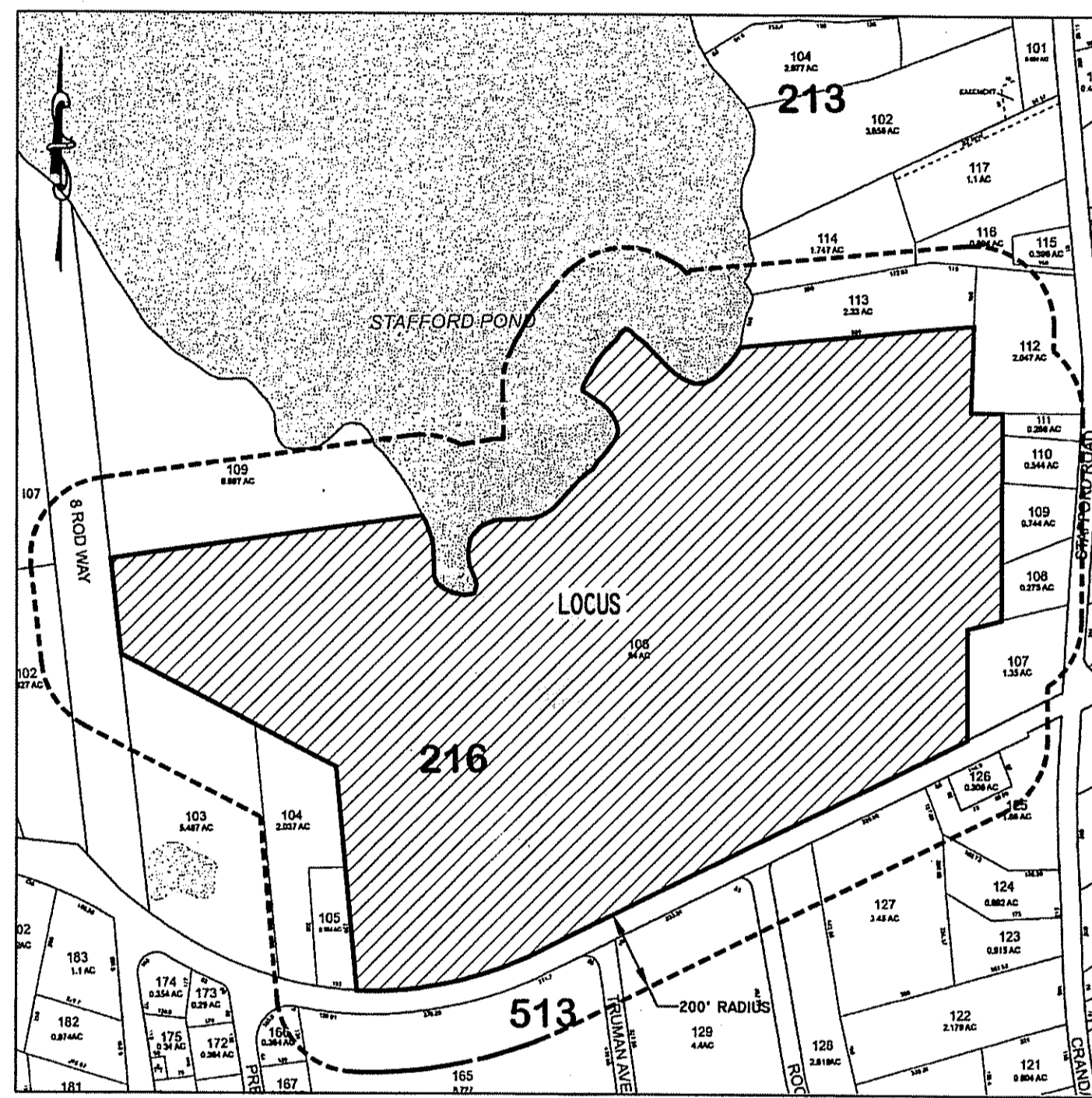


# R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN STAFFORD VIEW FARM

PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND

## SHEET INDEX

- SHEET 1 COVER SHEET
- SHEET 2 SURVEY PLAN WITH EXISTING CONDITIONS
- SHEET 3 LOT LAYOUT PLAN
- SHEET 4 GRADING, DRAINAGE & UTILITY PLAN
- SHEET 5 GRADING, DRAINAGE & UTILITY PLAN
- SHEET 6 GRADING, DRAINAGE & UTILITY PLAN
- SHEET 7 MADISON DRIVE PLAN & PROFILE
- SHEET 8 LUKE DRIVE PLAN & PROFILE
- SHEET 9 COMMON DRIVEWAY PLAN & PROFILE
- SHEET 10 DETAIL SHEET #1
- SHEET 11 DETAIL SHEET #2
- SHEET 12 DRAINAGE DETAIL SHEET #3
- SHEET 13 DRAINAGE DETAIL SHEET #4
- SHEET 14 SIDEWALK DETAIL SHEET #5
- SHEET 15 CONSTRUCTION EROSION & SEDIMENTATION CONTROL PLAN
- SHEET 16 STORMWATER MANAGEMENT SYSTEM PLAN
- SHEET 17 MAINTENANCE AND PROTECTION OF TRAFFIC PLAN

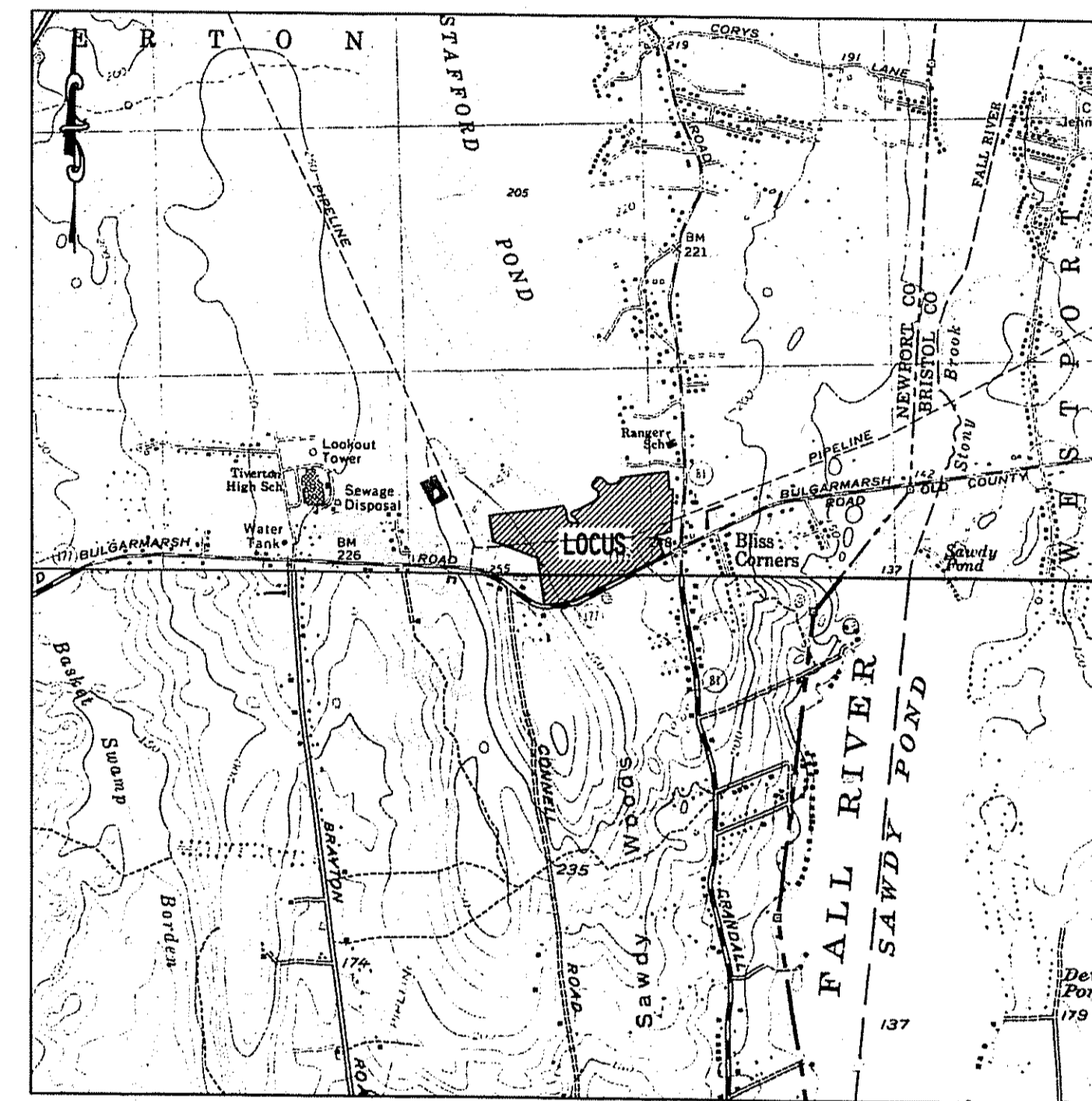


ASSESSORS PLAT 216  
NOT TO SCALE

### LIST OF ABUTTERS\*

#### WITHIN 200'

PLAT	LOT	OWNER	PLAT	LOT	OWNER
216	107	MARY ROACH & MARY LOU CLARKE 46 INDIAN HILL ROAD TIVERTON, RI 02878	216	103	WILLIAM & LORRAINE M. J. SYLVIA & MICHAEL SHARP 1288 BULGARMARSH ROAD TIVERTON, RI 02878
216	110	ARTHUR M. ST. LAURENT & JAMES EDWARD MELLO 1261 STAFFORD ROAD TIVERTON, RI 02878	216	104	LILLIAN M. & CHARLES A. BUCKLEY, TRUSTEES 1316 BULGARMARSH ROAD TIVERTON, RI 02878
216	111	HEATHER L. MASSEY 1257 STAFFORD ROAD TIVERTON, RI 02878	216	105	MARCIA NICKERSON 1314 BULGARMARSH ROAD TIVERTON, RI 02878
216	109	TIMOTHY & PAMELA BOUTILIER 1277 STAFFORD ROAD TIVERTON, RI 02878	513	125	CITIZENS-UNION SAVINGS BANK P.O. BOX 1311 FALL RIVER, MA 02720
216	108	AWASHONKS REALTY INC. 1041 OLD STAFFORD ROAD TIVERTON, RI 02878-0115	513	127, 128	TIVERTON LIBRARY REALTY, LLC. 238 HIGHLAND ROAD TIVERTON, RI 02878
216	112	DOROTHY E. DURFEE ET ALS 1229 STAFFORD ROAD TIVERTON, RI 02878	513	126	MAURICE H. & JOANNE FIOLA 286 EAST ROAD TIVERTON, RI 02878
216	113	VASCONCELLOS REAL ESTATE HOLDINGS, LLC. 270 ESTRELLITA DRIVE FORT MYERS BEACH, FL 33931-5208	513	165	CLAIRE C. GUIMOND 554 KING PHILIP STREET FALL RIVER, MA 02724
216	115	DONALD BOLLIN 25 RUSSELL DRIVE TIVERTON, RI 02878	513	129	TOWN OF TIVERTON 343 HIGHLAND ROAD TIVERTON, RI 02878
216	116	GEORGE S. & STACEY E. ALZAIBAK 63 STONEY HOLLOW ROAD TIVERTON, RI 02878	513	166	PETER P. & GENEVIEVE G. DAUPHIN REVOCABLE LIVING TRUST 12 PRESIDENTIAL DRIVE TIVERTON, RI 02878
216	114	PATRICK D. & CASSANDRA A. FITZGERALD 1221 STAFFORD ROAD TIVERTON, RI 02878	513	128	TIVERTON LIBRARY REALTY, LLC. 238 HIGHLAND ROAD TIVERTON, RI 02878
216	108, 109	STONE BRIDGE FIRE DISTRICT 1761 MAIN ROAD TIVERTON, RI 02878	513	124	JOSEPH E. & SUSAN P. FARIA 484 RISED ROAD DARTMOUTH, MA 02747



GEODETIC MAP  
1" = 2080'±

MAY - 7 2013

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 16 2012 FILE # 12-0050  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Holden*

OWNER/APPLICANT: HARKINS STAFFORD POND, LLC.  
1907 EAST MAIN ROAD  
PORTSMOUTH, RI 02871

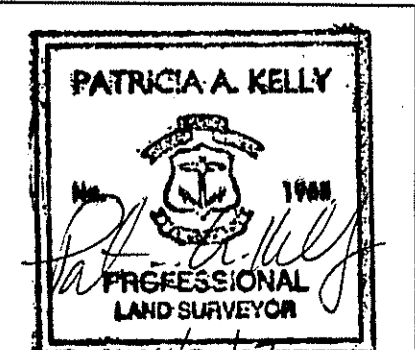
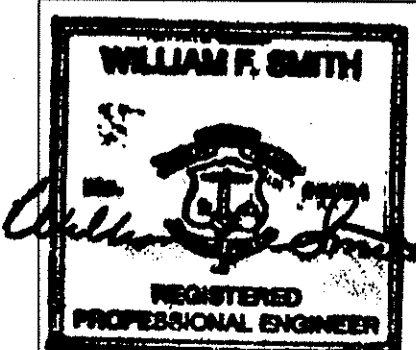
FOR PERMIT PURPOSES ONLY

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
PREPARED FOR  
**STAFFORD VIEW FARM**  
ASSESSORS PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 4, 2011

**Civil Engineering Concepts, Inc.**  
34A MAIN STREET P.O. BOX 5323  
LITTLE COMPTON, RI 02857 NEW BEDFORD, MA 02742  
PH: (401) 592-0177 (508) 990-4900  
FAX: (401) 592-0178 EMAIL: wsmithcec@aol.com

SHEET 1 of 17 JOB#: 10-120



REVISIONS:

#7: 04/21/13: REVISE SHEET TITLES
#6: 02/27/13: ADD SHEET 17
#5: 12/12/12: PER REVIEW COMMENTS
#4: 8/29/12: NO REVISIONS THIS SHEET
#3: 7/30/12: REVISE ASSESSOR'S DESIGNATION & 200' ABUTTERS LIST, ETC.
#2: 3/12/12: REVISE SHEET #'S, & OWNER INFO
#1: 2/9/12: ADD SHEETS TO PLAN SET

\* SOURCE: STATE OF RHODE ISLAND, TOWN OF TIVERTON ON-LINE PROPERTY VIEWER DATE: 12/31/2011

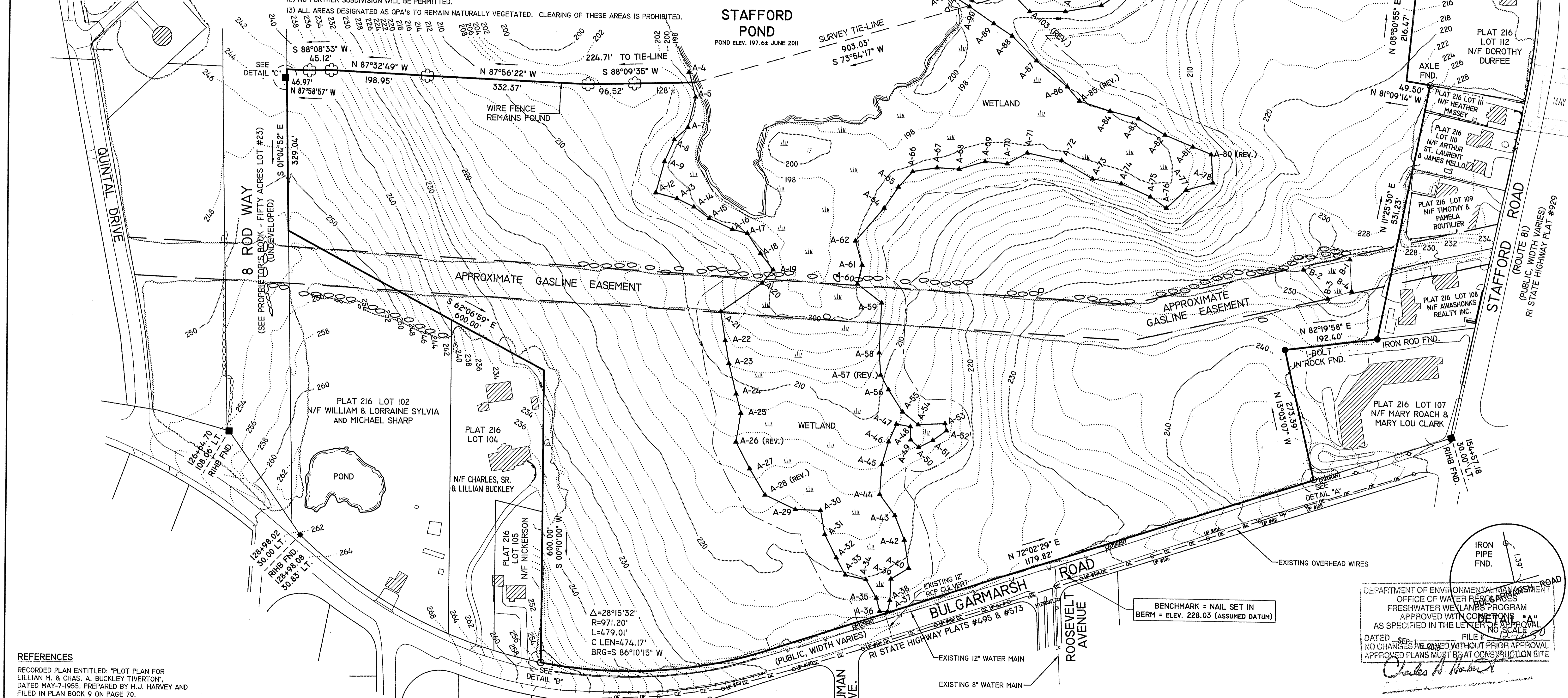
**NOTES:**

- OWNER: HARKINS STAFFORD POND, LLC.  
1907 EAST MAIN ROAD  
PORTSMOUTH, RI 02871
- APPLICANT: HARKINS STAFFORD POND, LLC.  
1907 EAST MAIN ROAD  
PORTSMOUTH, RI 02871
- ASSESSORS REFERENCE: PLAT 216 LOT 106
- TOTAL PARCEL AREA: 50.4 ACRES
- ZONING REQUIREMENTS:  
R-60  
MINIMUM FRONT YARD = 40 FEET  
MINIMUM SIDE YARD = 30 FEET  
MINIMUM REAR YARD = 60 FEET  
MINIMUM LOT AREA = 60,000 SF  
MINIMUM LOT WIDTH = 175 FEET  
R-60 RURAL RESIDENTIAL DEVELOPMENT  
MINIMUM FRONT YARD = 35 FEET  
MINIMUM SIDE YARD = 20 FEET  
MINIMUM REAR YARD = 35 FEET  
MINIMUM LOT AREA = 25,000 SF  
MINIMUM LOT WIDTH = 120 FEET  
WATERSHED PROTECTION OVERLAY DISTRICT  
MAXIMUM IMPERVIOUS COVER = 10%  
REFER TO ARTICLE VIII SECTION 3 FOR PERMITTED PROHIBITED USES.

- THE SITE IS DEPICTED ON THE NATIONAL FLOOD INSURANCE PROGRAM FIRM (FLOOD INSURANCE RATE MAP) TOWN OF TIVERTON, NEWPORT COUNTY COMMUNITY PANEL NUMBER 44005C00 44H (PANEL NOT PRINTED) IN A NO SPECIAL FLOOD HAZARD AREA.
- THE ENTIRE SITE IS WOODED WITH THE EXCEPTION OF THE ALGONQUIN GAS TRANSMISSION EASEMENT.
- THE SITE IS LOCATED ENTIRELY WITHIN THE STAFFORD POND WATERSHED.
- TOWN WATER IS AVAILABLE FOR SERVICE TO THE SITE ALONG BULGARMARSH ROAD. OVERHEAD ELECTRIC, TELEPHONE, AND CATV ARE AVAILABLE TO SERVICE THE SITE ALONG BULGARMARSH ROAD. THE PROPOSED LOTS WILL BE SERVICED BY INDIVIDUAL OWT'S.
- DENSITY CALCULATIONS:  
WITHIN STAFFORD POND WATERSHED (1 UNIT PER 3 ACRES)  
TOTAL PARCEL AREA = 50.415 ACRES = 16.8 UNITS OR 16 UNITS  
3 ACRES = # UNITS ALLOWED 3 ACRES
- PROPOSED DENSITY = 16 MARKET RATE R-60 RURAL SUBDIVISION LOTS
- OPEN SPACE CALCULATION:  
TOTAL PARCEL SUITABLE AREA = 1,251,291 SF ±  
(EXCLUDES PROPOSED ROADS, SIDEWALK PARCELS & EASEMENTS)  
50% OF TOTAL PARCEL SUITABLE OPEN SPACE = 625,646 SF ±  
TOTAL SUITABLE OPEN SPACE PROVIDED = 735,802 SF ± (58% ±)
- WETLAND EDGE VERIFICATION WITH RIDEM HAS BEEN MODIFIED TO REFLECT CHANGES REQUESTED BY RIDEM (APPLICATION #12-0050).
- NO FURTHER SUBDIVISION WILL BE PERMITTED.
- ALL AREAS DESIGNATED AS OPA'S TO REMAIN NATURALLY VEGETATED. CLEARING OF THESE AREAS IS PROHIBITED.

**LOT AREA TABLE**

PROPOSED LOT	TOTAL AREA	SUITABLE AREA	UNSUITABLE AREA
LOT 1	38,338 SF ±	38,338 SF ±	0 SF ±
LOT 2	33,710 SF ±	33,710 SF ±	0 SF ±
LOT 3	25,132 SF ±	25,132 SF ±	0 SF ±
LOT 4	67,803 SF ±	53,929 SF ±	13,874 SF ± (GAS EASEMENT)
LOT 5	36,938 SF ±	36,938 SF ±	20,361 SF ± (COMMON DRIVEWAY EASEMENT)
LOT 6	28,717 SF ±	28,717 SF ±	3,770 SF ± (DRAINAGE EASEMENT)
LOT 7	39,787 SF ±	29,848 SF ±	9,939 SF ± (GAS EASEMENT)
LOT 8	36,453 SF ±	36,453 SF ±	0 SF ±
LOT 9	29,616 SF ±	29,616 SF ±	0 SF ±
LOT 10	25,164 SF ±	25,164 SF ±	0 SF ±
LOT 11	25,301 SF ±	25,301 SF ±	0 SF ±
LOT 12	26,780 SF ±	26,780 SF ±	0 SF ±
LOT 13	29,266 SF ±	29,266 SF ±	0 SF ±
LOT 14	25,445 SF ±	25,445 SF ±	0 SF ±
LOT 15	37,837 SF ±	37,837 SF ±	0 SF ±
LOT 16	36,968 SF ±	36,968 SF ±	0 SF ±
OPEN SPACE #1	116,553 SF ±	89,111 SF ±	27,442 SF ± (GAS EASEMENT)
OPEN SPACE #2	1,388,656 SF ±	593,221 SF ±	795,435 SF ± (GAS EASEMENT, 50' PERIMETER WETLAND, WETLAND, & DRAINAGE EASEMENT)
OPEN SPACE #3	64,937 SF ±	53,470 SF ±	11,467 SF ± (VIEW EASEMENT)



**REFERENCES**

RECORDED PLAN ENTITLED: "PLOT PLAN FOR LILLIAN M. & CHAS. A. BUCKLEY TIVERTON", DATED MAY-7-1955, PREPARED BY H.J. HARVEY AND FILED IN PLAN BOOK 9 ON PAGE 70.

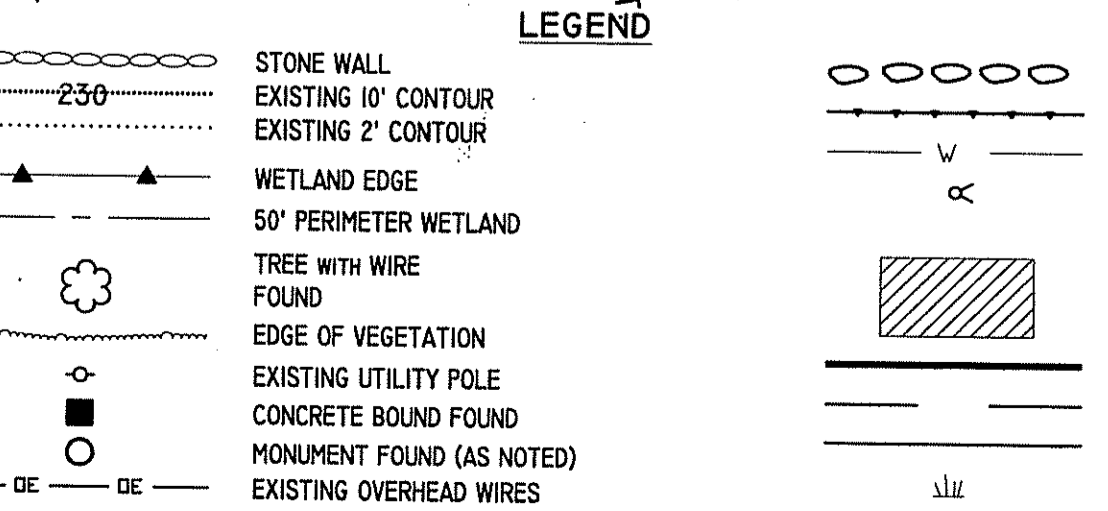
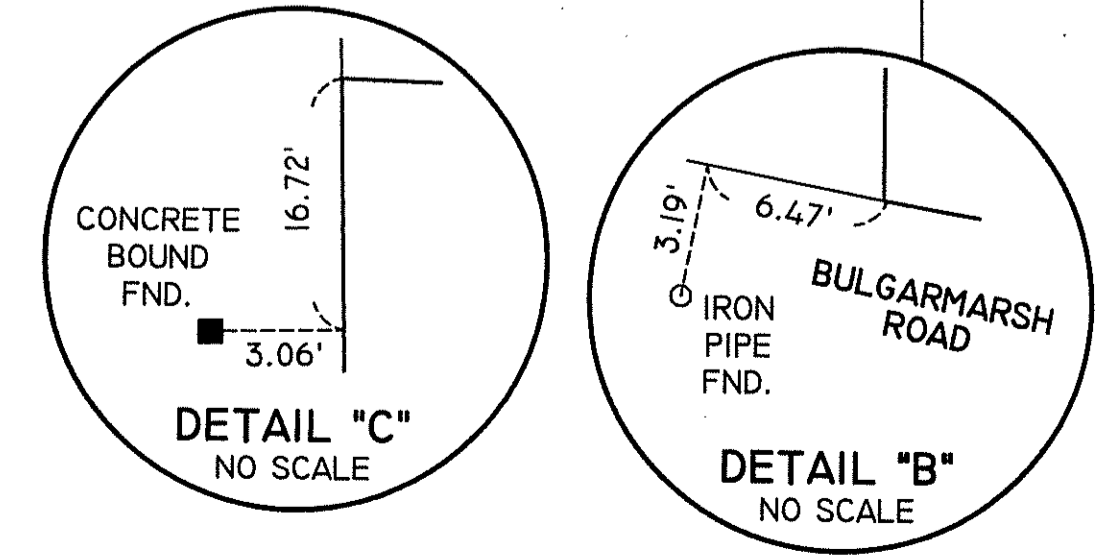
RECORDED PLAN ENTITLED: "LAND OF LILLIAN M. & CHARLES BUCKLEY LOCATION BULGARMARSH ROAD TIVERTON, R.I.", DATED MAY 13, 1974, PREPARED BY JAMES P. AMARANTES AND FILED IN PLAN BOOK 14 ON PAGE 15.

RECORDED PLAN ENTITLED: "LAND OF ARTHUR J. & FLORENCE J. ST. LAURENT STAFFORD ROAD (W SIDE) TIVERTON, R.I.", REV. DATED JAN. 16, 1980, PREPARED BY JAMES P. AMARANTES AND FILED IN PLAN BOOK 15 ON PAGE 73.

RECORDED PLAN ENTITLED: "PLAN OF LAND OF IMELDA DURFEE STAFFORD ROAD TIVERTON, R.I.", REVISION DATED 9-19-79, PREPARED BY MALCOLM E. BARRETT, P.E. AND FILED IN PLAN BOOK 15 ON PAGE 61.

UNRECORDED PLAN ENTITLED: "PLAN OF LAND OF TIVERTON REALTY TRUST", DATED 03 FEB 95, PREPARED BY DANSON SURVEYING & ENGINEERING CO.

RHODE ISLAND STATE HIGHWAY PLATS #495 & #573.

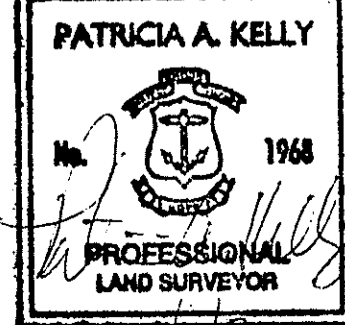


**CERTIFICATION**

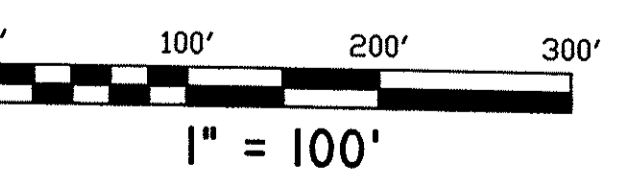
THIS PLAN AND SURVEY CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BOUNDARY CLASS I  
TOPOGRAPHIC CLASS III

*Patricia A. Kelly*  
PATRICIA A. KELLY, PLS #1968



#7: 04/21/13: PER REVIEW COMMENTS
#6: 02/27/13: REVISION SHEETS, REV NOTE #10 & AREA TABLE
#5: 12/12/12: PER REVIEW COMMENTS, REVISION SHEETS
#4: 8/22/12: NO REVISIONS THIS SHEET
#3: 7/30/12: PER REVIEW COMMENTS
#2: 3/12/12: ADD NOTES, REVISE SHEET #S
#1: 2/09/12: REVISE WETLAND EDGE PER RIDEM
REVISIONS:



FOR PERMIT PURPOSES ONLY

**R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN**  
SURVEY PLAN WITH EXISTING CONDITIONS  
PREPARED FOR  
**STAFFORD VIEW FARM**  
ASSESSOR'S PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND  
SCALE: 1" = 100'  
DATE: OCTOBER 4, 2011

**Civil Engineering Concepts, Inc.**  
344 MAIN STREET  
LITTLE COMPTON, RI 02887  
PH: (401) 592-0177  
FAX: (401) 592-0178  
P.O. BOX 5323  
NEW BEDFORD, MA 02742  
(508) 990-4900  
EMAIL: wsmithccc@aol.com

JOB#: 10-120

MAGNETIC - MARCH 2011

MAY - 7 2013

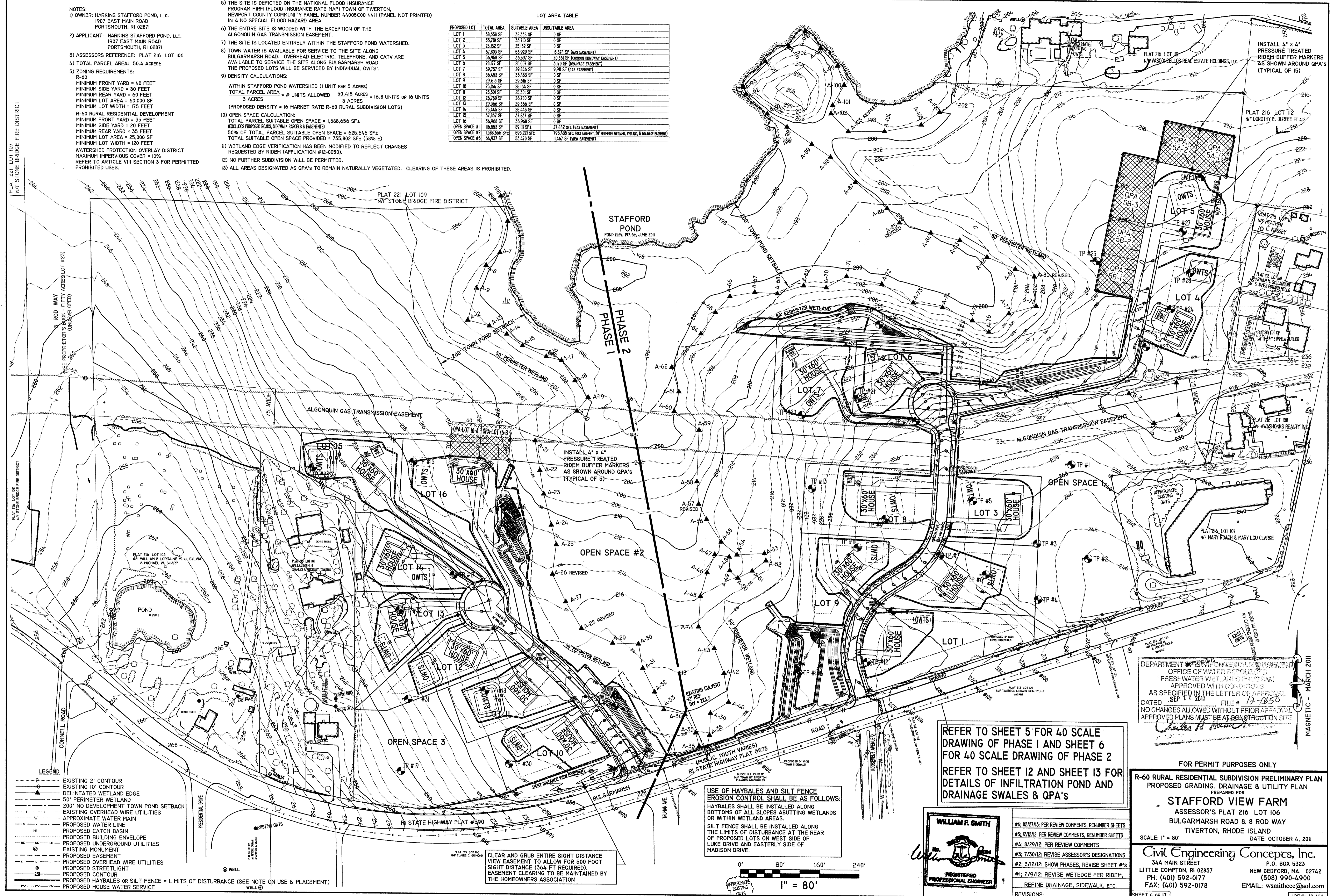


NOTES:  
 1) OWNER: HARKINS STAFFORD POND, LLC.  
 1907 EAST MAIN ROAD  
 PORTSMOUTH, RI 02871  
 2) APPLICANT: HARKINS STAFFORD POND, LLC.  
 1907 EAST MAIN ROAD  
 PORTSMOUTH, RI 02871  
 3) ASSESSORS REFERENCE: PLAT 216 LOT 106  
 4) TOTAL PARCEL AREA: 50.4 ACRES  
 5) ZONING REQUIREMENTS:  
 R-60  
 MINIMUM FRONT YARD = 40 FEET  
 MINIMUM SIDE YARD = 30 FEET  
 MINIMUM REAR YARD = 60 FEET  
 MINIMUM LOT AREA = 60,000 SF  
 MINIMUM LOT WIDTH = 175 FEET  
 R-60 RURAL RESIDENTIAL DEVELOPMENT  
 MINIMUM FRONT YARD = 35 FEET  
 MINIMUM SIDE YARD = 20 FEET  
 MINIMUM REAR YARD = 35 FEET  
 MINIMUM LOT AREA = 25,000 SF  
 MINIMUM LOT WIDTH = 120 FEET  
 WATERSHED PROTECTION OVERLAY DISTRICT  
 MAXIMUM IMPERVIOUS COVER = 10%  
 REFER TO ARTICLE VIII SECTION 3 FOR PERMITTED  
 PROHIBITED USES.

5) THE SITE IS DEPICTED ON THE NATIONAL FLOOD INSURANCE PROGRAM FIRM (FLOOD INSURANCE RATE MAP) TOWN OF TIVERTON, NEWPORT COUNTY COMMUNITY PANEL NUMBER 44005C00 44H (PANEL NOT PRINTED) IN A NO SPECIAL FLOOD HAZARD AREA.  
 6) THE ENTIRE SITE IS WOODED WITH THE EXCEPTION OF THE ALGONQUIN GAS TRANSMISSION EASEMENT.  
 7) THE SITE IS LOCATED ENTIRELY WITHIN THE STAFFORD POND WATERSHED.  
 8) TOWN WATER IS AVAILABLE FOR SERVICE TO THE SITE ALONG BULGARMARSH ROAD. OVERHEAD ELECTRIC, TELEPHONE, AND CATV ARE AVAILABLE TO SERVICE THE SITE ALONG BULGARMARSH ROAD. THE PROPOSED LOTS WILL BE SERVICED BY INDIVIDUAL OWTS.  
 9) DENSITY CALCULATIONS:  
 WITHIN STAFFORD POND WATERSHED (1 UNIT PER 3 ACRES)  
 TOTAL PARCEL AREA = # UNITS ALLOWED 50.415 ACRES = 16.8 UNITS OR 16 UNITS  
 3 ACRES  
 (PROPOSED DENSITY = 16 MARKET RATE R-60 RURAL SUBDIVISION LOTS)  
 10) OPEN SPACE CALCULATION:  
 TOTAL PARCEL SUITABLE OPEN SPACE = 1,388,656 SF±  
 (EXCLUDES PROPOSED ROADS, SIDEWALK PARCELS & EASEMENTS)  
 50% OF TOTAL PARCEL SUITABLE OPEN SPACE = 625,646 SF±  
 TOTAL SUITABLE OPEN SPACE PROVIDED = 735,802 SF± (58% ±)  
 11) WETLAND EDGE VERIFICATION HAS BEEN MODIFIED TO REFLECT CHANGES REQUESTED BY RIDEM (APPLICATION #12-0050).  
 12) NO FURTHER SUBDIVISION WILL BE PERMITTED.  
 13) ALL AREAS DESIGNATED AS OPA'S TO REMAIN NATURALLY VEGETATED. CLEARING OF THESE AREAS IS PROHIBITED.

LOT AREA TABLE

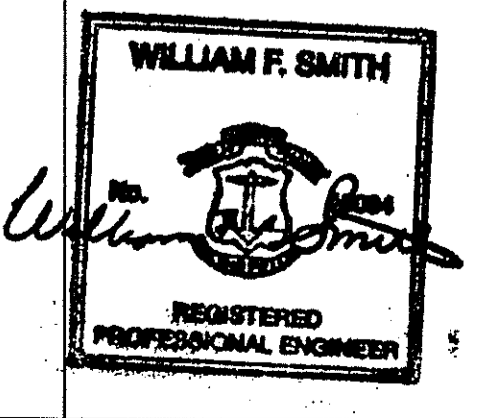
PROPOSED LOT	TOTAL AREA	SUITABLE AREA	UNSUITABLE AREA
LOT 1	28,338 SF	28,338 SF	0 SF
LOT 2	33,710 SF	33,710 SF	0 SF
LOT 3	25,132 SF	25,132 SF	0 SF
LOT 4	67,603 SF	53,929 SF	13,674 SF (GAS EASEMENT)
LOT 5	56,958 SF	36,597 SF	20,361 SF (COMMON DRIVEWAY EASEMENT)
LOT 6	28,177 SF	28,027 SF	150 SF (DRAINAGE EASEMENT)
LOT 7	59,757 SF	29,846 SF	29,911 SF (GAS EASEMENT)
LOT 8	36,453 SF	36,453 SF	0 SF
LOT 9	29,816 SF	29,816 SF	0 SF
LOT 10	25,184 SF	25,184 SF	0 SF
LOT 11	25,301 SF	25,301 SF	0 SF
LOT 12	26,780 SF	26,780 SF	0 SF
LOT 13	29,366 SF	29,366 SF	0 SF
LOT 14	25,445 SF	25,445 SF	0 SF
LOT 15	37,837 SF	37,837 SF	0 SF
LOT 16	36,968 SF	36,968 SF	0 SF
OPEN SPACE #1	16,553 SF	69,111 SF±	27,442 SF± (GAS EASEMENT)
OPEN SPACE #2	1,388,656 SF±	593,221 SF±	795,435 SF± (GAS EASEMENT, 50' PERIMETER WETLAND, WETLAND, & DRAINAGE EASEMENT)
OPEN SPACE #3	64,937 SF	53,476 SF	11,461 SF (VIEW EASEMENT)



REFER TO SHEET 5 FOR 40 SCALE DRAWING OF PHASE 1 AND SHEET 6 FOR 40 SCALE DRAWING OF PHASE 2  
 REFER TO SHEET 12 AND SHEET 13 FOR DETAILS OF INFILTRATION POND AND DRAINAGE SWALES & QPA'S

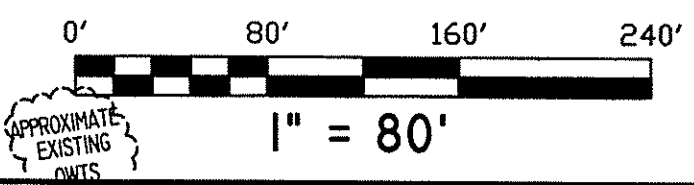
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP 16 2013 FILE # 12-050  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

FOR PERMIT PURPOSES ONLY  
 R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 PROPOSED GRADING, DRAINAGE & UTILITY PLAN  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND  
 SCALE: 1" = 80' DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5323  
 LITTLE COMPTON, RI 02887 NEW BEDFORD, MA. 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithce@comcast.net  
 SHEET 4 OF 17 JOB#: 10-120



USE OF HAYBALES AND SILT FENCE EROSION CONTROL SHALL BE AS FOLLOWS:  
 HAYBALES SHALL BE INSTALLED ALONG BOTTOMS OF ALL SLOPES ABUTTING WETLANDS OR WITHIN WETLAND AREAS.  
 SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE AT THE REAR OF PROPOSED LOTS ON WEST SIDE OF LUKE DRIVE AND EASTERLY SIDE OF MADISON DRIVE.

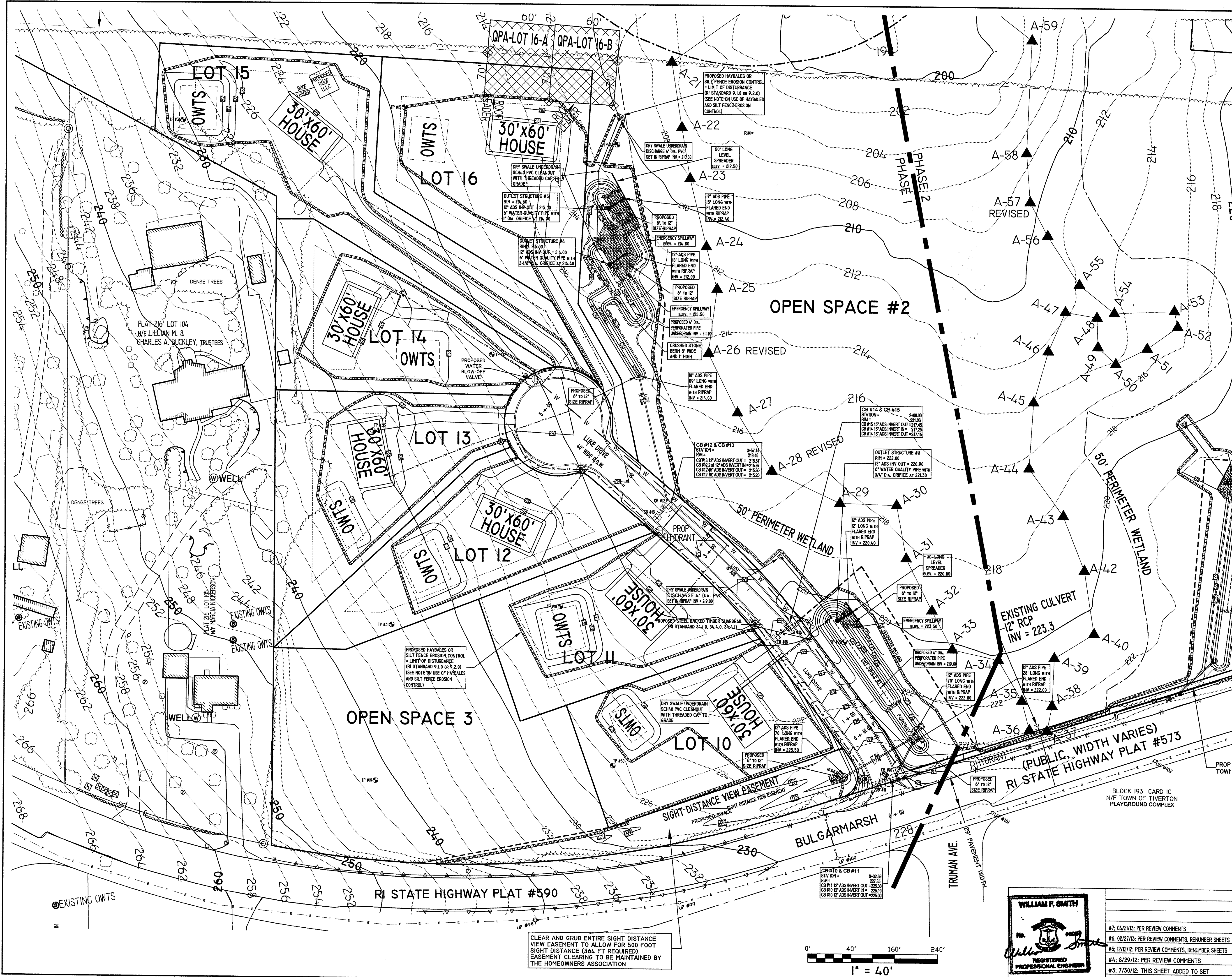
CLEAR AND GRUB ENTIRE SIGHT DISTANCE VIEW EASEMENT TO ALLOW FOR 500 FOOT SIGHT DISTANCE (364 FT REQUIRED). EASEMENT CLEARING TO BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION



- LEGEND
- - - - - EXISTING 2' CONTOUR
  - - - - - EXISTING 10' CONTOUR
  - - - - - DELINEATED WETLAND EDGE
  - - - - - 50' PERIMETER WETLAND
  - - - - - 200' NO DEVELOPMENT TOWN POND SETBACK
  - - - - - EXISTING OVERHEAD WIRE UTILITIES
  - - - - - APPROXIMATE WATER MAIN
  - - - - - PROPOSED WATER LINE
  - - - - - PROPOSED CATCH BASIN
  - - - - - PROPOSED BUILDING ENVELOPE
  - - - - - PROPOSED UNDERGROUND UTILITIES
  - - - - - EXISTING MONUMENT
  - - - - - PROPOSED EASEMENT
  - - - - - PROPOSED OVERHEAD WIRE UTILITIES
  - - - - - PROPOSED STREET LIGHT
  - - - - - PROPOSED CONTOUR
  - - - - - PROPOSED HAYBALES OR SILT FENCE = LIMITS OF DISTURBANCE (SEE NOTE ON USE & PLACEMENT)
  - - - - - PROPOSED HOUSE WATER SERVICE

MAGNETIC - MARCH 2011

MAY - 7 2013  
City of Westford



REFER TO SHEET 12 AND SHEET 13 FOR  
DETAILS OF INFILTRATION POND AND  
DRAINAGE SWALES & QPA'S

USE OF HAYBALES AND SILT FENCE  
EROSION CONTROL SHALL BE AS FOLLOWS:  
HAYBALES SHALL BE INSTALLED ALONG  
BOTTOMS OF ALL SLOPES ABUTTING WETLANDS  
OR WITHIN WETLAND AREAS.  
SILT FENCE SHALL BE INSTALLED ALONG  
THE LIMITS OF DISTURBANCE AT THE REAR  
OF PROPOSED LOTS ON WEST SIDE OF  
LUKE DRIVE AND EASTERLY SIDE OF  
MADISON DRIVE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 10 2013 FILE # 12-0050  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVE PLANS MUST BE AT CONSTRUCTION SITE.  
*Charles A. Herbert*

- LEGEND
- 2' EXISTING 2' CONTOUR
  - 10' EXISTING 10' CONTOUR
  - APPROXIMATE DELINEATED WETLAND EDGE
  - 50' PERIMETER WETLAND
  - 200' NO DEVELOPMENT TOWN POND SETBACK
  - EXISTING OVERHEAD WIRE UTILITIES
  - APPROXIMATE WATER MAIN
  - PROPOSED WATER LINE
  - PROPOSED CATCH BASIN
  - PROPOSED BUILDING ENVELOPE
  - PROPOSED UNDERGROUND UTILITIES
  - EXISTING MONUMENT
  - PROPOSED EASEMENT
  - PROPOSED OVERHEAD WIRE UTILITIES
  - PROPOSED STREETLIGHT
  - PROPOSED CONTOUR
  - PROPOSED HAYBALES OR SILT FENCE - LIMITS OF DISTURBANCE  
(SEE NOTE ON USE & PLACEMENT)
  - PROPOSED HOUSE WATER SERVICE
  - PROPOSED FIRE HYDRANT
  - PROPOSED WATER BLOW-OFF VALVE

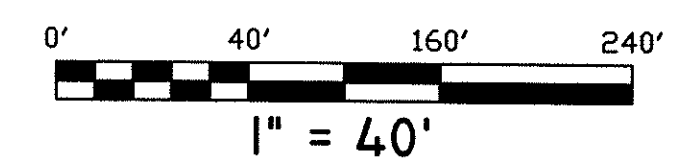
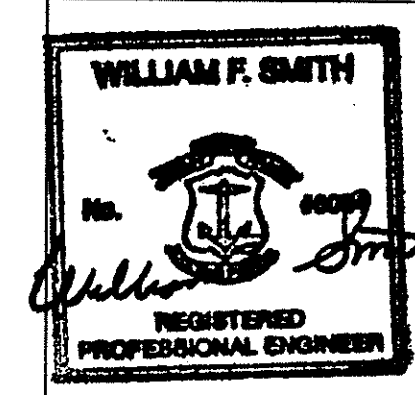
FOR PERMIT PURPOSES ONLY

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
PROPOSED GRADING, DRAINAGE & UTILITY PLAN - PHASE I  
PREPARED FOR  
**STAFFORD VIEW FARM**  
ASSESSOR'S PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND  
SCALE: 1" = 40' DATE: OCTOBER 4, 2011

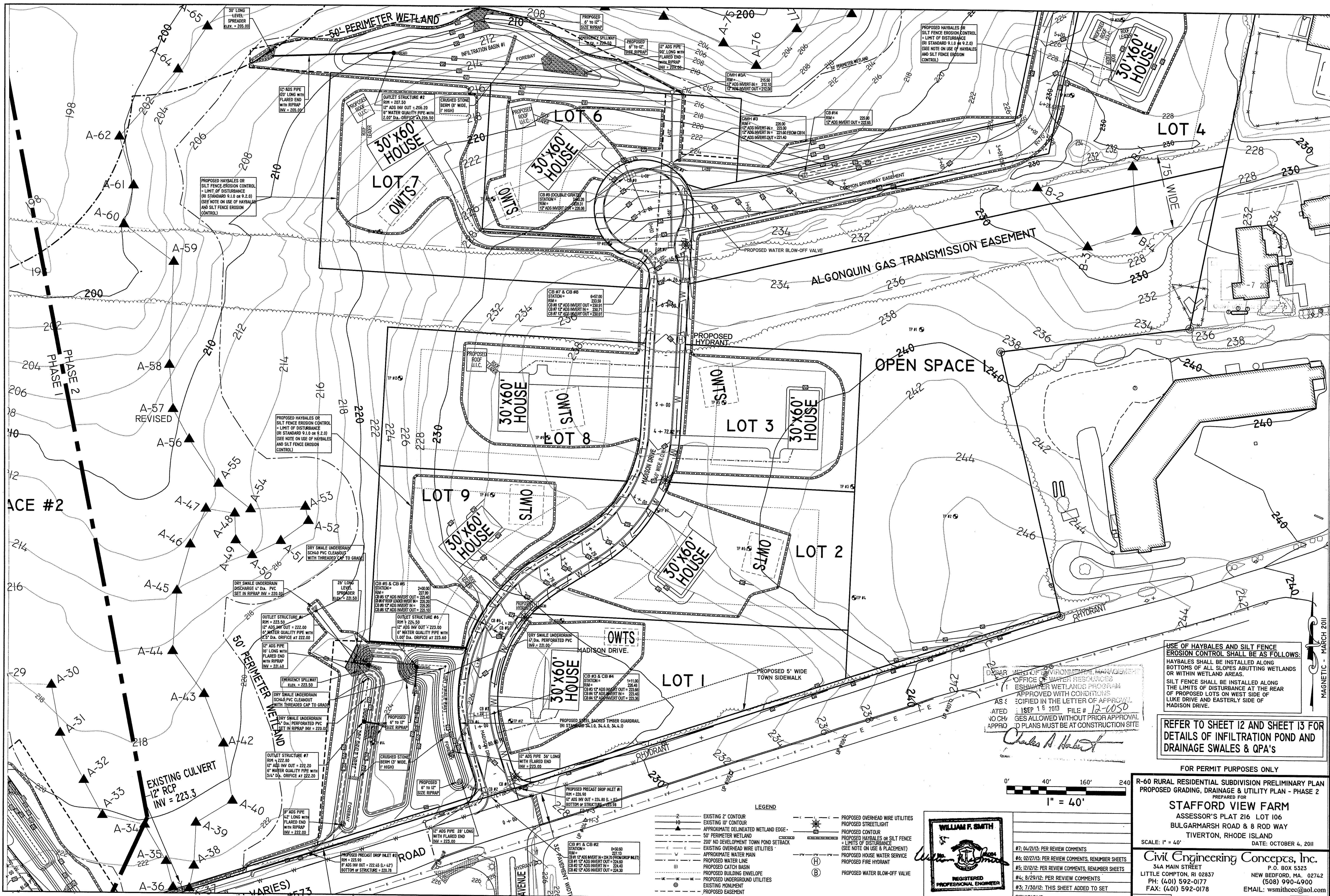
**Civil Engineering Concepts, Inc.**  
34A MAIN STREET  
LITTLE COMPTON, RI 02837  
PH: (401) 592-0177  
FAX: (401) 592-0178  
P. O. BOX 5323  
NEW BEDFORD, MA 02742  
(508) 990-4900  
EMAIL: wsmithccc@aol.com

REVISIONS:  
#7: 04/21/13: PER REVIEW COMMENTS  
#6: 02/27/13: PER REVIEW COMMENTS, RENUMBER SHEETS  
#5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS  
#4: 8/29/12: PER REVIEW COMMENTS  
#3: 7/30/12: THIS SHEET ADDED TO SET

SHEET 5 OF 17



CLEAR AND GRUB ENTIRE SIGHT DISTANCE  
VIEW EASEMENT TO ALLOW FOR 500 FOOT  
SIGHT DISTANCE (364 FT REQUIRED).  
EASEMENT CLEARING TO BE MAINTAINED BY  
THE HOMEOWNERS ASSOCIATION

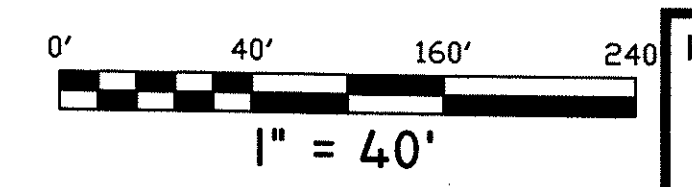


USE OF HAYBALES AND SILT FENCE EROSION CONTROL SHALL BE AS FOLLOWS:  
 HAYBALES SHALL BE INSTALLED ALONG BOTTOMS OF ALL SLOPES ABUTTING WETLANDS OR WITHIN WETLAND AREAS.  
 SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE AT THE REAR OF PROPOSED LOTS ON WEST SIDE OF LUKE DRIVE AND EASTERLY SIDE OF MADISON DRIVE.

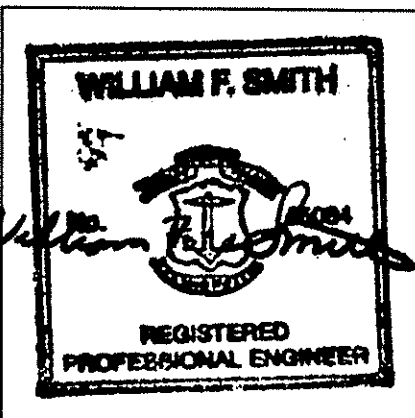
REFER TO SHEET 12 AND SHEET 13 FOR DETAILS OF INFILTRATION POND AND DRAINAGE SWALES & QPA'S

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFICATED IN THE LETTER OF APPROVAL  
 DATED: SEP 15 2013 FILE # 12-005D  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Hackett*



- LEGEND
- EXISTING 2' CONTOUR
  - EXISTING 10' CONTOUR
  - - - APPROXIMATE DELINEATED WETLAND EDGE
  - 50' PERIMETER WETLAND
  - 200' NO DEVELOPMENT TOWN POND SETBACK
  - EXISTING OVERHEAD WIRE UTILITIES
  - APPROXIMATE WATER MAIN
  - PROPOSED WATER LINE
  - PROPOSED CATCH BASIN
  - PROPOSED BUILDING ENVELOPE
  - EXISTING MONUMENT
  - PROPOSED EASEMENT
  - PROPOSED OVERHEAD WIRE UTILITIES
  - PROPOSED STREETLIGHT
  - PROPOSED CONTOUR
  - PROPOSED HAYBALES OR SILT FENCE (LIMITS OF DISTURBANCE) (SEE NOTE ON USE & PLACEMENT)
  - APPROXIMATE WATER MAIN
  - PROPOSED HOUSE WATER SERVICE
  - PROPOSED FIRE HYDRANT
  - PROPOSED WATER BLOW-OFF VALVE



FOR PERMIT PURPOSES ONLY

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 PROPOSED GRADING, DRAINAGE & UTILITY PLAN - PHASE 2  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGAR MARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND

SCALE: 1" = 40' DATE: OCTOBER 4, 2011

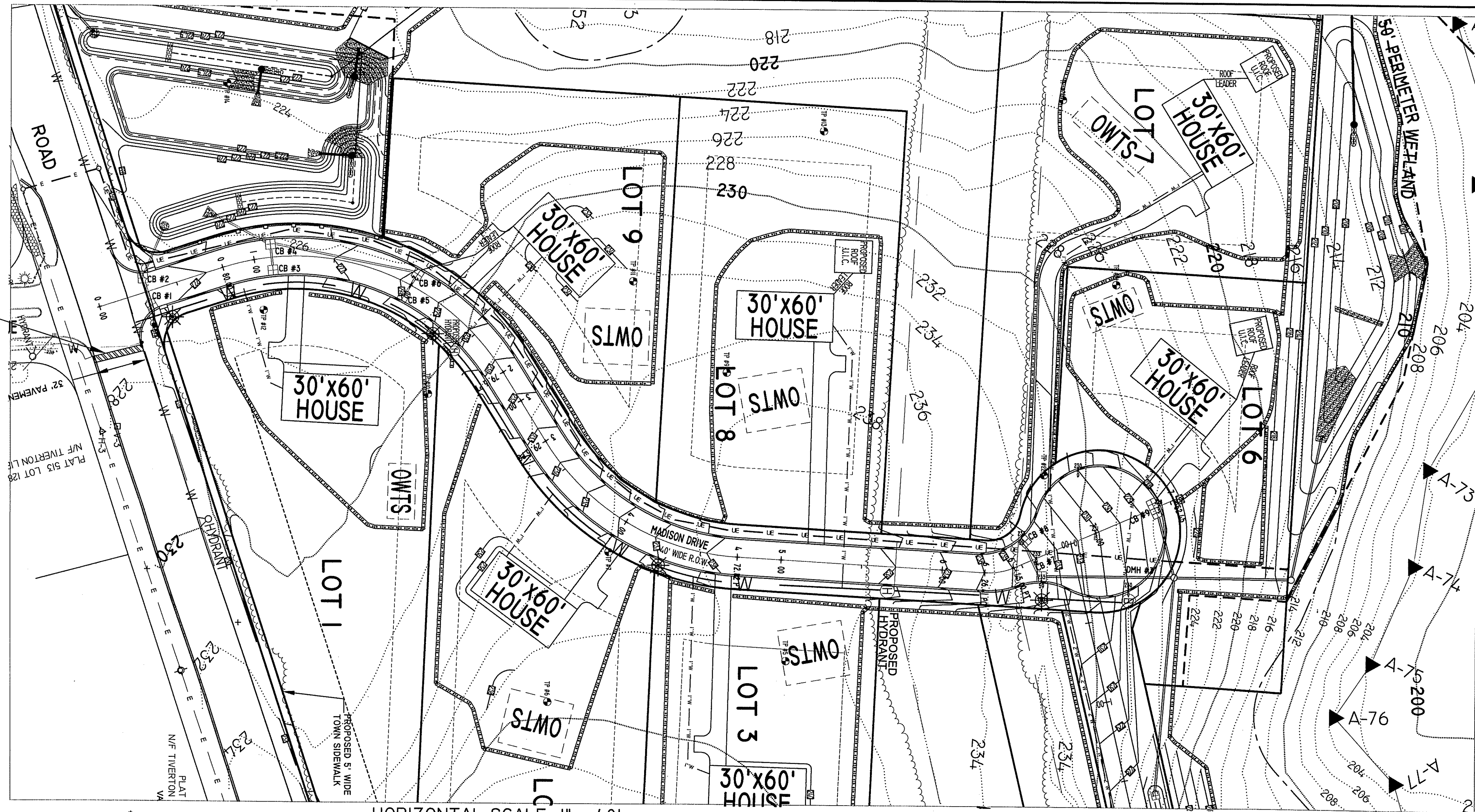
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET  
 LITTLE COMPTON, RI 02837  
 PH: (401) 592-0177  
 FAX: (401) 592-0178  
 EMAIL: wsmithc@comcast.net

P.O. BOX 5323  
 NEW BEDFORD, MA 02742  
 (508) 990-4900  
 EMAIL: wsmithc@aol.com

SHEET 6 OF 17 JOB#: 10-120

MAGNETIC - MARCH 2011

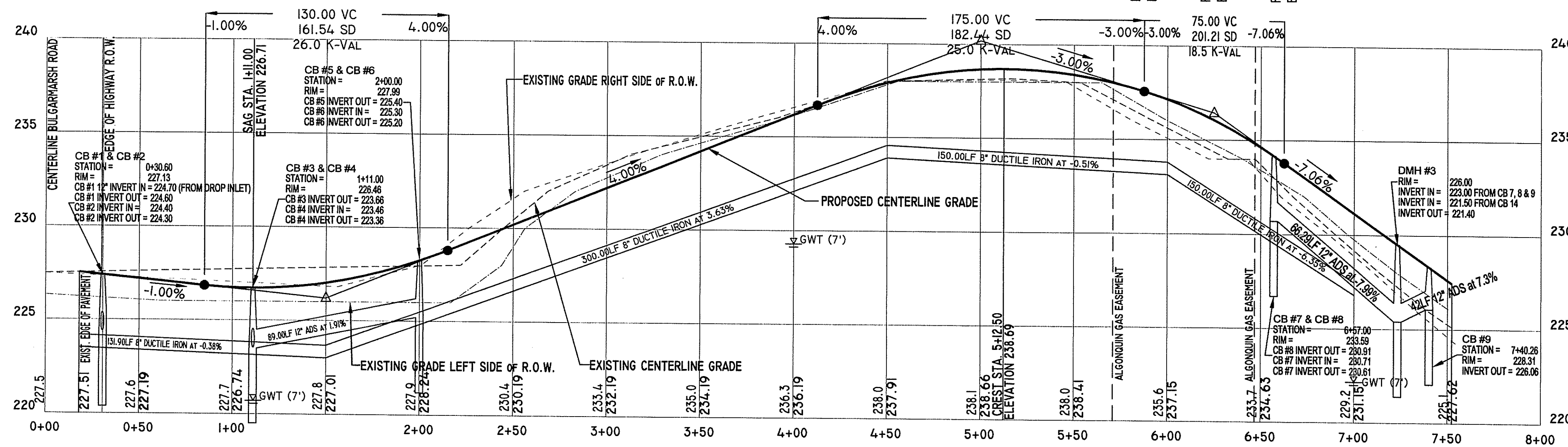
APPROXIMATE LOCATION OF CROSSWALK BEING INSTALLED BY RIDOT



Environmental Management  
MAY - 7 2013  
Office of Water Resources

HORIZONTAL SCALE: 1" = 40'  
 PVC STA. 0+85.00 ELEVATION 226.84  
 PVI STA. 1+50.00 ELEVATION 226.19  
 PVT STA. 2+15.00 ELEVATION 228.79  
 PVC STA. 4+12.50 ELEVATION 236.69  
 PVI STA. 5+00.00 ELEVATION 240.19  
 PVT STA. 5+87.50 ELEVATION 237.57  
 PVC STA. 6+25.00 ELEVATION 236.44  
 PVT STA. 6+62.50 ELEVATION 233.80

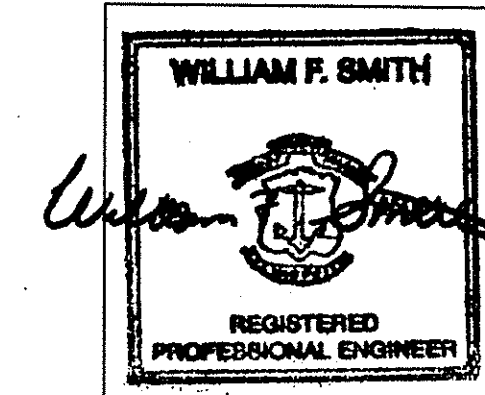
NOTE:  
 1) ALL STORM DRAIN PIPING SHALL BE 12" ADS UNLESS NOTED OTHERWISE.  
 2) FOR DETAILED INFORMATION RELATED TO DETENTION PONDS AND SWALES REFER TO SHEETS 12 AND 13.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP 16 2010 FILE # 12-1052  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Hester*

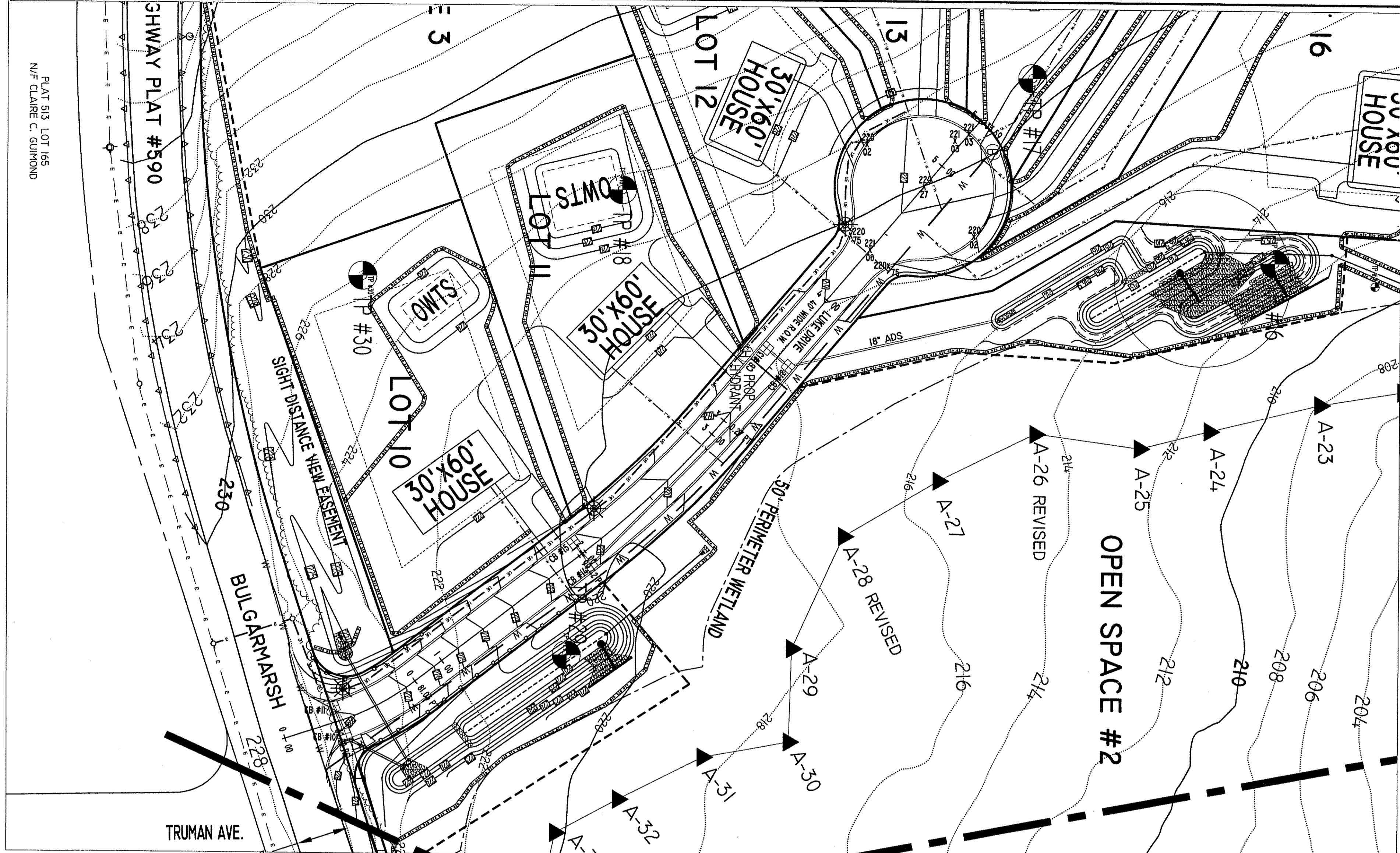
**MADISON DRIVE**  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 4'



#7: 04/21/13: PER REVIEW COMMENTS
#6: 02/27/13: PER REVIEW COMMENTS, RENUMBER SHEETS
#5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#4: 8/29/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#3: 7/30/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#2: 3/12/12: ADD PLAN VIEW, SHEET #, ETC.
#1: 2/9/12: NO REVISIONS THIS SHEET
REVISIONS:

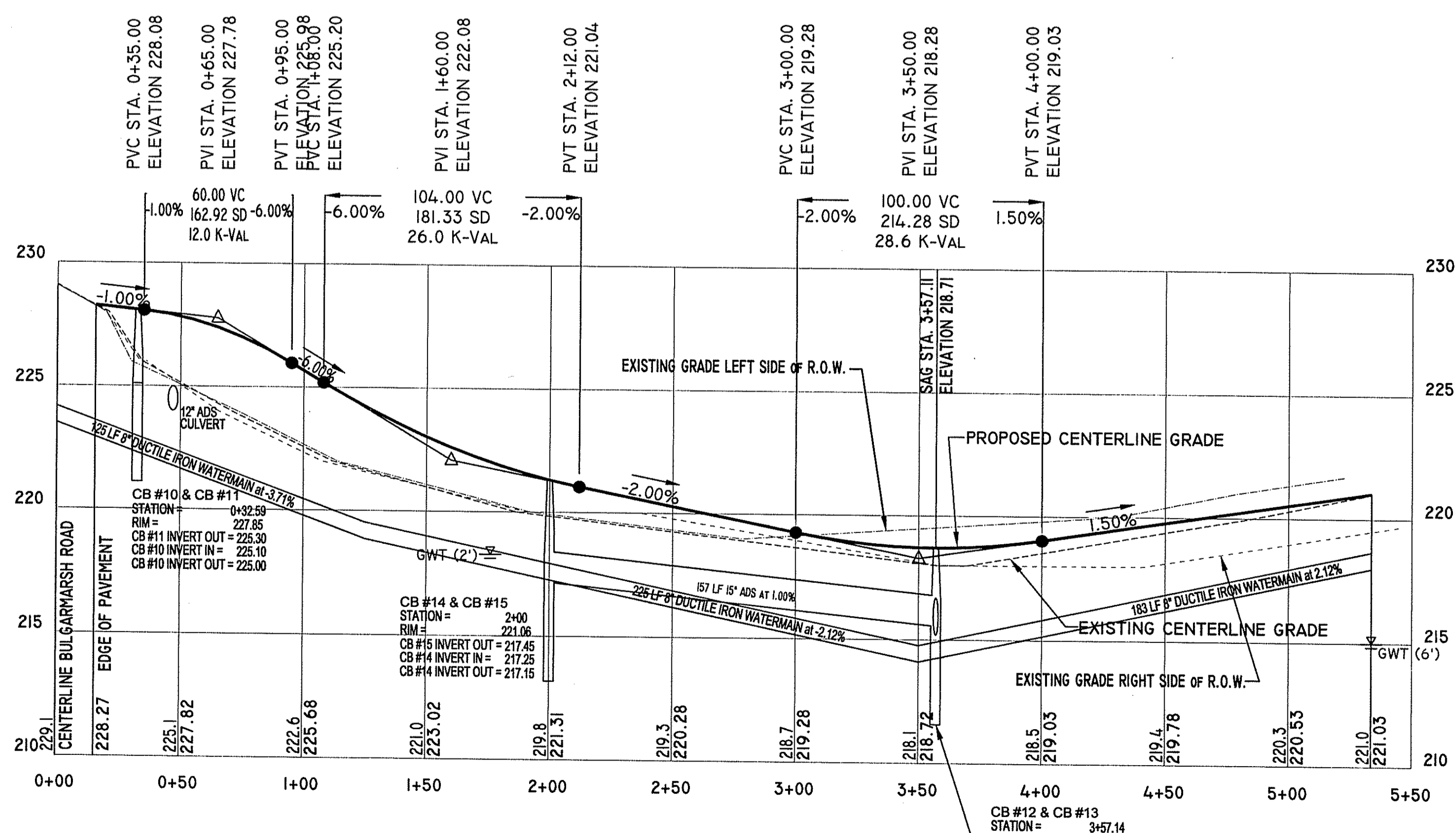
FOR PERMIT PURPOSES ONLY  
 R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 MADISON DRIVE - PLAN & PROFILE  
 PREPARED FOR  
**STAFFORD FARM FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND  
 SCALE: AS NOTED DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5323  
 LITTLE COMPTON, RI 02883 NEW BEDFORD, MA. 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithce@aol.com

MAGNETIC - MARCH 2011



MAY - 7 2013

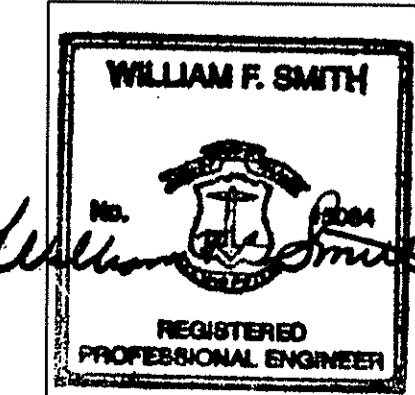
HORIZONTAL SCALE: 1" = 40'



**NOTE:**  
 1) ALL STORM DRAIN PIPING SHALL BE 12" ADS UNLESS NOTED OTHERWISE.  
 2) FOR DETAILED INFORMATION RELATED TO DETENTION PONDS AND SWALES REFER TO SHEETS 12 AND 13.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 DATED SEP 16 2013 FILE # 12-058  
 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 ALL PROPOSED PLANS MUST BE AT CONSTRUCTION SITE  
*Charles A. Francis*

**LUKE DRIVE**  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 4'



#7: 04/21/13: PER REVIEW COMMENTS
#6: 02/27/13: PER REVIEW COMMENTS, RENUMBER SHEETS
#5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#4: 8/29/12: PER REVIEW COMMENTS
#3: 7/30/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#2: 3/12/12: ADD PLAN VIEW, SHEET #, ETC.
#1: 2/9/12: NO REVISIONS THIS SHEET
REVISIONS:

FOR PERMIT PURPOSES ONLY

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 LUKE DRIVE - PLAN & PROFILE  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND

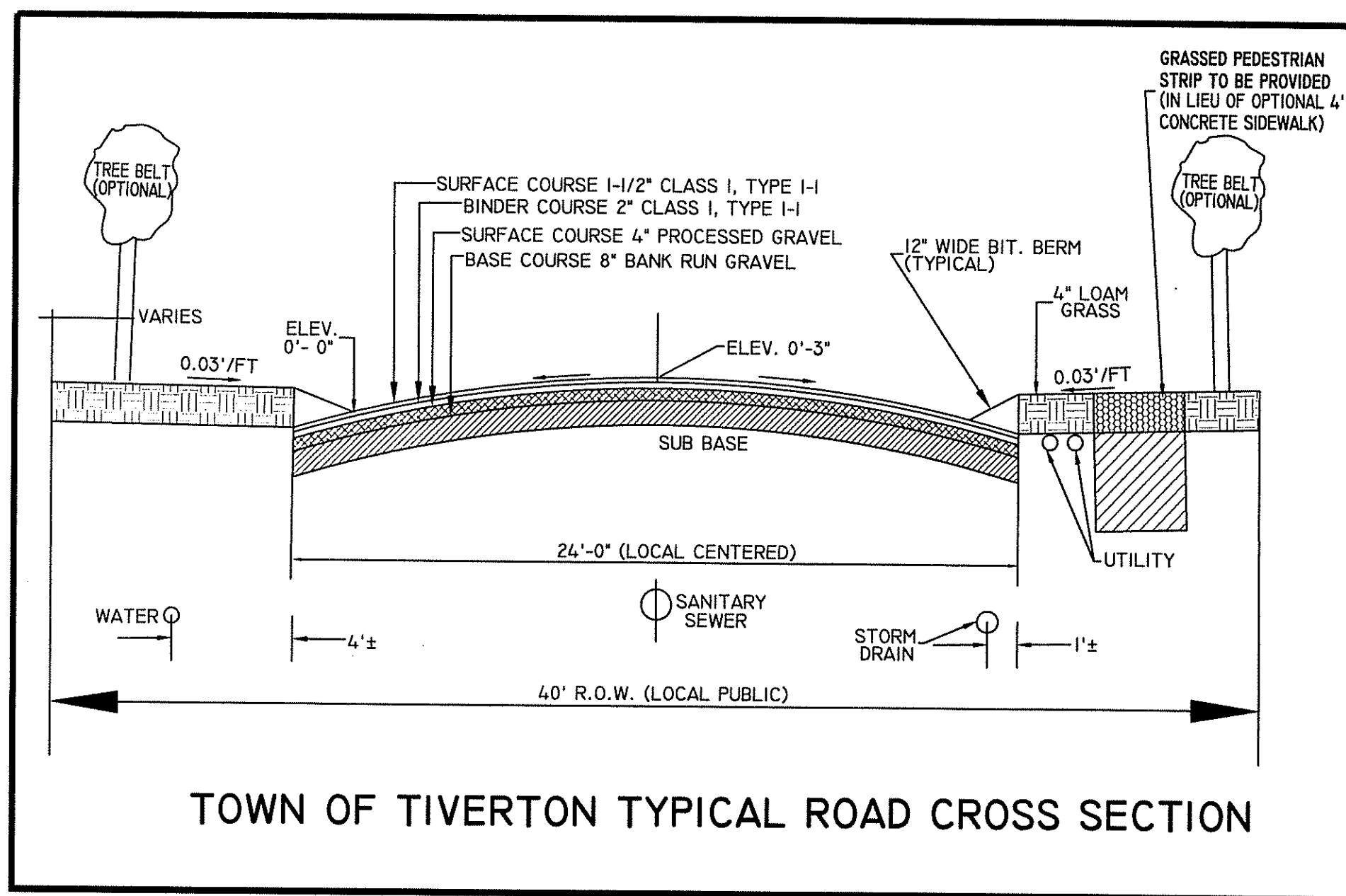
SCALE: AS NOTED DATE: OCTOBER 4, 2011

**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5323  
 LITTLE COMPTON, RI 02837 NEW BEDFORD, MA. 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithccc@aol.com

SHEET 8 OF 17 JOB#: 10-120







TOWN OF TIVERTON TYPICAL ROAD CROSS SECTION

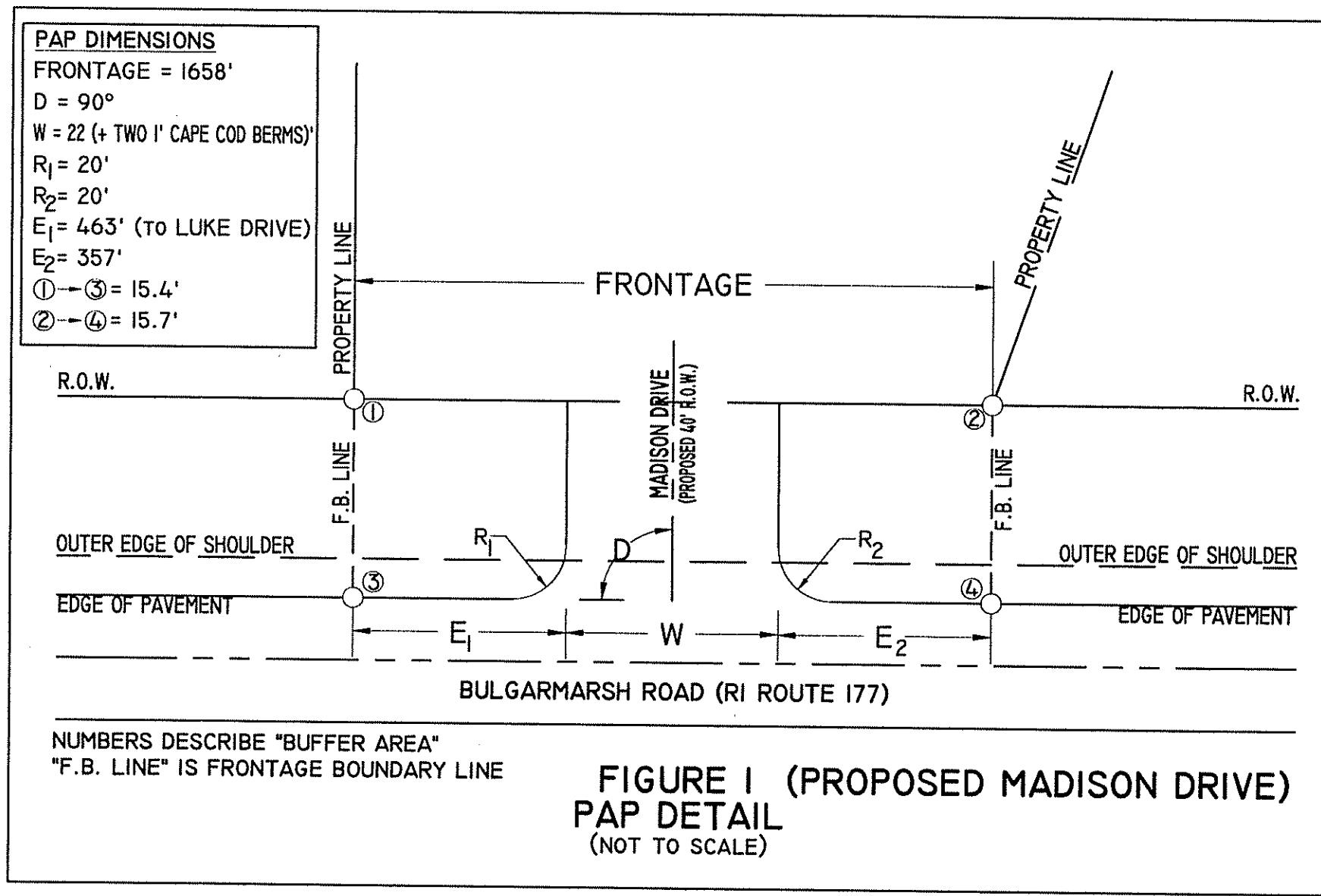


FIGURE 1 (PROPOSED MADISON DRIVE) P.A.P. DETAIL (NOT TO SCALE)

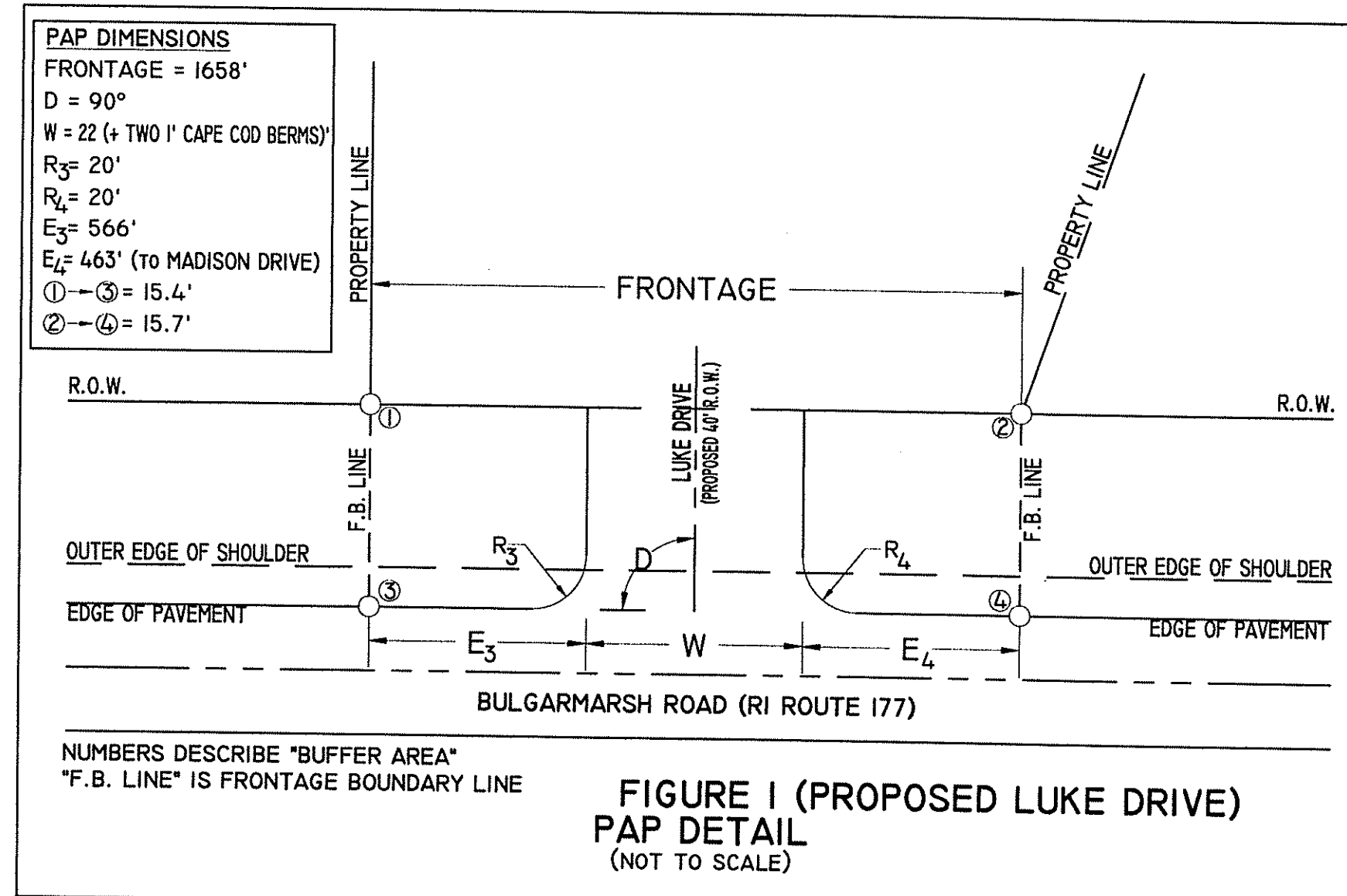
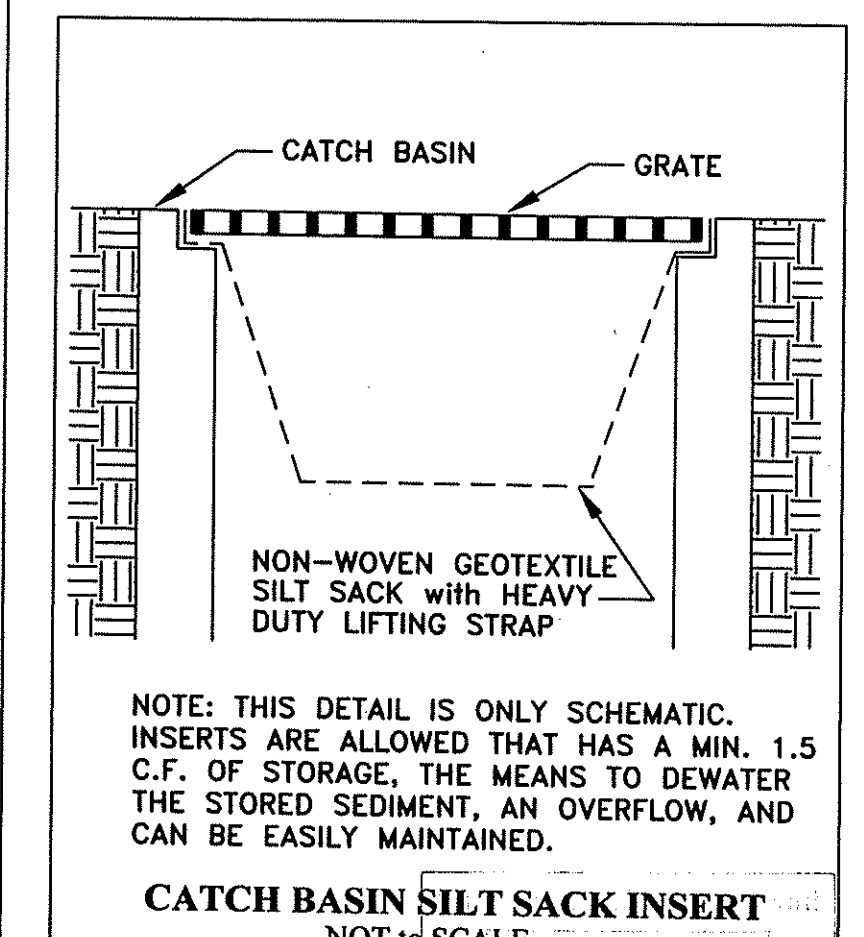
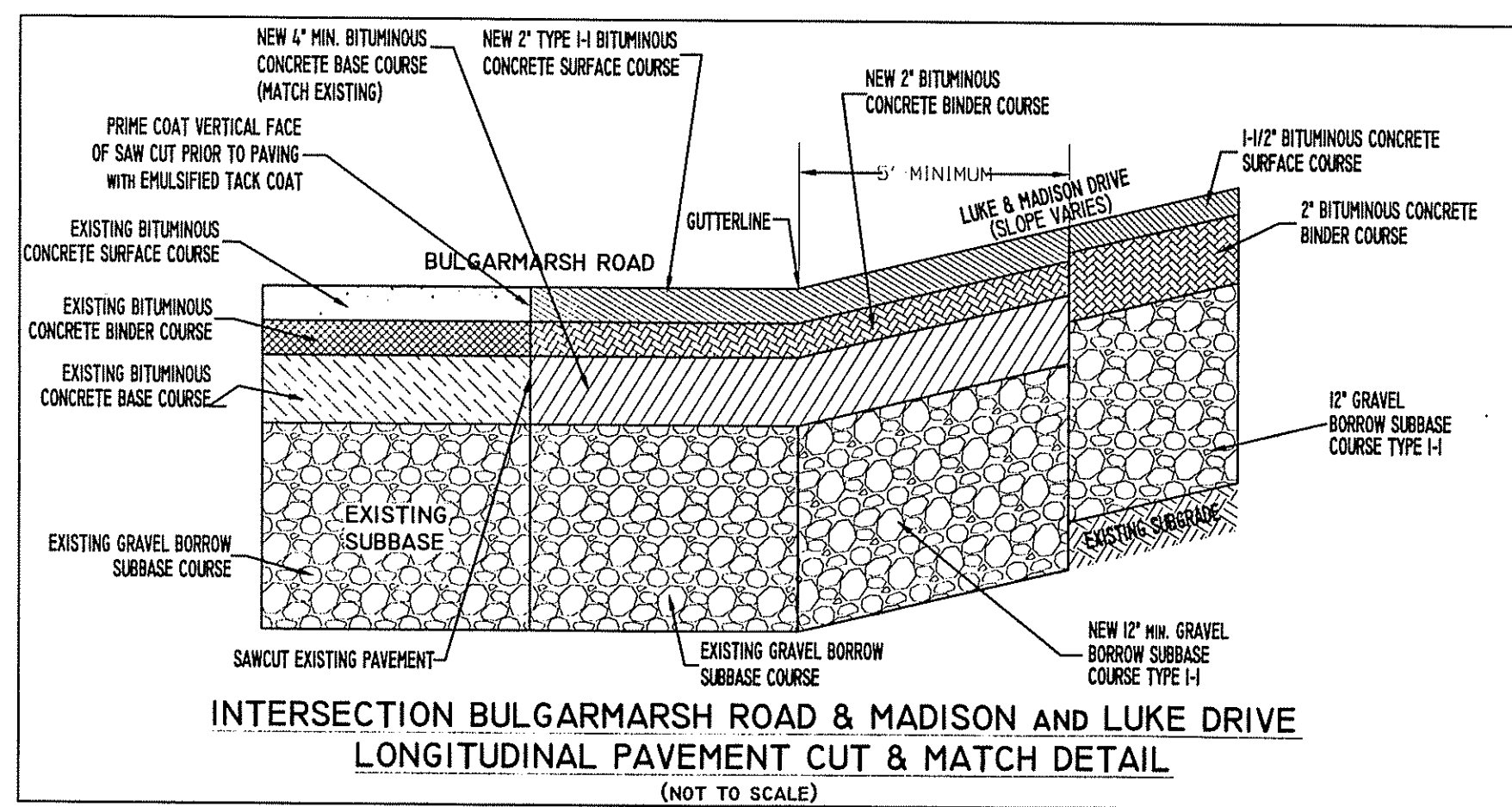


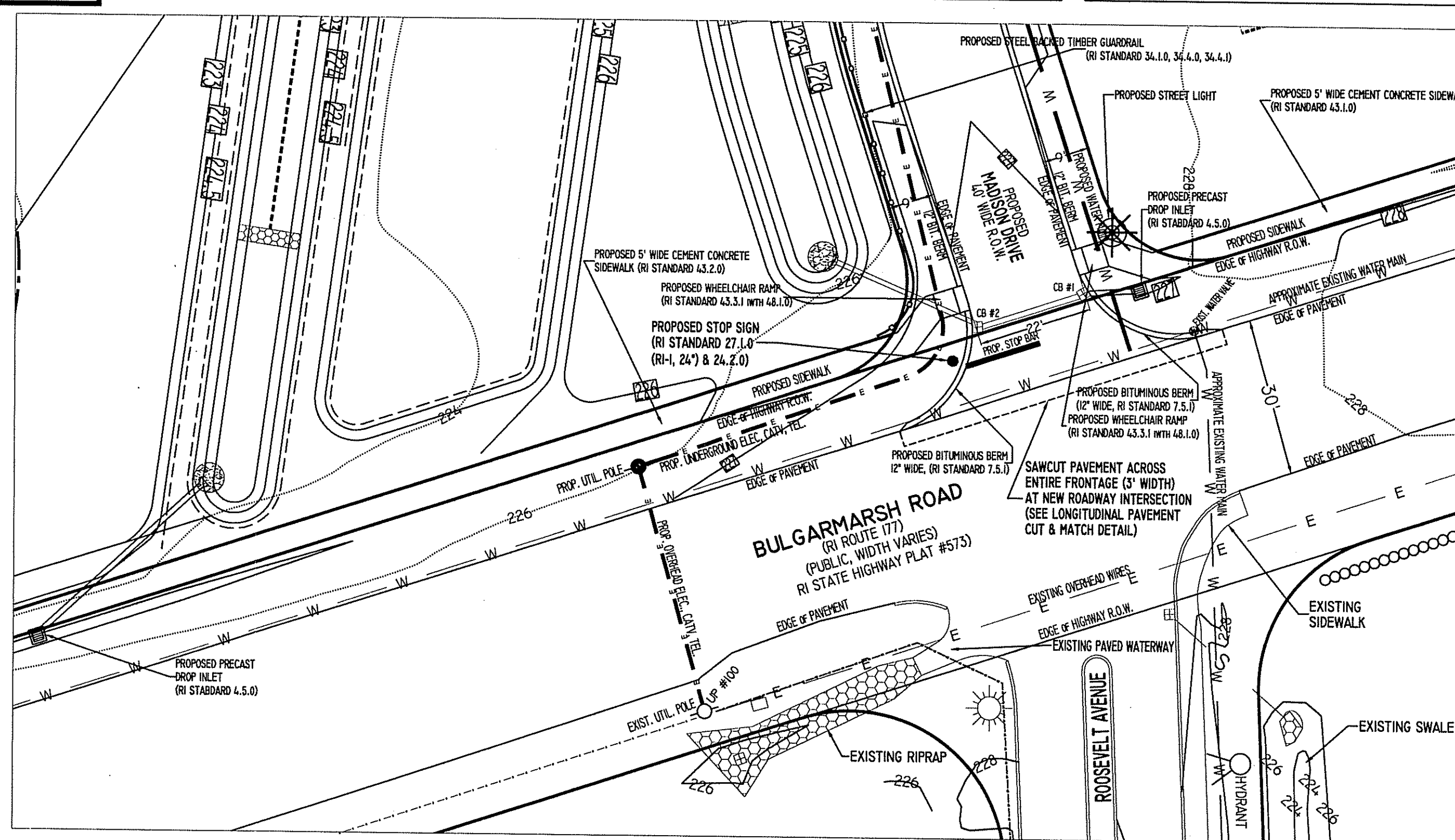
FIGURE 1 (PROPOSED LUKE DRIVE) P.A.P. DETAIL (NOT TO SCALE)



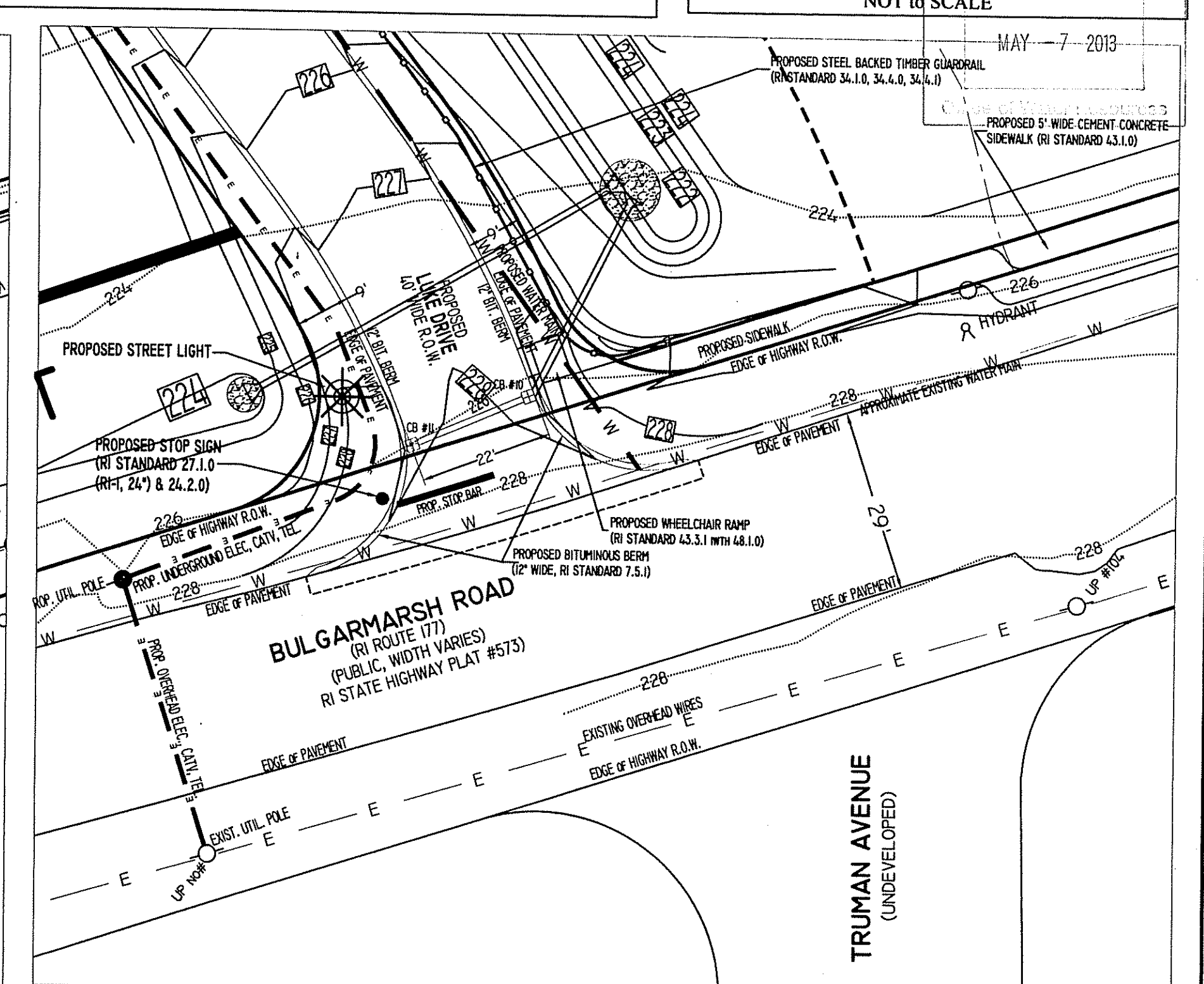
CATCH BASIN SILT SACK INSERT (NOT TO SCALE)



INTERSECTION BULGARMARSH ROAD & MADISON AND LUKE DRIVE LONGITUDINAL PAVEMENT CUT & MATCH DETAIL (NOT TO SCALE)



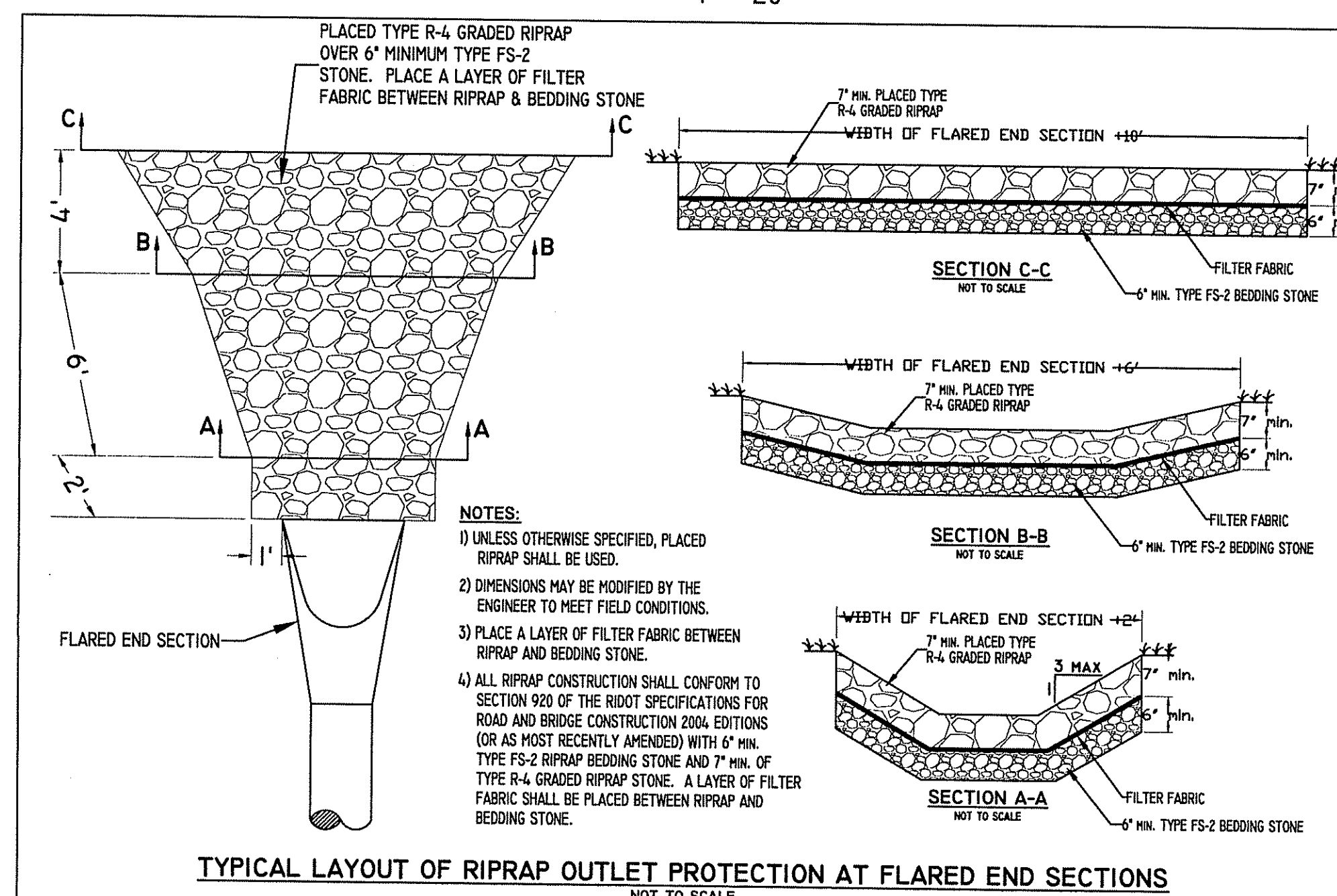
MADISON DRIVE P.A.P. DETAIL 1" = 20'



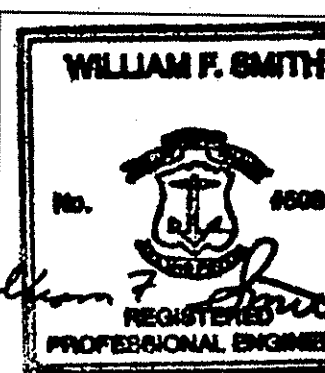
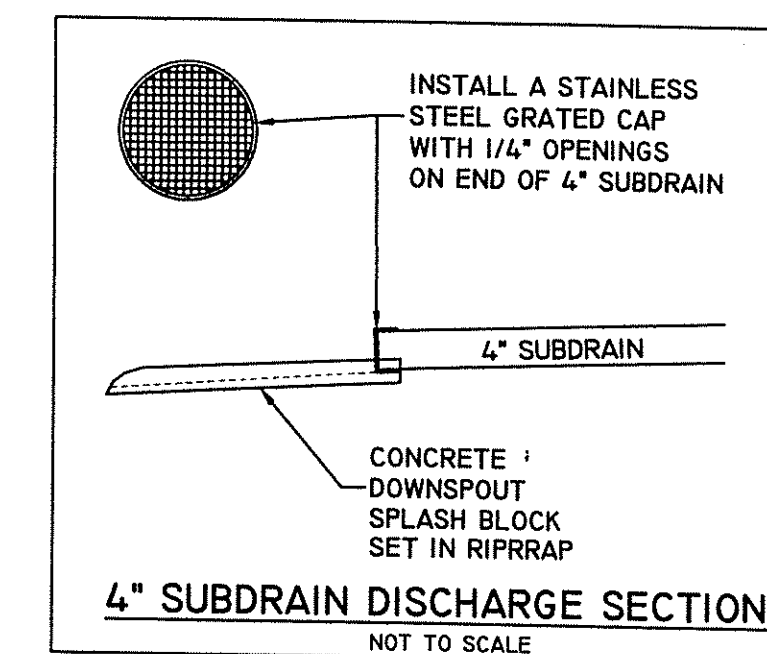
LUKE DRIVE P.A.P. DETAIL 1" = 20'

P.A.P. NOTES

- ALL WORK WITHIN THE STATE HIGHWAY R.O.W. SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, INCLUDING ALL REVISIONS AND THE RHODE ISLAND STANDARD DETAILS. REFER TO RIDOT PAPA#120319-A (PENDING) FOR ADDITIONAL DETAILS.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009; INCLUDING ALL REVISIONS.
- IT IS THE CONTRACTORS RESPONSIBILITY, AS REQUIRED BY LAW, TO NOTIFY DIG SAFE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. FLAG PERSONS/POLICE DETAIL SHALL BE ON SITE DURING WORK WITHIN THE ROUTE 177 RIGHT OF WAY. ADEQUATE SIGNAGE WARNING APPROACHING VEHICLES OF WORK ZONE IS REQUIRED PRIOR TO ANY WORK WITHIN ROUTE 177 RIGHT OF WAY. TRAFFIC CONES SHALL BE USED TO ESTABLISH TEMPORARY TRAVEL LANES FOR ALL TRAFFIC DURING CONSTRUCTION ACTIVITY.
- RIDOT AND PUBLIC SAFETY OFFICIALS SHALL RESERVE THE RIGHT TO MODIFY AND REQUIRE ADDITIONAL TRAFFIC CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.
- A DRAINAGE EASEMENT WILL BE GRANTED TO STATE OF RHODE ISLAND AND RI DOT.
- THE TOWN OF TIVERTON WILL BE RESPONSIBLE FOR MAINTENANCE OF THE ENTIRE SIDEWALK AND DRAINAGE SWALE WITHIN THE STATE HIGHWAY R.O.W. AS WELL AS ANY ISSUES ARISING FROM LACK OF DRAINAGE SYSTEM MAINTENANCE. THE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR ALL MAINTENANCE OF ALL DRY SWALES, FOREBAYS, DETENTION BASINS, INFILTRATION BASINS, EMERGENCY SPILLWAYS, OUTLET STRUCTURES, LEVEL SPREADERS, UNDERDRAINS, AND DISCHARGES.
- THE SIGHT DISTANT EASEMENT SHALL BE CLEARED AND GRUBBED ENTIRELY OF VEGETATION. THE HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE CLEARING WITHIN THE SIGHT DISTANCE EASEMENT.



TYPICAL LAYOUT OF RIPRAP OUTLET PROTECTION AT FLARED END SECTIONS (NOT TO SCALE)

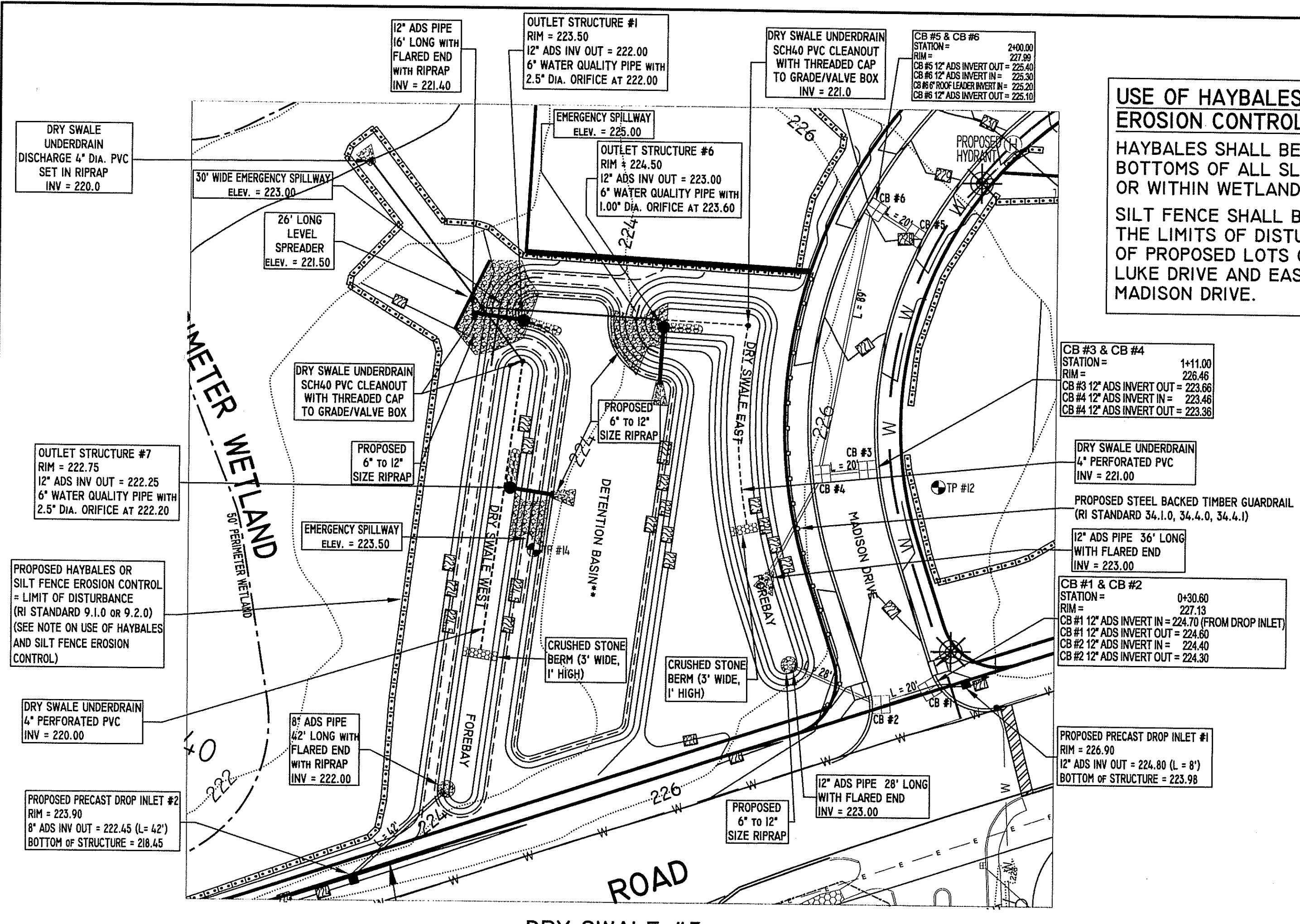


#7: 04/21/15: ADD RIPRAP DETAIL, 4\"/>
#6: 02/27/15: PER REVIEW COMMENTS, RE-NUMBER SHEETS
#5: 12/12/12: PER REVIEW COMMENTS, RE-NUMBER SHEETS
#4: 8/29/12: PER REVIEW COMMENTS, RE-NUMBER SHEETS
#3: 7/30/12: PER REVIEW COMMENTS, RE-NUMBER SHEETS
#2: 3/12/12: REVISE SHEET #'S
#1: 2/19/12: ADD PROPOSED SIDEWALK CALL-OUTS
REVISIONS:

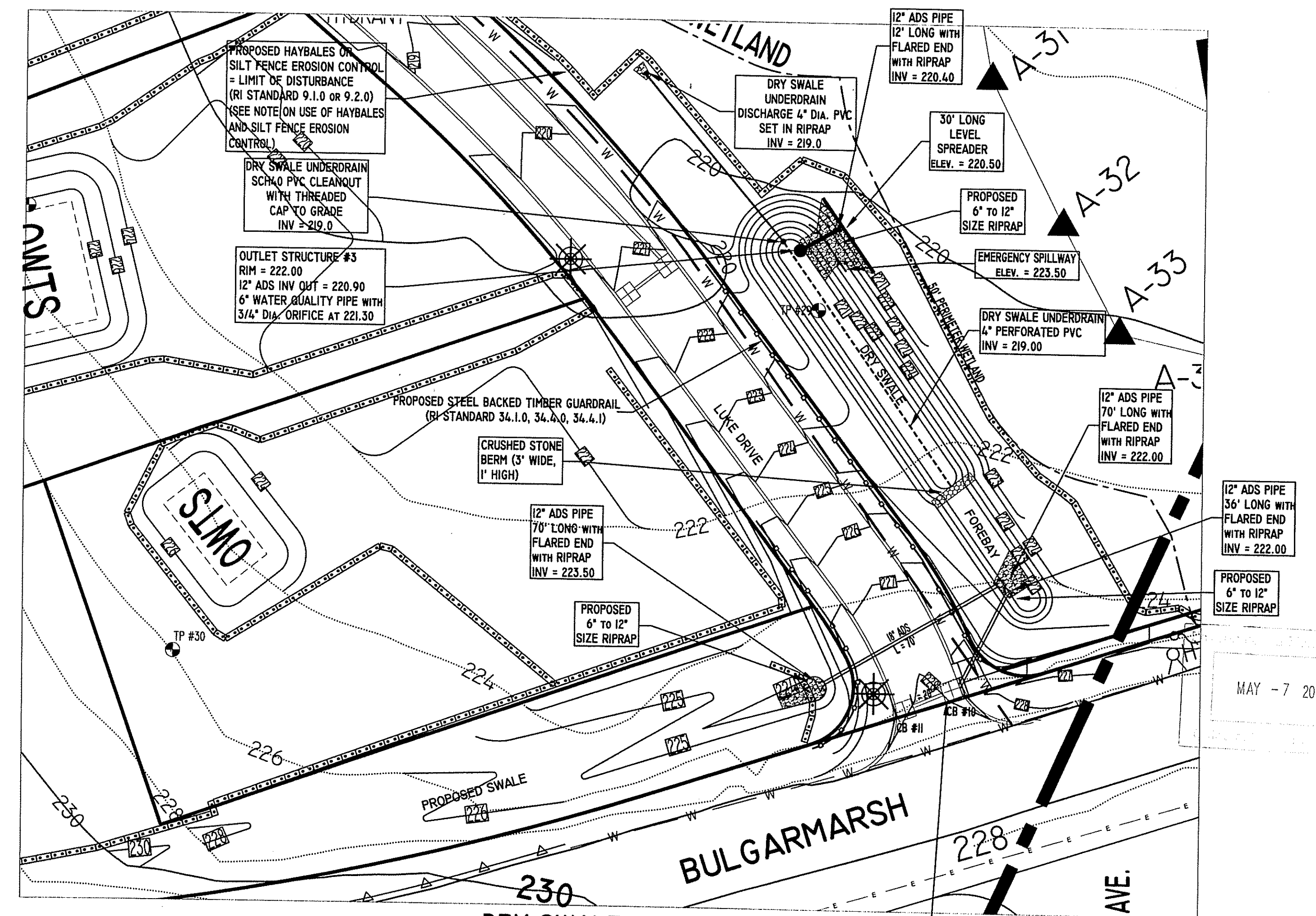
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 16 2013 FILE # 12-005D  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Charles H. Haddock*

FOR PERMIT PURPOSES ONLY  
R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
DETAIL SHEET #2  
**STAFFORD VIEW FARM**  
ASSESSOR'S PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND  
SCALE: AS NOTED DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
34A MAIN STREET P.O. BOX 5323  
LITTLE COMPTON, RI 02857 NEW BEDFORD, MA 02742  
PH: (401) 592-0177 (508) 990-4900  
FAX: (401) 592-0178 EMAIL: wsmithce@aol.com  
SHEET 11 OF 17 JOB#: 10-120

**USE OF HAYBALES AND SILT FENCE EROSION CONTROL SHALL BE AS FOLLOWS:**  
 HAYBALES SHALL BE INSTALLED ALONG BOTTOMS OF ALL SLOPES ABUTTING WETLANDS OR WITHIN WETLAND AREAS.  
 SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE AT THE REAR OF PROPOSED LOTS ON WEST SIDE OF LUKE DRIVE AND EASTERLY SIDE OF MADISON DRIVE.

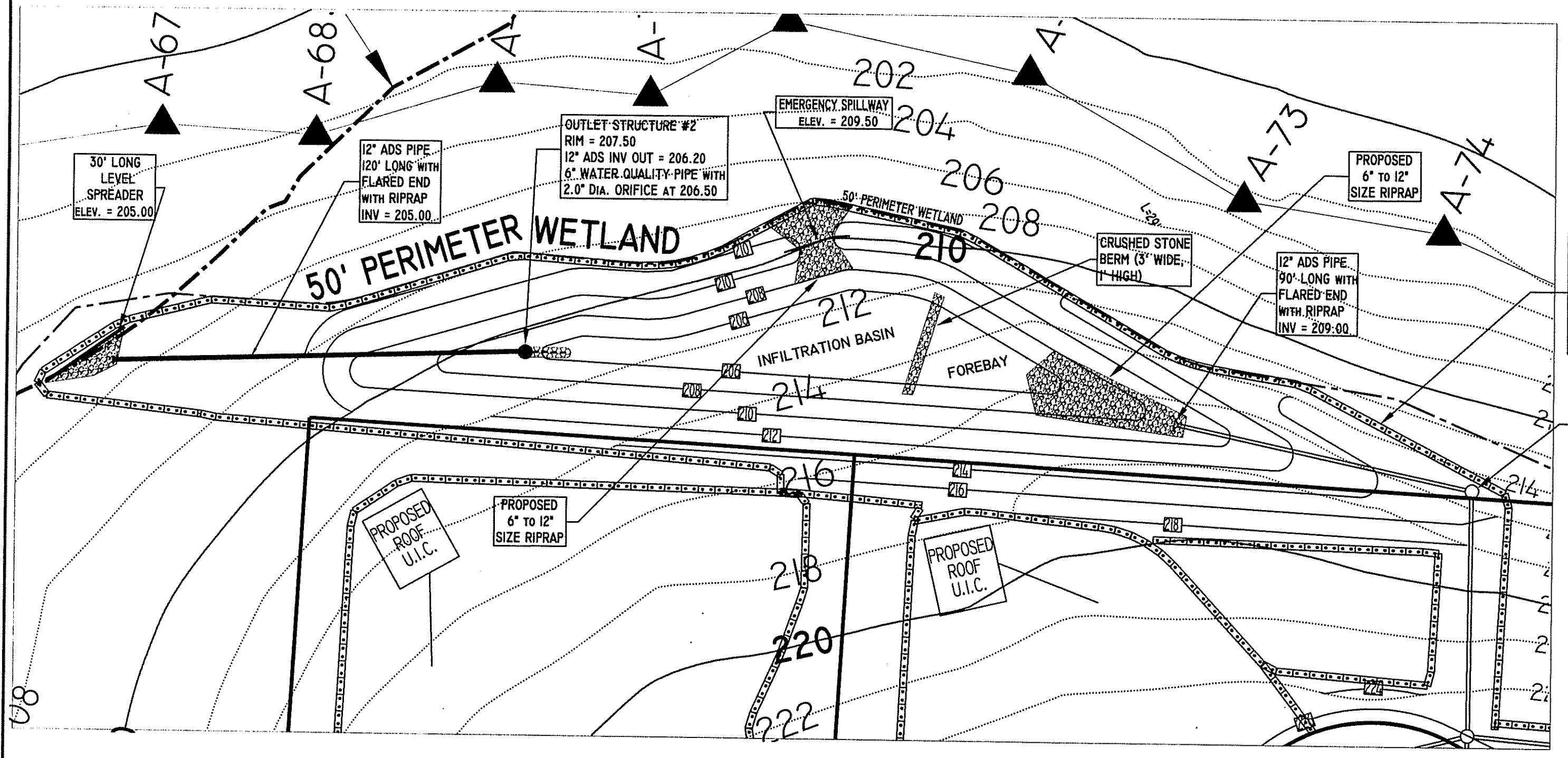


**DRY SWALE #3**  
1" = 30'

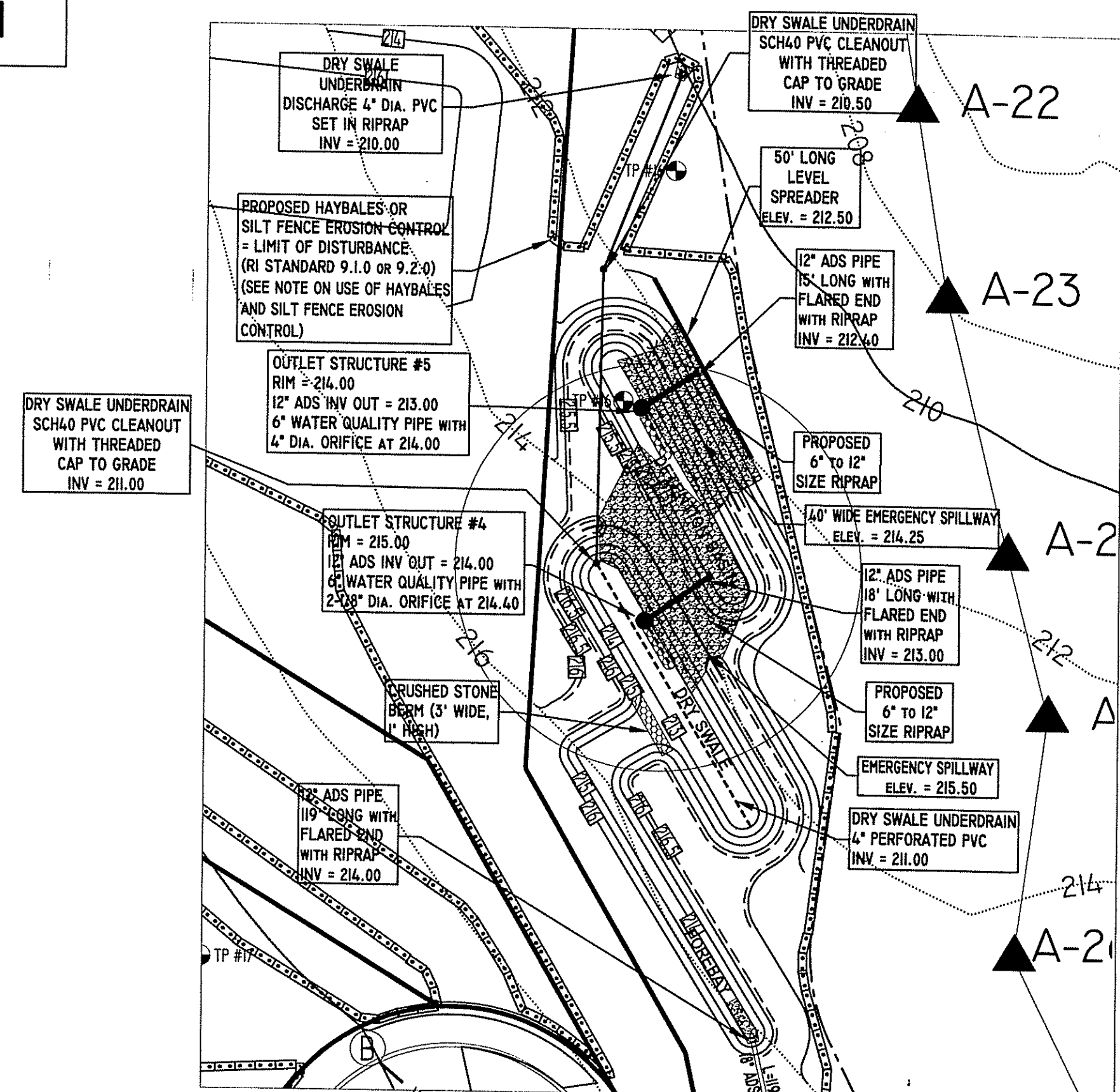


**DRY SWALE #1**  
1" = 30'

**REFER TO DETAILS & ELEVATION SCHEDULE ON SHEET 13 FOR FURTHER INFORMATION**



**INFILTRATION BASIN #1**  
1" = 30'



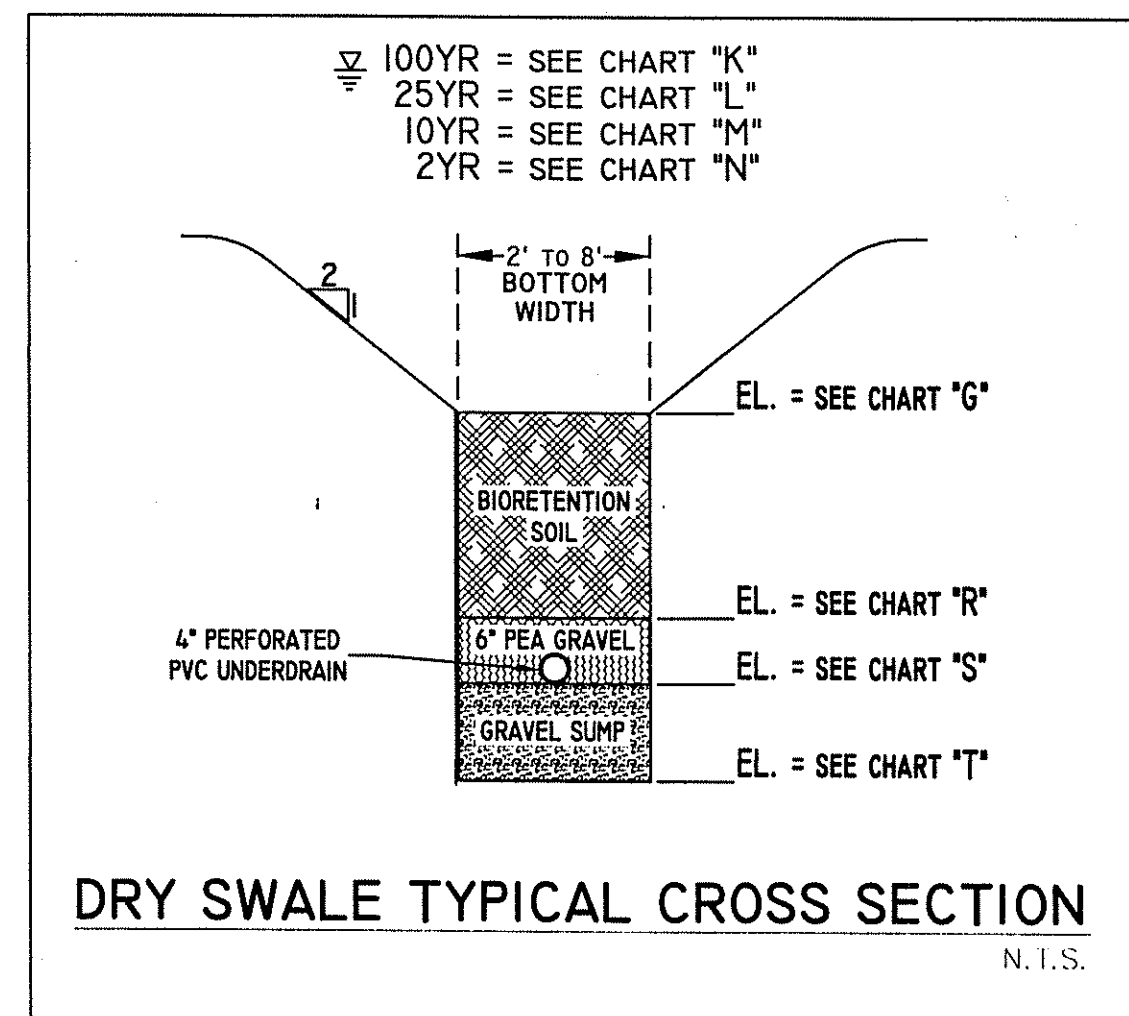
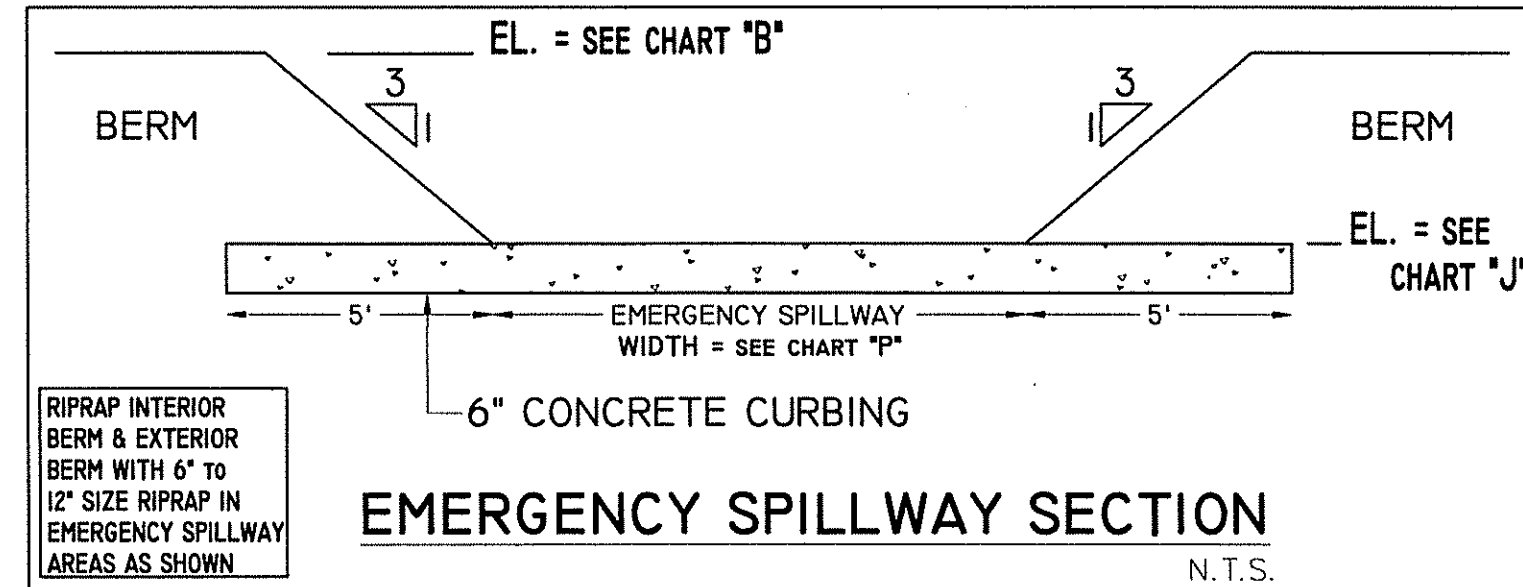
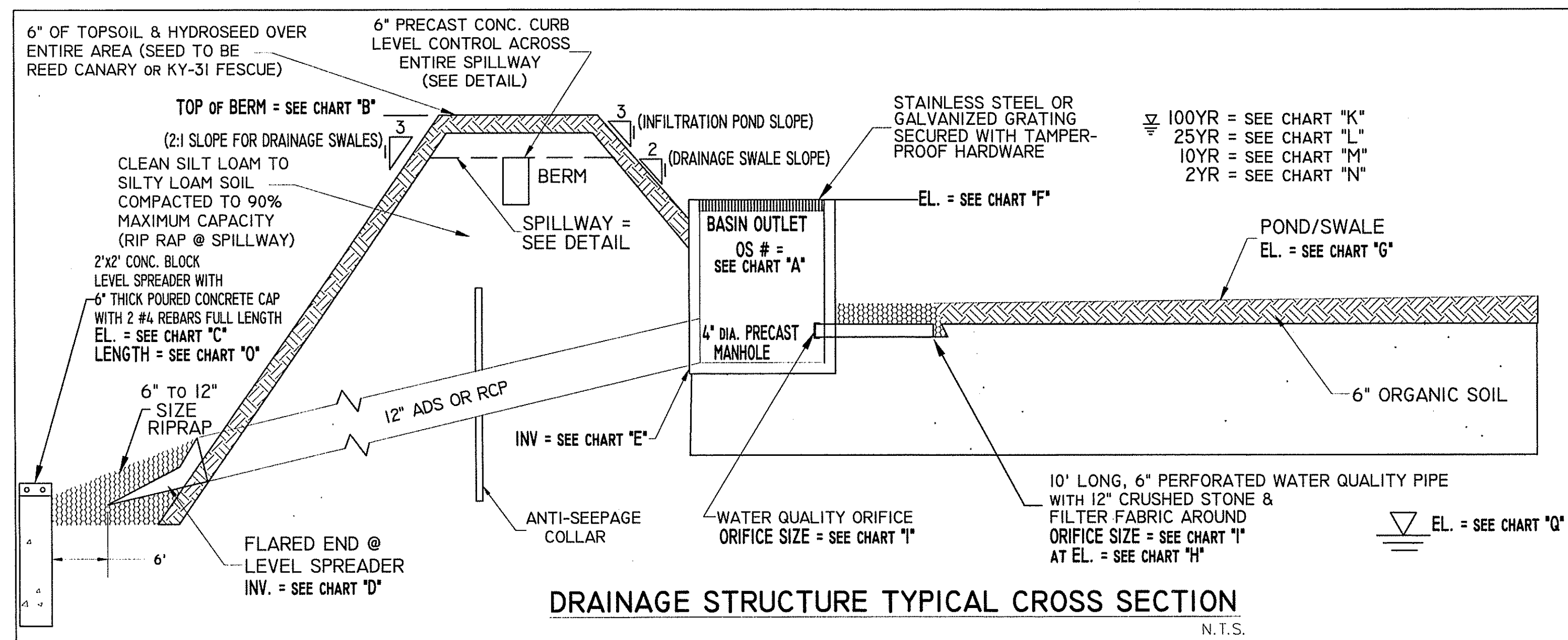
**DRY SWALE #2**  
1" = 30'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP FILE # 12-0050  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

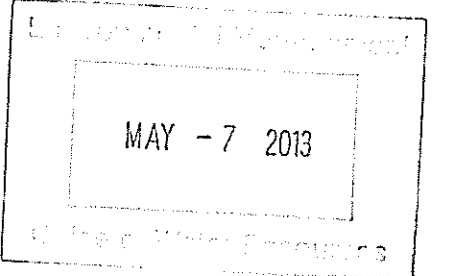
**WILLIAM F. SMITH**  
 No. 60004  
 PROFESSIONAL ENGINEER

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 DRAINAGE DETAIL SHEET #3  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5323  
 LITTLE COMPTON, RI 02887 NEW BEDFORD, MA 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithcecc@aol.com



BIORETENTION SOIL SHALL CONSIST OF THE FOLLOWING:  
 SAND: 80% TO 85%  
 SOIL FINES: 8% TO 12% (WITH NO MORE THAN 2% CLAY)  
 ORGANIC MATTER: 3% TO 5%  
 IRON FILINGS: 5% BY WEIGHT  
 (MINNESOTA FILTER FOR PHOSPHORUS REMOVAL)  
 WELL AGED LEAF COMPOST: 20% BY VOLUME  
 (WELL AGED LEAF COMPOST TO BE AGED 6 TO 12 MONTHS AND BE WELL AERATED)

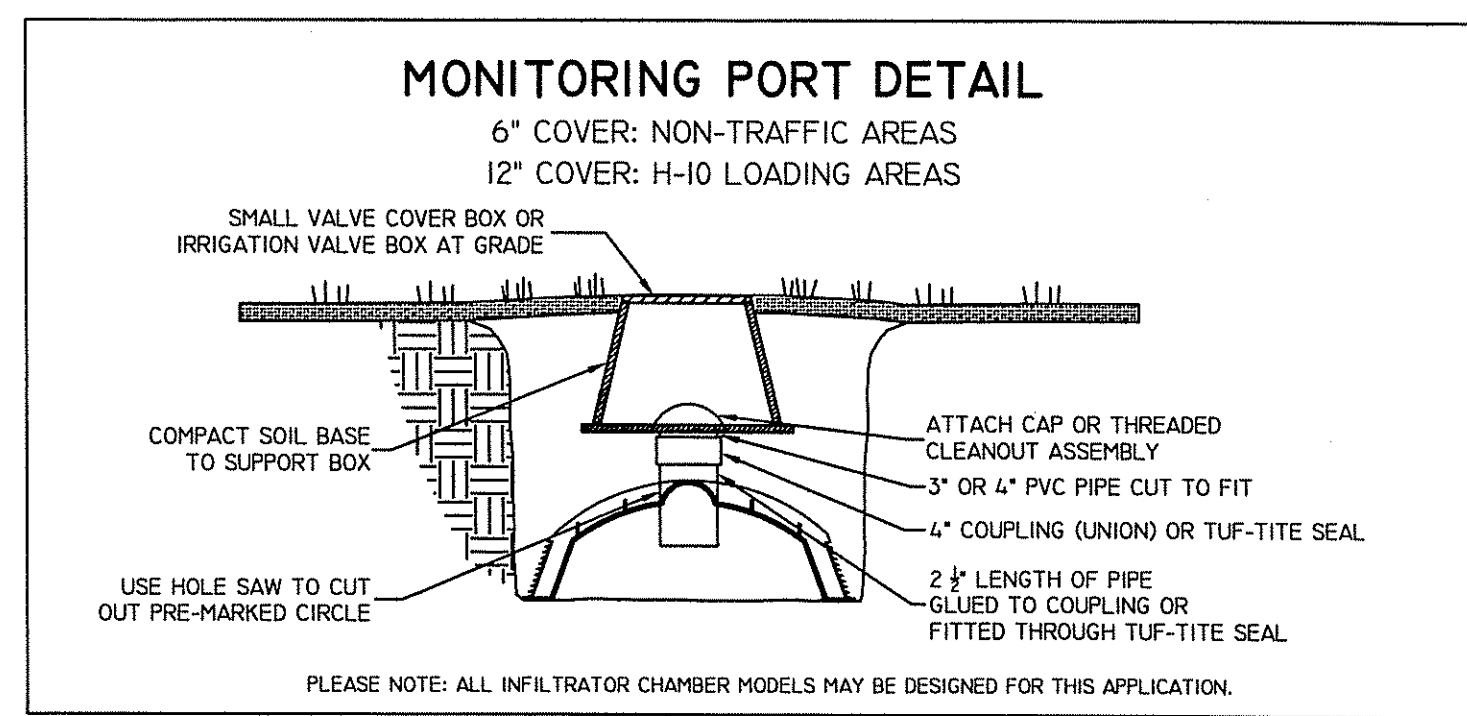
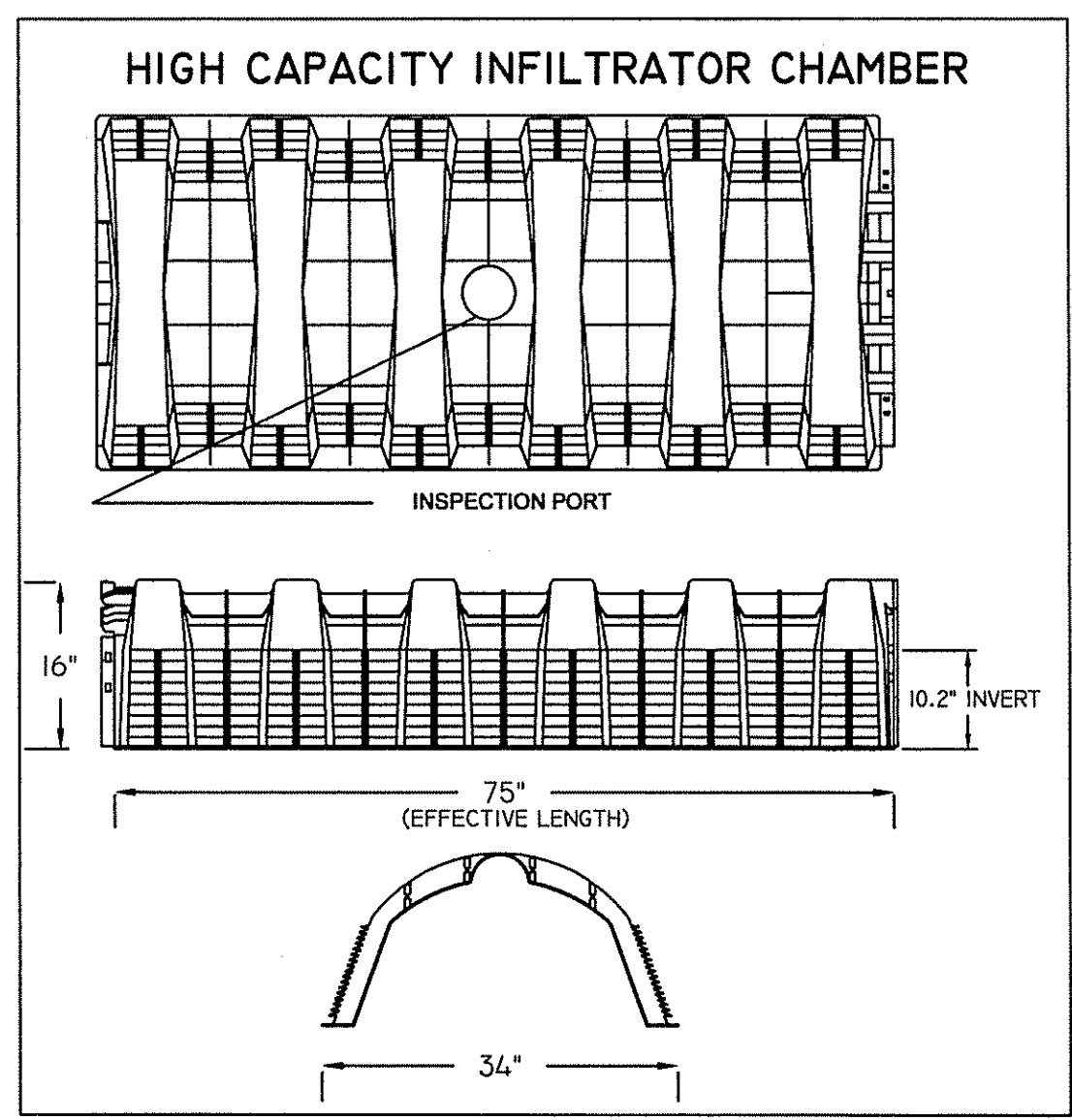
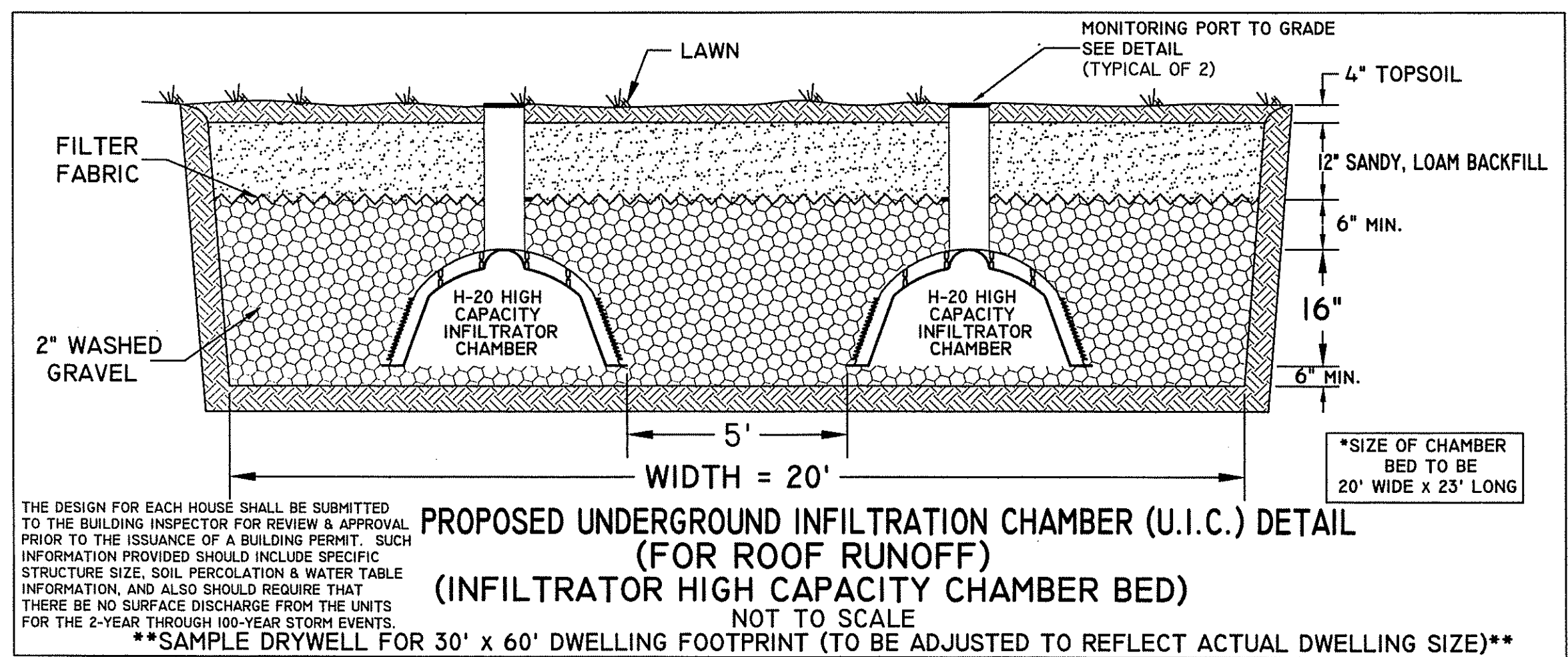
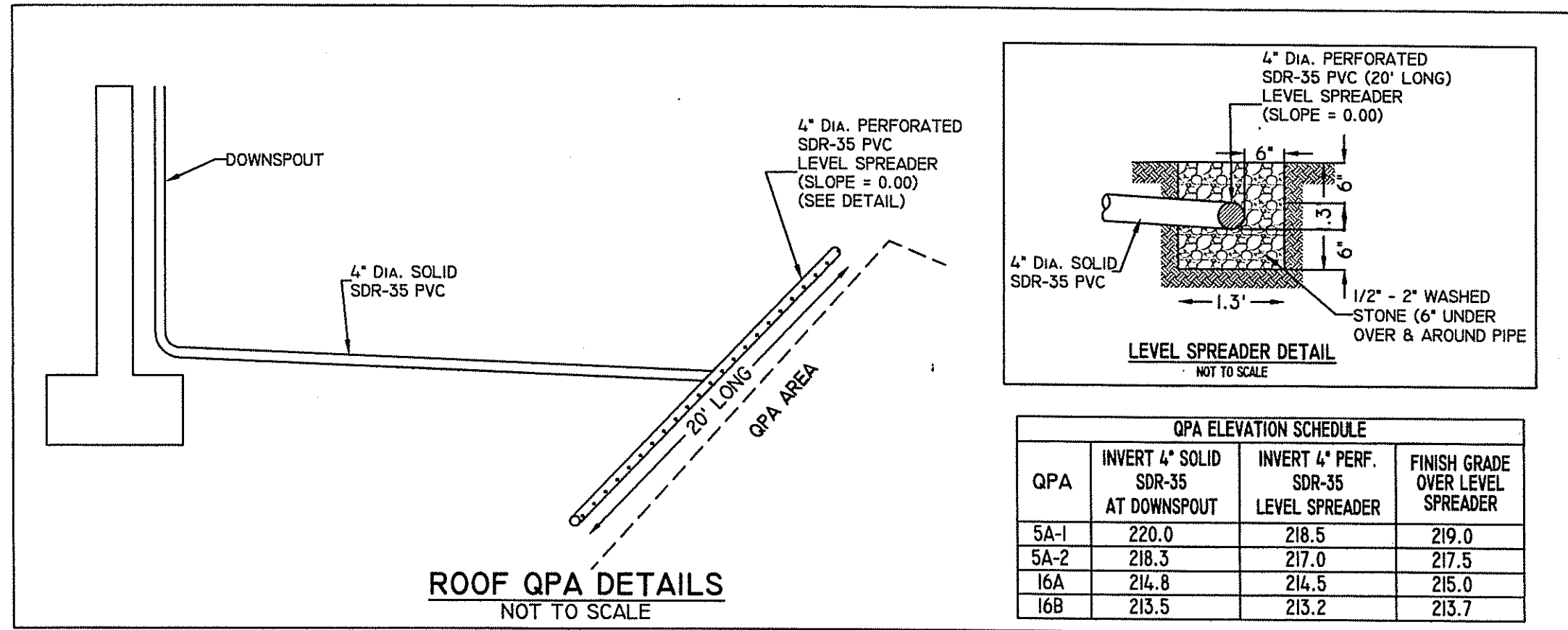
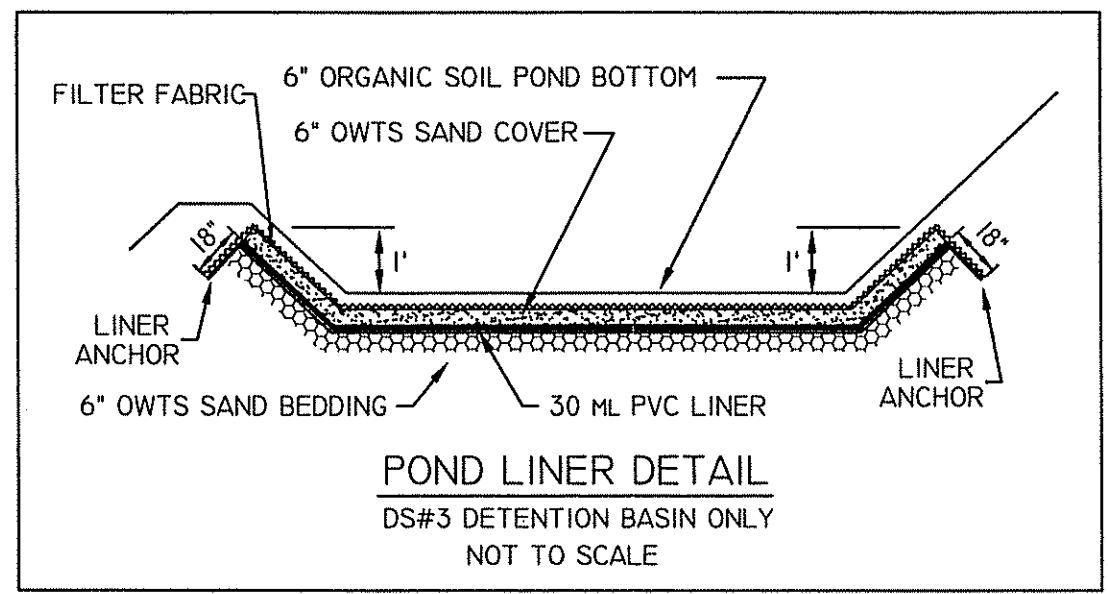


GROUND WATER TABLE TEST RESULTS

TP #1	7'
TP #2	7'
TP #3	6'
TP #4	7'
TP #5	7'
TP #6	7'
TP #7	7'
TP #8	7'
TP #9	7'
TP #10	7'
TP #11	7'
TP #12	7'
TP #13	7'
TP #14	2.5'
TP #15	7'
TP #16	2'
TP #17	6'
TP #18	2.5'
TP #19	7'
TP #20	7'
TP #21	7'
TP #22	7'
TP #23	LEDGE AT 2'
TP #24	LEDGE AT 3'
TP #25	7'
TP #26	2'
TP #27	3'
TP #28	3'
TP #29	2'
TP #30	2.5'
TP #31	4'
TP #32	6'
TP #33	6'
TP #34	10'

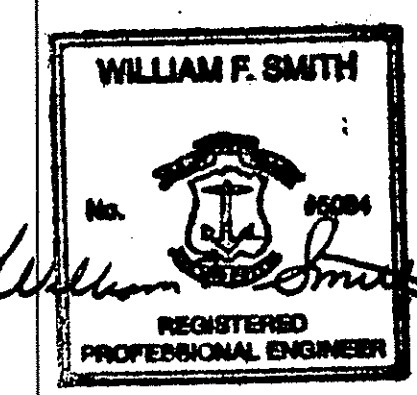
STRUCTURE #	OS #	DRAINS TO	TOP BERM	LEVEL SPREADER ELEV	INVERT AT LEVEL SPREADER	OUTLET STRUCTURE INVERT	OUTLET STRUCTURE RIM	POND/SWALE BOTTOM	6" WQ PIPE INVERT	WQ ORIFICE DIA.	EMERG. SPILLWAY ELEV	100 YR	25 YR	10 YR	2 YR	LEVEL SPREADER LENGTH	EMERG. SPILLWAY WIDTH	TEST PIT # & GWT DEPTH	BOTTOM BIORETENTION SOIL	BOTTOM 6" PEA GRAVEL & 4" PERF. UNDERDRAIN	BOTTOM GRAVEL SUMP
DRY SWALE #3																					
DS#3 DET. BASIN**	1	LEVEL SPREADER	224.50	221.50	221.40	222.00	222.75	222.00	222.25	2.50"	223.00	223.16	222.88	222.41	222.14	30'	30'	TP #14 (2.5')	N/A	N/A	N/A
DS #3 DRY SWALE EAST	6	DS #3 DET. BASIN	226.00	N/A	N/A	223.00	224.50	223.00	223.60	1.00"	225.00	224.82	224.54	223.92	222.83	N/A	20'	TP #14 (2.5')	221.50 (18")	221.00	220.0
DS #3 DRY SWALE WEST	7	DS #3 DET. BASIN	224.50	N/A	N/A	222.25	222.80	222.00	222.20	2.5"	223.50	223.01	222.95	222.92	222.81	N/A	20'	TP #14 (2.5')	220.50 (18")	220.00	219.0
INFILTRATION BASIN #1	2	LEVEL SPREADER	210.00	205.00	205.00	209.00	207.50	206.00	206.50	2.0"	223.50	208.03	207.83	207.65	207.18	30'	10'	TP #22 (7') TP #25 (7')	N/A	N/A	N/A
DRY SWALE #1	3	LEVEL SPREADER	224.50	220.50	AT LS = 220.40	220.90	222.00	221.00	221.30	3/4"	223.50	222.24	222.18	222.15	222.10	30'	12'	TP #29 (2')	219.50 (18")	219.00	218.0
DRY SWALE #2																					
DS #2 DRY SWALE	4	DS #2 DET. BASIN	216.50	N/A	N/A	214.00	215.00	213.00	214.40	2-1/8"	215.20	215.57	215.66	215.47	215.34	N/A	40'	TP #16 (2')	211.50 (18")	211.00	210.0
DS #2 DET. BASIN	5	LEVEL SPREADER	215.50	212.50	AT LS = 212.40	213.00	214.50	213.00	214.00	4"	214.10	214.35	214.39	214.32	215.13	50'	50'	TP #16 (2')	N/A	N/A	N/A

\*\*DETENTION BASIN BOTTOM TO BE LINED WITH 30 MIL. PVC LINER MANUFACTURED BY EPI AND INSTALLED IN ACCORDANCE WITH ASTM D7176-06 (MINIMUM SHEAR STRENGTH 58.4 LB/IN (ASTM D6392) AND MINIMUM PEEL STRENGTH 20 LB/IN (ASTM D6392))

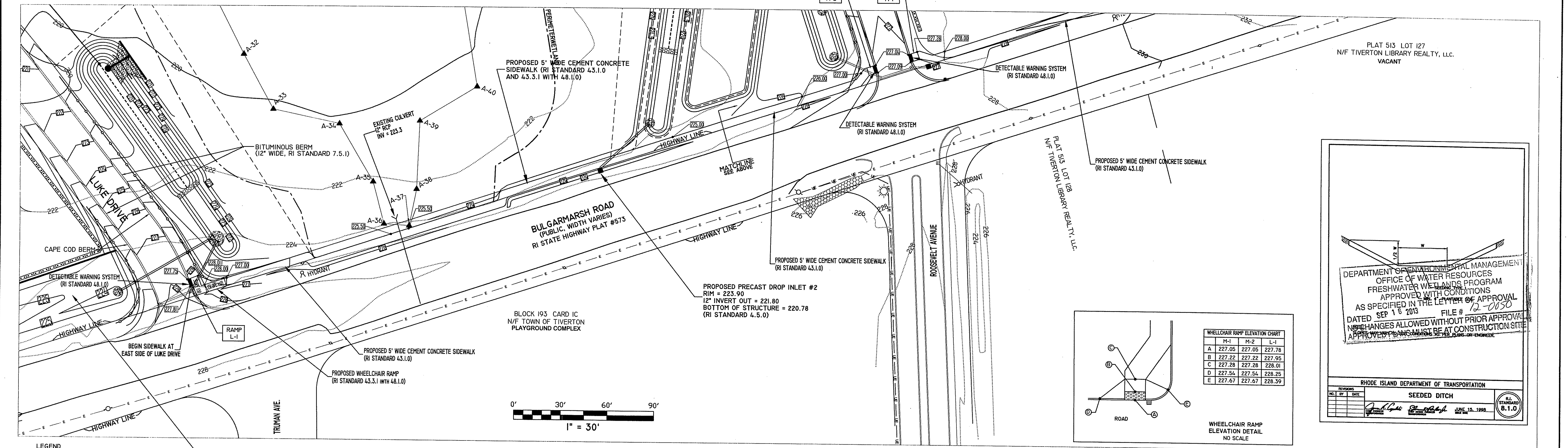
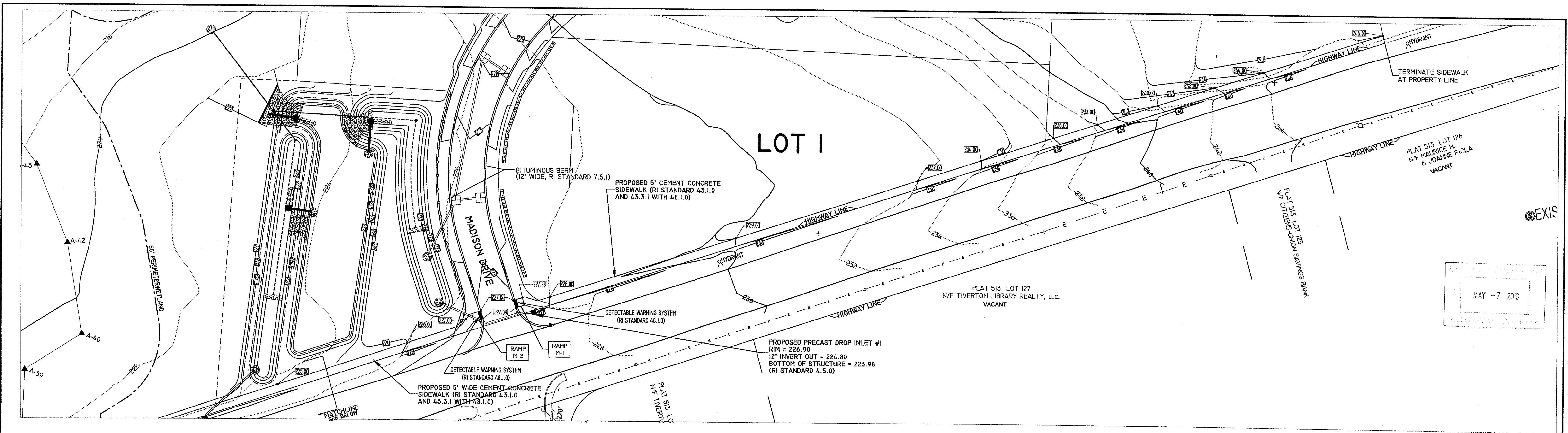


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP 16 2013 FILE # 12-0050  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SIZE  
 Charles A. Hubert

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
 DRAINAGE DETAIL SHEET #4  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND  
 SCALE: AS NOTED DATE: OCTOBER 4, 2011  
 Civil Engineering Concepts, Inc.  
 34A MAIN STREET  
 P.O. BOX 5323  
 LITTLE COMPTON, RI 02883  
 PH: (401) 592-0177  
 FAX: (401) 592-0178  
 EMAIL: wsmithce@aol.com  
 SHEET 13 OF 17

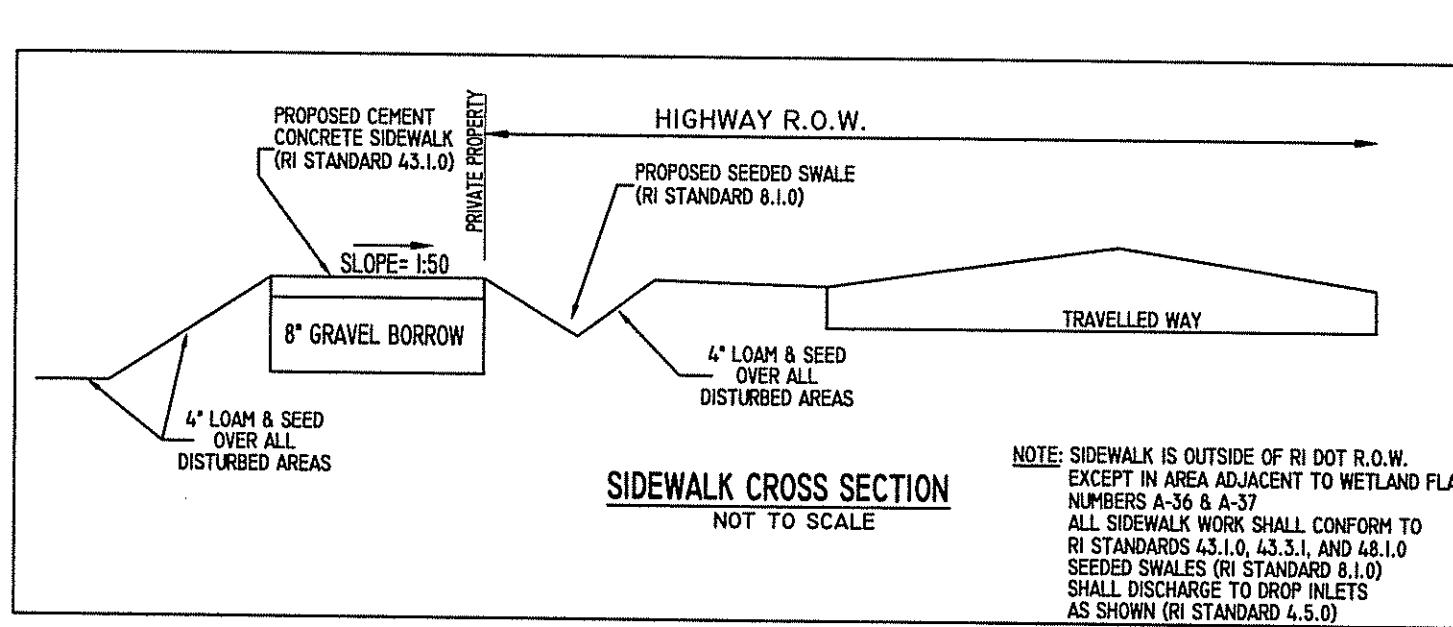
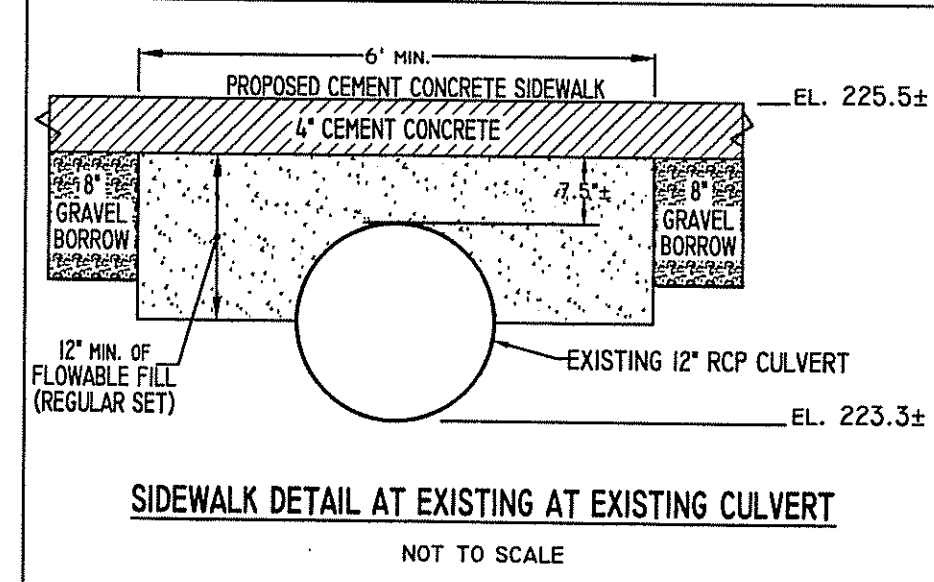


REVISIONS:  
 #7: 04/21/13: ADD DETAIL, REVISE CHART  
 #6: 02/27/13: ADD DETAIL, RENUMBER SHEETS, REV. CHART  
 #5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS  
 #4: 8/29/12: PER REVIEW COMMENTS  
 #3: 7/30/12: REVISE CHART, RENUMBER SHEET  
 #2: 3/12/12: THIS SHEET ADDED TO SET  
 #1: 2/19/12: REVISE DRAINAGE LAYOUTS



- LEGEND**
- 2' --- EXISTING 2' CONTOUR
  - 10' --- EXISTING 10' CONTOUR
  - ▲- APPROXIMATE DELINEATED WETLAND EDGE
  - ▲- 50' PERIMETER WETLAND
  - ▲- 200' NO DEVELOPMENT TOWN POND SETBACK
  - ▲- EXISTING OVERHEAD WIRE UTILITIES
  - ▲- APPROXIMATE WATER MAIN
  - ▲- PROPOSED WATER LINE
  - ▲- PROPOSED CATCH BASIN
  - ▲- PROPOSED BUILDING ENVELOPE
  - ▲- PROPOSED UNDERGROUND UTILITIES
  - ▲- EXISTING MONUMENT
  - ▲- PROPOSED EASEMENT
  - ▲- PROPOSED OVERHEAD WIRE UTILITIES
  - ▲- PROPOSED STREETLIGHT
  - ▲- PROPOSED CONTOUR
  - ▲- PROPOSED HAYBALES OR SILT FENCE = LIMITS OF DISTURBANCE
  - ▲- PROPOSED HOUSE WATER SERVICE
  - ▲- PROPOSED SPOT GRADE

CLEAR AND GRUB ENTIRE SIGHT DISTANCE VIEW EASEMENT TO ALLOW FOR 500 FOOT SIGHT DISTANCE (364 FT REQUIRED). EASEMENT CLEARING TO BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION



WHEELCHAIR RAMP ELEVATION CHART

	M-1	M-2	L-1
A	227.05	227.05	227.78
B	227.22	227.22	227.95
C	227.28	227.28	228.01
D	227.54	227.54	228.25
E	227.67	227.67	228.39

WHEELCHAIR RAMP ELEVATION DETAIL  
NO SCALE

DEPARTMENT OF TRANSPORTATION  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 16 2013 FILE # 12-0050  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED FOR CONSTRUCTION SITE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
SEEDING DITCH  
JUNE 15, 1998  
8.1.0

REFER TO SHEET 10 FOR RIDOT SIDEWALK DETAILS

**WILLIAM F. SMITH**  
REGISTERED PROFESSIONAL ENGINEER

#7: 04/21/13: PER REVIEW COMMENTS  
#6: 02/27/13: PER REVIEW COMMENTS, RENUMBER SHEETS  
#5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS  
#4: 8/29/12: PER REVIEW COMMENTS  
#3: 7/30/12: REVISE ASSESSOR'S DESIGNATION  
#2: 3/12/12: REVISE SHEET #1'S  
#1: 2/9/12: THIS SHEET ADDED TO SET

REVISIONS:

R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN  
SIDEWALK DETAIL SHEET #5  
PREPARED FOR  
**STAFFORD VIEW FARM**  
ASSESSOR'S PLAT 216 LOT 106  
BULGARMARSH ROAD & 8 ROD WAY  
TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: OCTOBER 4, 2011

**Civil Engineering Concepts, Inc.**  
34A MAIN STREET P.O. BOX 5323  
LITTLE COMPTON, RI 02857 NEW BEDFORD, MA 02742  
PH: (401) 592-0177 (508) 990-4900  
FAX: (401) 592-0178 EMAIL: wsmithce@aol.com

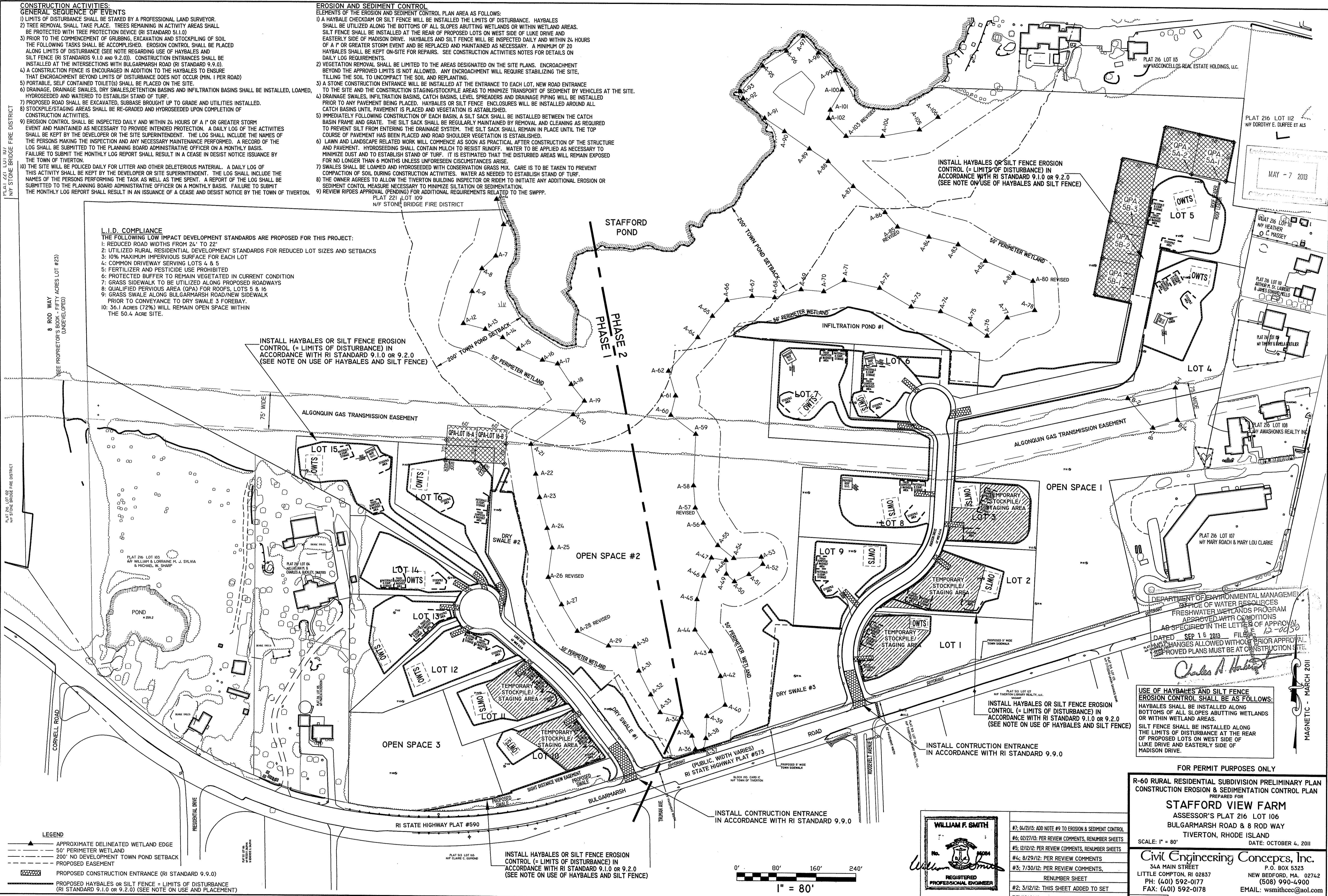
SHEET 14 OF 16 WEBSITE: www.ri-engineer.com JOB#: 10-120

**CONSTRUCTION ACTIVITIES:**  
**GENERAL SEQUENCE OF EVENTS**  
 1) LIMITS OF DISTURBANCE SHALL BE STAKED BY A PROFESSIONAL LAND SURVEYOR.  
 2) TREE REMOVAL SHALL TAKE PLACE. TREES REMAINING IN ACTIVITY AREAS SHALL BE PROTECTED WITH TREE PROTECTION DEVICE (RI STANDARD 51.1.0)  
 3) PRIOR TO THE COMMENCEMENT OF GRUBBING, EXCAVATION AND STOCKPILING OF SOIL THE FOLLOWING TASKS SHALL BE ACCOMPLISHED. EROSION CONTROL SHALL BE PLACED ALONG LIMITS OF DISTURBANCE AND NOTE REGARDING USE OF HAYBALES AND SILT FENCE (RI STANDARDS 9.1.0 AND 9.2.0). CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE INTERSECTIONS WITH BULGARMARSH ROAD (RI STANDARD 9.9.0).  
 4) A CONSTRUCTION FENCE IS ENCOURAGED IN ADDITION TO THE HAYBALES TO ENSURE THAT ENCROACHMENT BEYOND LIMITS OF DISTURBANCE DOES NOT OCCUR (MIN. 1 PER ROAD)  
 5) PORTABLE, SELF CONTAINED TOILET(S) SHALL BE PLACED ON THE SITE.  
 6) DRAINAGE, DRAINAGE SWALES, DRY SWALES, DETENTION BASINS AND INFILTRATION BASINS SHALL BE INSTALLED, LOAMED, HYDROSEEDED AND WATERED TO ESTABLISH STAND OF TURF.  
 7) PROPOSED ROAD SHALL BE EXCAVATED, SUBBASE BROUGHT UP TO GRADE AND UTILITIES INSTALLED.  
 8) STOCKPILE/STAGING AREAS SHALL BE RE-GRADED AND HYDROSEEDED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.  
 9) EROSION CONTROL SHALL BE INSPECTED DAILY AND WITHIN 24 HOURS OF A 1" OR GREATER STORM EVENT AND MAINTAINED AS NECESSARY TO PROVIDE INTENDED PROTECTION. A DAILY LOG OF THE ACTIVITIES SHALL BE KEPT BY THE DEVELOPER OR THE SITE SUPERINTENDENT. THE LOG SHALL INCLUDE THE NAMES OF THE PERSONS MAKING THE INSPECTION AND ANY NECESSARY MAINTENANCE PERFORMED. A RECORD OF THE LOG SHALL BE SUBMITTED TO THE PLANNING BOARD ADMINISTRATIVE OFFICER ON A MONTHLY BASIS. FAILURE TO SUBMIT THE MONTHLY LOG REPORT SHALL RESULT IN A CEASE IN DESIST NOTICE ISSUANCE BY THE TOWN OF TIVERTON.  
 10) THE SITE WILL BE POLICED DAILY FOR LITTER AND OTHER DELETERIOUS MATERIAL. A DAILY LOG OF THIS ACTIVITY SHALL BE KEPT BY THE DEVELOPER OR SITE SUPERINTENDENT. THE LOG SHALL INCLUDE THE NAMES OF THE PERSONS PERFORMING THE TASK AS WELL AS TIME SPENT. A REPORT OF THE LOG SHALL BE SUBMITTED TO THE PLANNING BOARD ADMINISTRATIVE OFFICER ON A MONTHLY BASIS. FAILURE TO SUBMIT THE MONTHLY LOG REPORT SHALL RESULT IN AN ISSUANCE OF A CEASE AND DESIST NOTICE BY THE TOWN OF TIVERTON.

**EROSION AND SEDIMENT CONTROL**  
 ELEMENTS OF THE EROSION AND SEDIMENT CONTROL PLAN AREA AS FOLLOWS:  
 1) A HAYBALE CHECKDAM OR SILT FENCE WILL BE INSTALLED THE LIMITS OF DISTURBANCE. HAYBALES SHALL BE UTILIZED ALONG THE BOTTOMS OF ALL SLOPES ABUTTING WETLANDS OR WITHIN WETLAND AREAS. SILT FENCE SHALL BE INSTALLED AT THE REAR OF PROPOSED LOTS ON WEST SIDE OF LUKE DRIVE AND EASTERLY SIDE OF MADISON DRIVE. HAYBALES AND SILT FENCE WILL BE INSPECTED DAILY AND WITHIN 24 HOURS OF A 1" OR GREATER STORM EVENT AND BE REPLACED AND MAINTAINED AS NECESSARY. A MINIMUM OF 20 HAYBALES SHALL BE KEPT ON-SITE FOR REPAIRS. SEE CONSTRUCTION ACTIVITIES NOTES FOR DETAILS ON DAILY LOG REQUIREMENTS.  
 2) VEGETATION REMOVAL SHALL BE LIMITED TO THE AREAS DESIGNATED ON THE SITE PLANS. ENCROACHMENT BEYOND THE APPROVED LIMITS IS NOT ALLOWED. ANY ENCROACHMENT WILL REQUIRE STABILIZING THE SITE, TILLING THE SOIL TO UNCOMPACT THE SOIL AND REPLANTING.  
 3) A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED AT THE ENTRANCE TO EACH LOT, NEW ROAD ENTRANCE TO THE SITE AND THE CONSTRUCTION STAGING/STOCKPILE AREAS TO MINIMIZE TRANSPORT OF SEDIMENT BY VEHICLES AT THE SITE.  
 4) DRAINAGE SWALES, INFILTRATION BASINS, CATCH BASINS, LEVEL SPREADERS AND DRAINAGE PIPING WILL BE INSTALLED PRIOR TO ANY PAVEMENT BEING PLACED. HAYBALES OR SILT FENCE ENCLOSURES WILL BE INSTALLED AROUND ALL CATCH BASINS UNTIL PAVEMENT IS PLACED AND VEGETATION IS ESTABLISHED.  
 5) IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH BASIN, A SILT SACK SHALL BE INSTALLED BETWEEN THE CATCH BASIN FRAME AND GRATE. THE SILT SACK SHALL BE REGULARLY MAINTAINED BY REMOVAL AND CLEANING AS REQUIRED TO PREVENT SILT FROM ENTERING THE DRAINAGE SYSTEM. THE SILT SACK SHALL REMAIN IN PLACE UNTIL THE TOP COURSE OF PAVEMENT HAS BEEN PLACED AND ROAD SHOULDER VEGETATION IS ESTABLISHED.  
 6) LAWN AND LANDSCAPE RELATED WORK WILL COMMENCE AS SOON AS PRACTICAL AFTER CONSTRUCTION OF THE STRUCTURE AND PAVEMENT. HYDROSEEDING SHALL CONTAIN MULCH TO RESIST RUNOFF. WATER TO BE APPLIED AS NECESSARY TO MINIMIZE DUST AND TO ESTABLISH STAND OF TURF. IT IS ESTIMATED THAT THE DISTURBED AREAS WILL REMAIN EXPOSED FOR NO LONGER THAN 6 MONTHS UNLESS UNFORESEEN CIRCUMSTANCES ARISE.  
 7) SWALES SHALL BE LOAMED AND HYDROSEEDED WITH CONSERVATION GRASS MIX. CARE IS TO BE TAKEN TO PREVENT COMPACTION OF SOIL DURING CONSTRUCTION ACTIVITIES. WATER AS NEEDED TO ESTABLISH STAND OF TURF.  
 8) THE OWNER AGREES TO ALLOW THE TIVERTON BUILDING INSPECTOR OR RIDER TO INITIATE ANY ADDITIONAL EROSION OR SEDIMENT CONTROL MEASURE NECESSARY TO MINIMIZE SILTATION OR SEDIMENTATION.  
 9) REVIEW RIDES APPROVAL (PENDING) FOR ADDITIONAL REQUIREMENTS RELATED TO THE SWPPP.

**L.I.D. COMPLIANCE**

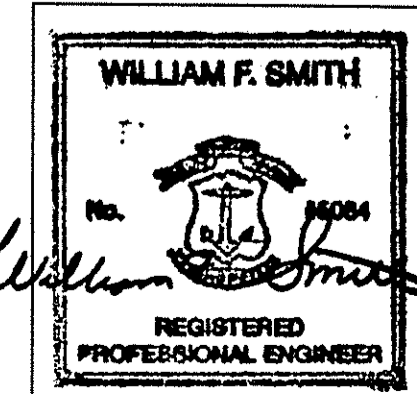
THE FOLLOWING LOW IMPACT DEVELOPMENT STANDARDS ARE PROPOSED FOR THIS PROJECT:  
 1: REDUCED ROAD WIDTHS FROM 24' TO 22'  
 2: UTILIZED RURAL RESIDENTIAL DEVELOPMENT STANDARDS FOR REDUCED LOT SIZES AND SETBACKS  
 3: 10% MAXIMUM IMPERVIOUS SURFACE FOR EACH LOT  
 4: COMMON DRIVEWAY SERVING LOTS 4 & 5  
 5: FERTILIZER AND PESTICIDE USE PROHIBITED  
 6: PROTECTED BUFFER TO REMAIN VEGETATED IN CURRENT CONDITION  
 7: GRASS SIDEWALK TO BE UTILIZED ALONG PROPOSED ROADWAYS  
 8: QUALIFIED PERVIOUS AREA (OPA) FOR ROOFS, LOTS 5 & 16  
 9: GRASS SWALE ALONG BULGARMARSH ROAD/NEW SIDEWALK PRIOR TO CONVEYANCE TO DRY SWALE 3 FOREBAY.  
 10: 36.1 ACRES (72%) WILL REMAIN OPEN SPACE WITHIN THE 50.4 ACRE SITE.



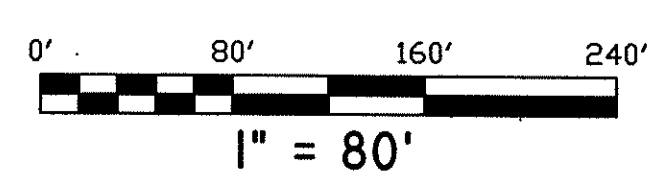
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED SEP 16 2013 FILE # 12-0050  
 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Charles A. Harkley*

**USE OF HAYBALES AND SILT FENCE EROSION CONTROL SHALL BE AS FOLLOWS:**  
 HAYBALES SHALL BE INSTALLED ALONG BOTTOMS OF ALL SLOPES ABUTTING WETLANDS OR WITHIN WETLAND AREAS.  
 SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE AT THE REAR OF PROPOSED LOTS ON WEST SIDE OF LUKE DRIVE AND EASTERLY SIDE OF MADISON DRIVE.

FOR PERMIT PURPOSES ONLY  
**R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN**  
**CONSTRUCTION EROSION & SEDIMENTATION CONTROL PLAN**  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND  
 SCALE: 1" = 80' DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5325  
 LITTLE COMPTON, RI 02887 NEW BEDFORD, MA. 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithccc@aol.com  
 SHEET 15 OF 17 JOB#: 10-120



#7: 04/21/13: ADD NOTE #9 TO EROSION & SEDIMENT CONTROL
#6: 02/27/13: PER REVIEW COMMENTS, RENUMBER SHEETS
#5: 12/12/12: PER REVIEW COMMENTS, RENUMBER SHEETS
#4: 8/29/12: PER REVIEW COMMENTS
#3: 7/30/12: PER REVIEW COMMENTS, RENUMBER SHEET
#2: 3/12/12: THIS SHEET ADDED TO SET
REVISIONS:



**LEGEND**

	APPROXIMATE DELINEATED WETLAND EDGE
	PERIMETER WETLAND
	200' NO DEVELOPMENT TOWN POND SETBACK
	PROPOSED EASEMENT
	PROPOSED CONSTRUCTION ENTRANCE (RI STANDARD 9.9.0)
	PROPOSED HAYBALES OR SILT FENCE (= LIMITS OF DISTURBANCE) (RI STANDARD 9.1.0 OR 9.2.0) (SEE NOTE ON USE AND PLACEMENT)

**RESTRICTIONS**  
 THE FOLLOWING USES ARE PROHIBITED DURING CONSTRUCTION AND FOR FUTURE RESIDENTIAL USE:  
 1) STORAGE OF PETROLEUM OR REFINED PETROLEUM PRODUCTS IN EXCESS OF THAT REQUIRED FOR NORMAL HEATING OF THE STRUCTURES IS PROHIBITED. ANY PETROLEUM STORAGE WILL BE CONSTRUCTED WITHIN A SEALED CONTAINMENT STRUCTURE SIZED TO ADEQUATELY HOLD ANY OR ALL FUEL STORED IN THE PRIMARY CONTAINER.  
 2) STORAGE OF ANY HAZARDOUS WASTE IS PROHIBITED. ONLY NORMAL AMOUNTS OF CLEANING PRODUCTS WILL BE MAINTAINED ON THE PREMISES.  
 3) DISPOSAL OF ANY HAZARDOUS WASTE ON THE SITE IS PROHIBITED.  
 4) THE DISPOSAL OF ANY LIQUID OR LEACHABLE WASTE OTHER THAN DOMESTIC SEWAGE DISCHARGING TO A RIEM APPROVED ON-SITE WASTEWATER TREATMENTS SYSTEM (OWTS) IS PROHIBITED. A TEMPORARY PORTABLE SELF-CONTAINED TOILET WILL BE ALLOWED AND MUST BE CLEANED AND PUMPED AS NEEDED.  
 5) STORAGE OF ROAD SALT OR DE-ICING CHEMICALS IS PROHIBITED UNLESS STORED IN A WATER-TIGHT CONTAINER.  
 6) THE USE OF SEPTIC SYSTEM ADDITIVES, CLEANERS AND/OR ACIDS IS STRICTLY PROHIBITED.  
 7) THE RENDERING IMPROVISED OF MORE THAN 10% OF THE LOT IS PROHIBITED. DRIVEWAYS ARE PROPOSED TO BE PERVIOUS (GRAVEL).  
 8) THE USE OF CHEMICALS FOR DE-ICING ARE PROHIBITED. SAND SHALL BE UTILIZED IN LIEU OF SALT FOR TRACTION IN IY CONDITIONS. DUMPING OF SNOW FROM OFF SITE AREAS IS PROHIBITED.  
 9) THE USE OF PESTICIDES AND FERTILIZERS ARE GENERALLY PROHIBITED.

**VEGETATIVE CLEARING**  
 VEGETATIVE CLEARING SHALL NOT EXTEND BEYOND THE LIMITS OF DISTURBANCE. ANY TREES REMAINING WITHIN THE LIMITS OF DISTURBANCE SHALL BE EQUIPPED WITH A TREE PROTECTION DEVICE (RI STANDARD 4.3.2.0). NO CLEARING BEYOND THE LIMITS OF DISTURBANCE IS PERMITTED.

**ROAD & STORMWATER SYSTEM MAINTENANCE PLAN**  
**MAINTENANCE SCHEDULE AND TASKS**  
 ROUTINE MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM SHALL OCCUR AS FOLLOWS:  
 1) THE PAVED ROADWAY SURFACE AREAS SHALL BE SWEEPED WITH A MOTORIZED STREET SWEEPER AT LEAST TWICE PER YEAR (ON THE SPRING AND LATE FALL) BY THE TOWN OF TIVERTON. THE USE OF FERTILIZERS, CHEMICALS OR WEED KILLER IS NOT PERMITTED. VEGETATION ALONG THE PROPOSED ROAD RIGHT OF WAY AND SIDEWALK THAT IS NOT ADJACENT TO EXISTING LAWNS WILL BE MOVED AT LEAST TWICE YEARLY BY THE TOWN OF TIVERTON. THE DEVELOPER/HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR THIS WORK UNTIL THE TOWN HAS ACCEPTED THE ROADWAYS.  
 2) THE CATCH BASINS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND PHYSICAL CONDITION AT LEAST ANNUALLY WITH REMOVAL BY THE TOWN AS NEEDED. THE DEVELOPER/HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR THIS WORK UNTIL THE TOWN HAS ACCEPTED THE ROADWAYS.  
 3) WHENEVER 2 INCHES OF SILT HAS ACCUMULATED IN THE SWALES THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY. THIS WORK WILL BE ACCOMPLISHED WITHIN 1 YEAR AFTER THE INSTALLATION BY THE DEVELOPER/OWNER AND AT LEAST EVERY 2 YEARS THEREAFTER BY THE HOMEOWNERS ASSOCIATION.  
 4) THE VEGETATED CONDITION DOWNSTREAM OF SURFACE RINOFF SHALL BE INSPECTED ANNUALLY. ANY EROSION OF CHANNELS OR BANKS, ANY EXCESSIVE SEEPAGE OR ANY LOSS OF VEGETATIVE COVER SHALL BE PROMPTLY REPAIRED USING STANDARD LANDSCAPING PRACTICES. MOWING OF SIDE SLOPES OF THE SWALES AND BASINS SHALL BE PERFORMED AT LEAST ONCE DURING GROWING SEASON (AFTER AUGUST 15TH) TO ENSURE THAT WOODY GROWTH DOES NOT TAKE ROOT. ALL TRASH AND DEBRIS WILL BE REMOVED FROM THE SWALES MONTHLY. THIS WORK SHALL BE ACCOMPLISHED BY THE HOMEOWNERS ASSOCIATION.  
 5) THE CATCH BASINS AND LEVEL SPREADER STRUCTURES WILL BE INSPECTED MONTHLY BY THE DEVELOPER FOR THE FIRST 4 MONTHS TO INSURE PROPER OPERATION AND AT LEAST SEMI-ANNUALLY THEREAFTER BY THE HOMEOWNERS ASSOCIATION.  
 6) REFER TO TIVERTON ZONING CODE, ARTICLE VIII, SECTION 3 FOR REQUIREMENTS AND PROHIBITIONS IN THE WATERSHED PROTECTION OVERLAY DISTRICT.  
 7) THE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR ALL MAINTENANCE REQUIRED OF THE SWALES, OUTLET STRUCTURES, LEVEL SPREADERS AND DISCHARGE. THE TOWN OF TIVERTON OR RIEM MAY TAKE APPROPRIATE LEGAL ACTION AGAINST THE HOMEOWNERS ASSOCIATION SHOULD THIS WORK NOT BE ADEQUATELY ACCOMPLISHED. THE MAINTENANCE REQUIREMENTS WILL BE RECORDED IN THE DEEDS WITH THE LOTS.

PLAT 221 LOT 107  
 N/F STONE BRIDGE FIRE DISTRICT

SEE PROPRIETOR'S BOOK - FIFTY ACRES LOT #23  
 8' ROAD WAY  
 (UNDEVELOPED)

PLAT 216 LOT 82  
 N/F STONE BRIDGE FIRE DISTRICT

PLAT 216 LOT 103  
 N/F WILLIAM V. LORIGONE P.C. & MICHAEL W. SHARP

PLAT 216 LOT 105  
 N/F CLARE C. GUARD

PLAT 216 LOT 107  
 N/F MARY ROACH & MARY LOU CLARKE

PLAT 216 LOT 108  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 109  
 N/F DOROTHY E. DURFEE ET AL

PLAT 216 LOT 110  
 N/F VASCONCELLOS REAL ESTATE HOLDINGS, LLC

PLAT 216 LOT 111  
 N/F HEATHER O. C. MASSEY

PLAT 216 LOT 112  
 N/F DOROTHY E. DURFEE ET AL

PLAT 216 LOT 113  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 114  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 115  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 116  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 117  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 118  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 119  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 120  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 121  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 122  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 123  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 124  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 125  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 126  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 127  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 128  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 129  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 130  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 131  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 132  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 133  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 134  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 135  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 136  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 137  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 138  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 139  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 140  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 141  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 142  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 143  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 144  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 145  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 146  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 147  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 148  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 149  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 150  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 151  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 152  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 153  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 154  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 155  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 156  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 157  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 158  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 159  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 160  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 161  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 162  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 163  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 164  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 165  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 166  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 167  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 168  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 169  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 170  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 171  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 172  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 173  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 174  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 175  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 176  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 177  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 178  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 179  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 180  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 181  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 182  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 183  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 184  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 185  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 186  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 187  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 188  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 189  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 190  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 191  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 192  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 193  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 194  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 195  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 196  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 197  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 198  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 199  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 200  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 201  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 202  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 203  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 204  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 205  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 206  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 207  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 208  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 209  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 210  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 211  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 212  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 213  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 214  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 215  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 216  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 217  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 218  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 219  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 220  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 221  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 222  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 223  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 224  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 225  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 226  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 227  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 228  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 229  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 230  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 231  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 232  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 233  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 234  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 235  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 236  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 237  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 238  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 239  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 240  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 241  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 242  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 243  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 244  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 245  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 246  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 247  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 248  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 249  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 250  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 251  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 252  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 253  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 254  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 255  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 256  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 257  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 258  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 259  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 260  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 261  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 262  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 263  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 264  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 265  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 266  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 267  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 268  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 269  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 270  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 271  
 N/F AWASHONK REALTY INC.

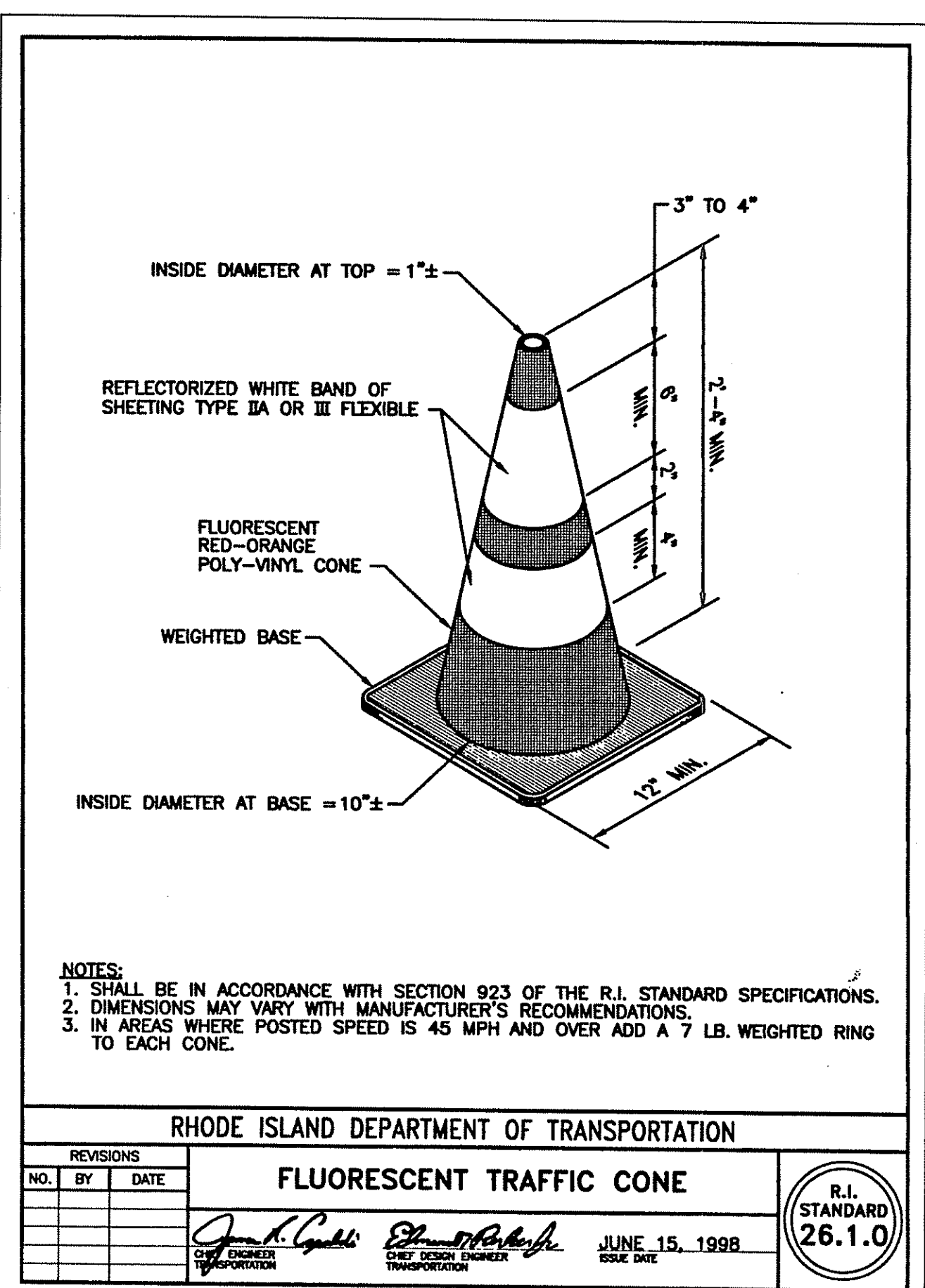
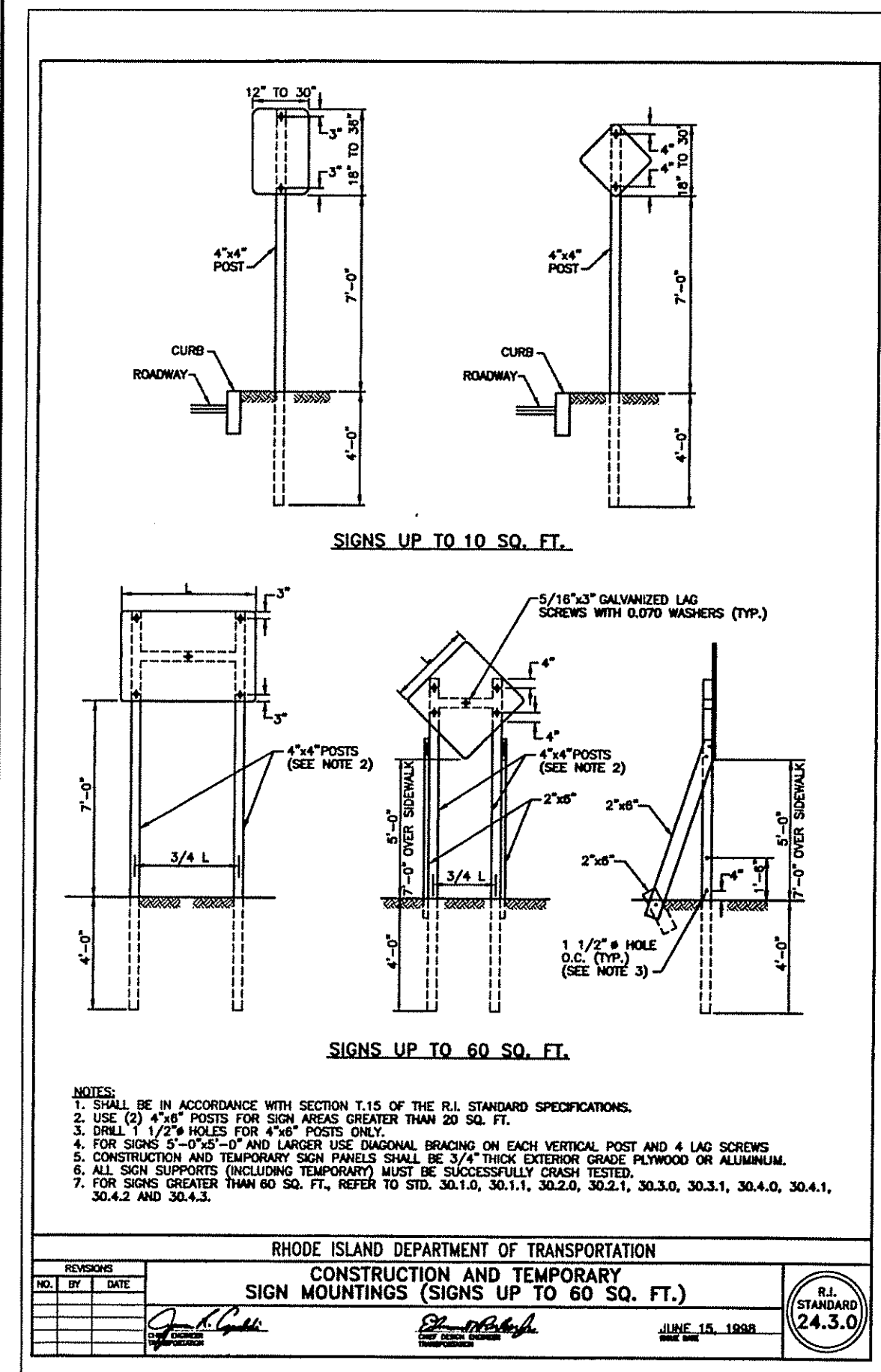
PLAT 216 LOT 272  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 273  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 274  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 275  
 N/F AWASHONK REALTY INC.

PLAT 216 LOT 276  
 N/F AWASHONK REALTY INC.



REVISIONS  
 NO. BY DATE  
 RHO DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION SIGNS  
 JUNE 15, 1998  
 R.I. STANDARD 29.1.0

SIGN NUMBER	W21-4	W20-2	W20-3	W20-4
<b>LEGEND</b>				
<b>COLOR</b>	ORANGE	ORANGE	ORANGE	ORANGE
<b>BACKGROUND COPY</b>	BLACK	BLACK	BLACK	BLACK
<b>DIMENSION</b>	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"
	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"

SIGN NUMBER	W20-5 (R OR L)	W20-7	W20-7a	G20-1
<b>LEGEND</b>				
<b>COLOR</b>	ORANGE	ORANGE	ORANGE	ORANGE
<b>BACKGROUND COPY</b>	BLACK	BLACK	BLACK	BLACK
<b>DIMENSION</b>	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"	WIDTH: 30", 36", 48", 96"
	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"	HEIGHT: 30", 36", 48", 96"

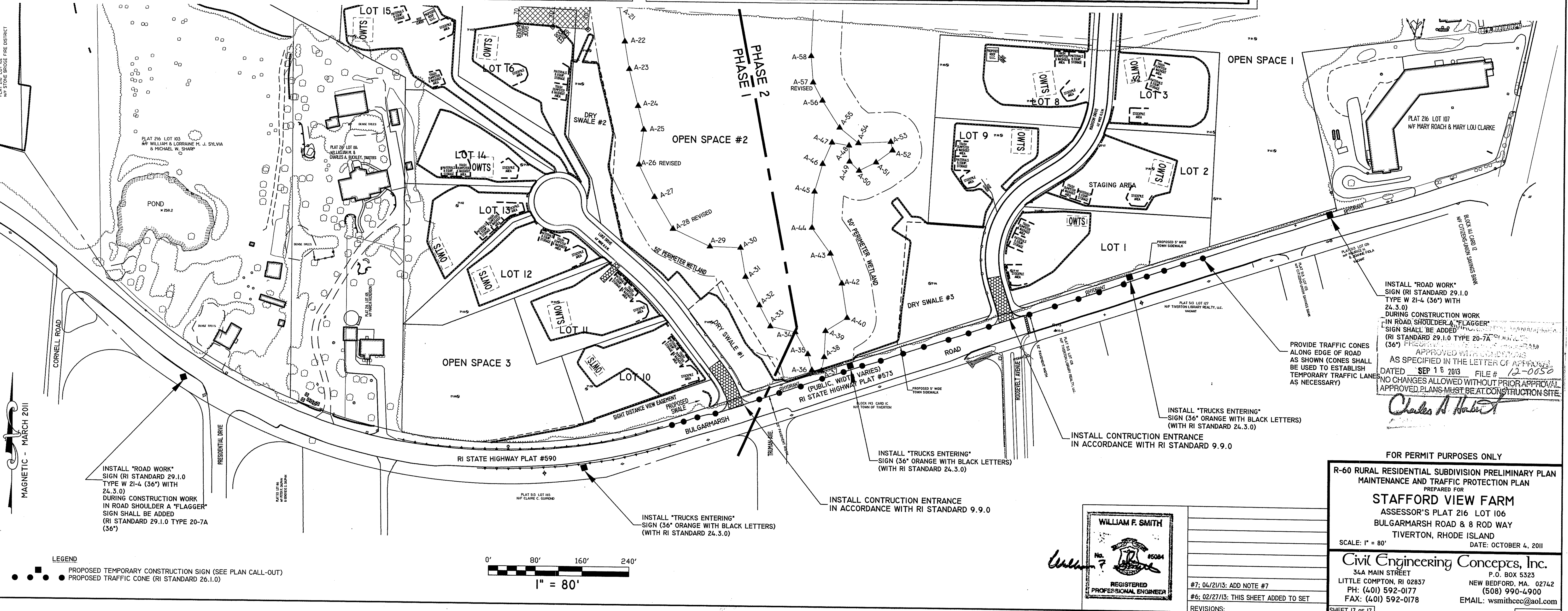
  

SIGN NUMBER	G20-2A
<b>LEGEND</b>	
<b>COLOR</b>	ORANGE
<b>BACKGROUND COPY</b>	BLACK
<b>DIMENSION</b>	WIDTH: 48"
	HEIGHT: 24"

**NOTES:**  
 1. SHALL BE IN ACCORDANCE WITH SECTION 922 OF THE R.I. STANDARD SPECIFICATIONS.  
 2. LEGEND ON W20-SERIES SHALL INDICATE DISTANCE AS FOLLOWS: 1500 FT 1/2 MILE, 1000 FT 1 MILE, 500 FT AHEAD  
 3. \* DENOTES TYPE V GRADE SHEETING.  
 4. CONSTRUCTION SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. 24.1.0, 24.2.0 OR 24.3.0.  
 5. FOR ADDITIONAL SIGNS SEE THE MUTCD.

- NOTES**
- ALL WORK WITHIN THE STATE HIGHWAY R.O.W. SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, INCLUDING ALL REVISIONS AND THE RHODE ISLAND STANDARD DETAILS.
  - ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009, INCLUDING ALL REVISIONS.
  - IT IS THE CONTRACTORS RESPONSIBILITY, AS REQUIRED BY LAW, TO NOTIFY DIG SAFE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. FLAG PERSONS/POLICE DETAIL SHALL BE ON SITE DURING WORK WITHIN THE ROUTE 177 RIGHT OF WAY. ADEQUATE SIGNAGE WARNING APPROACHING VEHICLES OF WORK ZONE IS REQUIRED PRIOR TO ANY WORK WITHIN ROUTE 177 RIGHT OF WAY. TRAFFIC CONES SHALL BE USED TO ESTABLISH TEMPORARY TRAVEL LANES FOR ALL TRAFFIC DURING CONSTRUCTION ACTIVITY.
  - RIDOT AND PUBLIC SAFETY OFFICIALS SHALL RESERVE THE RIGHT TO MODIFY AND REQUIRE ADDITIONAL TRAFFIC CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.
  - POLICE DETAILS OR FLAGGERS SHALL BE REQUIRED FOR ALL WORK OCCURRING IN THE ROAD SHOULDER. CONSTRUCTION SIGNAGE SHALL BE CHANGED AND/OR ADDED TO REFLECT THE USE OF FLAGGERS.
  - REFER TO RIDOT PAPA #120319-A (PENDING) FOR ADDITIONAL REQUIREMENTS.

MAY - 7 2013  
 OFFICE OF PUBLIC UTILITIES



INSTALL "ROAD WORK" SIGN (RI STANDARD 29.1.0 TYPE W 21-4 (36") WITH 24.3.0)  
 DURING CONSTRUCTION WORK IN ROAD SHOULDER A "FLAGGER" SIGN SHALL BE ADDED (RI STANDARD 29.1.0 TYPE 20-7A (36") FREQUENCY 1000 FT)  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 APPROVED WITH CONDITIONS  
 SEP 15 2013 FILE # 12-0050  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Charles H. Haber

FOR PERMIT PURPOSES ONLY  
**R-60 RURAL RESIDENTIAL SUBDIVISION PRELIMINARY PLAN MAINTENANCE AND TRAFFIC PROTECTION PLAN**  
 PREPARED FOR  
**STAFFORD VIEW FARM**  
 ASSESSOR'S PLAT 216 LOT 106  
 BULGARMARSH ROAD & 8 ROD WAY  
 TIVERTON, RHODE ISLAND  
 SCALE: 1" = 80'  
 DATE: OCTOBER 4, 2011  
**Civil Engineering Concepts, Inc.**  
 34A MAIN STREET P.O. BOX 5323  
 LITTLE COMPTON, RI 02857 NEW BEDFORD, MA. 02742  
 PH: (401) 592-0177 (508) 990-4900  
 FAX: (401) 592-0178 EMAIL: wsmithccc@aol.com  
 SHEET 17 OF 17

WILLIAM F. SMITH  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 75084

REVISIONS:  
 #7: 04/21/13: ADD NOTE #7  
 #6: 02/27/13: THIS SHEET ADDED TO SET