CONSTRUCTION DRAWINGS
FOR
MAIN STEM RESTORATION PROJECT
LONG CREEK, SOUTH PORTLAND, MAINE
JUNE 2019

AERIAL VIEW
SCALE: 1" = 200'
SOURCE: GOOGLE EARTH, DATED 05-09-2016

SCALE: 1" = 2,000'
SOURCE: MEGIS, PORTLAND-WEST QUAD, 2014

DRAWING LIST:
C-001 COVER SHEET
SBS-001 STANDARD BOUNDARY SURVEY - NOTES AND DETAILS
SBS-002 STANDARD BOUNDARY SURVEY - WEST
SBS-003 STANDARD BOUNDARY SURVEY - EAST
C-100 EXISTING CONDITIONS / OVERALL SITE PLAN
C-101 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 1
C-102 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 2
C-103 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 3
C-104 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 4
C-105 PLANTING PLAN OVERVIEW
C-106 PLANTING PLAN AND DETAILS
C-301 EROSION AND SEDIMENT CONTROL PLAN - NOTES AND DETAILS
C-302 DETAILS-1
C-303 DETAILS-2

DRAWING LIST CONTINUED:
C-001 COVER SHEET
SBS-001 STANDARD BOUNDARY SURVEY - NOTES AND DETAILS
SBS-002 STANDARD BOUNDARY SURVEY - WEST
SBS-003 STANDARD BOUNDARY SURVEY - EAST
C-100 EXISTING CONDITIONS / OVERALL SITE PLAN
C-101 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 1
C-102 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 2
C-103 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 3
C-104 PROPOSED ACCESS AND RESTORATION PLAN - SHEET 4
C-105 PLANTING PLAN OVERVIEW
C-106 PLANTING PLAN AND DETAILS
C-301 EROSION AND SEDIMENT CONTROL PLAN - NOTES AND DETAILS
C-302 DETAILS-1
C-303 DETAILS-2
NO L) ~ SEWER ~ SEDIMENT BARRIER ~ ~

EXISTING SPANNING TREE UNE

CONTOUR

LAYDOWN AREA

GRAVEL MOUND

SPOT GRADE

14. THE CHANNEL OF LONG CREEK IN THE PROJECT AREA IS PRONE TO MIGRATION, EROSION, RESTSETTING OF BENCHMARKS, REFERENCE POINTS, AND STAKES IS AT CONTRACTOR'S DISCRETION.

15. LOCATIONS SHOWN FOR TEMPORARY ACCESS ARE APPROXIMATE. CONTRACTOR TO LOCATE AND CONSTRUCT AS NEEDED. UPON COMPLETION OF PROJECT, CONTRACTOR TO LOAM, REMOVAL OF IMPROVEMENTS, OPERATING COSTS, ETC.

16. CONTRACTOR TO HAVE ON-SITE ADEQUATE SPILL RESPONSE MATERIALS WHENEVER DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.

17. OWNERS/ENGINEER HAS IDENTIFIED POTENTIAL STOCKPILE AND LAYDOWN AREAS ON THE 72-HOURS IN ADVANCE OF ANY GROUND DISTURBANCE.

BELOWGROUND UTILITIES WHETHER SHOWN ON PLANS OR NOT. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING BELOWGROUND UTILITIES.

REPRESENTED ON THE PLANS MAY END UP BEING DIFFERENT AT THE TIME OF CONSTRUCTION.

MATCH LINE - SEE SHEET

PROPOSED EDGE

PROPOSED GRAVEL

SOUTH PORTLAND, MAINE

35 MAIN STREET, SUITE 3

LONG CREEK WATERSHED MANAGEMENT DISTRICT

36 MAIN STREET, SUITE 3

WINDHAM, ME 04062
PROPOSED ACCESS AND RESTORATION PLAN - SHEET 3
MAIN STEM RESTORATION PROJECT
LONG CREEK
SOUTH PORTLAND, MAINE

LONG CREEK WATERSHED MANAGEMENT DISTRICT
34 MAIN STREET, SUITE 3
WINDHAM, ME 04062

DATE: 1/03/2018

C-103
Legend:
- Approximate Extent of Japanese Knotweed (Fallopia japonica) and/or Giant Knotweed (Fallopia sachalinensis)
- Approximate Extent of Common Reed or Phragmites (Phragmites australis)
- Approximate Extent of Multiflora Rose (Rosa multiflora)
- Planting Area (See Sheet C-106 for Planting Area Details)
- Edge of Stream

Note:
1. Location and extent of invasive species were mapped by GZA in December 2017 using a hand-held GPS unit that has a horizontal accuracy of approximately three meters. Location and extent should be considered approximate as current conditions may vary.

Data Sources: Maine GeoLibrary and Maine Office of GIS (MEGIS)

GZA File No.: 09.0025954.00

Drawn By: A. Mountain 12/19/2018

PLANTING PLAN OVERVIEW
LONG CREEK MAIN STEM RESTORATION

Sheet: C-105
NOTES:
1) TREES AND SHRUBS SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS.
2) RELATIVE POSITIONS OF ALL PLANTS AND TREES ARE SUBJECT TO APPROVAL OF THE OWNER'S REPRESENTATIVE.
3) NOTIFY THE OWNER'S REPRESENTATIVE, ONE (1) WEEK PRIOR TO LAYOUT. LAYOUT ALL INDIVIDUAL TREE AND SHRUB LOCATIONS. PLACE PLANTS ABOVE SURFACE AT PLANTING LOCATION OR PLACE A LABELED STAKE AT PLANTING LOCATION. LAYOUT BED LINES WITH PAINT FOR THE OWNER'S REPRESENTATIVE'S APPROVAL. SECURE THE OWNER'S REPRESENTATIVE'S ACCEPTANCE BEFORE DIGGING AND START OF PLANTING WORK.
4) WHEN APPLICABLE, PLANT TREES BEFORE OTHER PLANTS ARE INSTALLED.
5) IT IS UNDERSTOOD THAT PLANTS ARE NOT PRECISE OBJECTS AND THAT MINOR ADJUSTMENTS IN THE LAYOUT WILL BE REQUIRED AS THE PLANTING PLAN IS CONSTRUCTED. THESE ADJUSTMENTS MAY NOT BE APPARENT UNTIL SOME OR ALL OF THE PLANTS ARE INSTALLED. MAKE NO ADJUSTMENTS AS REQUIRED BY THE OWNER'S REPRESENTATIVE, INCLUDING RELOCATING PREVIOUSLY INSTALLED PLANTS.
6) SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

SOURCE: URBAN TREE FOUNDATION © 2014  OPEN SOURCE FREE TO USE
B. EROSION AND SEDIMENTATION CONTROL MEASURES

ANY SUITABLE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR REUSE IN FINAL GRADING.

5. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING DURING CONSTRUCTION FROM:

A. GENERAL OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.

APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.

TEMPORARY STABILIZATION SHALL BE CONDUCTED WITHIN 7 DAYS OF INITIAL DISTURBANCE FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH:

FOR AREAS STABILIZED WITH RIP RAP, PERMANENT STABILIZATION MEANS THAT SLOPES ARE RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL VOLUME SHALL EXCEED A UNIT WEIGHT OF APPROXIMATELY 50 LBS.

FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE EXPOSED DITCH OR INSTALLATION OF CULVERT.

PERENNIAL RYE GRASS: RECOMMENDED SEEDING DATES: 8/15 - 9/15

AROOSTOOK RYE: RECOMMENDED SEEDING DATES: 8/15 - 10/1

APPUCA APPLICATION RATE: 40 LBS/ ACRE

APPUCA APPLICATION RATE: 112 LBS./ACRE

GROUNDWATER PROTECTION. DURING CONSTRUCTION, UNQUID PETROLEUM PRODUCTS AND OTHER NON-SAFE MATERIALS ARE STORED OR HANDLED IN MANUFACTURED IN-PILE STORAGE CONTAINERS OR EQUIVALENT.

1. SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING ACCIDENTALLY OR PURPOSELY RELEASED, AND SPILL CONTAINMENT AND RESPONSE PROTOCOLS MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF MAINE CONSTRUCTION GENERAL PERMIT AND ANY DEP OR MUNICIPAL COMPANION DOCUMENTS, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE PONDED AREA, MUST BE FILTERED THROUGH A DIRT BAG, HAYBALE CORRAL OR OTHER SILTATION PONDS.

"INFILTRAION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, AREAS OF DISTURBED SUBSOIL WITH TOPSOIL OR OTHER ORGANIC AMENDMENTS, AREA WITH MULCH. EROSION CONTROL MIX MAYBE USED AS MULCH FOR PERMANENT STABILIZATION IS ATTAINED.

THE FOLLOWING STANDARDS:

MIXED SIZE COPPER CRACKS AS NEEDED TO ENSURE AGAINST SOIL DISTURBANCE.

"TOP OF HAYBALE AND STAKE)

FULL KEY TO SPECIAL "TOP OF HAYBALE AND STAKE)"

WITH THREADS (TYP.)

-10. BARRIER SHALL NOT BE USED ADJACENT TO WETLANDS
**MAIN STEM RESTORATION PROJECT**

**LONG CREEK WATERSHED MANAGEMENT DISTRICT**

**ST. GERMAN & COLLINS**

**CROSS SECTION VIEW**

**PLAN VIEW**

**SECTION A-A**

**SECTION B-B**

**DETAILS - 1**

MAIN STEM RESTORATION PROJECT  
LONG CREEK  
SOUTH PORTLAND, MAINE

LONG CREEK WATERSHED MANAGEMENT DISTRICT  
35 MAIN STREET, SUITE 3  
WINDHAM, ME 04062

C-302

**FLOODPLAIN WOOD**

**ANCHORING**

**CHANNEL SPANNING LOG JAM**

**PARTIAL AND FULL CHANNEL SPANNING LOG SILL**

**THROUGHLINE WOOD**