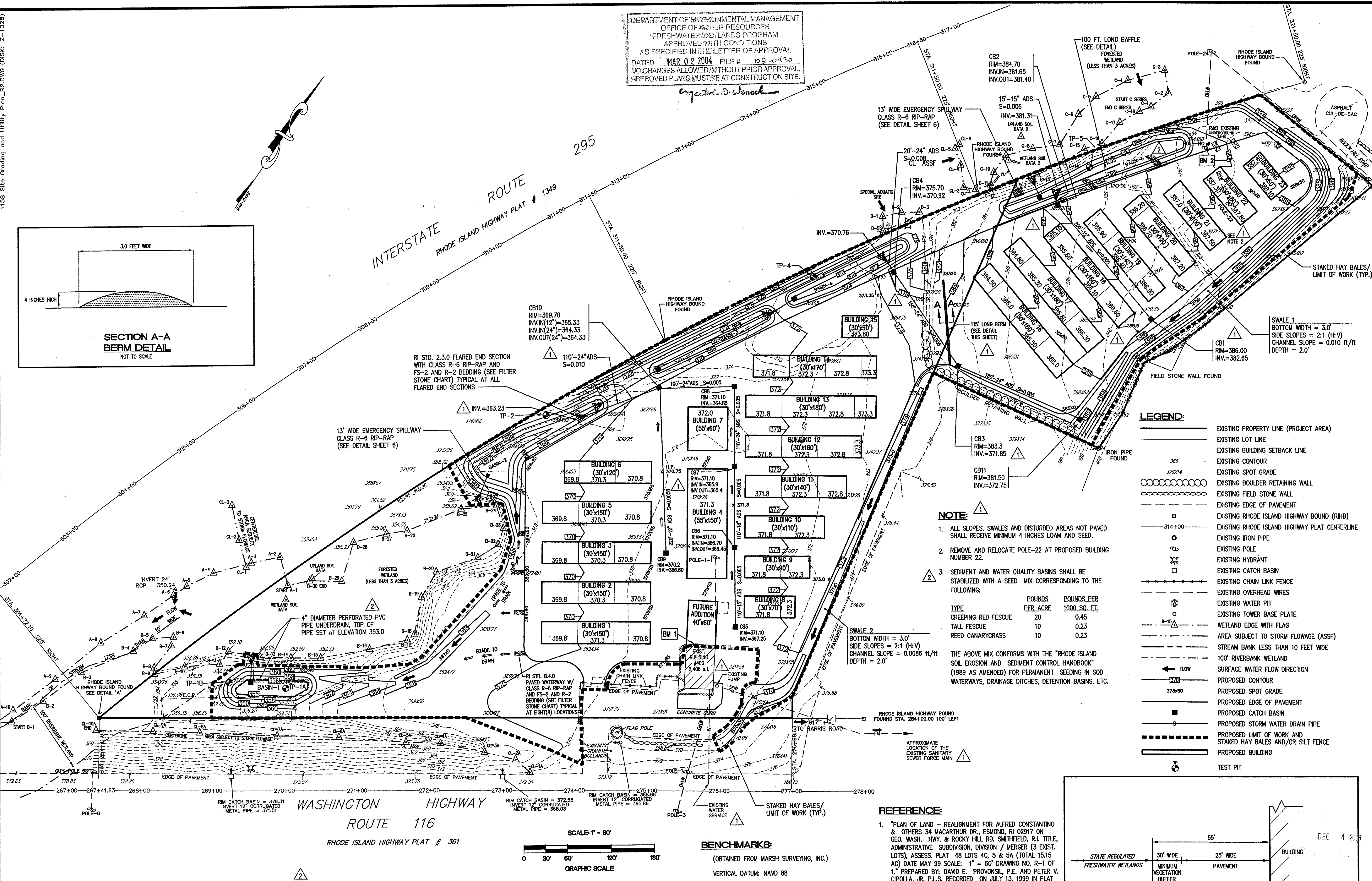
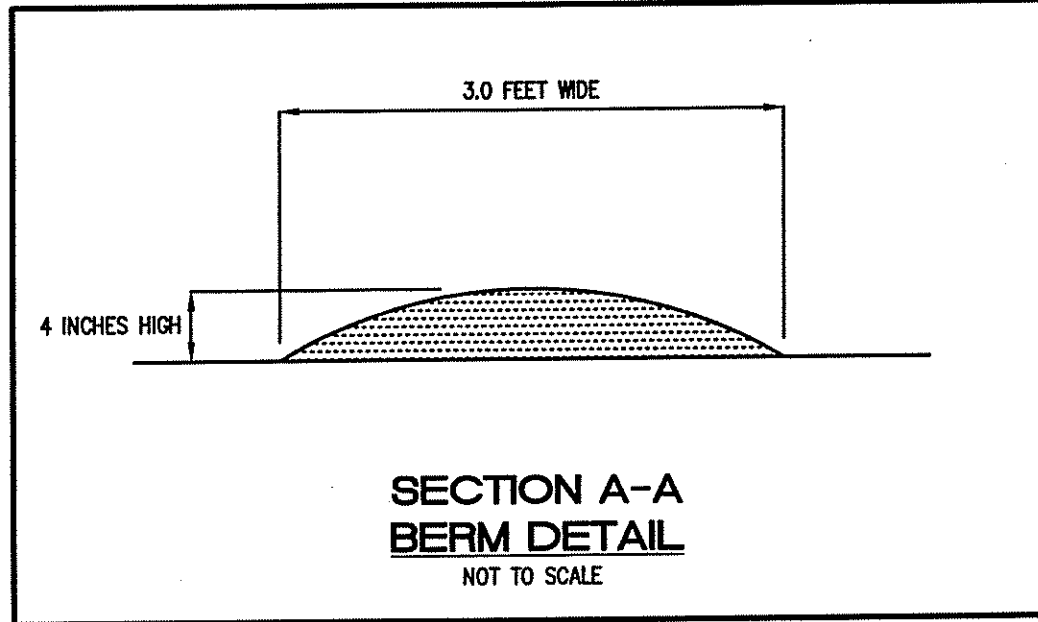
PROJECT NO: 026.1158
 DATE: SEPTEMBER 2002
 SCALE: 1" = 60'
 DESIGNED BY: P.J.B./S.G.T.
 DRAWN BY: P.J.B./S.G.T.
 CHECKED BY: J.P.C.

SITE LAYOUT PLAN
PROPOSED SELF STORAGE FACILITY
 ASSESSOR'S PLAT 48, LOTS 4C AND 5
 GEORGE WASHINGTON HIGHWAY (ROUTE 116)
 SMITHFIELD, RHODE ISLAND
 PREPARED FOR
ALFRED COSTANTINO

DRAWING NUMBER
3
 SHEET 3 OF 6

DEC 4 2003

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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LEGEND:

- EXISTING PROPERTY LINE (PROJECT AREA)
- EXISTING LOT LINE
- EXISTING BUILDING SETBACK LINE
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- EXISTING BOULDER RETAINING WALL
- EXISTING FIELD STONE WALL
- EXISTING EDGE OF PAVEMENT
- EXISTING RHODE ISLAND HIGHWAY BOUND (RIHB)
- EXISTING RHODE ISLAND HIGHWAY PLAT CENTERLINE
- EXISTING IRON PIPE
- EXISTING POLE
- EXISTING HYDRANT
- EXISTING CATCH BASIN
- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD WIRES
- EXISTING WATER PIT
- EXISTING TOWER BASE PLATE
- EXISTING WETLAND EDGE WITH FLAG
- AREA SUBJECT TO STORM FLOWAGE (ASSF)
- STREAM BANK LESS THAN 10 FEET WIDE
- 100' RIVERBANK WETLAND
- SURFACE WATER FLOW DIRECTION
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED CATCH BASIN
- PROPOSED STORM WATER DRAIN PIPE
- PROPOSED LIMIT OF WORK AND STAKED HAY BALES AND/OR SILT FENCE
- PROPOSED BUILDING
- TEST PIT

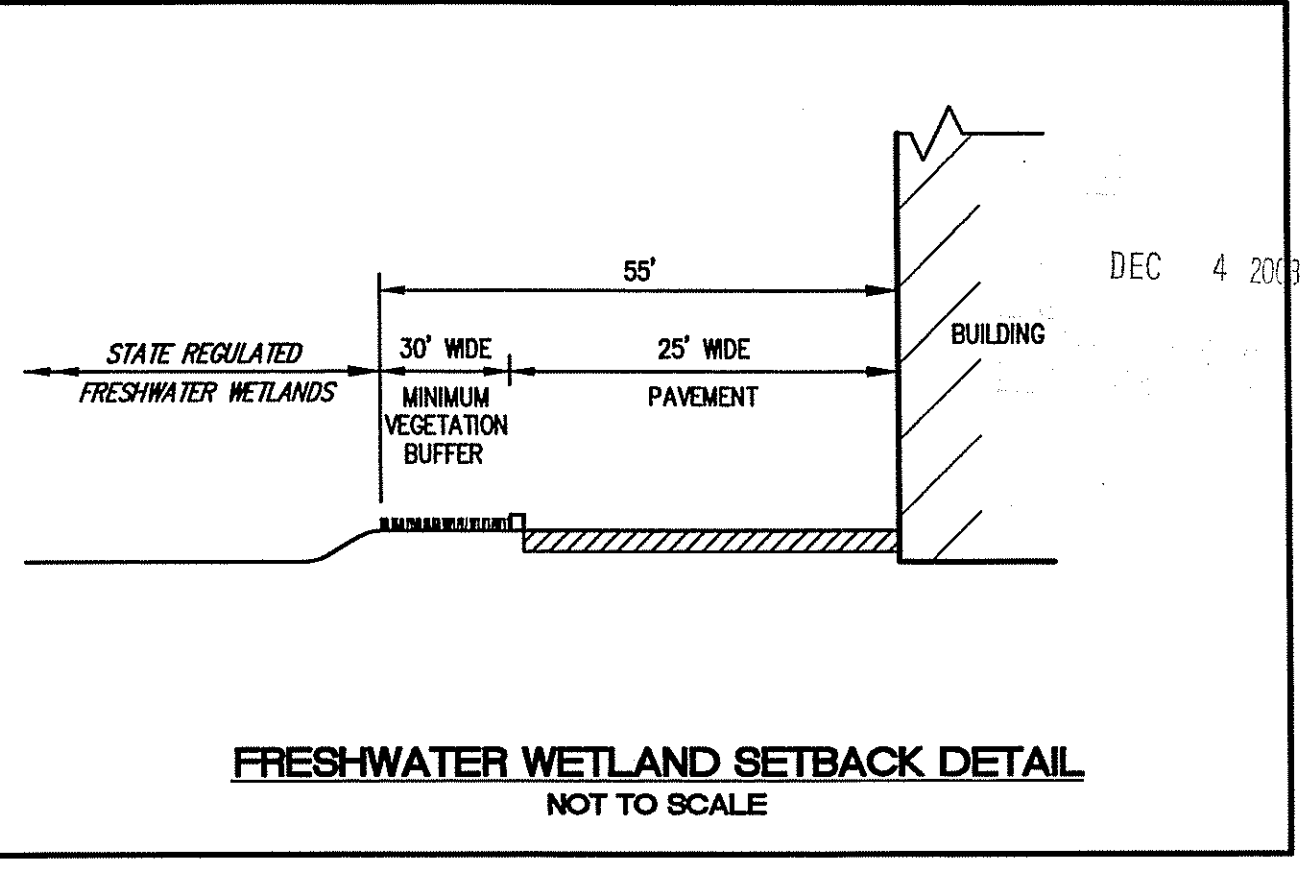
NOTE:

- ALL SLOPES, SWALES AND DISTURBED AREAS NOT PAVED SHALL RECEIVE MINIMUM 4 INCHES LOAM AND SEED.
- REMOVE AND RELOCATE POLE-22 AT PROPOSED BUILDING NUMBER 22.
- SEDIMENT AND WATER QUALITY BASINS SHALL BE STABILIZED WITH A SEED MIX CORRESPONDING TO THE FOLLOWING:

| TYPE | POUNDS PER ACRE | POUNDS PER 1000 SQ. FT. |
|---------------------|-----------------|-------------------------|
| CREeping RED FESCUE | 20 | 0.45 |
| TALL FESCUE | 10 | 0.23 |
| REED CANARYGRASS | 10 | 0.23 |

THE ABOVE MIX CONFORMS WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" (1989 AS AMENDED) FOR PERMANENT SEEDING IN SOD WATERWAYS, DRAINAGE DITCHES, DETENTION BASINS, ETC.

- REFERENCE:**
- "PLAN OF LAND - REALIGNMENT FOR ALFRED COSTANTINO & OTHERS 34 MACARTHUR DR., ESMOND, RI 02917 ON GEO. WASH. HWY. & ROCKY HILL RD, SMITHFIELD, R.I. TITLE, ADMINISTRATIVE SUBDIVISION, DIVISION / MERGER (3 EXIST. LOTS), ASSESS. PLAT 48 LOTS 4C, 5 & 5A (TOTAL 15.15 AC) DATE MAY 99 SCALE: 1" = 60' DRAWING NO. R-1 OF 1" PREPARED BY: DAVID E. PROVONSLI, P.E. AND PETER V. CIPOLLA, JR. P.L.S. RECORDED ON JULY 13, 1999 IN PLAT BOOK 5, PAGE 2.
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DETENTION BASIN GEOMETRY:

| BASIN | RIM ELEVATION | BOTTOM ELEVATION | GROUND WATER ELEVATION | SIDE SLOPES (H:V) |
|-------|---------------|------------------|------------------------|-------------------|
| 1 | 360 | 356 | 353.93 | 3:1 |
| 2 | 368 | 362 | LEDGE | 3:1 |
| 3 | 370 | 367 | LEDGE | 3:1 |
| 4 | 373 | 370 | LEDGE | 3:1 |
| 5 | 384 | 381 | 376.50 | 3:1 |

GROUNDWATER TABLE READINGS: (DATE: 04-16-03)

| TEST PIT (TP) | APPROXIMATE GROUND ELEVATION | DEPTH TO GWT (FT.) | GWT ELEVATION (FT.) |
|---------------|------------------------------|--------------------|---------------------|
| 1A | 359.43 | 5.5 | 353.93 |
| 1B | 358.13 | 6.5 | 351.63 |
| 2 | N/A EXPOSED LEDGE | N/A EXPOSED LEDGE | N/A EXPOSED LEDGE |
| 4 | N/A EXPOSED LEDGE | N/A EXPOSED LEDGE | N/A EXPOSED LEDGE |
| 5 | 387.0 | 10.5 | 376.50 |

BENCHMARKS:
 (OBTAINED FROM MARSH SURVEYING, INC.)
 VERTICAL DATUM: NAVD 88
 BM 1 EXISTING FINISH FLOOR ELEVATION=371.92
 BM 2 TOP OF PLATE AT BASE OF EXISTING TOWER ELEVATION=397.95

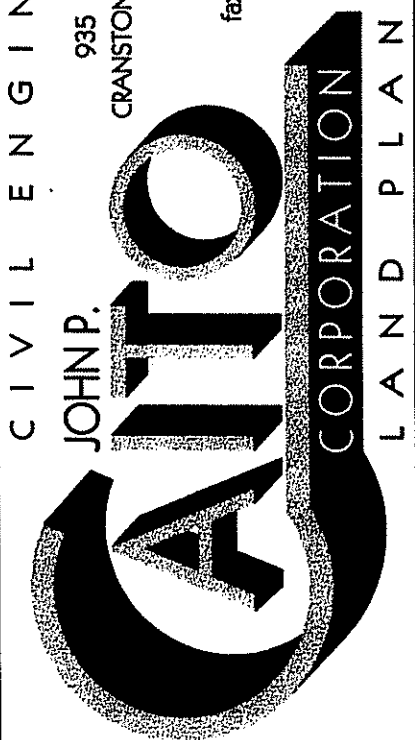
DIMENSIONAL REGULATIONS:
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 MINIMUM FRONT YARD: 60 FT.
 MINIMUM SIDE YARD: 40 FT.
 MINIMUM REAR YARD: 50 FT.

REVISION

| NO. | DATE | DESCRIPTION |
|-----|---------|---|
| 1 | 10/8/02 | DRAINAGE, GRADING, BERM, NOTE & EXISTING UTILITIES |
| 2 | 12/3/03 | C & D SERIES W.L.F.s, ADJUST BASIN 5 C.W.T.s, EMERGENCY SPILLWAY BASINS 2 & 5, SUBDRAIN BASIN 1, NOTE 3 |

JOHN P. CAITO
 No. 0286
 PROFESSIONAL ENGINEER

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 GRANSTON, RHODE ISLAND
 02951-1107
 401-946-0000
 Fax: 401-944-0009



PROJECT NO: 626158
 DATE: SEPTEMBER, 2002
 SCALE: 1" = 60'
 DESIGNED BY: P.J.B./S.G.T.
 DRAWN BY: P.J.B./S.G.T.
 CHECKED BY: J.P.C.

SITE GRADING AND UTILITY PLAN
PROPOSED SELF STORAGE FACILITY
 ASSESSOR'S PLAT 48, LOTS 4C AND 5
 GEORGE WASHINGTON HIGHWAY (ROUTE 116)
 SMITHFIELD, RHODE ISLAND

PREPARED FOR
ALFRED COSTANTINO
 DRAWING NUMBER
4
 SHEET 4 OF 6

1158-NOTES-DLS-R1.dwg (DISKZ=1029)

GENERAL NOTES:

- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1997 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 1997 REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. IN ADDITION, THE TOWN OF SMITHFIELD STANDARD SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
- ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL WRITTEN NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 24-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED FINAL CONSTRUCTION DRAWINGS AND THE TOWN SPECIFICATIONS.
- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-888-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND, THE FEDERAL GOVERNMENT, AND THE TOWN OF SMITHFIELD PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS IN ACCORDANCE WITH THE TOWN OF SMITHFIELD SOIL EROSION AND SEDIMENT CONTROL ORDINANCE.
- UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE ADS, N-12 HDPE PIPE.
- THE ENTIRE PROPERTY IS LOCATED WITHIN "ZONE X" AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN AS IDENTIFIED ON THE FOLLOWING MAP:
"NATIONAL FLOOD INSURANCE PROGRAM; FIRM, FLOOD INSURANCE RATE MAP; TOWN OF SMITHFIELD, RHODE ISLAND, PROVIDENCE COUNTY, PANEL 2 OF 9; COMMUNITY PANEL NUMBER 440025-0002-B; MAP DATED MARCH 4 1991; FEDERAL EMERGENCY MANAGEMENT AGENCY.
- ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
- FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST). FOR COMPACTION OF SUBGRADE.

EROSION CONTROL AND SOIL STABILIZATION PROGRAM:

- DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASONS.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND STANDARD SPECIFICATION M.20.01.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTIONS A AND B, AS AMENDED.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR, AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 15 - OCTOBER 15 AS INDICATED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 1989, CHAPTER FOUR, SECTIONS A AND B, AS AMENDED.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WETLANDS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCKPILES SHALL ALSO BE SEEDDED AND/OR STABILIZED, AND ALL STOCKPILES SHALL BE COMPLETELY ENCLOSED WITH SILTFENCE AND /OR STAKED HAYBALES.(SEE DETAIL)
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
- ALL PROPOSED PLANTINGS MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
- ALL PROPOSED PLANTINGS MUST BE MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL AND A LANDSCAPE PLAN IS TO BE SUBMITTED FOR APPROVAL TO THE MUNICIPAL ENGINEER.
- SHOULD ANY OR ALL OF THE PROPOSED PLANTS FAIL TO SURVIVE AT LEAST ONE (1) FULL GROWING SEASON FROM THE TIME THEY HAVE BEEN PLANTED, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR ONE (1) ADDITIONAL GROWING SEASON.
- ALL DISTURBED AREAS MUST BE SEEDDED OR PLANTED WITHIN THE CONSTRUCTION SEASON.
- TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
- ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDDED OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDDED.

SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORMWATER FLOWAGE.
- ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
 - THE INSTALLATION OF A CONTINUOUS LINE OF STAKED HAYBALES IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENTS FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
 - ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD HAY MULCH.
 - CATCH BASINS SHALL BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS ARE TO BE CLEANED IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
 - OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
 - ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.

STORM DRAINAGE SYSTEM MAINTENANCE PLAN:

THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ELEMENTS OF THE STORMWATER INFRASTRUCTURE PRIOR TO AND UPON COMPLETION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AND STORMWATER DRAINAGE SYSTEM. ALL CATCH BASINS AND STORM DRAIN PIPES SHALL BE CLEANED OF SEDIMENT. DETENTION BASINS AND GRASSED SWALES SHALL BE CLEANED OF SEDIMENT TO THE DESIGN GRADES INDICATED ON THE CONSTRUCTION DRAWINGS.

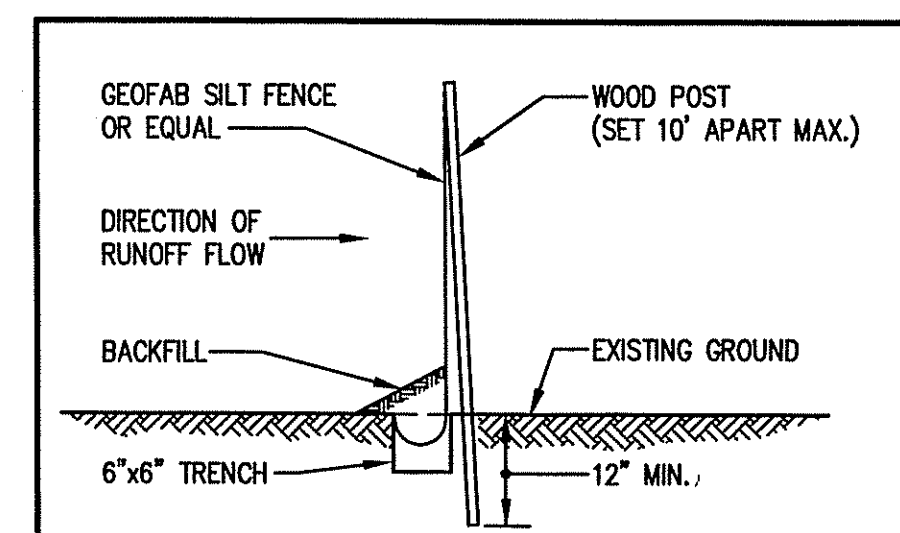
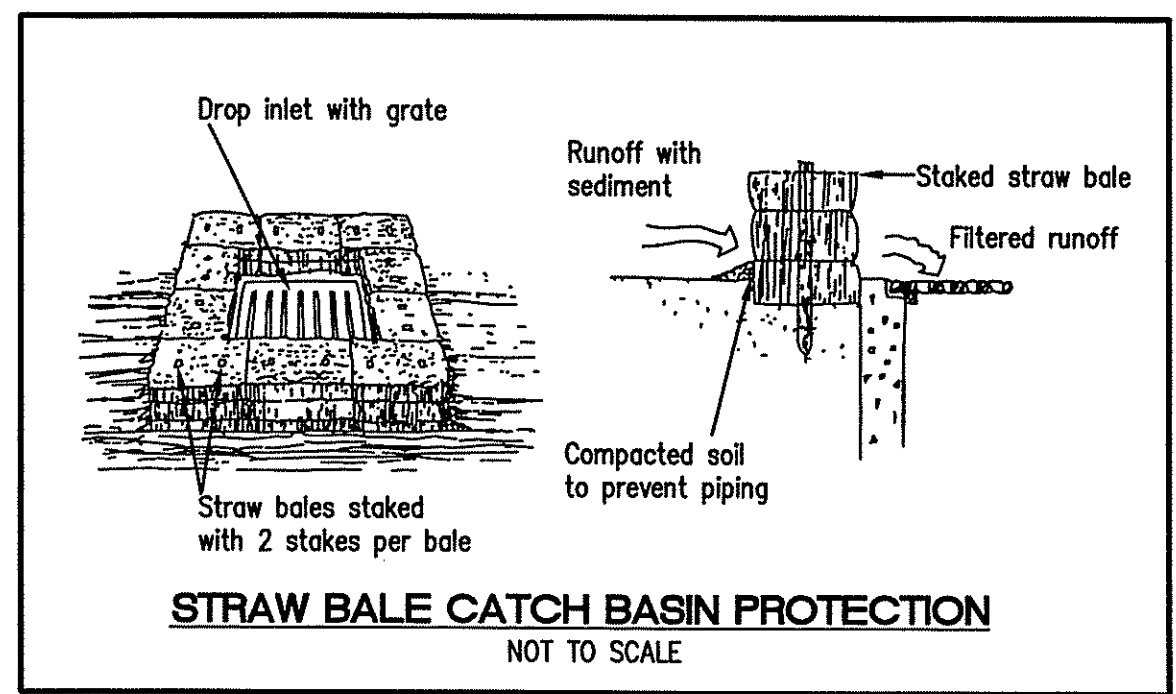
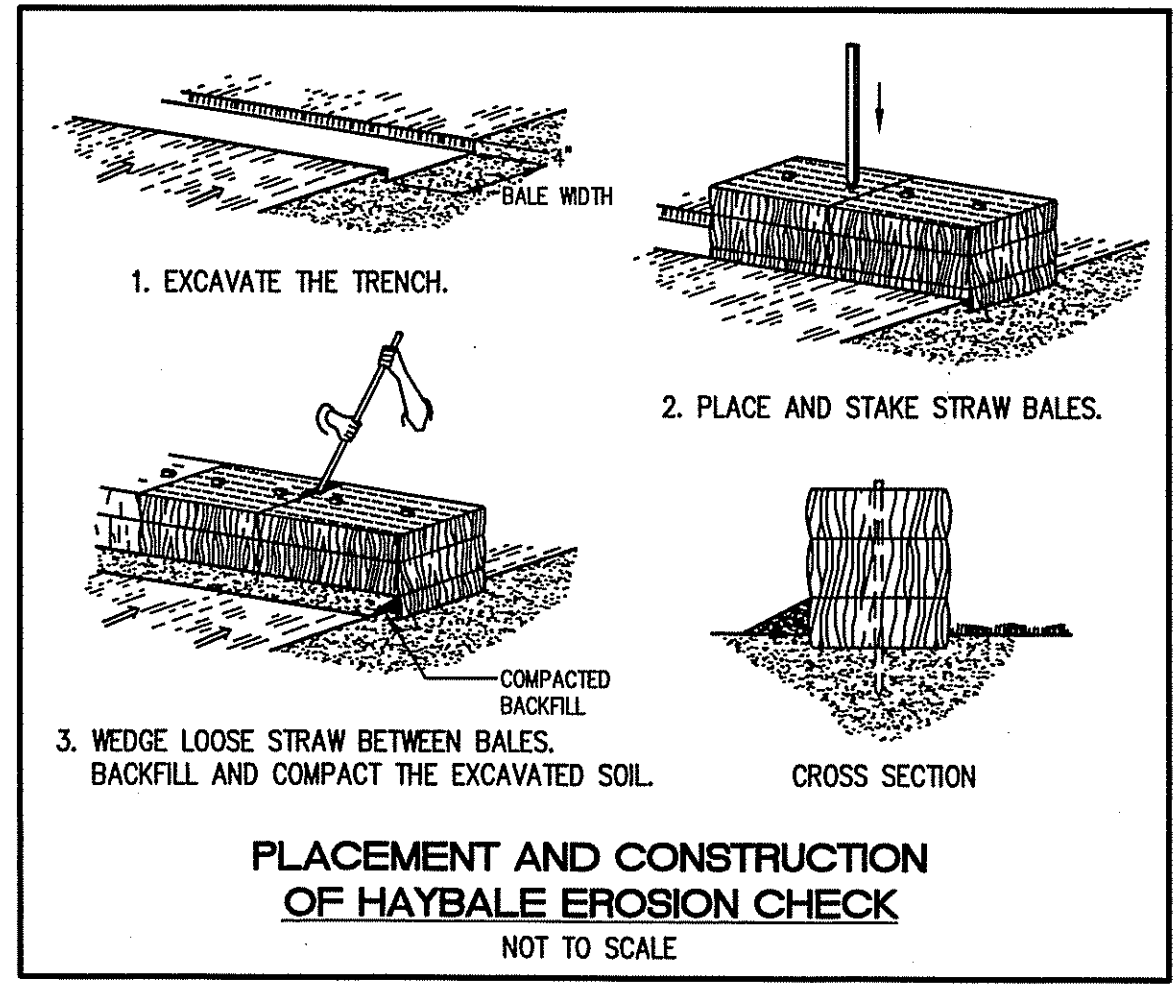
MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FOLLOWING REFERENCE:

- STATE OF RHODE ISLAND, STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL, SEPTEMBER 1, 1993, AS AMENDED.

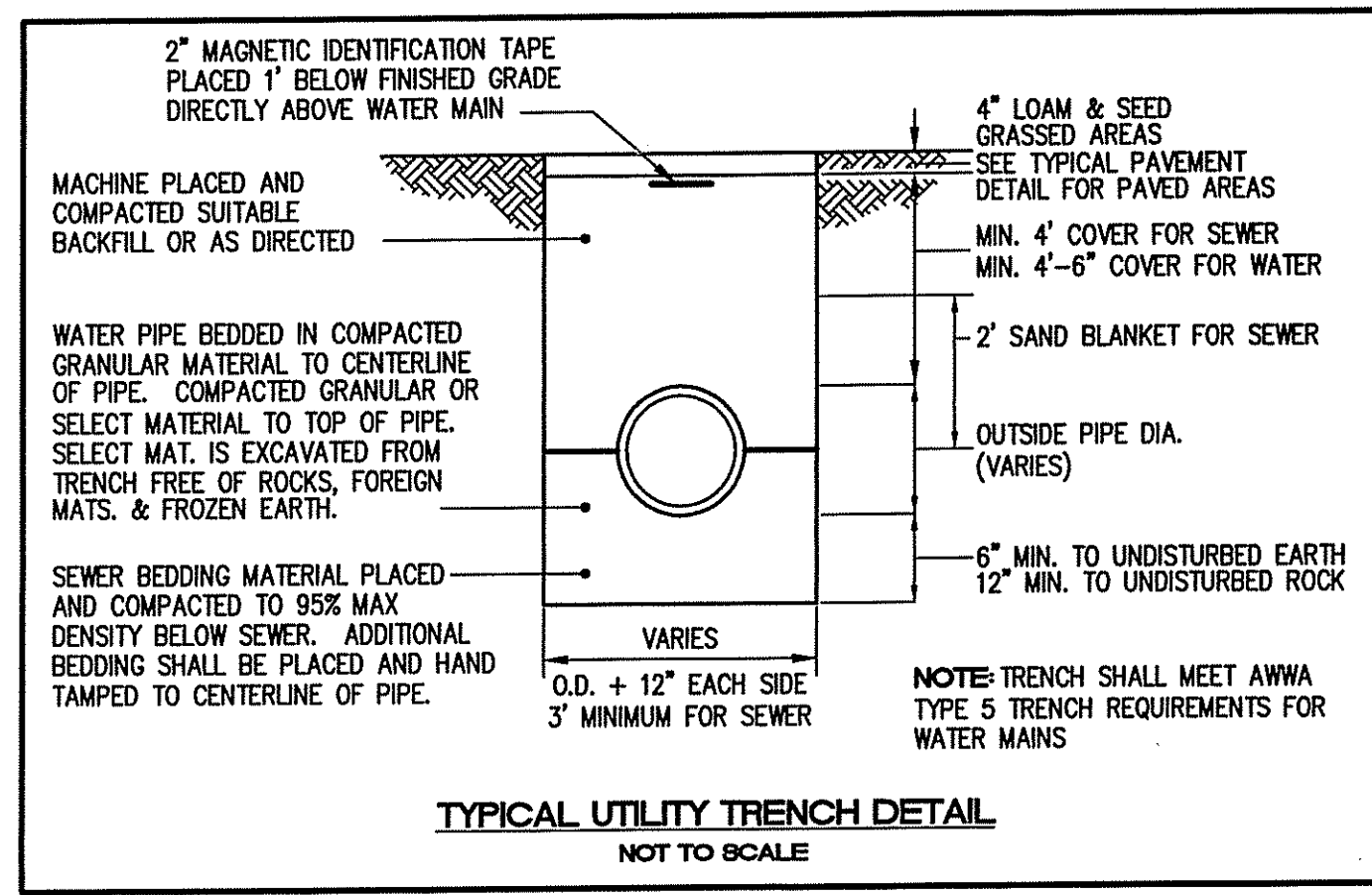
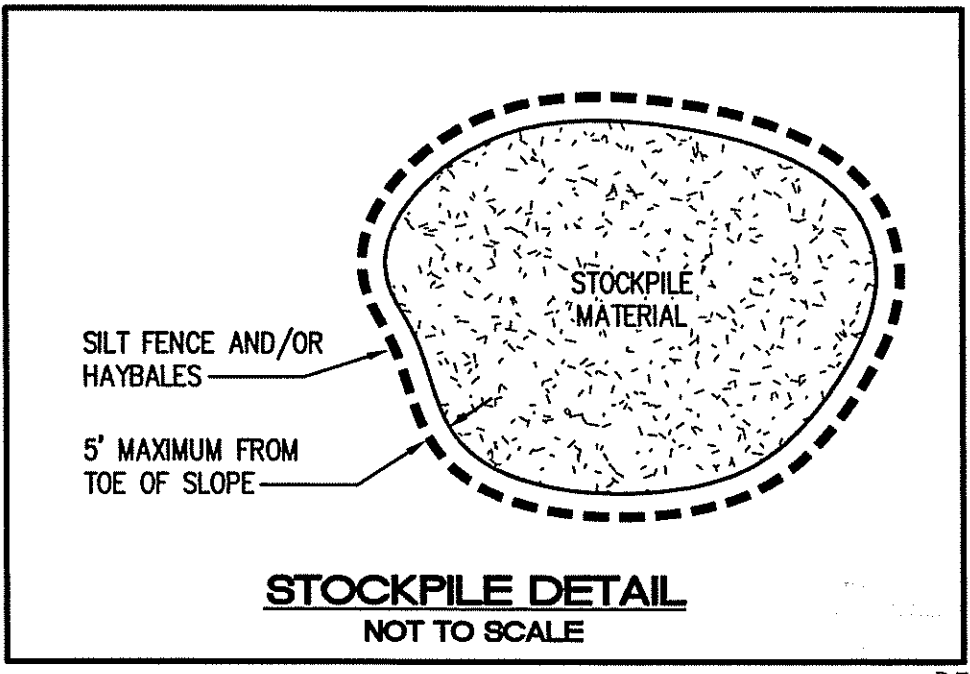
ADDITIONAL MAINTENANCE REQUIREMENTS:

THE FOLLOWING LIST OF MAINTENANCE TASKS AND FREQUENCIES MUST BE ADHERED TO IN ORDER TO INSURE A SUCCESSFUL LONG TERM OPERATION OF THE STORM DRAINAGE SYSTEM.

- DURING CONSTRUCTION ACTIVITIES ALL EROSION CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY FOUR (24) HOURS AFTER AN EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAIN IN A TWENTY FOUR (24) HOUR PERIOD.
- ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM ALL BASINS IMMEDIATELY AFTER SITE STABILIZATION.
- SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF THE GRASSED BASIN SHALL BE MOWED A MINIMUM OF TWICE PER YEAR.
- ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ALL STORMWATER INLET AND OUTLET STRUCTURES A MINIMUM OF TWICE PER YEAR. THESE STRUCTURES SHALL ALSO BE INSPECTED TWICE PER YEAR. INSPECTIONS SHALL BE PERFORMED SEVERAL TIMES WITHIN THE FIRST SIX MONTHS OF OPERATION.
- ACCUMULATED SEDIMENTS IN THE GRASSED BASINS SHALL BE REMOVED ONCE EVERY TWO (2) YEARS OR AT A TIME WHEN A BASIN'S AVAILABLE SEDIMENT STORAGE IS WITHIN 10% THE MAXIMUM SEDIMENT STORAGE CAPACITY, WHICH EVER OCCURS FIRST. ONCE THE DETENTION BASIN HAS BEEN CLEANED OF THE SEDIMENT IT SHALL BE RESTORED TO ITS ORIGINAL CAPACITY AND DESIGN DEPTH.
- THE GRASSED EMBANKMENT AREAS OF THE BASIN SHALL BE INSPECTED A MINIMUM OF TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE RESEEDDED IMMEDIATELY TO STABILIZE EXPOSED SOILS.
- INSPECTIONS OF ALL CATCH BASIN SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES OR ANY ELEMENT OF THE FACILITY SHALL BE DONE WITHIN THIRTY (30) DAYS OF RECEIPT OF ANY DEFICIENCY REPORTS ISSUED BY R.I.D.E.M. FRESHWATER WETLANDS SECTION. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT SHALL BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.



- INSTALLATION SEQUENCING:**
- DIG TRENCH 6" DEEP.
 - SET FENCE POST 10' APART MAX. AT SLIGHT ANGLE TOWARD RUNOFF DIRECTION.
 - ATTACH GEOFAB TO POST.
 - LOWER 6" OF GEOFAB IN TRENCH CURLED TOWARD RUNOFF DIRECTION & BACKFILL.
 - FENCE TO BE INSTALLED AS INDICATED ON THE SITE PLAN OR AS DIRECTED BY THE ENGINEER.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 02 2004 FILE # 02-0430
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Alfred Costantino

| NO. | DATE | REVISION |
|-----|---------|---|
| 1 | 10/2/02 | EROSION CONTROL AND SOIL STABILIZATION PROGRAM, NOTE 15 |
| 2 | 12/2/03 | UTILITY TRENCH DETAIL |

JOHN P. CATO
P.E.
PROFESSIONAL ENGINEER

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CRANSTON, RHODE ISLAND 02921-1107
401-946-0300
FAC 401-944-0009

Alto CORPORATION
LAND PLANNERS

PROJECT NO: 626.158
DATE: SEPTEMBER 2002
SCALE: AS NOTED
DESIGNED BY: P.J.B./S.G.T.
DRAWN BY: G.A.
CHECKED BY: J.P.C.

NOTES and DETAILS
SELF-STORAGE FACILITY
ASSESSORS PLAT 48, LOTS 4C, 5
GEORGE WASHINGTON HIGHWAY - ROUTE 116
SMITHFIELD
RHODE ISLAND
PREPARED FOR
ALFRED COSTANTINO

DRAWING NUMBER
5
SHEET 5 OF 6

