

Prepared for The:

TOWN OF DUDLEY, MASSACHUSETTS

CARPENTER POND DAM REMOVAL

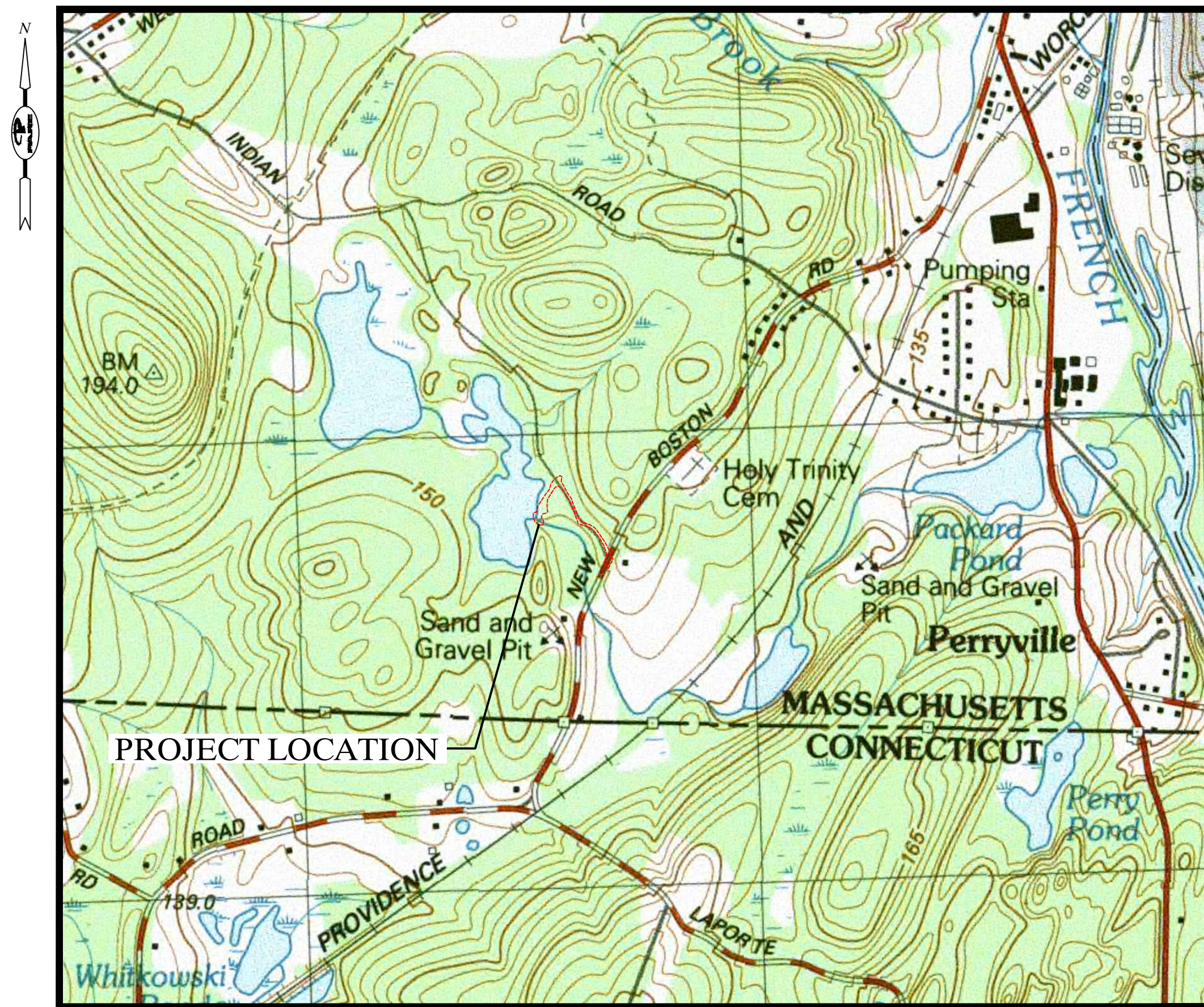
MA00220

DUDLEY, MASSACHUSETTS

APRIL 2026

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LOCUS PLAN
SCALE: 1" = 2000'



AERIAL PLAN
SCALE: 1" = 400'



THIS PROJECT IS FUNDED BY
THE EXECUTIVE OFFICE OF ENERGY
AND ENVIRONMENTAL AFFAIRS

Prepared by:

PARE CORPORATION

Foxboro, Massachusetts



GENERAL NOTES:

- FOR THE PURPOSE OF THIS PROJECT
OWNER – TOWN OF DUDLEY
71 WEST MAIN STREET
DUDLEY, MASSACHUSETTS 01571
ENGINEER – PARE CORPORATION
10 LINCOLN ROAD, SUITE 210
FOXBORO, MA 02035
CONTACT – ALLEN R. ORSI, P.E.
- ALL CONSTRUCTION ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MASSACHUSETTS STATE BUILDING CODE, THE SPECIFICATIONS INCLUDED IN THIS CONTRACT, AND APPLICABLE MASSACHUSETTS RULES AND REGULATIONS. THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS. WHERE REFERENCE IS MADE TO ANY STANDARD SPECIFICATION IT SHALL MEAN THE MOST RECENT SPECIFICATION, CODE, STANDARD, OR INTERIM SPECIFICATIONS OF THE ORGANIZATION REFERRED TO AND SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS TO THE EXTENT INDICATED. IN CASE OF CONFLICT, THE MORE RIGID REQUIREMENTS AND CODES SHALL GOVERN. THESE CODES INCLUDE, BUT ARE NOT LIMITED TO: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
- THE PLANS WERE DEVELOPED BASED UPON AVAILABLE LIDAR TOPOGRAPHIC IMAGERY AND "EXISTING CONDITIONS PLAN" PREPARED BY WSP USA, INC. OF WORCESTER, MA DATED JULY 29, 2022. ANY DISCREPANCIES ON THESE PLANS WITH REGARD TO DIMENSION OR CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH AFFECTED PORTION OF WORK. THE BRUSH AND TREE GROWTH HAS CONTINUED SINCE THE DATE OF THE SURVEY AND SHOULD BE REVIEWED BY THE CONTRACTOR.
- WETLAND RESOURCE AREAS WERE DELINEATED BY PARE CORPORATION ON JULY 21, 2022. THE FOLLOWING WETLAND FLAGS WERE LOCATED BY WSP USA, INC: P1 TO P21, R1 TO R5, R100 TO R104, A28 TO A35, AND A43 TO A53. THE REMAINING WETLAND FLAGS WERE LOCATED USING A HANDHELD GPS UNIT WITH SUB-METER ACCURACY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
- CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY.
- NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- INFORMATION REGARDING THE LOCATION OF SURROUNDING STRUCTURES, UTILITIES, AND THE AS-BUILT CONFIGURATION AND POSITION OF THE EXISTING DAM AND SPILLWAY IS FURNISHED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL CONDUCT ITS OWN INDEPENDENT EXAMINATION OF SITE CONDITIONS FOR THE PURPOSE OF BIDDING, FABRICATION, AND CONSTRUCTION ASSOCIATED WITH THE PROJECT. ANY RELIANCE UPON INFORMATION MADE AVAILABLE BY THE OWNER OR THE ENGINEER SHALL BE AT THE CONTRACTOR'S RISK.
- THE VERTICAL DATUM FOR THE PROJECT IS NAVD 1988. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE NAD 1983. CONTRACTOR SHALL ESTABLISH HORIZONTAL AND VERTICAL CONTROL AS REQUIRED TO ENABLE COMPLETION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH MASSACHUSETTS, LOCAL, AND FEDERAL LAWS.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF ALL PERMITS FOR THE WORK. THE CONTRACTOR SHALL COORDINATE SCHEDULE WITH THE OWNER AND ANTICIPATED PERMIT ISSUE DATES.
- THE CONTRACTOR SHALL FOLLOW ALL OSHA AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS FOR ALL PROJECT COMPONENTS AND ACTIVITIES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OF THE OWNER OR ENGINEER.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE LIMITS OF WORK AND TEMPORARY EASEMENTS DEFINED HEREIN.
- WHERE REFERENCE IS MADE TO ANY STANDARD SPECIFICATION, IT SHALL MEAN THE MOST RECENT SPECIFICATION, CODE, STANDARD, OR INTERIM SPECIFICATIONS OF THE ORGANIZATION REFERRED TO AND SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS TO THE EXTENT INDICATED. IN CASE OF CONFLICT, THE MORE RIGID REQUIREMENTS AND CODES SHALL GOVERN. THESE CODES INCLUDE, BUT ARE NOT LIMITED TO: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
- THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER WITHIN 3 DAYS OF THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL UPDATE THEIR SCHEDULE AS NEEDED AND AS REQUESTED BY THE OWNER THROUGHOUT THE COURSE OF WORK.
- THE CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREAS. ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREA.
- THE CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FENCES, FLASHING WARNING LIGHTS, AND POLICING IF NECESSARY.
- UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL PROVIDE TWO AS-BUILT PLAN SETS TO THE OWNER DEPICTING ANY FIELD CHANGES OF DIMENSION OR DETAIL, LOCATION OF UNDERGROUND STRUCTURES AND/OR UTILITIES, CONSTRUCTION DEVIATIONS, CHANGES DUE TO FIELD OR CHANGE ORDER, AND DETAILS NOT ON THE ORIGINAL DRAWINGS.
- NO WORK OR DISCHARGES, OTHER THAN THAT SHOWN, SHALL BE PERFORMED WITHIN WETLANDS WITHOUT FIRST RECEIVING PROPER PERMITS FROM THE REGULATORY AGENCIES HAVING JURISDICTION OVER ALL OR PORTIONS OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES TO THE WETLAND AREA AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK, ALL DISTURBED AREAS SHALL BE DRESSED AND SEEDED AS REQUIRED HEREIN AND MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL BE REQUIRED TO WATER SEEDED SLOPES ON A DAILY BASIS UNTIL A SATISFACTORY STAND OF GRASS HAS DEVELOPED.
- THE CONTRACTOR SHALL ATTEND WEEKLY PROGRESS MEETINGS IN ACCORDANCE TO SPECIFICATION SECTION 01200: PROJECT MEETINGS.
- THE CONTRACTOR SHALL STOCKPILE ALL SUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION AND DEMOLITION ACTIVITY FOR REUSE. THE CONTRACTOR SHALL PROVIDE TARPS, COVERS, AND OTHER MEASURES TO PROTECT STOCKPILES FROM BECOMING SATURATED, FROZEN, OR OTHERWISE UNSUITABLE FOR REUSE.
- CONTRACTOR SHALL THOROUGHLY WASH AND CLEAN EQUIPMENT PRIOR TO DELIVERY TO THE SITE TO AVOID TRANSPORT AND INTRODUCTION OF INVASIVE SPECIES.

EMERGENCY RESPONSE NOTES:

- CONTRACTOR SHALL MAINTAIN ON SITE AND READILY AVAILABLE, MATERIALS OF SUFFICIENT TYPE AND QUANTITY TO CONTAIN AN ACCIDENTAL EQUIPMENT-BASED RELEASE OF FUEL OR OIL. AT A MINIMUM SUCH MATERIALS SHALL INCLUDE OIL BOOM OF SUFFICIENT LENGTH TO SPAN THE EXISTING OR PROPOSED CHANNEL AND A 55 GALLON CONSTRUCTION SITE SPILL KIT SUITABLE FOR CONTAINING SPILLS ON LAND OR IN WATER.
- FOLLOWING ANY ACCIDENTAL RELEASE OF OIL OR HAZARDOUS MATERIALS THE CONTRACTOR SHALL, AS SOON AS PRACTICABLE, NOTIFY THE LOCAL RIVER FIRE DEPARTMENTS BY CALLING 911. CONTRACTOR SHALL ALSO NOTIFY THE OWNER AND ENGINEER.
- RELEASES OF REPORTABLE QUANTITIES SHALL BE REPORTED IN ACCORDANCE WITH THE PROVISIONS OF THE MASSACHUSETTS CONTINGENCY PLAN.

EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL INSTALL SEDIMENT CONTROL DEVICES AS INDICATED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENT CONTROL DEVICES.
- CONTRACTOR SHALL LIMIT STOCKPILING OF MATERIALS TO THE INDICATED STAGING AREAS. ALL STOCKPILED MATERIAL SHALL BE SURROUNDED BY STRAW BALES AND SILT FENCE.
- THE LOCATION OF SEDIMENT CONTROL BARRIERS SHOWN IS CONSIDERED TO BE THE MINIMUM ACCEPTABLE AND SHALL BE MODIFIED, SUPPLEMENTED, OR EXPANDED BY THE CONTRACTOR AS FIELD CONDITIONS WARRANT.
- SEDIMENT CONTROL BARRIERS SHALL CONSIST OF SILT FENCE, STRAW BALES, SILT FENCE BACKED BY STRAW BALES, AND/OR FILTER SOCK AS FIELD CONDITIONS WARRANT. PROJECT ENGINEER SHALL APPROVE THE BARRIER TYPE.
- THE CONDITION OF THE SEDIMENT CONTROL BARRIERS SHALL BE MONITORED ON AN ON-GOING BASIS, AT A MINIMUM OF ONCE PER WEEK AND AFTER ANY RAINFALL EVENT IN EXCESS OF 0.25-INCH IN 24 HOURS. ANY FAILURE OF THE BARRIER SHALL BE CORRECTED WITHIN 24 HOURS OF DISCOVERY.
- SEDIMENT SHALL BE REMOVED AND DISPOSED BEFORE IT EXCEEDS 1/2 THE ORIGINAL EXPOSED HEIGHT OF THE BARRIER.
- STONE ANTI-TRACKING PADS SHALL BE UTILIZED AS NECESSARY TO PREVENT VEHICLE TRACKING OF SEDIMENTS ONTO PUBLIC ROADWAYS.
- THE CONTRACTOR SHALL BE PREPARED TO DEPLOY ADAPTIVE MEASURES AS NECESSARY TO LIMIT EXCESSIVE SHORT-TERM MOBILIZATION OF SEDIMENT SHOULD SUCH OCCUR DURING DAM REMOVAL OR BREACH CREATION AS DETERMINED NECESSARY BY THE CONTRACTOR OR AS RECOMMENDED BY THE PROJECT ENGINEER. IN-STREAM ADAPTIVE SEDIMENT CONTROL MEASURES MAY INCLUDE THE IMPLEMENTATION OF A SEDIMENT BASIN IN THE STREAM CHANNEL DOWNSTREAM OF THE DAM WITH CLEANUP PERFORMED AS NEEDED. ANY SUCH BASIN SHALL BE CONSTRUCTED USING ABOVE-GROUND BARRIERS (E.G., SUPERSACKS) TO CREATE A BERM RATHER THAN EXCAVATION IN THE RIVER CHANNEL.
- UPON COMPLETION OF THE PROJECT AND PERMANENT STABILIZATION OF THE GROUND SURFACE, ALL SEDIMENT CONTROL BARRIERS SHALL BE REMOVED AND DISPOSED OF IN AN APPROPRIATE FASHION.
- THIS WORK IS SUBJECT TO A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CONSTRUCTION GENERAL PERMIT (CGP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE EPA, PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), CONDUCTING THE REQUIRED SITE INSPECTIONS, MAINTAINING THE SWPPP PER THE CGP AND FILING A NOTICE OF TERMINATION WITH THE EPA AFTER SITE STABILIZATION REQUIREMENTS HAVE BEEN MET.
- SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE OF MASSACHUSETTS, AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.

LOAM AND SEED NOTES:

- CONTRACTOR SHALL APPLY FERTILIZER AND LOAM TO PREPARED TOPSOIL SURFACE AT THE RATES INDICATED IN THE PROJECT SPECIFICATIONS AND AS OTHERWISE RECOMMENDED BY THE SOIL CHEMICAL ANALYSIS.
- CONTRACTOR SHALL SEED ALL LOAMED AREAS AND OTHER AREAS DISTURBED BY THE WORK AS INDICATED IN THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MULCH ENTIRE SEEDED AREA WITH STRAW MULCH.
- CONTRACTOR SHALL INSTALL JUTE MESH OVER THE ENTIRE SEEDED AREA IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR OVERLAPPING, ANCHORING, AND DIRECTION OF PLACEMENT.
- UPON COMPLETION OF THE WORK ALL DISTURBED AREAS SHALL BE DRESSED AND COVERED WITH A MINIMUM OF 6-INCH OF LOAM IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEEDED AREA THROUGH ONE GROWING SEASON. MAINTENANCE INCLUDES MOWING, WATERING, AND RE-SEEDING AS REQUIRED TO DEVELOP A SATISFACTORY STAND OF HEALTHY GRASS AS DEFINED IN THE PROJECT SPECIFICATIONS (SECTION 02900: LANDSCAPING).

DIVERSION NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ANY DEMOLITION OR CONSTRUCTION. ANY DISCREPANCIES RELATING TO THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL MAINTAIN STREAM FLOW THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY SOIL OR OTHER MATERIAL FROM ENTERING THE DISCHARGE CHANNEL OR IMPOUNDMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOSS AND DAMAGE DUE TO A FAILURE OF ANY COFFERDAMS OR DIVERSION STRUCTURES CONSTRUCTED DURING THE WORK.
- THE CONTRACTOR SHALL REGULATE DISCHARGES AND PHASE CONSTRUCTION SO THAT CONSTRUCTION MATERIAL DOES NOT PASS THROUGH FLOWING WATER.
- ANY NECESSARY COFFERDAMS AND DIVERSIONS SHALL BE DESIGNED BY THE CONTRACTOR AND BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS. APPROVAL BY THE OWNER AND ENGINEER IS REQUIRED PRIOR TO INSTALLATION. ALL DIVERSIONS SHALL BE INSTALLED AND REMOVED IN THEIR ENTIRETY AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN A STOCKPILE OF MATERIAL ONSITE TO BE UTILIZED TO STABILIZE THE EXCAVATION IN THE EVENT OF HIGH WATER OR OTHER CONDITIONS WHICH MAY COMPROMISE THE COFFERDAM STABILITY. THE STOCKPILE SHALL BE MAINTAINED IN ACCORDANCE WITH A FLOOD EMERGENCY RESPONSE PLAN TO BE DEVELOPED BY THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER AND OWNER.
- WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY UTILIZE WATER WITHDRAWALS FROM THE IMPOUNDMENT FOR THE PURPOSES OF LOAM AND SEED OPERATIONS AND MAINTENANCE, DUST CONTROL, EARTHWORK OPERATION, AND CONCRETE AND MORTAR MIXING. SUCH WATER SHALL NOT BE USED FOR THE FOLLOWING BUT NOT LIMITED TO: EQUIPMENT WASH DOWN, MAINTENANCE (E.G. CONCRETE WASHOUT, EXTERIOR CLEANING, OR TRACK WASH DOWN), OR WASHING STONE OR STRIPPED MATERIALS.

CONSTRUCTION SEQUENCE:

THE FOLLOWING SEQUENCE IS INTENDED TO BE GENERAL IN NATURE AND SHALL NOT BE CONSIDERED DIRECTION BY THE ENGINEER OR THE OWNER. ALTHOUGH IT IS LIKELY THAT SOME OF THE WORK ITEMS WILL OVERLAP, CONSTRUCTION SEQUENCES FOR THE VARIOUS PROJECT COMPONENTS ARE DESCRIBED SEPARATELY AND MAY NOT NECESSARILY PROCEED IN CONSECUTIVE ORDER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.

- PRIOR TO CONTRACTOR'S MOBILIZATION:
 - TOWN WILL REMOVE THE GATE POST AT THE SITE ENTRANCE AND STOCKPILE ONSITE (TO BE RESET AT PROJECT COMPLETION BY CONTRACTOR). TOWN WILL INSTALL THE STABILIZED CONSTRUCTION ACCESS PAD AS SHOWN ON THE DRAWINGS.
 - INITIAL DEBRIS REMOVAL / POND DRAWDOWN: TOWN WILL REMOVE ACCUMULATED DEBRIS FROM THE SPILLWAY CREST PRIOR TO CONTRACTOR MOBILIZATION. TOWN WILL REMOVE THE TOP 2 FEET± OF STONES FROM A PORTION OF THE SPILLWAY TO INITIATE DRAWDOWN. TOWN WILL NOT BE RESPONSIBLE FOR MAINTAINING THE SPILLWAY CLEAR UPON COMPLETION OF DEBRIS REMOVAL.
 - CLEARING: TOWN WILL CLEAR AND REMOVE SMALL TREES (3-INCH DBH) AND BRUSH FROM THE LIMITS OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL GRUBBING REQUIRED FOR TREES MARKED TO BE CLEARED, AS WELL AS DISPOSAL OF THE ROOTS AND STUMPS.
- MOBILIZE TO THE SITE; ESTABLISH ACCESS WAYS AND STAGING AREAS. FURNISH AND INSTALL THE TEMPORARY WETLAND CROSSING.
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES.
- INSTALL CONTROL OF WATER DEVICES INCLUDING DIVERSIONS; COMMENCE IMPOUNDMENT DRAWDOWN
 - INSTALL DIVERSION PIPE
 - INSTALL TEMPORARY UPSTREAM AND TAILWATER COFFERDAMS
- COMPLETE REMOVAL OF THE DAM:
 - DEMOLISH THE STONE MASONRY SPILLWAY SECTION; IMPLEMENT DRAWDOWN
 - SEQUENTIALLY DEMOLISH SPILLWAY TO IMPLEMENT DRAWDOWN IN ACCORDANCE WITH ALLOWABLE DRAW DOWN RATE; STOCKPILE STONE FOR REUSE
 - EXCAVATE UPSTREAM SOILS AS REQUIRED TO IMPLEMENT DRAWDOWN DURING SPILLWAY DEMOLITION
 - EXCAVATE TO PROPOSED GRADES AND LINES TO CREATE THE PROPOSED CHANNEL
 - REMOVE BOULDERS; STOCKPILE FOR REUSE
 - REMOVE CONCRETE (IF ANY) AND UNSUITABLE MATERIAL; DISPOSE OF OFFSITE
 - MATERIAL TRUCKING & DISPOSAL: TOWN WILL PROVIDE TRUCKING AND DISPOSAL FOR STONE MASONRY, EARTH FILL, AND ORGANIC MATERIALS RESULTING FROM EMBANKMENT EXCAVATION AND BREACH CREATION. CONTRACTOR SHALL SEGREGATE MATERIALS PRIOR TO LOADING INTO TOWN TRUCK. CONTRACTOR SHALL ASSUME THAT THE TOWN WILL PROVIDE ONE 12.5 TON DUMP TRUCK WITH A ROUND TRIP TRAVEL TIME TO THE DISPOSAL FACILITY OF 30 MINUTES OPERATING DURING NORMAL BUSINESS HOURS ONLY.
 - INSTALL BANK PROTECTION RIVER RIGHT; PLACE STOCKPILED BOULDERS WHERE INDICATED; ESTABLISH VEGETATION WITHIN CHANNEL AS INDICATED ON PLAN.
 - REMOVE COFFERDAMS; DIVERT FLOW TO CONSTRUCTED CHANNEL AND REMOVE DIVERSION PIPE
 - COMPLETE EXCAVATION OF THE EMBANKMENT TO THE LIMITS SHOWN
- SITE FINISHING AND DEMOBILIZATION:
 - INSTALL OTHER SURFACE FINISHED AS SPECIFIED (I.E. PLANTINGS, SHRUB, COIR LOGS, LOAM, SEED, ETC.)
 - UNLESS OTHERWISE NOTED, INSTALL LOAM AND ESTABLISH GRASS IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
 - RESTORE SITE ACCESS WAYS INCLUDING GRADING IMPROVEMENTS, EROSION CONTROL, WETLAND AREA RESTORATION, AND STABILIZATION.
 - DEMOBILIZE.

LEGEND

EXISTING	PROPOSED
-----	STATE HIGHWAY LINE
-----	EASEMENT BOUNDARY
---52---	1' CONTOUR
---55---	5' CONTOUR
-----	EDGE OF PAVEMENT
-----	CURBING
-----	EDGE OF GRAVEL
-----	EDGE OF WATER
-----	STONE MASONRY WALL
-----	FENCE
-----	GUARD RAIL
-----	TREELINE
-----	UTILITY POLE
-----	OVERHEAD WIRE
-----	STRAW BALES
-----	SILT FENCE
-----	COFFER DAM
-----	TURBIDITY BARRIER
-----	LIMIT OF DISTURBANCE



SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

Carpenter Pond Dam Removal
 MA0020
 Dudley, Massachusetts
 Town of Dudley, Massachusetts

ABBREVIATIONS

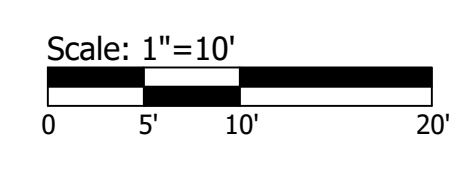
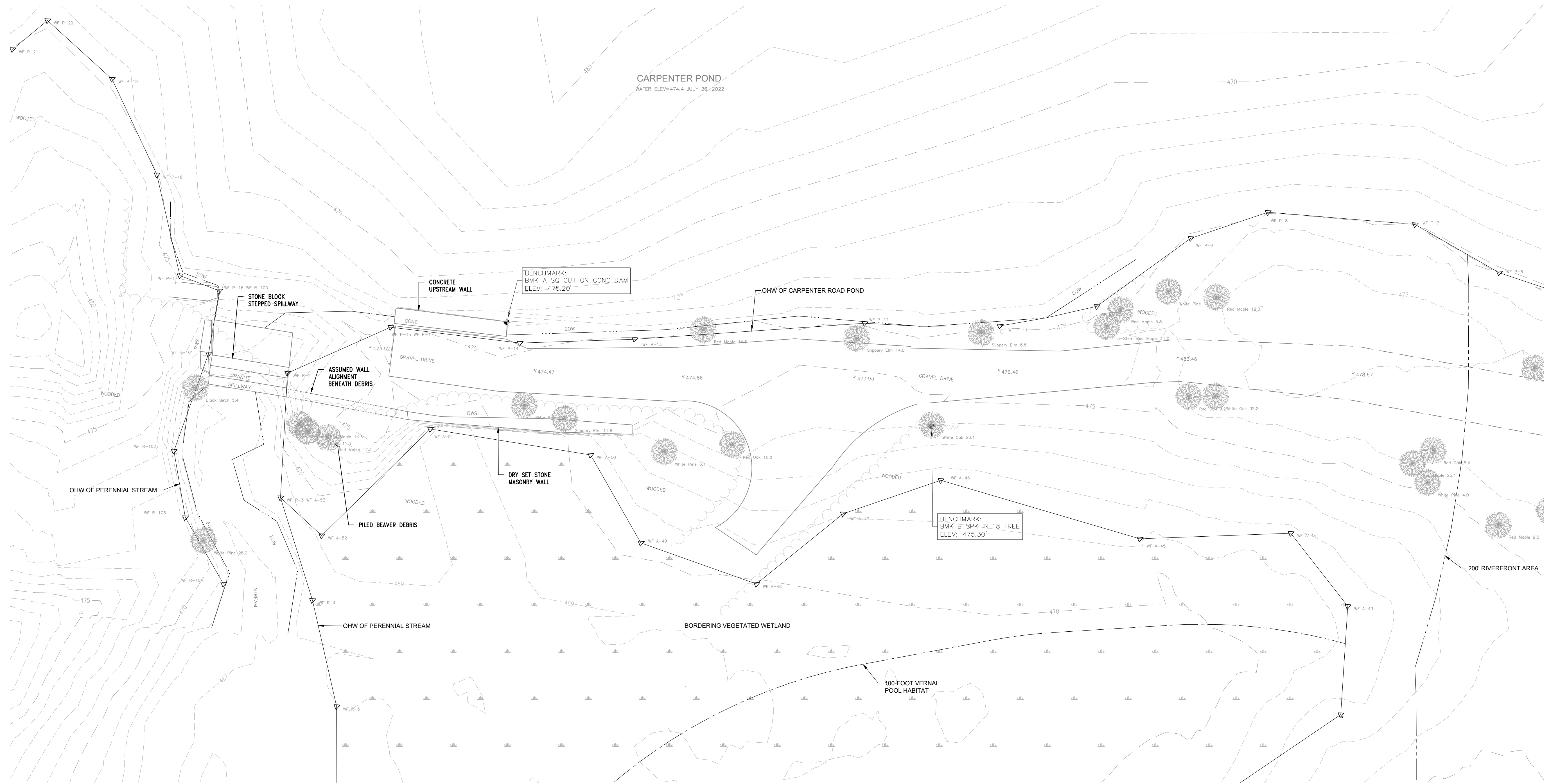
ABAN	ABANDON
CD1	COFFER DAM ORIENTATION NO. 1
CD2	COFFER DAM ORIENTATION NO. 2
CD1&2	COFFER DAM PRESENT DURING ORIENTATION NOS. 1 AND 2
LOD	LIMIT OF DISTURBANCE
R&D	REMOVE & DISPOSE
SILT	SILT FENCE
STRAW	STRAW BALES
TB	TURBIDITY BARRIER
D/S	= DOWNSTREAM
U/S	= UP STREAM
EMB	= EMBANKMENT
ENG	= ENGINEERED
CP	= CONTROL POINT

REVISIONS:	
PROJECT NO.:	22116.00
DATE:	APRIL 2026
SCALE:	AS NOTED
DESIGNED BY:	ARO
CHECKED BY:	VFD / ARO
DRAWN BY:	LMC
APPROVED BY:	ARO
DRAWING TITLE:	

NOTES AND LEGEND
DRAWING NO.: **1.0**
SHEET NO. 2 OF 11

Y:\085122\085122116.00_Dudley-CarpenterPond_Dam_Removal-MA.dwg 11.0 NOTES AND LEGEND.dwg

Carpenter Pond Dam Removal
MA0020
Dudley, Massachusetts
Town of Dudley, Massachusetts



REVISIONS:

PROJECT NO.:	22116.00
DATE:	APRIL 2026
SCALE:	AS NOTED
DESIGNED BY:	ARO
CHECKED BY:	VFD / ARO
DRAWN BY:	LMC
APPROVED BY:	ARO
DRAWING TITLE:	EXISTING SITE PLAN

DRAWING NO.:	2.1
SHEET NO.:	4 OF 11

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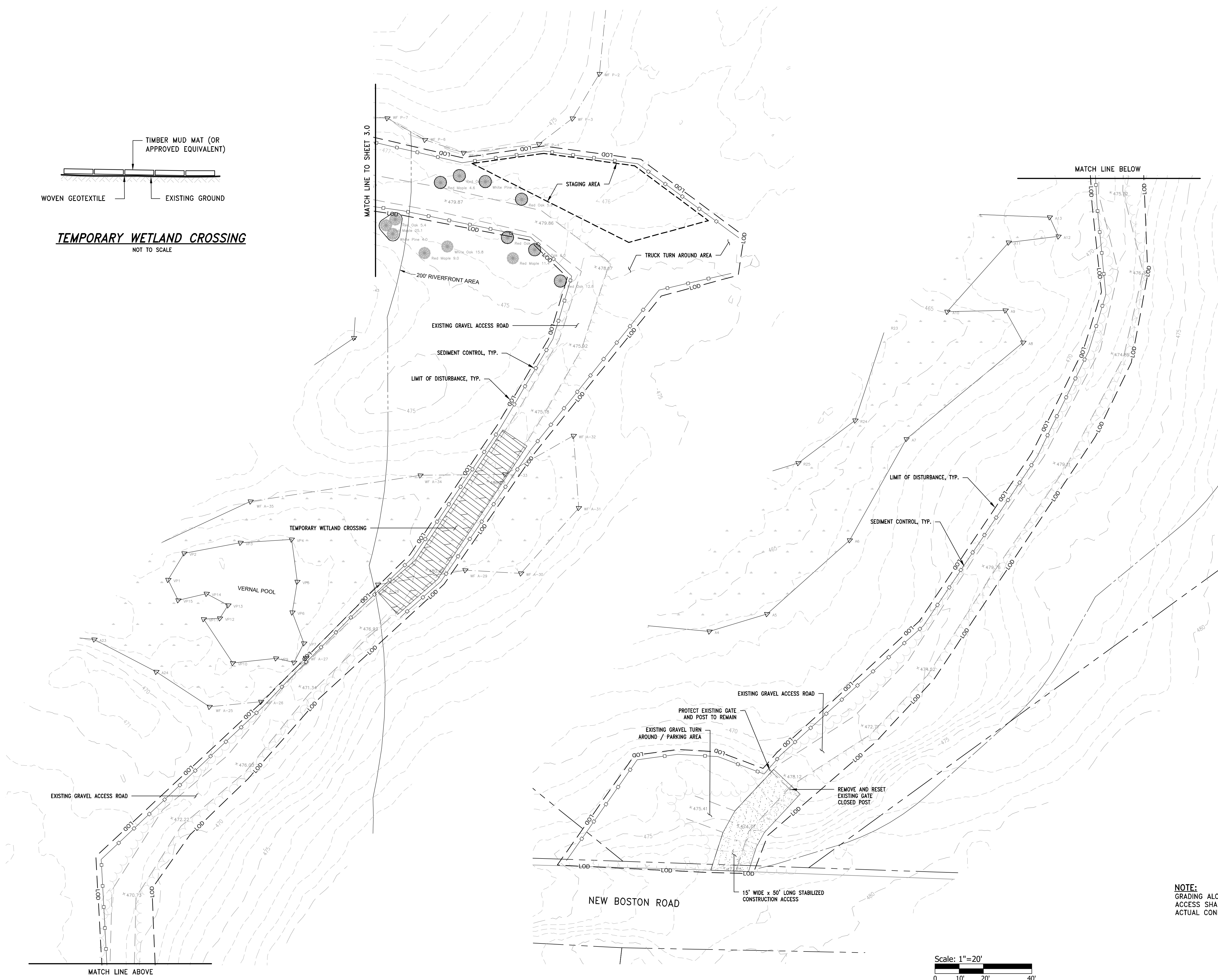
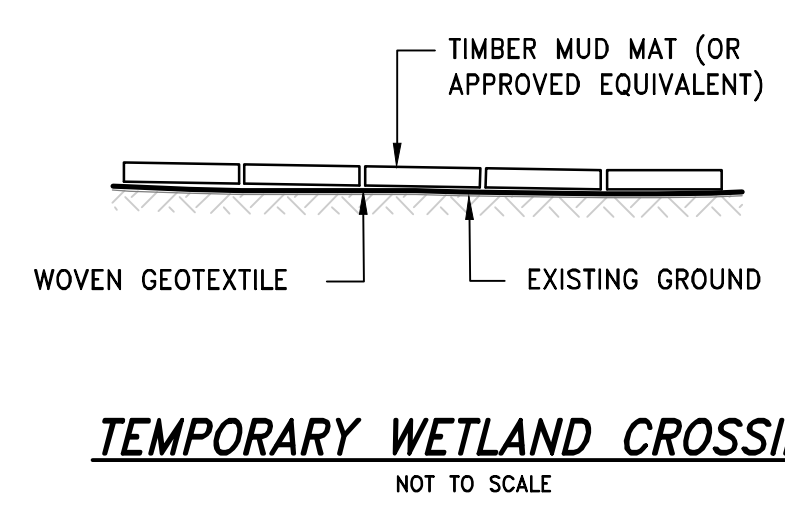
Carpenter Pond Dam Removal

MA00020
Dudley, Massachusetts
Town of Dudley, Massachusetts

REVISIONS:

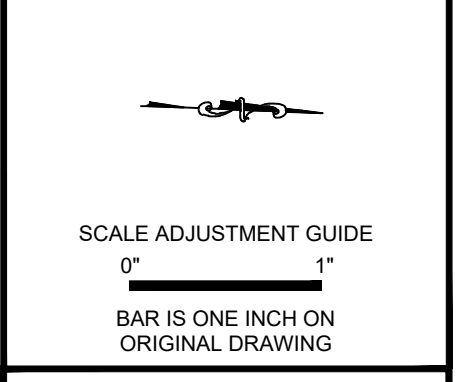
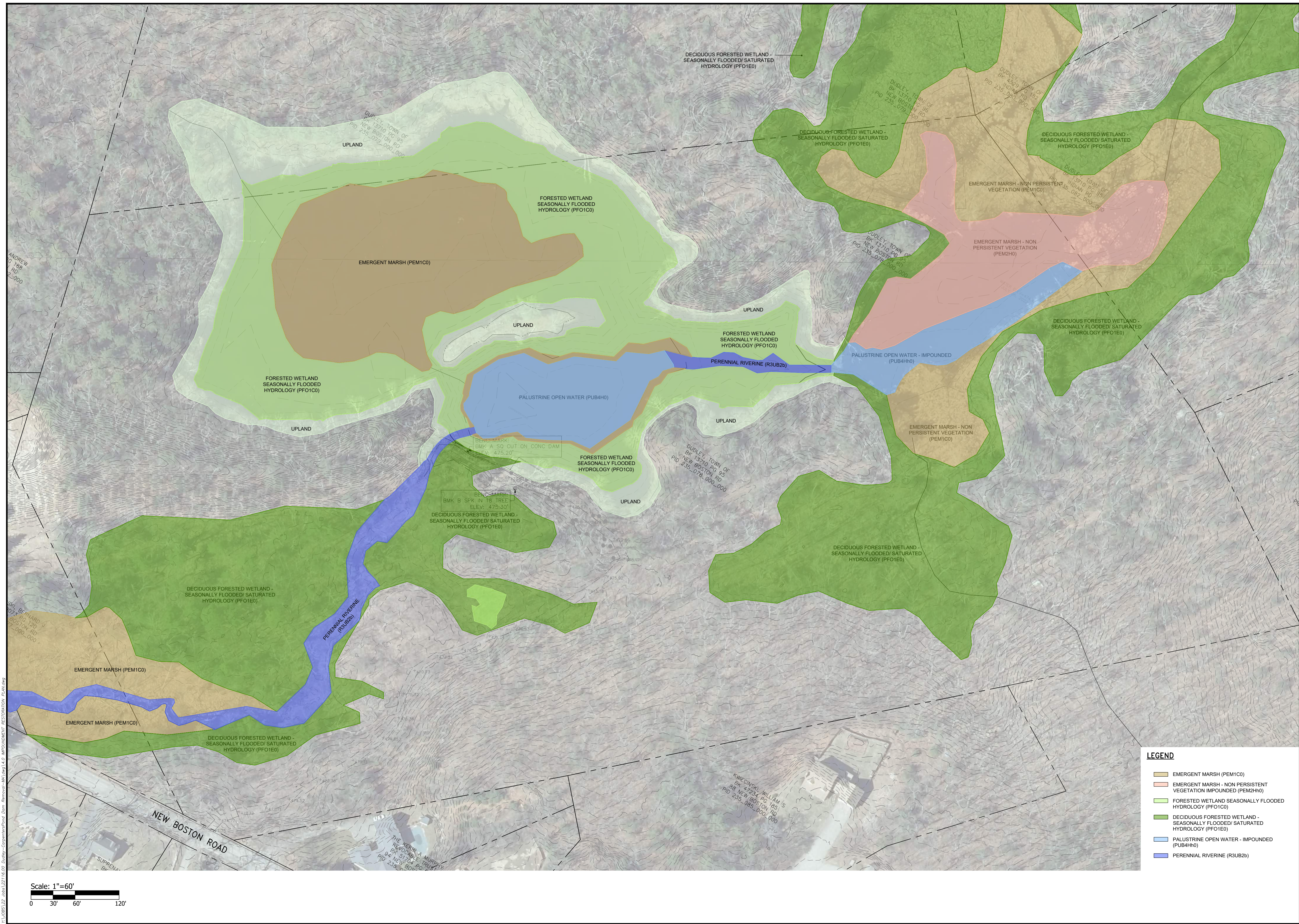
NO.	DATE	DESCRIPTION

PROJECT NO.: 22116.00
DATE: APRIL 2026
SCALE: AS NOTED
DESIGNED BY: ARO
CHECKED BY: VFD / ARO
DRAWN BY: LMC
APPROVED BY: ARO
DRAWING TITLE:



NOTE:
GRADING ALONG ACCESS WAYS IS BASED UPON LIDAR DATA. ACCESS SHALL BE ADAPTED AS REQUIRED TO ACCOMMODATE ACTUAL CONDITIONS.

X:\PROJECTS\22_000\22116.00_Dudley-CarpenterPond_Dam_Removal\MA\Lang.L.T. SITE_ACCESS_PLAN.dwg



Carpenter Pond Dam Removal

MA0020
Dudley, Massachusetts
Town of Dudley, Massachusetts

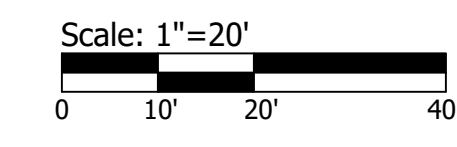
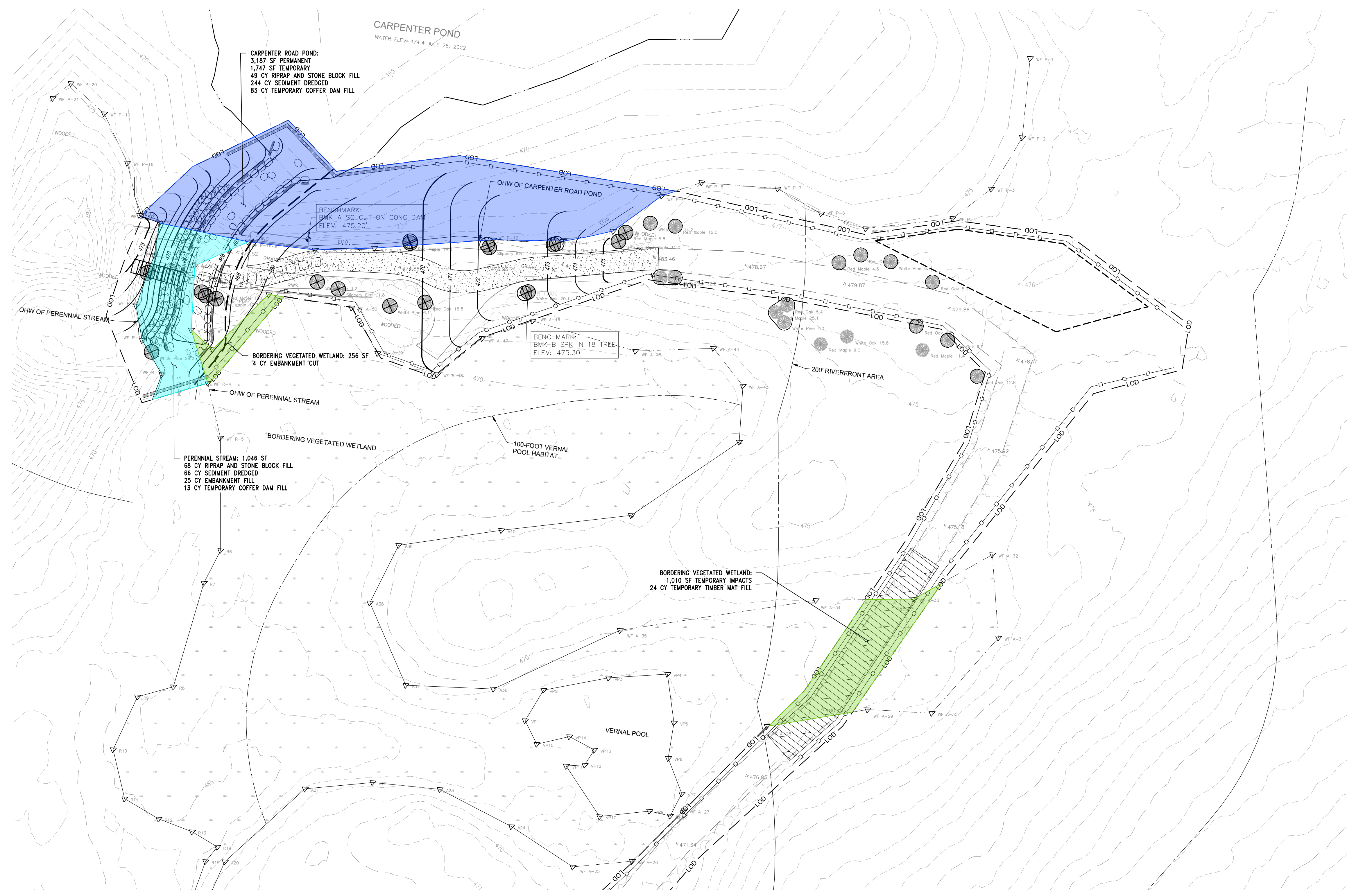
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PROJECT NO.:	22116.00
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SCALE:	AS NOTED
DESIGNED BY:	ARO
CHECKED BY:	VFD / ARO
DRAWN BY:	LMC
APPROVED BY:	ARO
DRAWING TITLE:	IMPOUNDMENT RESTORATION PLAN
DRAWING NO.:	4.0
SHEET NO.:	8 OF 11

LEGEND

- EMERGENT MARSH (PEM1C0)
- EMERGENT MARSH - NON PERSISTENT VEGETATION IMPOUNDED (PEM2H0)
- FORESTED WETLAND SEASONALLY FLOODED HYDROLOGY (PFO1C0)
- DECIDUOUS FORESTED WETLAND - SEASONALLY FLOODED/ SATURATED HYDROLOGY (PFO1E0)
- PALUSTRINE OPEN WATER - IMPOUNDED (PUB4H0)
- PERENNIAL RIVERINE (R3UB2b)

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LEGEND

- BORDERING VEGETATIVE WETLAND IMPACTS
- PERENNIAL STREAM IMPACTS
- POND IMPACTS

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SCALE ADJUSTMENT GUIDE
 0" 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING

Carpenter Pond Dam Removal

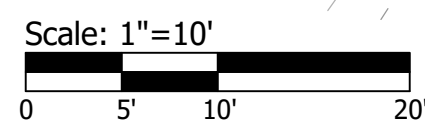
MA0020
 Dudley, Massachusetts
 Town of Dudley, Massachusetts

REVISIONS:	

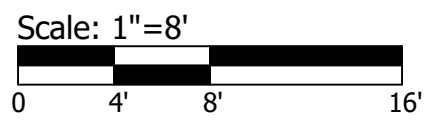
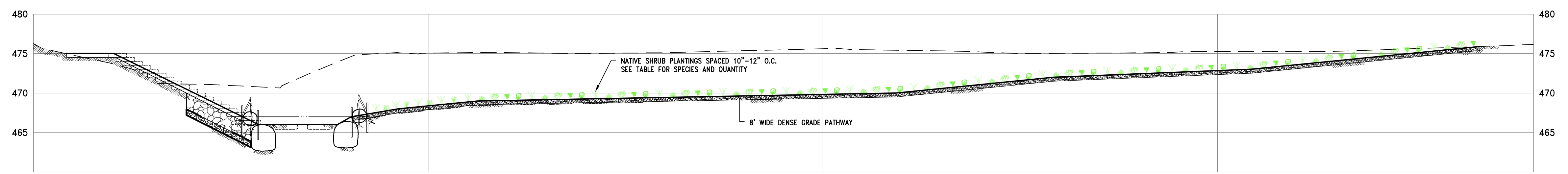
PROJECT NO.:	22116.00
DATE:	APRIL 2026
SCALE:	AS NOTED
DESIGNED BY:	ARO
CHECKED BY:	VFD / ARO
DRAWN BY:	LMC
APPROVED BY:	ARO
DRAWING TITLE:	

WETLAND IMPACT PLAN

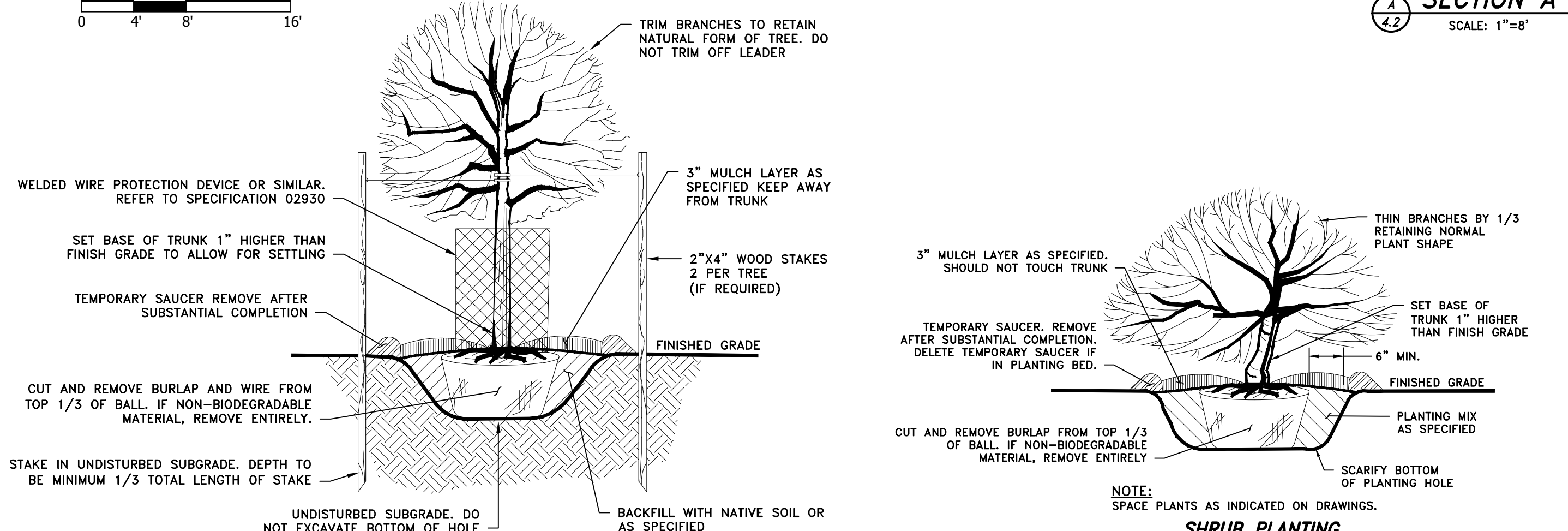
DRAWING NO. **4.1**
 SHEET NO. 9 OF 11



RESTORATION PLANTING PLAN
SCALE: 1"=10'±



SECTION A
SCALE: 1"=8'



- NOTES:**
- DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
 - WATER THOROUGHLY AFTER INSTALLATION.
 - REMOVE SAUCER AND STAKES TWO YEARS OR LESS AFTER INSTALLATION.
 - PROVIDE DRAINAGE FOR PLANTING PIT IF IN IMPERMEABLE SOIL.

SPECIES	QUANTITY	SIZE	SPACING
ACER RUBRUM	25	2 GALLON	10'-12' O.C.
CLETHRA ALNIFOLIA	25	1 GALLON	10'-12' O.C.
LINDERA BENZOIN	25	1 GALLON	10'-12' O.C.
VACCINIUM CORYMBOSUM	25	1 GALLON	10'-12' O.C.
SALIX SPP. TUBELINGS	50	PLUGS	10'-12' O.C.
LIVE STAKES (SALIX SPP.)	300	VARIABLE	1' O.C.
WETLAND SEED MIX*	2 LBS.	3,000 S.F.	THROUGHOUT
CONSERVATION WILDLIFE MIX**	2 LBS.	3,200 S.F.	THROUGHOUT
EROSION CONTROL MIX***	2 LBS.	1,500 S.F.	THROUGHOUT

* NEW ENGLAND WETLAND PLANTS WETMIX OR APPROVED EQUIVALENT.
 ** NEW ENGLAND WETLAND PLANTS CONSERVATION WILDLIFE MIX OR APPROVED EQUIVALENT.
 *** NEW ENGLAND WETLAND PLANTS EROSION CONTROL/RESTORATION MIX FOR DRY SITES OR APPROVED EQUIVALENT.

NOTES

- REMOVE DEBRIS FROM PLANTING AREAS.
- THOROUGHLY SCARIFY SOILS TO A MINIMUM DEPTH OF 8 INCHES PRIOR TO SEEDING AND PLANTING TO AERATE AND LOOSEN COMPACTED SOILS.
- THE RESTORATION AREA SHALL BE PLANTED WITH NATIVE PLANTINGS SPECIFIED IN THE PLANTING TABLE. SAPLINGS SHALL BE PLANTED AT AN AVERAGE OF 12' ON CENTER. SHRUBS SHALL BE PLANTED AT AN AVERAGE OF 10'-12' ON CENTER TO MIMIC NATURAL SURROUNDINGS. LIVE STAKES AND TUBELINGS SHALL BE PLANTED ALONG THE TOE OF STREAM BANK SLOPES.
- A NEW ENGLAND WETLAND SEED MIX SHALL BE APPLIED TO BVW AREAS. A NEW ENGLAND CONSERVATION/WILDLIFE MIX SHALL BE APPLIED TO UPLAND AREAS. AN EROSION CONTROL MIX SHALL BE APPLIED TO SLOPES GREATER THAN 3H:1V.
- CONTRACTOR SHALL LAYOUT PLANTINGS FOR APPROVAL BY THE ENGINEER.



SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

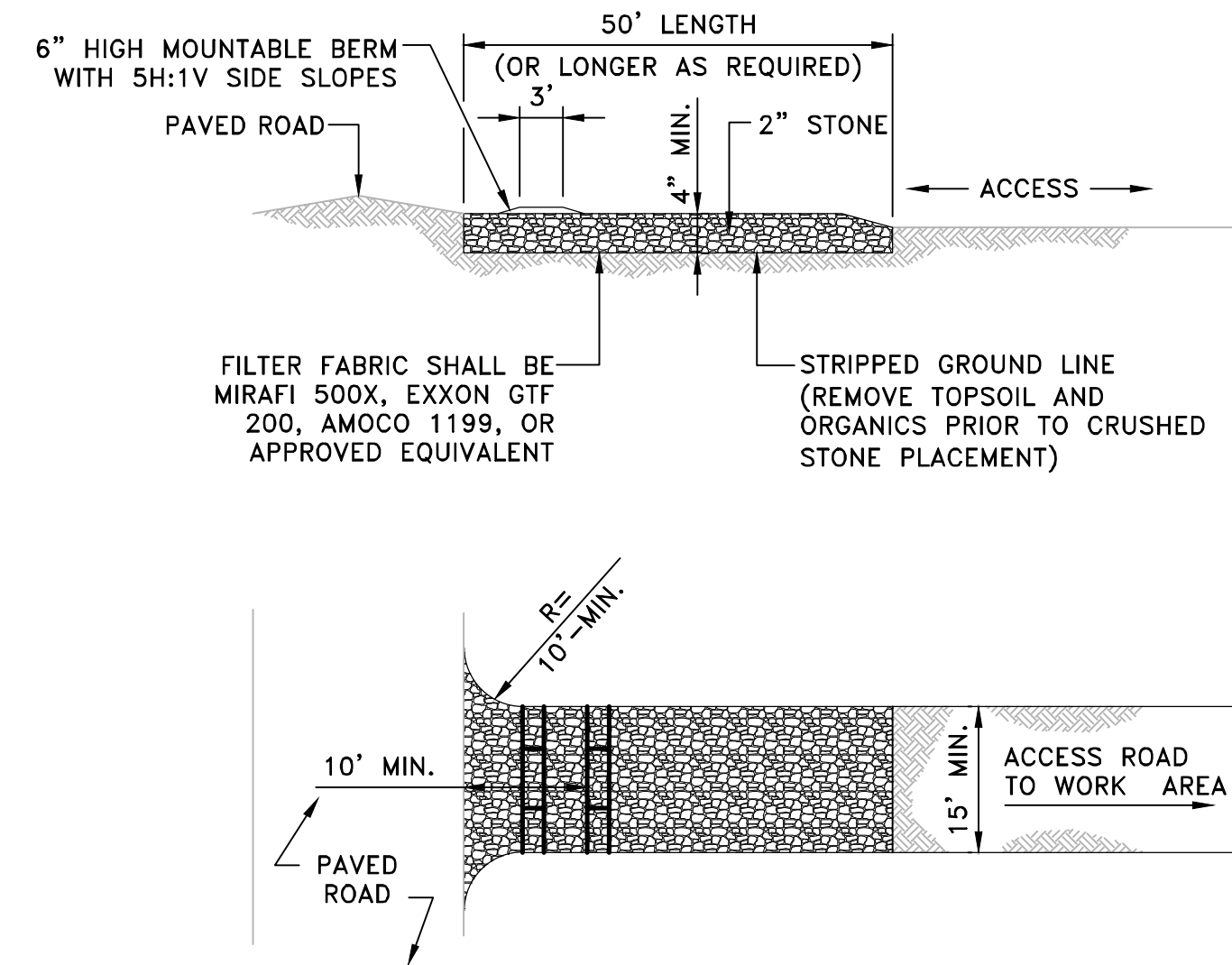
Carpenter Pond Dam Removal
MA0020
Dudley, Massachusetts
Town of Dudley, Massachusetts

REVISIONS:

PROJECT NO.: 22116.00
 DATE: APRIL 2026
 SCALE: AS NOTED
 DESIGNED BY: ARO
 CHECKED BY: VFD / ARO
 DRAWN BY: LMC
 APPROVED BY: ARO
 DRAWING TITLE:

RESTORATION PLANTING PLAN

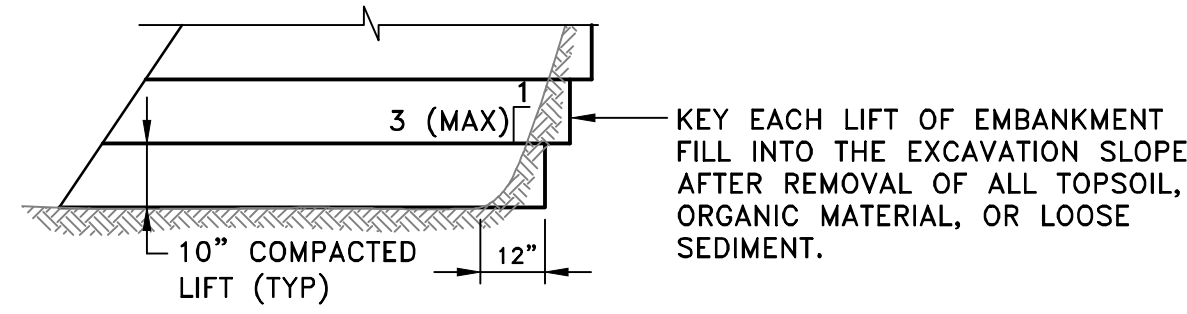
DRAWING NO.: 4.2
 SHEET NO. 10 OF 11



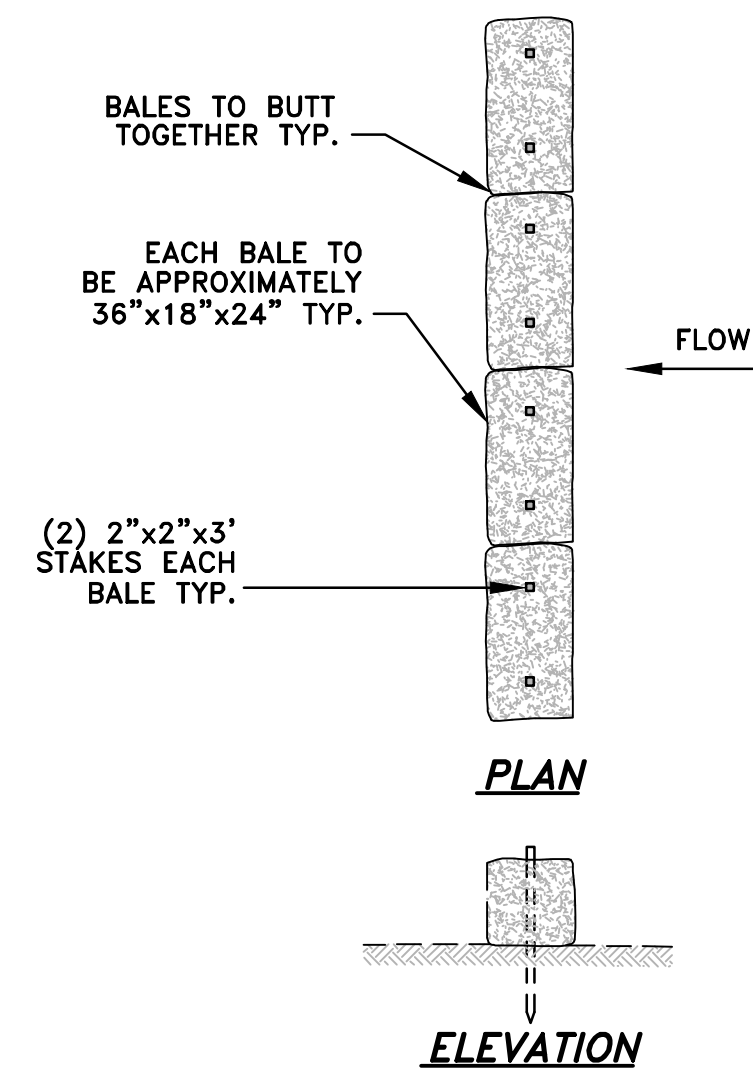
NOTES:

1. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO LOCAL STREETS.
2. BEFORE INSTALLATION, THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, PAVEMENT AND OTHER OBJECTIONABLE MATERIAL TO THE DIMENSIONS SHOWN.
3. PLACE WOVEN CONSTRUCTION FABRIC ON SUB GRADE PRIOR TO GRAVEL PLACEMENT.
4. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE STREET. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.
5. AT PROJECT COMPLETION, CONTRACTOR SHALL GRADE STONE PAD TO EVEN SURFACE. STONE AND FABRIC TO REMAIN POST CONSTRUCTION.

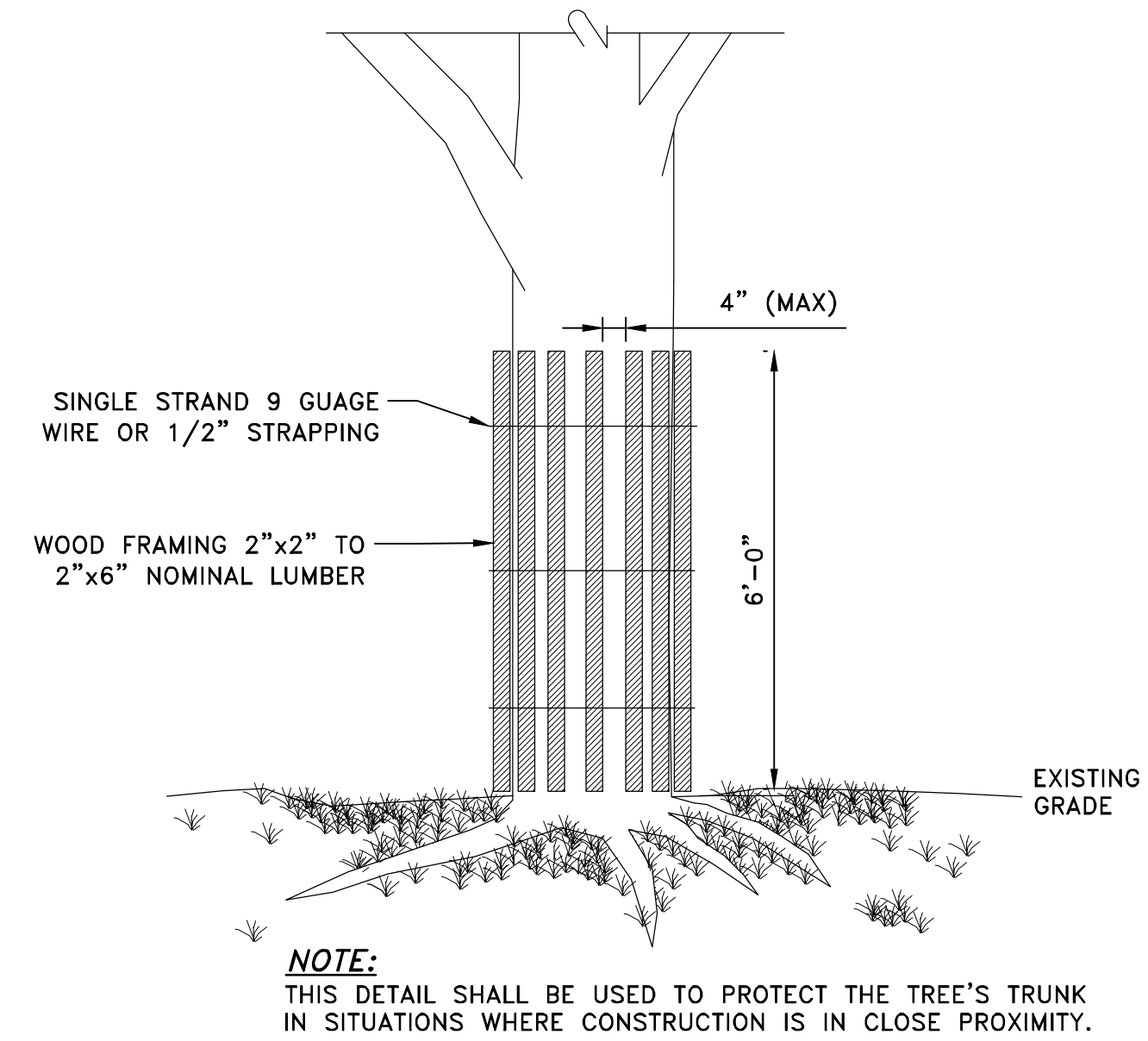
STABILIZED CONSTRUCTION ACCESS
NOT TO SCALE



PLACEMENT OF EMBANKMENT MATERIALS
NOT TO SCALE

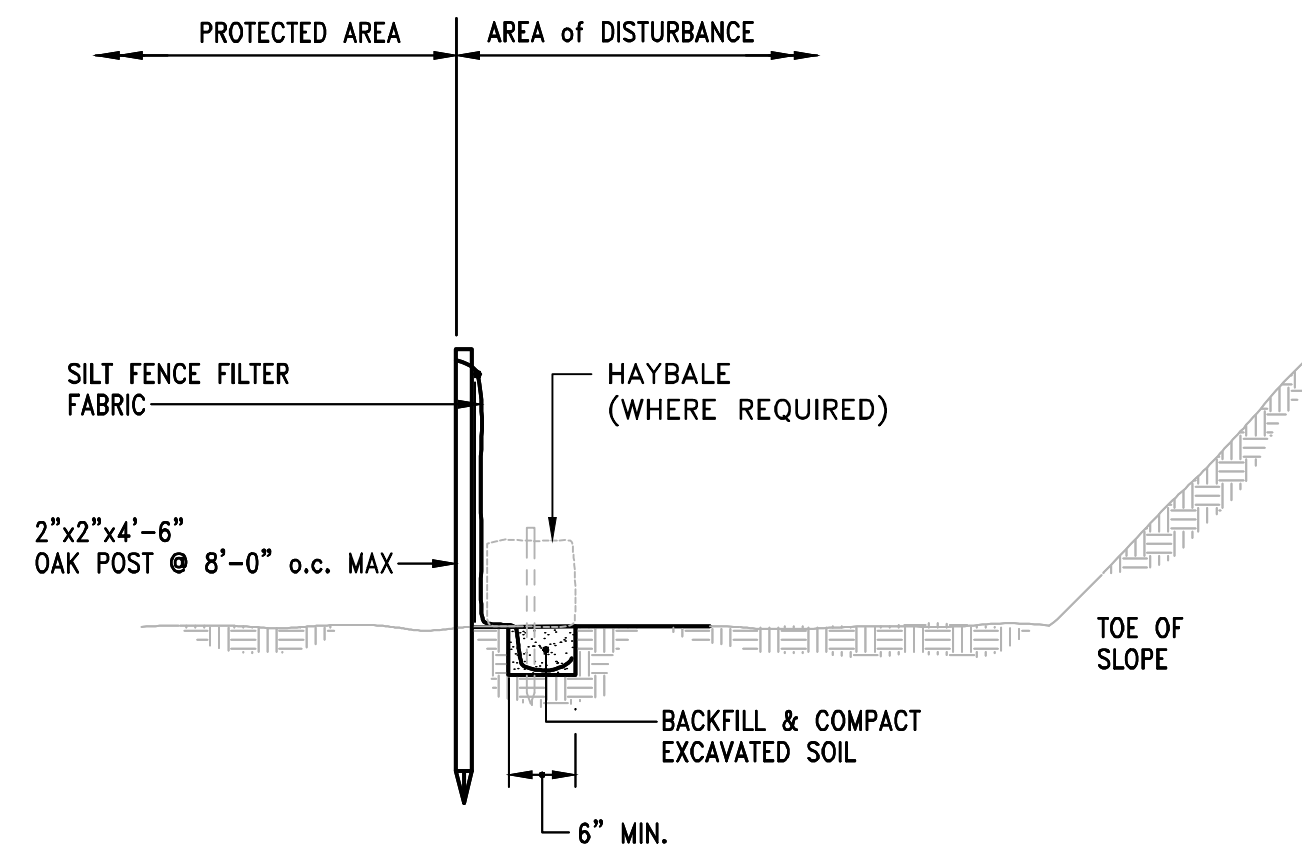


STRAW BALE DETAIL
NOT TO SCALE



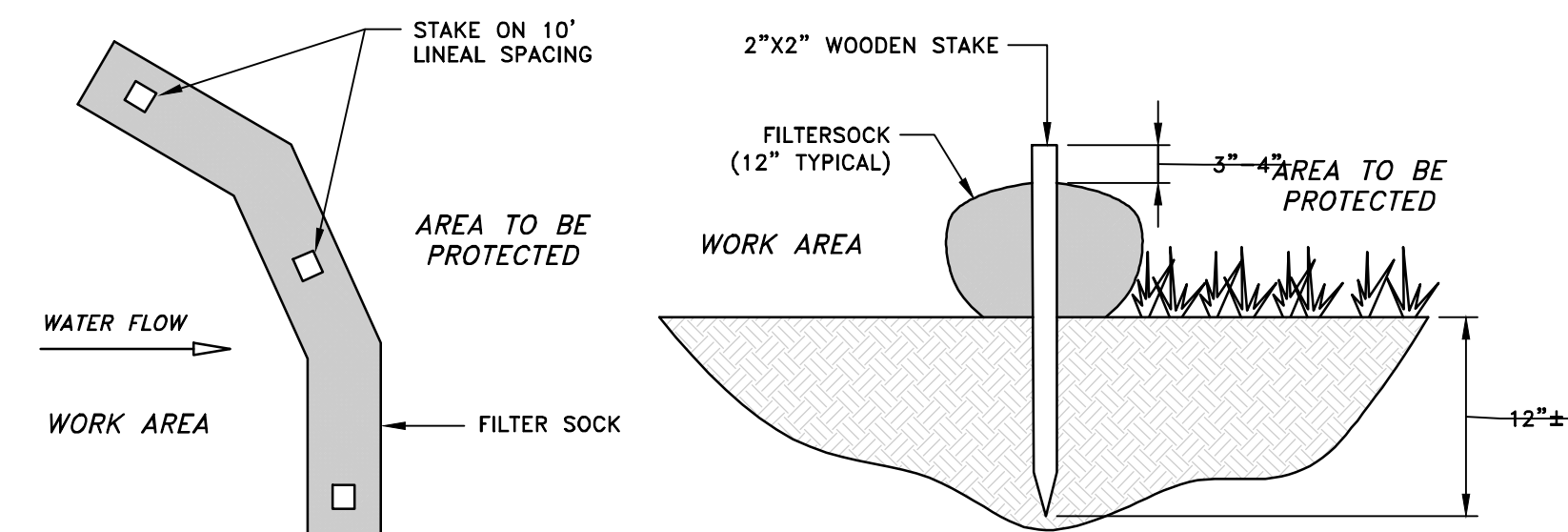
NOTE:
THIS DETAIL SHALL BE USED TO PROTECT THE TREE'S TRUNK IN SITUATIONS WHERE CONSTRUCTION IS IN CLOSE PROXIMITY.

TREE PROTECTION DEVICE
NOT TO SCALE



NOTE:
SILT FENCE FABRIC SHALL NOT BE SLIT. STRAW BALE POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC.

SILT FENCE DETAIL
NOT TO SCALE



FILTER SOCK NOTES:

1. COMPOST / SOIL / ROCK / SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

FILTER SOCK DETAIL
NOT TO SCALE

Carpenter Pond Dam Removal
MA00020
Dudley, Massachusetts
Town of Dudley, Massachusetts

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 22116.00
DATE: APRIL 2026
SCALE: AS NOTED
DESIGNED BY: ARO
CHECKED BY: VFD / ARO
DRAWN BY: LMC
APPROVED BY: ARO
DRAWING TITLE:

MISCELLANEOUS DETAILS

DRAWING NO.: 5.0
SHEET NO. 11 OF 11