PARKER RIVER RESTORATION PROJECT LARKIN ROAD DAM REMOVAL **USGS GAGE WEIR REMOVAL I-95 SCOUR COUNTERMEASURE**

TOWN OF NEWBURY, ESSEX COUNTY, MASSACHUSETTS

FINAL DRAWINGS - ISSUED FOR BID

NEWBURY CONTRACT NO. 25-07

DRAWING NO.	TITLE
G-1	COVER
G-2	GENERAL NOTES
G-3	OVERVIEW OF EXISTING PROJECT AREA
G-4	OVERVIEW OF PROPOSED PROJECT AREA
G-5	EROSION AND SEDIMENT CONTROL PLAN
G-6	GENERAL ACCESS, EROSION, & WATER CONTROL DE
G-7	GENERAL ACCESS, EROSION, & WATER CONTROL DE
CD-1	LARKIN DAM REMOVAL - EXISTING PLAN
CD-2	LARKIN DAM REMOVAL - ACCESS AND REMOVAL PLA
CD-3	LARKIN DAM REMOVAL - EXISTING & PROPOSED ELE
CD-4	LARKIN DAM REMOVAL - PROPOSED PLAN & FISHWA
CW-1	USGS GAGE WEIR REMOVAL - EXISTING PLAN, PROF
CW-2	USGS GAGE WEIR REMOVAL - PROPOSED PLAN, PRO
CB-1	I-95 BRIDGE SCOUR COUNTERMEASURE - EXISTING F
CB-2	I-95 BRIDGE SCOUR COUNTERMEASURE - WATER MA
CB-3	I-95 BRIDGE SCOUR COUNTERMEASURE - PROPOSEI

FUNDING PARTNERS

- TOWN OF NEWBURY
- MA DEPT. OF FISH & GAME, DIV. OF ECOLOGICAL RESTORATION
- US FISH & WILDLIFE SERVICE
- NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION RESTORATION CENTER

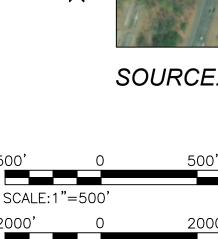
DIG-SAFE

CONTRACTOR SHALL CALL DIG-SAFE CALL CENTER AT 811 OR 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO STARTING ANY EXCAVATION. SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS ARE NOT TO BE INCLUDED IN THE REQUIRED 72 HOUR NOTICE.

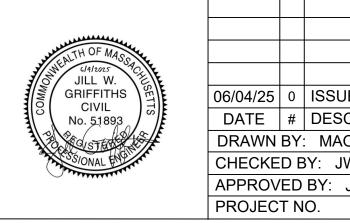
ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER WITHOUT DELAY. ALL DESIGNS AND DRAWINGS ARE INSTRUMENTS OF SERVICE OF GOMEZ AND SULLIVAN ENGINEERS, D.P.C. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY GOMEZ AND SULLIVAN, D.P.C. IS DONE AT THE LIABILITY OF THOSE RESPONSIBLE FOR SUCH REPRODUCTION OF USE.

DETAILS SHEET 1 OF 2 DETAILS SHEET 2 OF 2

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USGS	LACKMAN 	SCALE: 1	" = 2000' - PROJECT SITE
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<i>: ESRI</i> , ₁₀₀₀ ,		PARI	1" = 500' KER RIVER TION PROJECT
0' 4000'		(COVER
ED FOR BID MAO CRIPTIONS BY O VG IWG	APD 12	own of Newbury 2 Kent Way field, MA 01922	Gomez and Sullivan Engineers, D.P.C 41 Liberty Hill Road PO Box 2179 Henniker, NH 03242
02430 DATE: 06/04/20	25 S	SCALE: AS NOTED	DRAWING: G-1

- HORIZONTAL DATUM IS NORTH AMERICAN DATUM (NAD) 1983, MASSACHUSETTS STATE 1. PLANE COORDINATE SYSTEM, MAINLAND ZONE. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 FEET.
- CONTOUR INTERVAL SHOWN ON PLANS IS 1 FOOT. 2.
- BATHYMETRIC DATA WITHIN THE IMPOUNDMENT COLLECTED BY GOMEZ AND SULLIVAN 3. ENGINEERS, DPC ON APRIL 28, 2022 AND CR ENVIRONMENTAL, INC NOVEMBER 17, 2022.
- TOPOGRAPHIC SURVEY IN THE VICINITY OF LARKIN ROAD DAM CONDUCTED BY JE 4. BELANGER LAND SURVEYING PLLC ON JULY 29, 2009. TOPOGRAPHIC SURVEY IN THE VICINITY OF THE USGS GAGE WEIR AND SUPPLEMENTAL SURVEY IN THE VICINITY OF LARKIN ROAD DAM CONDUCTED BY GOMEZ AND SULLIVAN ENGINEERS, DPC ON NOVEMBER 18, 2022.
- 5. ALL OTHER TOPOGRAPHY OUTSIDE SURVEY AREAS DERIVED FROM LIDAR DATA WITH A VERTICAL ACCURACY OF 0.56 FEET COLLECTED IN WINTER/SPRING 2011 AND OBTAINED FROM MASSGIS.
- WETLAND BOUNDARIES DELINEATED BY CR ENVIRONMENTAL, INC ON AUGUST 11, 2009 6. (ENTIRE PROJECT AREA) AND NOVEMBER 17, 2022 (IN THE VICINITY OF LARKIN ROAD DAM AND USGS GAGE WEIR). WETLAND BOUNDARIES BEYOND THE PROJECT AREA DERIVED FROM 2005 MASSACHUSETTS DEPT. OF ENVIRONMENTAL PROTECTION (MASSDEP) WETLANDS DATA AND/OR AERIAL IMAGERY.
- PROPERTY BOUNDARIES OBTAINED FROM MASSGIS. 7.
- BORDERING LAND SUBJECT TO FLOODING (BLSF) DEPICTED ON THE PLANS IS BASED ON THE 100-YEAR FLOOD INUNDATION MAPPING DEVELOPED BY GOMEZ AND SULLIVAN ENGINEERS, DPC FOR EXISTING AND PROPOSED CONDITIONS. THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR REGULATORY FLOODPLAIN (ZONE AE) IS ALSO SHOWN FOR REFERENCE BUT IS ASSUMED TO BE LESS ACCURATE THAN THE MODELED BLSF.

GENERAL NOTES

- CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION. CONTRACTOR SHALL NOTIFY DIG SAFE MASSACHUSETTS AT 811 OR 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION. SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS ARE NOT TO BE INCLUDED IN THE REQUIRED 72 HOUR NOTICE.
- CONTRACTOR SHALL MAINTAIN CONTROL POINTS DURING CONSTRUCTION, INCLUDING 2. BENCHMARKS AND ELEVATIONS AT CRITICAL AREAS. SITE LAYOUT SURVEY REQUIRED FOR CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR AND PERFORMED BY A MASSACHUSETTS' REGISTERED PROFESSIONAL LAND SURVEYOR. ALL GRADE STAKES SET BY SURVEYOR SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL INSPECTION OF THE ITEM HAS BEEN COMPLETED BY ENGINEER.
- EXCESSIVE IDLING DURING THE CONSTRUCTION PERIOD IS PROHIBITED. SIGNS SHALL BE POSTED AT THE SITE LIMITING IDLING TO 5 MINUTES OR LESS. PERIODIC INSPECTIONS SHALL BE CONDUCTED BY SITE SUPERVISORS TO ENSURE COMPLIANCE. STAGING AREAS SHALL BE LOCATED TO MINIMIZE EMISSION IMPACTS TO ABUTTING PROPERTIES.
- ACCESS AGREEMENTS HAVE BEEN EXECUTED BETWEEN THE TOWN OF NEWBURY AND 12 KENT WAY, LLC FOR WORK ON PARCEL U14-0-2A AND BETWEEN THE TOWN OF NEWBURY AND JOANNE C. PURINTON FOR WORK ON PARCEL U14-0-1.

PERMIT CONDITIONS

- CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS CONTAINED IN RELEVANT PERMITS. INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING.
- IN ACCORDANCE WITH THE PROJECT ARCHEOLOGICAL SITE AVOIDANCE AND PROTECTION PLAN (ASAPP), THE PROJECT ARCHAEOLOGIST, THE PUBLIC ARCHAEOLOGICAL LABORATORY, INC. (PAL), WILL INSPECT AND MONITOR SENSITIVE ARCHEOLOGICAL AREAS DURING CONSTRUCTION TO ENSURE THAT THE AVOIDANCE AND PROTECTION CONTROLS ARE BEING PROPERLY INSTALLED, MAINTAINED, AND OBSERVED BY THE CONTRACTOR. ASAPP CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, 1) INSTALLATION OF HIGH-VISIBILITY PROTECTIVE FENCING AND SIGNAGE ALONG EDGES OF ALL TEMPORARY ACCESS AND STAGING AREAS, 2) NO GROUND DISTURBANCE IN SENSITIVE AREAS BEYOND FENCE LIMITS, 3) ALL TEMPORARY ACCESS, STAGING, AND DEWATERING AREAS WITHIN SENSITIVE AREAS SHALL BE PROTECTED FROM GROUND DISTURBANCE WITH GEOTEXTILE FABRIC AND A 12" MIN. GRAVEL SUBBASE, AND 4) NO STONES SHALL BE DISTURBED FROM THE "STONE WALL ENCLOSURE" AT THE USGS GAGE SITE SHOWN ON THE PLANS.
- CUTTING OF TREES NECESSARY FOR ACCESS HAS BEEN COMPLETED BY THE TOWN. CONTRACTOR IS RESPONSIBLE FOR CLEARING OF FELLED TREES. NO TREE CUTTING SHALL OCCUR DURING THE TIME-OF-YEAR (TOY) RESTRICTION FOR NORTHERN LONG-EARED BATS (NLEB) WITHOUT CONSULTATION WITH AND APPROVAL FROM THE US FISH AND WILDLIFE SERVICE (USFWS). THE NLEB TOY IS ASSUMED TO BE APRIL 1 THROUGH OCTOBER 1 IN A GIVEN YEAR, BUT MUST BE CONFIRMED WITH USFWS FOR ANY PROPOSED CUTTING. NO STUMP REMOVAL OR GRUBBING OF ROOT SYSTEMS BELOW GROUND SURFACE WILL BE PERMITTED WITHIN SENSITIVE ARCHEOLOGICAL AREAS DESIGNATED IN THE ASAPP.
- IN ACCORDANCE WITH THE FISHWAY CONSTRUCTION PERMIT (TO BE FINALIZED IN COORDINATION WITH CONTRACTOR), IN-WATER AND SILT-PRODUCING WORK SHALL NOT BE CONDUCTED DURING THE TOY RESTRICTION OF APRIL 1 THROUGH JUNE 15 OF ANY GIVEN YEAR. THE MASSACHUSETTS DEPARTMENT OF FISH AND GAME, DIVISION OF MARINE FISHERIES (DMF) MUST APPROVE THE WATER CONTROL PLAN AND INSPECT ALL INSTALLED WATER CONTROL MEASURES.
- THE USGS WILL REMOVE STREAM GAGING EQUIPMENT FROM THE RIVER AT THE GAGING STATION PRIOR TO CONSTRUCTION AND WILL RESET AND RECALIBRATE THE EQUIPMENT FOLLOWING CONSTRUCTION. THE USGS SHALL APPROVE THE WATER CONTROL PLAN FOR

THE WEIR SITE. IT IS DESIRED TO HAVE THE GAGING EQUIPMENT REINSTALLED WITHIN 2 WEEKS OF ITS REMOVAL: OTHERWISE, A TEMPORARY GAGE MAY NEED TO BE INSTALLED BY USGS.

CONSTRUCTION WASTE MANAGEMENT

- 2. CONTRACTOR.
- 3. BASINS SHALL BE MAINTAINED FREE FLOWING.
- 4. ALL COMBUSTIBLE WASTE MATERIALS SHALL BE PLACED IN COVERED METAL WASTE DISPOSAL FACILITY.
- 7. REUSE AND DISPOSAL.

POLLUTION CONTROL

5.

5.

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- 2. MATERIALS FOR USE IN CASE OF CHEMICAL OR OIL SPILLS.
- .3
- OF THE SPILLED MATERIAL AND TO CLEAN IT UP.
- DEPLOYED BMPS.

CARE AND DIVERSION OF WATER

- ENVIRONMENTAL PERMIT REQUIREMENTS AND CONDITIONS.
- 2. WORK OR EQUIPMENT BY HIGH WATER OR STORMS.
- 4 SECOND (CFS) RESPECTIVELY.
- 5. 28 CFS IN AUG. TO 124 CFS. IN DEC.

TEMPORARY ACCESS ROUTE STABILIZATION

- 2. AREAS.
- 3 TEMPORARY USE BY CONSTRUCTION TRAFFIC.

1. SITE SHALL BE KEPT WELL ORGANIZED, SIGNED, AND FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH AT ALL TIMES. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON A CONTINUOUS BASIS FROM WORK SITE TO WORK SITE. DISPOSAL OF ANY WASTE MATERIALS ON THE CONSTRUCTION SITE IS PROHIBITED.

SANITARY, WASTE DISPOSAL, AND EMPLOYEE FACILITIES SHALL BE PROVIDED BY

ALL WATER RESOURCES (E.G., GROUND AND SURFACE WATERS), INCLUDING ALL DRAINS AND CATCH BASINS, SHALL BE PROTECTED FROM LEACHING AND/OR RUN-OFF OF CHEMICAL POLLUTANTS, SOLID WASTES, AND CONSTRUCTION SITE DEBRIS. ALL CATCH

CONTAINERS AND PROMPTLY DISPOSED OF IN AN APPROVED MANNER AT AN APPROVED

STORAGE AND/OR USE OF CHEMICALS, FUELS, OILS, GREASES, BITUMINOUS MATERIALS, SOLIDS, WASTE WASHINGS, AND CEMENT SHALL BE HANDLED APPROPRIATELY AS TO PREVENT LEACHING OR SURFACE RUNOFF INTO PUBLIC WATERS OR DRAINS. ALL APPROVED STORAGE AREAS FOR THESE MATERIALS MUST BE DIKED.

ALL ROADWAYS SHALL BE MAINTAINED FREE OF DEBRIS. STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED TO CAPTURE DEBRIS FROM WHEELS OF CONSTRUCTION VEHICLES. VEHICLES SHALL BE INSPECTED AT ENTRANCES BEFORE TURNING ONTO THE ROADWAY AND EXCESS DEBRIS SHALL BE REMOVED.

ALL EXCESS DREDGED MATERIALS SHALL BE REMOVED FROM THE SITE AS SOON AS POSSIBLE AND IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS FOR

1. A CHEMICAL AND OIL SPILL PREVENTION AND CLEANUP PLAN SHALL BE PROVIDED BY THE CONTRACTOR AND IMPLEMENTED DURING THE COURSE OF WORK.

CONTRACTOR SHALL MAINTAIN, ON SITE, SUFFICIENT QUANTITIES OF ABSORBENT

ALL EQUIPMENT SHALL BE INSPECTED PRIOR TO ENTERING WETLAND RESOURCE AREAS. ANY WORN HYDRAULIC LINES SHALL BE REPLACED PRIOR TO COMMENCING WORK.

IN THE EVENT OF ANY ACTUAL OR SUSPECTED SPILL OF ANY CHEMICAL, PETROLEUM PRODUCT, OR WASTE WATER, CONTRACTOR SHALL IMMEDIATELY NOTIFY RELEVANT AGENCIES AND PROMPTLY TAKE ALL MEASURES NECESSARY TO CONTROL THE SPREAD

AN INCIDENT NOTIFICATION PROCEDURE WILL BE DEVELOPED BY THE ENGINEER AND FILED WITH MASSDEP IN ACCORDANCE WITH THE 401 WATER QUALITY CERTIFICATION. CONTRACTOR SHALL COMPLY WITH THE NOTIFICATION PROCEDURE SPECIFIED THEREIN FOR ANY OBSERVED DEAD OR DISTRESSED FISH OR OTHER ORGANISMS, OILY SHEEN ON WATER SURFACES, SEDIMENT SPILLS, OR NON-PERMITTED TURBIDITY PLUMES BEYOND

CONTRACTOR SHALL PREPARE A WATER CONTROL PLAN STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN MASSACHUSETTS TO BE APPROVED BY ENGINEER, MADMF, AND USGS, INCLUDING 1) PROPOSED COFFERDAM/TEMPORARY BYPASS PLAN, DETAILS, AND CALCULATIONS 2) WATER CONTROL CONTINGENCY PLAN, AND 3) DEWATERING/SEDIMENT CONTROL METHODS. WATER CONTROL PLAN SHALL CONFORM TO ALL APPLICABLE

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO

ANY WATER PUMPED FROM THE EXCAVATION MUST FLOW THROUGH A SEDIMENT FILTER BAG (OR APPROVED EQUAL) PRIOR TO RELEASE INTO ANY WATERBODY.

BASED ON A FLOOD FREQUENCY ANALYSIS OF ANNUAL PEAK FLOW AT USGS GAGE NO, 01101000 (PARKER RIVER AT BAYFIELD) THROUGH 2020 AND REGIONAL REGRESSION EQUATIONS, CONSERVATIVE ESTIMATES FOR THE 2-, 10-, 50-, AND 100-YEAR FLOODS (50%, 10%, 2%, & 1% AEP) ARE 307, 639, 1,010 AND 1,190 CUBIC FEET PER

BASED ON A DURATION ANALYSIS OF AVG. DAILY FLOWS AT USGS GAGE NO. 01101000 THROUGH JUNE 2023, THE ANNUAL MEDIAN FLOW IS APPROX. 24 CFS AND THE 5% EXCEEDANCE FLOW FOR THE MONTHS OF JUL. THROUGH DEC. RANGES FROM APPROX.

1. DEFINITION: THE STABILIZATION OF TEMPORARY CONSTRUCTION ACCESS ROUTES, ON-SITE VEHICLE TRANSPORTATION ROUTES, AND CONSTRUCTION PARKING AREAS.

PURPOSE: TO CONTROL EROSION ON TEMPORARY CONSTRUCTION ROUTES AND PARKING

CONDITION WHERE PRACTICE APPLIES: ALL TRAFFIC ROUTES AND PARKING AREAS FOR

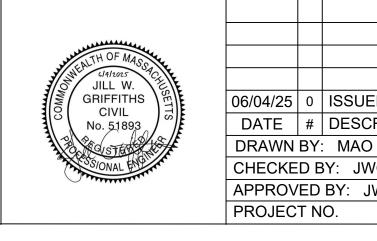
DESIGN CRITERIA: CONSTRUCTION ROADS SHOULD BE LOCATED TO REDUCE EROSION POTENTIAL, MINIMIZE IMPACT ON EXISTING SITE RESOURCES, AND MAINTAIN OPERATIONS IN A SAFE MANNER. HIGHLY EROSIVE SOILS, WET OR ROCKY AREAS, AND STEEP

SLOPES SHOULD BE AVOIDED. ROADS SHOULD BE ROUTED WHERE SEASONAL WATER TABLES ARE DEEPER THAN 18 INCHES. SURFACE RUNOFF AND CONTROL SHOULD BE IN ACCORDANCE WITH OTHER STANDARDS.

- 5. ROAD GRADE: A MAXIMUM GRADE OF 12% IS RECOMMENDED, ALTHOUGH GRADES UP TO 20% ARE ACCEPTABLE FOR SHORT DISTANCES.
- ROAD WIDTH: 12 FT (9 FT MINIMUM) FOR ONE-WAY TRAFFIC, OR 24 FT MINIMUM FOR 6. TWO-WAY TRAFFIC.
- SIDE SLOPE OF ROAD EMBANKMENT: 2:1 OR FLATTER. 7.
- 8. COMPOSITION: USE AN 12-INCH LAYER OF STATE DOT APPROVED GRAVEL SUB-BASE OR EQUIVALENT, PLACED ON A GEOTEXTILE FABRIC.
- MAINTENANCE: ACCESS ROUTES AND PARKING AREAS SHALL BE INSPECTED 9. PERIODICALLY FOR CONDITION OF SURFACE AND TOPDRESSED WITH NEW GRAVEL AS NEEDED.
- 10. RESTORATION: UPON COMPLETION OF THE WORK, ALL TEMPORARY MATERIALS SHALL BE REMOVED AND THE SITE SHALL BE RESTORED TO PRE-PROJECT CONDITIONS EXCEPT AS INDICATED ON THE PLANS.

SOIL EROSION AND SEDIMENTATION CONTROL

- 1. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH MASSDEP EROSION AND SEDIMENTATION CONTROL GUIDELINES AND APPLICABLE NPDES STANDARDS.
- 2. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY SOIL OR STREAM DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 3. PROTECT EXISTING TREES FROM DAMAGE FROM CONSTRUCTION OPERATIONS. PROTECT TREE ROOT SYSTEMS FROM DAMAGE, FLOODING, AND EROSION.
- PROTECT POORLY DRAINED SOILS FROM CONSTRUCTION OPERATIONS. INSTALL 4. TEMPORARY ACCESS MATTING ON POORLY DRAINED SOILS WHEN DEVIATING FROM THE TEMPORARY ACCESS ROAD.
- ALL DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS, 5. AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING WITH A NATIVE SEED MIXTURE. MULCH, WATER AND ANCHOR AS NECESSARY TO ESTABLISH GRASS AND PREVENT LOSS TO WIND OR EROSION. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH SMALL GRAIN STRAW AT A RATE OF TWO (2) TONS PER ACRE IN ACCORDANCE WITH STATE STANDARDS.
- PERMANENT VEGETATION SHALL BE SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
- 7. ALL CRITICAL AREAS SUBJECT TO EROSION SHALL RECEIVE A TEMPORARY SEEDING WITH AN APPROVED NATIVE SEED MIXTURE IN COMBINATION WITH STRAW MULCH, AT A RATE OF TWO (2) TONS PER ACRE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE SHALL BE 8. SPRINKLED WITH WATER UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED, OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- 9 ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
- STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD SHALL BE PLACED 10. WITHIN THE LIMIT OF DISTURBANCE. ALL SOIL STOCKPILES SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH NOTE #5 AND PROTECTED BY COMPOST FILTER SOCKS ON DOWNHILL SIDES.
- 11. TOPSOIL USED FOR PERMANENT SITE STABILIZATION SHALL BE FRIABLE AND LOAMY. APPLY 6 INCHES OF TOP SOIL IN ALL AREAS THAT REQUIRE PERMANENT STABILIZATION AFTER CONSTRUCTION IS COMPLETE. IF TOPSOIL IS LEFT EXPOSED WITH A LOOSE, ROUGH, OR IRREGULAR SURFACE AFTER CONSTRUCTION FILL OPERATIONS THE TOPSOIL SHALL BE SMOOTHED WITH BLADE AND ROLL.
- THE CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE. 12. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND THAT HAVE NOT BEEN FINALLY STABILIZED, STABILIZATION PRACTICES, STRUCTURAL PRACTICES, AND OTHER CONTROLS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER THE END OF ANY STORM THAT PRODUCES AT LEAST 0.5 INCHES OF RAINFALL AT THE SITE. WHERE SITES HAVE BEEN FINALLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH UNTIL FINAL COMPLETION. CRITICAL AREAS AND AREAS WHERE VEHICLES EXIT THE SITE SHALL BE INSPECTED DAILY.



CONSTRUCTION SEQUENCE

- CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE PLAN TO BE APPROVED BY OWNER AND ENGINEER. THE FOLLOWING GENERAL SEQUENCE SHALL BE ADAPTED FOR THE SITE-SPECIFIC REQUIREMENTS.
- SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE AND LIMIT OF EROSION CONTROLS. INSTALL EROSION CONTROLS AND CONTAINMENT MEASURES AS INDICATED IN THE PLANS.
- FLAG BOUNDARY OF BORDERING VEGETATED WETLAND IN THE VICINITY OF THE 3. PROPOSED WORK AREA.
- 4. FLAG LIMITS OF CLEARING. TREES TO BE REMOVED OR PROTECTED TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO ANY WORK. CLEAR AND GRUB ALONG APPROVED ACCESS ROUTES AS NEEDED.
- 5. INSTALL TEMPORARY EROSION AND POLLUTION CONTROLS, STAGING AREA, AND TEMPORARY ACCESS RAMPS/ROUTES AS NEEDED. UTILIZE SWAMP MATS (OR APPROVED EQUAL) TO MINIMIZE DISTURBANCE TO WETLAND AREAS.
- INSTALL DEWATERING AND/OR WATER DIVERSION MEASURES AS NECESSARY IN 6. ACCORDANCE WITH THE APPROVED WATER CONTROL PLAN.
- COMMENCE SITE WORK (SEE DETAILED SEQUENCE ON PROPOSED ACCESS PLAN FOR 7. EACH SITE).
- STOCKPILE ANY EXCESS DREDGED SEDIMENT FOR DEWATERING WITH COMPOST FILTER SOCKS OR APPROVED EQUAL INSTALLED ON DOWNSLOPE SIDES. DEWATERED SEDIMENT TO BE TRANSPORTED OFFSITE AND FOR LAWFUL REUSE OR DISPOSAL.
- REMOVE TEMPORARY DEWATERING/WATER DIVERSION MEASURES
- 10. REMOVE ANY TEMPORARY ACCESS ROUTES. RESTORE ACCESS AND STAGING AREAS TO FORMER CONDITIONS.

REMOVE EROSION AND POLLUTION CONTROL MEASURES ONLY AFTER ALL AREAS ARE 12. STABILIZED WITH VEGETATIVE COVER TO THE SATISFACTION OF ENGINEER. WETLAND RESOURCE AREA IMPACTS

AREA (SF)			
TEMP. DISTURBANCE	PERMANENT CHANGE		
770	-600		
17,000	-67,000		
800	67,000		
700	30,000		
20,000	0		
20,000	-37,000		
	TEMP. DISTURBANCE 770 17,000 800 700 20,000		

DREDGE/FILL QUANTITIES								
CATEGORY	DESCRIPTION	VOLUME (CY) OR DIMENSIONS AS SPECIFIED						
		LARKIN DAM	I-95 BRIDGE	USGS WEIR	ΤΟΤΑΙ			
	PASSIVE SEDIMENT RELEASE	1,000	-	-	1,000			
DREDGE VOLUME	ACTIVE SEDIMENT DREDGING	260	700	340	1,300			
	CONCRETE REMOVAL	62	-	13	75			
	STONE MASONRY REMOVAL	3	-	22	25			
	TOTAL DREDGE	1,325	700	375	2,400			
FILL VOLUME	RIPRAP+FILTER STONE	-	1,300	170	1,470			
			1 200		4 470			

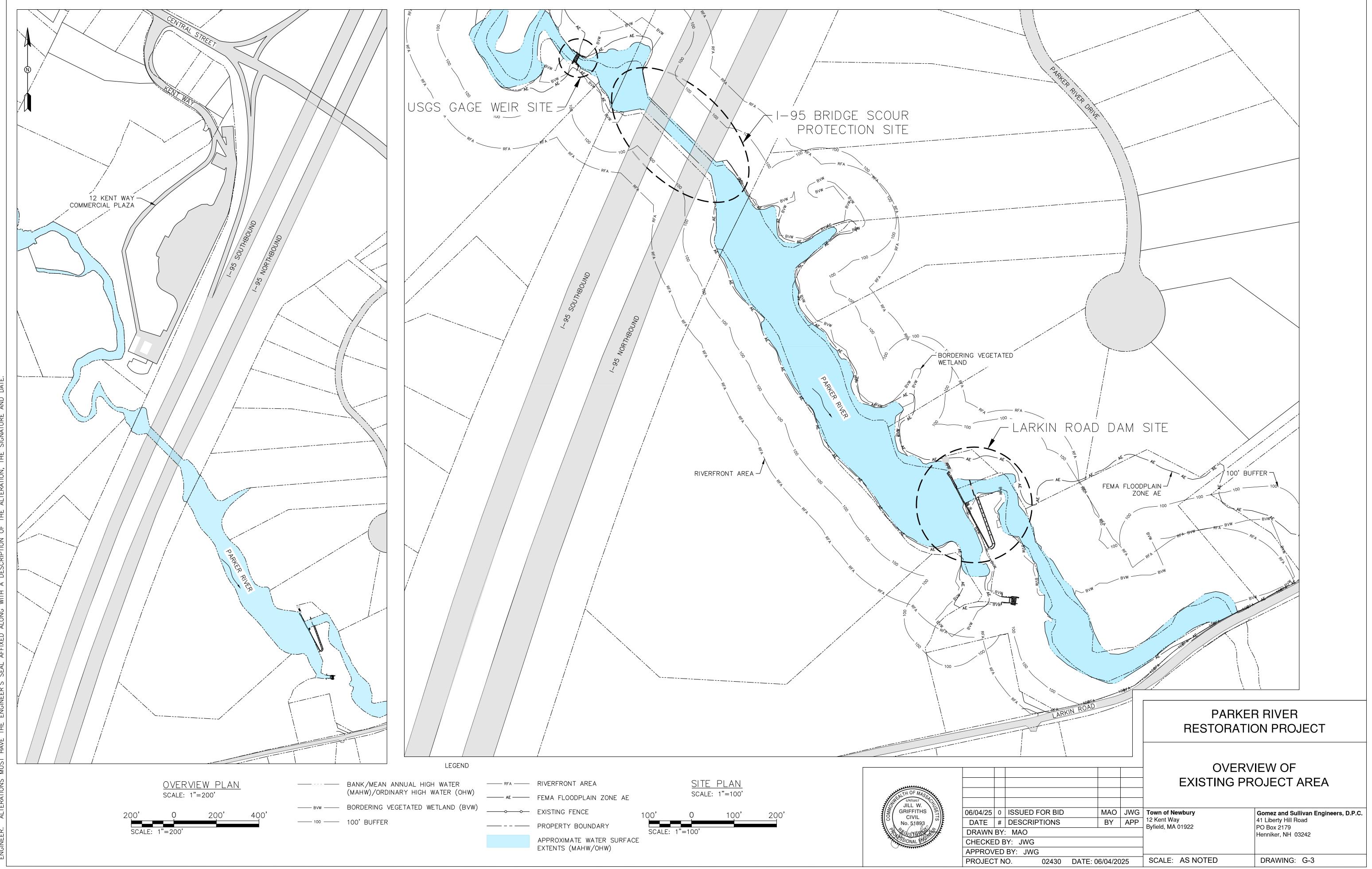
	TOTAL DREDGE	1,525	700	5/5	2,400
FILL VOLUME	RIPRAP+FILTER STONE	-	1,300	170	1,470
	TOTAL FILL	-	1,300	170	1,470
NET DREDGE/FILL VOLUME	NEGATIVE = NET DREDGE	-1,350	600	-205	-930
	LENGTH (FT)	170	260	50	480
	MAX WIDTH (FT)*	70	35	25	70
DREDGE EXTENTS	MAX DEPTH (FT)*	7	4	5	7
	AREA (SF)	4,970	11,580	2,510	19,060
	LENGTH (FT)	-	260	50	310
FILL EXTENTS	MAX WIDTH (FT)*	-	35	25	35
	MAX DEPTH (FT)*	-	4	4	4
	AREA (SF)	-	11,580	2,510	14,090

*WIDTH AND DEPTH REPORTED AS MAXIMUM VALUES RATHER THAN TOTALS FOR PROJECT TOTAL.

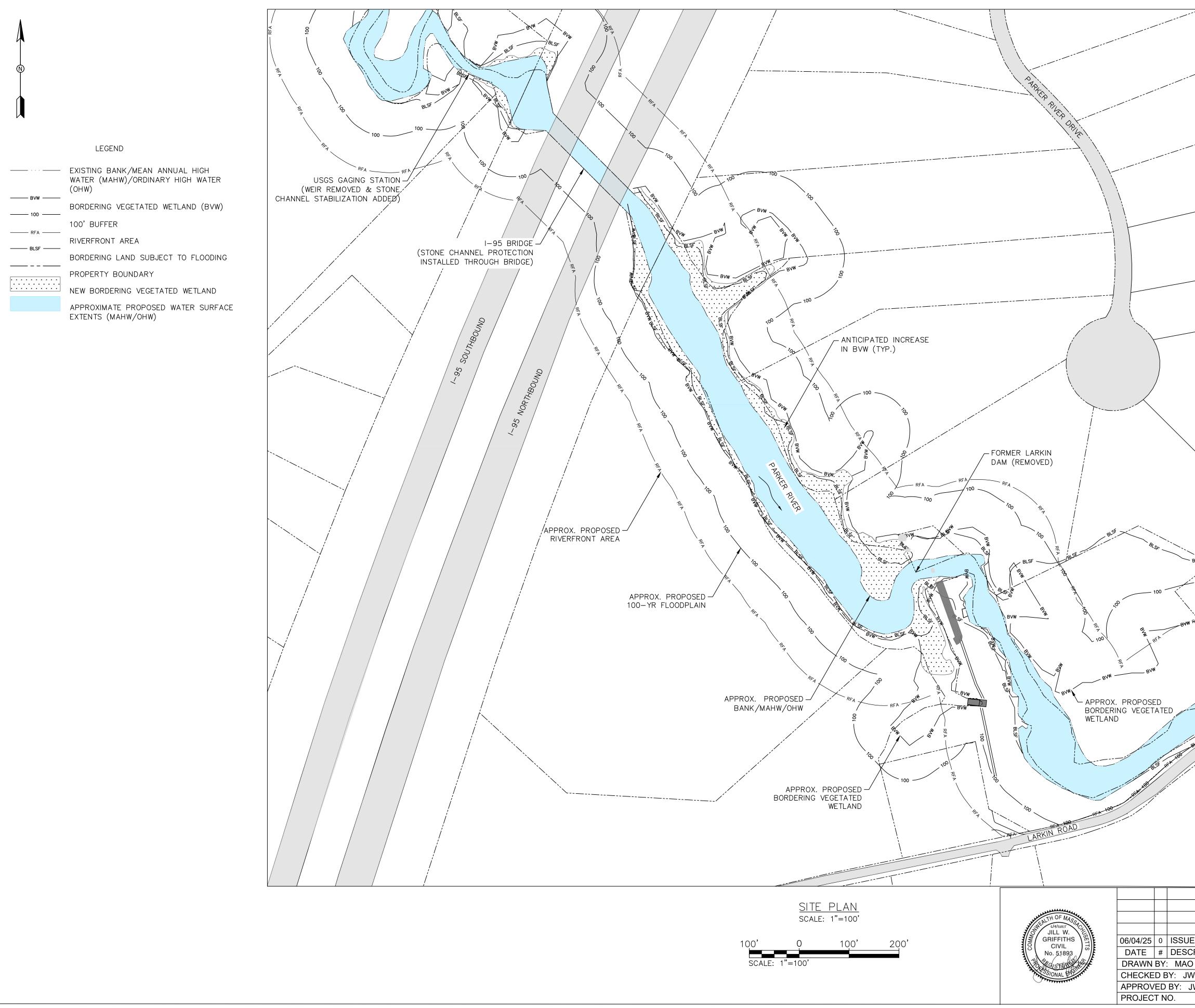
PARKER RIVER **RESTORATION PROJECT**

				GENERAL NOTES		
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UED FOR BID	M	ΛΑΟ	JWG	Town of Newbury	Gomez and Sullivan Engineers, D.P.C.	
SCRIPTIONS		BY	APP	12 Kent Way Byfield, MA 01922	41 Liberty Hill Road	
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JWG						
JWG						
02430	DATE: 06/0	04/20	25	SCALE: NONE	DRAWING: G-2	

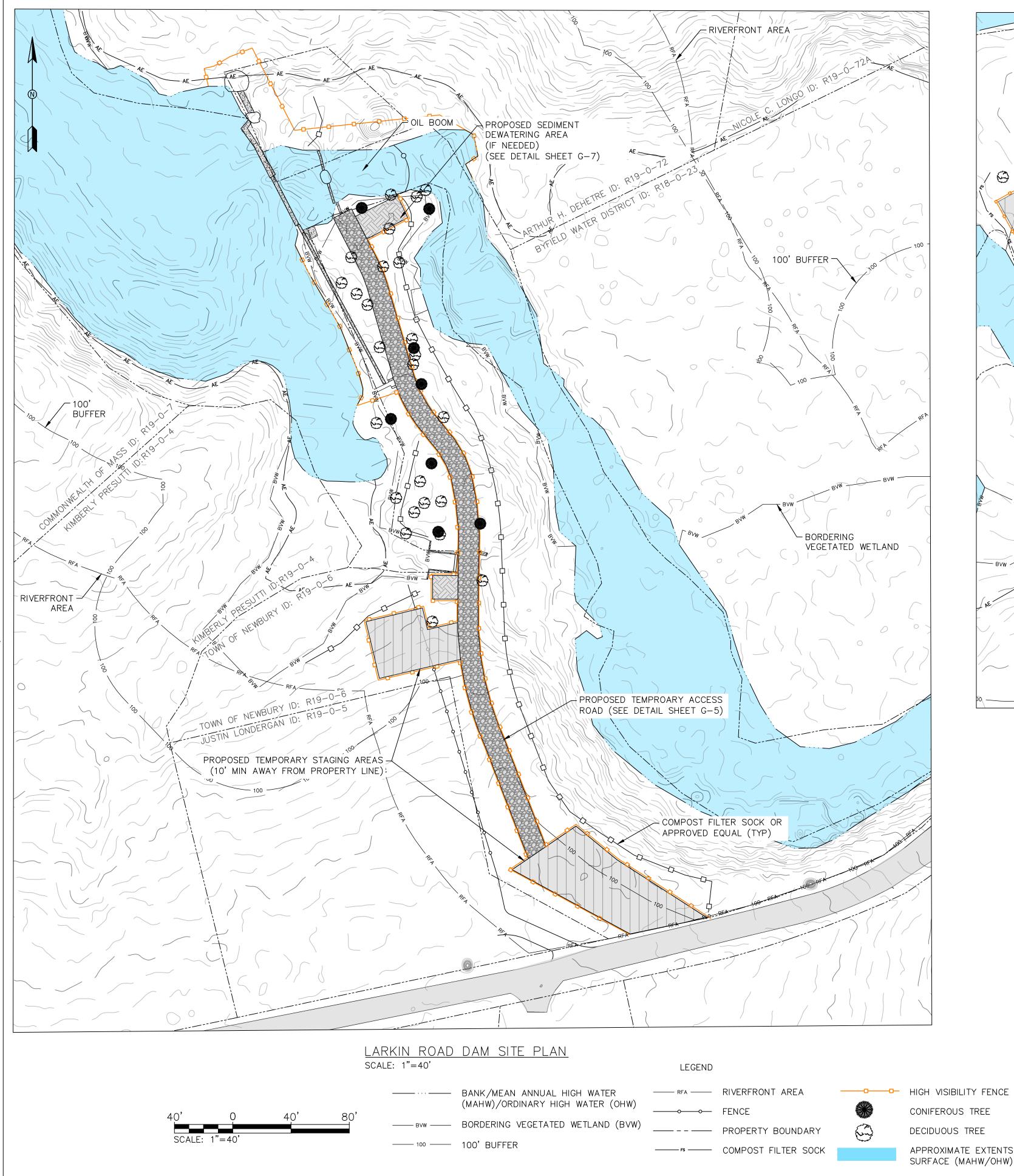
LOAM AND SEED DISTURBED AREAS WITH A NATIVE SEED MIXTURE APPROVED BY 11. ENGINEER.



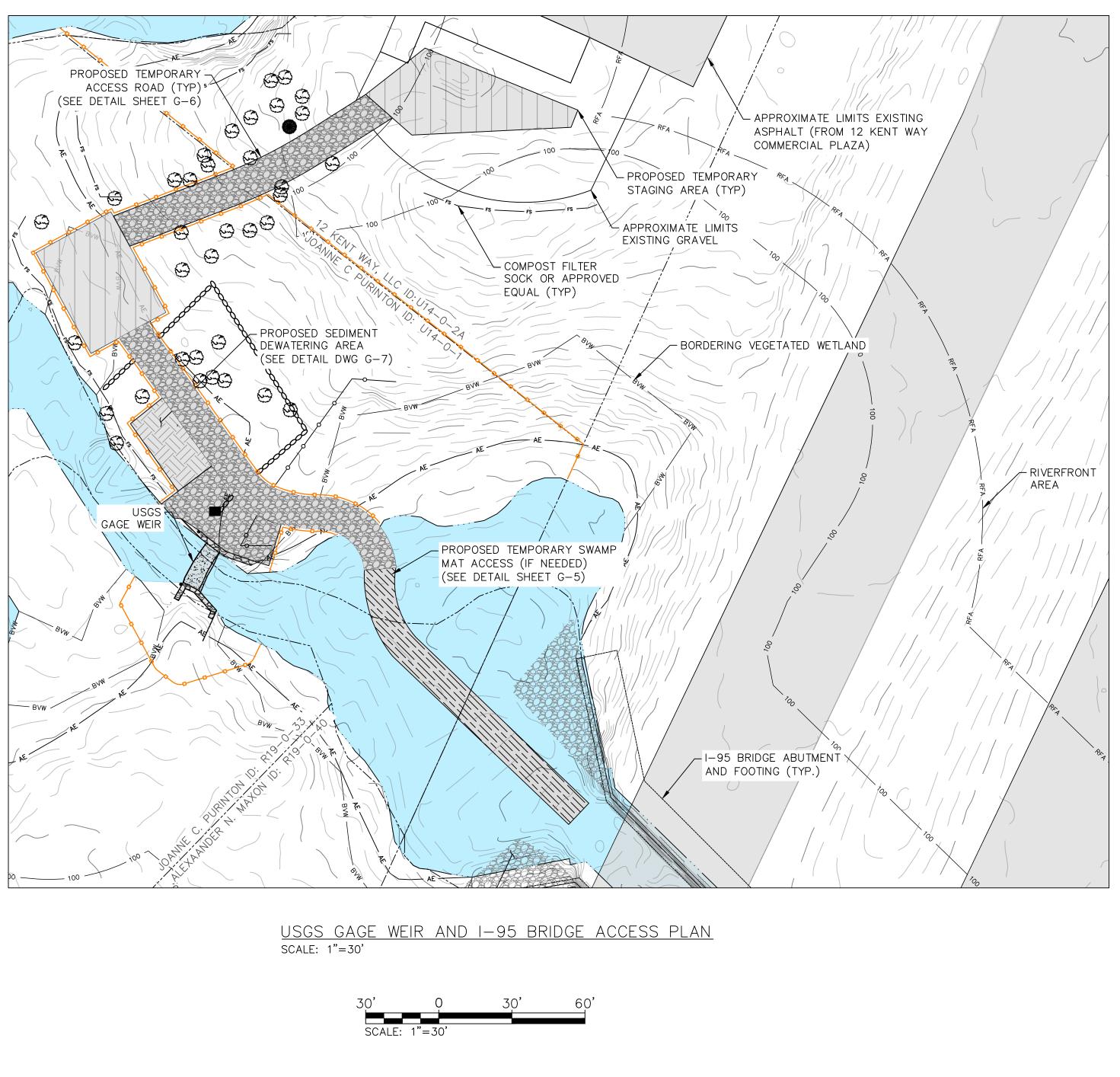
THE DIRECTION OF A LICENSED THE SIGNATURE AND DATE. UNDER ERATION, THIS DRAWING IN ANYWAY UNLESS HE IS ACTING AFFIXED ALONG WITH A DESCRIPTION OF THE ALT ALTER SEAL ANY PERSON TO / E THE ENGINEER'S IT IS A VIOLATION OF THE LAW FOR ENGINEER. ALTERATIONS MUST HAVE

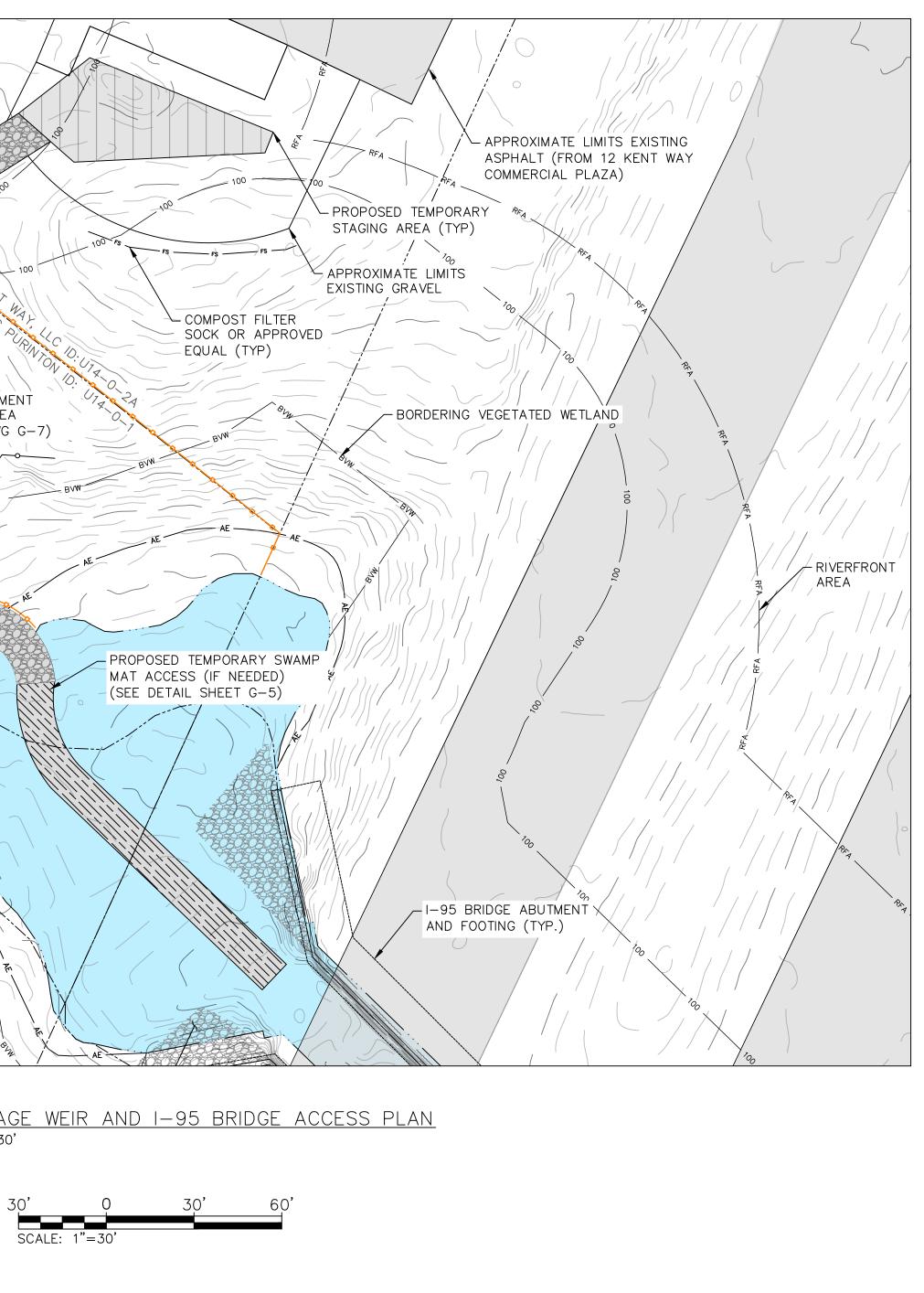


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j j		
		F PROPOSED
		CT AREA
ED FOR BID MAO JWO	G Town of Newbury	Gamez and Sullivan Engineers D.D.C.
CRIPTIONS BY APP	12 Kent Way	Gomez and Sullivan Engineers, D.P.C. 41 Liberty Hill Road
	Byfield, MA 01922	PO Box 2179
NG		Henniker, NH 03242
JWG		
02430 DATE: 06/04/2025	SCALE: AS NOTED	DRAWING: G-4
ULTUU UNIL. UU/U4/2U23		



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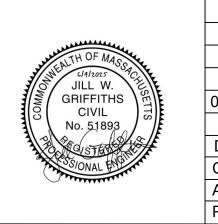


RFA	RIVERFRONT AREA
~ ~	FENCE
	PROPERTY BOUNDARY
FS	COMPOST FILTER SOCK

CONIFEROUS TREE

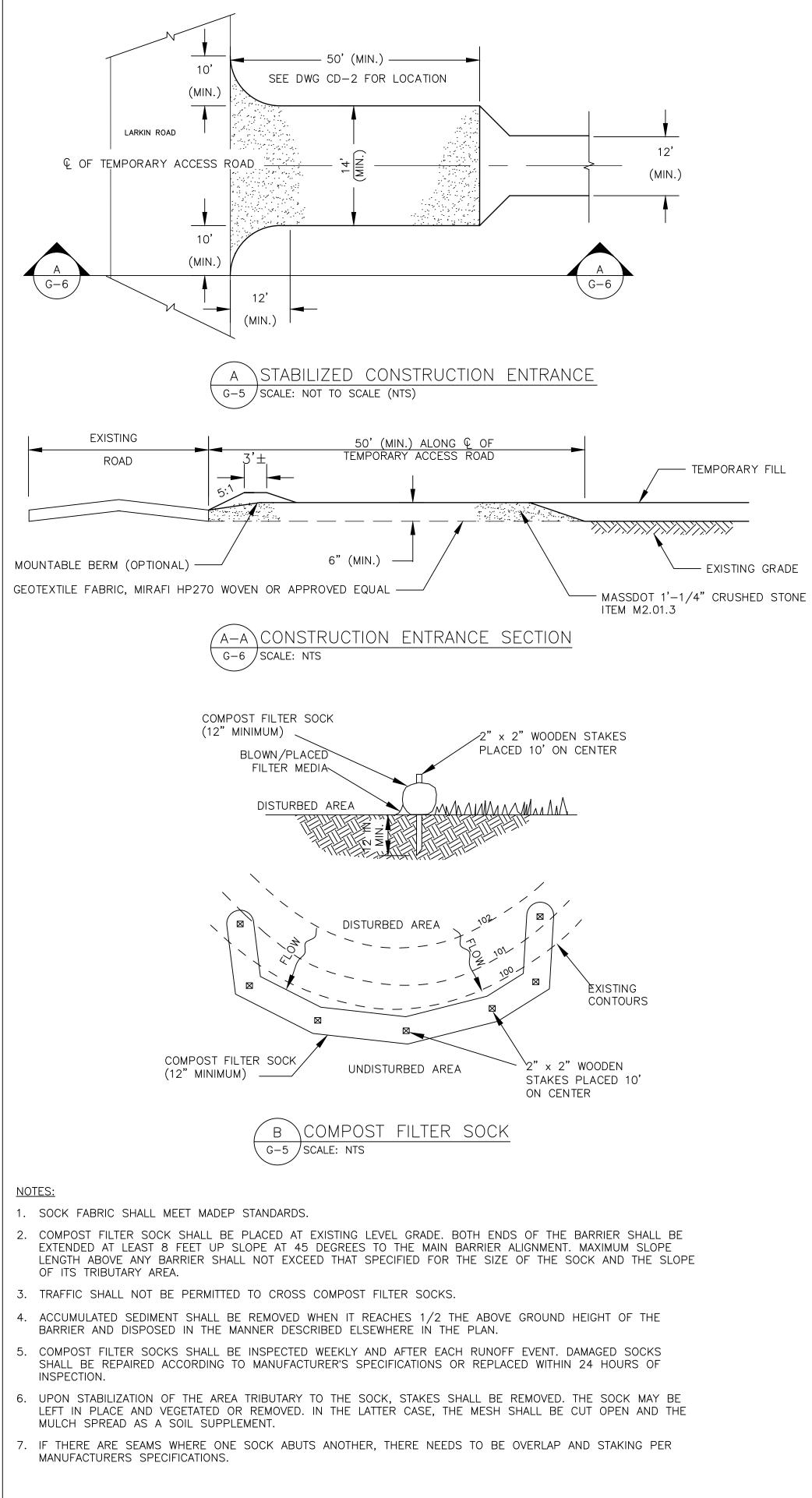
DECIDUOUS TREE

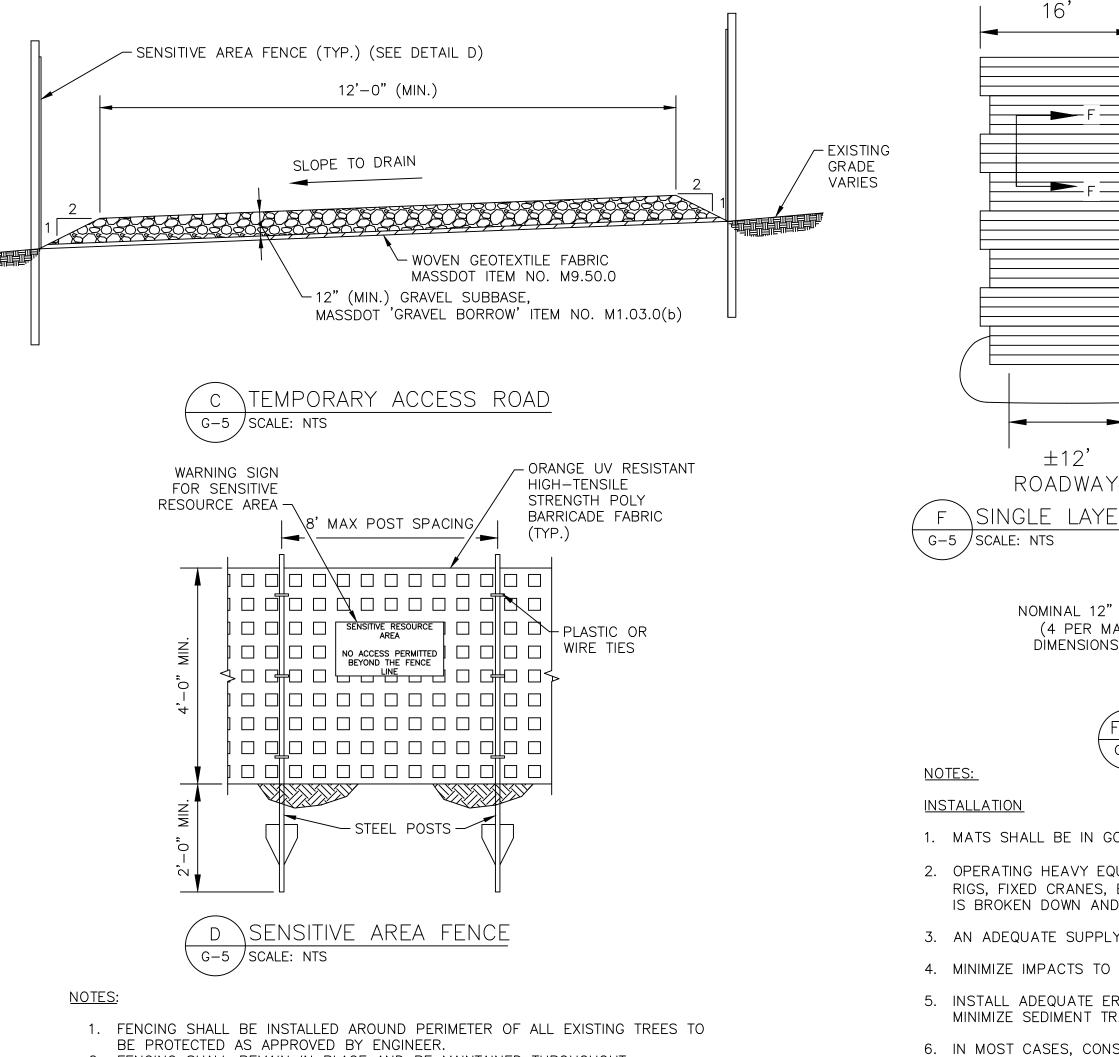
APPROXIMATE EXTENTS OF WATER SURFACE (MAHW/OHW)



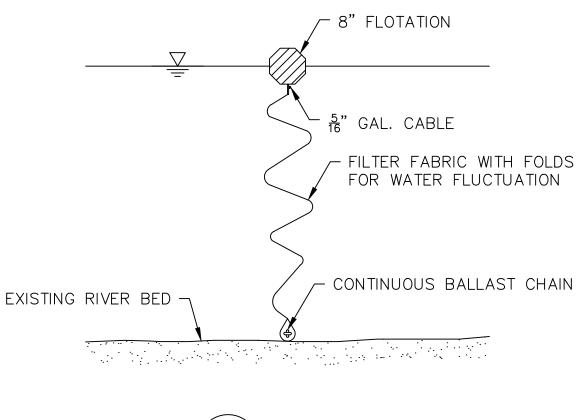
06/04/25	0	ISSUE
DATE	#	DESC
DRAWN	BY:	MAO
CHECKE	DB	SY: JW
APPROV	ΈD	BY: J
PROJEC	ΤN	0.
-		

		PARKER RIVER RESTORATION PROJECT		
			EROSION AND SEDIMENT CONTROL PLAN	
ED FOR BID	MAO	JWG	Town of Newbury	Gomez and Sullivan Engineers, D.P.C.
CRIPTIONS	BY	APP	12 Kent Way Byfield, MA 01922	41 Liberty Hill Road PO Box 2179
C			Henniker, NH 03242	
WG				
JWG				
02430	DATE: 06/04/2	025	SCALE: AS NOTED	DRAWING: G-5





2. FENCING SHALL REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT CONSTRUCTION AND THEN REMOVED COMPLETELY AS DIRECTED BY THE OWNER.





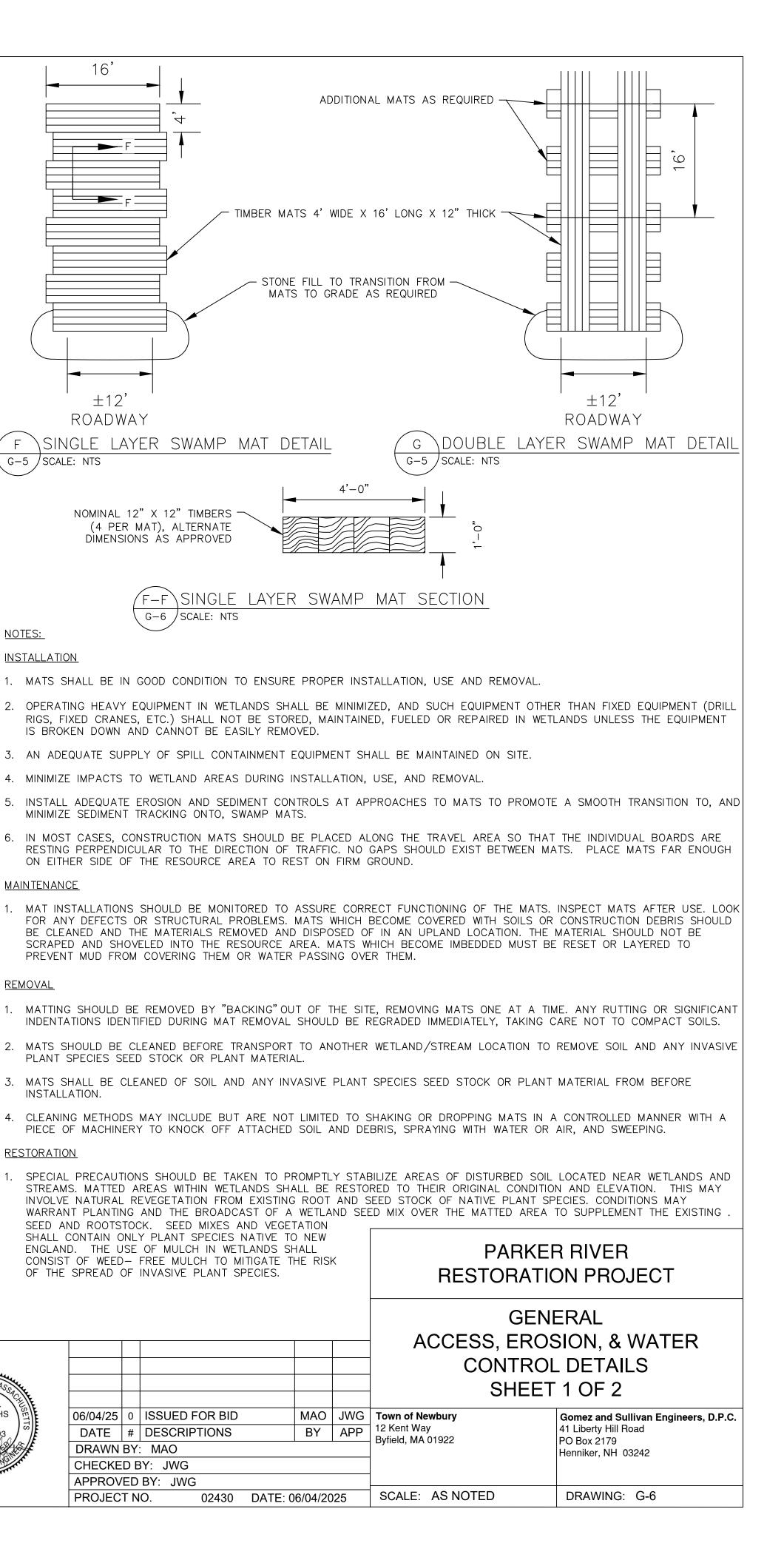
JILL W. GRIFFITHS CIVIL No. 51893 DRAWN BY: MAO PROJECT NO.

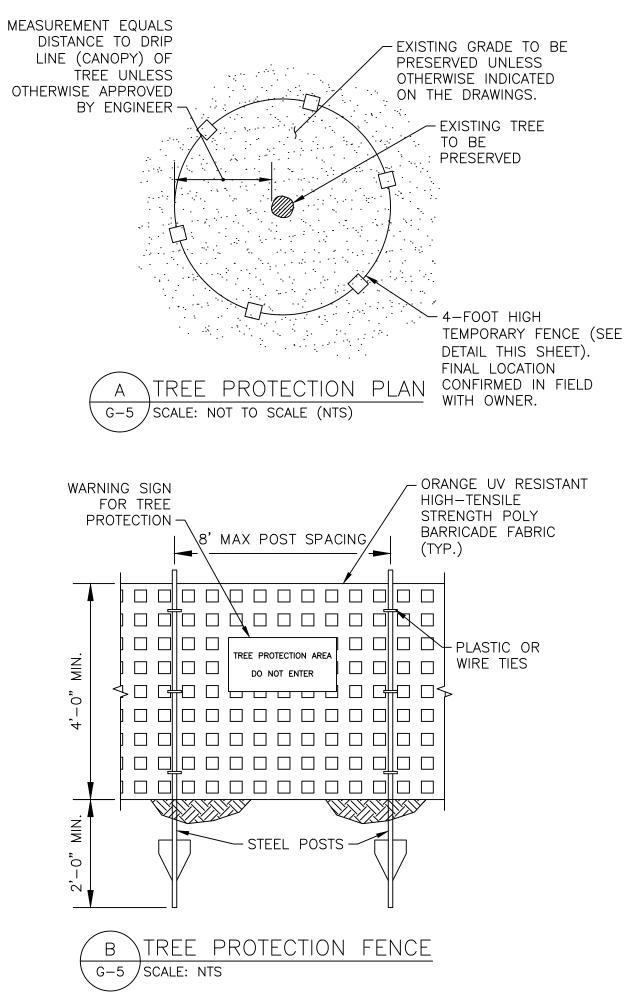
<u>MAINTENANCE</u>

<u>REMOVAL</u>

INSTALLATION.

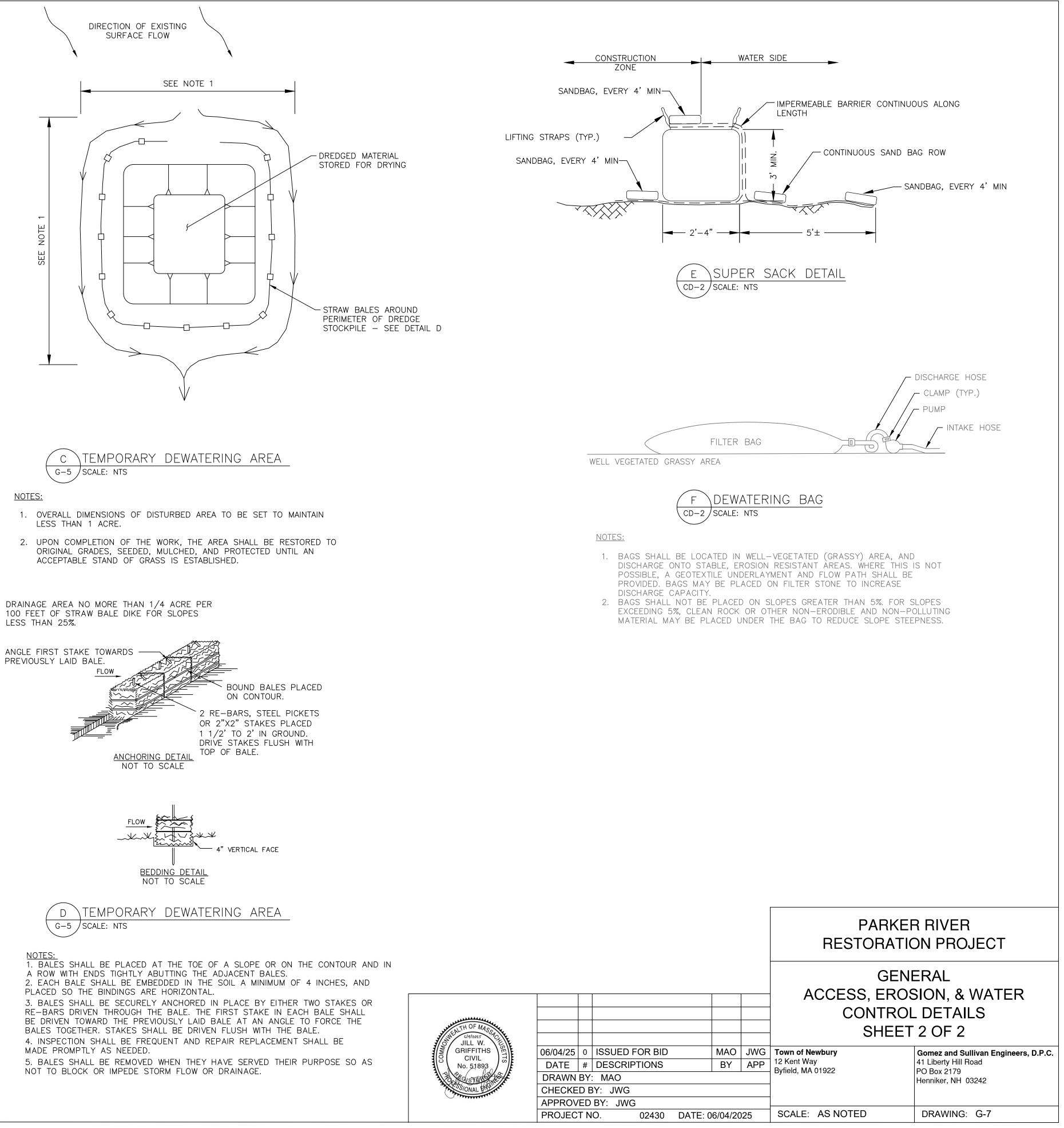
RESTORATION

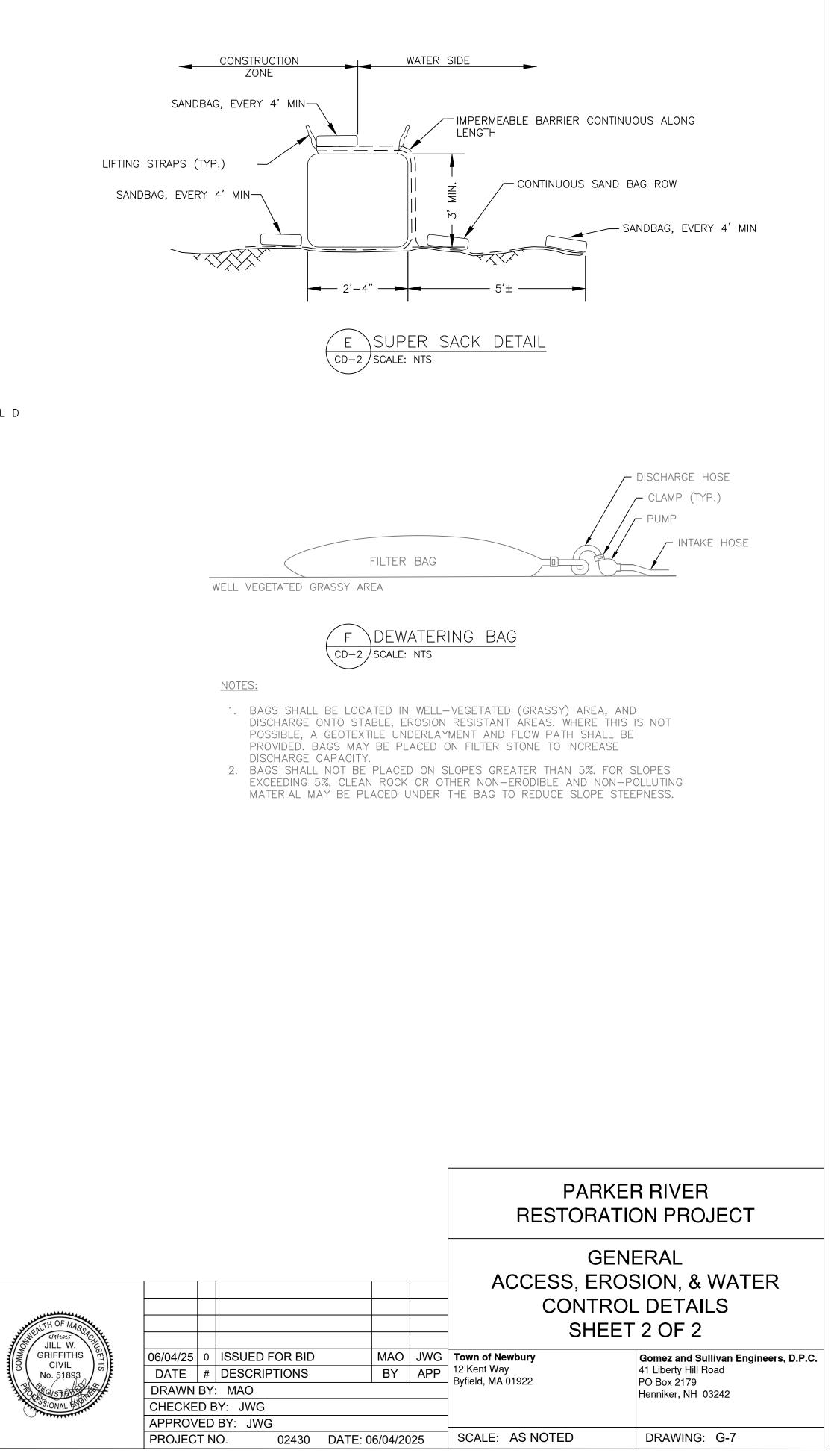


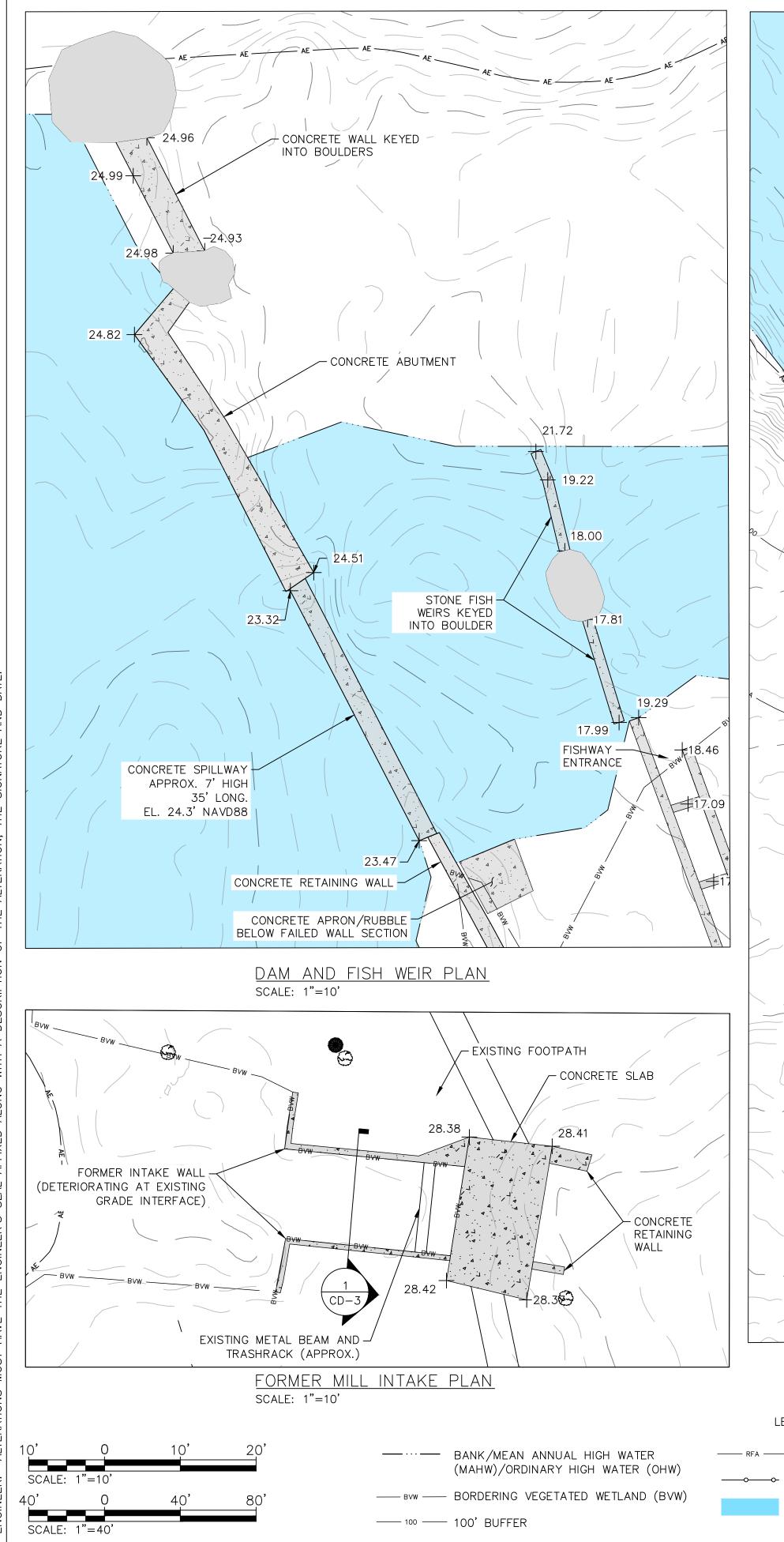


<u>NOTES:</u>

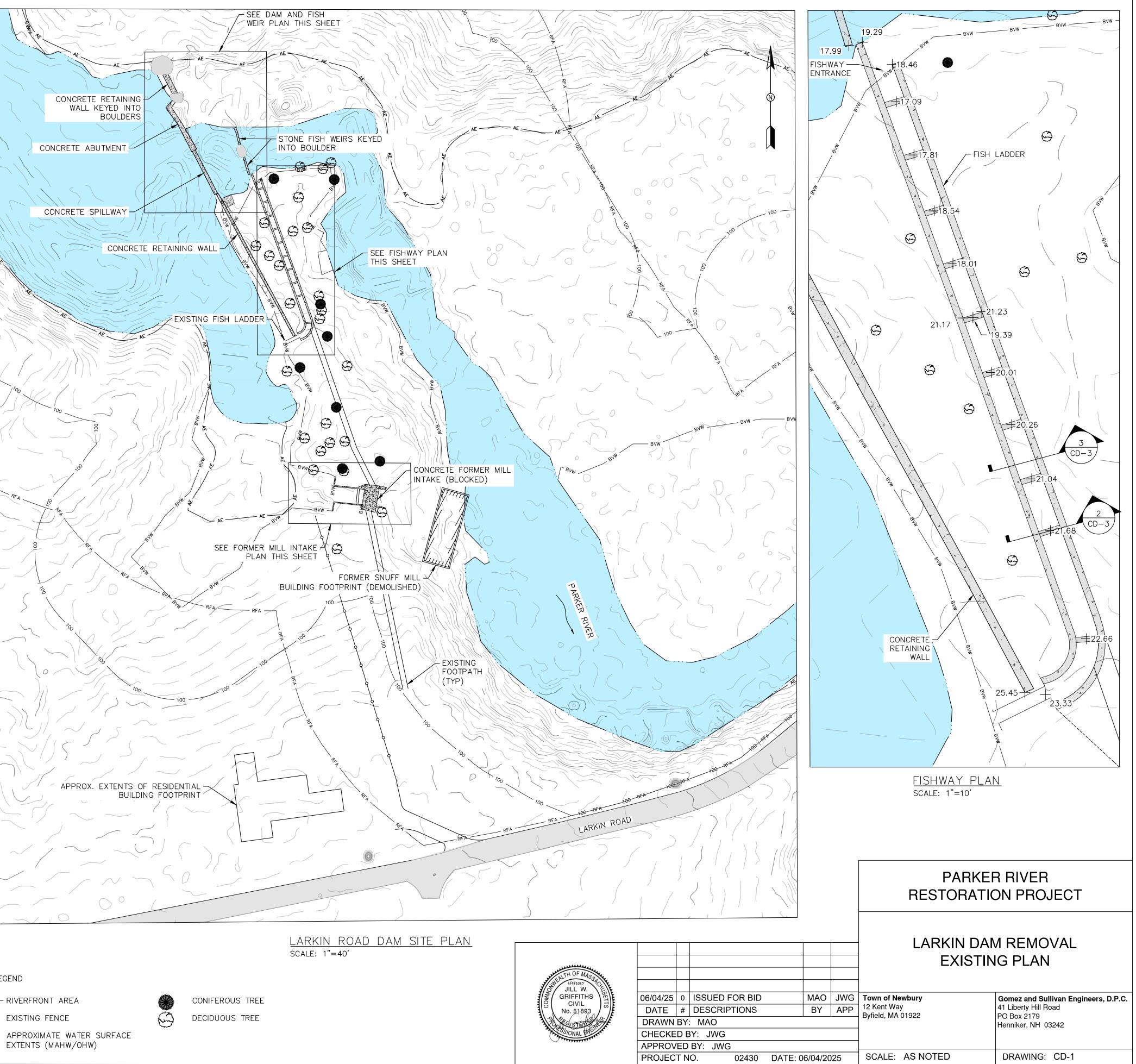
- 1. FENCING SHALL BE INSTALLED AROUND PERIMETER OF ALL EXISTING TREES TO BE PROTECTED AS APPROVED BY ENGINEER.
- 2. FENCING SHALL REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT
- CONSTRUCTION AND THEN REMOVED COMPLETELY AS DIRECTED BY THE OWNER.







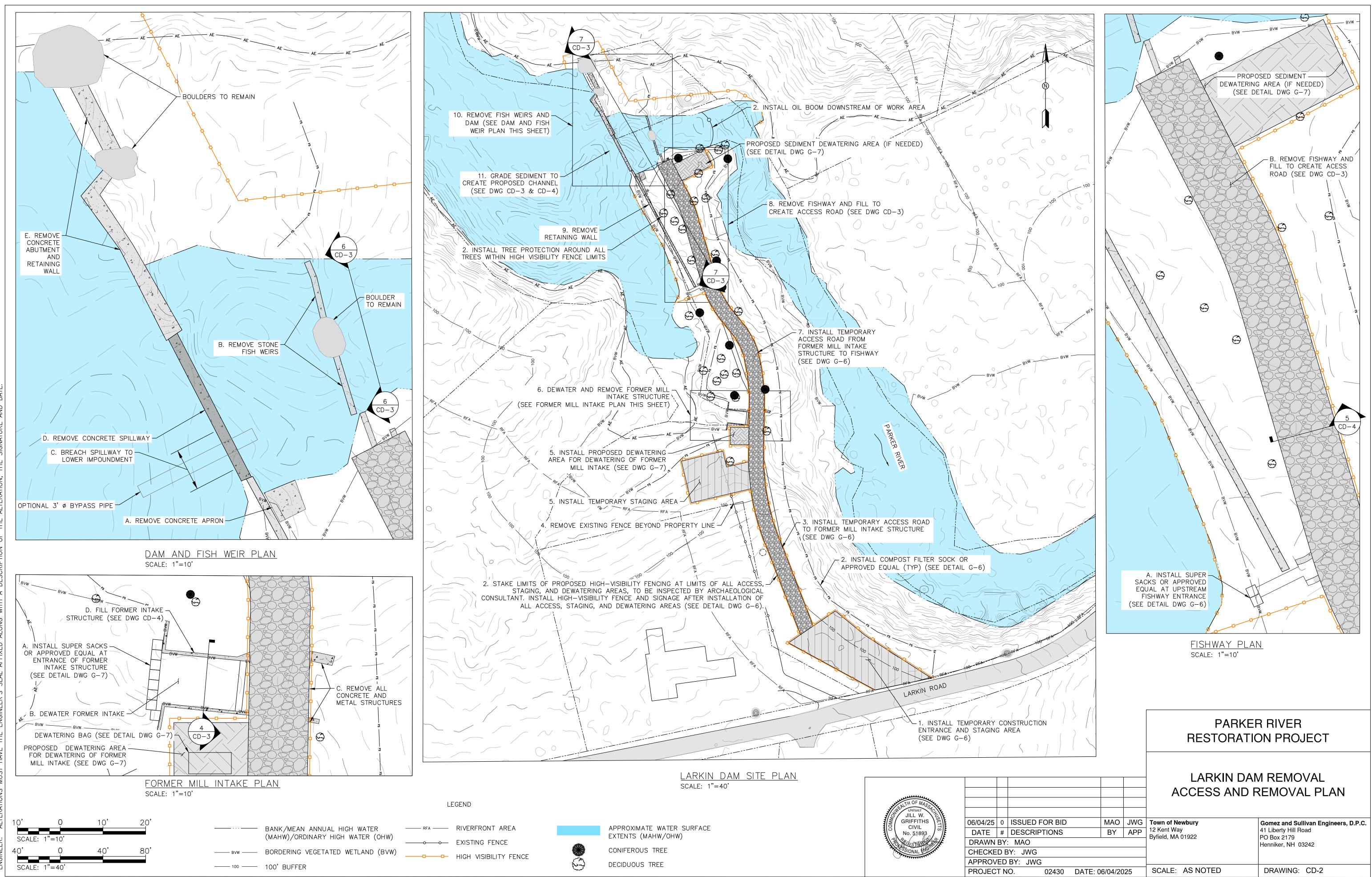
LEGEND ------ RIVERFRONT AREA -----------------------------------EXISTING FENCE



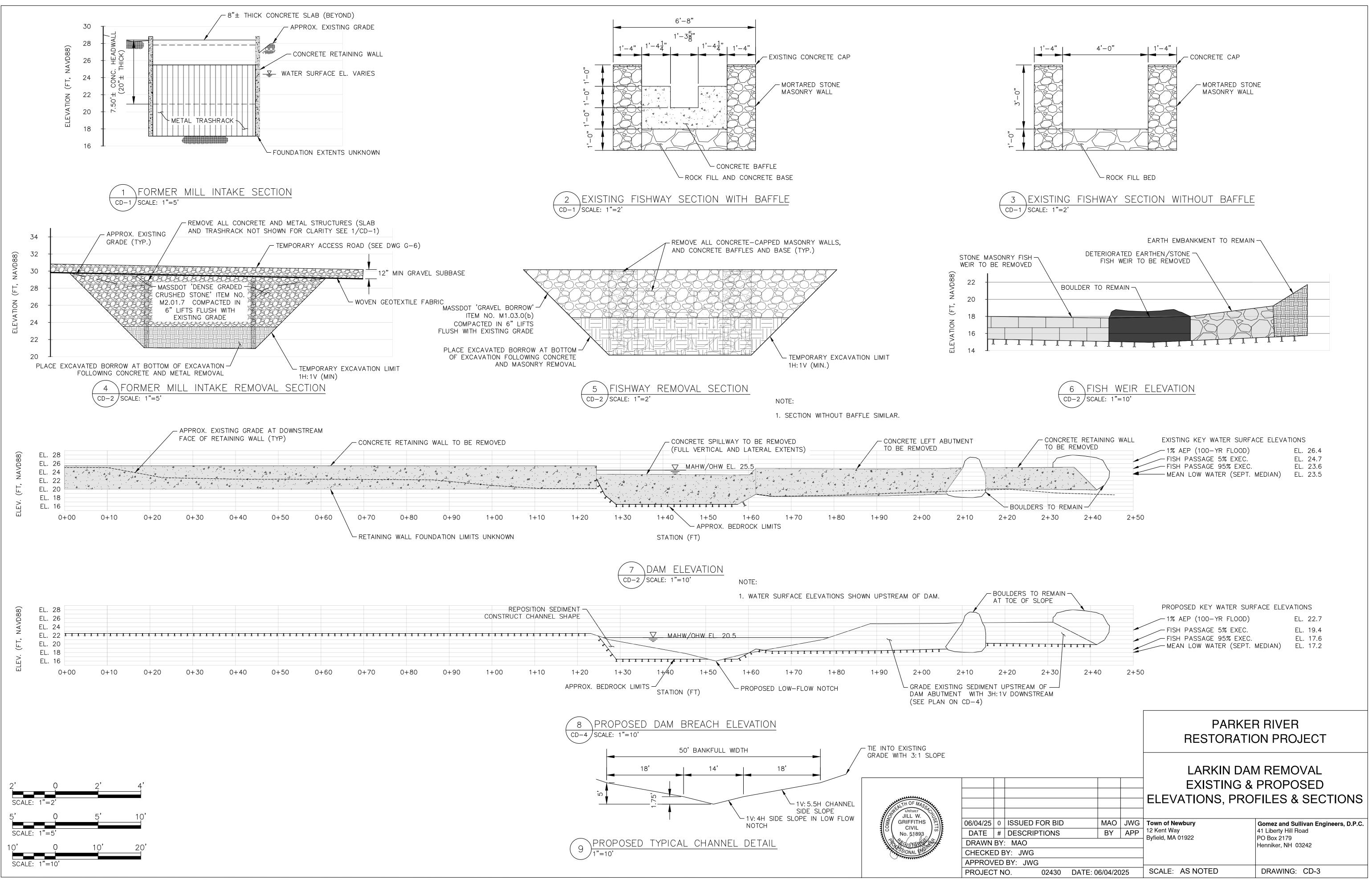




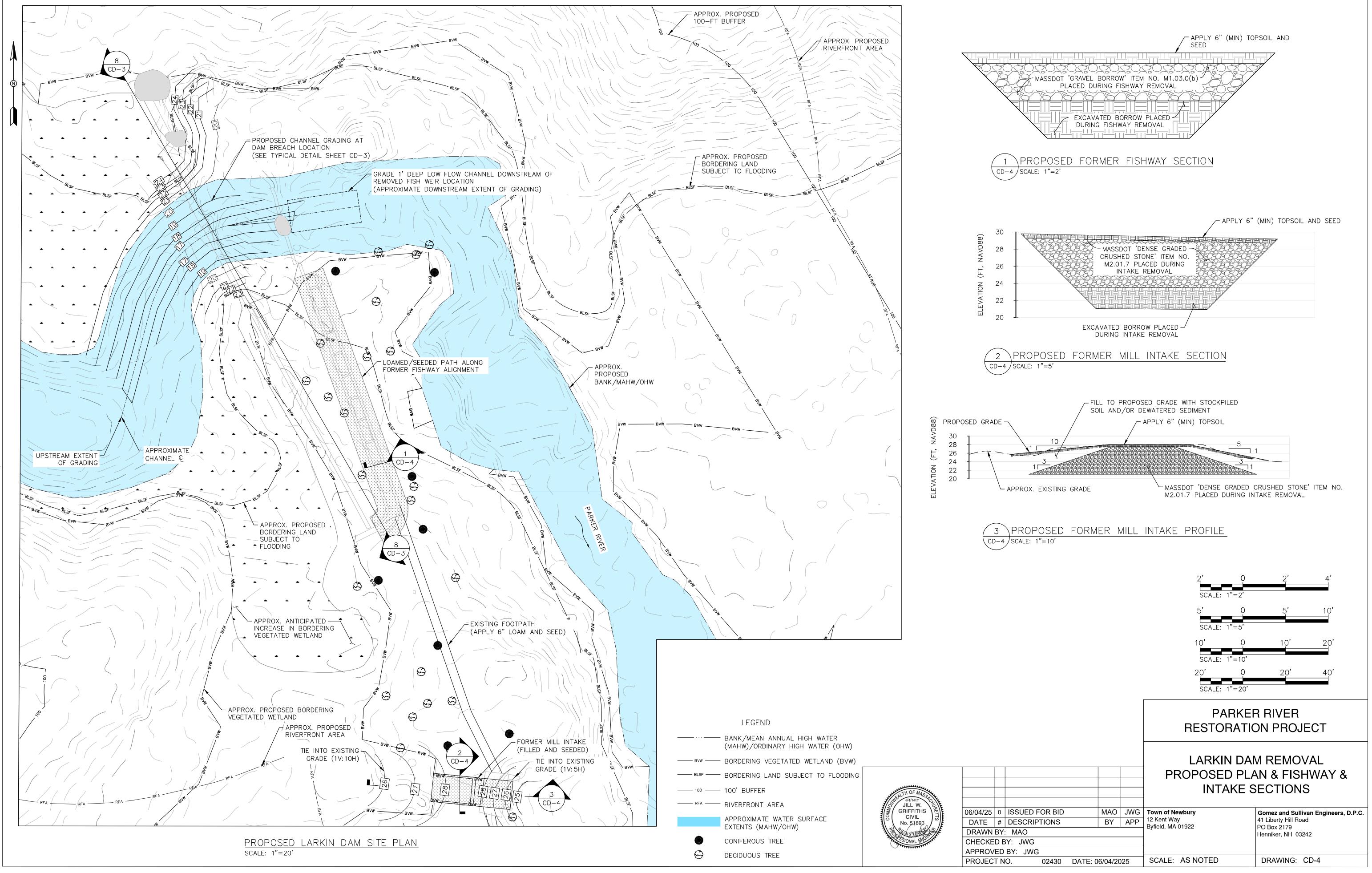
06/04/25	0	ISSUE
DATE	#	DESC
DRAWN	BY	MAO
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APPROV	ΈD	BY: J
PROJEC	ΤN	0.



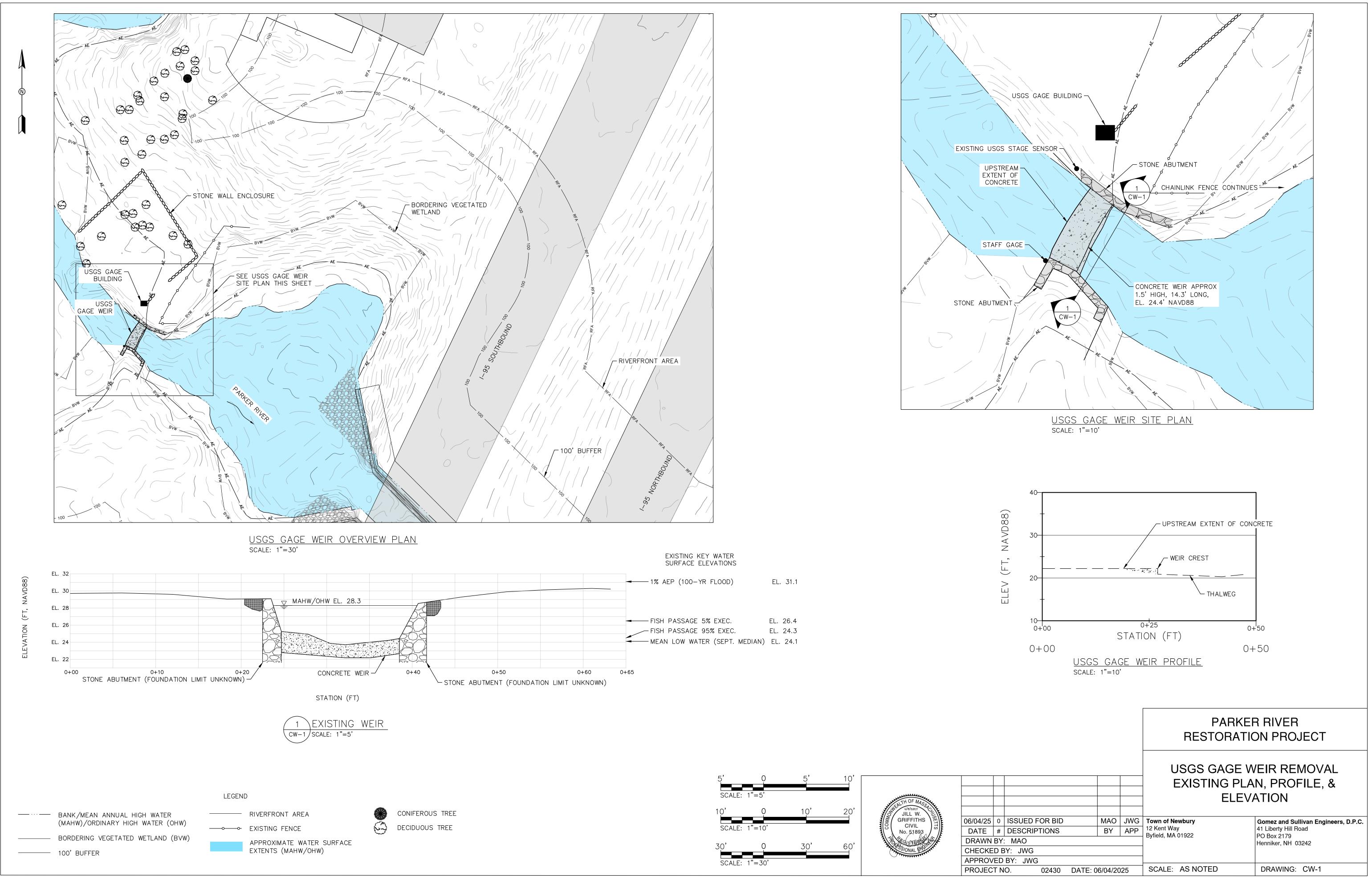
Z Z THE AC _∩ ட `WAY A DE NA HI ∠ ≥ ו≽≰∣ ۲<u>۳</u> THIS AFFIX ALTER SEAL TO R'S PERS ANY TH[FOR HAVE ¥₽ S <u></u> ⊃ ∩ 0



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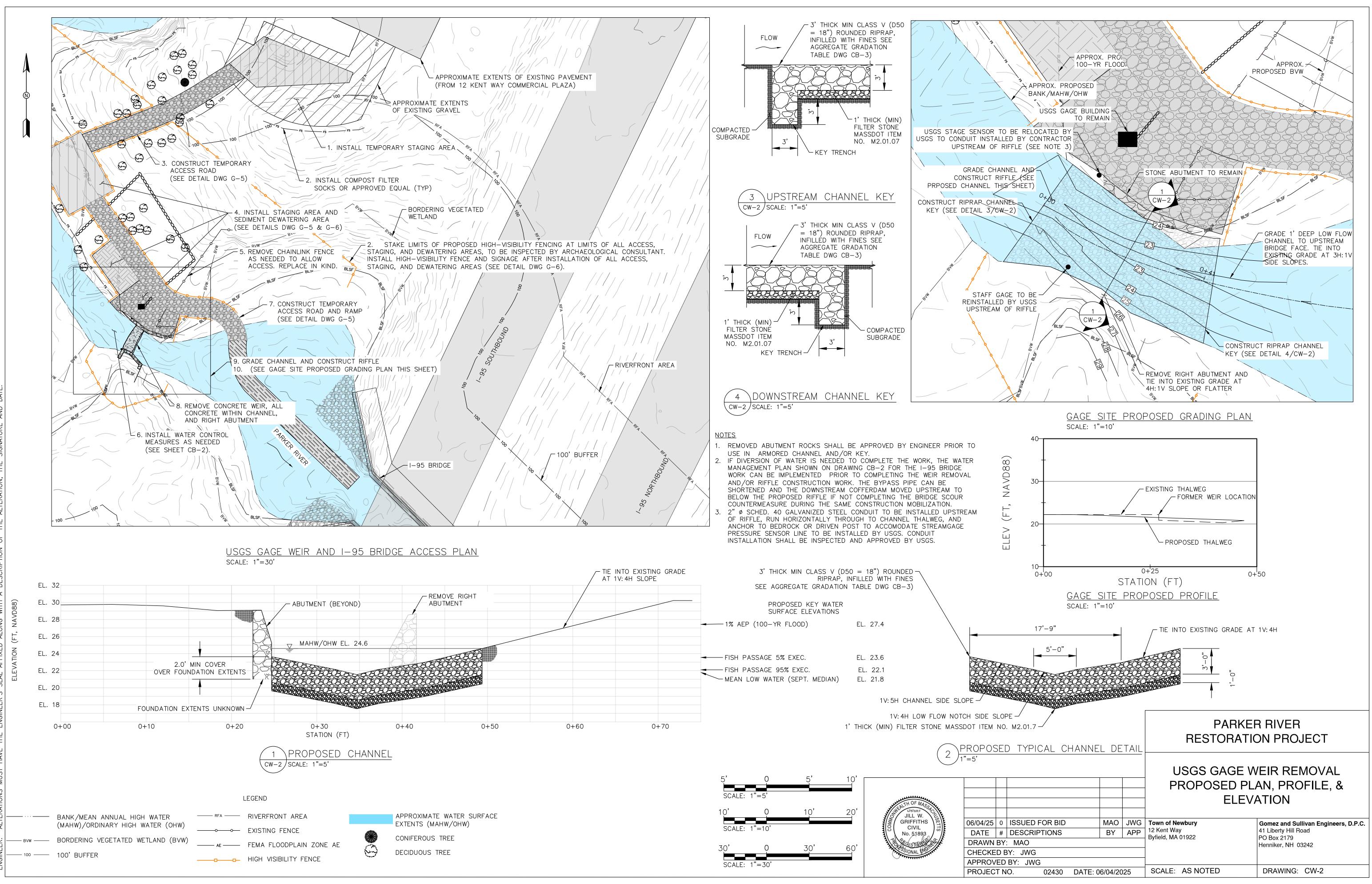


LICENSE DATE. ACTING THE ALT IN ANYWAY UNLESS HE IS WITH A DESCRIPTION OF THIS DRAWING I AFFIXED ALONG ALTER SEAL E ENGINEER'S ANY THE FOR HAVE LAW MUST OF THE ATION ALTER/ A VIOI NEER. S N ⊢б



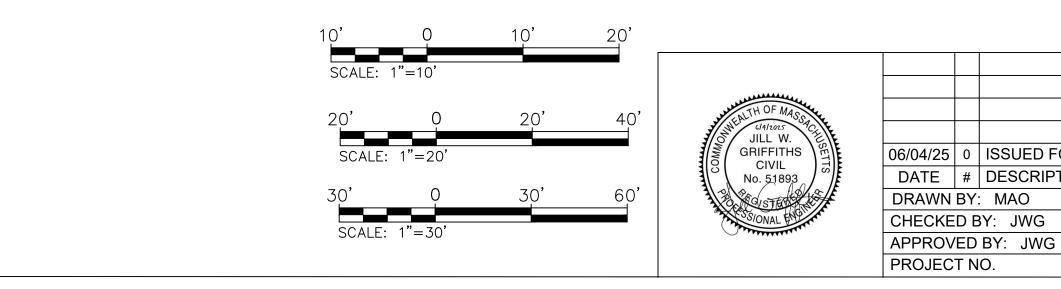
ATION OF THE LAW FOR ANY PERSON TO ALTER THIS DRAWING IN ANYWAY UNLESS HE IS ACTING ALTERATIONS MUST HAVE THE ENGINEER'S SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE AL A VIOI NEER. IT IS ENGIN





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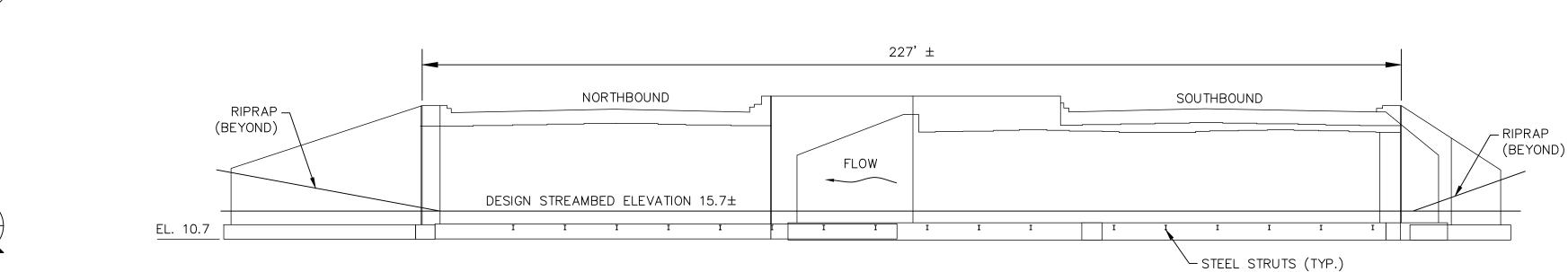
-LARGE RIPRAP (3'±) EXTENDS TO END OF LONGER WINGWALL AND APPROX. 10' OFF OF PROJECTED BREASTWALL (TYP.) 2 CB-1 AREA COVERED WITH SILT. -RIPRAP ASSUMED TO BE - ASSUMED LIMITS OF SCOUR SAND AND GRAVEL SUBSTRATE SIMILAR TO OTHER EMBANKMENTS - SCATTERED BOULDERS -BRIDGE ABUTMENT (TYP.) EXPOSED STRUTS & -FOOTING AT SCOURED AREA WITH SAND & GRAVEL - BRIDGE FOOTING (TYP.) APPROX. 38' SPAN CB-1 CB-1 CB-CB-1 RIPRAP ASSUMED TO BE SIMILAR TO OTHER EMBANKMENTS WINGWALL (TYP.)-V I-95 BRIDGE PLAN scale: 1"=30' NOTES: 2. SUBSTRATE CONSISTS OF SILT AND LEAVES UNLESS OTHERWISE NOTED. 3. ASSUMED LOCATIONS FOR STRUTS ON NORTHBOUND ABUTMENT. INSPECTION CONDUCTED APRIL 28, 2022. - STEEL STRUT /_____ BATTER PILE (TYP) ← BATTER PILE (TYP) 3 ABUTMENT DETAIL CB-1 SCALE: 1"=10' 4 WINGWALL DETAIL CB-1 SCALE: 1"=10'



4. INFORMATION ABOUT SUBSTRATE AND EXISTING SCOUR FROM MASSDOT UNDERWATER

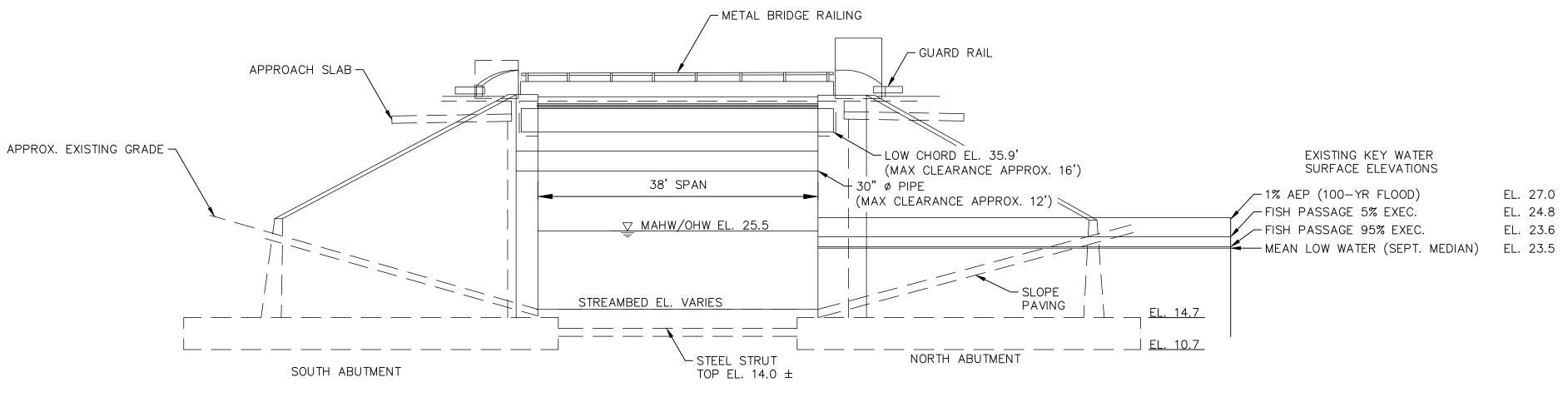
1. CONTOURS, WATER SURFACE, AND OTHER INFORMATION NOT SHOWN FOR CLARITY.

2 SOUTH BRIDGE ABUTMENT ELEVATION CB-1 SCALE: 1"=20'



AREA COVERED WITH SILT. RIPRAP ASSUMED TO BE SIMILAR TO OTHER EMBANKMENTS

1 NORTHBOUND BRIDGE SECTION $\left(CB-1 \right)$ SCALE: 1"=10'



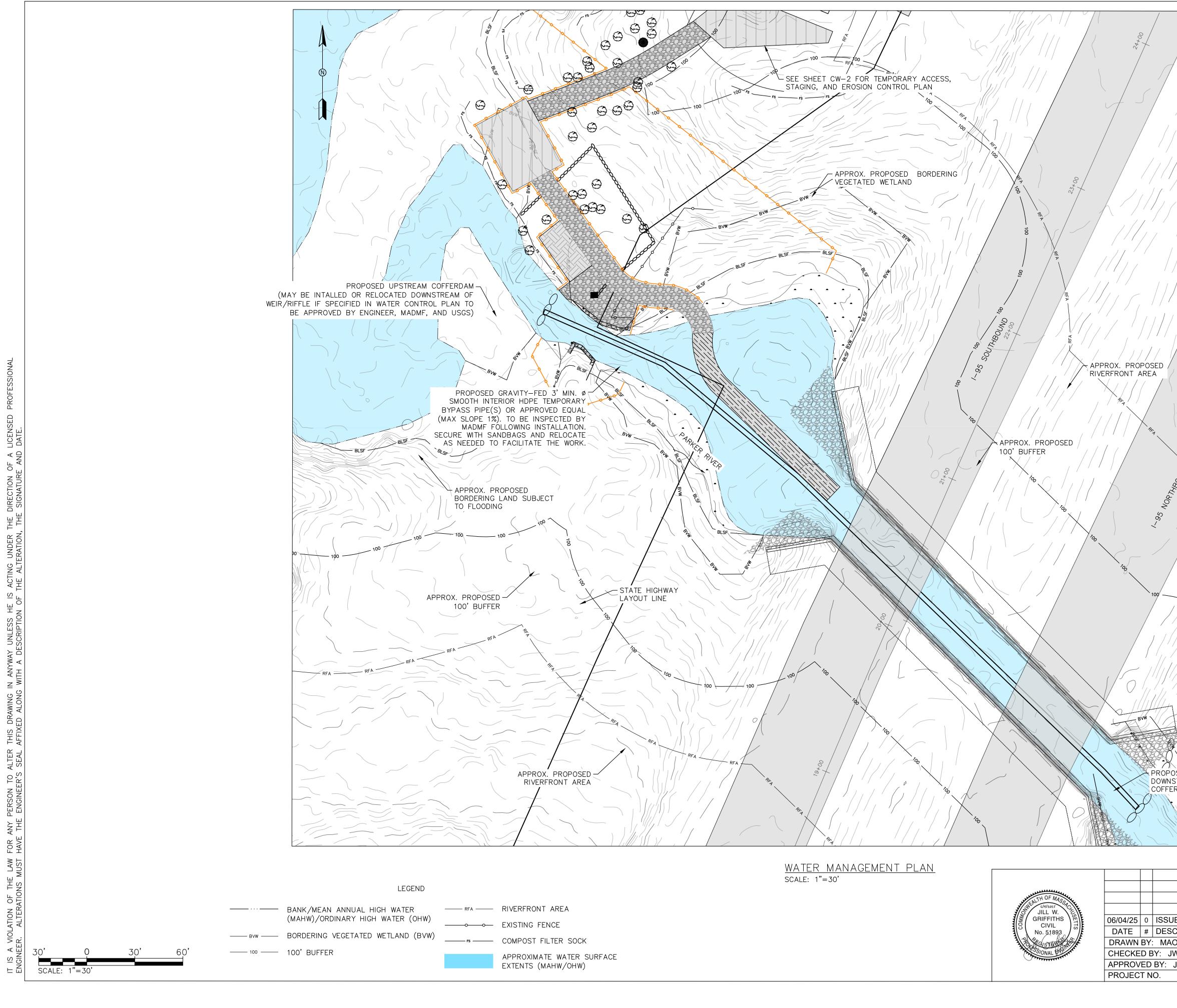
1. SOUTHBOUND DECK SIMILAR.

2. PILES NOT SHOWN.

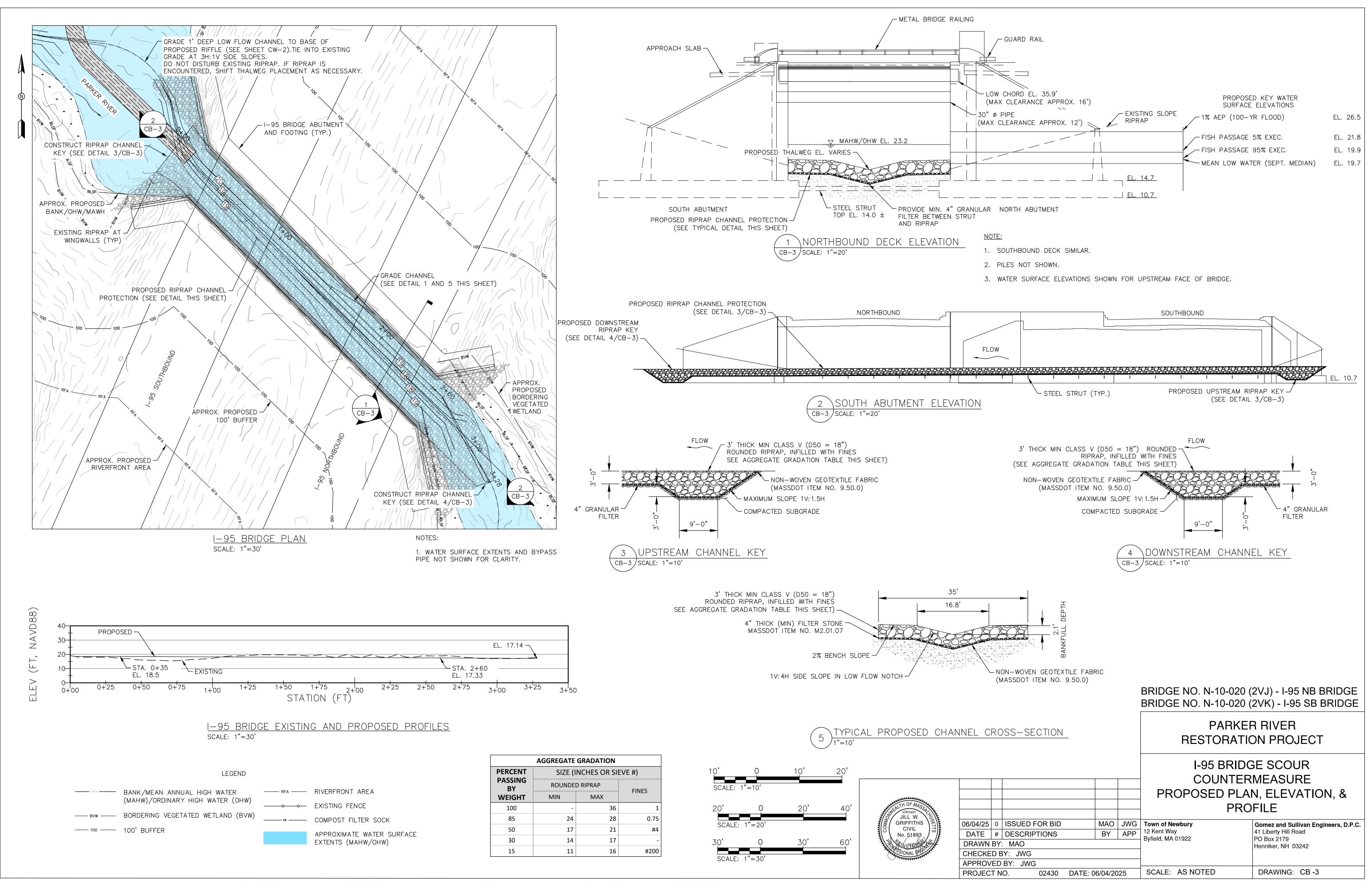
<u>NOTE:</u>

3. WATER SURFACE ELEVATIONS SHOWN FOR UPSTREAM FACE OF BRIDGE.

		BRIDGE NO. N-10-020 (2 BRIDGE NO. N-10-020 (2	,	
		PARKEF RESTORATIO		
		I-95 BRIDGE SCOUR COUNTERMEASURE		
		EXISTING PLAN, ELEVATION, & DETAILS		
ED FOR BID MAO CRIPTIONS BY	JWG APP	Town of Newbury 12 Kent Way	Gomez and Sullivan Engineers, D.P.C. 41 Liberty Hill Road	
D WG		Byfield, MA 01922	PO Box 2179 Henniker, NH 03242	
JWG 02430 DATE: 06/04/202	25	SCALE: AS NOTED	DRAWING: CB-1	



NG JWG 02430 DATE	E: 06/04/20	25	SCALE: AS NOTED	DRAWING: CB-2
ED FOR BID CRIPTIONS D	MAO BY	JWG APP	Town of Newbury 12 Kent Way Byfield, MA 01922	Gomez and Sullivan Engineers, D.P.C. 41 Liberty Hill Road PO Box 2179 Henniker, NH 03242
			I-95 BRIDGE SCOUR COUNTER MEASURE & USGS WEIR REMOVAL WATER MANAGEMENT PLAN	
E				
RDAM			PARKER RIVER RESTORATION PROJECT	
DSED STREAM		_	BRIDGE NO. N-10-0 BRIDGE NO. N-10-0	020 (2VJ) - I-95 NB BRIDGE 020 (2VK) - I-95 SB BRIDGE
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