

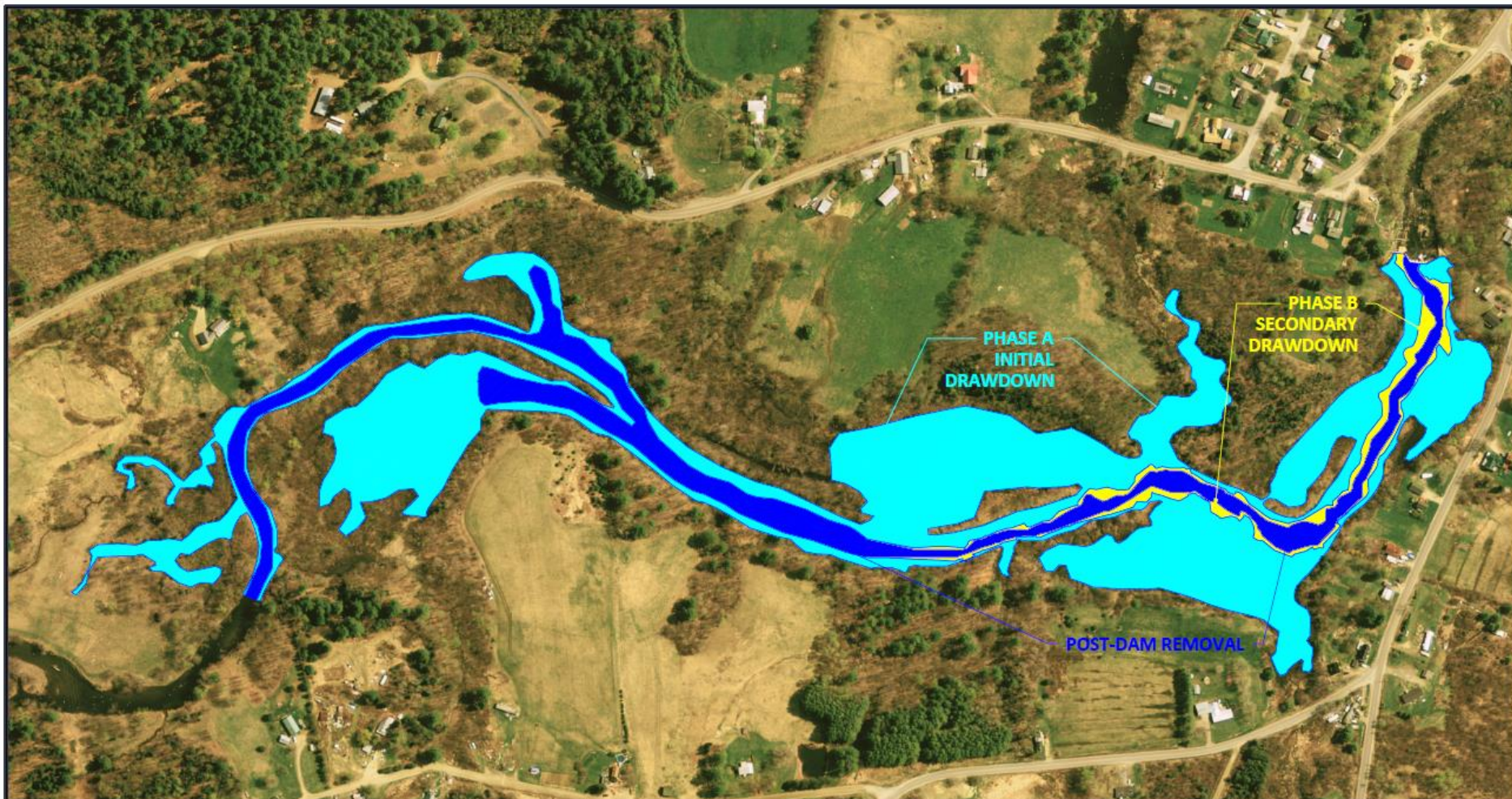
Walton's Mill Dam Removal and Park Improvement Project





3'
diameter
orifice
sluice gate





ACW

ANALYSIS & CONSULTING
WATER RESOURCES

(207) 249-9340
PO Box 212
Leeds, Maine
www.acwinc.com

WALTON'S MILL DAM REMOVAL
TEMPLE STREAM

FARMINGTON
MAINE

DRAFT

SCALE:
1 INCH = 300 FEET

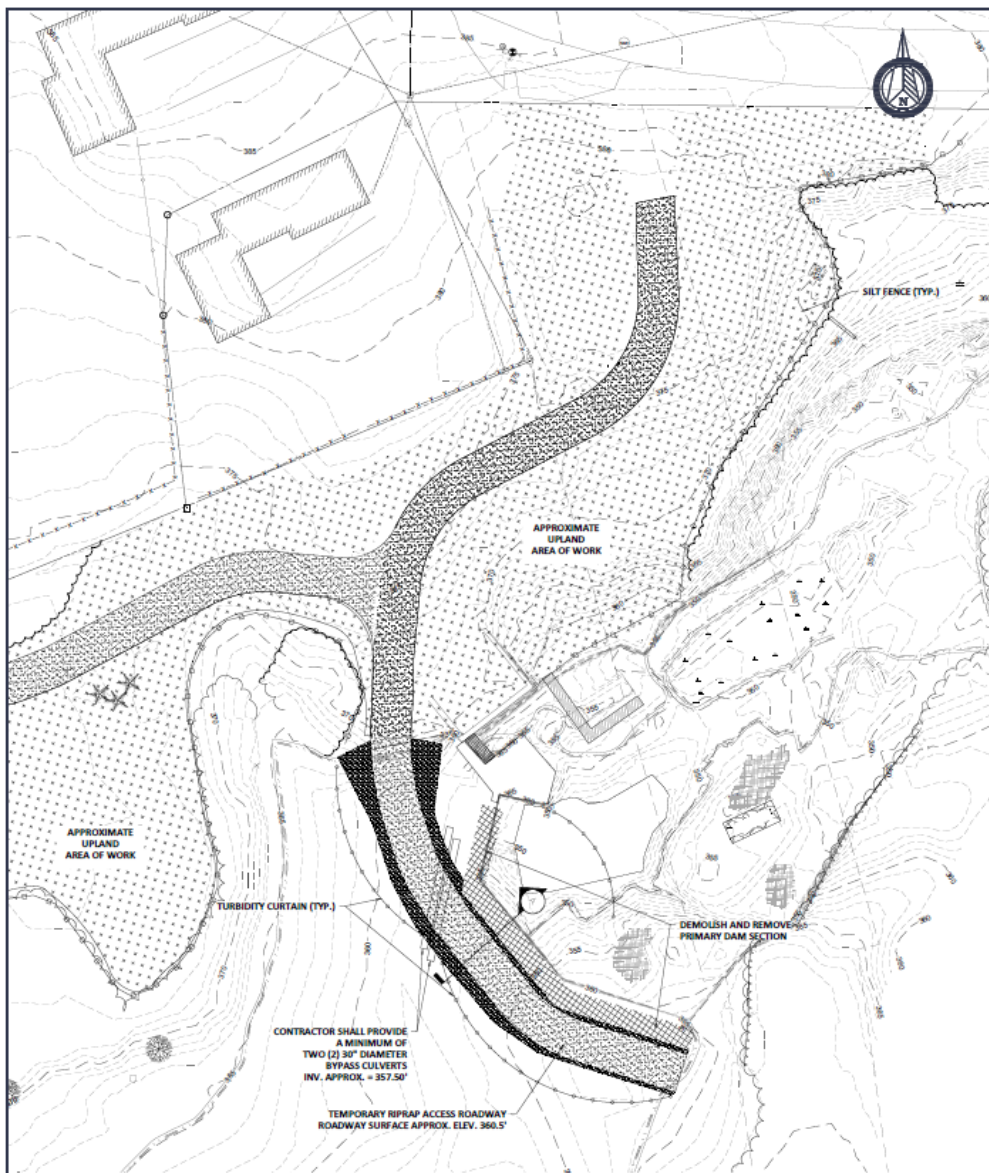
PROJECT NO. 18010

IMPOUNDMENT DRAWDOWN MAP

DATE: JUNE 2020

FIGURE
SK-2

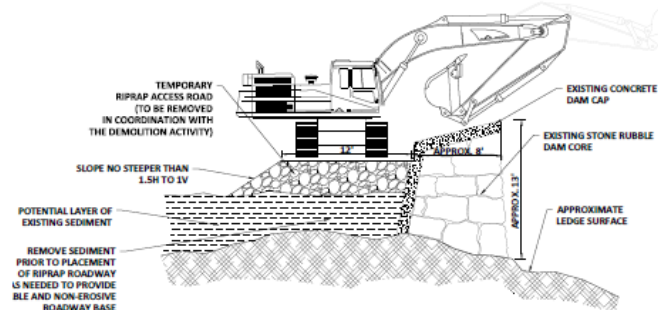




PHASE 2 - DAM REMOVAL PLAN
1" = 20'

PHASE 2 - DEMOLITION SEQUENCE:

1. PHASE 2 ACTIVITIES MAY NOT COMMENCE PRIOR TO JULY 15TH.
2. COMMENCE CONSTRUCTION OF RIPRAP ACCESS ROAD WAY.
3. PLACE TWO (2) 30" DIAMETER CULVERTS AT INVERT ELEVATION 357.5 TO PROVIDE BYPASS FLOW THROUGH THE RIPRAP ACCESS ROADWAY.
4. COMMENCE INSTALLATION OF TURBIDITY CURTAINS TO ACCOMMODATE IN WATER WORK.
5. CONTINUE RIPRAP ROADWAY CONSTRUCTION OVER BYPASS CULVERTS AND ALONG THE UPSTREAM FACE OF THE DAM.
6. RIPRAP ROAD CONSTRUCTION SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE PRIMARY DAM SECTION.
7. COMPLETE INSTALLATION OF TURBIDITY CURTAINS.
8. COMMENCE DEMOLITION OF THE DAM STRUCTURE.
9. COORDINATE WITH ENGINEER AND OWNER TO SORT AND STOCKPILE STONE REMOVED FROM THE DAM FOR LATER REUSE AT THE SITE. MATERIAL NOT INTENDED FOR REUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
10. AS THE DAM IS DEMOLISHED, WATER WILL BEGIN TO BREACH THE DAM ALONG AT THE SOUTHERN END OF THE WORK. THE TURBIDITY CURTAIN AND RIPRAP ROADWAY SHALL BE REMOVED IN COORDINATION WITH THE DAM DEMOLITION ACTIVITIES TO PROVIDE A STEADY AND CONTROLLED BREACH OF THE DAM.
11. CONTINUE DEMOLITION OF THE DAM, ALONG WITH RIPRAP ROAD REMOVAL AND TURBIDITY CURTAIN ADJUSTMENTS TO ENLARGE THE DAM BREACH.
12. ONCE THE ENTIRE PRIMARY DAM SECTION HAS BEEN DEMOLISHED, REMOVE REMAINING RIPRAP ROADWAY STRUCTURE AND BYPASS CULVERTS FROM THE STREAM CHANNEL.
13. PROCEED WITH PHASE 3.



SECTION A
1" = 5'

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NO.	REVISION	DATE

PROGRESS PLOT
PRELIMINARY
08/22/2020

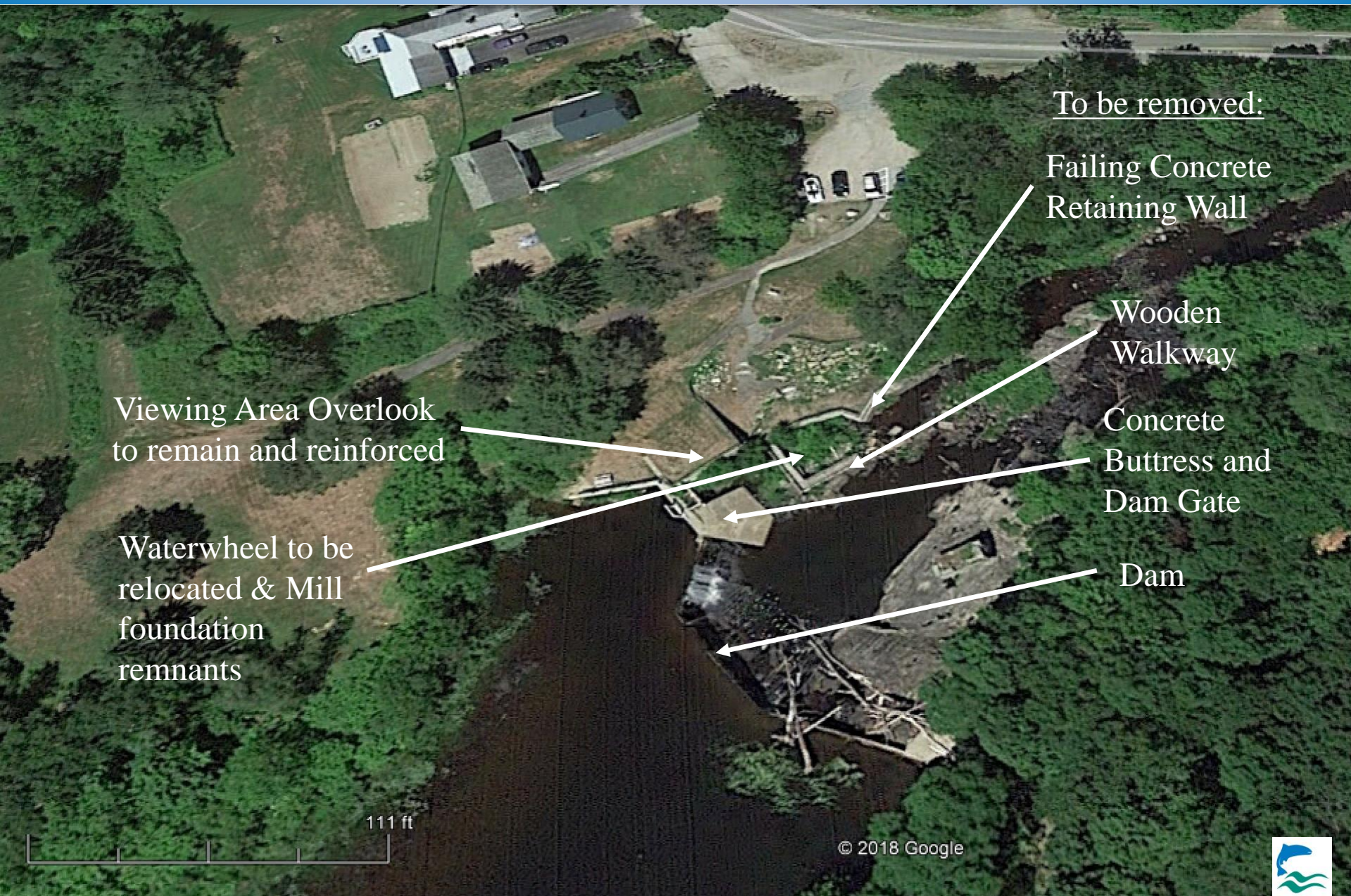
DAM REMOVAL AND PARK REDEVELOPMENT
AT WALTON'S MILL PARK ON TEMPLE STREAM
FARMINGTON, ME
ATLANTIC SALMON FEDERATION
PHASE 2 DAM REMOVAL PLAN
JUNE 2020

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C-801

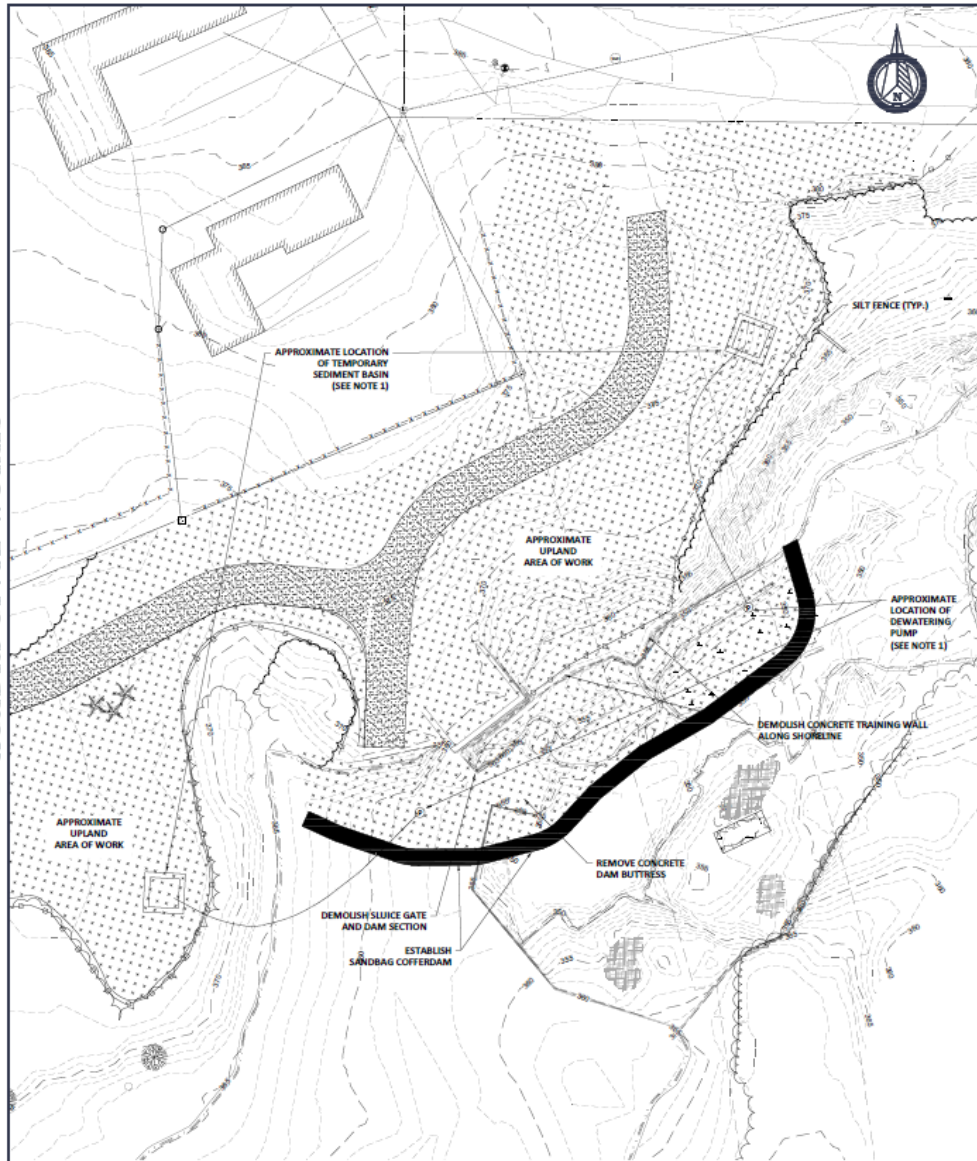


Phase 3 Dam Demolition



Phase 3 Dam Demolition

ACADIA CIVIL WORKS



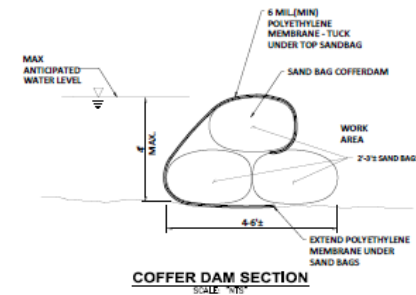
PHASE 3 - DAM REMOVAL PLAN
1" = 20'

PHASE 3 - DEMOLITION SEQUENCE:

1. CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER, AND STATE/FEDERAL FISHERIES AGENCIES TO ENSURE FISH ARE NOT PRESENT IN THE WORK AREA PRIOR TO COMMENCEMENT OF COFFERDAM INSTALLATION.
2. COMMENCE CONSTRUCTION OF TEMPORARY COFFERDAM ALONG SHORELINE.
3. PRIOR TO DEWATERING WITHIN THE COFFERDAM AREA, CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER, AND STATE/FEDERAL FISHERIES AGENCIES TO ENSURE FISH ARE NOT PRESENT IN THE WORK AREA. IF THE COFFERDAM IS SUBSTANTIALLY BREACHED DURING THE COURSE OF PHASE 3 WORK ACTIVITIES, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER AND/OR OWNER. STATE/FEDERAL FISHERIES AGENCIES MAY BE CONTACTED TO ENSURE FISH ARE NOT PRESENT IN THE WORK AREA PRIOR TO SIGNIFICANT DEWATERING EFFORTS.
4. ESTABLISH EROSION AND SEDIMENTATION CONTROL AND DEWATERING MEASURES WITHIN THE COFFER DAM WORK AREA.
5. COMMENCE DEMOLITION OF REMAINING DAM STRUCTURES. THIS INCLUDES THE LARGE CONCRETE BUTTRESS, SLICE GATE SECTION, AND TRAINING WALLS ALONG THE SHORELINE.
6. RECONSTRUCT SHORELINE IN ACCORDANCE WITH STREAM BANK RESTORATION PLANS (SEE SHEETS C-300 AND C-500).
7. UPON COMPLETION OF SHORELINE RECONSTRUCTION AND STABILIZATION MEASURES BELOW ELEVATION 360 FEET, REMOVE DEWATERING MEASURES AND COFFERDAM.
8. ALL WORK IN THE WATER MUST BE COMPLETE BY SEPTEMBER 30TH.

NOTES:

1. SEEPAGE THROUGH THE TEMPORARY SAND BAG COFFER DAM IS LIKELY. DEWATERING WITHIN THE COFFER DAM AREA IS ANTICIPATED. THE PUMPS AND TEMPORARY SEDIMENT BASINS DEPICTED ON THIS PLAN ARE APPROXIMATE. ACTUAL WORKING CONDITIONS AND SEEPAGE RATES MAY REQUIRE MORE OR LESS PUMPS, AS WELL AS MORE OR LARGER TEMPORARY SEDIMENT BASINS. THE SEDIMENT BASIN LOCATIONS SHOWN ARE APPROXIMATE, HOWEVER ALL TEMPORARY SEDIMENT BASINS SHALL BE LOCATED IN UPLAND AREAS.



COFFER DAM SECTION
SCALE: 1" = 10'

ACW

DATE

REVISION

NO.

DATE

NO.

DATE

NO.

DATE

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DATE

NO.

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NO.

DATE

DAM REMOVAL AND PARK REDEVELOPMENT
AT WALTON'S MILL PARK ON TEMPLE STREAM
FARMINGTON, ME
ATLANTIC SALMON FEDERATION
PHASE 3 DAM REMOVAL PLAN
JUNE 2020

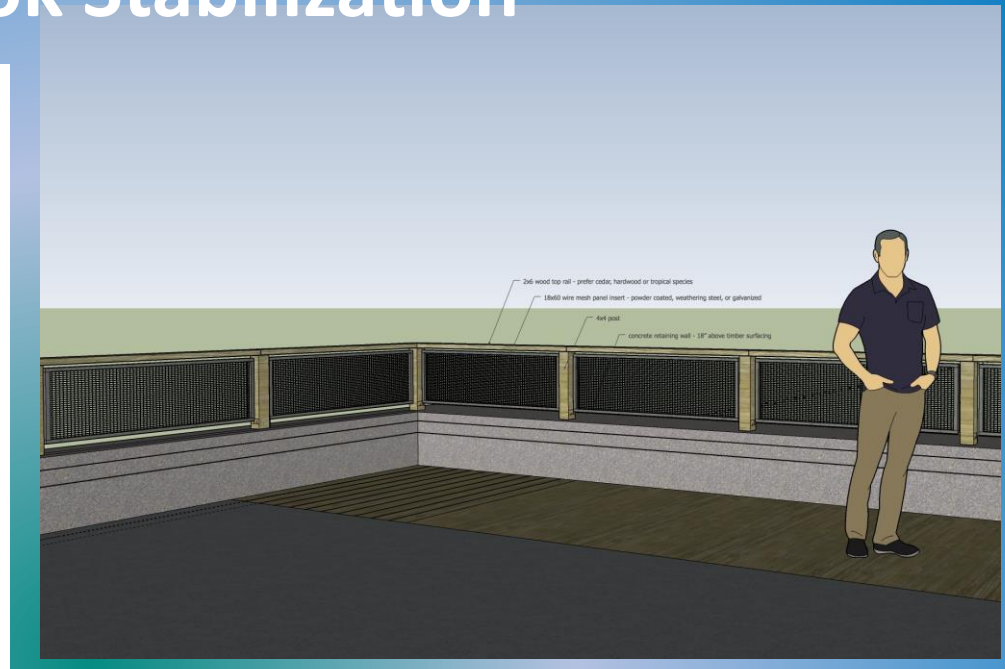
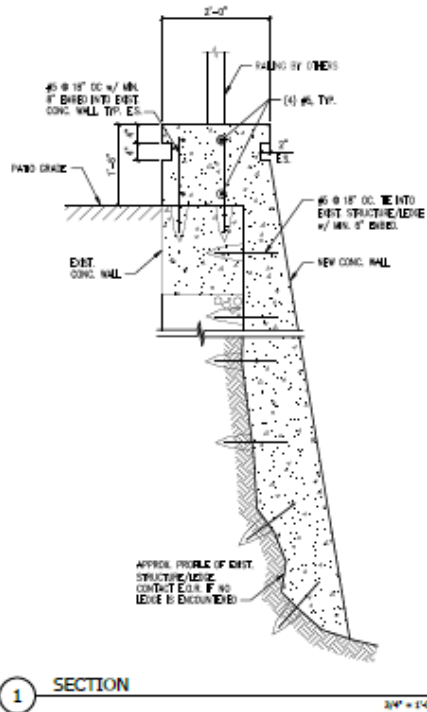
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C-802





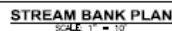
Overlook Stabilization



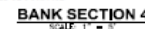
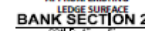
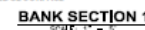
Shoreline Restoration



ACADIA CIVIL WORKS



1. REFERENCE IS MADE TO A TOPOGRAPHIC AND BOUNDARY SURVEY PLAN DEPICTING THE WALTONS MILL DAM LOCATED ON TEMPLE STREAM FOR ACADIA CIVIL WORKS PREPARED BY PULS & DAY LAND SURVEYORS.
2. EMBANKMENT SURFACES BELOW ELEVATION 360 SHALL BE REINFORCED WITH BOULDERS AND LOW-PERMEABILITY GRAVEL FILL. AREAS ABOVE THE BOULDER BANK SHALL BE OVERLAIN WITH 6" OF LOAM AND SEEDED. ADDITIONAL PLANTINGS SHALL ALSO BE APPLIED TO THIS AREA AS IDENTIFIED ON THE LANDSCAPE PLAN.
3. ALL VOID SPACES BETWEEN THE BOULDERS SHALL BE FILLED WITH LOW-PERMEABILITY GRAVEL FILL. THIS GRAVEL FILL MAY REQUIRE HYDRAULIC METHODS (AKA "GRAVEL WASHING") TO PROVIDE ADEQUATE FILL, COMPACTION, AND LOW PERMEABILITY PERFORMANCE. GRAVEL FILL SHALL BE IMPORTED FROM A LOCAL PIT, HOWEVER IT WILL BE SLENDED WITH SEDIMENT EXCAVATED FROM THE IMPOUNDMENT TO ACHIEVE A WELL-GRADED AND UNIFORM MIXTURE WITH AT LEAST 20% OF THE MIX PASSING THE 200 SIEVE.
4. PROPOSED SURFACE ELEVATIONS IN THE FLOOD PLAN RESTORATION AREA ARE IN REFERENCE TO THE SURFACE OF THE LOW-PERMEABILITY GRAVEL FILL (NOT THE TOP OF BOULDERS). IT IS ANTICIPATED AND DESIRED FOR BOULDERS TO PROTRUDE FROM THE LOW-PERMEABILITY GRAVEL FILL TO PROVIDE ROUGHNESS AND IRREGULARITY.
5. ALL FLOODPLAIN SURFACE AREAS WILL BE SEEDED TO PROMOTE VEGETATION OF APPROPRIATE WETLAND/FLOODPLAIN SPECIES AS DIRECTED BY THE PROJECT WETLAND SCIENTIST.



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DRAWING
C-300



Park Improvements



davidmaynes
STUDIO

Scale	1"=40'	DATE	NO.	REVISION	DATE
Checked By:	CM				
Drawn By:	CM				
Designed By:	CM				
Date:	01/10/2020				
Revised For:	TOWN REVIEW				

MATERIALS PLAN

WALTON'S MILL PARK
FARMINGTON, MAINE

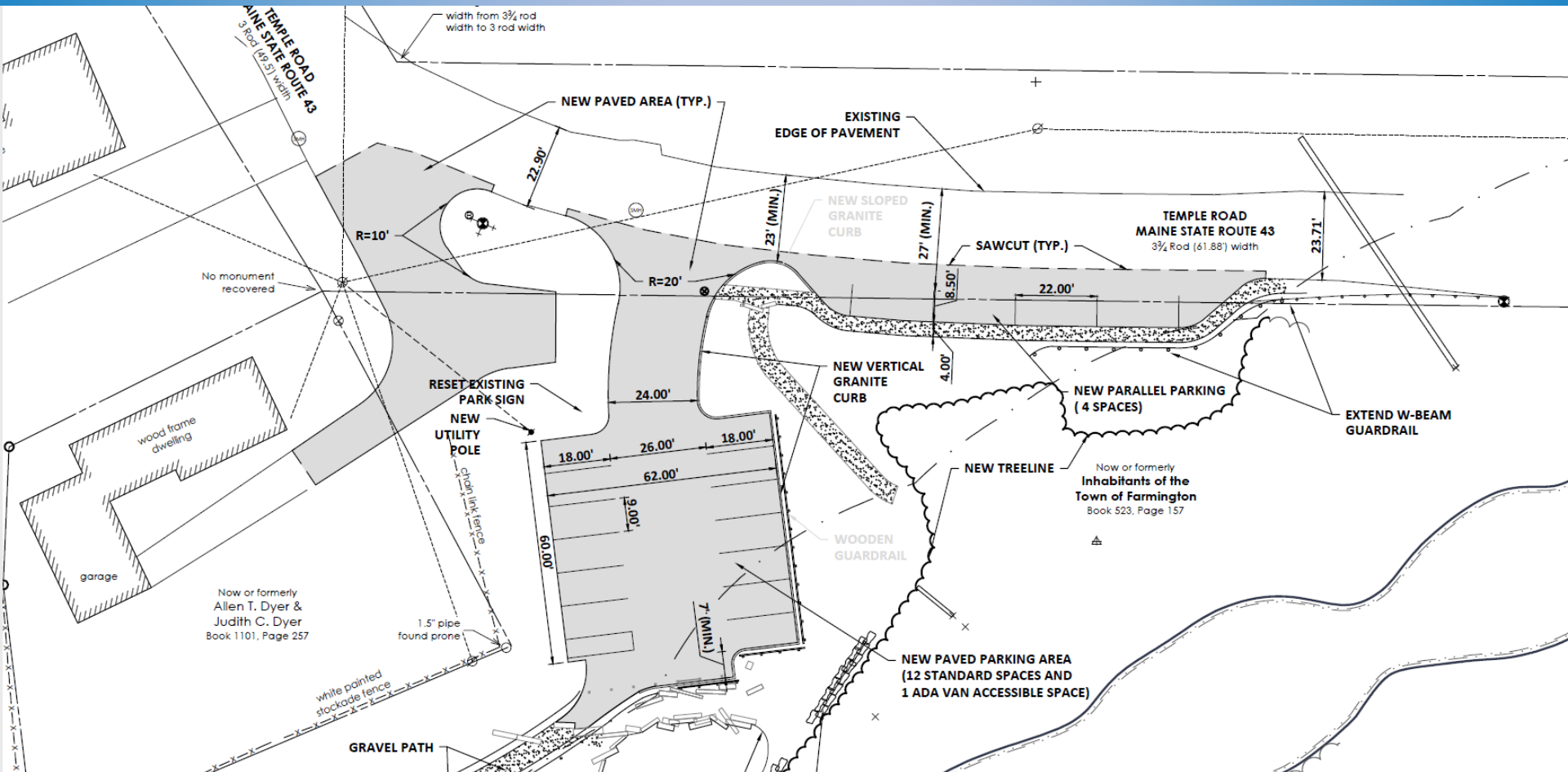
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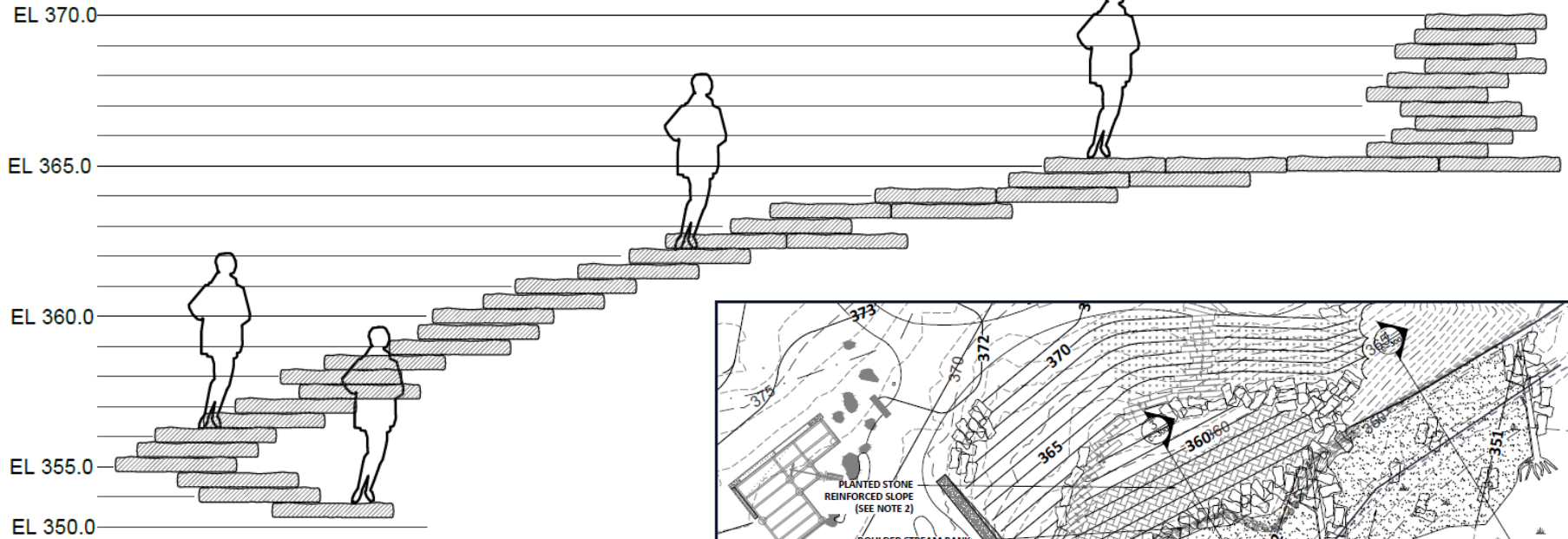
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10/10/2020 10:10:10 AM

Parking and Entry



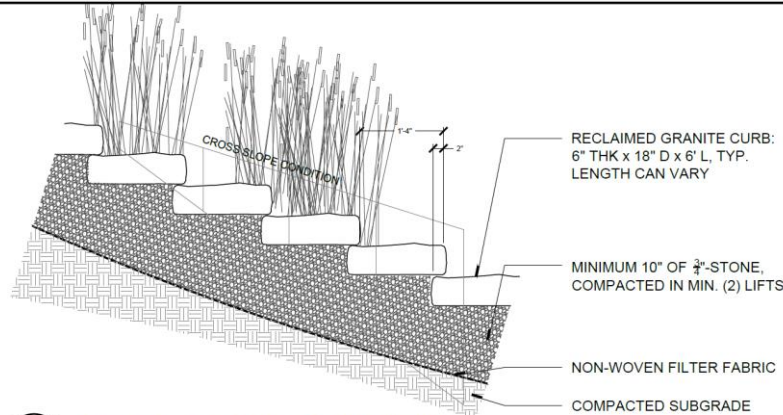
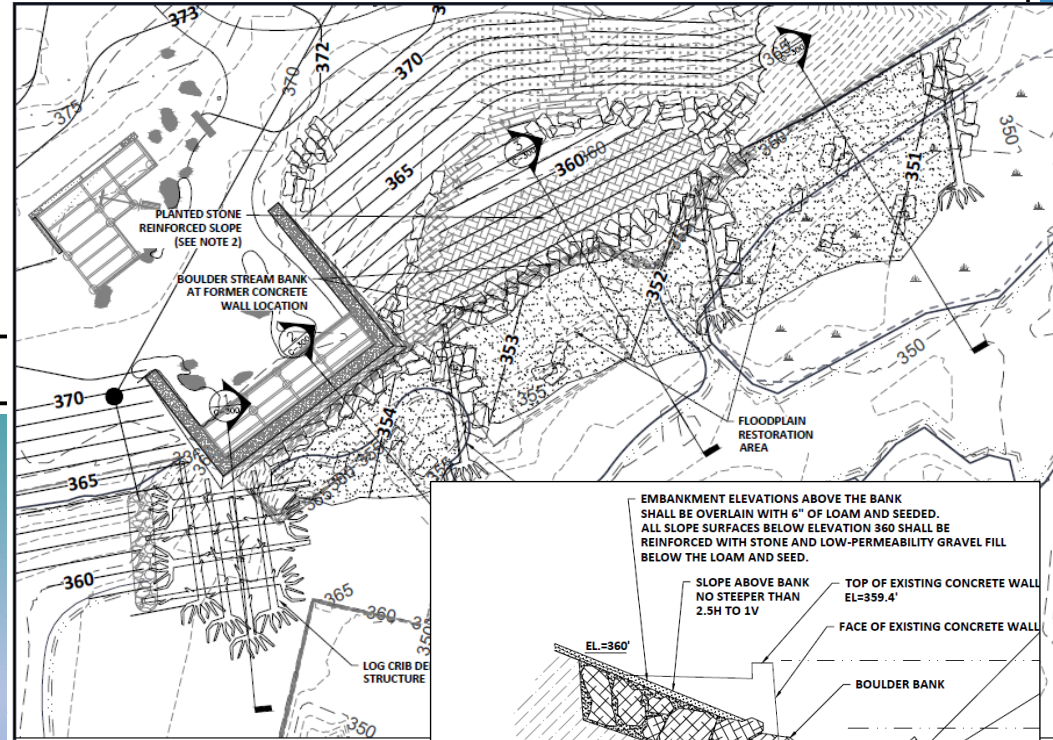
Park Improvements



1

SHORE ACCESS STEPS - ELEVATION

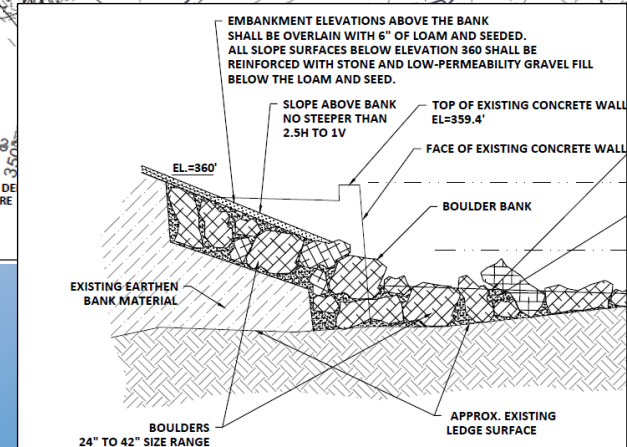
1/4"=1'



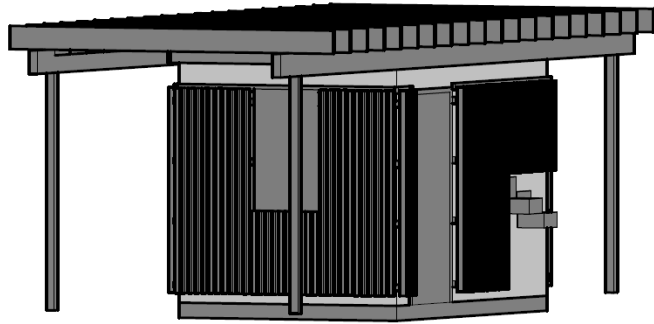
2

SHORE ACCESS STEPS - TYPICAL DETAIL

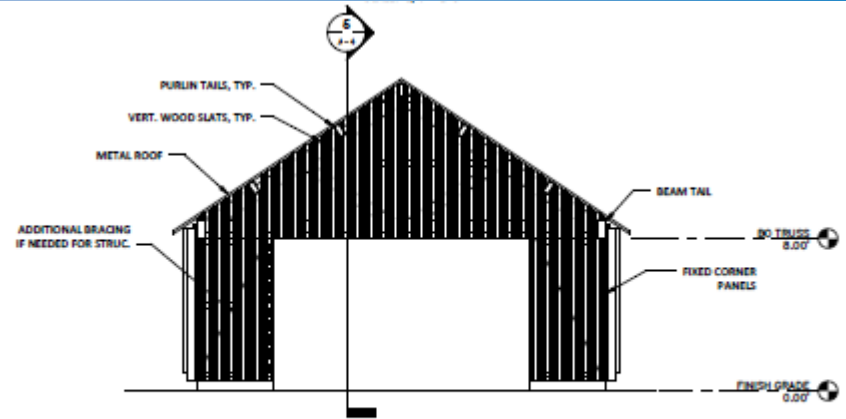
3/4"=1'



Bathroom and Pavilion

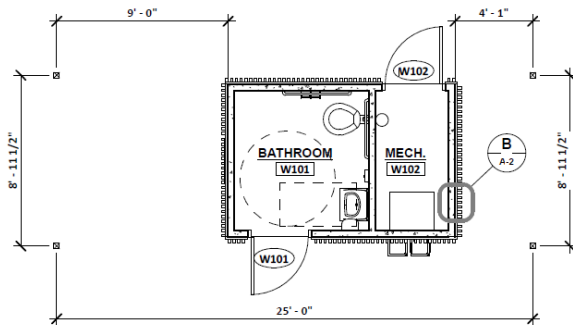


3D VIEW



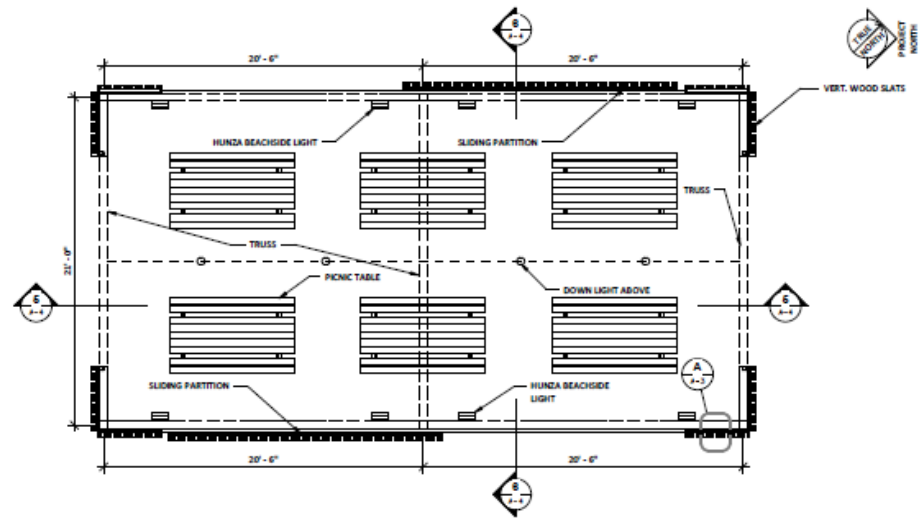
EAST ELEVATION

SCALE: 1/4" = 1'-0"



FLOOR PLAN

SCALE: 1/4" = 1'-0"



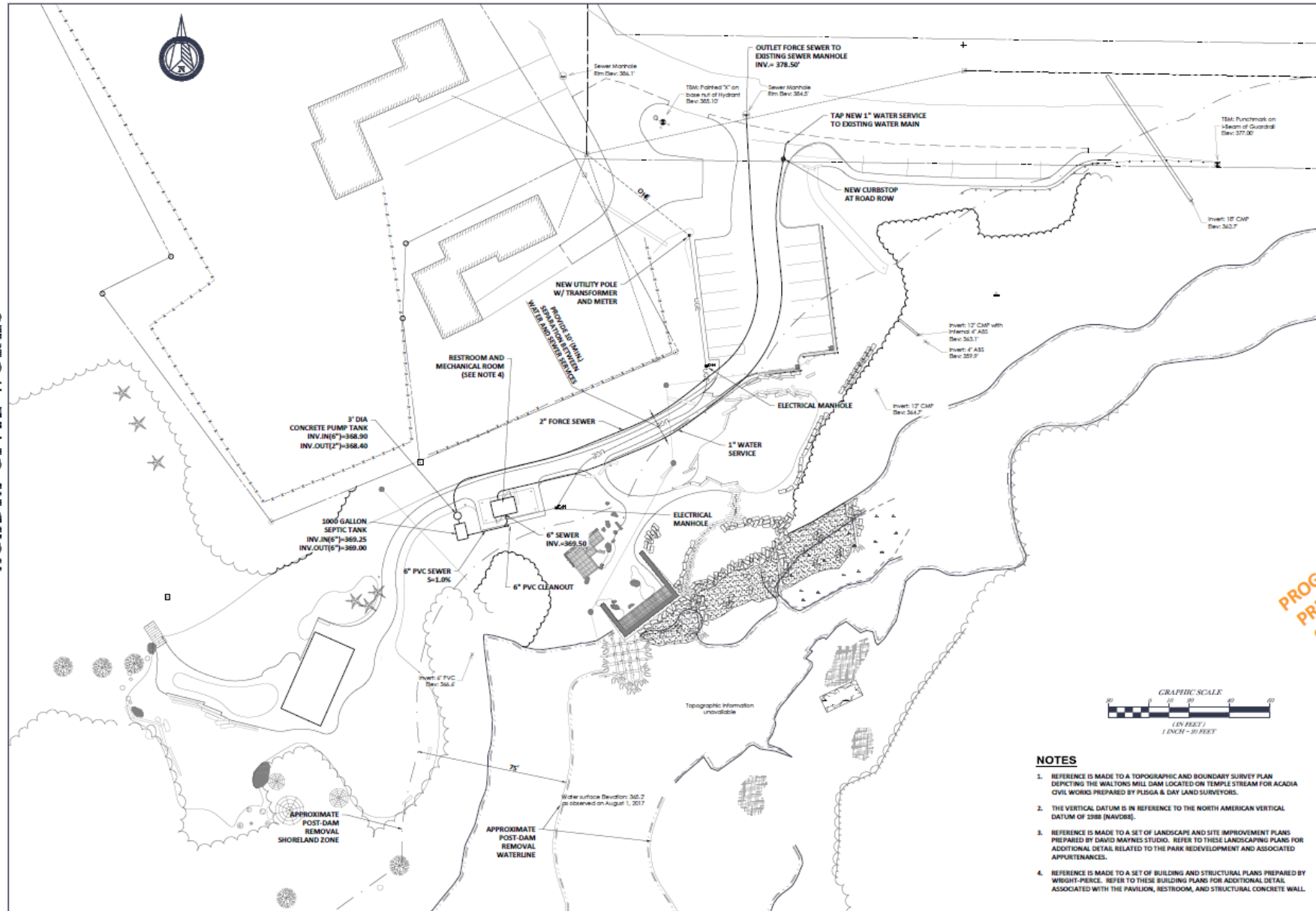
PLAN

SCALE: 1/4" = 1'-0"



Utility Plan

ACADIA CIVIL WORKS



NOTES

- REFERENCE IS MADE TO A TOPOGRAPHIC AND BOUNDARY SURVEY PLAN DEPICTING THE WALTON'S MILL DAM LOCATED ON TEMPLE STREAM FOR ACADIA CIVIL WORKS PREPARED BY PLEGA & DAY LAND SURVEYORS.
- THE VERTICAL DATUM IS IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- REFERENCE IS MADE TO A SET OF LANDSCAPE AND SITE IMPROVEMENT PLANS PREPARED BY DAVID MAYNES STUDIO. REFER TO THESE LANDSCAPING PLANS FOR ADDITIONAL DETAIL RELATED TO THE PARK REDEVELOPMENT AND ASSOCIATED APPURTENANCES.
- REFERENCE IS MADE TO A SET OF BUILDING AND STRUCTURAL PLANS PREPARED BY WRIGHT-PIERCE. REFER TO THESE BUILDING PLANS FOR ADDITIONAL DETAIL ASSOCIATED WITH THE PAVILION, RESTROOM, AND STRUCTURAL CONCRETE WALL.

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NO.	REVISION	DATE

PROGRESS PHOTO
PRELIMINARY
08/22/2020

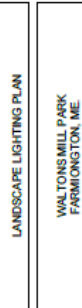
DAM REMOVAL AND PARK REDEVELOPMENT
AT WALTON'S MILL PARK ON TEMPLE STREAM
FARMINGTON, ME
ATLANTIC SALMON FEDERATION
JUNE 2020
UTILITY PLAN

ACW

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C-104

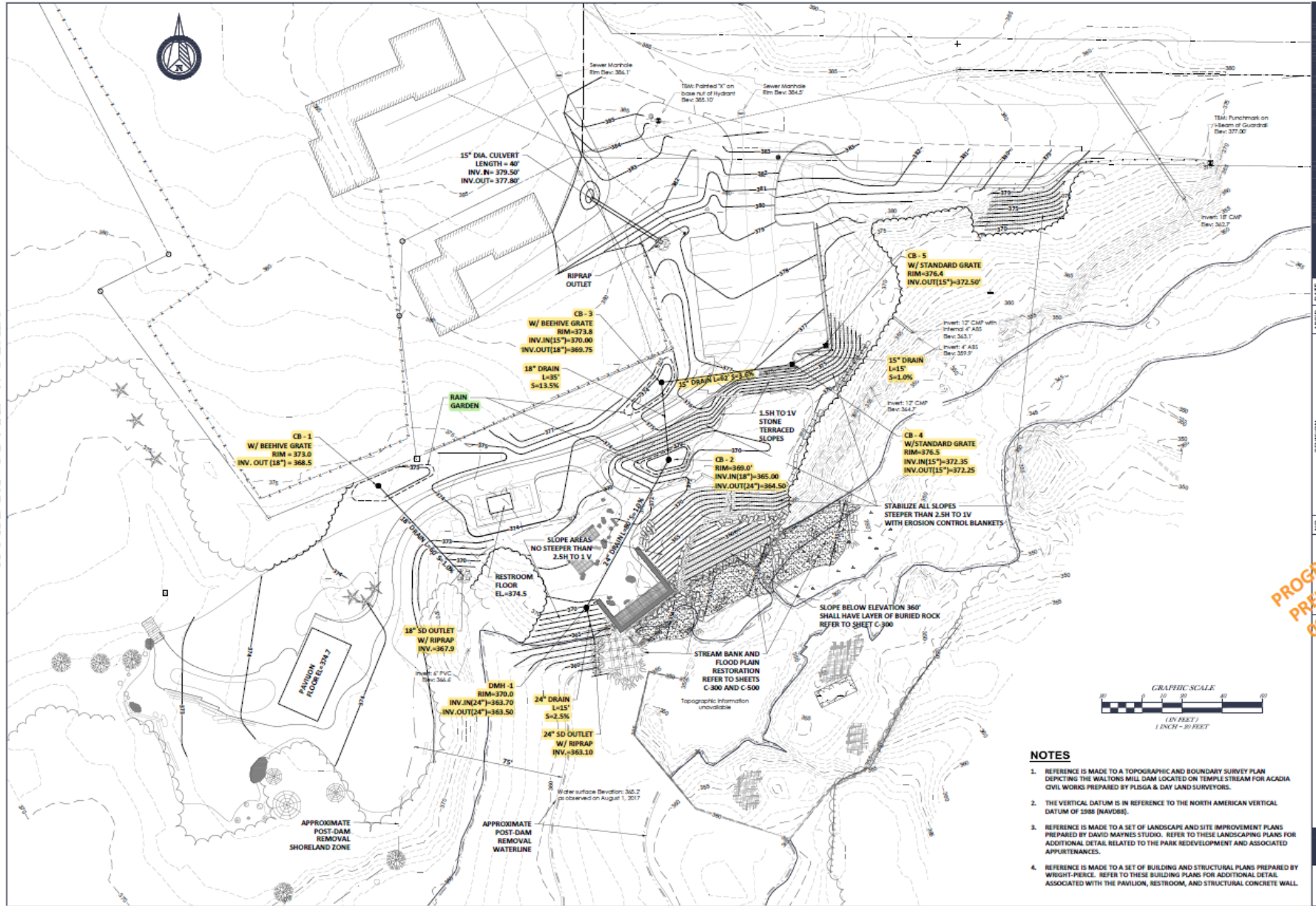


davidmaynes
STUDIO
26 Shore B, Kennebunk, ME 04043 p: 207.361.6789

WALTONS MILL PARK
EARMINGTON, ME

Drainage Plan

ACADIA CIVIL WORKS



NOTES

1. REFERENCE IS MADE TO A TOPOGRAPHIC AND BOUNDARY SURVEY PLAN DEPICTING THE WALTON'S MILL DAM LOCATED ON TEMPLE STREAM FOR ACADIA CIVIL WORKS PREPARED BY PLUSGA & DAY LAND SURVEYORS.
2. THE VERTICAL DATUM IS IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD8S).
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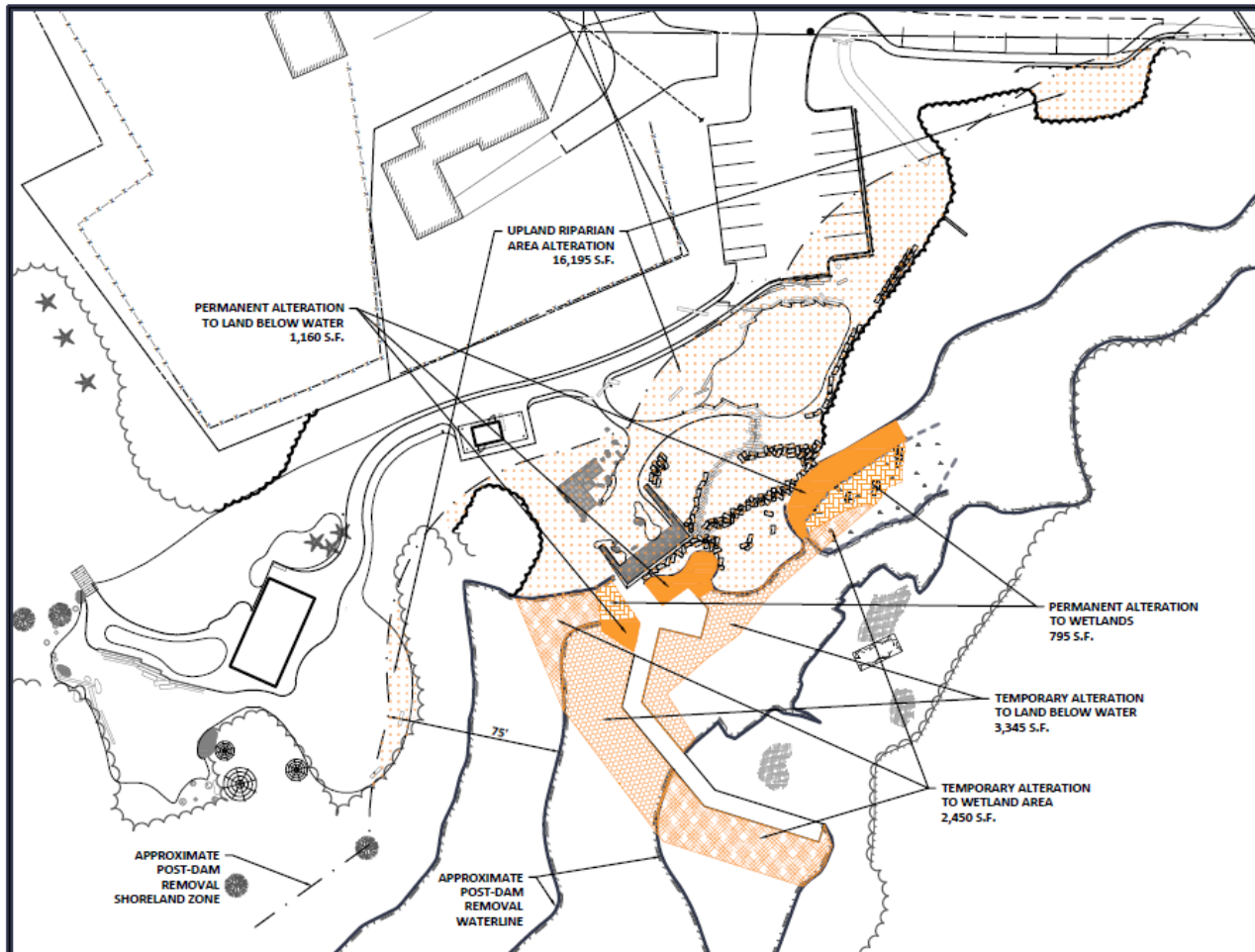
NO.	REVISION	DATE

PROGRESS PLOT
PRELIMINARY
08/22/2020

DAM REMOVAL AND PARK REDEVELOPMENT
AT WALTON'S MILL PARK ON TEMPLE STREAM
FAIRBANKS, ME
ATLANTIC SALMON FEDERATION
JUNE 2020
GRADING AND DRAINAGE PLAN

ACW
DRAWING
100

Shoreland Zone



ALTERATION AREAS:

TEMPORARY DISTURBANCE
LAND BELOW WATER = 3,345 S.F.
WETLAND = 2,450 S.F.

PERMANENT ALTERATION
LAND BELOW WATER = 1,160 S.F.
WETLAND = 795 S.F.

UPLAND RIPARIAN ZONE DISTURBANCE = 16,195 S.F.

FILL VOLUMES:

TEMPORARY FILL
LAND BELOW WATER
SANDBAG COFFERDAM = 170 CU.YDS.
LARGE ROCK/RIPRAP = 255 CU.YDS.
WETLAND
SANDBAG COFFERDAM = 35 CU.YDS.
LARGE ROCK/RIPRAP = 160 CU.YDS.

PERMANENT FILL
LAND BELOW WATER
ROCK/GRAVEL = 87 CU.YDS.
TIMBER CRIB = 38 CU.YDS.
WETLAND
ROCK/GRAVEL = 17 CU.YDS.
TIMBER CRIB = 45 CU.YDS.



ACADIA CIVIL WORKS
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WALTON'S MILL DAM REMOVAL
AND PARK REDEVELOPMENT

FARMINGTON,
MAINE

SCALE:
1 INCH = 50 FEET

PROJECT NO. 18010B

NATURAL RESOURCE ALTERATION MAP

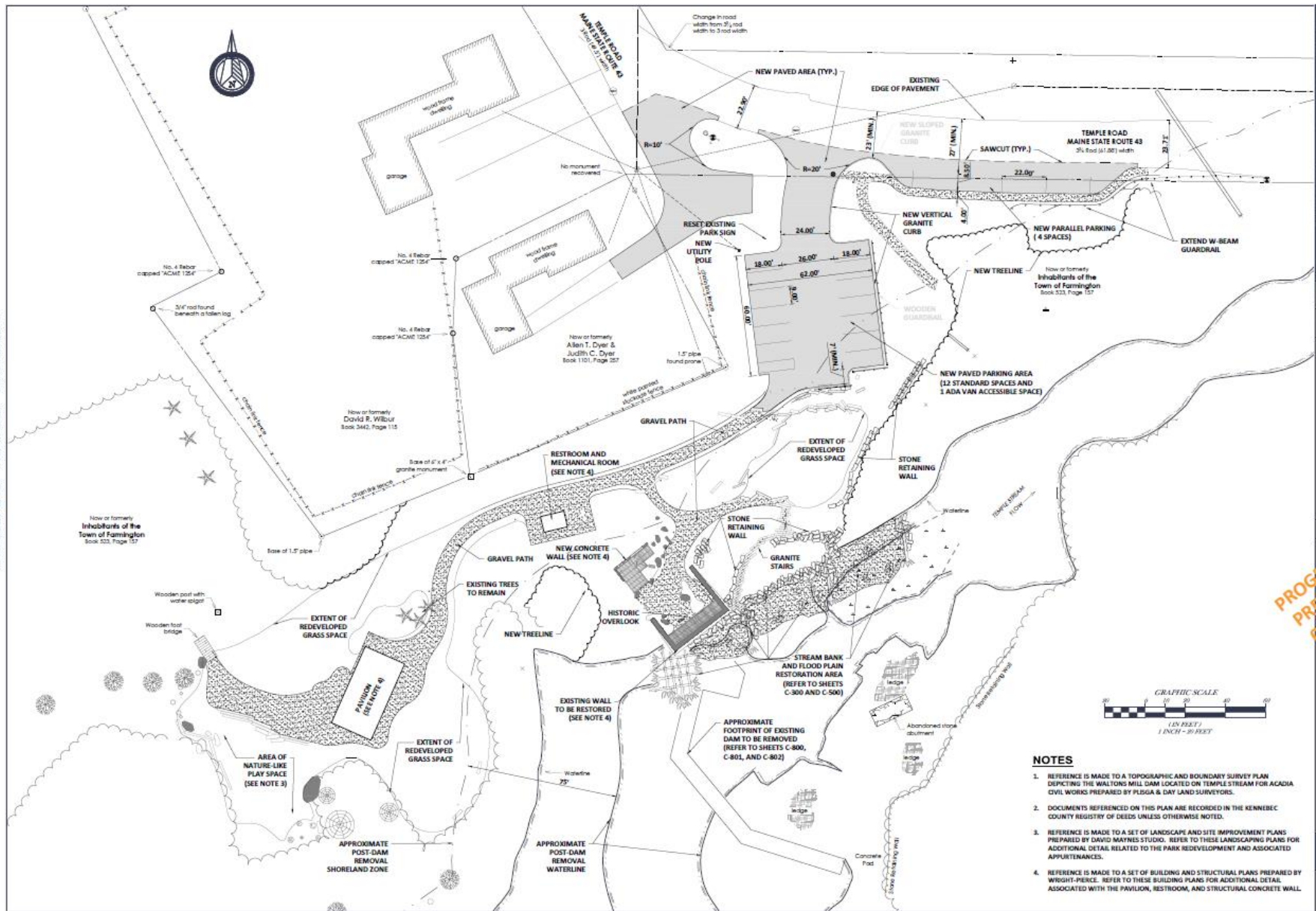
DATE: SEPTEMBER 6, 2020

FIGURE
SK-3



Overall Site Improvements Plan

ACADIA CIVIL WORKS



NOTES

- REFERENCE IS MADE TO A TOPOGRAPHIC AND BOUNDARY SURVEY PLAN DEPICTING THE WALTON'S MILL DAM LOCATED ON TEMPLE STREAM FOR ACADIA CIVIL WORKS PREPARED BY PUGA & DAY LAND SURVEYORS.
- DOCUMENTS REFERENCED ON THIS PLAN ARE RECORDED IN THE KENNEBEC COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.
- REFERENCE IS MADE TO A SET OF LANDSCAPE AND SITE IMPROVEMENT PLANS PREPARED BY DAVID MAYNES STUDIO. REFER TO THESE LANDSCAPING PLANS FOR ADDITIONAL DETAIL RELATED TO THE PARK REDEVELOPMENT AND ASSOCIATED APPURTENANCES.
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NO.	REVISION	DATE

PROGRESS PLOT
PRELIMINARY
06/22/2020

DAM REMOVAL AND PARK REDEVELOPMENT
AT WALTON'S MILL PARK ON TEMPLE STREAM
FARMINGTON, ME
ATLANTIC SALMON FEDERATION
SITE IMPROVEMENTS PLAN
JUNE 2020

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C-102

