Fort Sewall

Fort Restoration - Phase IIB - Site and Accessibility Improvements

Town of Marblehead

Fort Sewall Lane, Marblehead, MA 01945



PRESERVATION ARCHITECT



324 Broadway
Somerville, MA 02145
Phone: 617-625-8901
Fax: 617-625-8902
www.mcginleykalsow.com

LANDSCAPE ARCHITECT



Crowley Cottrell
171 Milk Street, Floor 2
Boston, MA 02109

Phone: 617-338-8400 https://www.crowleycottrell.com/

CLIENT

TOWN OF MARBLEHEAD 188 Washington Street Marblehead, Massachusetts 01945 Phone: (781) 631-0000

BOARD OF SELECTMEN

Name <u>Title</u>

Jackie Belf-Becker
Harry C. Christensen, Jr.
Judith R. Jacobi
James E. Nye
M.C. Moses Grader

FORT SEWALL OVERSIGHT COMMITTEE

Name <u>Title</u>

Rebecca Curran Cutting
Judith Jacobi
Larry Sands
Judy Anderson
Ed Lang
Town Planner
At Large
Glover's Regin
At Large
Disabilities Co

Charles Gessner Peter James Glover's Regiment
At Large
Disabilities Commission
Representative

OMIA Representative
Recreation & Parks
Superintendent

DRAWING LIST

ARCHITECTURAL

Cover Sheet

A1.1 Redoubt Fence Repairs

A1.2 Alternate No. 1: Granite Cannon Silhouettes / Alternate No. 3: Flagpole (Base Detail)

LANDSCAPE

S-000 Site Survey

L-100 Site Demolition Plan

L-200 Site Materials Plan

L-210 Site Layout Plan

L-220 Add Alt. #4 Stone Wall at Gun Platform

L-300 Grading Plan

L-400 Planting Plan

L-500 Paving and Stair Details

L-510 Site Details

L-520 Planting Details

LOCUS PLAN



ALL EXISTING PICKETS IN THIS PANEL TO BE REPLACED WITH NEW TO MATCH EXISTING. SALVAGE USABLE EXISTING PICKETS FOR SELECTIVE PICKET REPLACEMENT.

> REPLACE TOP AND BOTTOM RAILS TO MATCH EXISTING. REFER TO GENERAL NOTES - EXISTING REDOUBT FENCE FOR MORE INFORMATION.

GENERAL NOTE: RECONFIGURE ALL COMPONENTS TO MATCH EXISTING LAYOUT AND DIMENSIONS OF TYPICAL FENCE





BROKEN TOP RAIL

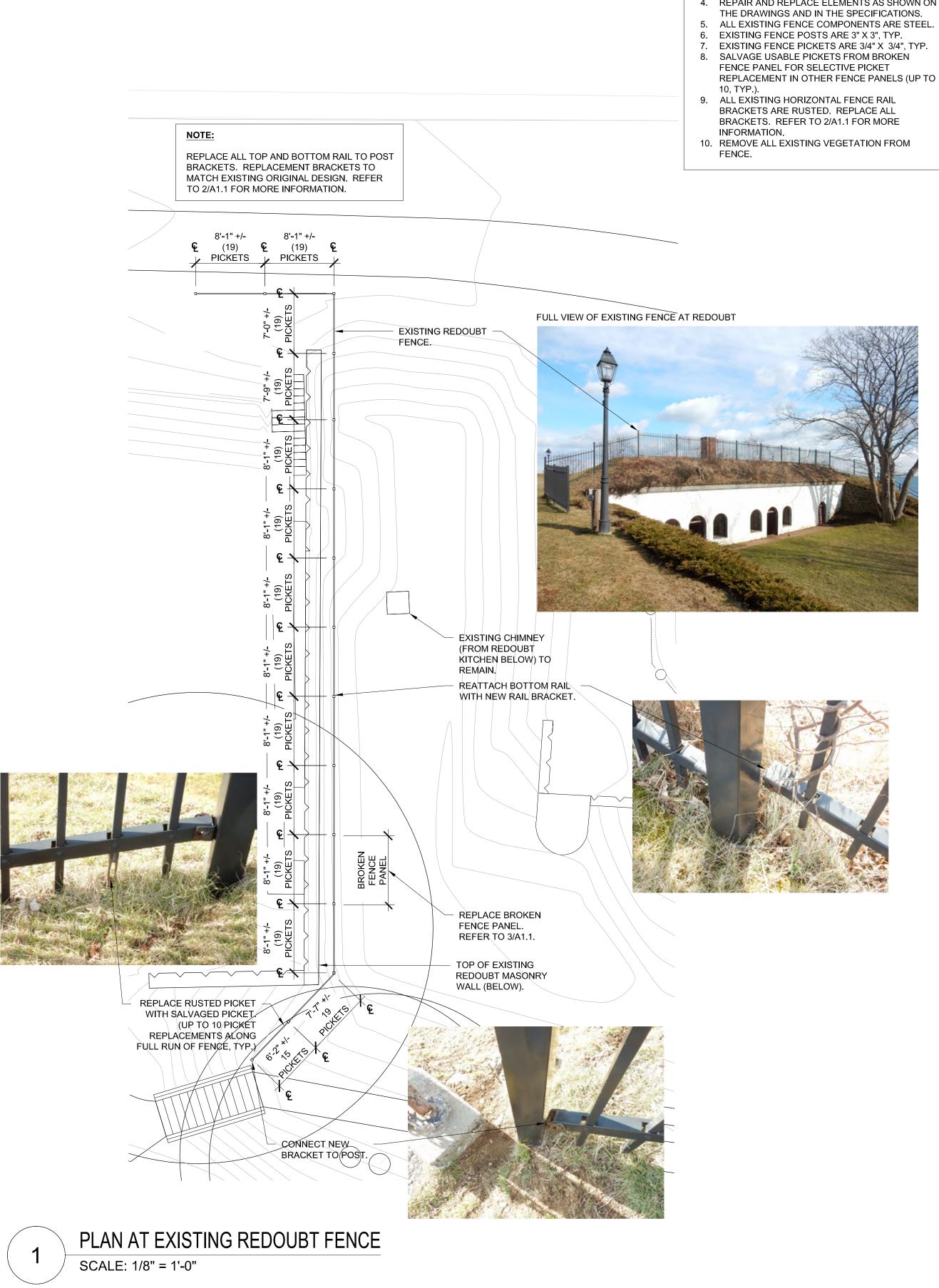


SIDE ELEVATION OF BROKEN FENCE PANEL





ELEVATION OF TYPICAL HORIZONTAL FENCE PANEL NOT TO SCALE





- 1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND QUANTITIES.
- 2. EXISTING FENCE DESIGN SERIES IS
- CANTERBURY (2-RAIL) BY IRON WORLD FENCING. 3. NEW COMPONENTS SHALL MATCH EXISTING.
- 4. REPAIR AND REPLACE ELEMENTS AS SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL EXISTING FENCE COMPONENTS ARE STEEL.
- 7. EXISTING FENCE PICKETS ARE 3/4" X 3/4", TYP.



Impro

Phase ccessibility Fort Restoration Fort Sewall L Marblehead,

BID SET

02/07/2020

Drawn By: EC Reviewed By: WK

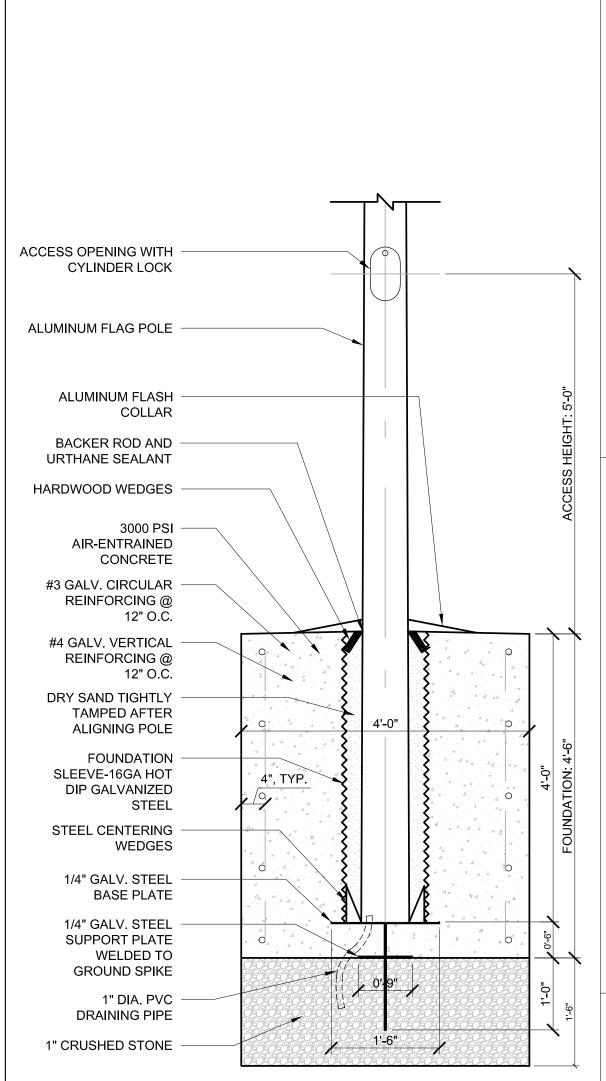
1698.03 Project No:



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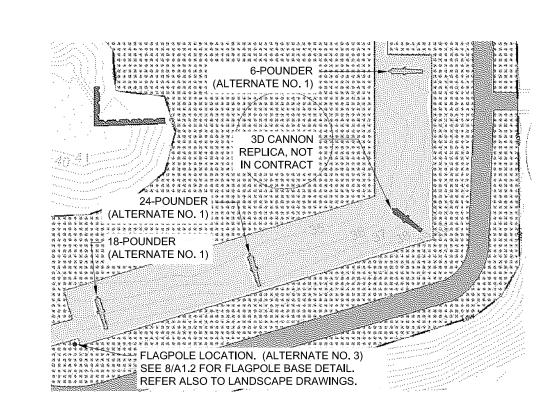
REDOUBT FENCE **REPAIRS**

A1.1

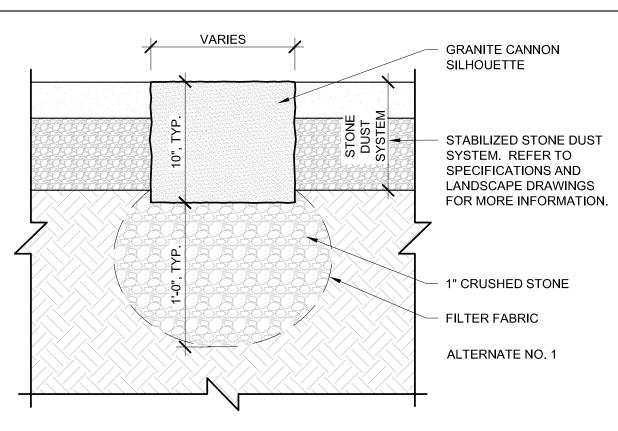


FLAGPOLE BASE DETAIL (ALTERNATE NO. 3)

3/4" = 1'-0"



CANNON SILHOUETTE
AND FLAGPOLE KEY PLAN
NOT TO SCALE



ALTERNATE NO. 1

GRANITE CANNON SILHOUETTE, TYP.

PERFORM SAW CUT AFTER FINISH TREATMENT.

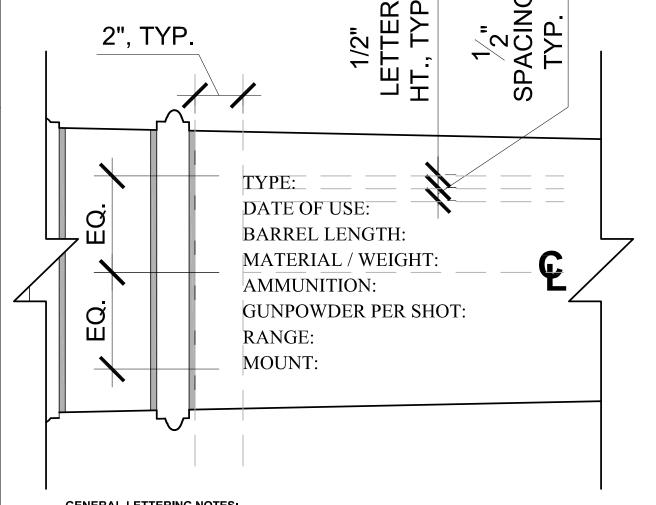
TRANSVERSE SECTION AT GRANITE, TYP.

5 DETAIL AT GRANITE SAW CUT

SCALE: 6" = 1'-0"

SCALE: 1 1/2" = 1'-0"

ALTERNATE NO. 1



GENERAL LETTERING NOTES:

- FONT TO BE TIMES NEW ROMAN.
 LETTERS TO BE ENGRAVED.
- LETTERS TO BE ENGRAVED.
 ENGRAVING INSETS TO BE PAINTED BLACK WITH LITHOCHROME COLOR HARDENER.
- 4. REFER TO SPECIFICATIONS.
- 5. CENTER BODY OF ENGRAVED INSCRIPTION ON CENTERLINE OF CANNON SILHOUETTE.



ENGRAVED INSCRIPTION DETAIL, TYP.

: 3" = 1'-0"

GENERAL NOTES - GRANITE CANNONS - ALTERNATE #1

1. FOR CANNON PROFILES, CAD FILES TO BE FURNISHED TO CONTRACTOR AND FABRICATOR.

CANNON SILHOUETTES TO BE SET IN LOCATIONS AS SHOWN ON 7/A1.2 (KEY PLAN). REFER ALSO TO LANDSCAPE DRAWINGS.
 CANNON SILHOUETTES TO BE SET IN STONE DUST. SEE 6/A1.2. REFER ALSO TO SPECIFICATIONS AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
 CANNON GROOVES TO BE SAW CUT AFTER FINISHING FACE OF GRANITE.

SAW CUT, TYP. REFER TO 5/A1.2.

ALTERNATE NO. 1

9'-0"

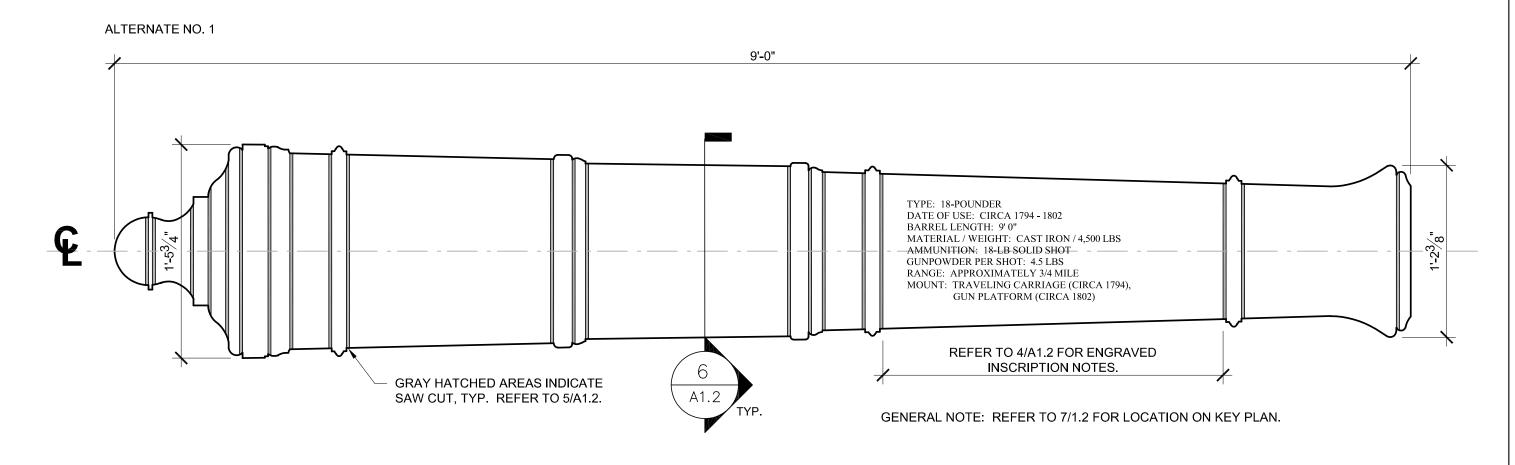
TYPE: 24-POUNDER
DATE OF USE: CIRCA 1794
BARREL LENGTH: 9'0'
MATERIAL VIRGINIT: CAST IRON 15,700 LBS
AVMINITION: 24-B SOLUP SHOT
GRAVE: APPROXIMATELY 1 SMLE
MOUNT: COAST CARRIAGE

REFER TO 4/A1.2 FOR ENGRAVED
INSCRIPTION NOTES.

GENERAL NOTE: REFER TO 7/1.2 FOR LOCATION ON KEY PLAN

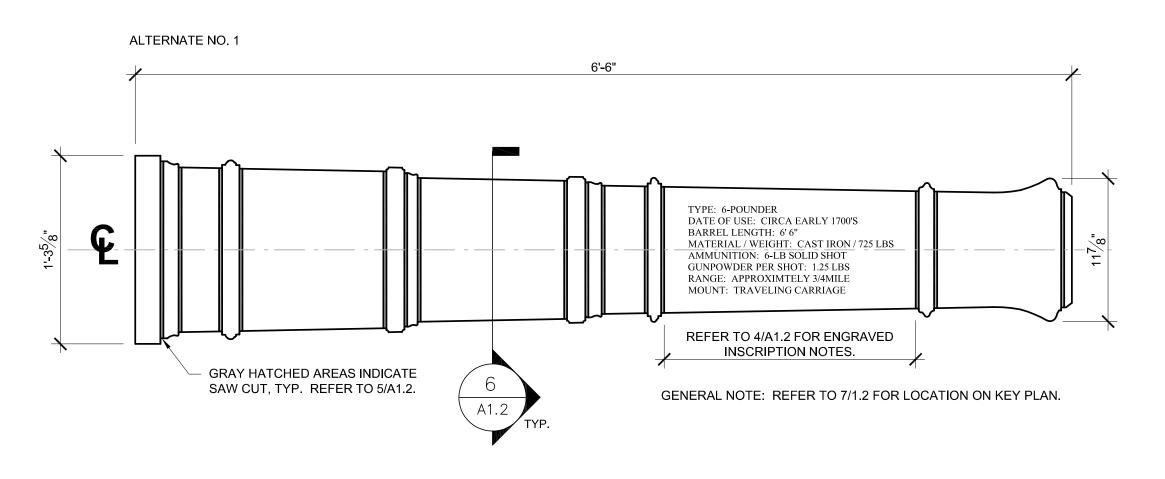
PLAN AT 24-POUNDER CANNON

SCALE: 1 1/2" = 1'-0"



PLAN AT 18-POUNDER CANNON

SCALE: 1 1/2" = 1'-0"



PLAN AT 6-POUNDER CANNON SCALE: 1 1/2" = 1'-0"



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0194

Fort Sewall L Marblehead,

EC

BID SET

Date: 02/07/2020

Reviewed By: WK

Drawn By:

Project No: 1698.03

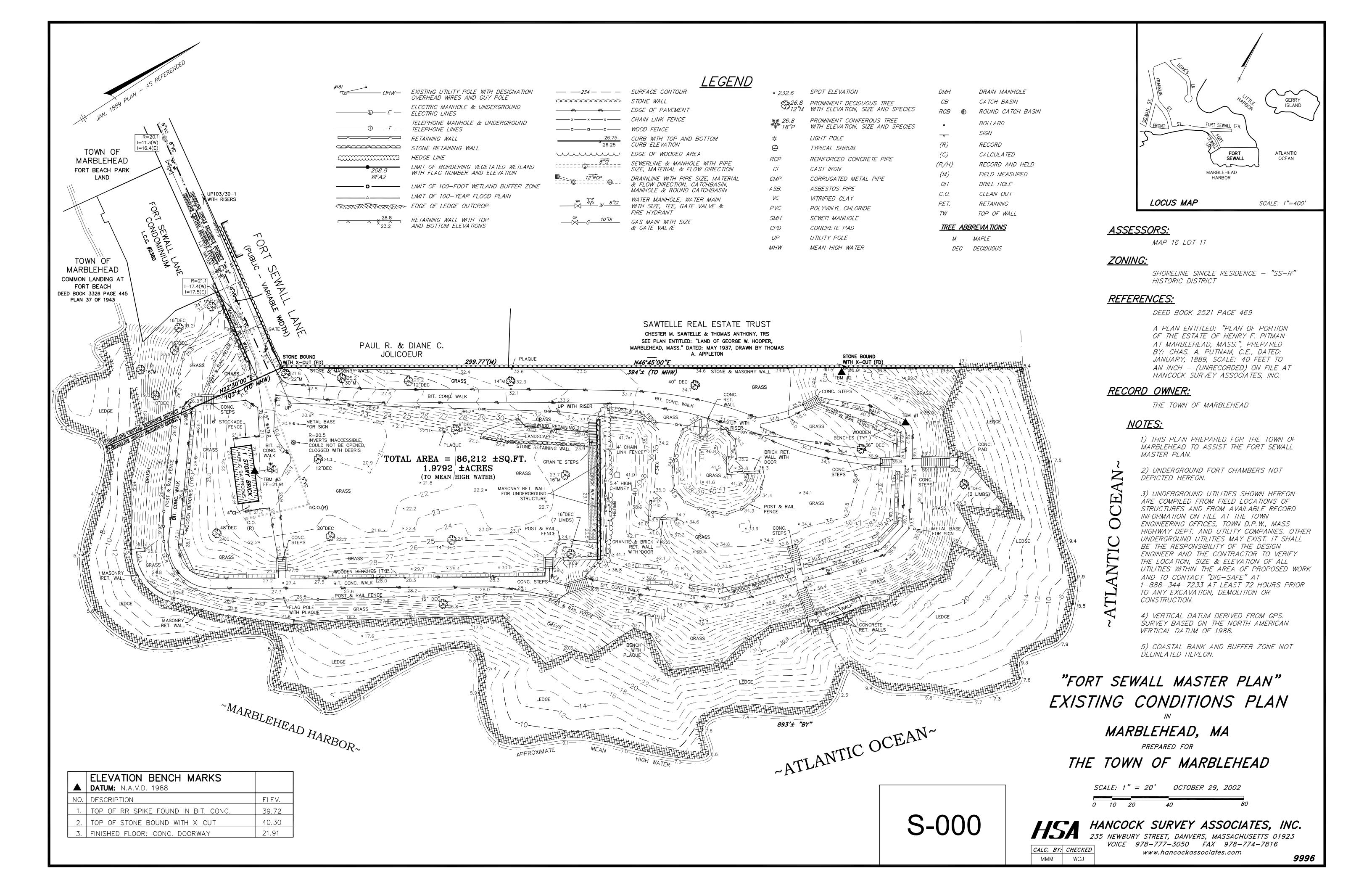


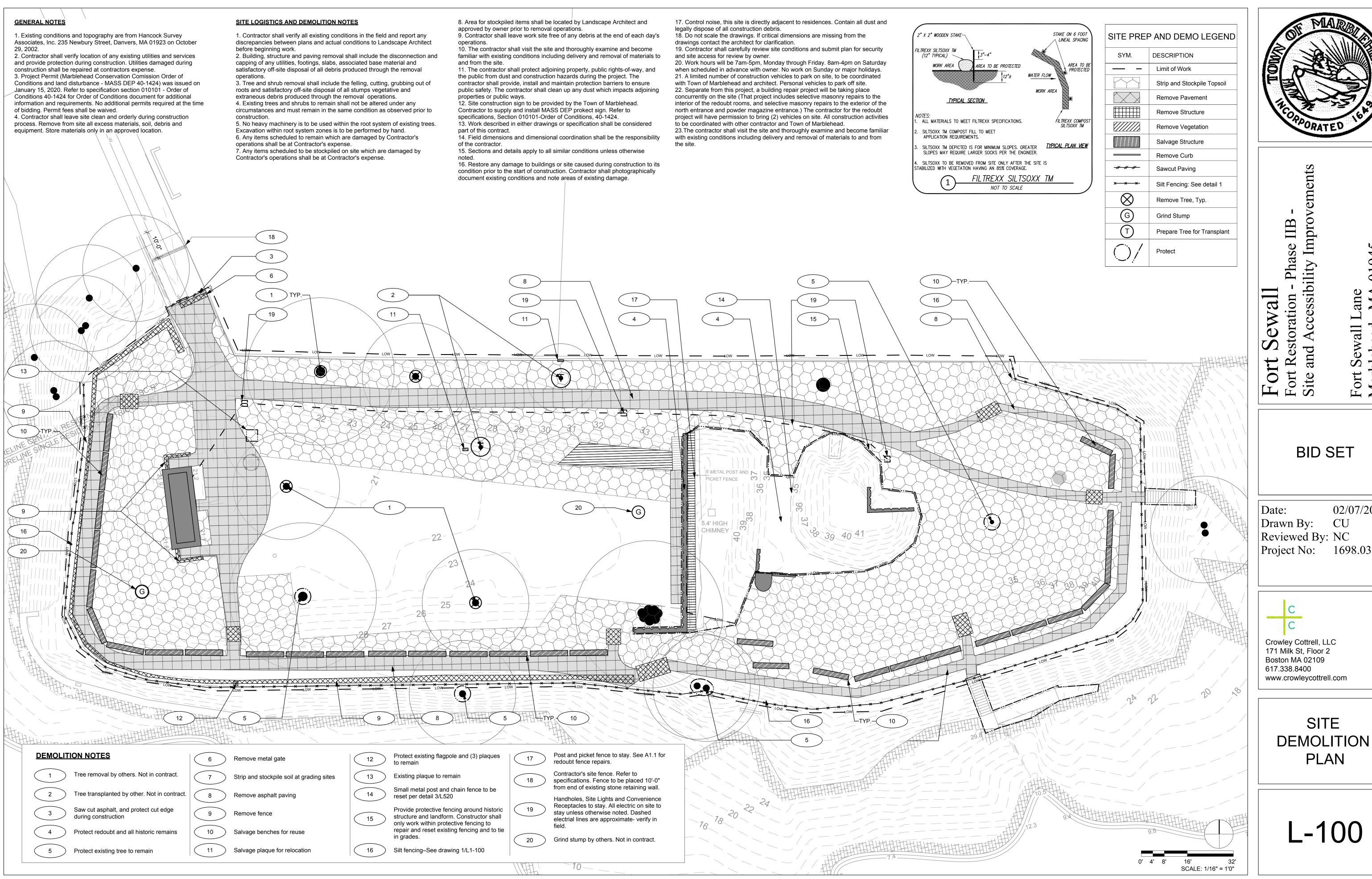
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> ALTERNATE NO.1: GRANITE CANNON SILHOUETTES

ALTERNATE NO. 3: FLAGPOLE (BASE DETAIL)

A1.2







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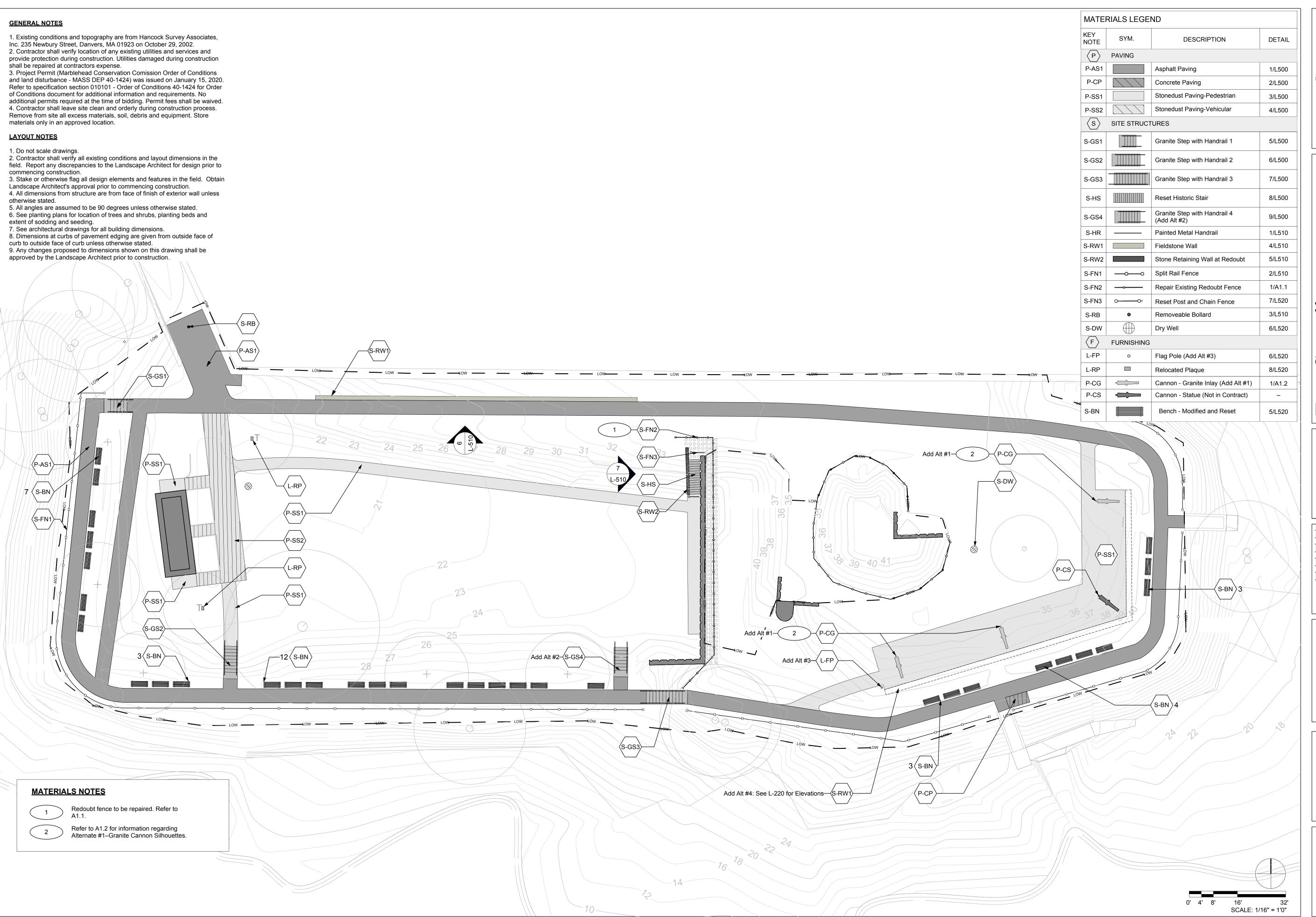
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Fort Sewall L Marblehead,

02/07/20 Drawn By: Reviewed By: NC

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> SITE **DEMOLITION** PLAN





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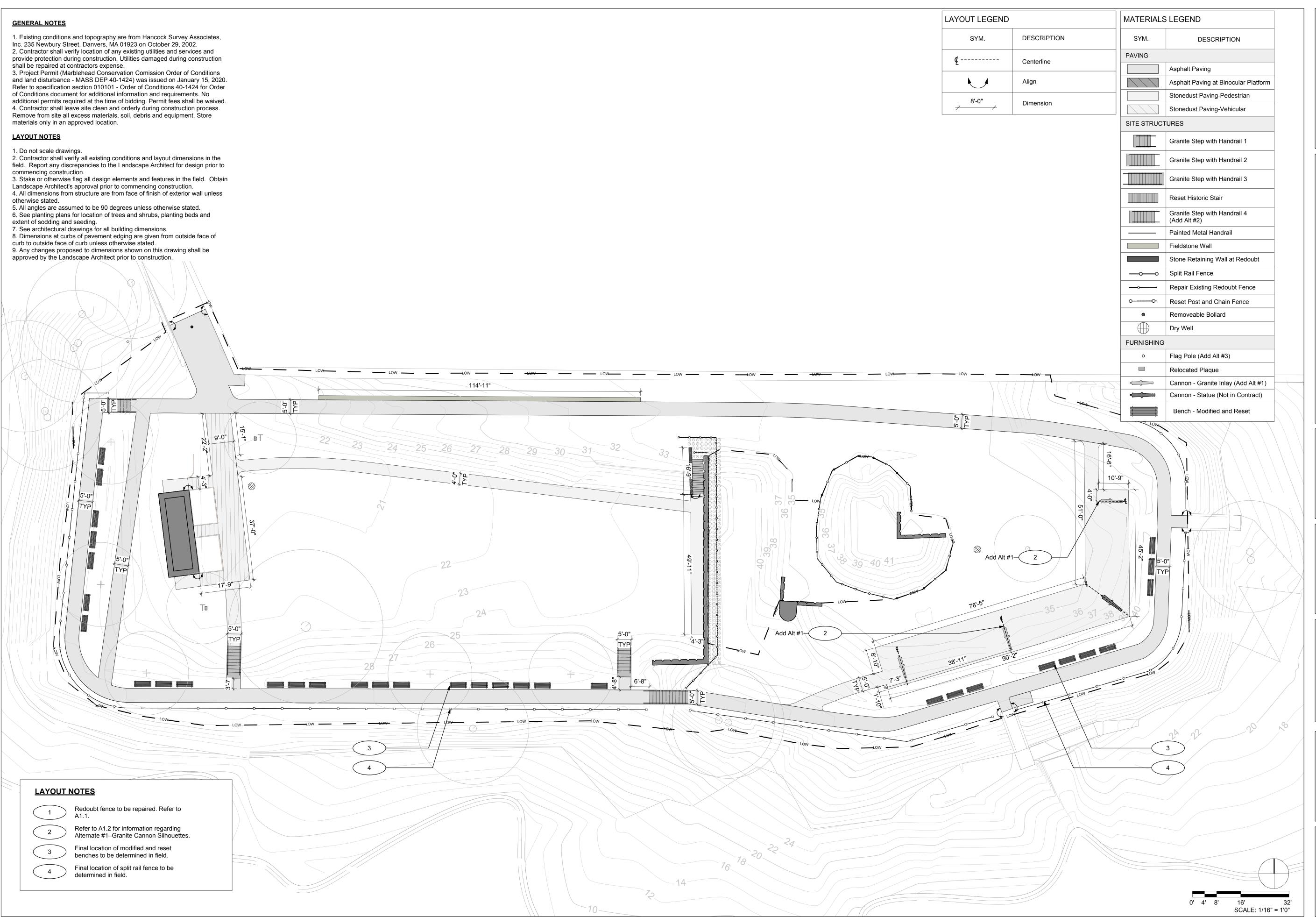
Fort Sewall L Marblehead,

Date: 02/07/20
Drawn By: CU
Reviewed By: NC
Project No: 1698.03



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> SITE MATERIALS PLAN





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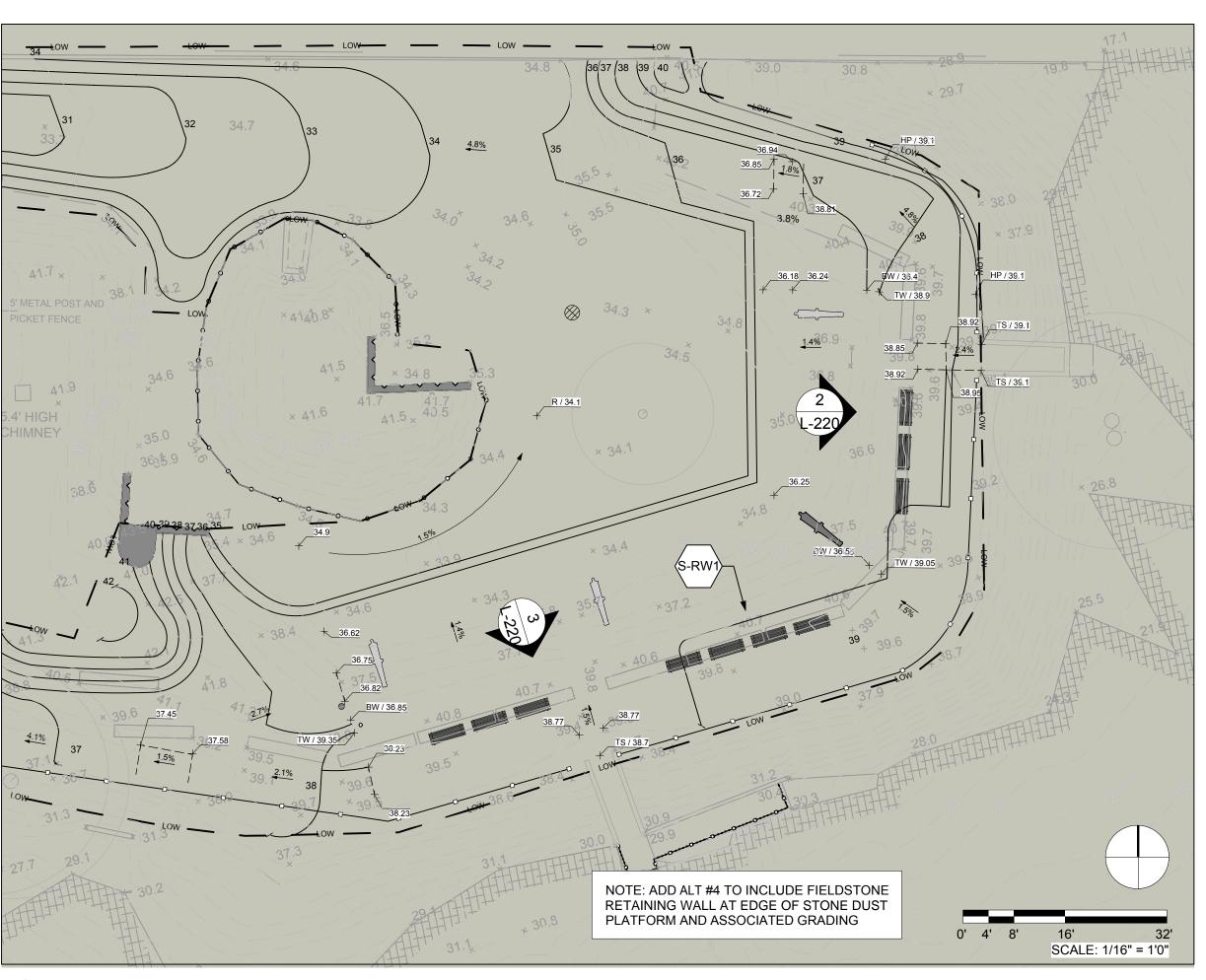
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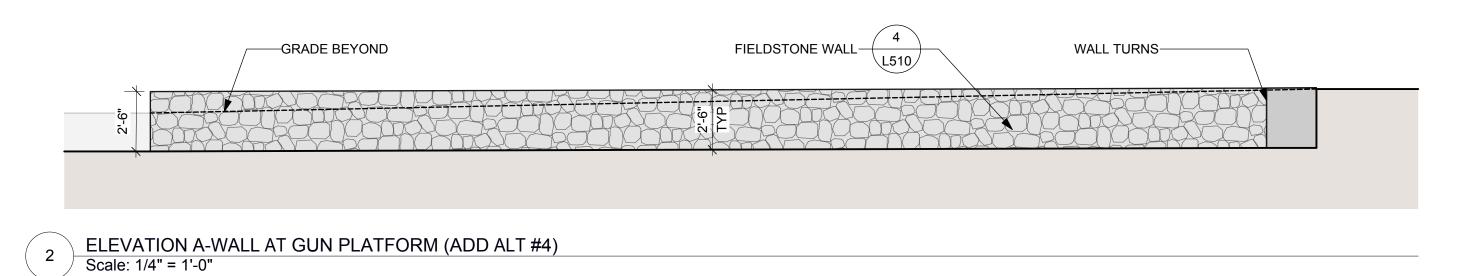


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> SITE LAYOUT PLAN



PLAN-WALL AT GUN PLATFORM (ADD ALT #4)
Scale: 1/16" = 1'-0"



GENERAL NOTES

Existing conditions and topography are from Hancock Survey Associates, Inc. 235 Newbury Street, Danvers, MA 01923 on October 29, 2002.
 Contractor shall verify location of any existing utilities and services and provide protection during construction. Utilities damaged during construction shall be repaired at contractors expense.

3. Project Permit (Marblehead Conservation Comission Order of Conditions and land disturbance - MASS DEP 40-1424) was issued on January 15, 2020. Refer to specification section 010101 - Order of Conditions 40-1424 for Order of Conditions document for additional information and requirements. No additional permits required at the time of bidding. Permit fees shall be waived. 4. Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.

LAYOUT NOTES

Do not scale drawings.

2. Contractor shall verify all existing conditions and layout dimensions in the field. Report any discrepancies to the Landscape Architect for design prior to commencing construction.

3. Stake or otherwise flag all design elements and features in the field. Obtain Landscape Architect's approval prior to commencing construction.
4. All dimensions from structure are from face of finish of exterior wall unless otherwise stated.

5. All angles are assumed to be 90 degrees unless otherwise stated.6. See planting plans for location of trees and shrubs, planting beds and

extent of sodding and seeding.

7. See architectural drawings for all building dimensions.

8. Dimensions at curbs of pavement edging are given from outside face of curb to outside face of curb unless otherwise stated.9. Any changes proposed to dimensions shown on this drawing shall be

approved by the Landscape Architect prior to construction.

MATE	RIALS LEGEI	ND			
KEY NOTE	SYM.	DESCRIPTION	DETAIL		
P	PAVING				
P-AS1		Asphalt Paving	1/L500		
P-CP		Concrete Paving	2/L500		
P-SS1		Stonedust Paving-Pedestrian	3/L500		
P-SS2		Stonedust Paving-Vehicular	4/L500		
S SITE STRUCTURES					
S-GS1		Granite Step with Handrail 1	5/L500		
S-GS2		Granite Step with Handrail 2	6/L500		
S-GS3		Granite Step with Handrail 3	7/L500		
S-HS		Reset Historic Stair	8/L500		
S-GS4		Granite Step with Handrail 4 (Add Alt #2)	9/L500		
S-HR		Painted Metal Handrail	1/L510		
S-RW1		Fieldstone Wall	4/L510		
S-RW2		Stone Retaining Wall at Redoubt	5/L510		
S-FN1		Split Rail Fence	2/L510		
S-FN2	—	Repair Existing Redoubt Fence	1/A1.1		
S-FN3	0	Reset Post and Chain Fence	7/L520		
S-RB	0	Removeable Bollard	3/L510		
S-DW		Dry Well	6/L520		
F	FURNISHING				
L-FP	0	Flag Pole (Add Alt #3)	6/L520		
L-RP		Relocated Plaque	8/L520		
P-CG	<	Cannon - Granite Inlay (Add Alt #1)	1/A1.2		
P-CS		Cannon - Statue (Not in Contract)	_		
S-BN		Bench - Modified and Reset	5/L520		

GRADING LEGEND					
SYM.	DESCRIPTION				
149	Proposed Minor Contour				
150	Proposed Major Contour				
29	Existing Contour				
	Grade Break				
+ 37.2	Proposed Spot Elevation				
× 34.2	Existing Spot Elevation				
<u>2%</u> ►	Slope				
	Flush				
+HP	High Point				
+LP	Low Point				



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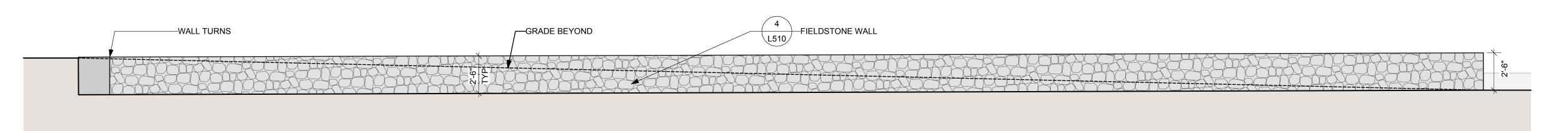
Date: 02/07/20
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ADD ALT #4 STONE WALL AT GUN PLATFORM

L-220



3 ELEVATION B-WALL AT GUN PLATFORM (ADD ALT #4)
Scale: 1/4" = 1'-0"

GENERAL NOTES

 Existing conditions and topography are from Hancock Survey Associates,
 Inc. 235 Newbury Street, Danvers, MA 01923 on October 29, 2002.
 Contractor shall verify location of any existing utilities and services and provide protection during construction. Utilities damaged during construction shall be repaired at contractors expense.

3. Project Permit (Marblehead Conservation Comission Order of Conditions and land disturbance - MASS DEP 40-1424) was issued on January 15, 2020. Refer to specification section 010101 - Order of Conditions 40-1424 for Order of Conditions document for additional information and requirements. No additional permits required at the time of bidding. Permit fees shall be waived. 4. Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.

GRADING NOTES

Contractor shall verify all existing grades in the field and report any discrepancies immediately to the landscape architect.
 Stake proposed finish grade and cut/fills of existing grade in the field.

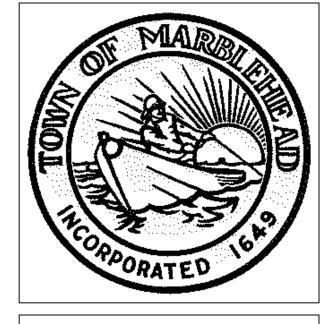
Obtain Landscape Architect's approval prior to commencing construction. 3. Slope away from all buildings.

4. Provide vertical curves or roundings at abrupt changes in grade unless otherwise noted. Blend new earthwork smoothly into existing grades. 5. Maintain existing grades at existing plant material to remain

6. Grade surfaces to assure positive drainage from all structures and to prevent ponding of surface drainage.

7. All fill material is subject to approval by Landscape Architect.
8. Pitch evenly between spot grades. All paved areas must pitch to drain at a minimum of 1/8" per foot. Any discrepancies not allowing this to occur shall be

GRADING LEGEND				
SYM.	DESCRIPTION			
149	Proposed Minor Contour			
150	Proposed Major Contour			
_ 29	Existing Contour			
	Grade Break			
37.2	Proposed Spot Elevation			
× 34.2	Existing Spot Elevation			
2%	Slope			
	Flush			
+HP	High Point			
+LP	Low Point			



Phase IIB -ility Improv Accessibility Fort Restoration - Site and Accessib

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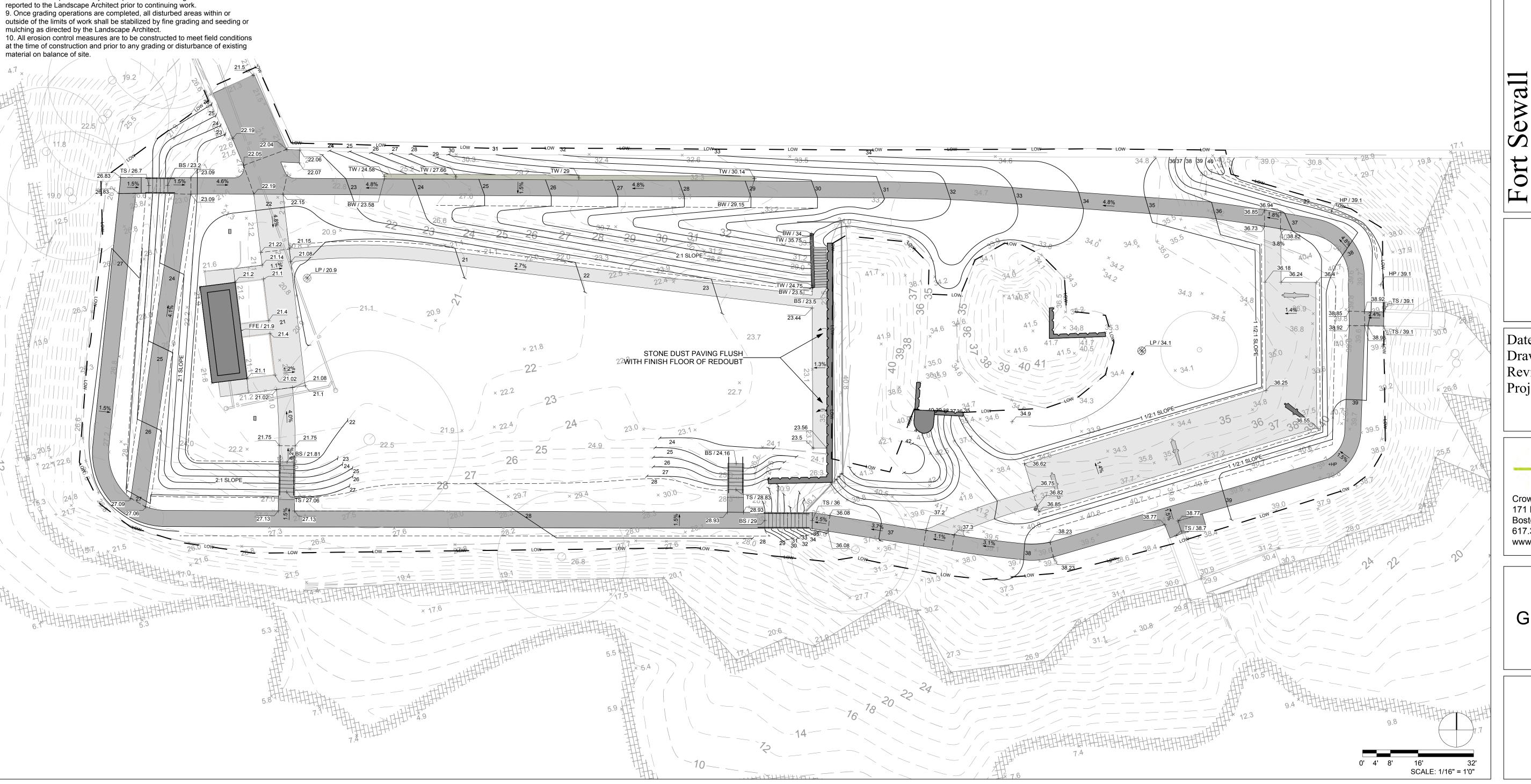
Fort Sewall L Marblehead,

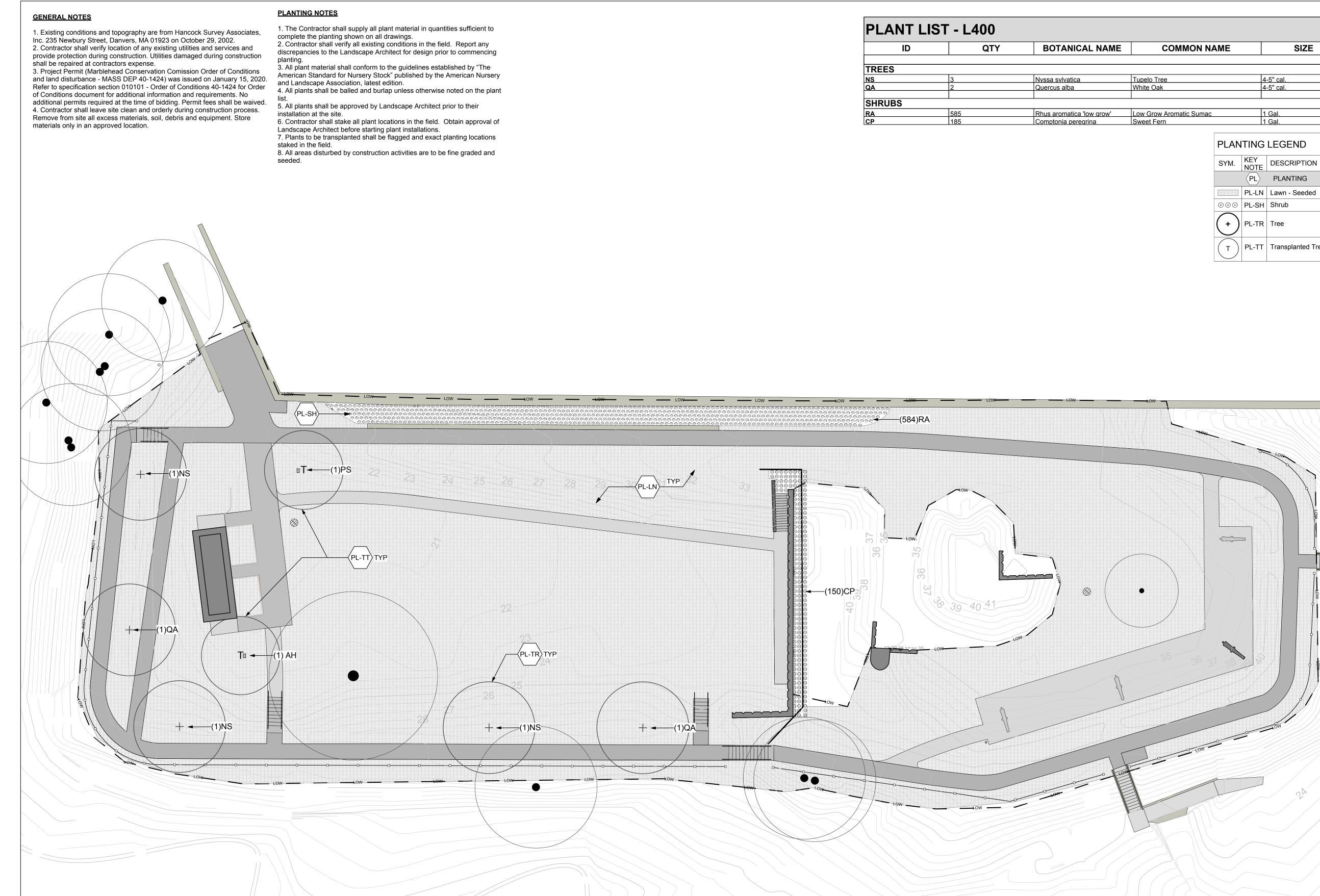
Date: 02/07/20 Drawn By: CU Reviewed By: NC Project No: 1698.03

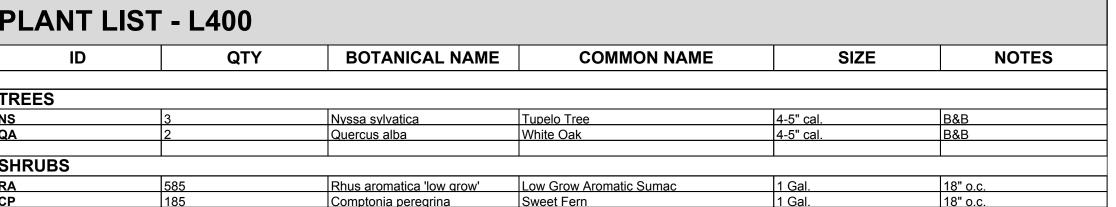


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GRADING PLAN







PLANTING LEGEND						
SYM.	KEY NOTE	DESCRIPTION	DETAIL/ SHEET			
	PL	PLANTING				
	PL-LN	Lawn - Seeded	3/L520			
$\odot \odot \odot$	PL-SH	Shrub	2/L520			
+	PL-TR	Tree	1/L520			
T	PL-TT	Transplanted Tree-Not in Contract	_			



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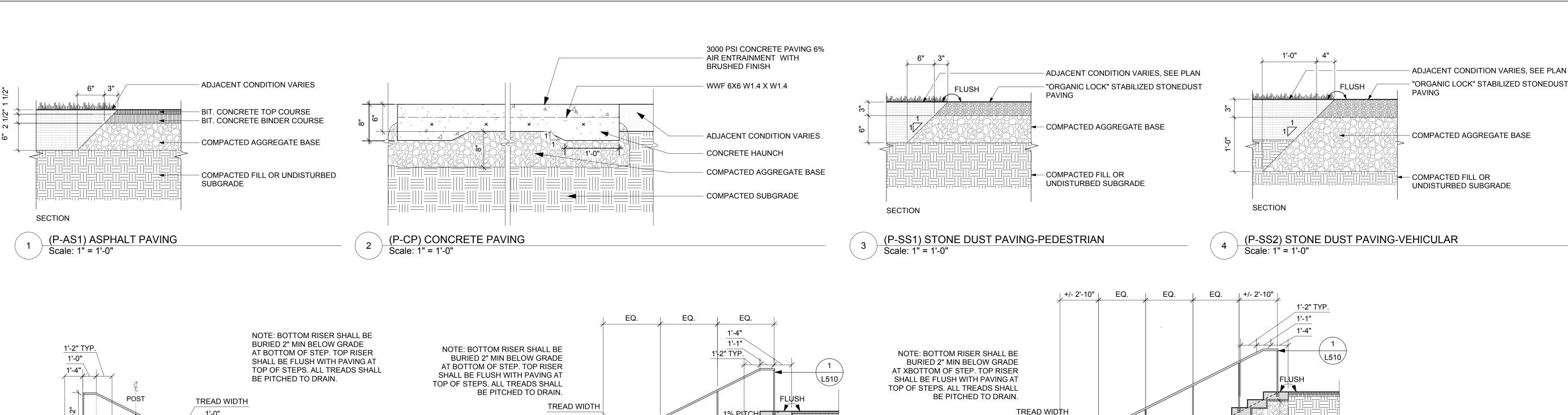
Fort Sewall La Marblehead,

Date: 02/07/20 Drawn By: CU Reviewed By: NC Project No: 1698.03



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> PLANTING PLAN



SECTION

6 (S-GS2) GRANITE STAIR WITH HANDRAIL 2

PAINTED METAL HANDRAIL

1" SAND SETTING BED

ADJACENT GRADE BEYOND-

COMPACTED SUBGRADE -

COMPACTED AGGREGATE BASE -

STABILIZED STONEDUST PAVING

STONE TREAD

8" SONOTUBE-

NOTE: BOTTOM RISER SHALL BE
BURIED 2* MIN BELOW GRADE
AT XBOTTOM OF STEP. TOP RISER
SHALL BE FLUSH WITH PAVING AT
TOP OF STEPS. ALL TREADS SHALL
BE PITCHED TO DRAIN.

TREAD WIDTH

1'-0"

PAINTED METAL HANDRAIL

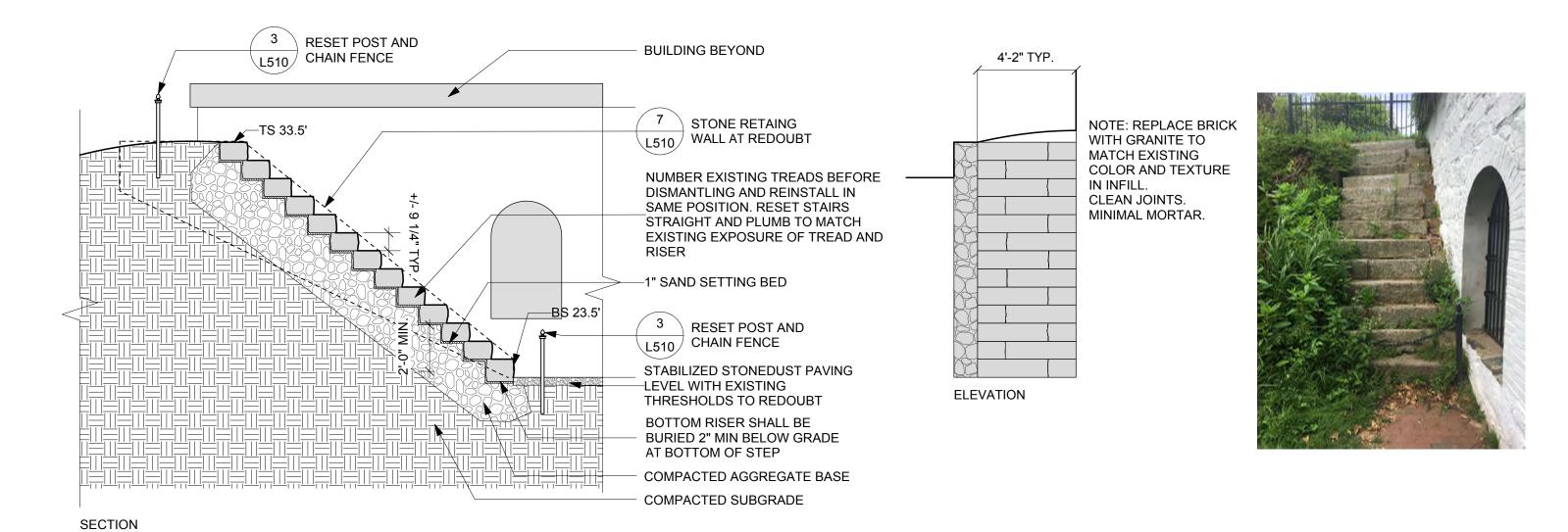
STONE TREAD

8" SONOTUBE

ADJACENT GRADE BEYOND
COMPACTED AGGREGATE BASE
COMPACTED SUBGRADE

SECTION

7 (S-GS3) GRANITE STAIR WITH HANDRAIL 3



PAINTED METAL HANDRAIL

1" SAND SETTING BED

ADJACENT GRADE BEYOND

- COMPACTED SUBGRADE

- COMPACTED AGGREGATE BASE

STONE TREAD

-8" SONOTUBE

(S-GS1) GRANITE STAIR WITH HANDRAIL 1

SECTION

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

(S-HS) RESET HISTORIC STAIR
Scale: 1/4" = 1'-0"

EQ. 1'-4" 1'-1" NOTE: BOTTOM RISER SHALL BE BURIED 2" MIN BELOW GRADE ATBOTTOM OF STEP. TOP RISER SHALLBE FLUSH WITH PAVING AT \L510/ TOP OF STEPS. ALL TREADS SHALL BE PITCHED TO DRAIN. TREAD WIDTH PAINTED METAL HANDRAIL STONE TREAD-1" SAND SETTING BED SONOTUBE ADJACENT GRADE BEYOND COMPACTED AGGREGATE BASE COMPACTED SUBGRADE SECTION

9 (S-GS4) GRANITE STAIR WITH HANDRAIL 4 (ADD ALT #2)
Scale: 1/4" = 1'-0"

MARRIED SPORATED

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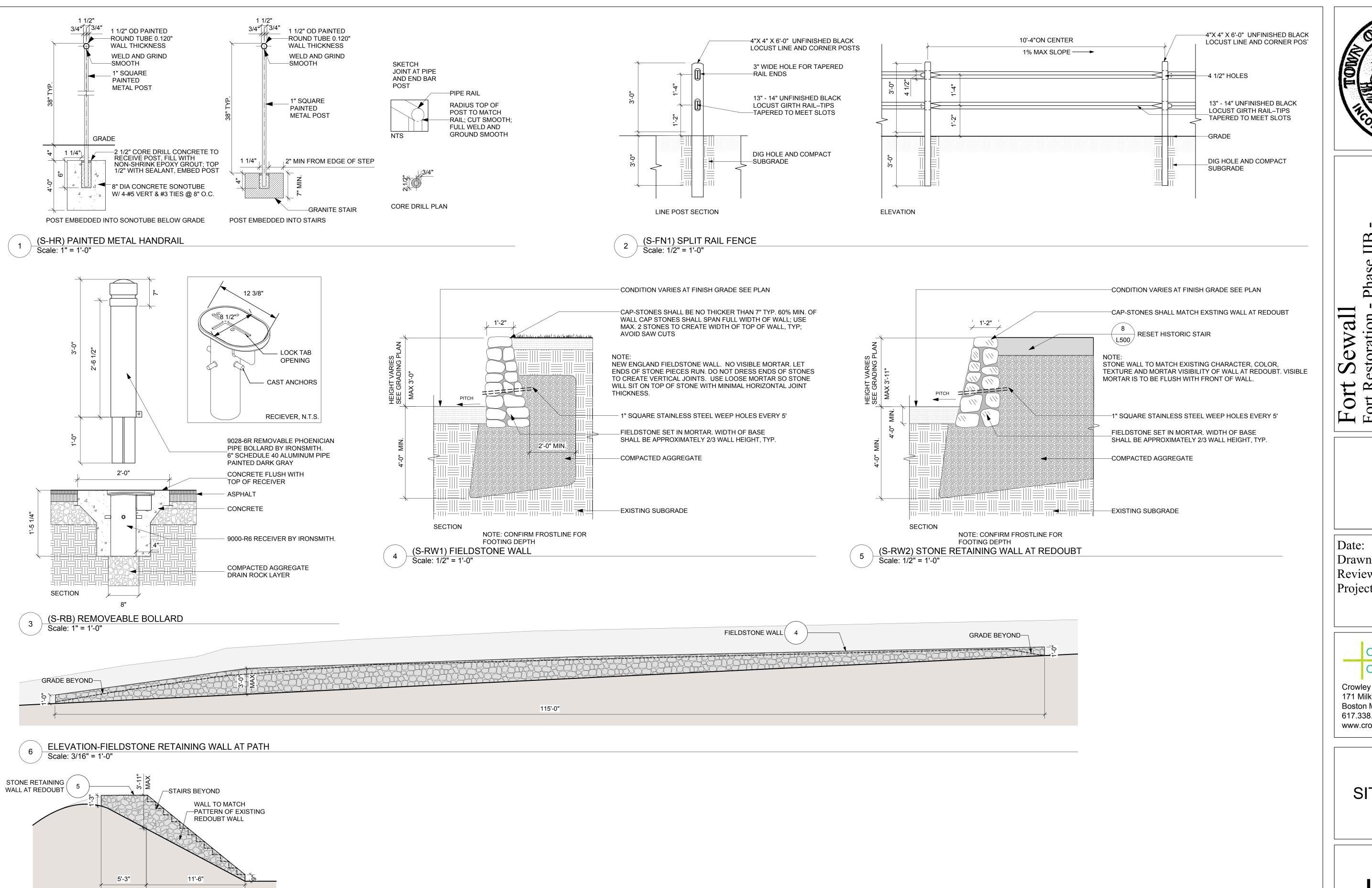
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PAVING AND STAIR DETAILS



ELEVATION-STONE WALL AT REDOUBT Scale: 3/16" = 1'-0"



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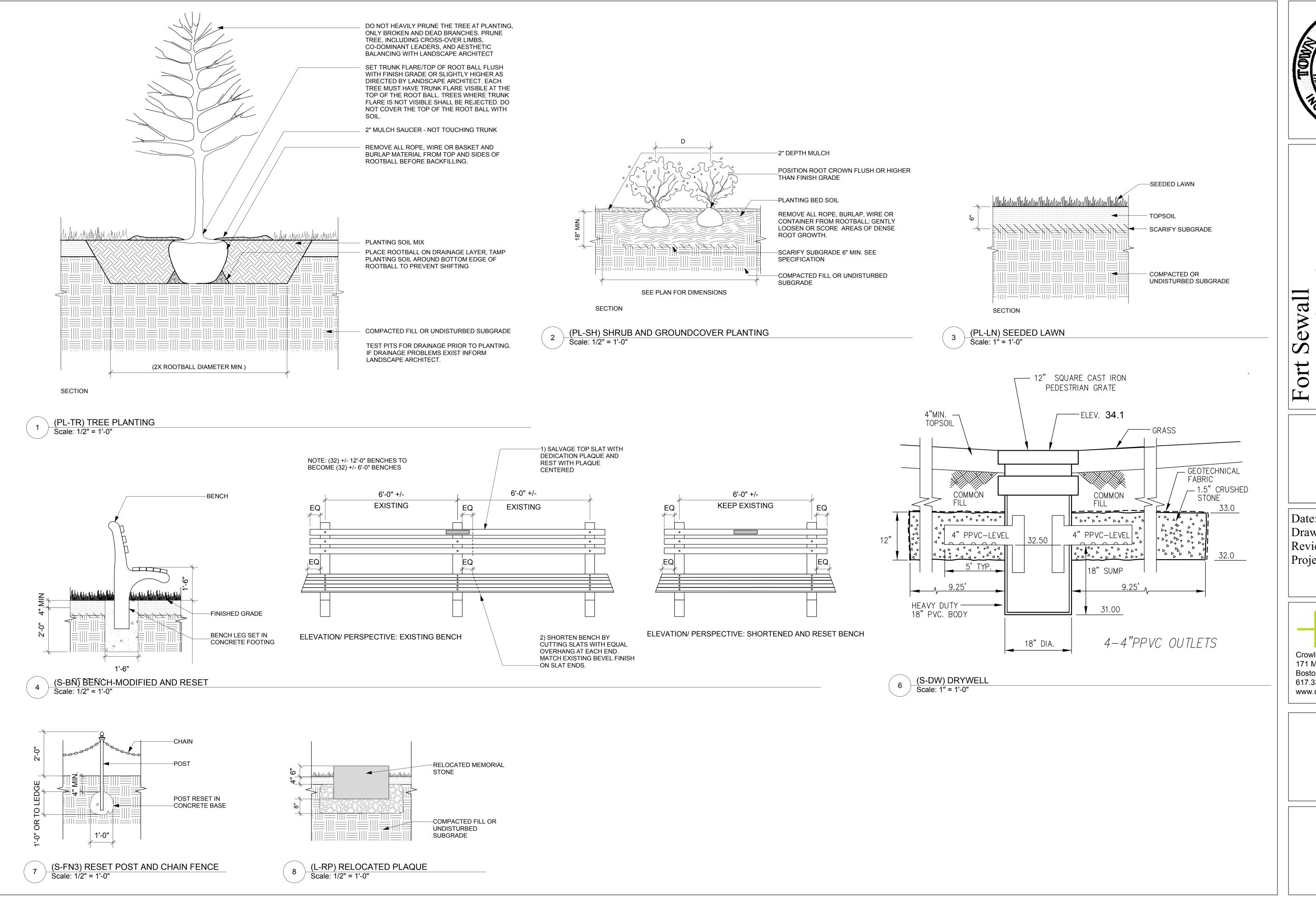
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SITE DETAILS





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Fort Sewall L Marblehead,

Fort Sewall
Fort Restoration - Phase IIB Site and Accessibility Improvem

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PLANTING DETAILS