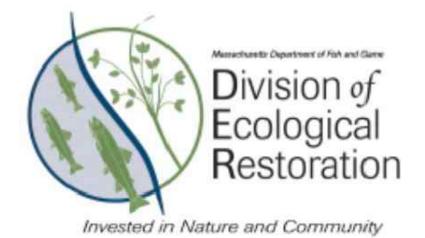
BASE MAPPING AND FIELD DATA COLLECTION OLD SWAMP RIVER AND SNUP

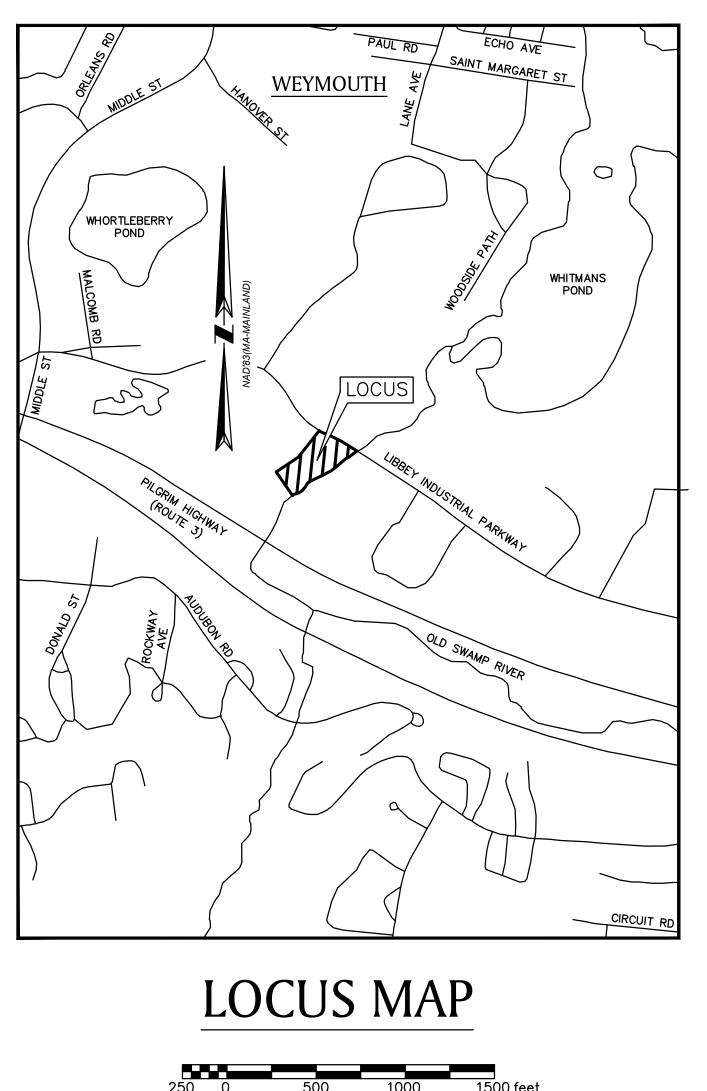


PREPARED FOR:

MASSACHUSETTS DIVISION OF ECOLOGICAL RESTORATION 251 CAUSEWAY ST., STE 400, BOSTON, MA 02114

LIBBEY INDUSTRIAL PARKWAY WEYMOUTH, MA

JUNE 30, 2022



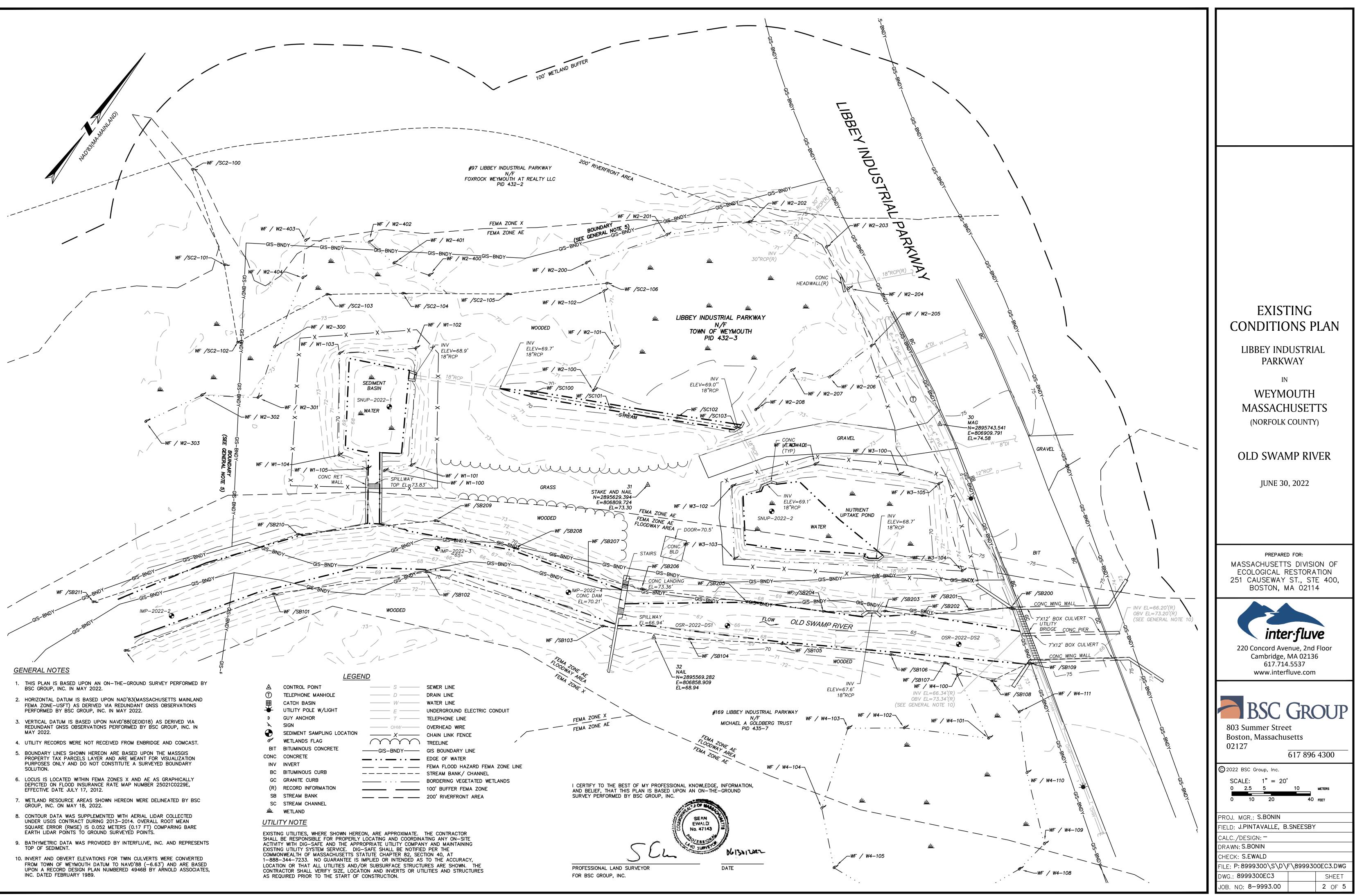
SCALE: $1'' = 500' \pm$

INDEX OF DRAWINGS

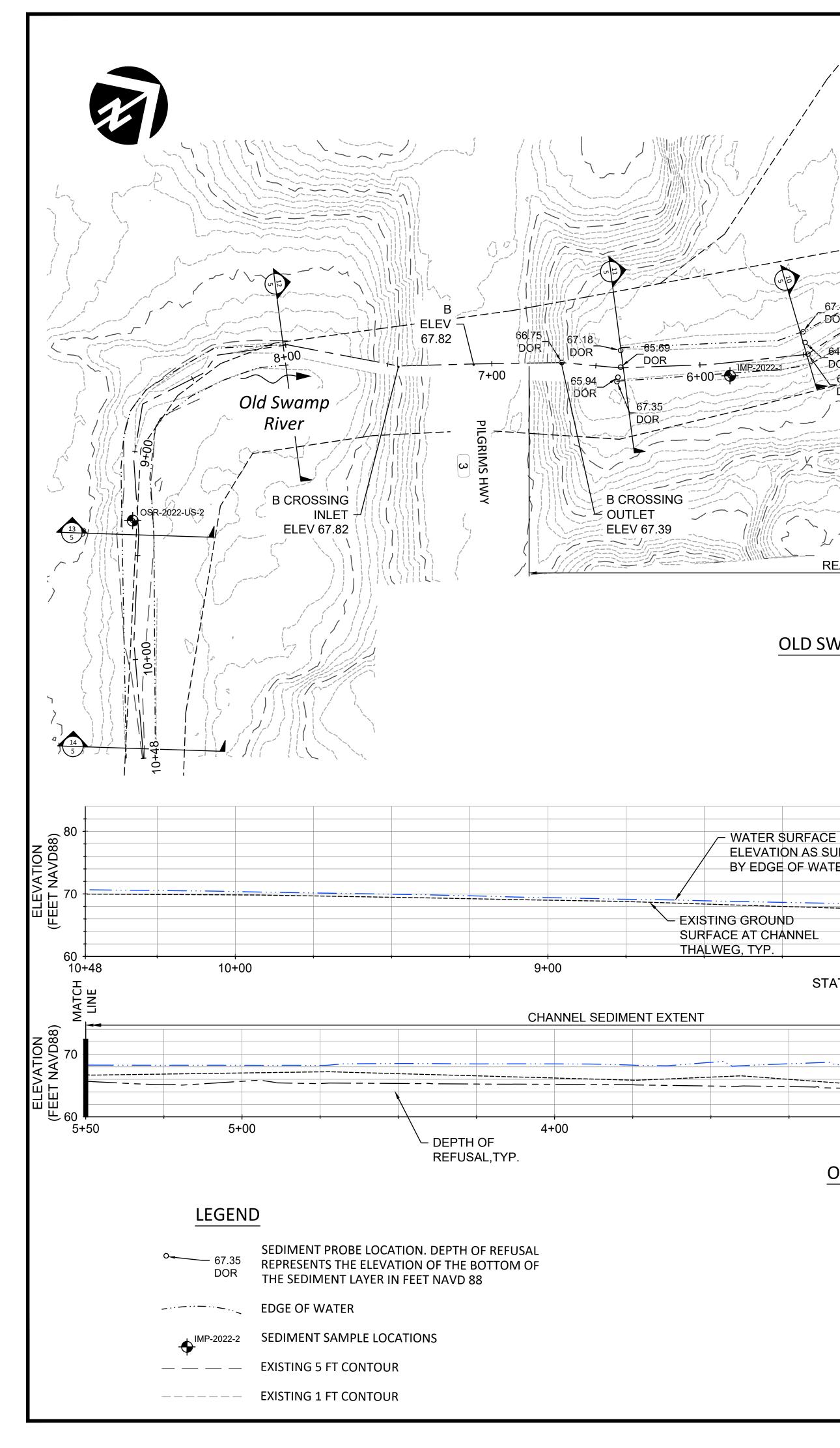
- Title Sheet
- 2
- 3
- 4-5

Existing Conditions Plan Bathymetric Plan, Long Profile and Sediment Mapping **Channel and Pond Sections**

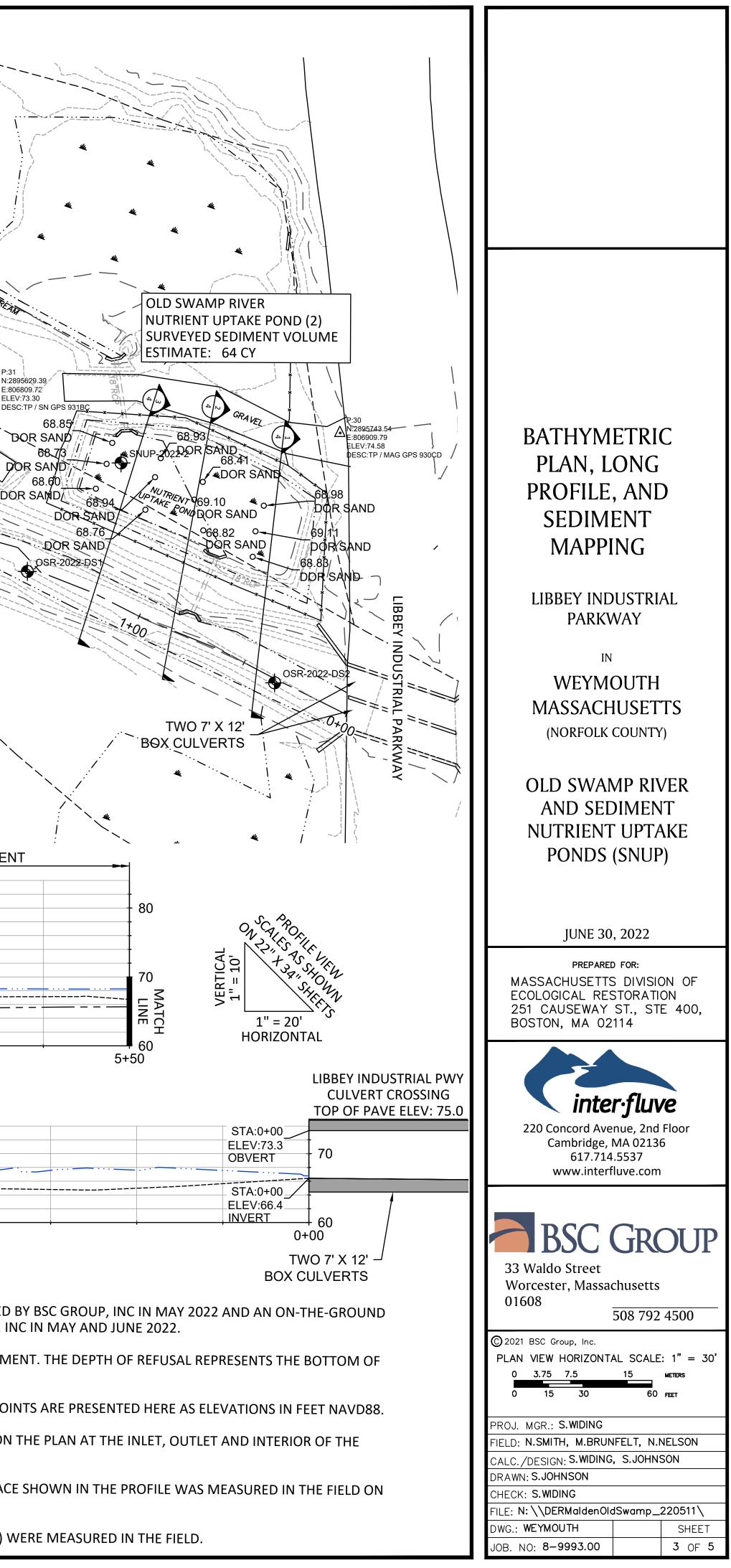


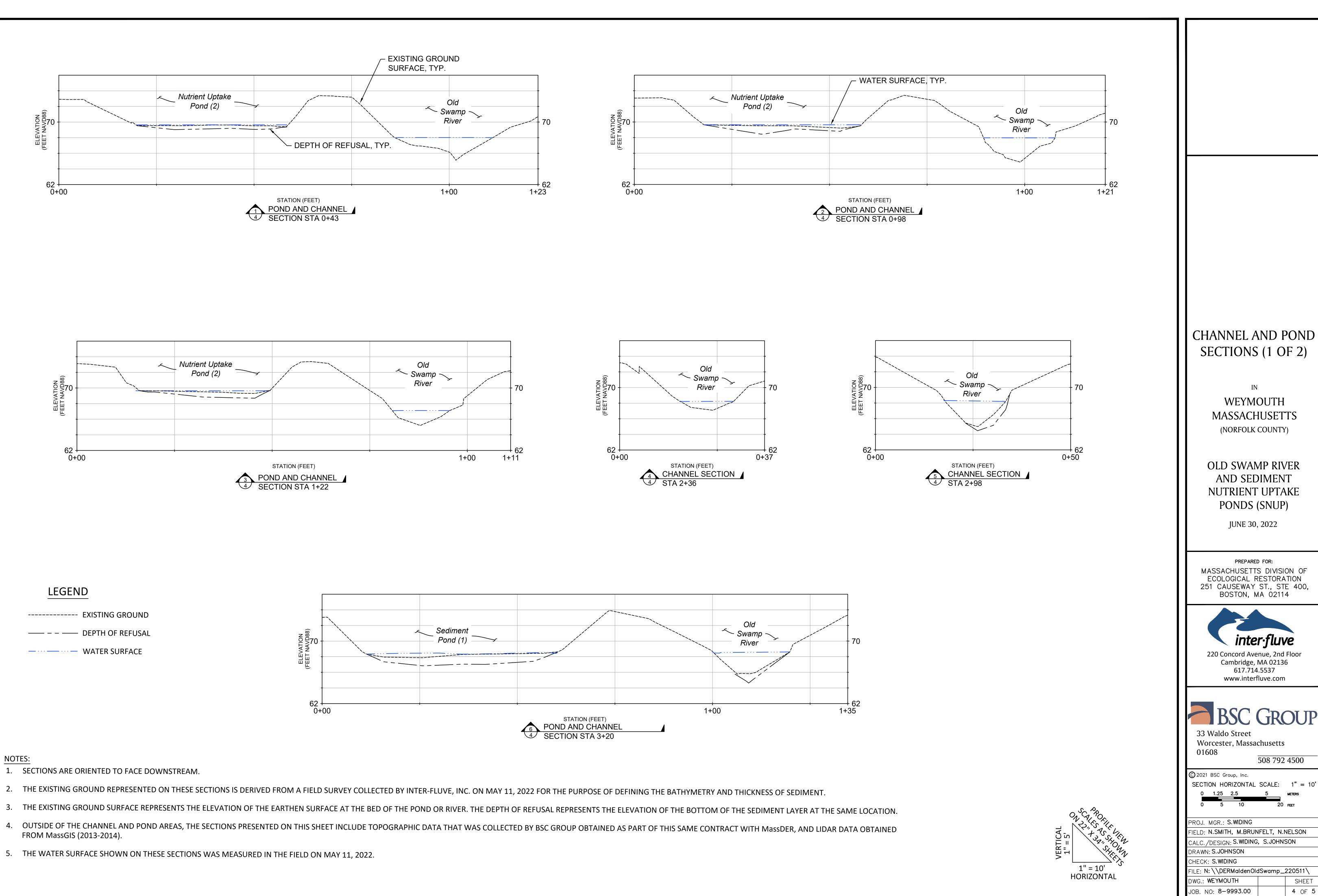


Ψ			V V	
–	UTILITY POLE W/LIGHT		— <i>E</i> — —	UNDEF
D	GUY ANCHOR		— <i>T</i> ——	TELEP
8	SIGN		— OHW———	OVERH
Ð	SEDIMENT SAMPLING LOCATION		— <i>x</i> ——	CHAIN
d	WETLANDS FLAG	\sim	$\gamma\gamma\gamma\gamma$	TREEL
BIT	BITUMINOUS CONCRETE	————GI	S-BNDY	GIS B
ONC	CONCRETE	<u> </u>	<u> </u>	EDGE
INV	INVERT			FEMA
BC	BITUMINOUS CURB			STREA
GC	GRANITE CURB			BORDE
(R)	RECORD INFORMATION			100'E
SB	STREAM BANK			200' I
SC	STREAM CHANNEL			
<u>sli</u>	WETLAND			
TILITY NOTE				
(ISTING UTILITIES, WHERE SHOWN HEREON, ARE APPROXIMATE, THE				



- OLD SWAMP RIVER UPSTREAM 66.92 SEDIMENT POND (1) DOR SURVEYED SEDIMENT VOLUME DÓR DOR ESTIMATE: 41 CY 66.87 NU#-2022-1 DOR DOR 66.43_ DOR DOR 66.72 DOR DOR F:33 N:2895569.8 E:806717.79 ELEV:74.06 ~6<u>5</u>.02 DESC:TP / SPK DOR 67-43/ IMP-2022-2 4+00 DOR 67.84 - DOR 66.22 DOR -66.23 P:31 DOR 64.91 ▲ N:2895629.39 E:806809.72 ELEV:73.30 DOR ROCK DOR-ROCH 67.16 DOR ✓ 2+00 P:32 E:806858.91 ELEV:68.94 DESC:TP/SPK EXISTING DAM WITH GATES OLD SWAMP RIVER CHANNEL SURVEYED SEDIMENT VOLUME ESTIMATE: 186 CY REACH OF SEDIMENT PROFILE SHOWN ZONE X **OLD SWAMP RIVER SEDIMENT SURVEY** PILGRIMS HWY CULVERT CROSSING TOP OF PAVE ELEV: 86.5 CHANNEL SEDIMENT EXTENT /- LIMITS OF THE IMPOUNDMENT ROUTE 3 CULVERT: ELEVATION AS SURVEYED AT NORMAL FLOW 18.5 FEET WIDE BY EDGE OF WATER - STA: 7+45-10.0 FEET HIGH _ NATURAL SUBSTRATE OBSERVED ALONG THE BOTTOM -ELEV: 67.8 FOR THE ENTIRE LENGTH OF THE STRUCTURE INVERT STA: 6+67 ELEV: 67.4 INVERT 8+00 STATION (FEET) 7+00 6+00 ----+-----3+00 2+00 1+00 STATION (FEET) OLD SWAMP RIVER PROFILE NOTES: 1. THIS PLAN IS BASED UPON AN ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC IN MAY 2022 AND AN ON-THE-GROUND BATHYMETRIC AND CHANNEL SURVEY PERFORMED BY INTER-FLUVE, INC IN MAY AND JUNE 2022. 2. THE EXISTING GROUND SURFACE REPRESENTS THE TOP OF THE SEDIMENT. THE DEPTH OF REFUSAL REPRESENTS THE BOTTOM OF THE SEDIMENT AT THE SAME LOCATION. 3. "DOR": DEPTH OF REFUSAL. THE VALUES ASSOCIATED WITH THESE POINTS ARE PRESENTED HERE AS ELEVATIONS IN FEET NAVD88. 4. "B": BED. REFERS TO THE ELEVATION OF THE STREAMBED, SHOWN ON THE PLAN AT THE INLET, OUTLET AND INTERIOR OF THE ROUTE 3 CROSSING. 5. THE EDGE OF WATER SHOWN IN PLAN VIEW AND THE WATER SURFACE SHOWN IN THE PROFILE WAS MEASURED IN THE FIELD ON MAY 11, 2022.
 - 6. THE DIMENSIONS OF THE ROUTE 3 CULVERT (MassDOT W32032 8L5) WERE MEASURED IN THE FIELD.





NOTES:

- 1. SECTIONS ARE ORIENTED TO FACE DOWNSTREAM.

- FROM MassGIS (2013-2014).

METERS

SHEET

4 OF 5

20 FEET

