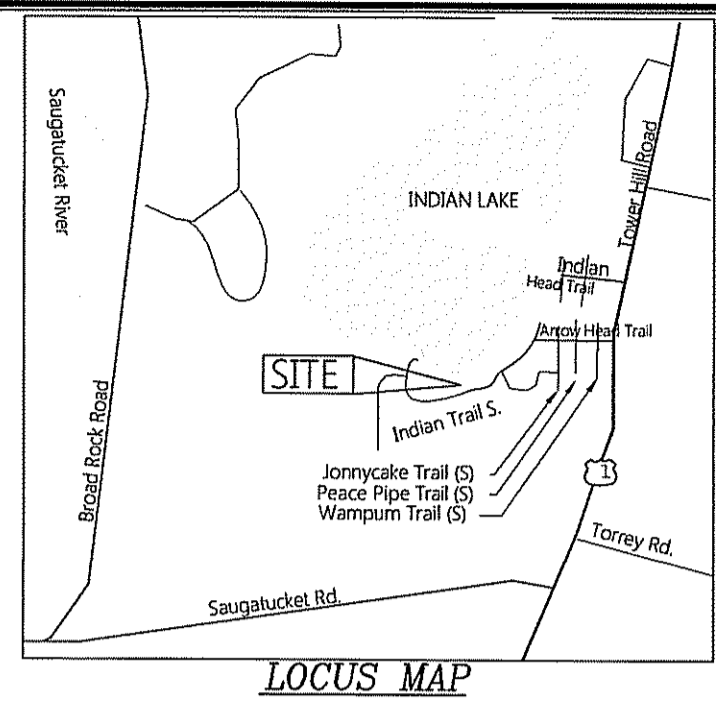


Environmental Management
AUG 30 2016
 Office of Water Resources



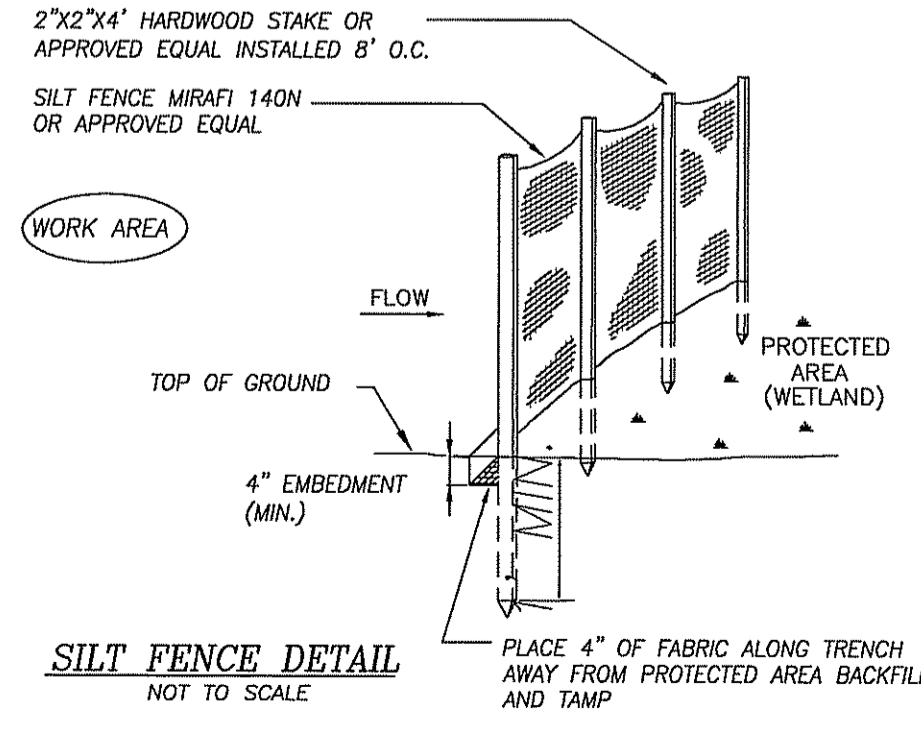
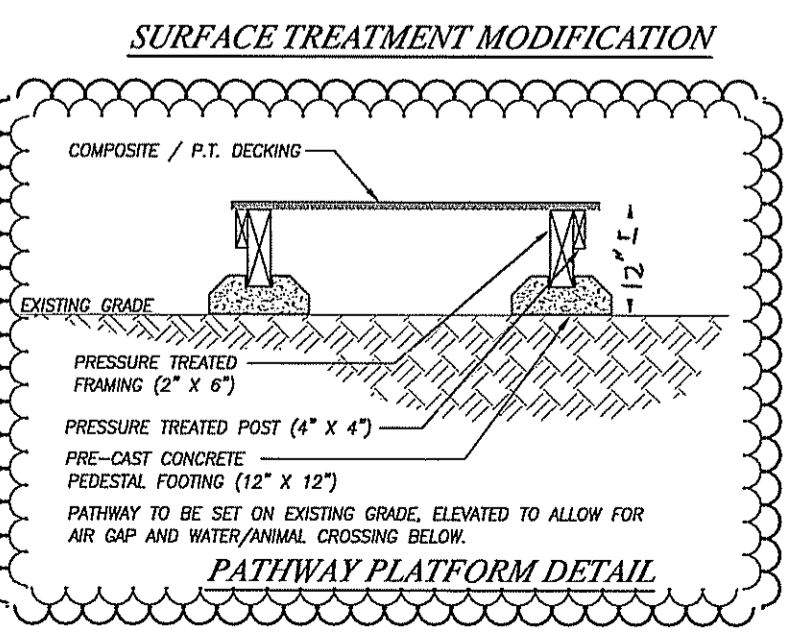
1. STD. 9.1 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES. SILT FENCE FABRIC SHALL NOT BE SUIT-STD. 9.1 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2" X 4" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED ON 6'-0" (MAX.) CENTERS IN WETLAND AREAS AND LOCATED ON 4'-0" (MAX.) CENTERS IN WETLAND RAVINE, GULLY OR DROPOFF AREAS AS SHOWN ON PLANS

EROSION & SEDIMENT CONTROL NOTES:

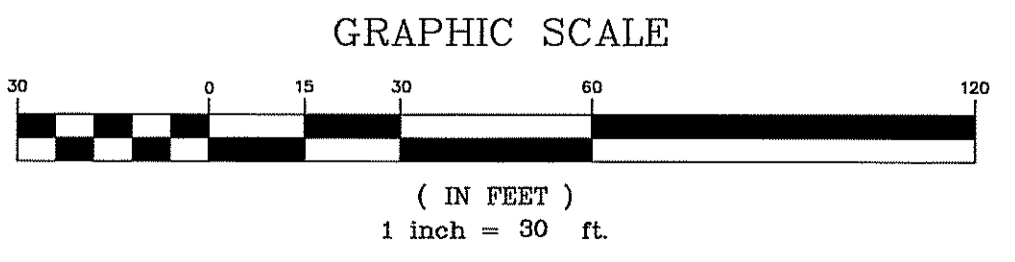
- EXTREME CARE SHALL BE EXERCISED TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING A WETLAND, STREET, OR NEIGHBORING PROPERTY. THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE ANY DISTURBED AREAS.
- ALL EROSION CONTROL METHODS, MATERIALS, AND MAINTENANCE SHALL BE ACCOMPLISHED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, (USDA); AND THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, (DECEMBER 2010).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL TEMPORARY EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER. ALL RUNOFF SHALL BE CONTROLLED. IN NO CASE SHALL ANY DIRECT RUNOFF FROM BARE OR DENuded AREAS BE ALLOWED TO ENTER ONTO ADJUTING PROPERTIES OR INTO THE WETLAND BUFFERS.
- HAYBALES/SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AREAS AS SHOWN ON THE PLANS. BALED HAY EROSION CHECKS SHALL BE PLACED AT ALL DRAINAGE STRUCTURE INLETS, EXISTING AND PROPOSED, DURING CONSTRUCTION. ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER. SPOIL AND STOCKPILE MATERIALS REMAINING EXPOSED FOR LONGER THAN 30 DAYS SHALL BE ENCIRCLED WITH SILT FENCING OR HAYBALES AND COVERED WITH EROSION CONTROL MIX.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS UNTIL ALL AREAS
- SEEDING - SEED IS TO BE DISTRIBUTED EVENLY OVER THE TOP 1 INCH OF TOPSOIL. SEED SHALL BE URI #2, OR APPROVED EQUAL CONSERVATION MIX. APPLY AT A RATE OF 4-5 # / 1,000 S.F. RECOMMENDED SEEDING DATES ARE MARCH 15 - JUNE 15 AND SEPTEMBER 15 - NOVEMBER 15.
- SHOULD THE VEGETATION PLANTING SEASON BE PASSED, WINTER MULCHING OF ALL EXPOSED SURFACES SHALL BE COMPLETED BY DECEMBER 1. WINTER MULCHING SHALL CONSIST OF THE FOLLOWING EROSION CONTROL MIX.

EROSION CONTROL MIX
 - USE EROSION CONTROL MIX AS A LONG-TERM SOIL COVER THAT WILL EVENTUALLY ALLOW THE GROWTH OF VEGETATION, IF DESIRED.
 - EROSION CONTROL MIX INCLUDES SHREDDED OR COMPOSTED BARK, STUMP GRINDINGS, OR OTHER COMPOSTED WOOD PRODUCTS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, OR PROCESSED WOOD ARE NOT ACCEPTABLE.
 - APPLY THE EROSION CONTROL MIX AS A LAYER AT LEAST THREE INCHES THICK. DO NOT COMPACT THE MIX WITH EQUIPMENT.
 HAY MULCH
 - USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDDED AREAS.
 - APPLY AT A RATE OF TWO SQUARE BALES (70-80 POUNDS) PER 1000 SQ FT OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE.
 - ANCHOR THE HAY MULCH USING ONE OF THE FOLLOWING METHODS:
 - STAPLE JUTE OR PLASTIC NETTING OVER THE MULCH ACCORDING TO THE NET OR JUTE MANUFACTURER'S RECOMMENDATION.
 - STRETCH TWINE BETWEEN PEGS IN A CRISS-CROSS PATTERN OVER THE MULCH (4-6 PEGS PER SQ YD). MULCHING SHALL FOLLOW GUIDELINES IN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 4 & CHAPTER 5, A TEMPORARY MULCHING. STRAW / HAY SHALL BE APPLIED AT 90# / 1,000 S.F. FREE FROM WEEDS AND ANCHORED WITH MULCH NETTING.

MODIFICATION SITE PLAN



- LEGEND:**
- EXISTING CONTOURS
 - EXISTING SITE CONDITIONS
 - PROPOSED CONDITIONS
 - EXISTING PROPERTY LINE
 - EXISTING UTILITY POLE
 - DELINEATED WETLANDS
 - WETLAND SETBACK
 - TREELINE
 - STONEWALL
 - EROSION CONTROLS / HAYBALES



RESIDENTIAL DOCK PLAN
 177 INDIAN TRAIL SOUTH
 PLAT 34-4 / LOT 20
 SOUTH KINGSTOWN, RHODE ISLAND

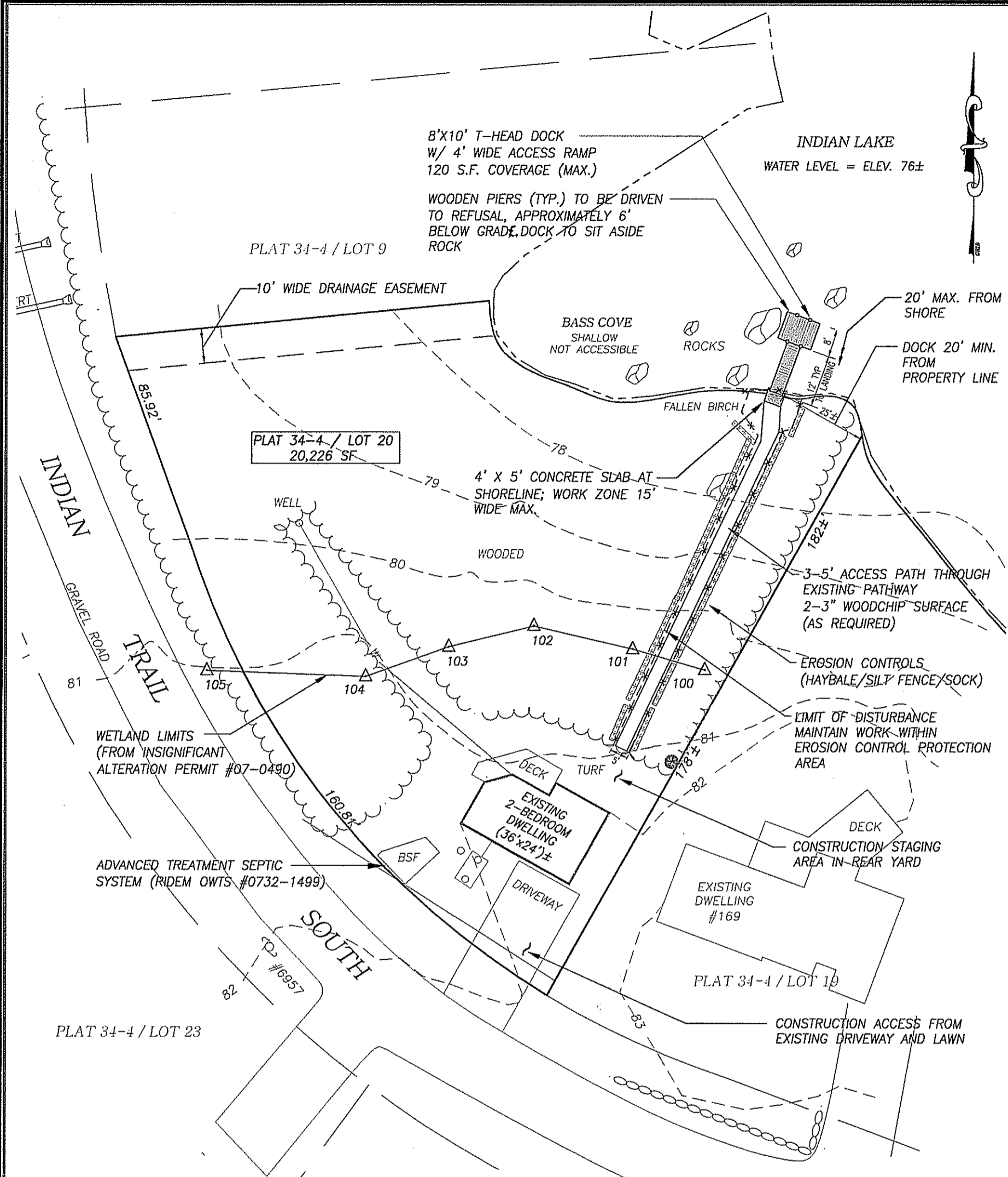
PREPARED BY:
JEFFREY J. CAMPOPIANO P.E.
 16 WEST MAIN STREET
 BUCKFORD, RHODE ISLAND 02852
 PHONE: (401) 295-3037/FAX: (401) 295-1118

PREPARED FOR:
DAN CUNNINGHAM
 177 Indian Trail South
 Wakefield, Rhode Island 02879

P.D. 16-0142 MODIFICATION II

REV.	DATE	DESCRIPTION	DATE: 5/16
1	8/16	REMOVAL OF WOODCHIP PATH FOR ELEVATED PEDESTAL PATHWAY	SCALE: 1" = 30'
2	8/26	SHORESIDE DOCK CLASSIC DOCK SERIES KIT	1
		ORIGINAL P.D. LIMITS HELD	

REGISTERED PROFESSIONAL ENGINEER



EROSION & SEDIMENT CONTROL NOTES:

1. EXTREME CARE SHALL BE EXERCISED TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING A WETLAND, STREET, OR NEIGHBORING PROPERTY. THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE ANY DISTURBED AREAS.
2. ALL EROSION CONTROL METHODS, MATERIALS, AND MAINTENANCE SHALL BE ACCOMPLISHED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, (USDA); AND THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, (DECEMBER 2010).
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4. HAYBALES/SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AREAS AS SHOWN ON THE PLANS. BALED HAY EROSION CHECKS SHALL BE PLACED AT ALL DRAINAGE STRUCTURE INLETS, EXISTING AND PROPOSED, DURING CONSTRUCTION. ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER. SPOIL AND STOCKPILE MATERIALS REMAINING EXPOSED FOR LONGER THAN 30 DAYS SHALL BE ENCIRCLED WITH SILT FENCING OR HAYBALES AND COVERED WITH EROSION CONTROL MIX.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS UNTIL ALL AREAS ARE STABILIZED. CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF VEGETATION IS ESTABLISHED.
6. SEEDING - SEED IS TO BE DISTRIBUTED EVENLY OVER THE TOP 1 INCH OF TOPSOIL. SEED SHALL BE URI #2, OR APPROVED EQUAL CONSERVATION MIX. APPLY AT A RATE OF 4-5 # / 1,000 S.F. RECOMMENDED SEEDING DATES ARE MARCH 15 - JUNE 15 AND SEPTEMBER 15 - NOVEMBER 15.
7. SHOULD THE VEGETATION PLANTING SEASON BE PASSED, WINTER MULCHING OF ALL EXPOSED SURFACES SHALL BE COMPLETED BY DECEMBER 1. WINTER MULCHING SHALL CONSIST OF THE FOLLOWING EROSION CONTROL MIX.

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 - MULCHING SHALL FOLLOW GUIDELINES IN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 4 & CHAPTER 5, A TEMPORARY MULCHING. STRAW / HAY SHALL BE APPLIED AT 90# / 1,000 S.F. FREE FROM WEEDS AND ANCHORED WITH MULCH NETTING.

CONSTRUCTION REQUIREMENTS:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES, THE RHODE ISLAND STATE BUILDING CODE (SBC-2), THE LOCAL BUILDING INSPECTION OFFICE IN THE TOWN OF SOUTH KINGSTOWN AND/OR ANY APPROPRIATE AUTHORITY HAVING JURISDICTION AT THE PROJECT LOCATION.
2. WHERE DISCREPANCIES EXIST BETWEEN STANDARD PRACTICE, COMMENTS AND NOTES IN THESE PLAN SETS AND THE APPLICABLE CODE, THE MOST RESTRICTIVE CONSTRUCTION METHOD SHALL APPLY.
3. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. DIMENSIONS SHALL BE CHECKED AND VERIFIED PRIOR TO ORDERING MATERIALS.

TIMBER NOTES:

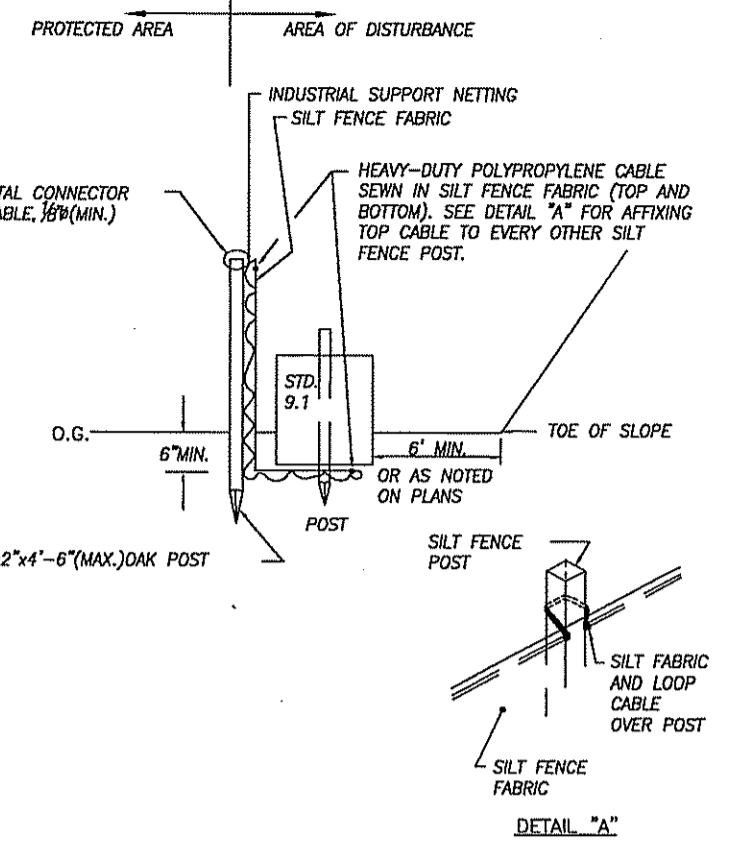
1. TIMBER CONSTRUCTION SHALL CONFORM TO PART II "DESIGN SPECIFICATIONS" AS PUBLISHED IN THE TIMBER CONSTRUCTION MANUAL (AFC 1974) AND TO "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (1982).
2. NEW TIMBER FOR STRUCTURAL USE SHALL HAVE A 19% MOISTURE CONTENT AS SPECIFIED IN THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (1982).
3. ALL HANGERS AND FASTENERS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
4. STRUCTURAL LUMBER SHALL BE SOUTHERN PINE #1 OR CONSTRUCTION GRADE AS LISTED IN THE "GRADING RULES FOR SOUTHERN PINE LUMBER" PUBLISHED BY THE SOUTHERN PINE INSPECTION BUREAU & AS LISTED IN THE NATIONAL FOREST PRODUCT ASSOCIATION "NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENING. ALLOWABLE UNIT STRESSES IN EXTREME FIBER AND BENDING EQUAL TO OR GREATER THAN 1,500 PSI AND A MODULUS OF ELASTICITY EQUAL TO OR GREATER THAN 1.6 X 10⁶ PSI.
5. ALL LUMBER SHALL BE TREATED WITH 0.6 LB/CF OF AMMONIACAL COPPER QUATERNARY (ACQ) OR APPROVED EQUAL FOR WOOD PRESERVATION IN FRESH WATER IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION REQUIREMENTS (AWPA) FOR AQUATIC USE. CHROMATED COPPER ARSENATE (CCA) SHALL NOT BE USED IN FRESH WATER APPLICATIONS.

CONCRETE NOTES:

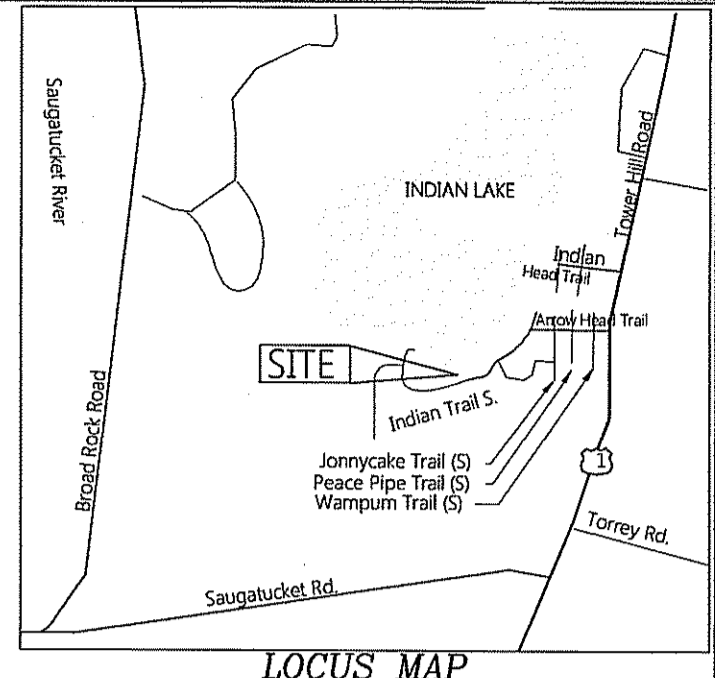
1. SOIL BEARING CAPACITY - MINIMUM 3000 PSF, GENERAL CONTRACTOR TO VERIFY.
2. FOOTING TO BE PLACED ON UNDISTURBED NATURAL SOIL OR ENGINEERED COMPACTED FILL.
3. CONCRETE SHALL BE AIR-ENTRAINED WITH A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS: MINIMUM 3,000 PSI @ 28 DAYS.
4. ALL REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-83 AND DETAILED WITH ACI 315-74.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 40.
6. CONCRETE COVER FOR REINFORCING SHALL BE 3-INCHES FOR FOOTINGS AND 2-INCHES FOR PILES.
7. ALL SLAB ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC (WFF) AT MIDPOINT CONFORMING TO ASTM A-185.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 13 2016 FILE # 16-0142
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

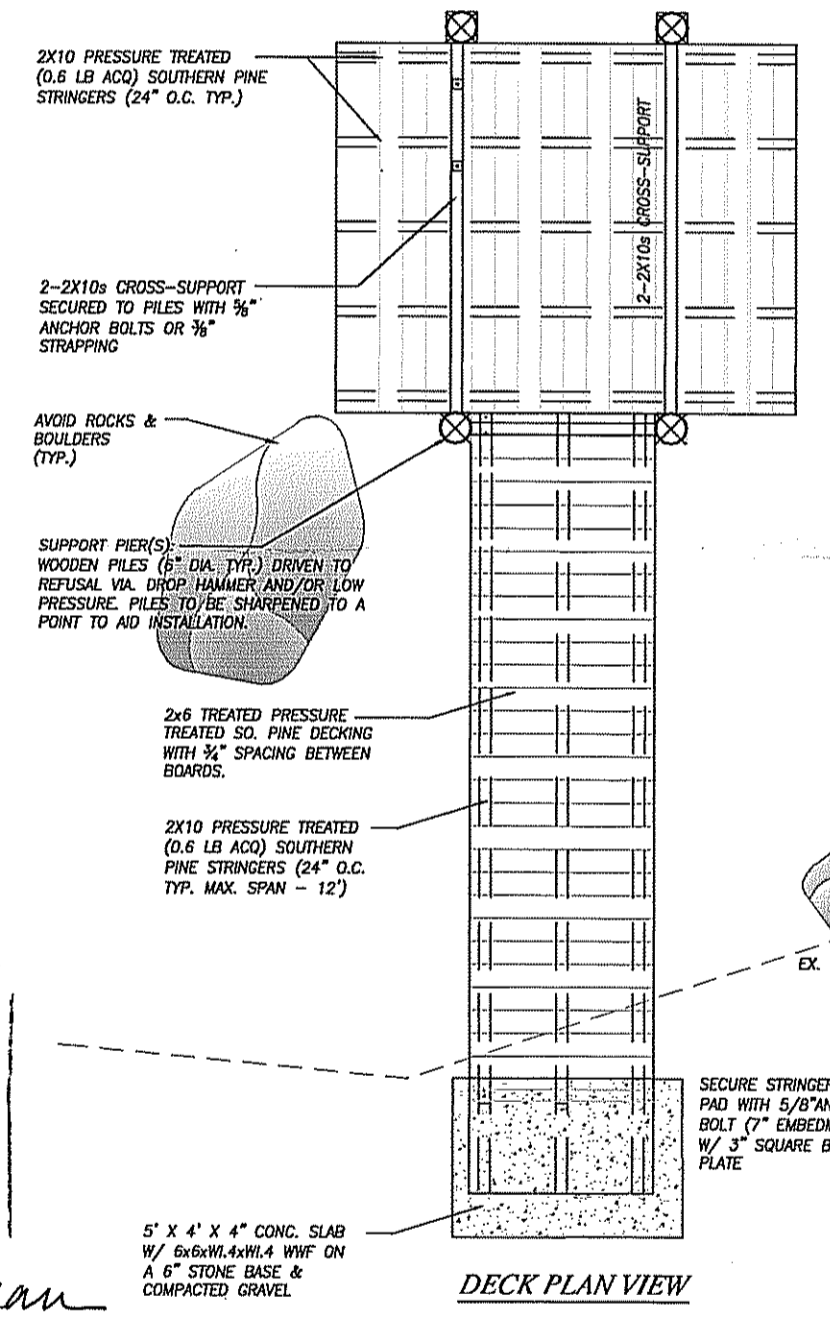


HAYBALE WITH SILT FENCE

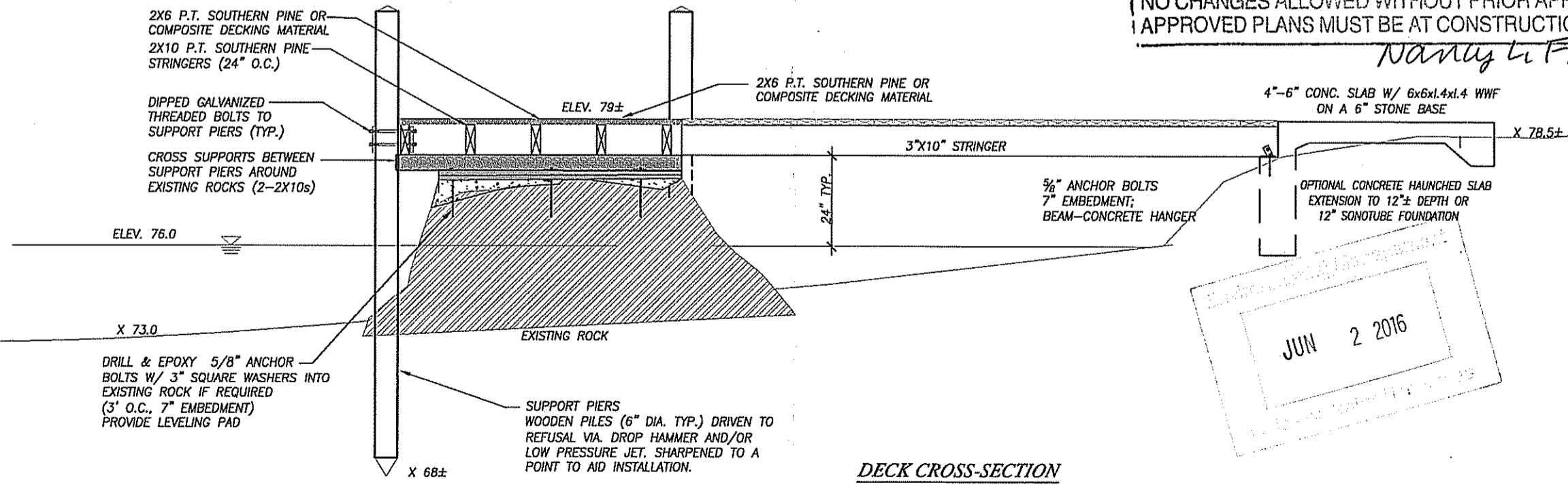


LOCUS MAP

1. STD. 9.1 IS INSTALLED "TIGHT" AGAINST SILT FENCE THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4"-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED ON 4'-0" (MAX.) CENTERS IN WETLAND AREAS AND LOCATED ON 4'-0" (MAX.) CENTERS IN WETLAND RAVINE, GULLY OR DROPOFF AREAS AS SHOWN ON PLANS.
2. R.I. STD. 9.1 AND SILT FENCE WILL BE PAID FOR UNDER THE APPROPRIATE PAY ITEMS, COMPLETE IN-PLACE.



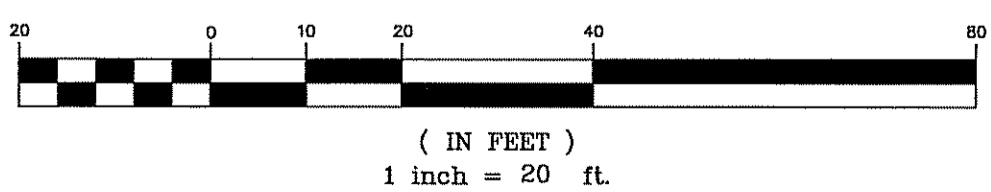
DECK PLAN VIEW



DECK CROSS-SECTION

- LEGEND:**
- 101 - EXISTING CONTOURS
 - - EXISTING SITE CONDITIONS
 - - PROPOSED CONDITIONS
 - - EXISTING PROPERTY LINE
 - UP/ - EXISTING UTILITY POLE
 - - DELINEATED WETLANDS
 - - WETLAND SETBACK
 - - TREELINE
 - - STONEWALL
 - - EROSION CONTROLS / HAYBALES

GRAPHIC SCALE



RESIDENTIAL DOCK PLAN
177 INDIAN TRAIL SOUTH
PLAT 34-4 / LOT 20
SOUTH KINGSTOWN, RHODE ISLAND

PREPARED BY: **JEFFREY J. CAMPOPIANO P.E.**
16 WEST MAIN STREET
WICKFORD, RHODE ISLAND 02852
PHONE: (401) 295-3017 FAX: (401) 295-1118

PREPARED FOR: **DAN CUNNINGHAM**
177 Indian Trail South
Wakefield, Rhode Island 02879

REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY DETERMINATION

REV.	DATE	DESCRIPTION	DATE: 5/16

SCALE: 1" = 20'

1