

Erie Canal Park and Preserve Boardwalk and Bridge Construction

Town of Pittsford
Department of Public Works

BID DOCUMENTS

February 13, 2020

NOT FOR CONSTRUCTION



LIST OF DRAWINGS

1.0 Site Preparation Plan
2.0 Site Layout and Grading Plans
3.0 Typical Construction Details

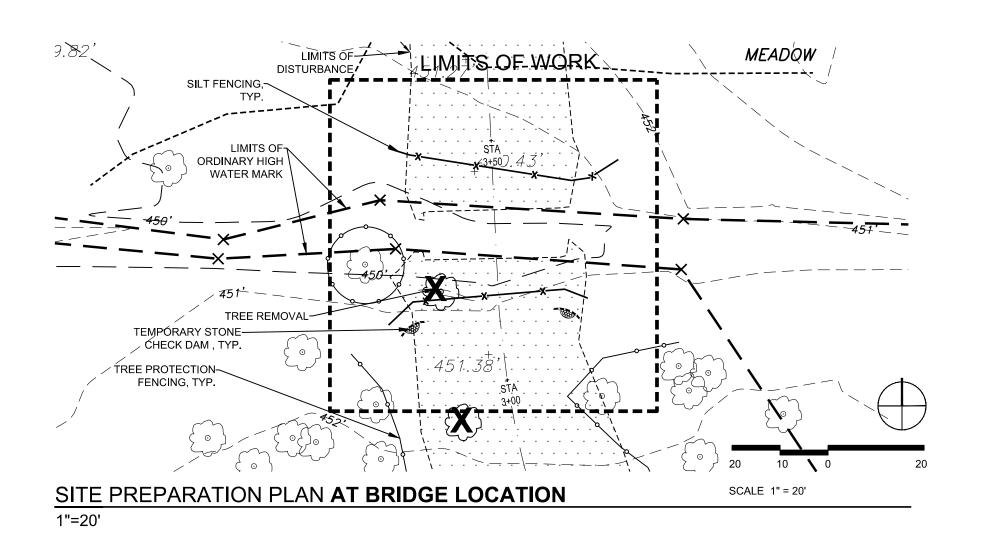
LANDSCAPE ARCHITECT

SURVEY AND ENVIRONMENTAL

Sue Steele Landscape Architecture

w York 14450

9 Summit Street, Fairport, New York 14450 (585) 747-9996 steele.la RAVI Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, New York 14618 SITE PREPARATION NOT IN CONTRACT AND TO BE COMPLETED PRIOR TO START OF CONSTRUCTION. SEE SPECIAL SITE PREPARATION NOTES



SPECIAL SITE PREPARATION NOTES:

WILL PERFORM THE FOLLOWING:

PROTECTION FENCING.

- PRIOR TO CONSTRUCTION THE TOWN OF PITTSFORD
- 1.1. INSTALLATION OF STABILIZED CONSTRUCTION
- ACCESS ROUTE 1.2. CLEARING AND GRUBBING WITHIN LIMITS OF WORK.
- 1.3. TREE REMOVALS WITHIN LIMITS OF WORK.
 - INSTALLATION OF REQUIRED TEMPORARY SILT FENCING, TEMPORARY CHECK DAMS, AND TREE
- 2. CONTRACTOR RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION FENCING DURING THE ENTIRE CONSTRUCTION PERIOD.

SYMBOL

@ CENTER

TONE CHECK DAM

SECTION B-B NOT TO SCALE

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR STORMWATER MANAGEMENT DURING PROJECT CONSTRUCTION.
- 2. THE CONTRACTOR'S MATERIAL STAGING AND STORAGE AREA IS TO BE LOCATED WITHIN THE CONSTRUCTION AREA LIMITS OR IN AN AREA APPROVED BY THE OWNER.

DEMOLITION AND SITE PREPARATION

- 3. REMOVALS LIMITED TO EXCAVATION ASSOCIATED WITH BRIDGE AND BOARDWALK CONCRETE ABUTMENT WALLS AND STONE WING WALLS.
- 4. THE CONTRACTOR SHALL CAREFULLY INSPECT THE EXISTING CONDITIONS AT THE SITE AND FIELD VERIFY THE PRECISE LOCATION AND QUANTITY OF ALL ITEMS THAT MUST BE REMOVED IN ORDER TO CONSTRUCT THIS
- 5. GREAT CARE SHALL BE TAKEN IN REMOVING MATERIALS AND/OR ITEMS WITHIN THE DRIPLINE OF ANY EXISTING TREES TO MINIMIZE ROOT DISTURBANCE. DISCUSS WITH OWNER'S REPRESENTATIVE PRIOR TO EXCAVATING WITHIN THE CANOPY OR DRIP LINE OF ANY TREE.

EROSION CONTROL NOTES:

- 1. TOPSOIL OR STOCKPILED SUBSOIL SHALL BE SEEDED IMMEDIATELY IF THEY ARE TO REMAIN IN PLACE FOR MORE THAN 7 DAYS.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL DEVICES AND TEMPORARY SEEDING UNTIL A PERMANENT COVER OF VEGETATION IS ESTABLISHED. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, REMOVAL OF ACCUMULATED SEDIMENT, PREVENTATIVE AND REMEDIAL WORK, REPAIR, REPLACEMENT, WATERING SEEDED AREAS, RESEEDING AND REMULCHING.
- 3. ON-SITE BURIAL OF WASTE MATERIAL CLEARED FROM THE WORK AREA IS NOT PERMITTED. CONTRACTOR SHALL DISPOSE OF OFF-SITE IN A LOCATION APPROVED BY LOCAL AND STATE ORDINANCES.
- 4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BY WATERING AS NEEDED.
- THE CONTRACTOR SHALL KEEP PAVED SURFACES CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- 6. IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES, AT THE EXPENSE OF THE CONTRACTOR, TO PREVENT SILTATION OF DOWNSTREAM PROPERTIES. INSTALLATION OF ADDITIONAL MEASURES SHALL BE REVIEWED BY THE
- 7. IN THE EVENT THERE IS A FAILURE OF AN EROSION CONTROL DEVICE, THE CONTRACTOR IS RESPONSIBLE TO RESTORE DOWNSTREAM AREAS, AT THE EXPENSE OF THE
- 8. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL A PERMANENT COVER OF VEGETATION IS ESTABLISHED. REMOVAL OF DEVICES TO BE COORDINATED WITH TOWN AND LANDSCAPE ARCHITECT.
- 9. ALL SLOPES 3H:1V OR GREATER SHALL BE STABILIZED WITH AN EROSION CONTROL FABRIC.
- 10. THE CONTRACTOR WILL DESIGNATE A MEMBER OF HIS FIRM TO BE RESPONSIBLE TO MONITOR THE EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION, AND PRESERVATION THROUGHOUT

EROSION CONTROL & CONSTRUCTION SEQUENCE

ITEMS 1-7 BY OTHERS 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

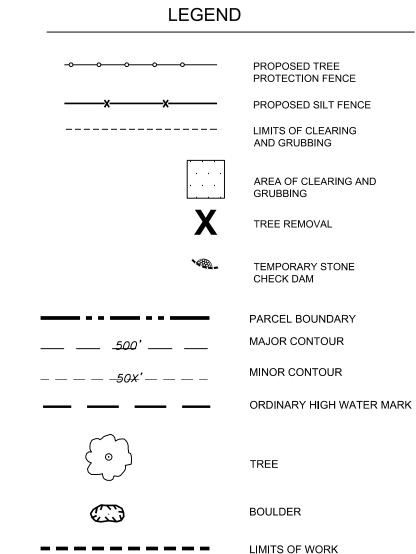
- PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED. SUCH AS WOODS, TREES, WETLANDS AND AREAS OF MINIMAL GRADE CHANGE, WITH SILT OR CONSTRUCTION FENCING.
- 3. INSTALL ALL SEDIMENT & EROSION CONTROLS.
- 4. CLEAR AND GRUB SITE.
- 5. STRIP AND STOCKPILE TOPSOIL AND IMMEDIATELY PROVIDE TEMPORARY SEEDING OF STOCKPILE. INSTALL PERIMETER SILT FENCE PRIOR TO STOCKPILING. TOPSOIL SHALL REMAIN ON SITE UNTIL PROJECT IS COMPLETE OR INSURANCE OF A MINIMUM SEEDBED OF 6" IS PROVIDED. A MAXIMUM OF 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME PRIOR TO STABILIZATION.
- 6. BEGIN EARTHWORK AND ROUGH GRADING.
- 7. COMPLETE ROUGH GRADING OF SITE. AREAS WHERE SOIL DISTURBANCE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED SHALL BE SEEDED/MULCHED WITHIN 7 DAYS.

ITEM 8 BY CONTRACTOR

8. INSTALL SITE STRUCTURES, FEATURES, AND PAVEMENTS.

ITEMS 9-0 BY OTHERS

- 9. COMPLETE FINISH GRADING, INSTALL PERMANENT SEEDING, FERTILIZER AND MULCH.
- 10. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT COVER OF VEGETATION HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE TOWN AND LANDSCAPE ARCHITECT





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This document was prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund

Project Name and Address

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Town of Pittsford, New York Department of Public Works

Commissioner of Public Works Paul Schenkel

February 13, 2020

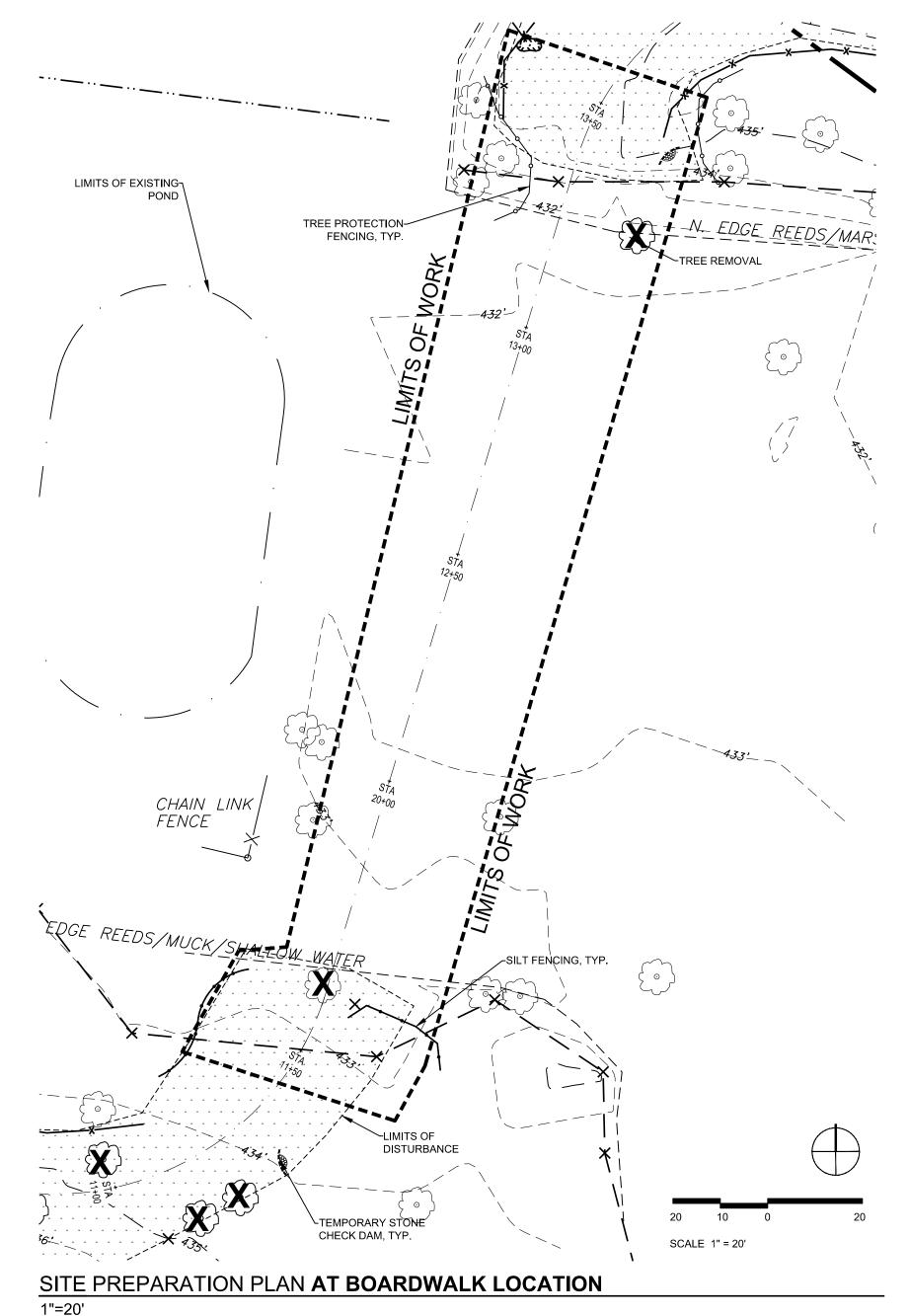
Date Revision

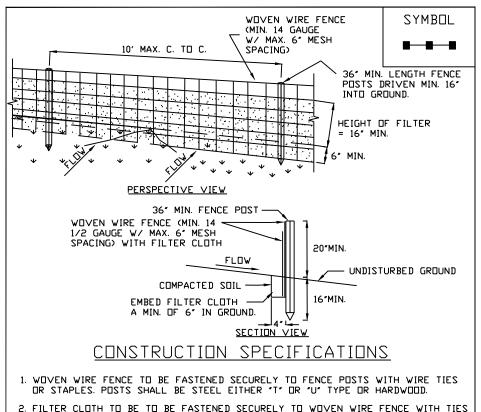
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Drawing Title

Site Preparation Plan





2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE,

. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT. 4. PREFABRICATED UNITS SHALL BE GEDFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

6" MAXIMUM MESH OPENING.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

AND EROSION WITH STONE OR LINER AS APPROPRIATE.

GRADES AND LOCATIONS SHOWN IN THE PLAN.

PREVENT CUTTING AROUND THE DAM.

MAXIMUM DRAINAGE AREA 2 ACRES.

DITCH BOTTOM

FILTER FABRIC -

CONSTRUCTION SPECIFICATIONS

SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST

STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES,

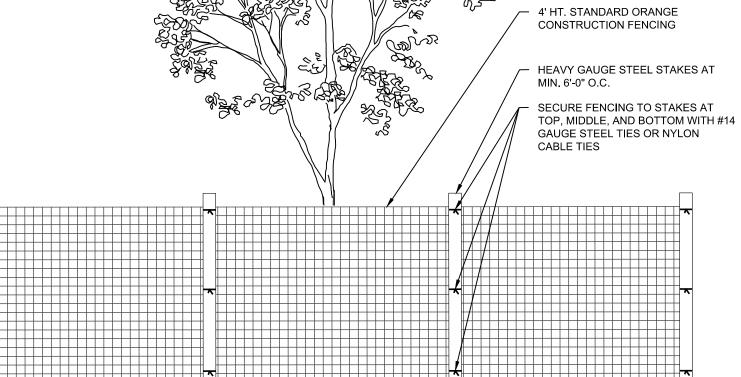
THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE O

4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR

5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE

3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO

CUTOFF TRENCH
DESIGN BOTTOM

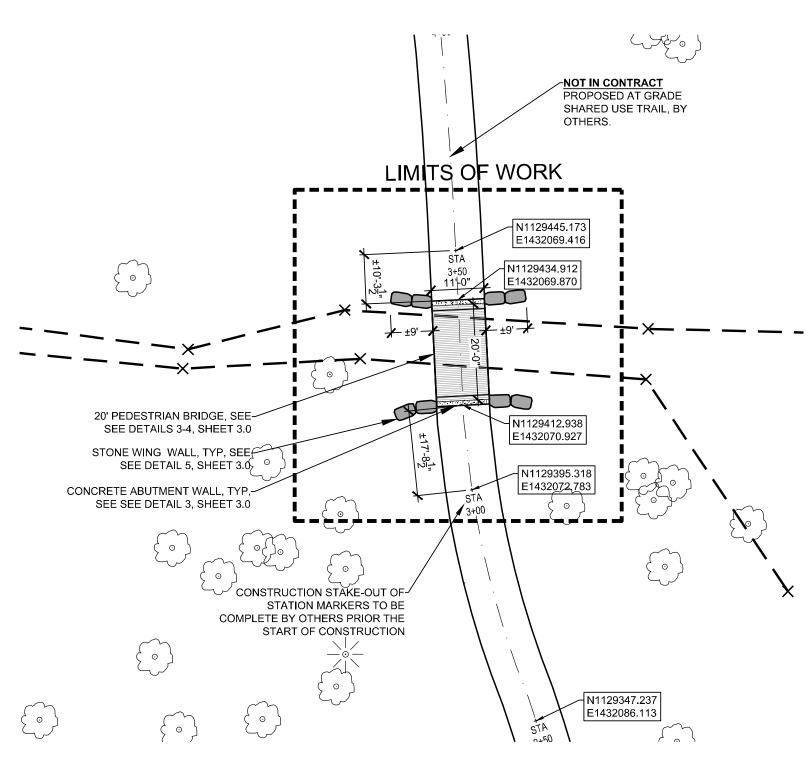


NOTES:

- 1. FENCE LOCATION AS INDICATED ON SITE PREPARATION PLANS. FOR INDIVIDUAL TREES THE FENCE SHALL BE PLACED AT THE DRIP LINE (EXTENT OF CANOPY). IF NOT POSSIBLE THE FENCE SHALL BE LOCATED AS CLOSE TO THE DRIP LINE AS POSSIBLE AND IN NO CASE CLOSER THAN 10 FEET AWAY FROM THE TREE TRUNK.
- 2. DO NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING (IDLING) UNDER TREE CANOPIES.
- TREE PROTECTION FENCING SHALL NOT BE REMOVED WITHOUT APPROVAL OF OWNER'S REPRESENTATIVE. FENCING SHALL BE REPLACED IMMEDIATELY AFTER APPROVED ACTIVITIES IN THE AREA OF PROTECTION ARE COMPLETE.

TYPICAL TREE PROTECTION FENCE DETAIL

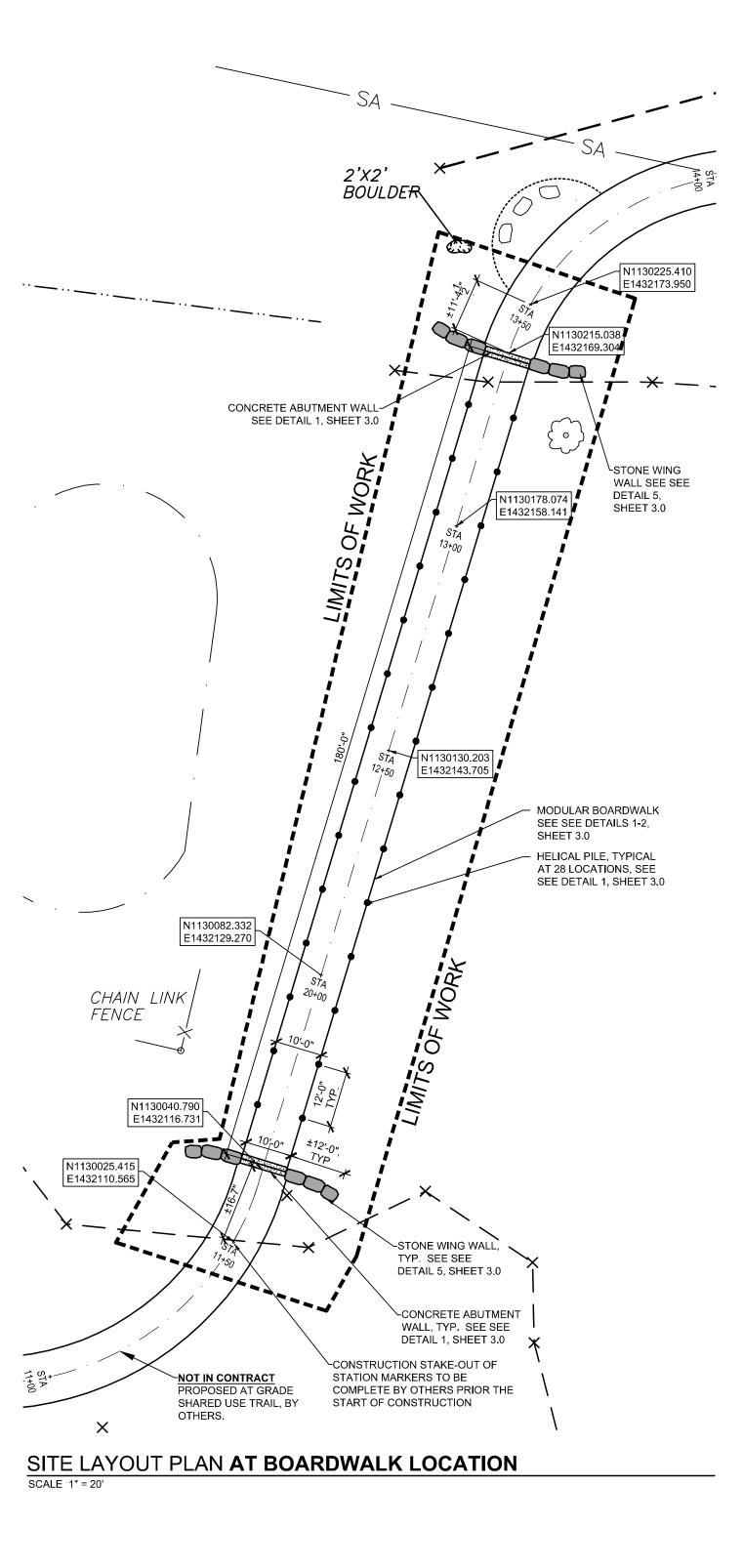
SCALE 1/2" = 1'



SITE LAYOUT PLAN AT BRIDGE LOCATION

GRADING PLAN AT BRIDGE LOCATION

SCALE 1" = 2





2'X2' BOULDER\

TW 434.50

BW 433.25

TW 434.50

BW 433.50

BOARDWALK ELEVATION

-LIMITS OF

DELINEATED WETLANDS, TYP.

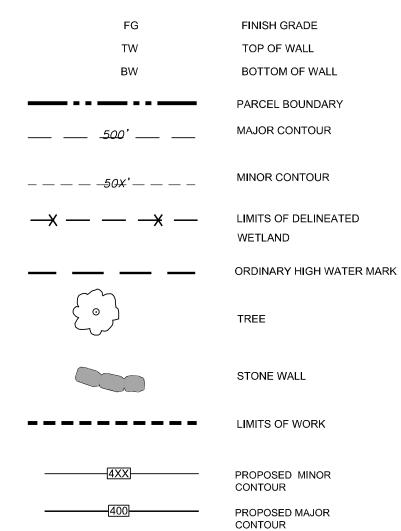
434.50

CHAIN LINK

BW 433.00

GRADING PLAN AT BOARDWALK LOCATION

FENCE



LAYOUT AND MATERIAL NOTES

- CONSTRUCTION STAKE-OUT OF TRAIL STATION MARKERS TO BE COMPLETE BY OTHER PRIOR TO START OF CONSTRUCTION.
- 2. LOCATION PROPOSED BOARDWALK AND BRIDGE SHALL BE STAKED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE SITE LAYOUT PLAN FOR REVIEW AND APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- 3. ALL STRUCTURES (ABUTMENT WALLS, WING WALLS, AND HELICAL PILES) SHALL BE STAKED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE SITE LAYOUT PLAN AND GRADING PLAN FOR REVIEW AND APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL ADHERE TO WRITTEN DIMENSIONS ON ALL PLANS AND SHALL NOTIFY THE LANDSCAPE ARCHITECT IF THE WRITTEN DIMENSIONS CONFLICT WITH THE FIELD CONDITIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL LAYOUT DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
- 6. THE CONTRACTOR SHALL REFER ANY QUESTIONS REGARDING MATERIALS, FINISHES, LABOR, AND/OR PRODUCTS NOT SPECIFIED HEREIN TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING MATERIALS OR STARTING
- 7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE SHOWN.
- 8. FIELD MEASUREMENTS: TAKE ACCURATE FIELD MEASUREMENTS BEFORE PREPARATION OF SHOP DRAWINGS AND FABRICATION.

GRADING NOTES

- 1. CONTRACTOR RESPONSIBLE FOR INSTALLING THE BOARDWALK, BRIDGE, ASSOCIATED CONCRETE ABUTMENT WALLS, STONE WING WALLS, AN BACKFILLING AT WALLS ACCORDING TO THE GRADING PLAN. SITE GRADING TO BE COMPLETE BY OTHERS.
- 2. ANY DISCREPANCIES IN PROPOSED ELEVATIONS NOTED BY THE CONTRACTOR DURING CONSTRUCTION PROCESS SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
- CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNEXPECTED SUBSURFACE CONDITIONS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS UNLESS OTHERWISE NOTED. ALL NEWLY GRADED FOUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER AS TO DRAIN PROPERLY AND BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.
- 5. ALL GRADING OPERATIONS WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN SHALL BE COMPLETED BY HAND WITH EXTREME CARE TO AVOID DAMAGE TO TREE ROOTS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL CUT AND FILL OPERATIONS AND MATERIALS NECESSARY TO ACHIEVE THE ELEVATIONS SPECIFIED ON THIS PLAN, INCLUDING THE OFF SITE DISPOSAL OF ANY EXCESS MATERIALS IN A LEGAL MANNER
- 7. ALL FILL AND BACKFILL MATERIALS MUST BE THOROUGHLY COMPACTED AS THAT ARE PLACED.
- 8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DISTURBANCE OF, OR DAMAGE TO, EXISTING PLANTS TO REMAIN

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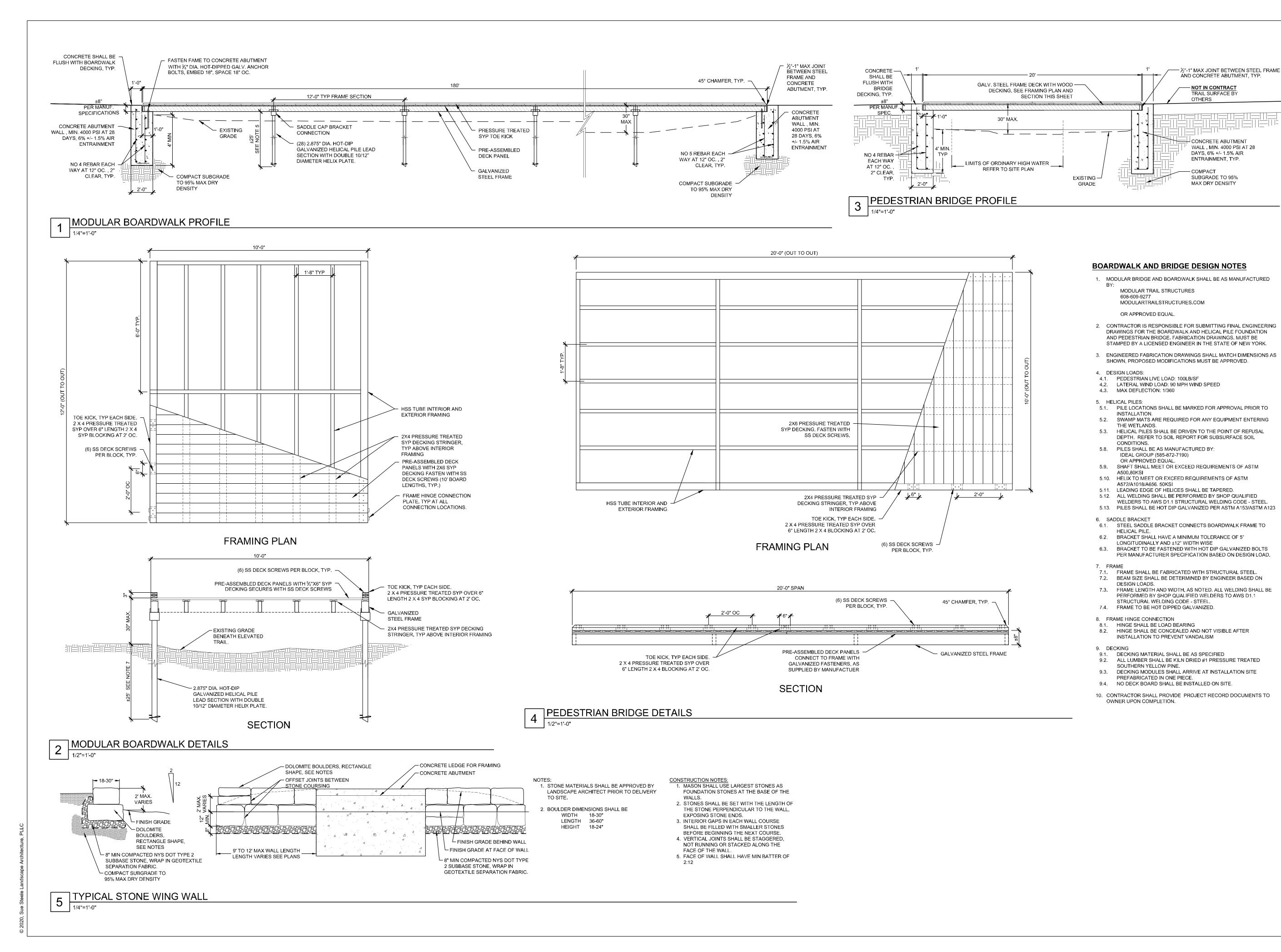
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wing Title

Site Layout and Grading Plans

20 2.

20 10 0 20 SCALE 1" = 20'



Steele Landscape Architecture

AND CONCRETE ABUTMENT, TYP.

WALL, MIN. 4000 PSI AT 28

DAYS, 6% +/- 1.5% AIR

ENTRAINMENT, TYP.

SUBGRADE TO 95%

MAX DRY DENSITY

COMPACT

TRAIL SURFACE BY

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