TOWN OF EAST HAMPTON, CONNECTICUT LOCATION #1: PAUL AND SANDY'S LOCATION #2: CHRISTOPHER POND LOCATION #3: WATER SUPPLY FACILITY FOR EDGEMERE CONDOMINIUMS LOCATION #4: TOWN HALL POND LOCATION #5: SPELLMAN POINT ROAD LOCATION #6: BAY ROAD CULVERT DATE: MAY 7, 2022, Revised: 6/5/22

## STORMWATER RETROFIT PLANS PREPARED FOR





# TRINKAUS ENGINEERING, LLC SOUTHBURY, CONNECTICUT 06488





APPROXIMATE PATH OF RUNOFF FROM I RRIGATI ON POND

LIMIT OF CLEARING AND AREA -TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

### WATTLE #1 LOCATION STAKED IN FIELD



WATTLE #1

WATTLE #2

WATTLE #3 LOCATION STAKED IN FIELD

WATTLE #3

LI MI T OF CLEARI NG AND AREA TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

LIMIT OF CLEARING AND AREA TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS

APPROXIMATE PATH OF RUNOFF FROM CT DOT CULVERT



NOTE: EACH WATTLE SHALL BE 40' IN LENGTH (APPROXIMATE LOCATIONS ARE STAKED IN THE FIELD). EACH WATTLE BARRIER SHALL CONSIST OF SIX STAKED 6" FILTREXX SOXX IN TRIANGULAR CROSS SECTION (SEE DETAIL) AND STAKED IN PLACE. END OF SOXX SHALL BE TIGHTLY BUTTED TOGETHER AND JOINTS SHALL BE STAGGERED AND NOT IN LINE NOTE: BRUSH SHALL BE CLEARED BY HAND AT EACH WATTLE LOCATION FOR THE BARRIER AS WELL AS 10' BEYOND THE LIMIT OF THE WATTLE BARRIER. REMOVED BRUSH SHALL BE PLACED OUTSIDE LIMIT OF CLEARED END. THE GROUND SURFACE SHALL BE LIGHTLY RAKED WITH A METAL GARDEN RAKE AND THEN SEED WITH NEW ENGLAND WETMIX FROM NEW ENGLAND WETLAND PLANTS AND COVERED WITH STRAW SHREDDED MULCH.



6" FILTREXX SOXX BARRIER ACROSS FLOW PATH OF RUNOFF

- THREE ON BOTTOM

- TWO ON MIDDLE - ONE ON TOP

- SOXX SHALL BE STAKED IN PLACE USING 1" X 1" OAK STAKES, THE STAKES SHALL BE DRIVEN A MINIMUM OF 12" INTO EXISTING GRADE - STAKES SHALL BE SET 12" FROM THE END OF THE SOXX AND AT EIGHT (8) FOOT SPACING (PLUS OR MINUS)

#### EXISTING GRADE

NOTE: THE SOXX ON THE BOTTOM AND SHALL BE STEPPED ON BY MANUAL LABORERS TO FLATTEN THE B OTTOM OF THE SOXX ONTO THE EXISTING GRADE PRIOR TO STAKING IN PLACE

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TOWN OF EAST HAMPTON	SHEET 2 OF 9		UTVIL ENGINEEKS 114 HINTERS RIDGE ROAD
	PROJECT #017-2022		SOUTHBURY, CONNECTI CUT 06488
FAUL AIND JAINDI J INUKJEKI	SCALE: $1'' = 20'$		203-264-4558 (ph)
EAST HAMPTON - CONNECTI CUT	DATE: 5/7/22, Rev. 6/5/22	DEVELOPMENT TRINKAUS ENGINEERING	Ellian: surmkauseear unink.net Website: www.trinkausengineering.com



SAND BAG BARRIER FROM END OF HEADWALL TO NORTH, THEN ACROSS BYPASS CHANNEL (OPEN WATER) AND TO NORTH SIDE OF EARTH BERM - SEE DETAIL AND PHOTOGRAPHS AFTER SAND BAG BARRIER HAS BEEN PLACED, EARTH

SHALL BE REMOVED BY HAND ON SOUTH SIDE OF SAND

BAG BARRIER TO LOWER GRADE TO TOP OF

STONES (SEE PHOTOGRAPH) ACROSS BERM -

WIDTH OF SOIL TO BE REMOVED SHALL BE 36"

EXISTING -HEADWALL

### LOCATION OF SAND BAG BARRIER STAKED IN THE FIELD



NOTE: THIS PROJECT WILL REQUIRE THE PLACEMENT OF SAND BAGS AND MODIFIED RIPRAP OVER 31 SQUARE FEET OF A MAN-MADE FLOW CHANNEL. THIS CHANNEL WAS CREATED AT A BYPASS CHANNEL FOR THE WESTERNMOST CULVERT UNDER CHRISTOPHER ROAD. IN ADDITION TO THE BYPASS CHANNEL, THE SOUTHERN END OF THE BERM WAS EXTENDED TO THE EAST WHICH IS PERPENDICULAR TO THE FLOW OF THE CROSS CULVERTS WHICH FILLED IN A SMALL PORTION OF THE POND WHEN INSTALLED. THE JUSTIFICATION FOR THE FILLING OF 31 SQUARE FEET OF THE OVERFLOW CHANNEL IS TO DIRECT ALL FLOW FROM THE TWO CROSS CULVERTS DIRECTLY INTO CHRISTOPHER POND SO THAT THE FLOW CAN GO THROUGH THE THREE ROWS OF CATTAILS (TO BE PLANTED) AS WELL AS THE PROPOSED MODULAR WETLAND SYSTEMS. BOTH OF THESE PLANTED SYSTEMS WILL ALLOW FOR THE TRAPPING AND REMOVAL FROM THE WATER COLUMN, BOTH NI TROGEN AND PHOSPHOROUS WHICH WILL PREVENT THESE NUTRIENTS FROM REACHING THE LAKE.

NOTE: REFER TO WRITTEN NARRATIVE BY HILLARY KENYON REGARDING THE CATTAIL PLANTINGS AND MODULAR WETLAND SYSTEMS.

APPROXIMATE EDGE OF POND AND BYPASS CHANNEL TAKEN FROM GIS MAPPING

PROPERTY LINE PER TOWN OF EAST HAMPTON GIS MAPPING

APPROXIMATE LOCATION OF FLOATING WETLAND TREATMENT SYSTEMS (1,000 SQUARE FEET) THREE ROWS OF CATTAILS TO BE PLANTED IN THIS GENERAL AREA

### LOCATION WHERE SOIL TO BE REMOVED TO ELEVATION OF TOP OF STONES ON UPHILL SIDE OF SAND BAG BARRIER

### LOCATION OF SAND BAG BARRIER FROM STAKE TO FACE OF HEADWALL

			[4]
PREPARED FOR	STORMWATER MANAGEMENT PLAN	LOW IMPACT SUSTAINABLE	TRI NKAUS ENGI NEERI NG, LLC
TOWN OF EAST HAMPTON	SHEET 3 OF 9		CI VI L ENGI NEERS 114 HUNTERS RIDGE ROAD
CHRI STOPHER POND	PROJECT #017-2022 SCALE: 1" = 20'		SOUTHBURY, CONNECTI CUT 06488 203-264-4558 (ph)
EAST HAMPTON - CONNECTI CUT	DATE: 5/7/22, Rev. 6/5/22	DEVELOPMENT TRINKAUS ENGINEERING	Email: strinkaus@earthlink.net Website: www.trinkausengineering.com





NOTE: AFTER THE BY-PASS CHANNEL HAS BEEN BLOCKED OFF BY THE SAND BAGS, THE TOP AND DOWNSTREAM SIDE OF THE SAND BAGS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDED WITH NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX BY NEW ENGLAND WETLAND PLANTS (www.newp.com)

NOTE: UPSTREAM FACE OF SAND BAGS SHALL BE 3:1 (HORIZONTAL TO VERTICAL) A 12" THICK LAYER OF NATIVE FIELD STONES SHALL BE PLACED ON UPSTREAM SIDE OF SAND BAGS TO REDUCE FLOW VELOCITIES - EXTENT OF FIELD STONES SHALL EXTEND FROM FACE OF EXISTING HEADWALL TO CENTER OF BERM ACROSS THE BY-PASS CHANNEL





WATTLE #1 LOCATION

### EXISTING WELL



NOTE: REFER TO WRITTEN NARRATIVE BY HILLARY KENYON FOR MORE INFORMATION ON THE "LIVE STAKING" ALONG THE CHANNEL BANK AS SHOWN ON THIS PLAN.

WATTLE #2 LOCATION

#### WATTLE #3 LOCATION





### TYPICAL CROSS SECTION OF FILTREXX SOXX CROSSING NOT TO SCALE

-CHANNEL AT EDGEMERE WELL LOCATION THREE 6" FILTREXX SOXX STAKED IN BOTTOM OF CHANNEL - ENDS OF SOXX TO BE SET FLUSH AT CHANNEL BANK - SOXX SHALL BE STAKED IN PLACE WITH 1" X 1" OAK STAKES WHICH ARE DRIVEN AT LEAST 18" INTO THE BOTTOM OF THE CHANNEL - SEE DETAIL STAKES SHALL BE SET A 36" SPACING

APPROXIMATE CROSS SECTION OF STREAM CHANNEL AT EDGEMERE WELL LOCATION -THREE 6" FILTREXX SOXX STAKED IN BOTTOM OF CHANNEL - ENDS OF SOXX TO BE SET FLUSH AT CHANNEL BANK - SOXX SHALL BE STAKED IN PLACE WITH 1" X 1" OAK STAKES WHICH ARE DRIVEN AT LEAST 18" INTO THE BOTTOM OF THE CHANNEL - SEE DETAIL STAKES SHALL BE SET A 36" SPACING





#### EXISTING FLARED END



![](_page_7_Figure_3.jpeg)

### NOTE: CONTRACTOR TO REMOVE BRUSH BY HAND CUTTING AND LOOSE ORGANIC DEBRIS WITHIN 5' OF THE EXISTING OUTLET PIPE TO MINIMIZE THE POTENTIAL OF CLOGGING.

#### POND AND OUTLET PIPE #1

12" SECTION OF 15" DIAMETER OF HANCOR N-12 PIPE - 0.5" DRILLED HOLES ON OUTER RIBS AT 6" CENTER TO CENTER SPACING AROUND PERIMETER OF PIPE - SPACING MAY BE ADJUSTED BY CONTRACTOR IN THE FI ELD.

3. INSTALL 12" LONG SECTION OF 15" HANCOR PIPE WITH PERFORATIONS (SEE DETAIL)

PL GEMENT 22 5

LLC

NGI NEERI NG

022 Z CUJ HAMPTON **ONNEC**  $\square$ PO C **JP** RED TOW PRE

POND AND OUTLET PIPE #2

![](_page_8_Figure_0.jpeg)

IT IS CRITICAL TO THE FUNCTION OF THE WET SWALE THAT THE WETLAND SEED MIXTURE BECOME FULLY ESTABLI SHED AND STABLE PRIOR TO THE INTRODUCTION OF STORMWATER FROM THE TWO

TO ACHIEVE THIS GOAL, A TEMPORARY 12" HDPE PIPE SHALL BE INSTALLED AT CB #2 AND LAID ON THE GROUND SURFACE OR SLIGHTLY INTO THE GROUND OUTSIDE THE LIMIT OF THE WET SWALE TO

1. Anchor Engineering shall stake the limits of the existing 20' wide drainage easement from Spellman Point Road to a point at the lowest most Filtrexx Soxx shown on the site plan. The contractor must limit access and

3. The 15" RCP, Catch Basin #3 shall be removed from Point "A" to Point "B" as shown on the plan. This material shall be disposed of by the contractor off-site. Contractor shall coordinate with the Department of Public Works.

5. The contractor shall grade and shape the Wet Swale to the required subgrade elevation (6" below the proposed bottom of the Wet Swale). Topsoil with a high silt and organic content shall be placed in the Wet Swale to the

9. Once the vegetation has become established in the Wet Swale, then the temporary by-pass pipe can be removed

![](_page_8_Picture_14.jpeg)

EXISTING WETLAND/INTERMITTENT WATERCOURSE JUST OUTSIDE LIMIT OF EASEMENT

![](_page_8_Picture_16.jpeg)

VIEW OF EASEMENT AREA AND EXISTING HOUSE TO THE WEST OF THE EASEMENT

![](_page_8_Picture_18.jpeg)

![](_page_9_Figure_0.jpeg)

QTY	KEY	<b>BOTANICAL NAME</b>
3 LB LINDE		LINDERA BENZOIN
3	MP	MYRICA PENSYLVANICA
35	HF	DENNSTAEDTIA PUNCTILO
30	RF	

- 100 RF OSMUNDA REGALIS 25 BS SCHIZACHYRIUM SCOPARIUM
- COMMON NAME NORTHERN BAYBERRY HAYSCENTED FERN CINNAMON FERN **ROYAL FERN** LITTLE BLUESTEM
- 2-3' HT. CONT. 1 QT. 1 QT. #1 CONT. STAKE PLANTS #1 CONT. STAKE PLANTS
- 1 QT. NOTE: HERBACEOUS PLANTS AVAILABLE AT PINELANDS NURSERY & SUPPLY (PINELANDSNURSEY.COM) AND NEW ENGLAND WETLANDS PLANTS, INC. (NEWP.COM).

![](_page_9_Picture_8.jpeg)

NOTE: SURVEY/TOPOGRAPHIC DATA WAS OBTAINED IN THE FIELD BY BARTON & LOGUIDICE, LLC FOR THE TOWN OF EAST HAMPTON.

17 BAY ROAD

N/F PETER CALLAN

🕉 LANDSCAPE 😤 ₿PLANNING 🏖

![](_page_9_Figure_11.jpeg)

------ NONNATIVE INVASIVE SPECIES MANAGEMENT AREA TREE LINE TO REMAIN (APPROX.) NEW DECIDUOUS SHADE TREE

NEW DECIDUOUS SMALL TREE

🖄 🛛 NEW SEEDED AREA (AS PER PLAN NOTES)

#### NOTES:

- 1. EXISTING AND PROPOSED SITE INFORMATION TAKEN FROM A DIGITAL AUTOCADD SITE PLAN SUPPLIED BY TRINKAUS ENGINEERING, LLC.
- 2. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 TO HAVE UNDERGROUND UTILITY LINES MARKED BY THEM PRIOR TO START OF ANY EXCAVATION WORK.
- 3. EXACT LOCATION OF PROPOSED PLANTINGS AND SPECIES TYPES MAY VARY FROM THIS PLAN BASED ON
- 4. PLANT SPECIES SUBSTITUTIONS MAY BE MADE WITH THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PLANTING. SUBSTITUTED PLANTS SHALL BE AT AN EQUAL OR GREATER SIZE AS NOTED USING A
- 5. PLANTING METHODS SHALL BE IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- 6. THIS PLAN FOR PLANTING PURPOSES ONLY.
- 7. SPRAY NEW PLANTINGS IMMEDIATELY AFTER INSTALLATION WITH A WHITE-TAILED DEER REPELLENT AND CONTINUE AS NEEDED TO MAINTAIN PLANTS FREE OF SIGNIFICANT DEER BROWSING.
- 8. ROYAL AND CINNAMON FERNS TO BE PLANTED WHEN WATER LEVELS ARE LOW AND SHALL BE STAKED USING 4-6" LONG BIODEGRADABLE STAKES.

![](_page_9_Picture_25.jpeg)

TYPICAL SPACING FOR 1 GAL. OR 1 QT. CONT.

+, <del>\</del> TYPICAL SPACING FOR 2" PLUGS PLAN VIEW

\$ \$ **1**8 \$

SOIL

- BIODEGRADABLE PLANTING STAKES (IF SPECIFIED ON PLAN) **ELEVATION** SPREAD ROOTS EVENLY

NOTES: 1. WETLAND PLANTS ARE NOT TO BE FERTILIZED (UNLESS OTHERWISE SPECIFIED). 2. ROOTS SHALL BE CAREFULLY SEPARATED AND EVENLY SEPARATED THROUGHOUT THE

HERBACEOUS PLANTING DETAILS

SCALE: NOT TO SCALE

![](_page_9_Picture_34.jpeg)

8 KNIGHT STREET, SUITE 203 NORWALK, CONNECTICUT 06851

Tel: (203) 855-7879 Fax: (203) 855-7836 info@elsllc.net www.elsllc.net

BLE TRINKAUS ENGINEERING, LLC	CI VIL ENGINEERS 114 HUNTERS RIDGE ROAD	SOUTHBURY, CONNECTI CUT 06488 203-264-4558 (ph)	NT Email: Surinkaus@eartnink.net NG Website: www.trinkausengineering.com
LOW IMPACT SUSTAINA			DEVELOPMEN TRINKAUS ENGINEERI
STORMWATER MANAGEMENT PLAN	SHEET 9 OF 9	<b>FRUJECT # U1/-ZUZZ</b> <b>SCALE:</b> $1^{"} = 10^{"}$	DATE: 5/7/22, Rev. 6/5/22
EPARED FOR	<b>JWN OF EAST HAMPTON</b>	AY ROAD	<b>AST HAMPTON - CONNECTI CUT</b>