DEPT. FILE COPY

BUILDING PERMIT

AMOUNT PAID

VALIDATION

APPLICANT Alexander Partridge DATE February 8, 2005 PERMIT NO. 05056

ADDRESS

PERMIT TO Addition/Alteration (TYPE OF IMPROVEMENT) NO. STORY (PROPOSED USE) NUMBER OF DWELLING UNITS

AT LOCATION 57 Depot Road (NO.) (STREET) ZONING DISTRICT R40

BETWEEN (CROSS STREET) AND (CROSS STREET)

SUBDIVISION Map 31.2 Parcel 44.1 Zone X LOT BLOCK LOT SIZE 14020 sqft

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTIO

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION (TYPE)

REMARKS 34x28 addition to existing building, septic upgrade

AREA OR VOLUME (CUBIC/SQUARE FEET) ESTIMATED COST $ 30000 PERMIT FEE $ 215.00

OWNER Alexander Partridge

ADDRESS

BUILDING OFFICIAL BY Roger Lapointe

DEPARTMENTAL APPROVAL FOR CERTIFICATE of OCCUPANCY and COMPLIANCE

It is to be filed in by each division indicated herein upon completion of its final inspection.

BUILDINGS Permit No.
Approved by Roger Lapointe Date 4-27-07
Remarks

PLUMBING Permit No.
Approved by Date
Remarks

ELECTRICAL Permit No.
Approved by Date 3-30-07
Remarks

OTHER Permit No.
Approved by Date 4-27-07
Remarks

INSPECTION DEPARTMENT

TRANSMITTAL FORM FOR THE FIRE DEPT.

Applicants name: Alexandra Partridge

Project Location: 57 Depot Rd

Project Description: Addition

Approved for transmittal: Roger [illegible] Date: 11-16-04

Type of heat: gas Fire dept. permit # SH-260-05

Remarks:

Approved by: [illegible] Date: 11-16-04

TOWN OF BOURNE

INSPECTOR'S DEPARTMENT
24 PERRY AVENUE
BUZZARDS BAY, MA 02532

APPLICATION FOR BUILDING PERMIT

DATE: 11-16-04 LOG # 04932 FEE $ 213.00

OWNERSHIP

OWNER'S NAME: ALEXANDER PARTRIDGE
MAILING ADDRESS: PO Box 230 CATAUMET, MA 02534
PHONE #: 508-294-5558

PROJECT LOCATION

ADDRESS OF PROJECT: 57 Depot Rd. Cataumet
LOT #:

ENGINEERING DEPARTMENT USE ONLY

ASSESSOR'S INFORMATION:
MAP 51.2 PARCEL 44.1 LOT A
ZONING INFORMAITON:
DISTRICT R-40 WATER RES. YES OVERLAY No
RECORDED YES TOWN SEWER No FLOOD ZONE X
WETLANDS WITHIN 100' No ELEVATION -
AREA 14,030± S.F. FRONTAGE 78.83'

PROPOSED USE

(RESIDENTIAL) NON-RESIDENTIAL

TYPE OF IMPROVEMENT (Please Check)

	Commercial Building		Single Family
____	Two or more family (____# of units)	____	Condominium
____	Repair/Replacement	_X_	Addition/Alteration
____	Foundation Only	____	Demolition (Interior/Exterior)
____	Fence	____	Shed
____	Garage	____	Sign
__	Chimney/Fireplace	__	Wood/Coal Stove
___	Siding/Roofing		Deck
____	Home Occupation	____	Pool
____	Other ____	____	Land Alteration(Bogs,excavation,etc)

DESCRIPTION OF PROJECT

34'X28' ADDITION TO EXISTING BUILDING.
COMPLETE SEPTIC SYSTEM UPGRADE.

BUILDING CHARACTERISTICS

DIMENSIONS:

	1st FLOOR	2nd FLOOR	3rd FLOOR	OTHER
Length	34'	34'		
Width	28'	28'		
Ells or Additions	8'X10'			
Total sq. ft. per floor	1032	604		

Garage ____ x ____ Sq. ft. of Garage ____ Total sq. ft. of bldg 1636

NUMBER OF STORIES	2	NUMBER OF BEDROOMS	3
HEIGHT (to highest point)	25'	NUMBER OF BATHROOMS	2
% TOTAL LOT COVERAGE	6.75	NUMBER OF KITCHENS	1

HEAT

GAS X OIL ____ ELECTRIC ____ OTHER ____

COMMERCIAL USE

NO OF PARKING SPACES		NO HANDICAPPED SPACES	
TYPE OF CONSTRUCTION		SPRINKLER SYSTEM YES/NO	
USE GROUP		ELEVATOR YES/NO	

SETBACK DISTANCE

48 FT. FROM FRONT
15 FT. FROM LEFT
96 FT. FROM REAR
33 FT. FROM RIGHT

COST

COST OF CONSTRUCTION:	$ 100,000
ELECTRICAL:	$ 2,000
PLUMBING:	$ 3,000
HEATING:	$ 5,000
OTHER:	
TOTAL VALUE OF CONSTRUCTION:	$ 100,000
ASSESSED VALUE OF BUILDING:	$ 36,000
TAX STATUS:	
CHECKED BY:	DATE:

STRUCTURE SUBJECT TO CONSTRUCTION CONTROL

ENGINEER / ARCHITECT:

CONTRACTOR:

APPLICANT SIGNATURE

OWNER: Colin M Patton

MAILING ADDRESS: PO Box 250 Cataumet, MA, 02534

TELEPHONE NO: 508-294-5558

CONTRACTOR:

MAILING ADDRESS:

TELEPHONE NO:

CONTRACTOR'S LICENSE NO: REMODELER'S REG NO:

SITE PLAN: SPECIAL PERMIT: VARIANCE:

SEWER DEPARTMENT:

BOARD OF HEALTH

CONSERVATION COMMISSION

REMARKS:

APPROVED BY INSPECTOR OF BUILDINGS DATE 2-1-05

COST	
COST OF CONSTRUCTION:	$ 100,000
ELECTRICAL:	$ 2,000
PLUMBING:	$ 3,000
HEATING:	$ 5,000
OTHER:	
TOTAL VALUE OF CONSTRUCTION:	$ 100,000
ASSESSED VALUE OF BUILDING:	$ 36,000
TAX STATUS:	
CHECKED BY:	DATE:

STRUCTURE SUBJECT TO CONSTRUCTION CONTROL

ENGINEER / ARCHITECT:

CONTRACTOR:

APPLICANT SIGNATURE

OWNER: Alan M. Walton

MAILING ADDRESS: PO Box 230 Cataumet, MA, 02534

TELEPHONE NO: 508-294-5558

CONTRACTOR:

MAILING ADDRESS:

TELEPHONE NO:

CONTRACTOR'S LICENSE NO: REMODELER'S REG NO:

SITE PLAN: SPECIAL PERMIT: VARIANCE:

SEWER DEPARTMENT:

BOARD OF HEALTH

Ok - septic permit # 4530-04

CAC 2/7/05

CONSERVATION COMMISSION

REMARKS:

APPROVED BY INSPECTOR OF BUILDINGS DATE 2-7-05

Permit Number

Checked By/Date

MEC*check* Compliance Report
Massachusetts Energy Code

MEC*check* Software Version 3.3 Release 1c
Data filename: C:\Program Files\Check\MECcheck\Partridge.cck

CITY: Bourne
STATE: Massachusetts
IECC: 6297
CONSTRUCTION TYPE: 1 or 2 Family, Detached
HEATING SYSTEM TYPE: Other (Non-Electric Resistance)

DATE: 10/18/04
DATE OF PLANS: 10/15/04

PROJECT INFORMATION:
Partridge Residence
57 Depot Rd.
Cataumet,Ma.

COMPLIANCE: Passes

Maximum UA = 365
Your Home = 345
5.5% Better Than Code

	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	1032	30.0	0.0		36
Wall 1: Wood Frame, 16" o.c.	1812	13.0	0.0		122
Window 1: Vinyl Frame, Double Pane with Low-E	170			0.350	59
Door 1: Solid	59			0.250	15
Door 2: Glass	100			0.330	33
Floor 1: All-Wood Joist/Truss, Over Unconditioned Space	1097	19.0	0.0		80

Furnace 1: Forced Hot Air, 85 AFUE

COMPLIANCE STATEMENT: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the Massachusetts Energy Code requirements in MEC*check* Version 3.3 Release 1c and to comply with the mandatory requirements listed in the MEC*check* Inspection Checklist.

The heating load for this building, and the cooling load if appropriate, has been determined using the applicable Standard Design Conditions found in the Code. The HVAC equipment selected to heat or cool the building shall be no greater than 125% of the design load as specified in Sections 780CMR 1310 and J4.4.

Builder/Designer_____ Date_____

MEC*heck* Inspection Checklist
Massachusetts Energy Code

MEC*heck* Software Version 3.3 Release 1c

DATE: 10/18/04

Bldg. Dept. Use

Ceilings:

[ ] 1. Ceiling 1: Flat Ceiling or Scissor Truss, R-30.0 cavity insulation
Comments: _____

Above-Grade Walls:

[ ] 1. Wall 1: Wood Frame, 16" o.c., R-13.0 cavity insulation
Comments: _____

Windows:

[ ] 1. Window 1: Vinyl Frame, Double Pane with Low-E, U-factor: 0.350
For windows without labeled U-factors, describe features:
Panes____ Frame Type_____ Thermal Break? [ ] Yes [ ] No
Comments: _____

Doors:

[ ] 1 Door 1: Solid, U-factor: 0.250
Comments: _____

[ ] 2 Door 2: Glass, U-factor: 0.330
Panes____ Frame Type_____ Thermal Break? [ ] Yes [ ] No
Comments: _____

Floors:

[ ] 1. Floor 1: All-Wood Joist/Truss, Over Unconditioned Space, R-19.0 cavity insulation
Comments: _____

Heating and Cooling Equipment:

[ ] 1. Furnace 1: Forced Hot Air, 85 AFUE or higher
Make and Model Number _____

Air Leakage:

[ ] Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage must be sealed.

[ ] When installed in the building envelope, recessed lighting fixtures shall meet one of the following requirements:

1. Type IC rated, manufactured with no penetrations between the inside of the recessed fixture and ceiling cavity and sealed or gasketed to prevent air leakage into the unconditioned space.
2. Type IC rated, in accordance with Standard ASTM E 283, with no more than 2.0 cfm (0.944 L/s) air movement from the the conditioned space to the ceiling cavity. The lighting fixture shall have been tested at 75 PA or 1.57 lbs/ft2 pressure difference and shall be labeled.

Vapor Retarder:

[ ] Required on the warm-in-winter side of all non-vented framed ceilings, walls, and floors

Materials Identification:

[ ] Materials and equipment must be identified so that compliance can be determined.

[ ] Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment must be provided.

[ ] Insulation R-values, glazing U-factors, and heating equipment efficiency must be clearly marked on the building plans or specifications.

Duct Insulation:

[ ] Ducts shall be insulated per Table 14.4.7.1.

Duct Construction:

[ ] All accessible joints, seams, and connections of supply and return ductwork located outside conditioned space, including stud bays or joist cavities/spaces used to transport air, shall be sealed using mastic and fibrous backing tape installed according to the manufacturer's installation instructions. Mesh tape may be omitted where gaps are less than 1/8 inch. Duct tape is not permitted.

[ ] The HVAC system must provide a means for balancing air and water systems.

Temperature Controls:

[ ] Thermostats are required for each separate HVAC system. A manual or automatic means to partially restrict or shut off the heating and/or cooling input to each zone or floor shall be provided.

Heating and Cooling Equipment Sizing:

[ ] Rated output capacity of the heating/cooling system is not greater than 125% of the design load as specified in Sections 780CMR 1310 and 14.4.

Circulating Hot Water Systems:

[ ] Insulate circulating hot water pipes to the levels in Table 1.

Swimming Pools:

[ ] All heated swimming pools must have an on/off heater switch and require a cover unless over 20% of the heating energy is from non-depletable sources. Pool pumps require a time clock.

Heating and Cooling Piping Insulation:

[ ] HVAC piping conveying fluids above 120 °F or chilled fluids below 55 °F must be insulated to the levels in Table 2.

Table 1: ***Minimum Insulation Thickness for Circulating Hot Water Pipes.***

	Insulation Thickness in Inches by Pipe Sizes			
Heated Water	Non-Circulating Runouts		Circulating Mains and Runouts	
Temperature (F)	Up to 1"	Up to 1.25"	1.5" to 2.0"	Over 2"
170-180	0.5	1.0	1.5	2.0
140-160	0.5	0.5	1.0	1.5
100-130	0.5	0.5	0.5	1.0

Table 2: ***Minimum Insulation Thickness for HVAC Pipes***

	Fluid Temp.	Insulation Thickness in Inches by Pipe Sizes			
Piping System Types	Range (F)	2" Runouts	1" and Less	1.25" to 2"	2.5" to 4"
Heating Systems					
Low Pressure/Temperature	201-250	1.0	1.5	1.5	2.0
Low Temperature	120-200	0.5	1.0	1.0	1.5
Steam Condensate (for feed water)	Any	1.0	1.0	1.5	2.0
Cooling Systems					
Chilled Water, Refrigerant,	40-55	0.5	0.5	0.75	1.0
and Brine	Below 40	1.0	1.0	1.5	1.5

NOTES TO FIELD (Building Department Use Only)

BUILDING PERMIT

JOB WEATHER CARD

February 9, 2005 PERMIT NO. 05056

APPLICANT Alexander Partridge (USE) ADDRESS (NO.) (STREET) (CENTRAL CLERK)

PERMIT TO Addition/Alteration (TYPE OF IMPROVEMENT) (NO.) STORY (PRESENT USE) NUMBER OF DWELL. NO. UNITS

LOCATION 59 Depot Road (NO.) (STREET) ZONING DISTRICT R60

BETWEEN (CROSS STREET) AND (CROSS STREET)

SUBDIVISION Dep. Sk.3 Parcel 44.1 Zone 2 LOT BLOCK LOT SIZE 43,320 sqft.

BUILDING IS TO BE FT WIDE BY FT LONG BY FT IN HEIGHT AND SHALL CONSIST IN CONSTRUCTION

TO TYPE (USE ABOVE) BASEMENT WALLS OF CONCRETE OR

REMARKS: Bath addition to existing building, septic approved

AREA OR VOLUME (DIMENSIONS FEET) ESTIMATED COST $ 25000 PERMIT FEE $ 212.50

OWNER Alexander Partridge

ADDRESS BUILDING OFFICIAL BY

THIS PERMIT CONVEYS NO RIGHT TO OCCUPY ANY STREET, ALLEY OR SIDEWALK OR ANY PART THEREOF EITHER TEMPORARILY OR PERMANENTLY, NOR TO PLACE ANY OBSTRUCTIONS ON PUBLIC PROPERTY. NO BUILDING PERMITTED UNDER THE BUILDING CODE SHALL BE OCCUPIED IN WHOLE OR IN PART UNTIL A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED BY THE INSPECTION, STREET OR ALLEY GRADES AS WELL AS SIZE AND LOCATION OF PUBLIC SEWERS MAY BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS. THE ISSUANCE OF THIS PERMIT DOES NOT RELEASE THE APPLICANT FROM THE CONDITIONS OF ANY APPLICABLE SUBDIVISION RESTRICTIONS.

WRITTEN NOTICE CALLED FOR INSPECTIONS REQUIRED FOR ALL CONSTRUCTION WORK

1. FOUNDATIONS OR FOOTINGS
2. PRIOR TO COVERING STRUCTURAL MEMBERS (READY FOR LATH OR FINISH COVERING)
4. FINAL INSPECTION BEFORE OCCUPANCY

APPROVED PLANS MUST BE RETAINED ON JOB AND THIS CARD MUST BE POSTED UNTIL FINAL INSPECTION HAS BEEN MADE. WHERE A CERTIFICATE OF OCCUPANCY IS REQUIRED, SUCH BUILDING SHALL NOT BE OCCUPIED UNTIL FINAL INSPECTION HAS BEEN MADE

WHERE APPLICABLE SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL WIRING AND MECHANICAL INSTALLATIONS

POST THIS CARD SO IT IS VISIBLE FROM STREET

FOUNDATION INSPECTION APPROVALS	PLUMBING INSPECTION APPROVALS	ELECTRICAL INSPECTION APPROVALS
1	1	1 Rough 4/4/05
2	2 Final OK 7/4/05	Power 3-30-05
3	HEATING DUCTS INSPECTION APPROVALS	REFRIGERATION INSPECTION APPROVALS
	1	1
Final OK 11-4-05	2	2
OTHER		

WORK SHALL NOT BE COVERED UNTIL THE INSPECTOR HAS APPROVED THE VARIOUS STAGES OF CONSTRUCTION

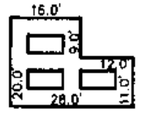
PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN SIX MONTHS OF DATE THE PERMIT IS ISSUED AS NOTED ABOVE.

VIOLATIONS INDICATED ON THIS CARD WILL BE SUBJECT TO PENALTIES AS PRESCRIBED IN THE BUILDING CODE

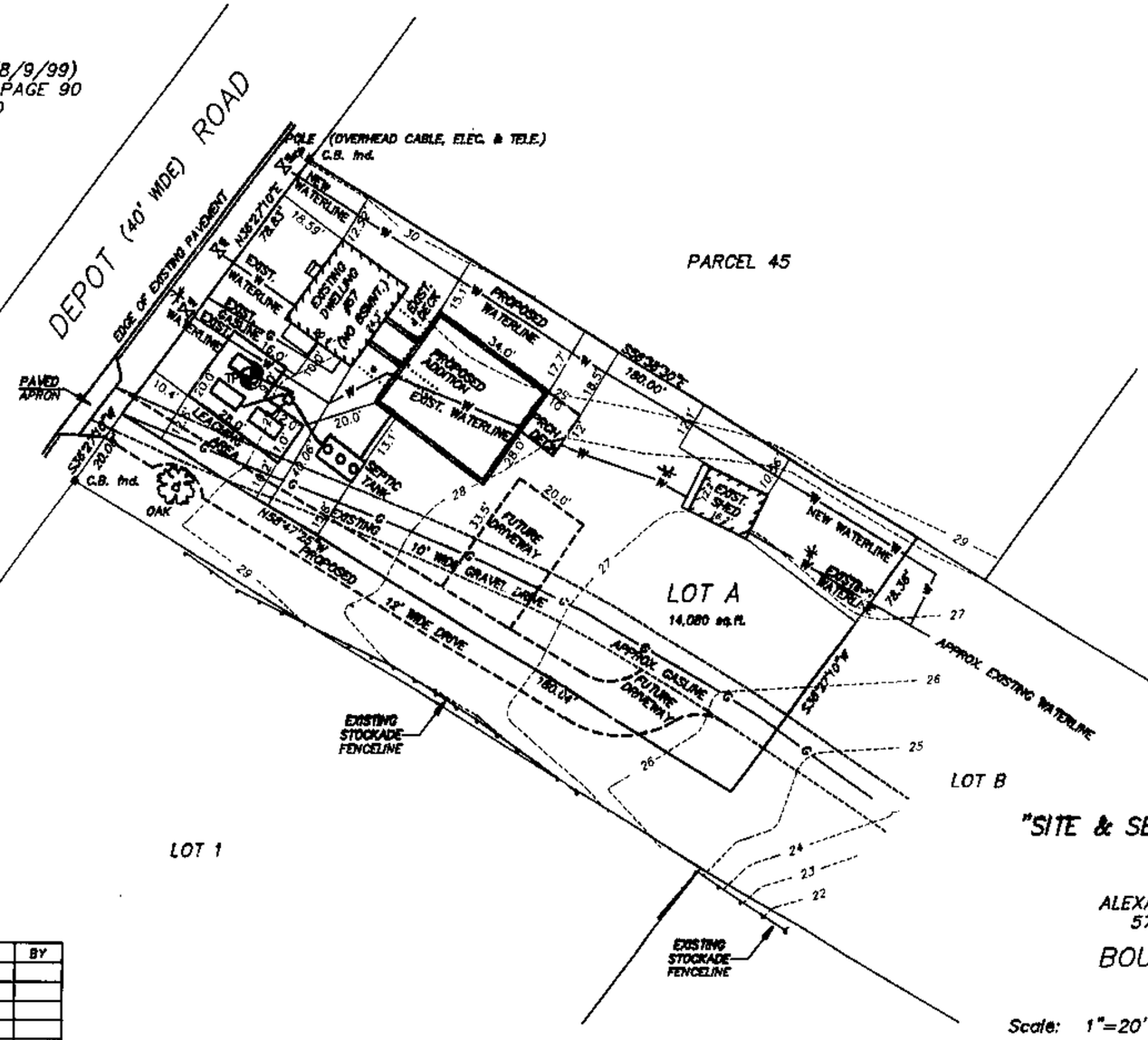
FORM NO. 1 C.C. - RP 8/00

ZONE: R-40
MAP: 51.2 PARCEL: 44.1
FLOOD ZONE: X
Panel No. 255210 0011 E (8/9/99)
PLAN REFERENCE: BOOK 310 PAGE 90
BENCHMARK DATUM: ASSUMED

LEACHING AREA



BOTTOM AREA: 452 SF
PERIMETER: 96'
DESIGN AREA: 844 SF
CAPACITY: 478.5 GAL/DAY



"PLAN REVISIONS"

NO.	DATE	DESCRIPTION	BY

DRAWN BY: GSL	DATE: 9/08/04
CHECKED BY:	DRW. NAME: PARTZSEP PROJ. NAME: PARTRI
DISC: PARTRIDGE	SHEET 1 OF 3

COMMONWEALTH OF MASSACHUSETTS GARY B. LABRIE No. 40039 REGISTERED PROFESSIONAL LAND SURVEYOR

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

* Water service to be abandoned.

COMMONWEALTH OF MASSACHUSETTS JOHN [illegible] No. 35101 REGISTERED

"SITE & SEPTIC DESIGN PLAN"
FOR
ALEXANDER PARTRIDGE
57 DEPOT ROAD
BOURNE, MASS.

Scale: 1"=20' Date: 9/08/04

Warwick & Associates Inc.
63 County Road Box 801
North Falmouth, Mass 02556
(508) 563 - 7777

DWG: PARTZSEP REV:

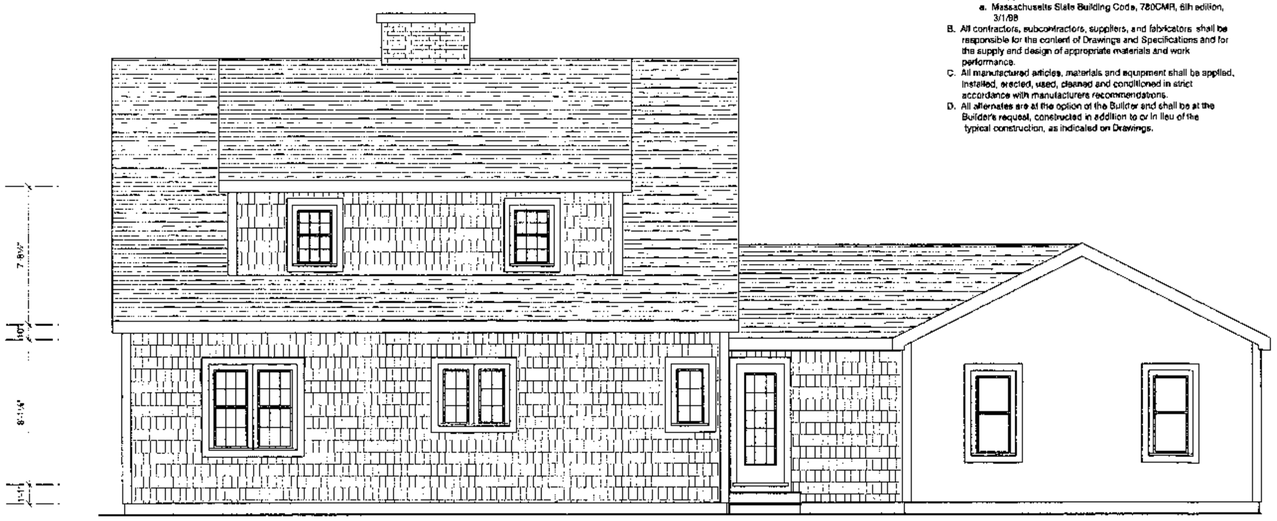
GENERAL NOTES:

A. 1. Before final Drawings and Specifications are issued for construction, they shall be submitted to all governing building agencies to insure their compliance with all applicable local and national codes. If code discrepancies in Drawings and/or Specifications appear, the Designer shall be notified of such discrepancies in writing by Builder or building official, and allowed to alter Drawings and Specifications so as to comply with governing codes before construction begins.
2. Upon written receipt of approval from the governing official, approved final Drawings and Specifications shall be submitted to the Builder by the Designer.
3. If code discrepancies are discovered during the construction process, Designer shall be notified and allowed ample time to remedy said discrepancies.
4. All work performed shall comply with all applicable local, state and national building codes, ordinances and regulations, and all other authorities having jurisdiction. Following is a partial list of applicable codes in force:
   a. Massachusetts State Building Code, 780CMR, 6th edition, 3/1/98

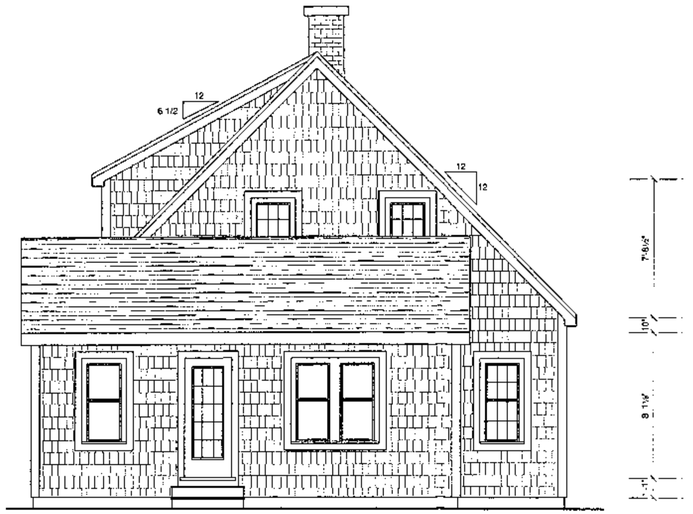
B. All contractors, subcontractors, suppliers, and fabricators shall be responsible for the content of Drawings and Specifications and for the supply and design of appropriate materials and work performance.

C. All manufactured articles, materials and equipment shall be applied, installed, erected, used, cleaned and conditioned in strict accordance with manufacturers recommendations.

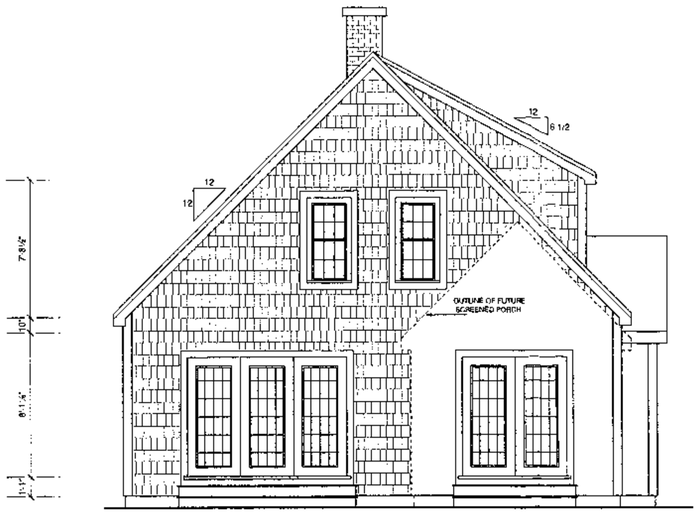
D. All alternates are at the option of the Builder and shall be at the Builder's request, constructed in addition to or in lieu of the typical construction, as indicated on Drawings.



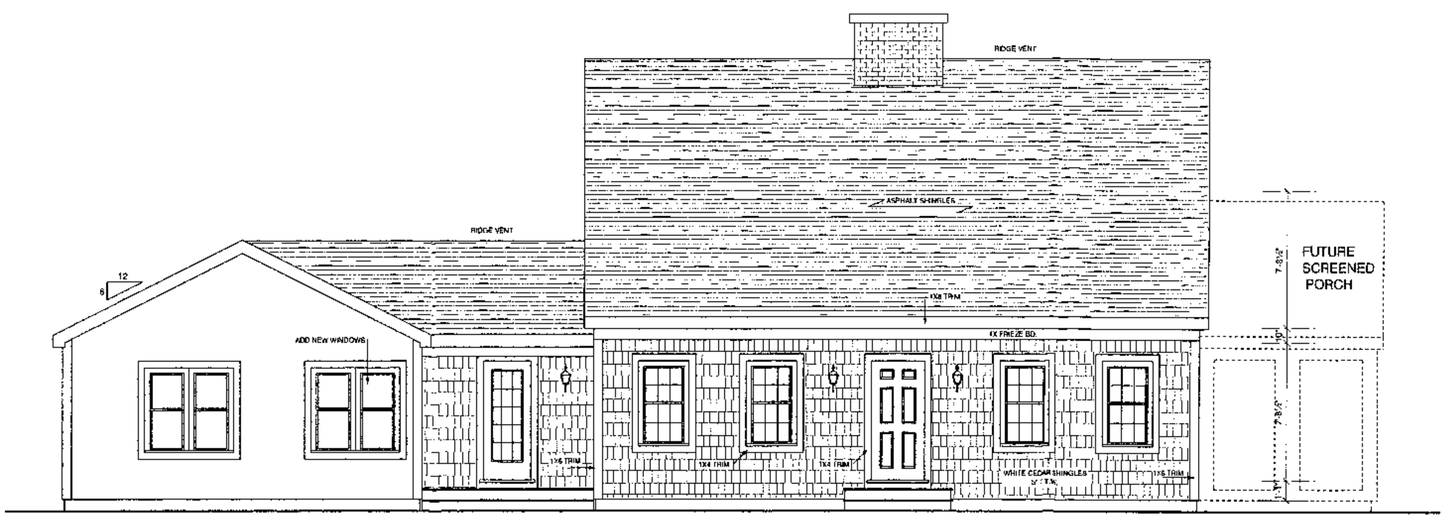
PROPOSED LEFT ELEVATION



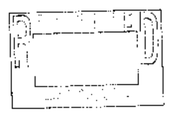
PROPOSED FRONT ELEVATION



PROPOSED REAR ELEVATION



PROPOSED RIGHT ELEVATION



SBP

SPB DESIGN
RESIDENTIAL DESIGN, CONSULTING & DRAFTING
P.O. BOX 981
POCASSET,MA.
(508)564-4448

PROPOSED ADDITION/RENOVATIONS
PARTRIDGE RESIDENCE
57 DEPOT RD.
CATAUMET,MA.

PLAN DATE: 10/15/04

DRAWN BY: SPB/JMB

REVISIONS:

SCALE: 1/4"=1'-0"
UNLESS NOTED

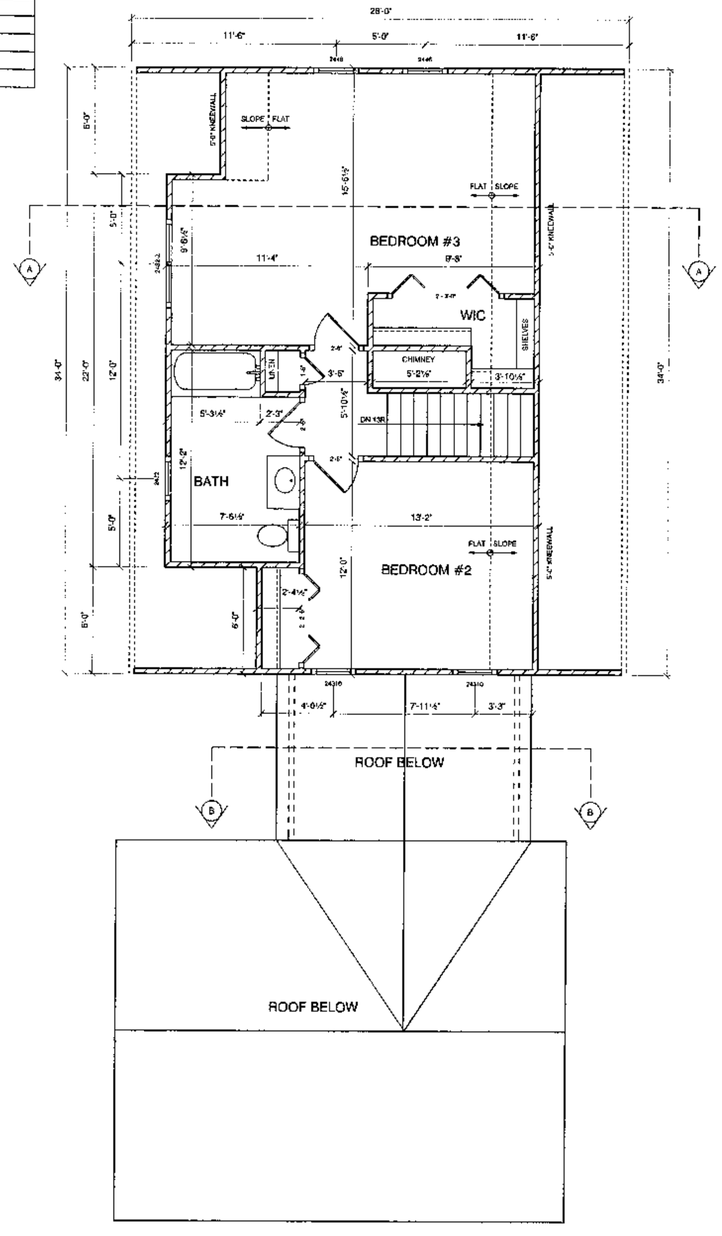
A1

ANDERSEN WINDOWS

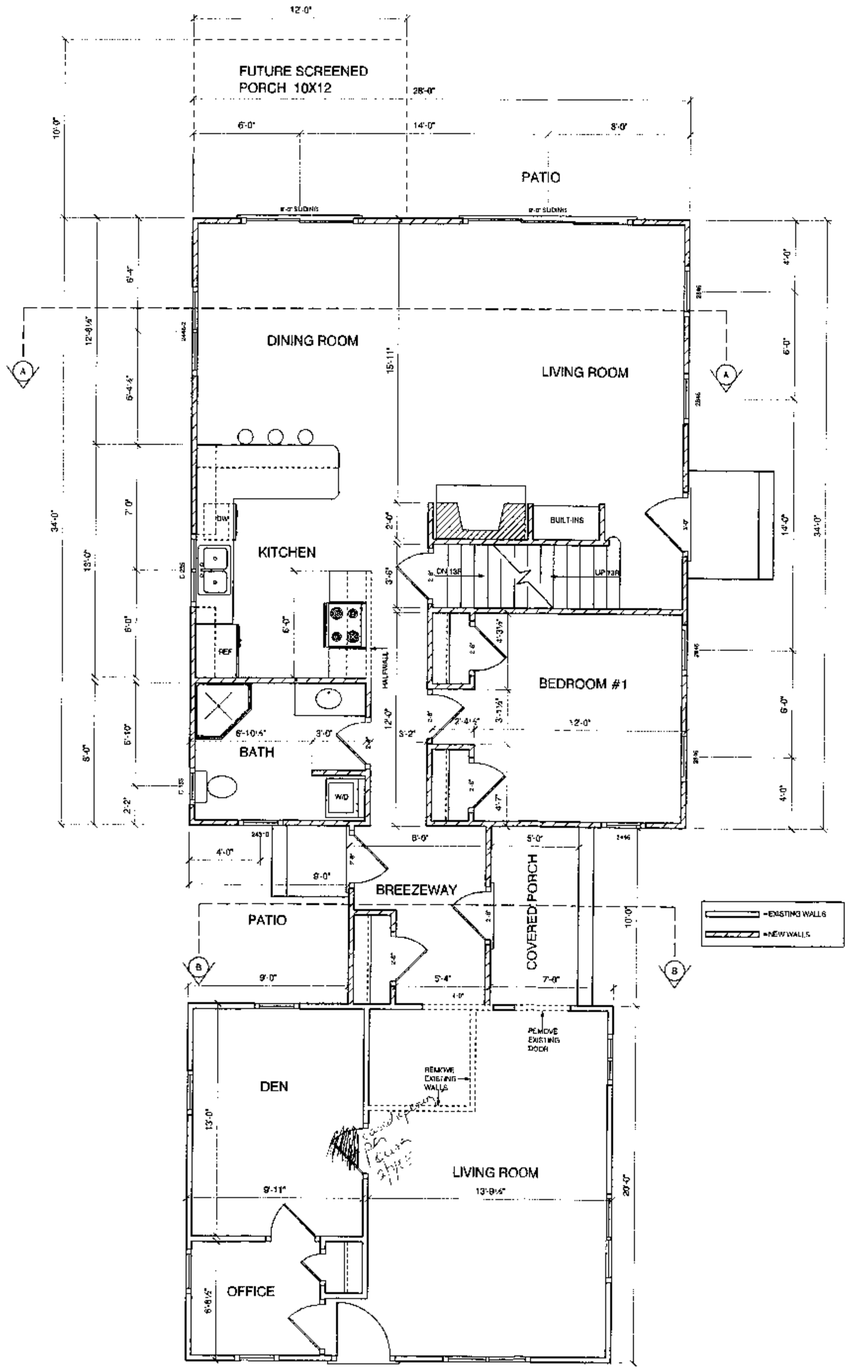
DOOR & WINDOW SCHEDULE

QUANTITY	MARK	OPENING (ROUGH)	MANF. NO.	COMMENTS
7	A	2'-6 1/8" X 4'-9 1/4"	~~4448~~ 2546	DH W/GRILLES
1	B	4'-11 13/16" X 4'-9 1/4"	2446-2	MULLED W/GRILLES
1	C	4'-0 1/2" X 3'-5 3/8"	C236	CASEMENT W/GRILLES
1	D	2'-0 5/8" X 3'-5 3/8"	C135	CASEMENT W/GRILLES
1	E	4'-11 13/16" X 3'-5 1/4"	2432-2	MULLED W/GRILLES
1	F	2'-6 1/8" X 3'-5 1/4"	2432	DH W/GRILLES
2	G	2'-6 1/8" X 4'-1 1/4"	2436	DH W/GRILLES
1	1	3'-2 1/2" X 6'-10 1/2"	3068	STEEL ENTRY
1	2	6'-0" X 6'-10 1/2" - 3'-0" X 6'-10 1/2"	FWD6068-FWD 33683	SLIDER
1	3	6'-0" X 6'-10 1/2"	FWD6068	SLIDER
2	4	2'-10 1/2" X 6'-10 1/2"	2868	E-LITE

3 2813 BASEMENT



PROPOSED SECOND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN

SPB DESIGN
RESIDENTIAL DESIGN, CONSULTING & DRAFTING
P.O. BOX 981
POCASSET,MA.
(508)564-4448

PROPOSED ADDITION/RENOVATIONS
PARTRIDGE RESIDENCE
57 DEPOT RD.
CATAUMET,MA.

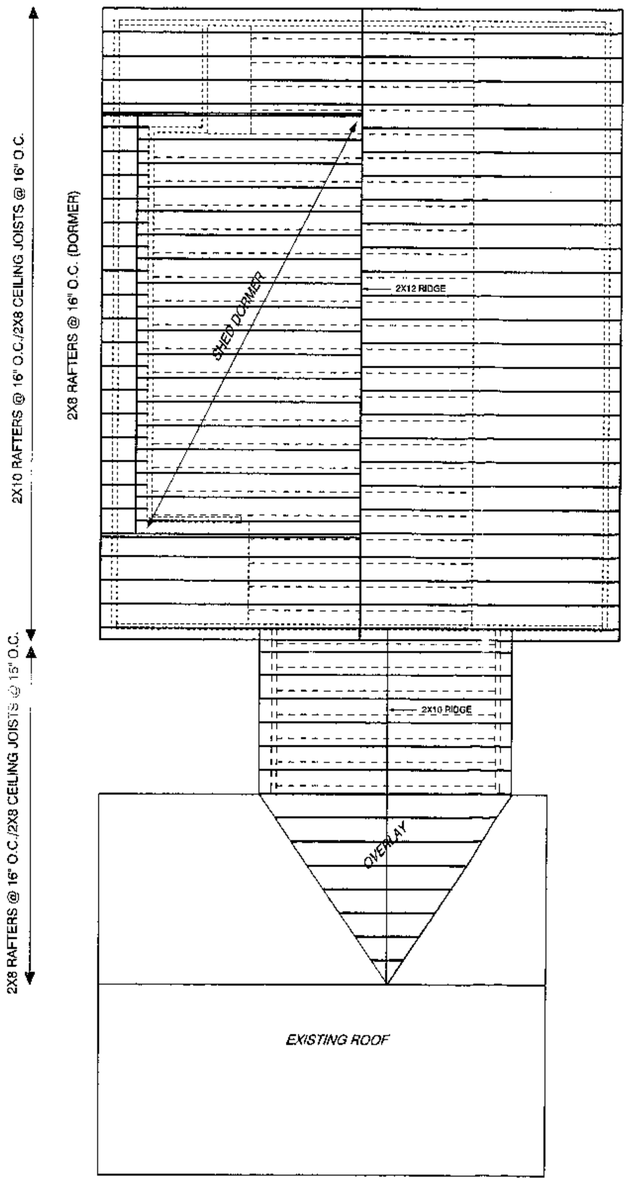
PLAN DATE: 10/15/04

DRAWN BY: SPB/JMB

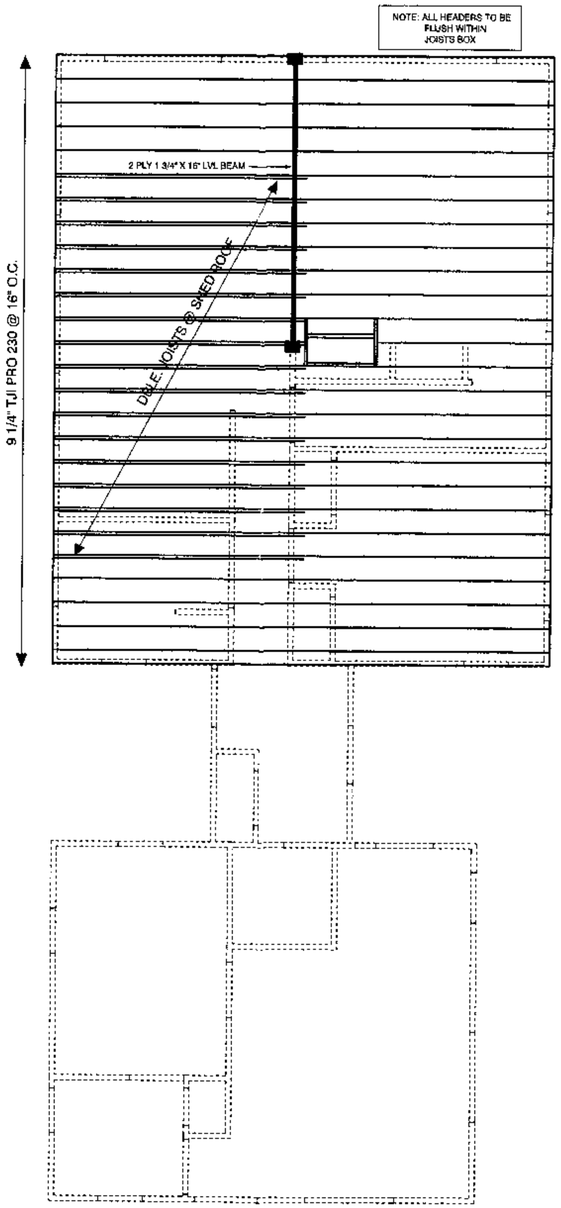
REVISIONS:

SCALE: 1/4"=1'-0" UNLESS NOTED

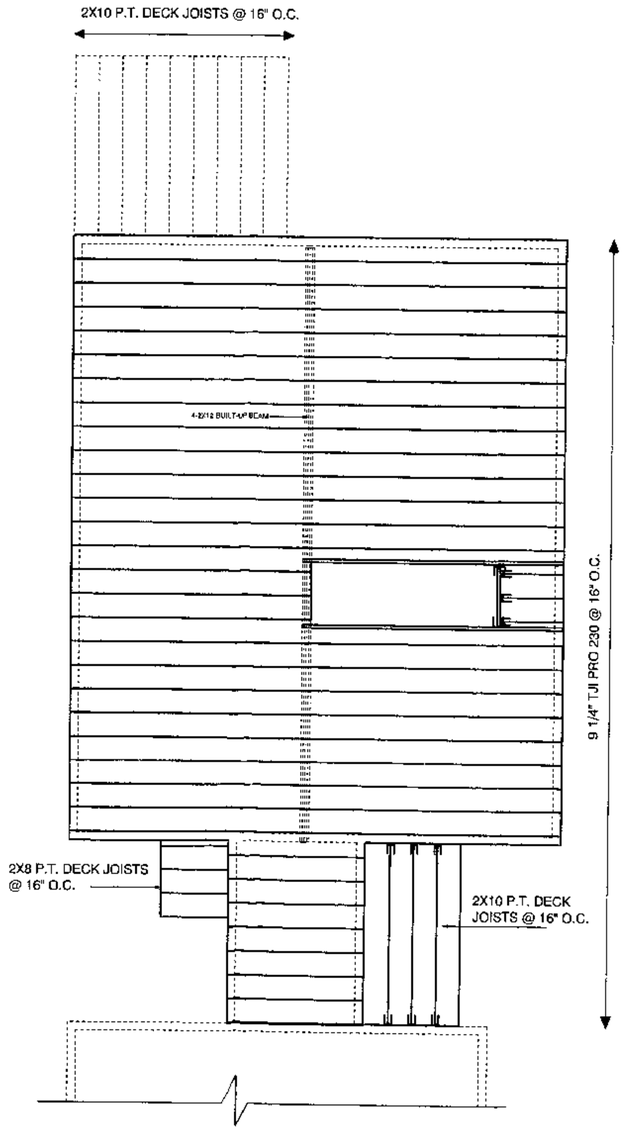
A2



ROOF FRAMING PLAN



SECOND FLOOR FRAMING PLAN



FIRST FLOOR FRAMING PLAN

SPB DESIGN
RESIDENTIAL DESIGN, CONSULTING & DRAFTING
P.O. BOX 981
POCASSET, MA.
(508)564-4448

PROPOSED ADDITION/RENOVATIONS
PARTRIDGE RESIDENCE
57 DEPOT RD.
CATAUMET, MA.

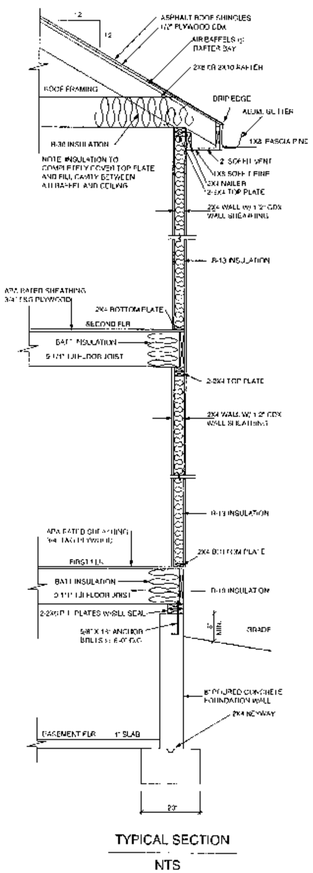
PLAN DATE: 10/15/04

DRAWN BY: SPB/JMB

REVISIONS:

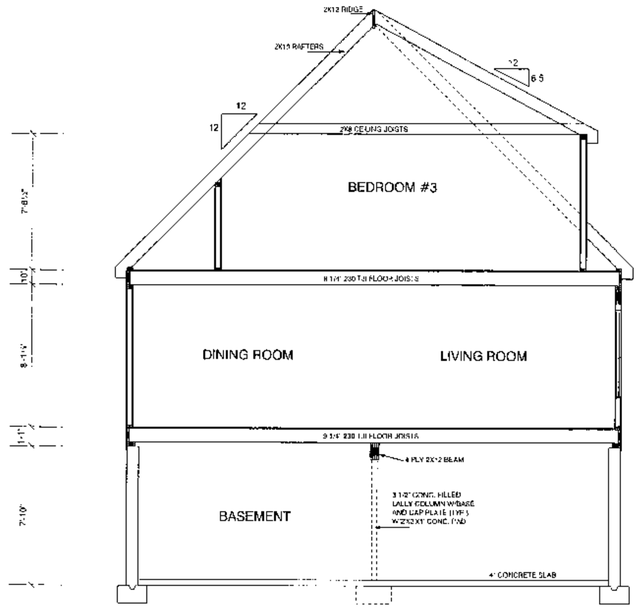
SCALE: 1/4"=1'-0" UNLESS NOTED

A4

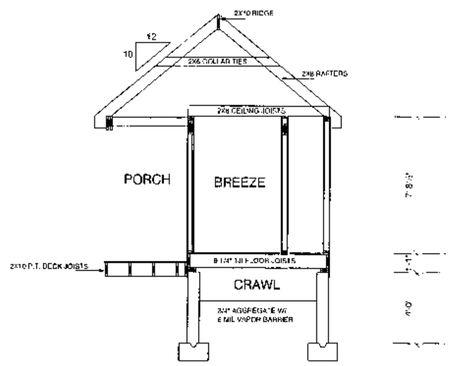


TYPICAL SECTION

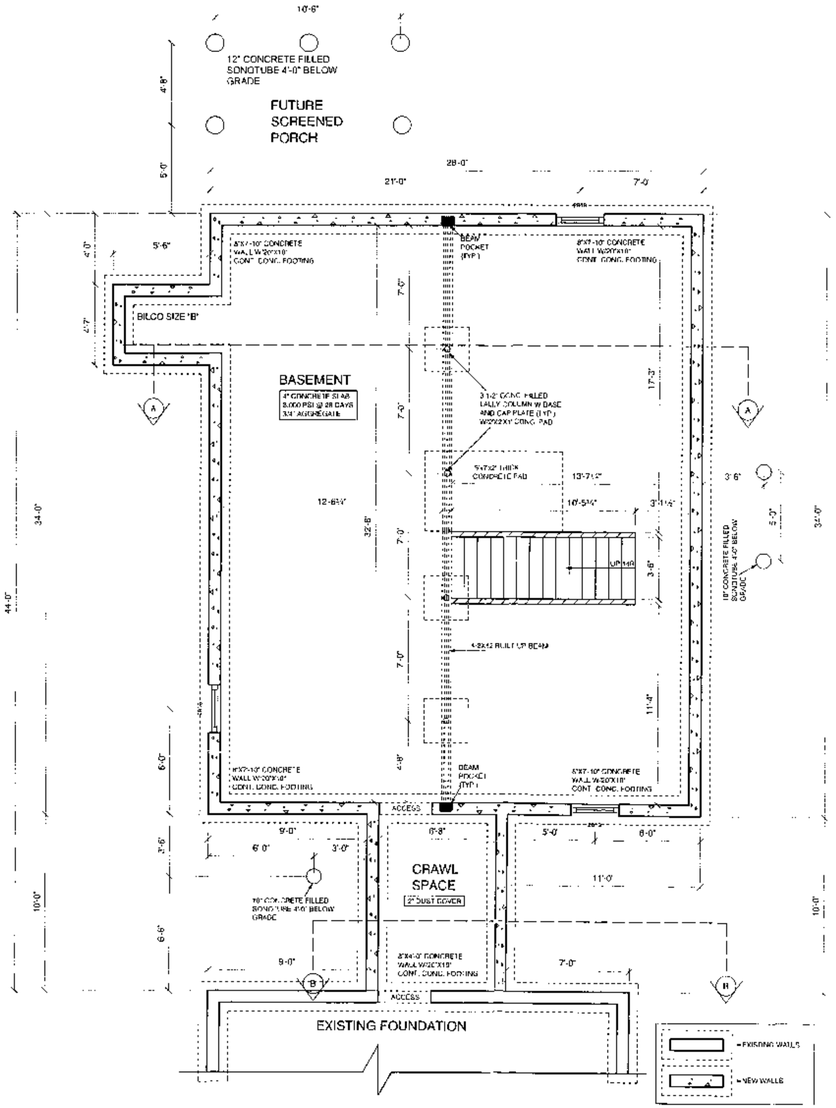
NTS



SECTION A



SECTION B



FOUNDATION PLAN

SPB DESIGN
RESIDENTIAL DESIGN, CONSULTING & DRAFTING
P.O. BOX 981
POCASSET,MA.
(508)564-4448

PROPOSED ADDITION/RENOVATIONS
PARTRIDGE RESIDENCE
57 DEPOT RD.
CATAUMET,MA.

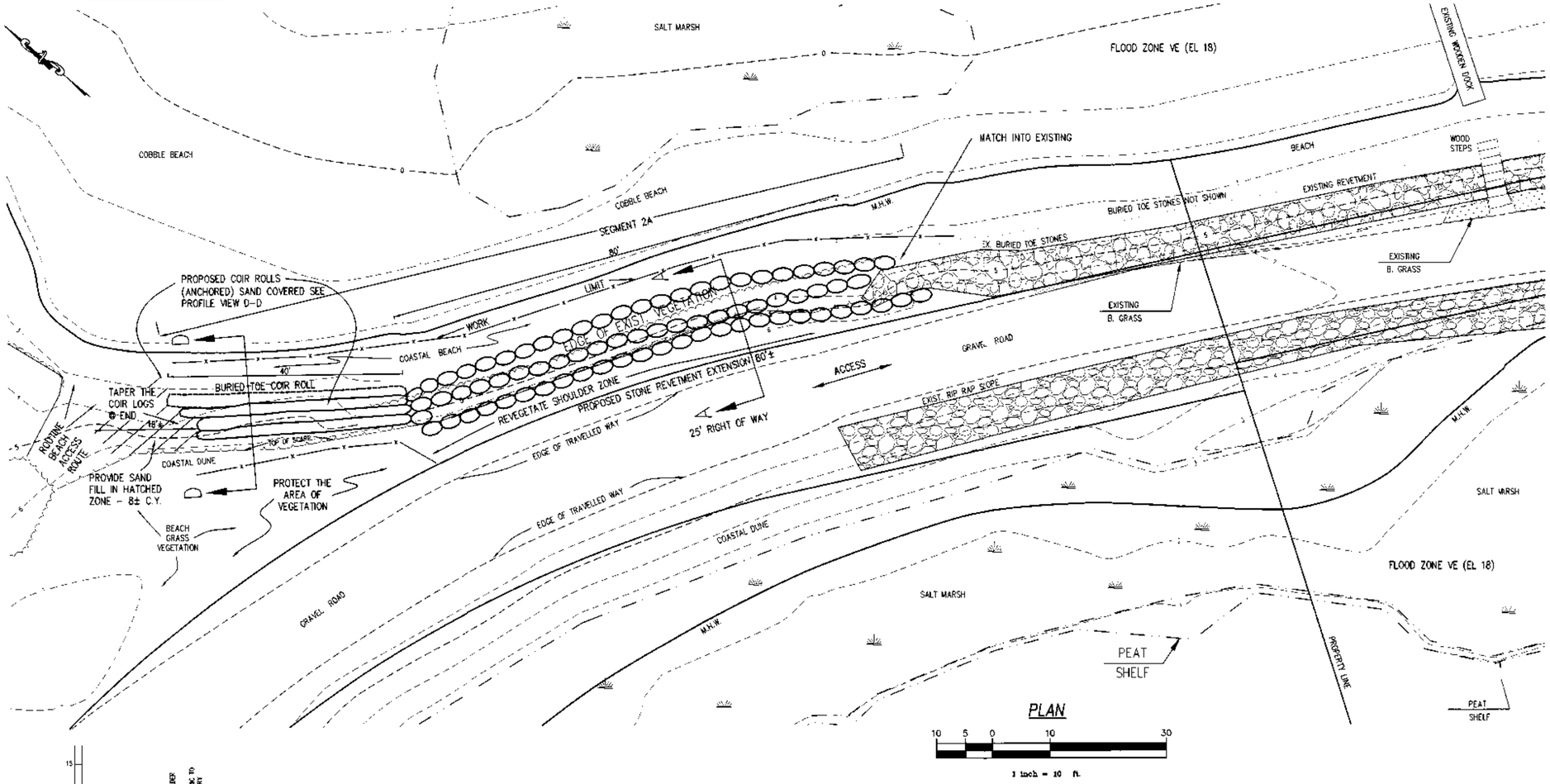
PLAN DATE: 10/15/04

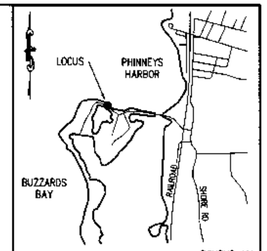
DRAWN BY: SPB/JMB

REVISIONS:

SCALE: 1/4"=1'-0" UNLESS NOTED

A3

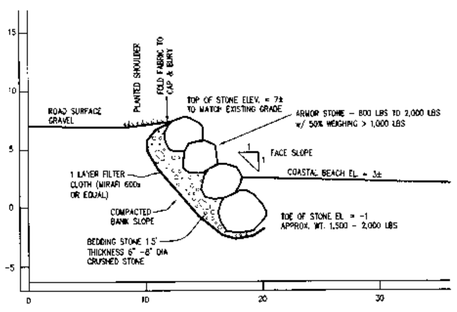




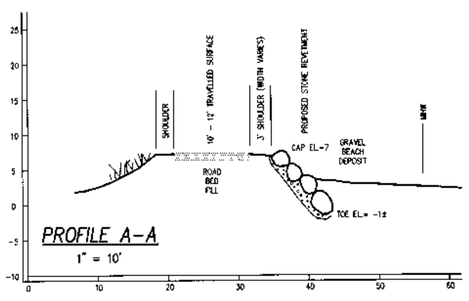
KEY MAP
NO SCALE

REVETMENT CONSTRUCTION NOTES

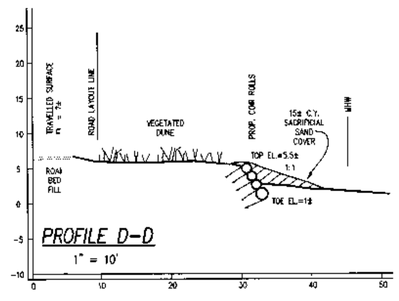
1. ELEVATIONS REFER TO NAVD88. CONTACT *CAPE COD ENGINEERING, INC.* PRIOR TO JOB START UP TO TRANSFER THE ELEVATION BENCH MARK TO THE IMMEDIATE WORK AREA IF NEEDED.
2. CONSTRUCTION ACCESS SHALL BE VIA THE ACCESS ROUTE SHOWN ON THE PLAN.
3. THE WORK ACTIVITY SHALL OCCUPY A MINIMUM AREA TO ACCOMPLISH THE INSTALLATION OF THE STONE REVETMENT BUTTRESS. MINIMAL SIZED EQUIPMENT SHALL BE USED TO ACCOMPLISH THE PROPOSED WORK WITH CONSIDERATION GIVEN TO THE RESPECTIVE STONE SIZES.
4. ONLY THE AREA FOR EQUIPMENT ACCESS AND THE MINIMAL AREA NECESSARY AT THE TOE OF THE SLOPE MAY BE ALTERED. THIS AREA SHALL BE DIRECTLY ALONG THE TOE OF THE SLOPE.
5. A WORK LIMIT, AS SHOWN ON THE PLAN, SHALL BE STAKED, AT 20 FT. INTERVALS, FLAGGED . WORK LIMIT SHALL BE MAINTAINED AS A VISUAL CONTROL DURING THE COURSE OF THE WORK EFFORT.
6. ALL ARMOR STONE AND BEDDING STONE SHALL BE OF CLEAN COMPOSITION, FREE OF ANY DEBRIS, ORGANICS OR FINES SUCH AS SILT OR CLAY.
7. USE EXCESS EXCAVATED SAND FOR BANK CONTOUR. RETAIN ALL BANK EARTH WITHIN THE NEW SLOPE.
8. THE LOOSE STONE RIP RAP SHALL BE SET ASIDE AND THE UNDERLYING EARTH SHAPED TO ACCOMODATE THE NEW FILTER CLOTH
9. FILTER FABRIC SHALL BE MIRAFI 600X, SINGLE LAYER OR APPROVED EQUAL. THE FABRIC SHALL BE PLACED WITH SEAMS VERTICALLY ALIGNED, WITH A MINIMUM OF 3 FT. OVERLAP. EACH RUN OF FABRIC SHALL BE FIRMLY PINNED TO THE SLOPE TO WITHSTAND MOVEMENT DURING THE STONE SETTING.
10. BEDDING STONE SHALL BE OF CRUSHED NATIVE, 6 TO 8 IN. DIAMETER
11. ARMOR STONES SHALL BE OF NATIVE GRANITE, SMALL BOULDERS AS SPECIFIED FOR WEIGHT ON THE TYPICAL PROFILE DETAIL. SELECT PRIMARILY UNIFORM, ANGULAR STONE SHAPES OF LOCAL (GLACIAL) ORIGIN AND FIT INTO PLACE FOR MAXIMUM STABILITY. ALL ARMOR STONES SHALL FIRMLY CONTACT THE BED STONES AND ARMOR STONES DIRECTLY ADJACENT TO MINIMIZE POROSITY. THE STONE BELOW EACH ARMOR STONE SHALL HAVE A CONFINING EDGE ORIENTEDAPPROXIMATELY PERPENDICULAR TO THE REVETMENT FACE SLOPE. FACE ROUGHNESS SHALL BE ON A SCALE OF 0.5 TO 1.0 FT.
12. DISTURBED EARTH AREAS ABOVE THE COMPLETED STONE ARRAY ON THE BANK ACCESS ROUTE AND ROAD SHOULDER SHALL BE INTENSIVELY (12 " O.C.) PLANTED WITH AMERICAN BEACH GRASS. OTHER SALT HARDY COASTAL VARIETIES ARE ENCOURAGED.
13. REMAINING EXCESS FIELD STONES- AND BEDDING STONE SHALL BE REMOVED FROM THE WORK SITE UPON COMPLETION.
14. THE UPLAND ACCESS ROUTE, ROADWAY AND WORK SITE SHALL BE GRADED AND RESTORED TO THE PRE-CONSTRUCTION CONTOUR. ROAD SURFACE SHALL BE RESTORED WITH APPROPRIATE ROADWAY GRAVEL OR OTHER COMPACTIBLE MATERIALS ACCEPTABLE TO THE CONSERVATION COMMISSION.



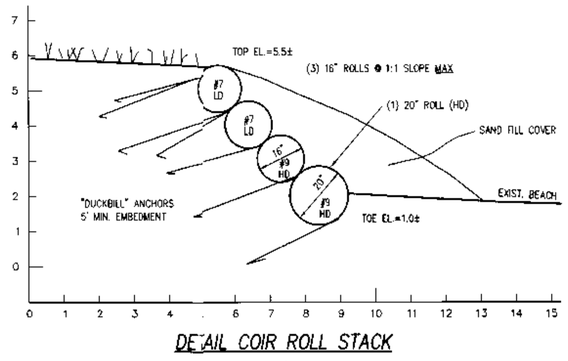
TYPICAL REVETMENT CROSS-SECTION
1" = 6'



PROFILE A-A
1" = 10'



PROFILE D-D
1" = 10'



DETAIL COIR ROLL STACK
1" = 2'

COIR ROLL INSTALLATION GUIDELINES

1. COCONUT FIBER COIR LOGS SHALL BE OF THE SPECIFIED SIZE AND DENSITY. PREMIUM GRADE COIR FIBER ENCASED IN TWINE MESH OR NET FACED AS SHOWN ON THE TYPICAL PROFILE. A 'RUNNING BOND' TIER ARRAY SHALL BE ESTABLISHED.
2. ANCHOR THE COIR LOGS USING CORROSION - RESISTAT 'DUCK-BILL' ANCHORS AND TETHERS (68 DBI OR EQUAL) THE ANCHORS SHALL BE DRIVEN AND SECURED INTO NATURALLY CONSOLIDATED SOIL AT A MINIMUM DEPTH OF 5 FT. MINIMUM ANCHOR SPACING SHALL BE 4 FT. REFER TO MANUFACTURERS' RECOMMENDATIONS AND OR SPECIFICATIONS AS NEEDED FOR PROPER ANCHOR LAYARRAY TO INTEGRATE LOGS AND ATTACH ANCHORS. INSTALLATION CONTRACTORTECHNIQUES SHALL BE REVIEWED PRIOR TO THE JOB.
3. PROVIDE A TIE OFF TECHNIQUE FOR ANCHOR TETHERS TO ALLOW FOLLOWUP TENSIONING OF ANCHORS AFTER SETTLEMENT FOLLOWING INITIAL INUNDATION.
4. SOIL COVER FOR FIBER LOGS SHALL BE A MINIMUM OF 6 INCHES OF CLEAN SAND, CLEAN COMPATIBLE UPLAND SOURCED. SAND COVERSHALL BE APPLIED PERIODICALLY AS PER THE ORDER OF CONDITIONS
5. FOR THE VEGETATED AREA BETWEEN THE TRAVELLED WY AND THE COIR INSTALLATION THE GROUND SHALL BE SAND COVERED AD LIGHT WEIGHT FIBERGLASS MATS DEPLOYED TEMPORARILY SHOULD A SMALL RUBER TIRED MINI BE NEEDED TO REACH THE ZONE.
6. ANY DEVIATIONS FROM THE SCOPE OF WORK OUTLINEDIN THE PLAN MUST BE APPROVED THROUGH *CAPE COD ENGINEERING, INC.* AN TOWN OF BOURNE CONSERVATION COMMISSION

TOBEY_ISLAND.DWG

REVISED JUNE 3, 2021 - ADD SAND FILL AT COIR ROLL END; ADD WETLAND LABEL

REVISED APRIL 2, 2021 - EXTEND COIR ROLLS IN SEGMENT 2A

SUPPLEMENTAL PLAN

ROAD SEGMENT 2A

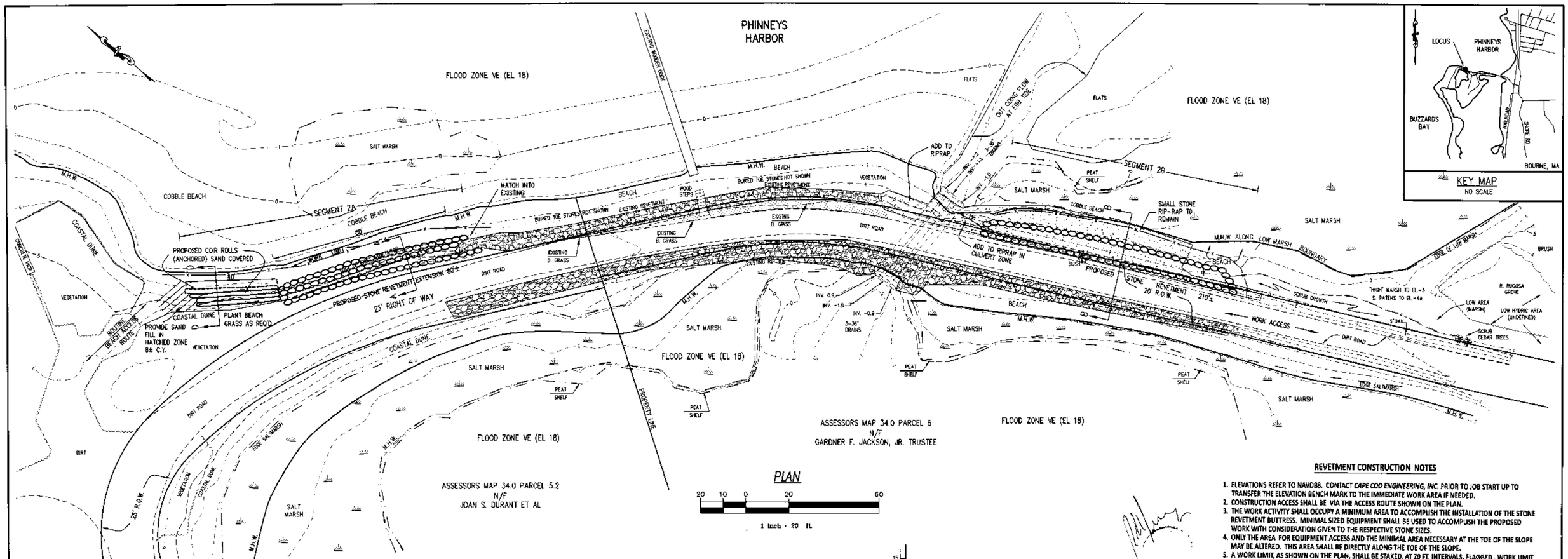
LOW CRESTED STONE REVETMENT EXTENSION FOR ROADWAY EMBANKMENT STABILIZING

AT

EMMONS ROAD, TOBY ISLAND, BOURNE

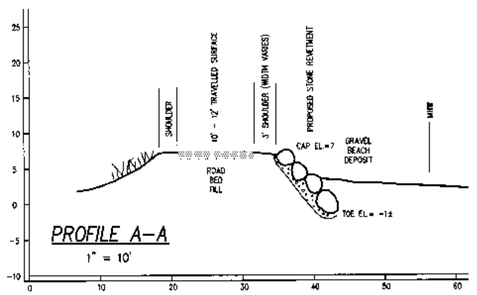
FEBRUARY 10, 2021 SCALE - AS NOTED

PREPARED BY
CAPE COD ENGINEERING, INC.
ROBERT M. PERRY, P.E.
P.O. BOX 1517
EAST DENNIS MA 02641
TEL 508-385 1445



PLAN

1 inch = 20 ft.



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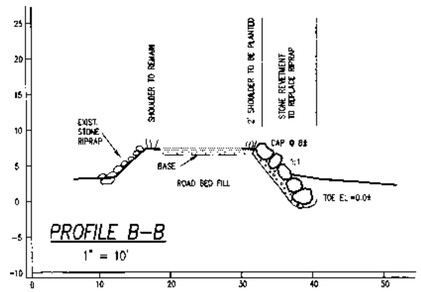
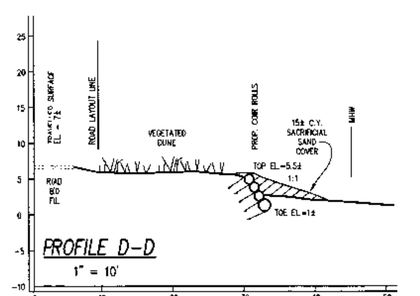


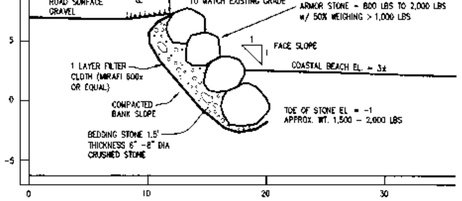
PROFILE B–B

1" = 10'



PROFILE D–D

1" = 10'



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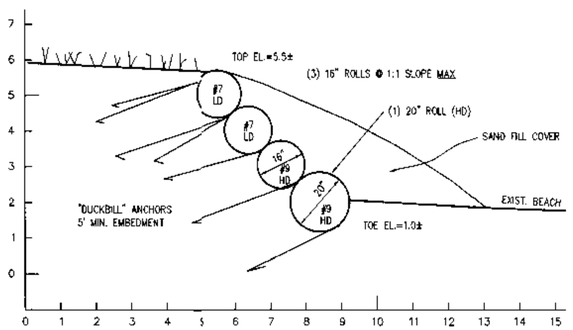

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TOBEY_ISLAND.DWG

REVISED JUNE 3, 2021 – ADD SAND FILL AT COIR ROLL END; ADD WETLAND LABEL
REVISED APRIL 2, 2021 – EXTEND COIR ROLLS IN SEGMENT 2A
REV. 3-10-21
REV. 2-10-21 PROFILES

TOPOGRAPHIC PLAN

SHOWING

PROPOSED LOW CRESTED STONE REVETMENT W/ ANCHORED COIR ROLLS FOR ROADWAY EMBANKMENT STABILIZING

AT

EMMONS ROAD, TOBY ISLAND, BOURNE

MAY 13, 2020 SCALE - AS NOTED

PREPARED BY
CAPE COD ENGINEERING, INC.
ROBERT M. PERRY, P.E.
P.O. BOX 1517
EAST DENNIS, MA 02641
TEL 508-385-1445

PLAN OF Record