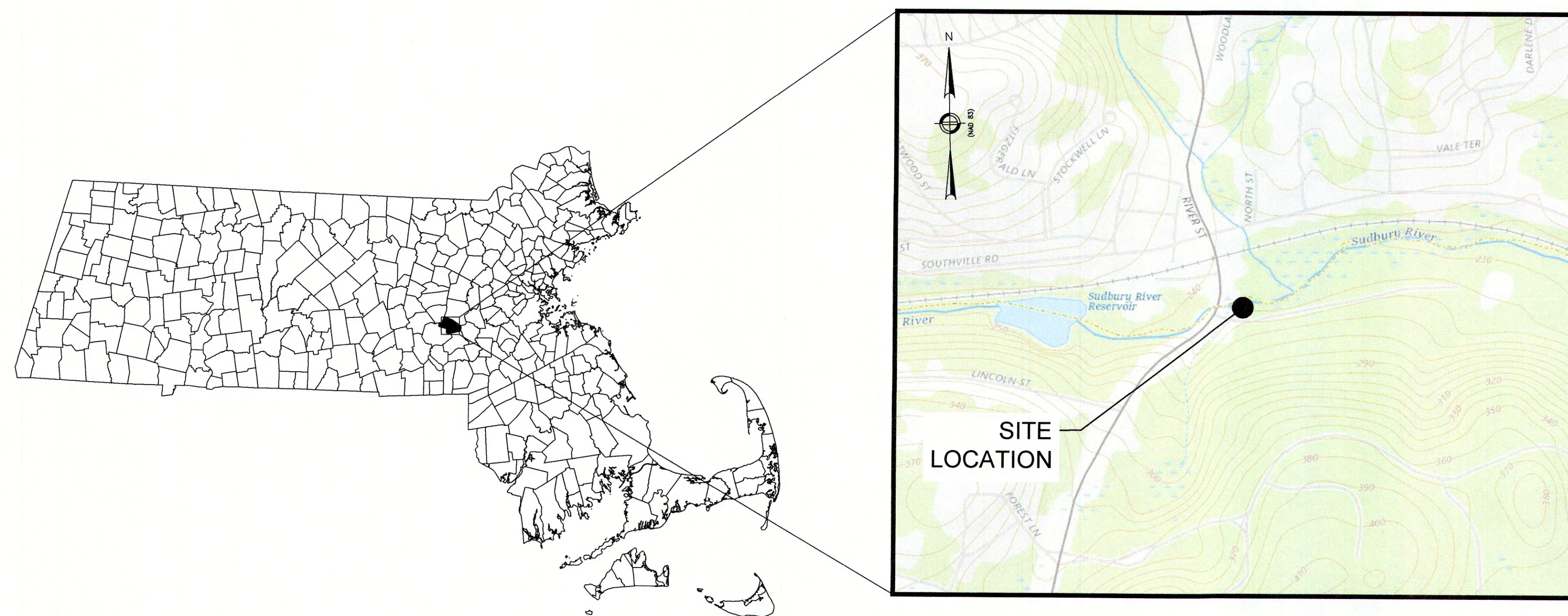


OFFICE OF FISHING AND BOATING ACCESS
SUDBURY RIVER ACCESS FACILITY
ASHLAND, MA

APRIL 2022

CLIENT REPRESENTATIVES

DOUGLAS H. CAMERON – DIRECTOR – OFBA

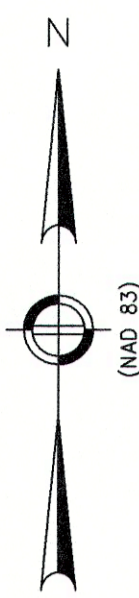


<u>SHEET</u>	<u>TITLE</u>
C-1	EXISTING CONDITIONS
C-2	PROPOSED CONDITIONS
D-1	EROSION CONTROL DETAILS
D-2	DETAILS
P-1	100-YEAR FLOODPLAIN CUT/FILL
P-2	RESOURCE AREA IMPACTS
P-3	25-FOOT NO DISTURB IMPACTS



COMPREHENSIVE ENVIRONMENTAL INCORPORATED

• **BOLTON, MASSACHUSETTS**



APPROX. EDGE OF WATER AT TIME OF SURVEY. ELEV. = 229.0' (BASED ON GROUND SURVEY AND DRONE IMAGERY)

PROPERTY LINE (THREAD OF SUDBURY RIVER)

APPROX. WETLAND LINE

APPROX. ORDINARY HIGH WATER LINE (OHWL) ELEV. = 230'

BENCHMARK (STAKE IN GROUND) NORTHING = 2922052.0840 EASTING = 650492.8470 ELEV. = 239.057'

COMMONWEALTH OF MASSACHUSETTS 100 CAMBRIDGE STREET BOSTON, MA 02110

BENCHMARK (STAKE IN GROUND) NORTHING = 2922022.0360 EASTING = 650267.2600 ELEV. = 246.797'

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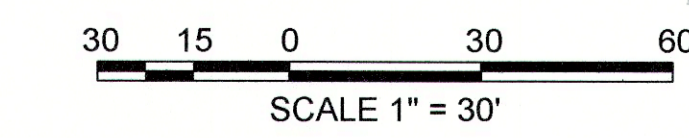
CURTIS SMITHSON
2 AIKENS ROAD
HOPKINTON, MA 01748

COMMONWEALTH OF MASSACHUSETTS 100 CAMBRIDGE STREET BOSTON, MA 02110

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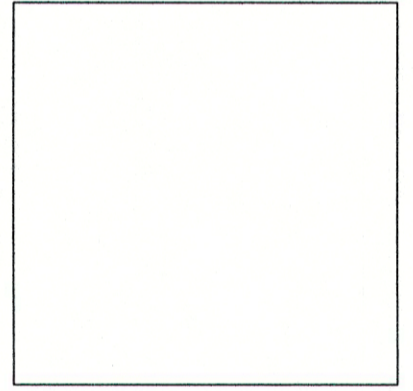
COMMONWEALTH OF MASSACHUSETTS 100 CAMBRIDGE STREET BOSTON, MA 02110

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GENERAL NOTES

- SURVEY WAS PERFORMED BY CEI ON 3/11/21 AND 3/12/21



P.E. STAMP

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED



41 MAIN ST.
BOLTON, MA 01740

EXISTING CONDITIONS
PLAN VIEW

Town of Ashland, MA

Project No.: 346-4
Date: 3/16/2021
Drawn By: NBS
Checked By: MLL
Scale: AS SHOWN

Sheet
C-1

GENERAL NOTES:

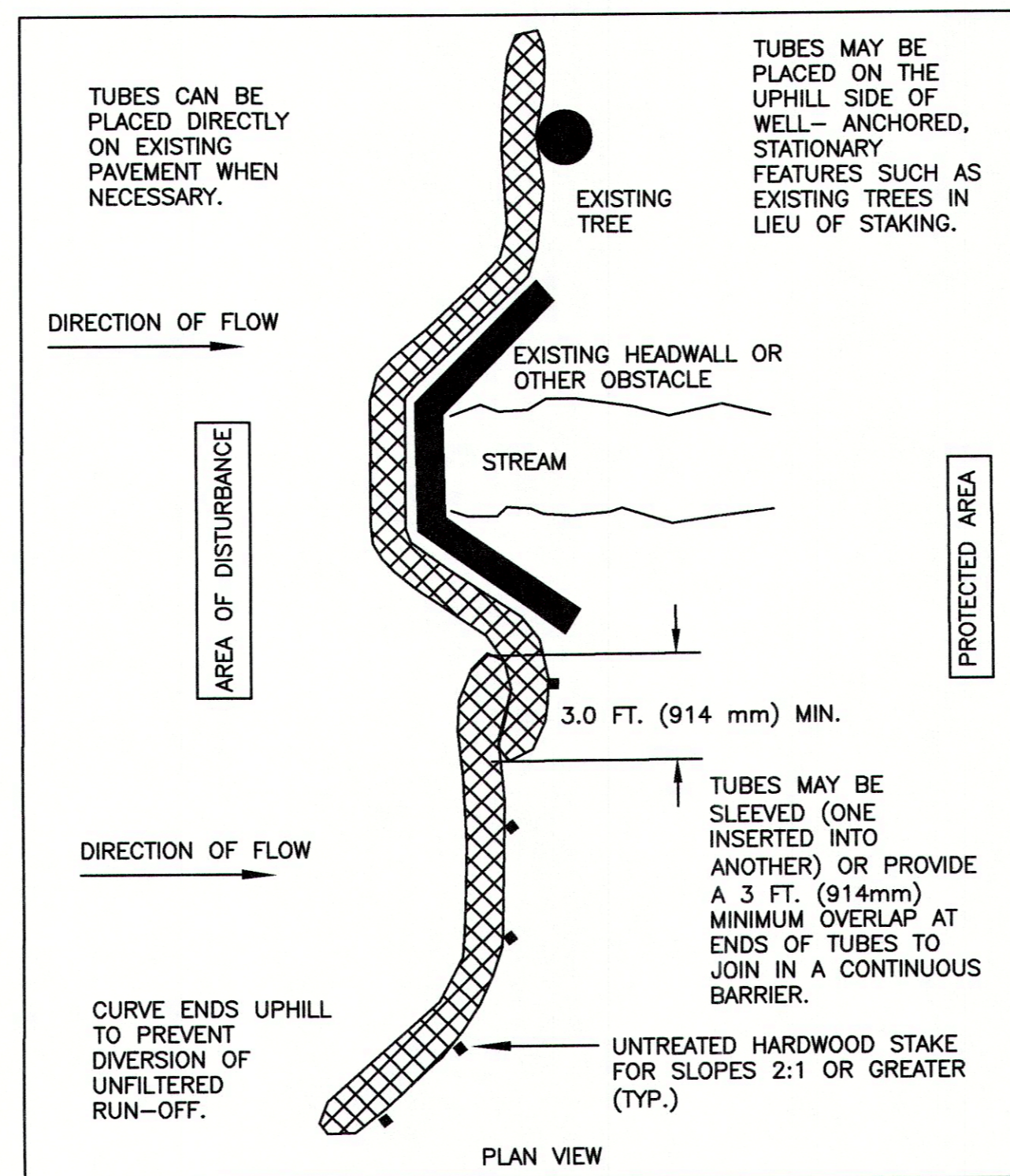
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.

COMPOST FILTER TUBE
MINIMUM 12 INCHES (300mm) IN DIAMETER WITH AN EFFECTIVE HEIGHT OF 9.5 INCHES (240mm).
TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED PHOTO-BIODEGRADABLE MATERIAL, HOWEVER PHOTO-BIODEGRADABLE FABRIC SHALL BE REMOVED AT END OF CONTRACT.
TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.

COMPOST TUBES SHALL BE STAKED OR LEANED AGAINST SUPPORTS (TREES, CINDER BLOCKS) ON SLOPES 2:1 OR GREATER.
WHERE NECESSARY, STAKING SHALL BE MIN. 1 INCH X 1 INCH X 3 FEET UNTREATED HARDWOOD STAKES, UP TO 5 FT. (1.5m) APART OR AS REQUIRED TO SECURE TUBES IN PLACE.

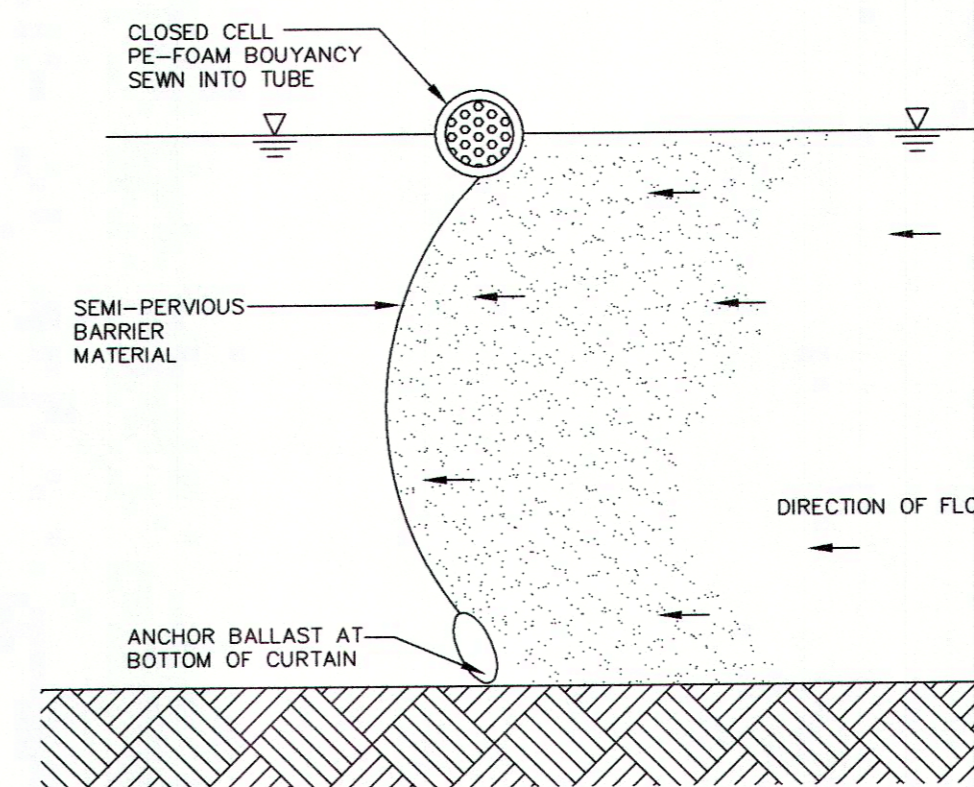
UNDISTURBED SOIL & VEGETATION.
TUBES SHALL BE PLACED AS CLOSE TO LIMITS OF SOIL DISTURBANCE AS POSSIBLE.

LIMIT OF WORK



LINEAR SEDIMENTATION AND EROSION CONTROL DETAIL

SCALE: N.T.S.



**TURBIDITY CUTAIN FOR SILTATION CONTROL
TYP. DETAIL
SCALE: N.T.S.**

NOTES:

1. CONTRACTOR SHALL SUBMIT FOR REVIEW A PROPOSED TURBIDITY CURTAIN DESIGN PRIOR TO START OF CONSTRUCTION. CURTAIN TO BE DESIGNED AND INSTALLED BY SPECIALISTS WITH EXPERIENCE IN INSTALLING AND MAINTAINING TURBIDITY CURTAINS. CURTAIN DESIGN SHALL ACCOMMODATE, AS A MINIMUM, THE ORDINARY HIGH WATER AND APPROXIMATE NORMAL LOW WATER ELEVATIONS.
2. CONTRACTOR SHALL PROVIDE ADEQUATE ANCHORING TO MAINTAIN THE EFFECTIVENESS OF THE TURBIDITY CURTAIN. IF NECESSARY, USE INTERMEDIATE ANCHOR POSTS FOR ADDITIONAL STABILITY (MAX. SPACING 50' O.C.)
3. TURBIDITY CURTAIN SHALL BE 22 OZ.-500 LB/INCH FASTWATER SCREEN BY ELASTEC/AMERICAN MARINE, CARM, IL, OR APPROVED EQUAL.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND ORIENTATION OF TURBIDITY CURTAIN TO PREVENT MIGRATION OF SILT.
5. CONTRACTOR SHALL INSPECT AND MAINTAIN TURBIDITY CURTAIN AT THE START AND END OF EACH WORK DAY.
6. ONLY AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE SITE IS STABILIZED SHALL TURBIDITY CURTAIN BE REMOVED.

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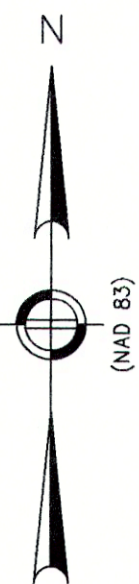
COMPREHENSIVE ENVIRONMENTAL INCORPORATED

41 MAIN ST.
BOLTON, MA 01740

EROSION CONTROL
DETAILS

Town of Ashland, MA

Project No.: 346-4	Sheet
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APPROXIMATE EDGE OF FEMA DELINEATED FLOODWAY ADJACENT TO THE PROJECT AREA (PURPLE LINE)

EXISTING TREE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TREE PROTECTION FENCE.

PROPOSED FISHING AREA. PERIMETER TO BE LINED WITH GRANITE CURBING (SEE DETAILS)

SILT BOOM/TURBIDITY CURTAIN (SEE DETAILS)

6' WIDE ACCESS PATH FOR KAYAK/CANOE LAUNCH (SEE DETAILS)

6' WIDE PRECAST CONCRETE PAD FOR KAYAK/CANOE LAUNCH (SEE DETAILS)

PROPOSED GRAVEL PARKING AREA WITH FIVE (5) 8' WIDE x 23' LONG PARKING SPOTS

PROPOSED 3' WIDE INFILTRATION TRENCH (SEE DETAILS)

MIN 6' WIDE ACCESS PATH (SEE DETAILS)

PROPOSED RETAINING WALL (SEE DETAILS)

PROPOSED LINEAR SEDIMENTATION AND EROSION CONTROLS (SEE DETAILS)

LINEAR SEDIMENTATION AND EROSION CONTROLS (SEE DETAILS)

AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED USING LOAM AND SPECIFIED SEED MIXES (SEE PLANTING SCHEDULE DETAIL)

APPROX. EDGE OF WATER AT TIME OF SURVEY. ELEV. = 229.0' (BASED ON GROUND SURVEY AND DRONE IMAGERY)

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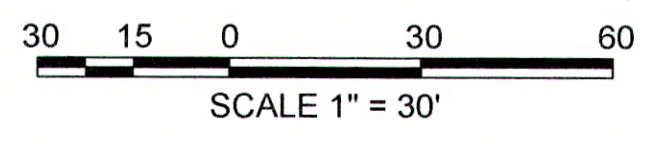
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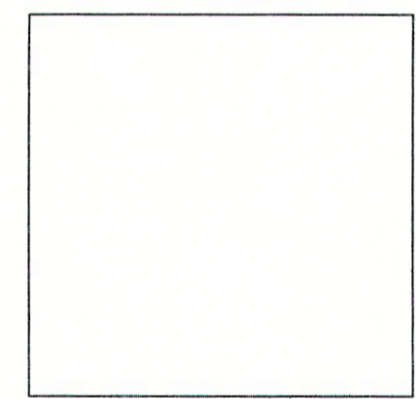
COMMONWEALTH OF MASSACHUSETTS 100 CAMBRIDGE STREET BOSTON, MA 02110

CURTIS SMITHSON
2 AIKENS ROAD
HOPKINTON, MA 01748



GENERAL NOTES

- FEMA 100-YEAR FLOODPLAIN ELEVATION = 234.0'
- *CUT WITHIN 100-YEAR FLOODPLAIN = 57 CF (AREA = 57 SF)
- *DOES NOT INCLUDE FLOODPLAIN MITIGATION AREA
- FILL WITHIN 100-YEAR FLOODPLAIN = 188 CF (AREA = 188 SF)
- LOCATION OF FLOODPLAIN MITIGATION/COMPENSATORY FLOOD STORAGE = 354 CF (AREA = 354 SF)



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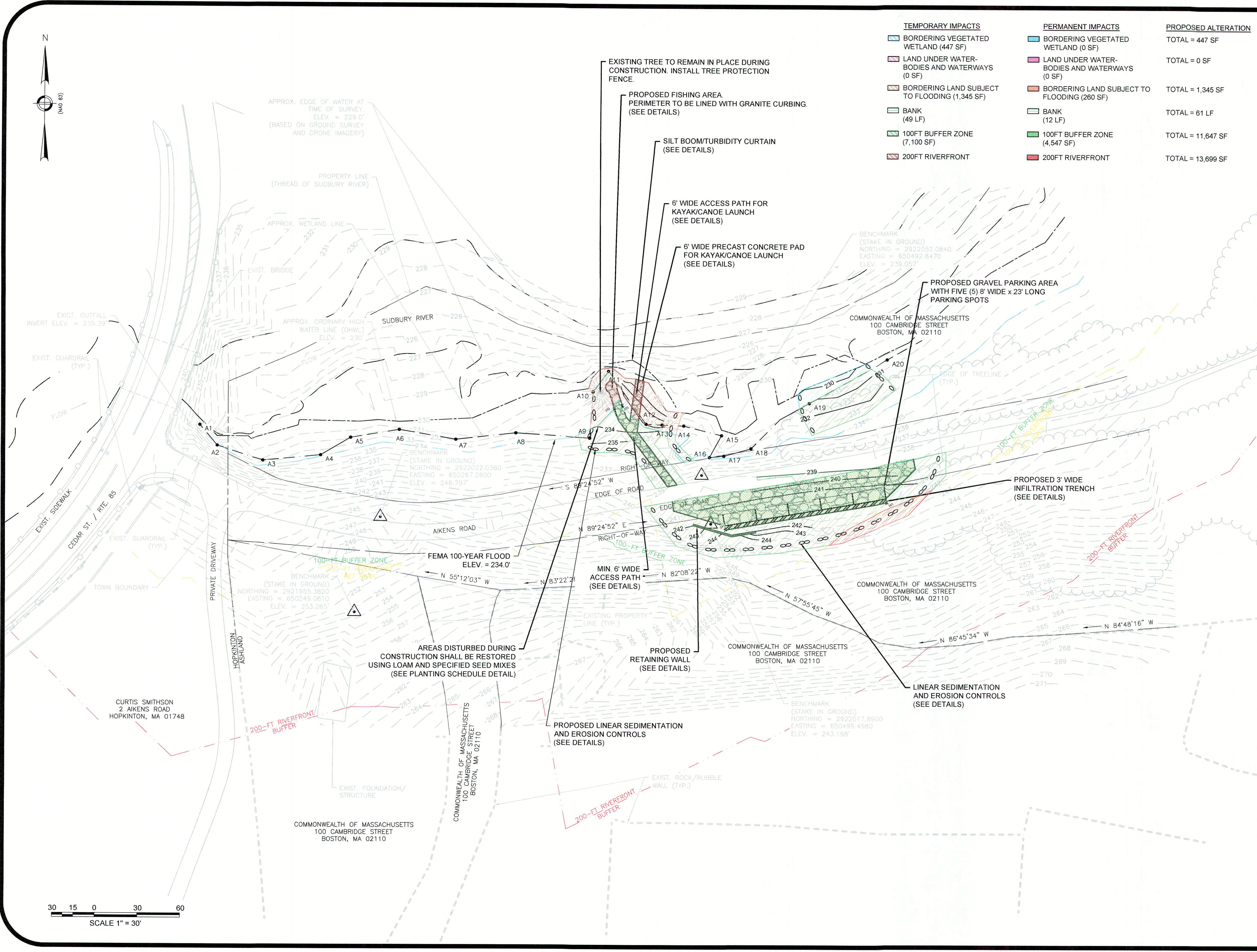
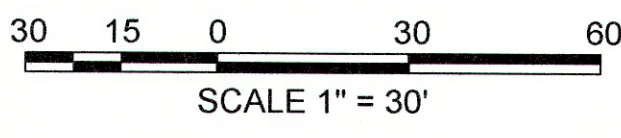
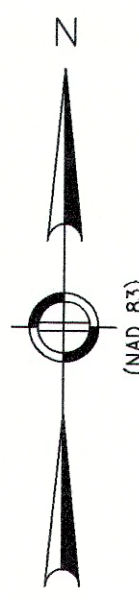
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41 MAIN ST.
BOLTON, MA 01740

100-YEAR FLOOD PLAIN CUT/FILL IMPACTS

Town of Ashland, MA

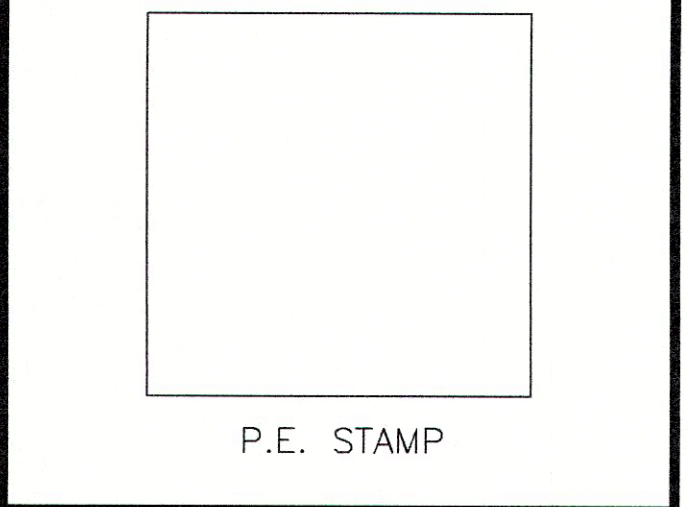
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Drawn By: NBS	
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TEMPORARY IMPACTS		PERMANENT IMPACTS		PROPOSED ALTERATION	
	BORDERING VEGETATED WETLAND (447 SF)		BORDERING VEGETATED WETLAND (0 SF)	TOTAL = 447 SF	
	LAND UNDER WATER-BODIES AND WATERWAYS (0 SF)		LAND UNDER WATER-BODIES AND WATERWAYS (0 SF)	TOTAL = 0 SF	
	BORDERING LAND SUBJECT TO FLOODING (1,345 SF)		BORDERING LAND SUBJECT TO FLOODING (260 SF)	TOTAL = 1,345 SF	
	BANK (49 LF)		BANK (12 LF)	TOTAL = 61 LF	
	100FT BUFFER ZONE (7,100 SF)		100FT BUFFER ZONE (4,547 SF)	TOTAL = 11,647 SF	
	200FT RIVERFRONT		200FT RIVERFRONT	TOTAL = 13,699 SF	

GENERAL NOTES

- FEMA 100-YEAR FLOODPLAIN ELEVATION = 234.0'
- BANK RUNS FROM FLAG A9 TO A12. BWV EVERYWHERE ELSE



No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

41 MAIN ST.
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RESOURCE AREA IMPACTS

Town of Ashland, MA

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