



# City of East Providence, Rhode Island

## Plans for the Construction of East Pointe Development Boat Launch and Bicycle Path

Roger Williams Avenue  
East Providence, Rhode Island. 02916

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



FOR ILLUSTRATIVE PURPOSES ONLY

**June 2018**

**Prepared By**

**Weston & Sampson<sup>SM</sup>**

427 Main Street, Suite 400, Worcester, MA  
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www.westonandsampson.com

**PERMITTING**  
NOT FOR CONSTRUCTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED NOV 09 2018 FILE # 18-0112  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Christopher D. Wawack*

### **SHEET INDEX**

C1.00.....	COVER
L1.00.....	OVERALL EXISTING CONDITIONS PLAN
L2.00.....	EXISTING CONDITIONS AND SITE PREPARATION PLAN
L3.00.....	STORMWATER MANAGEMENT PLAN
L3.01.....	ENLARGEMENT MATERIALS PLAN
D1.01.....	EROSION AND SEDIMENTATION CONTROL DETAILS
S1.00.....	GENERAL NOTES AND DOCK PLAN
S1.01.....	DOCK SECTIONS

SEP 21 2018

DUANE C. HIMES  
No. 6044  
REGISTERED  
PROFESSIONAL ENGINEER

9/20/18



**C1.00**



Consultants:

Revisions:

No.	Date	Description
1	18/20/17	REVISIONS PER COMMENTS

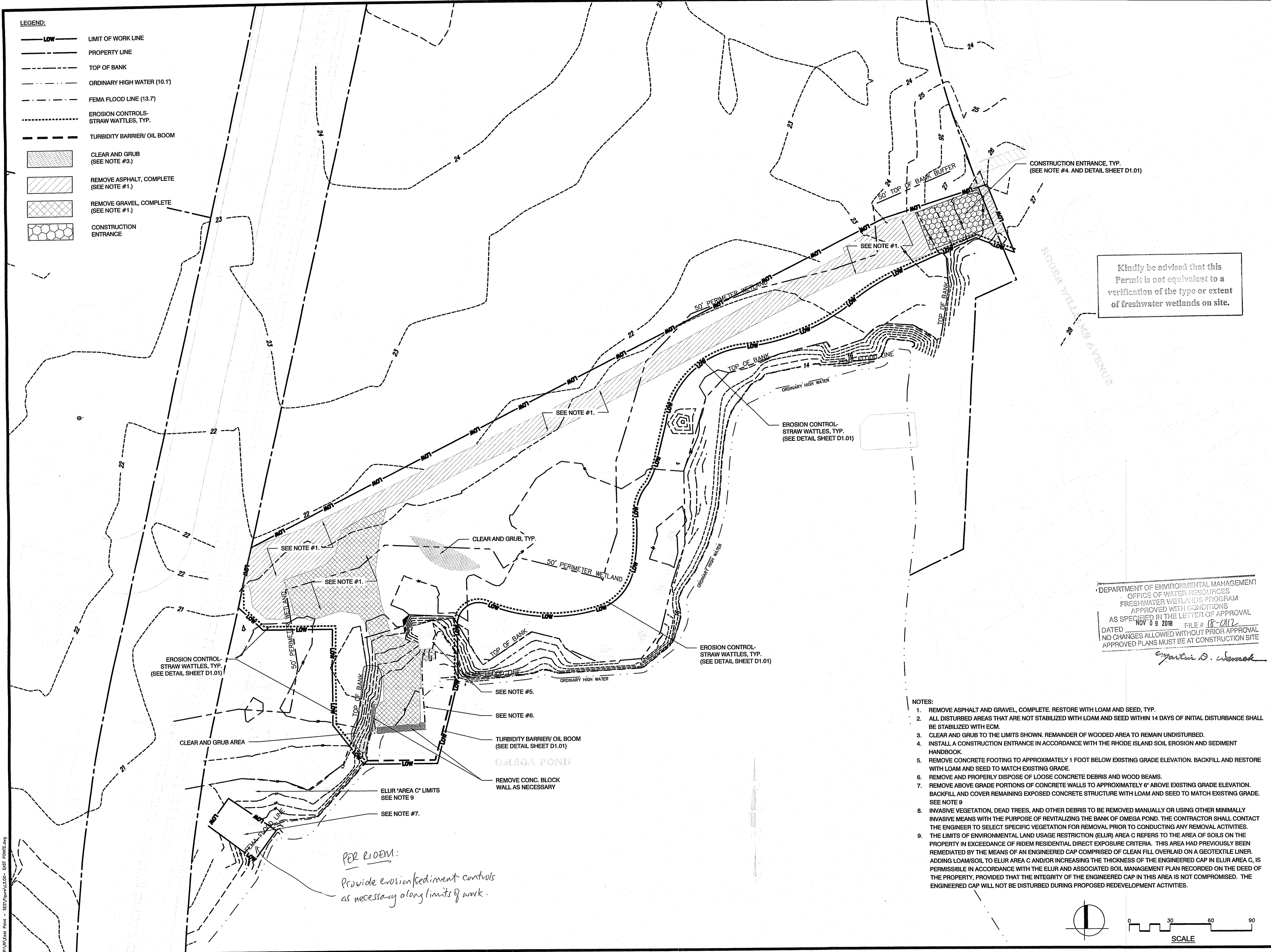
Seal: DUANE C. HIMES  
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Drawing Title:  
EXISTING CONDITIONS  
AND SITE PREPARATION  
PLAN

Sheet Number:  
**L2.00**  
SHEET 3 OF 8



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*Jonathan D. Wenzel*

- NOTES:
1. REMOVE ASPHALT AND GRAVEL, COMPLETE. RESTORE WITH LOAM AND SEED, TYP.
  2. ALL DISTURBED AREAS THAT ARE NOT STABILIZED WITH LOAM AND SEED WITHIN 14 DAYS OF INITIAL DISTURBANCE SHALL BE STABILIZED WITH ECM.
  3. CLEAR AND GRUB TO THE LIMITS SHOWN. REMAINDER OF WOODED AREA TO REMAIN UNDISTURBED.
  4. INSTALL A CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT HANDBOOK.
  5. REMOVE CONCRETE FOOTING TO APPROXIMATELY 1 FOOT BELOW EXISTING GRADE ELEVATION. BACKFILL AND RESTORE WITH LOAM AND SEED TO MATCH EXISTING GRADE.
  6. REMOVE AND PROPERLY DISPOSE OF LOOSE CONCRETE DEBRIS AND WOOD BEAMS.
  7. REMOVE ABOVE GRADE PORTIONS OF CONCRETE WALLS TO APPROXIMATELY 6" ABOVE EXISTING GRADE ELEVATION. BACKFILL AND COVER REMAINING EXPOSED CONCRETE STRUCTURE WITH LOAM AND SEED TO MATCH EXISTING GRADE. SEE NOTE 9.
  8. INVASIVE VEGETATION, DEAD TREES, AND OTHER DEBRIS TO BE REMOVED MANUALLY OR USING OTHER MINIMALLY INVASIVE MEANS WITH THE PURPOSE OF REVITALIZING THE BANK OF OMEGA POND. THE CONTRACTOR SHALL CONTACT THE ENGINEER TO SELECT SPECIFIC VEGETATION FOR REMOVAL PRIOR TO CONDUCTING ANY REMOVAL ACTIVITIES.
  9. THE LIMITS OF ENVIRONMENTAL LAND USAGE RESTRICTION (ELUR) AREA C REFERS TO THE AREA OF SOILS ON THE PROPERTY IN EXCEEDANCE OF RIDEM RESIDENTIAL DIRECT EXPOSURE CRITERIA. THIS AREA HAD PREVIOUSLY BEEN REMEDIATED BY THE MEANS OF AN ENGINEERED CAP COMPRISED OF CLEAN FILL OVERLAIN ON A GEOTEXTILE LINER. ADDING LOAM/SOIL TO ELUR AREA C AND/OR INCREASING THE THICKNESS OF THE ENGINEERED CAP IN ELUR AREA C, IS PERMISSIBLE IN ACCORDANCE WITH THE ELUR AND ASSOCIATED SOIL MANAGEMENT PLAN RECORDED ON THE DEED OF THE PROPERTY, PROVIDED THAT THE INTEGRITY OF THE ENGINEERED CAP IN THIS AREA IS NOT COMPROMISED. THE ENGINEERED CAP WILL NOT BE DISTURBED DURING PROPOSED REDEVELOPMENT ACTIVITIES.

*FOR EROSION:  
Provide erosion/sediment controls  
as necessary along limits of work.*

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- LEGEND:**
- LOW — LIMIT OF WORK LINE
  - — — — — PROPERTY LINE
  - - - - - TOP OF BANK
  - - - - - ORDINARY HIGH WATER (10.1)
  - - - - - FEMA FLOOD LINE (13.7)
  - - - - - DRY SWALE, TYP.

TRASH RECEPTACLE WITH DOMED COVER AND PET WASTE STATION ON CONC. PAD, AT TWO LOCATIONS

2' WIDE x .5' DEEP DRY SWALE WITH 3:1 SIDE SLOPES AND 3' WIDE GRASS FILTER STRIP, TYP. (SEE SHEET D1.01)

ACCESSIBLE WALK WAY, TYP. 2% SLOPE MAX, TOWARDS SWALE, TYP.

50' PERIMETER WETLAND

TOP OF BANK

FLOOD LINE

ORDINARY HIGH WATER

TRASH RECEPTACLE WITH DOMED COVER AND PET WASTE STATION ON CONC. PAD, AT TWO LOCATIONS

DOCK

ADA RAMP

RIPRAP SWALE OUTLET

CRUSHED STONE BOAT LAUNCH

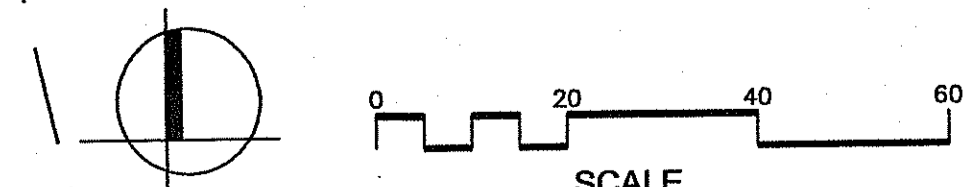
OMEGA POND

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*Gregory D. Wemack*

- NOTES:**
1. PROVIDE EROSION CONTROL MATTING (ECM) FOR SLOPES GREATER THAN 3:1, TYP.
  2. ALL DISTURBED AREAS THAT ARE NOT STABILIZED WITH LOAM AND SEED WITHIN 14 DAYS OF INITIAL DISTURBANCE SHALL BE STABILIZED WITH ECM.
  3. THE ORDINARY HIGH WATER (OHW) LINE WAS ESTIMATED USING INFORMATION FROM THE "FISH PASSAGE FACILITY AT OMEGA POND DAM TEN MILE RIVER, EAST PROVIDENCE, RI" PREPARED BY THE ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT IN MAY 2008, AND THE REPORT TITLED "TEN MILE RIVER HYDROPOWER FEASIBILITY STUDY" PREPARED BY THE ESSEX PARTNERSHIP, LLC IN MAY 2011. DRAWING C-2 - SITE PLAN OF THE FISH PASSAGE PLAN SET SHOWS THE ELEVATION OF THE OMEGA POND DAM CREST AT 9.90' (NAVD88). THE ESSEX PARTNERSHIP, LLC PERFORMED A VISUAL INSPECTION OF THE DAM ON OCTOBER 13, 2010 DURING WHICH THE SPILLWAY WAS DISCHARGING WATER AT A DEPTH OF 1-2". WESTON & SAMPSON ESTIMATES THE OHW LINE TO BE EQUAL TO THE SUM OF THE 9.90' CREST ELEVATION AND THE 2' DISCHARGE DEPTH, PROVIDING AN APPROXIMATE OHW ELEVATION OF 10.1'.
  4. CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE AT DOCK STATING "NO JUMPING, DIVING, SWIMMING, ETC." SIGN TO BE APPROVED BY OWNER PRIOR TO INSTALLATION.



Project:  
CITY OF EAST PROVIDENCE, RI

EAST POINT DEVELOPMENT BOAT LAUNCH AND BICYCLE PATH

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STORMWATER MANAGEMENT PLAN

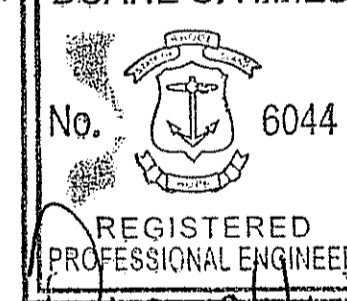
Sheet Number:  
**L3.00**  
SHEET 4 OF 8

- LEGEND:**
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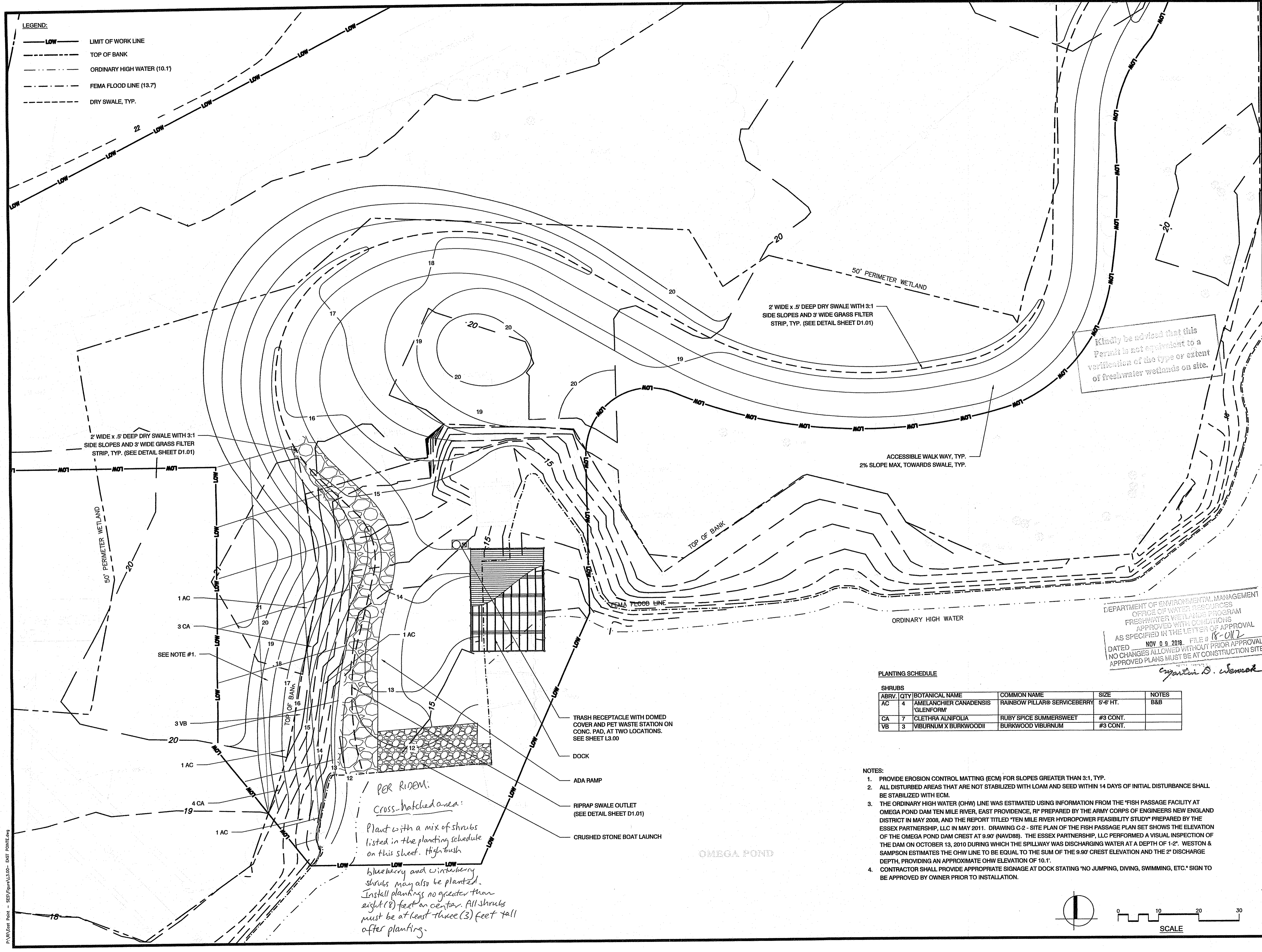
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**ENLARGEMENT MATERIALS PLAN**

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**L3.01**  
 SHEET 5 OF 8



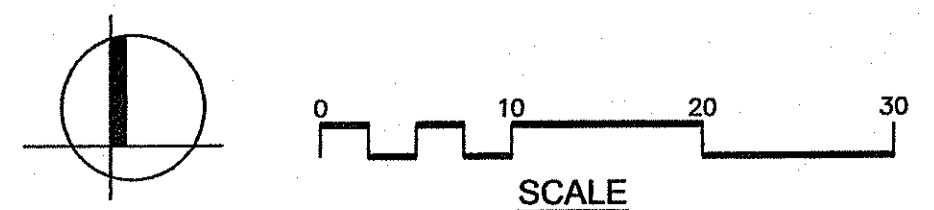
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*Duane C. Himes*

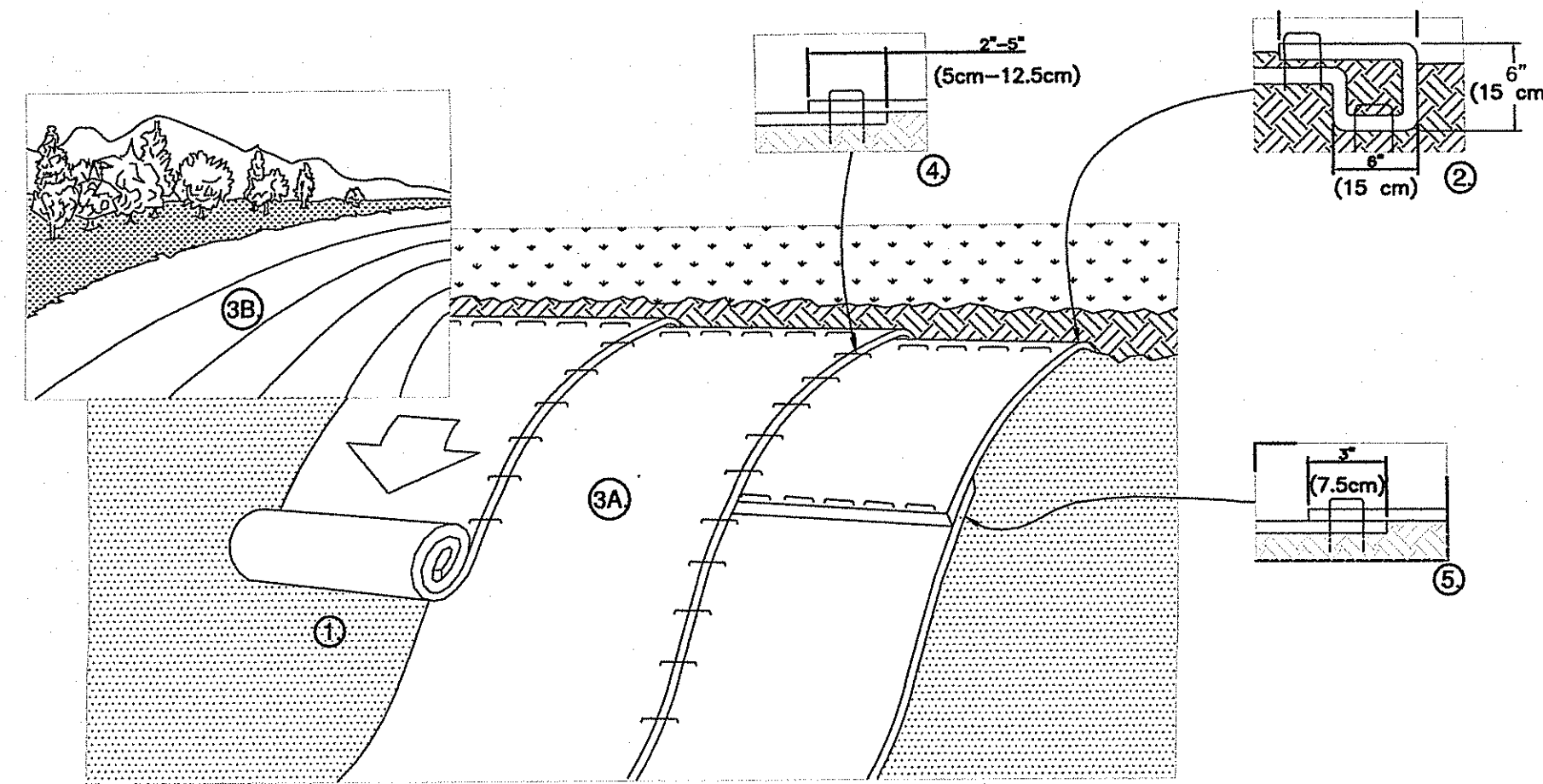
**PLANTING SCHEDULE**

SHRUBS	ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AC	4		AMELANCHIER CANADENSIS 'GLENFORM'	RAINBOW PILLAR® SERVICEBERRY	5-6' HT.	B&B
CA	7		CLETHRA ALNIFOLIA	RUBY SPICE SUMMERSWEET	#3 CONT.	
VB	3		VIBURNUM X BURKWOODII	BURKWOOD VIBURNUM	#3 CONT.	

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  - THE ORDINARY HIGH WATER (OHW) LINE WAS ESTIMATED USING INFORMATION FROM THE 'FISH PASSAGE FACILITY AT OMEGA POND DAM TEN MILE RIVER, EAST PROVIDENCE, RI' PREPARED BY THE ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT IN MAY 2008, AND THE REPORT TITLED 'TEN MILE RIVER HYDROPOWER FEASIBILITY STUDY' PREPARED BY THE ESSEX PARTNERSHIP, LLC IN MAY 2011. DRAWING C-2 - SITE PLAN OF THE FISH PASSAGE PLAN SET SHOWS THE ELEVATION OF THE OMEGA POND DAM CREST AT 9.90' (NAVD88). THE ESSEX PARTNERSHIP, LLC PERFORMED A VISUAL INSPECTION OF THE DAM ON OCTOBER 13, 2010 DURING WHICH THE SPILLWAY WAS DISCHARGING WATER AT A DEPTH OF 1'-2'. WESTON & SAMPSON ESTIMATES THE OHW LINE TO BE EQUAL TO THE SUM OF THE 9.90' CREST ELEVATION AND THE 2' DISCHARGE DEPTH, PROVIDING AN APPROXIMATE OHW ELEVATION OF 10.1'.
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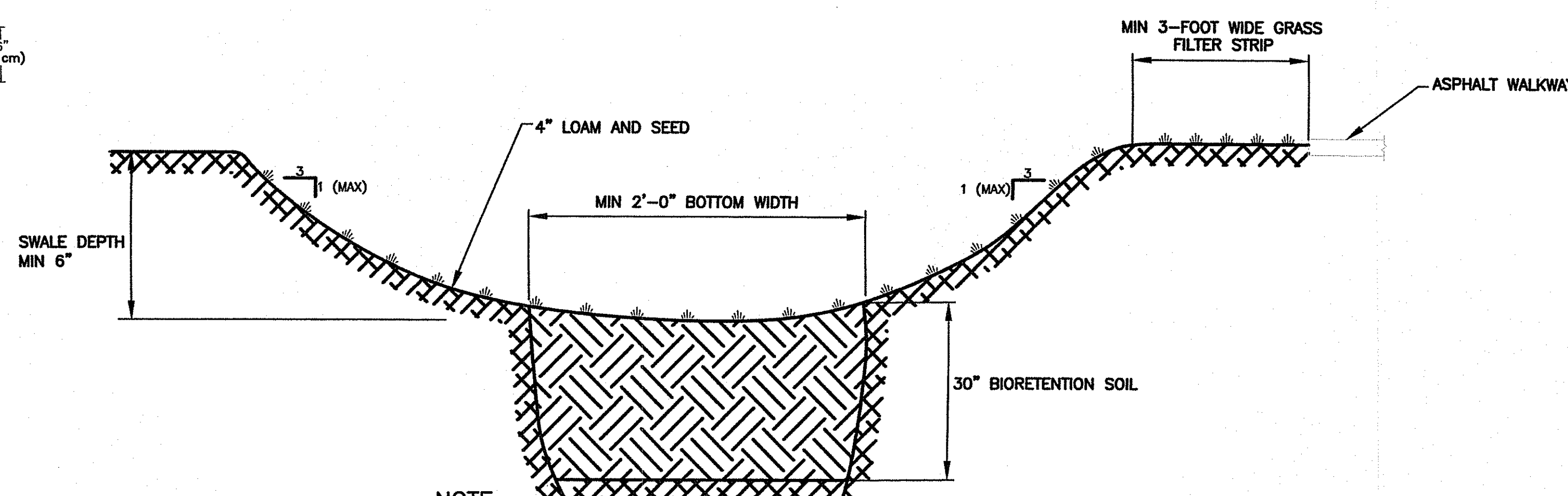


**EROSION CONTROL MATTING (ECM)**

N.T.S.

**NOTES:**

1. PREPARE SOIL BEFORE INSTALLING, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECM IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH.
3. ROLL THE ECM (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. ALL ECM MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL ECM MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON ECM TYPE.
5. CONSECUTIVE ECM SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE ECM WIDTH.

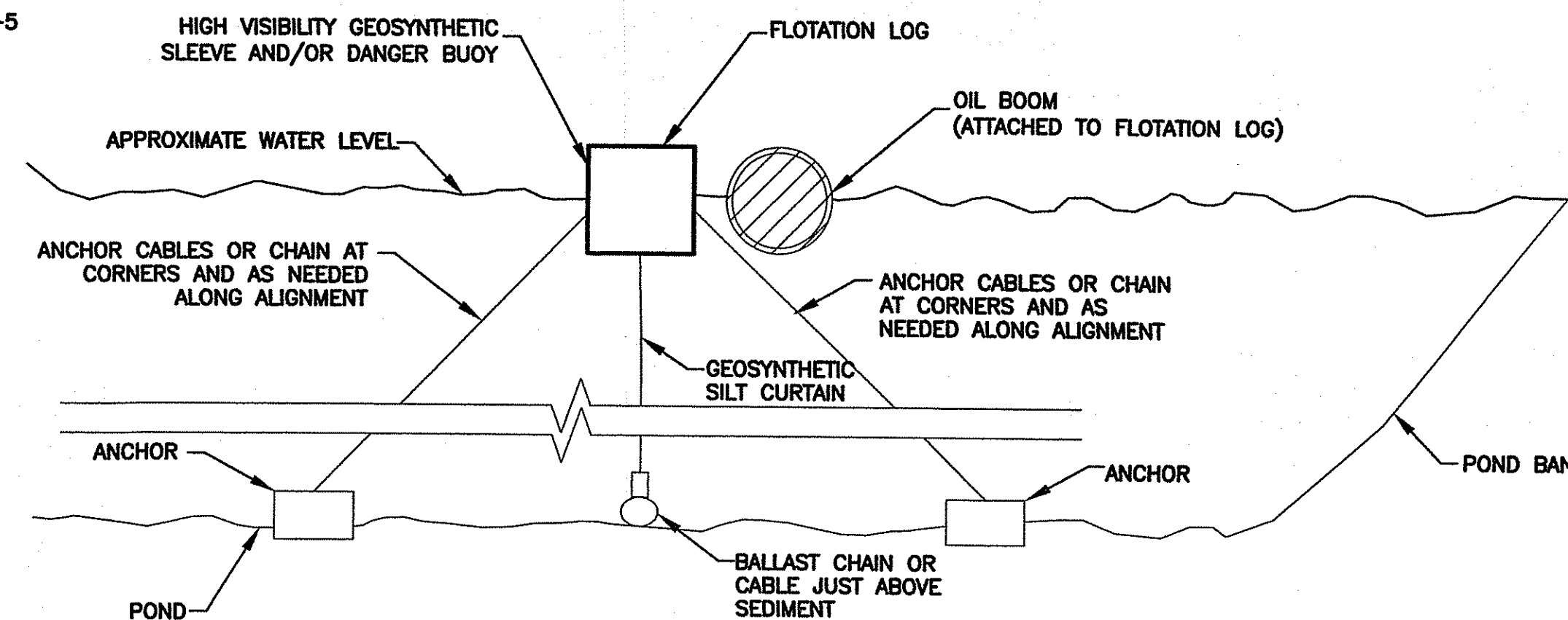


**NOTE:**

THE MARCH 9, 2004 BORING LOG FOR BORING LOCATION B-5 (FOR LOCATION REFER TO ATTACHMENT B - PROPOSED CONDITIONS DRAINAGE MAP OF THE DRAINAGE NARRATIVE), INCLUDED AS ATTACHMENT D OF THE DRAINAGE NARRATIVE, INDICATES GROUNDWATER AT APPROXIMATELY 9 FEET BELOW GRADE.

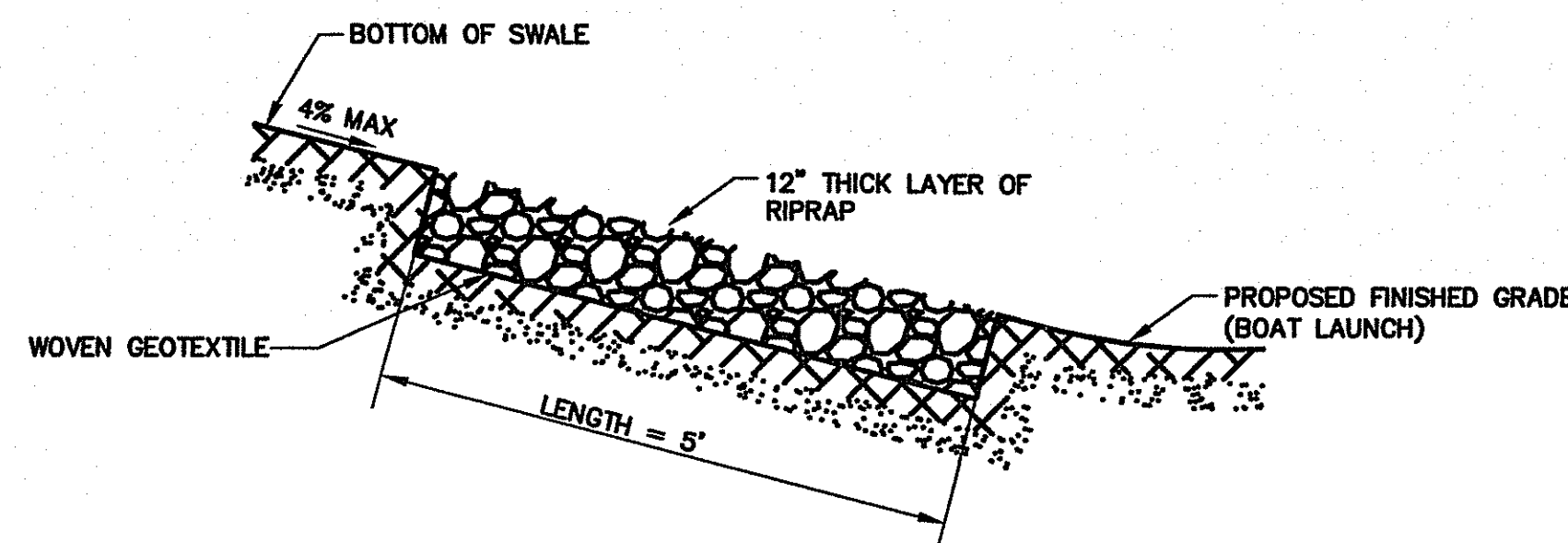
**DRY SWALE DETAIL**

N.T.S.



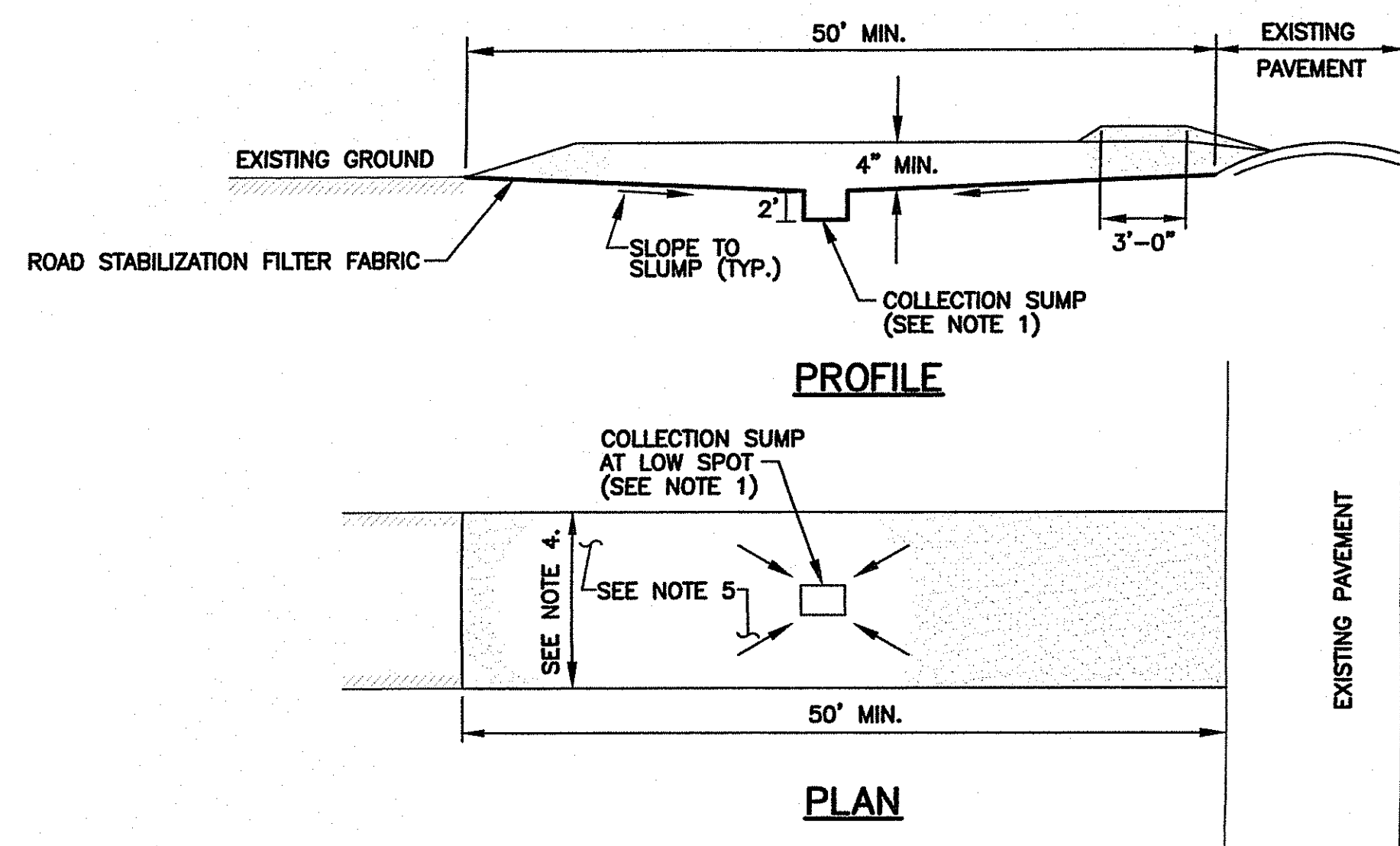
**TURBIDITY BARRIER/OIL BOOM DETAIL**

N.T.S.



**RIP RAP FOR SWALE OUTLET**

N.T.S.

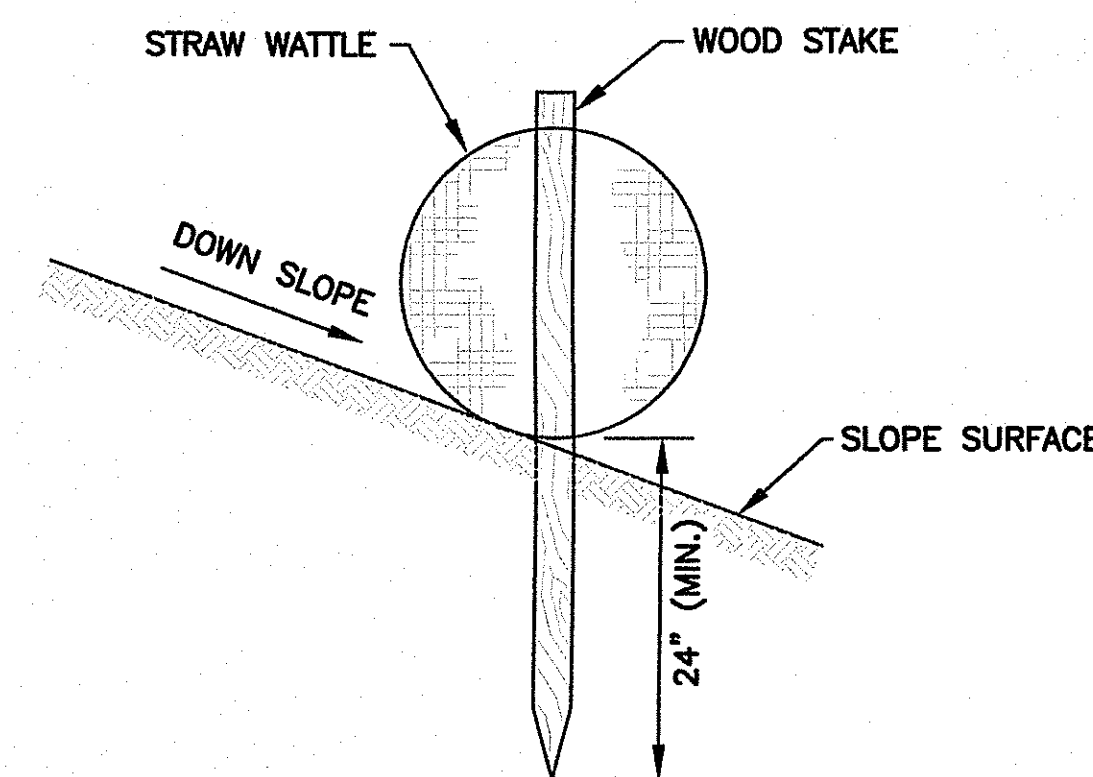


**NOTES:**

1. VEHICLES SHALL BE BRUSH CLEANED TO REMOVE SOIL/DEBRIS PRIOR TO EXITING. IF, AS DETERMINED BY THE ENGINEER, BRUSH CLEANING IS NOT EFFECTIVE IN DECONTAMINATING VEHICLES, THEN THE CONTRACTOR SHALL FLUID WASH THE VEHICLES. WASH STATION SHALL BE CONSTRUCTED WITH A 20 MIL HDPE LINER SYSTEM TO DRAIN TO 2' DEEP HDPE LINED COLLECTION SUMP. DECONTAMINATION WATER IN THE COLLECTION SUMP SHALL BE PUMPED TO A DECONTAMINATION WATER STORAGE VESSEL AND SHALL BE DISPOSED OF AT A LICENSED DISPOSAL FACILITY.
2. THE TRUCK WASH STATION SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SOIL/DEBRIS ONTO ADJACENT PAVED AREAS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF THE COLLECTION SUMP. ALL SOIL/DEBRIS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT PAVEMENT MUST BE REMOVED IMMEDIATELY.
3. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
4. WIDTH OF THE CONSTRUCTION ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF POINTS OF INGRESS OR EGRESS.
5. AGGREGATE TO BE USED SHALL BE ASTM C-33, SIZE NO. 2 OR 3, OR RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) 2" SIZE CRUSHED STONE OR GRAVEL.

**CONSTRUCTION ENTRANCE**

N.T.S.

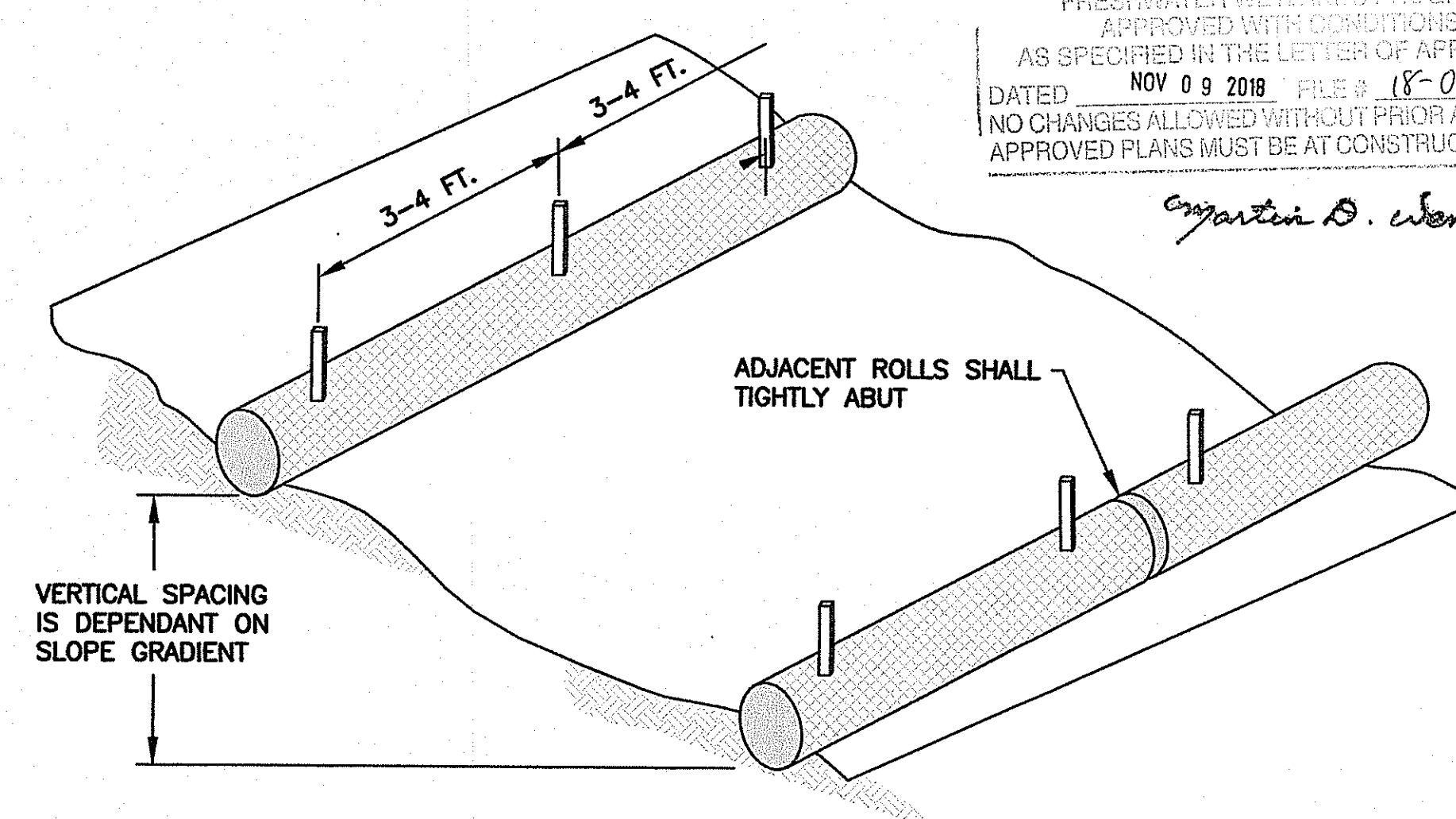


**STAKE DETAIL (ON BARE SOIL)**

N.T.S.

**NOTES:**

1. WATTLE CASING TO BE CONSTRUCTED OF NON-WOVEN GEOTEXTILE FILTER CLOTH OR BIODEGRADABLE JUTE MESH.
2. WATTLES TO BE FILLED WITH BIODEGRADABLE STRAW FILL OR CHIPPED WOOD.
3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. POST-CONSTRUCTION WATTLE CASING AND STAKES WILL BE REMOVED FOLLOWING THE REMOVAL OF SEDIMENT BUILDUP, AND BIODEGRADABLE STRAW WILL BE SPREAD.



**STRAW WATTLE INSTALLATION GUIDE**

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SHEET 6 OF 8

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