

Title:	Big Island Nature Park Improvements – Final Design Review
Prepared by:	Name: Janna Jonely and Laura Domyancich Phone: 952.641.4523 & 952.641.4582 jjonely@minnehahacreek.org & Idomyancich@minnehahacreek.org

## **Purpose:**

To provide the Board of Managers with staff's analysis of the final design plans for Big Island Nature Park Improvements (Attachment A).

## Background:

At the January 9, 2020 Board of Managers meeting, staff presented Big Island Nature Park Improvements 80% design plans for Board review. District staff evaluated the plan set under the guidelines set forth in the conservation easement and management plan for Big Island Nature Park. Through this analysis staff found the plan set to be in conformance, and the Board of Managers raised no concerns regarding this determination. The 80% design plan proposed the following improvements:

Proposed improvements in the Natural Areas:

- Conversion of existing trails to ADA standards
- 1:1 sign replacement
- Winter installation of temporary, removable bollards

Proposed improvements in the Recreation Areas:

- Establishment of ADA trail from city docks to visitor center
- Conversion of existing trails to ADA standards
- 1:1 sign replacement
- Installation of vault toilet(s)
- Installation of shade structure and picnic tables

After the January 9, 2020 meeting, staff documented the Board and staff review of 80% design plans in an email to city of Orono staff on January 21, 2020. Over the next several weeks, 95% plans were completed, and District staff reviewed and provided comments.

## **Current Status:**

On February 20, 2020 the District received a draft of Big Island Nature Park Improvements final design. No additional improvements were proposed since the development of 80% design, thus the plan set remains in conformance with the conservation easement and management plan. The final design plan set addresses District staff requests to incorporate a more comprehensive tree protection plan, thorough detail regarding shoreline restoration at the construction access and staging locations, and installation of erosion control practices which will result in less overall land disturbance.

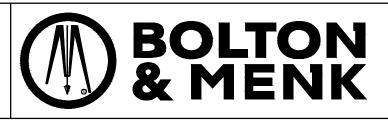
## **Next Steps:**

District staff intends to continue coordinating with city of Orono staff through the permitting and construction process of the Big Island Nature Park Improvements Project.

## Supporting documents:

• Attachment A: Big Island Nature Park Master Plan Final Design





# CITY OF ORONO CONSTRUCTION PLANS FOR **BIG ISLAND NATURE PARK IMPROVEMENTS** FEBRUARY, 2020

12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com

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## SHEET NUMBER

GENERAL

G0.01

TITLE SHEET

SHEET TITLE

## SITE PLANS

L1.01 L1.02 L1.03 L1.04 - L1.11 L1.12

EXISTING CONDITIONS SHEET LAYOUT OVERALL SITE PLAN SITE PLAN & PROFILE DETAIL SITE PLANS

## LANDSCAPE DETAILS

L2.01

L2.02

L2.03

L2.04

LANDSCAPE DETAILS
SITE DETAILS
PICNIC TABLE DETAILS
EROSION CONTROL DETAILS

## TRAIL CROSS SECTIONS

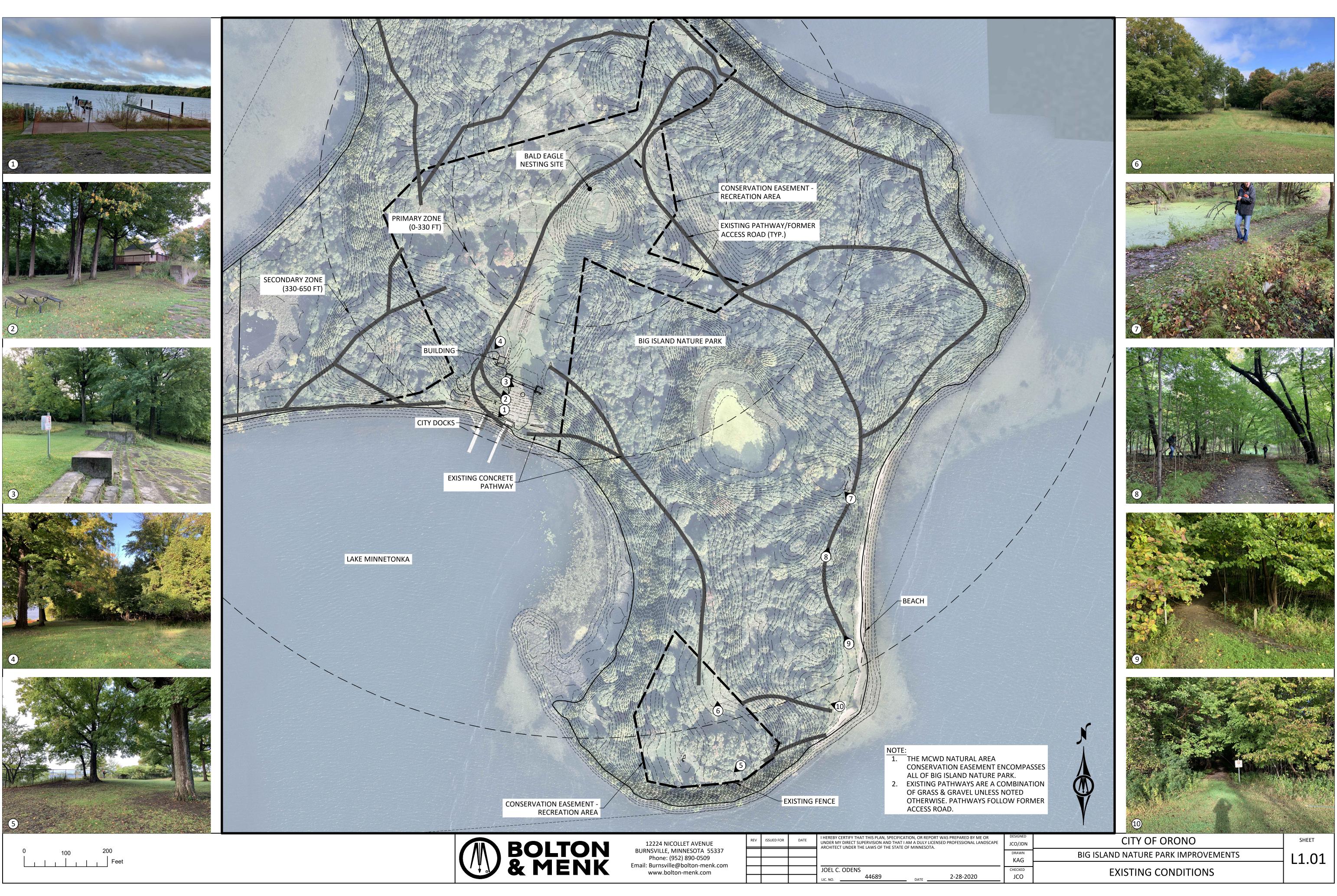
C1.01 - C1.04	
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**CROSS SECTIONS - WEST TRAIL CROSS SECTIONS - EAST TRAIL** 

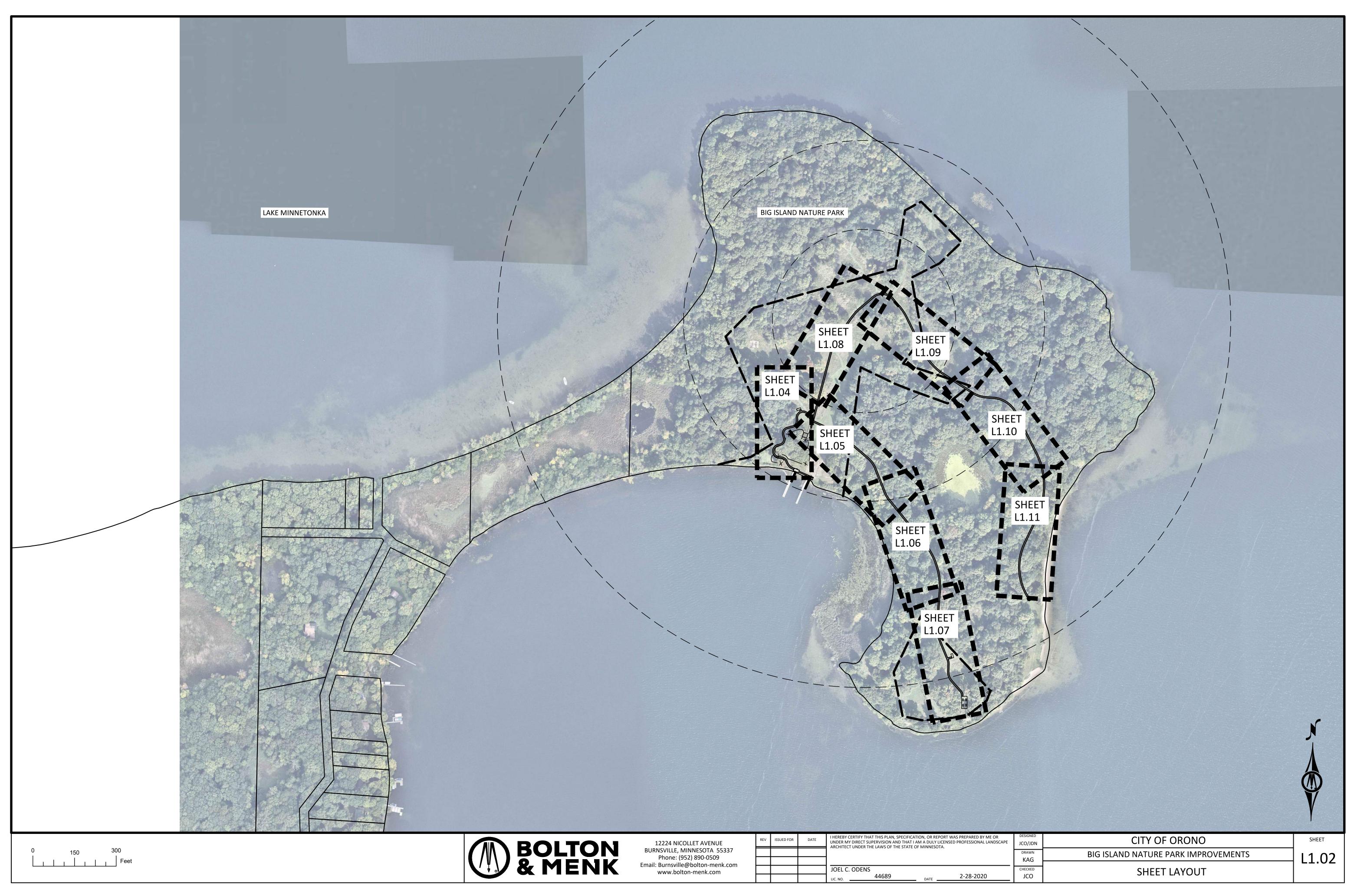
MAP OF THE CITY OF ORONO HENNEPIN COUNTY, MN

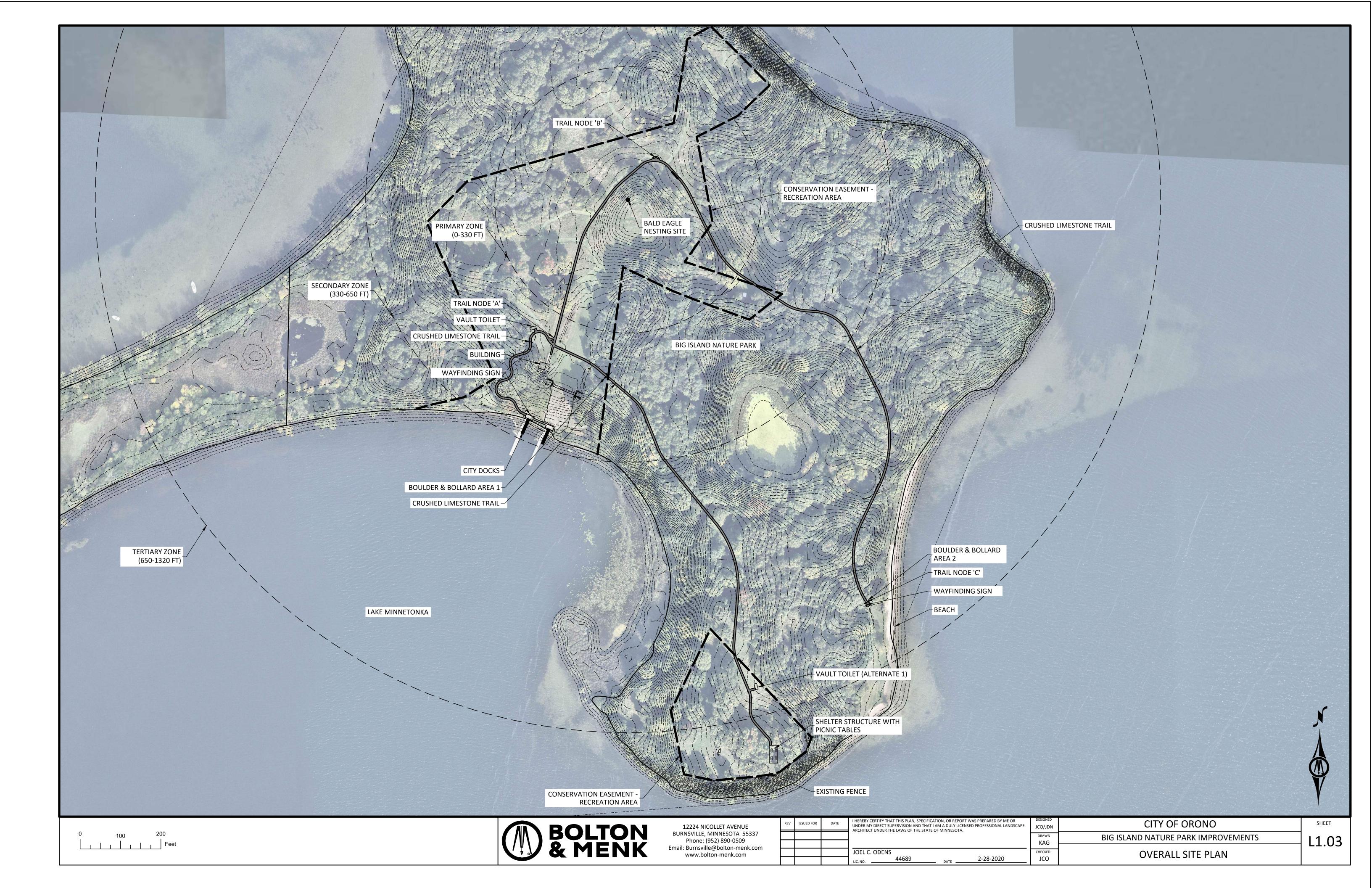


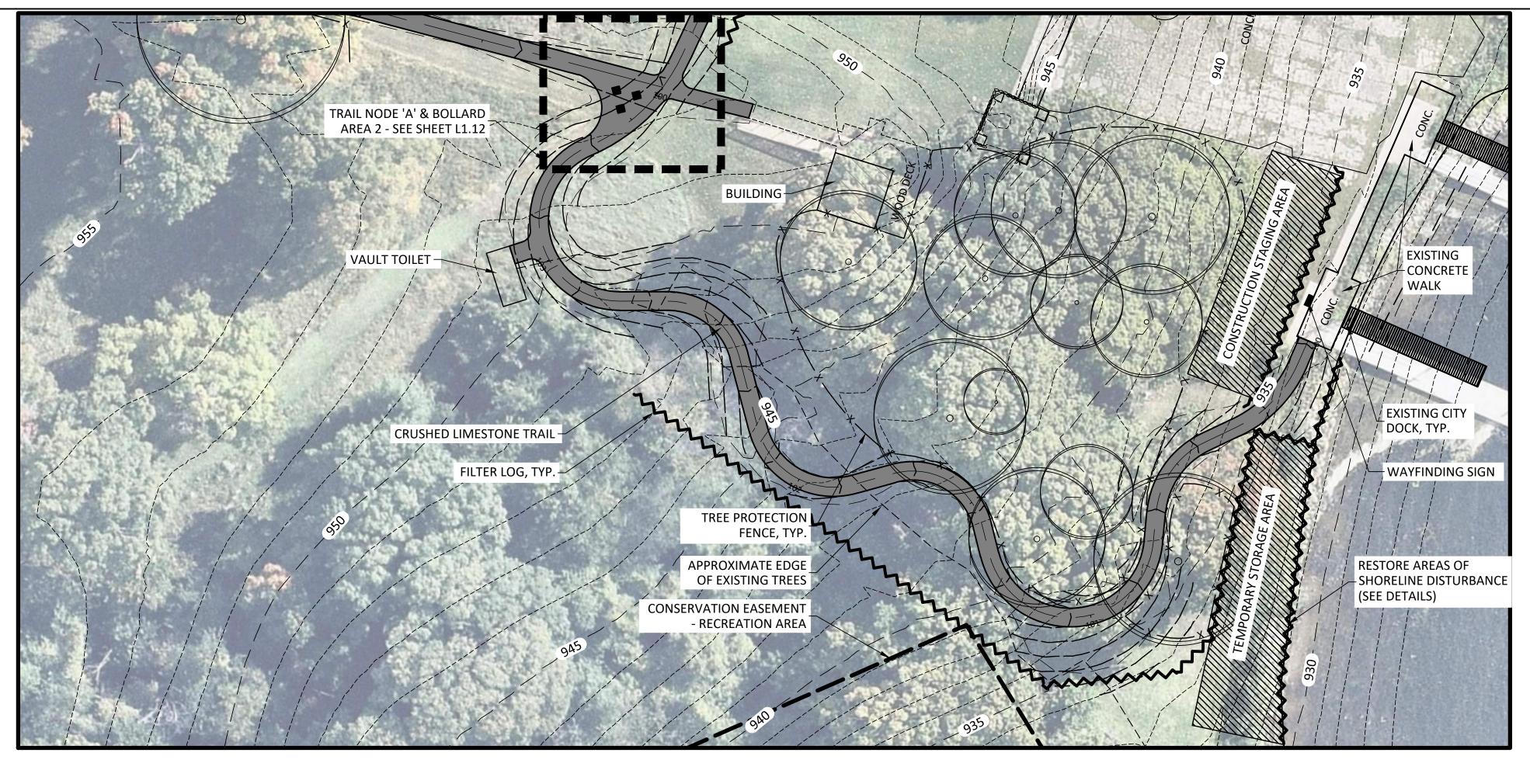
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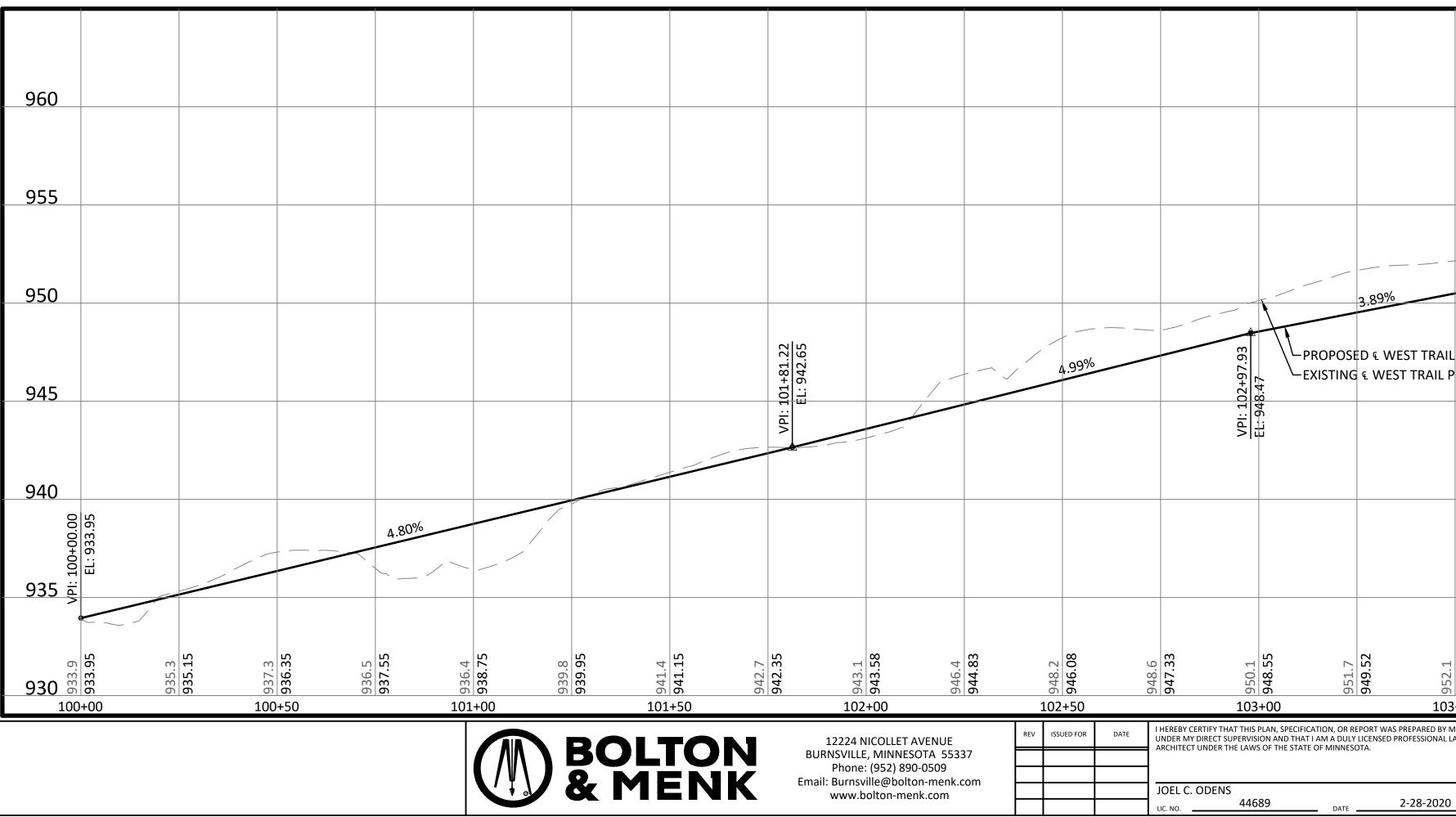


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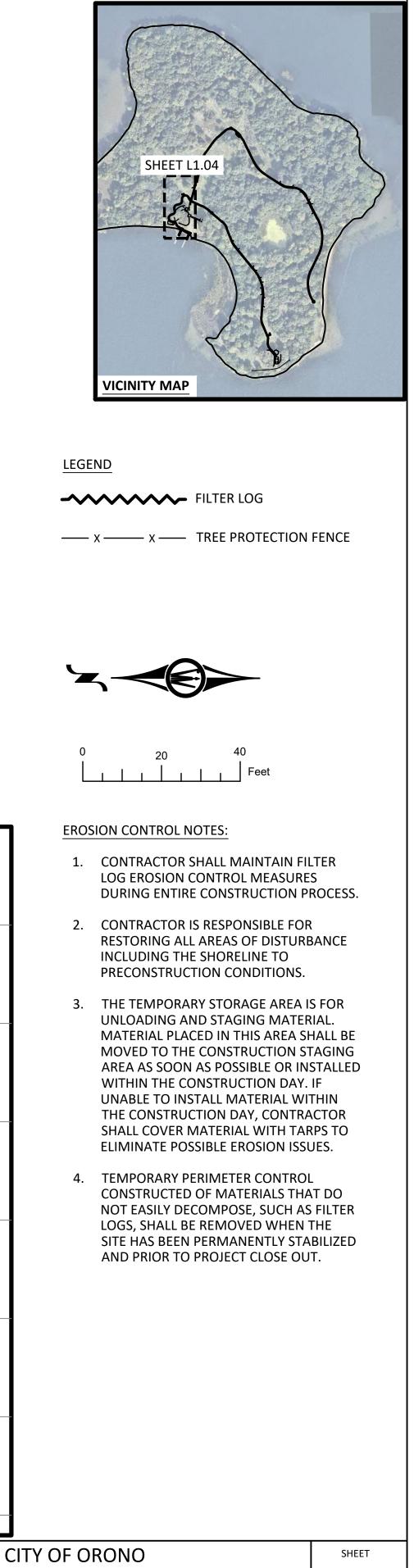




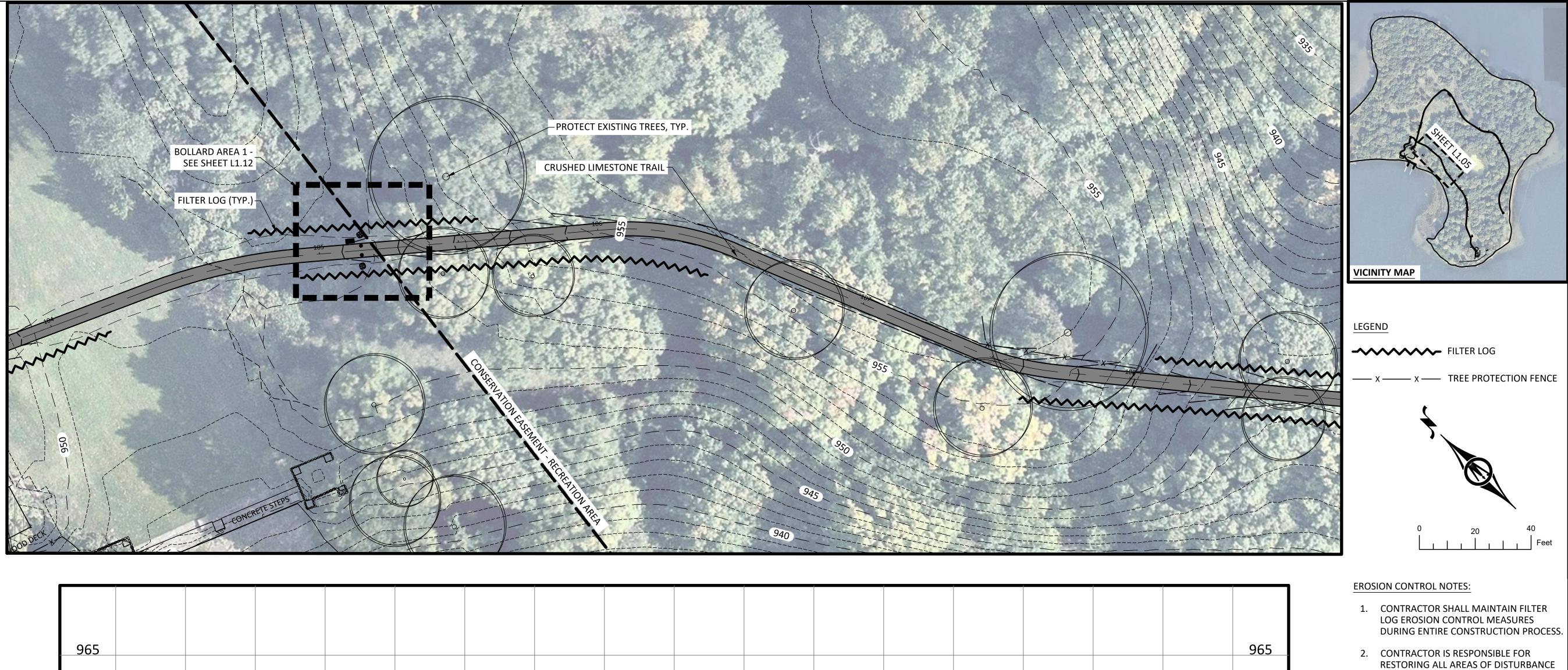




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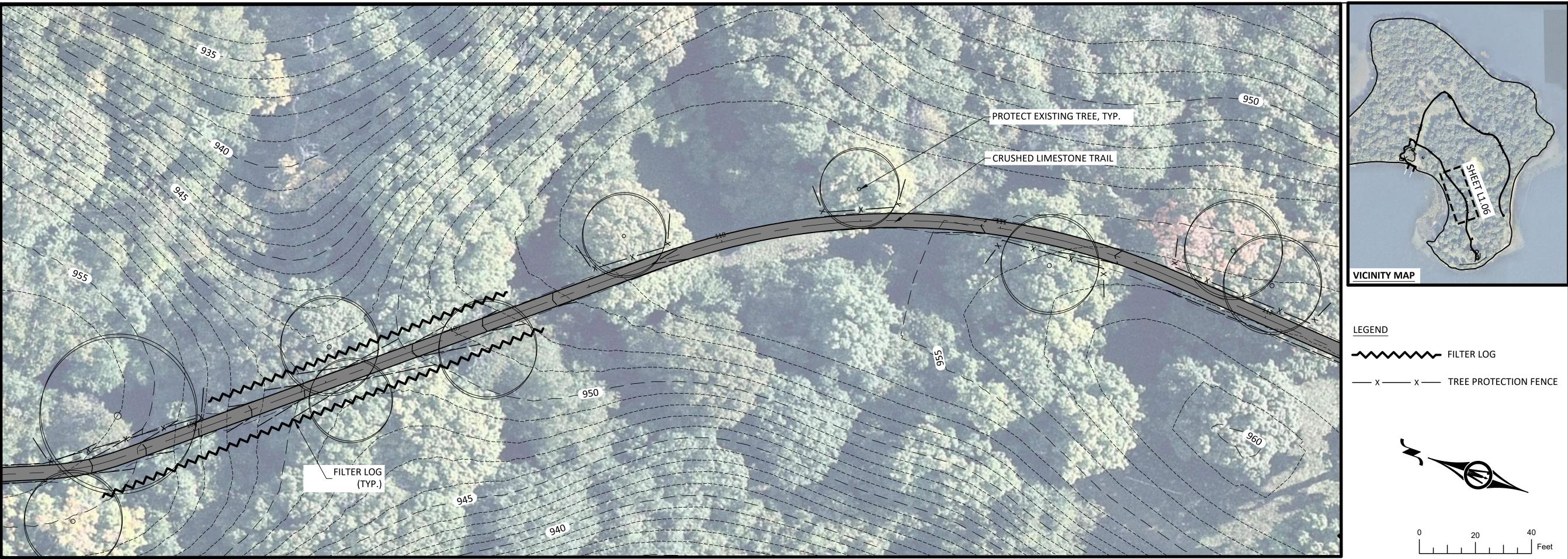


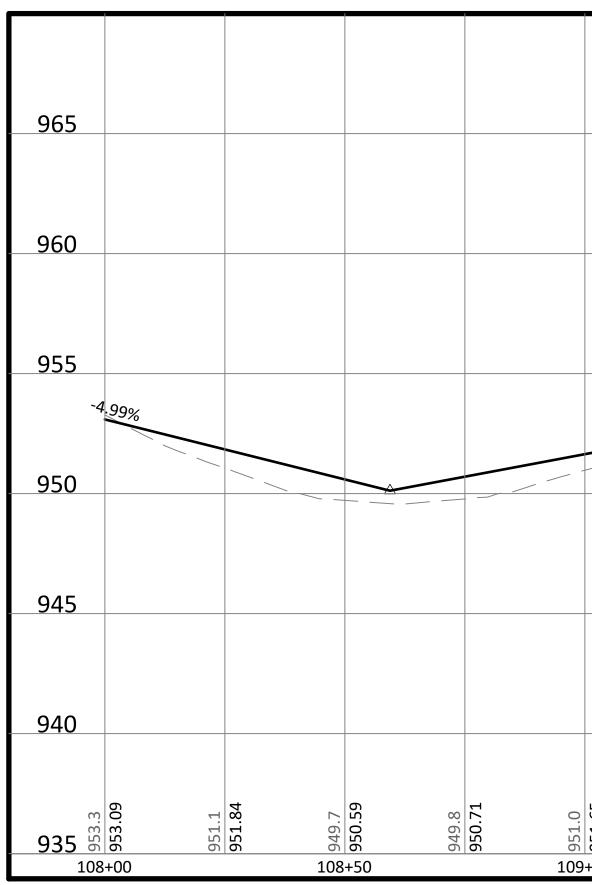
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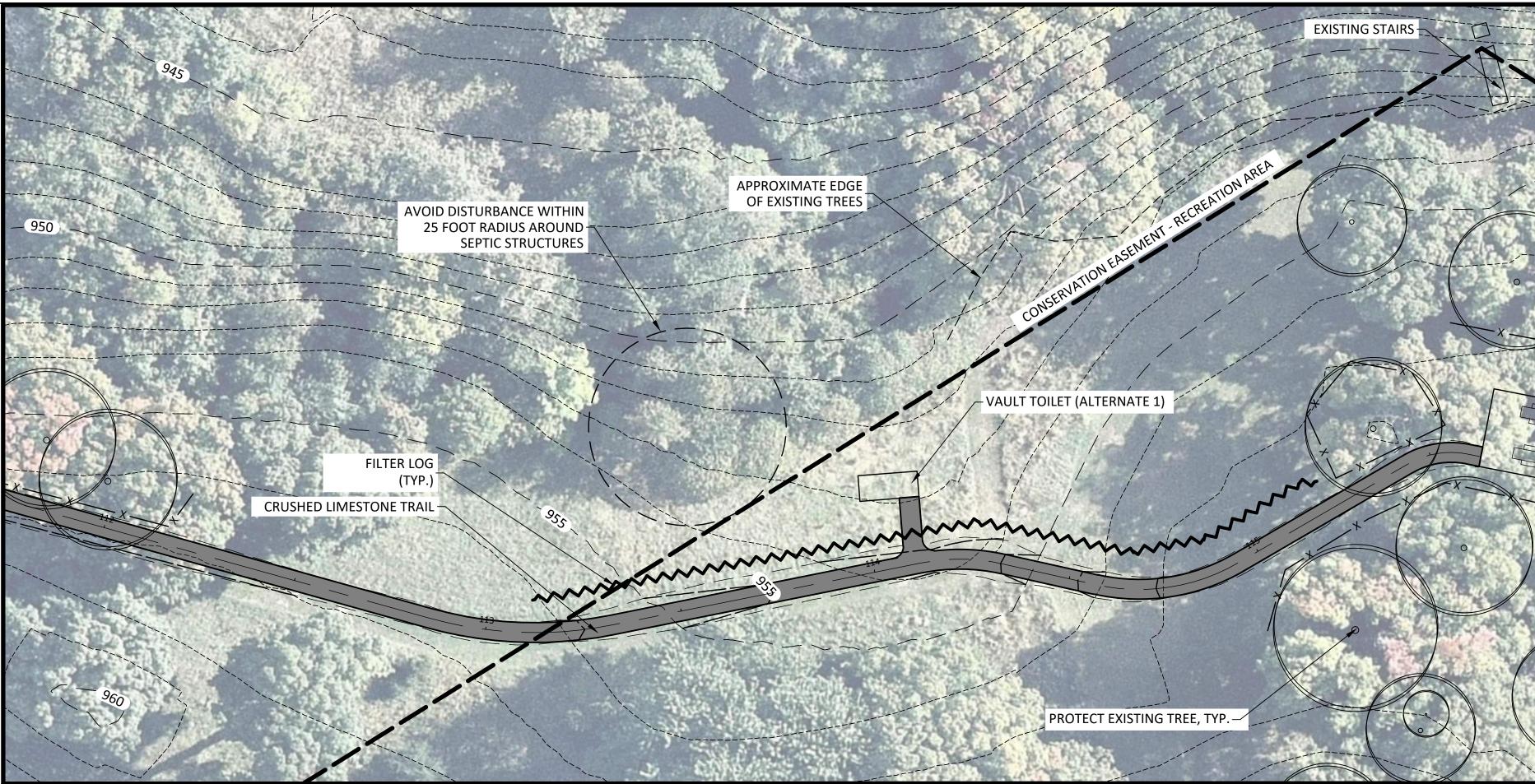






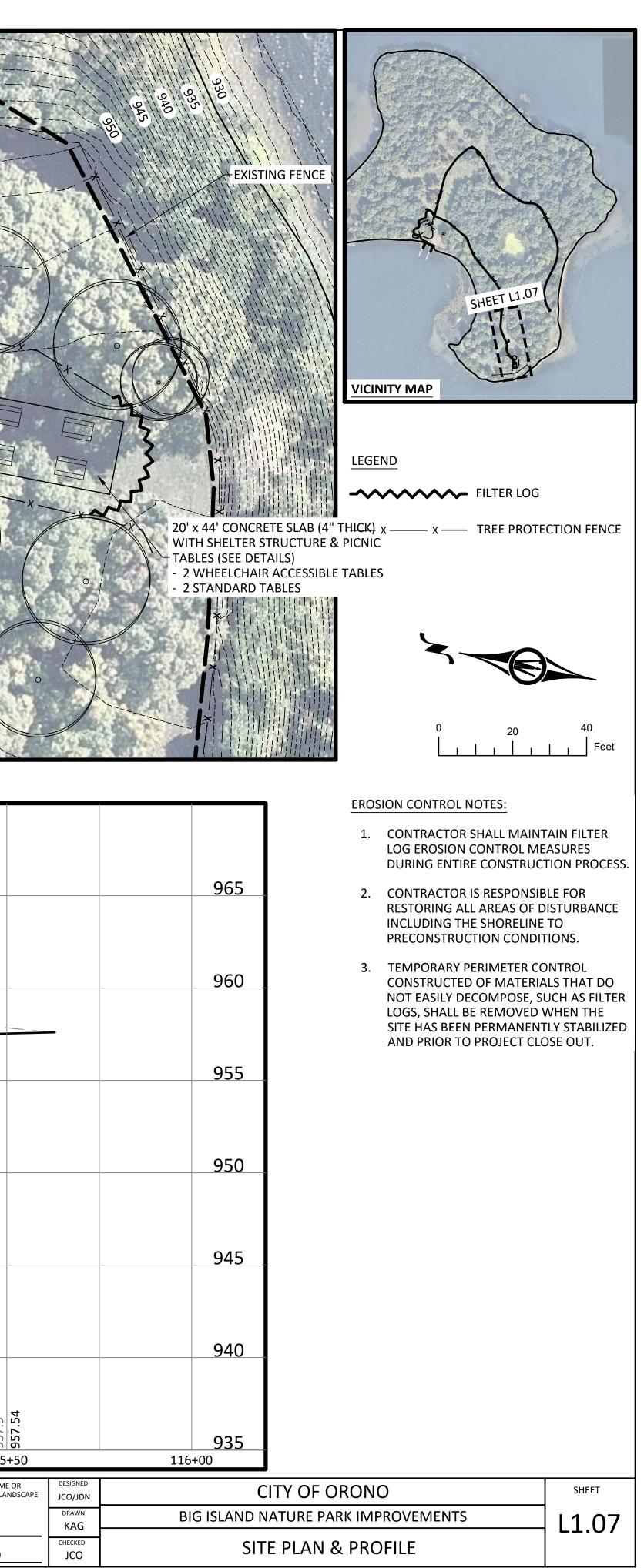
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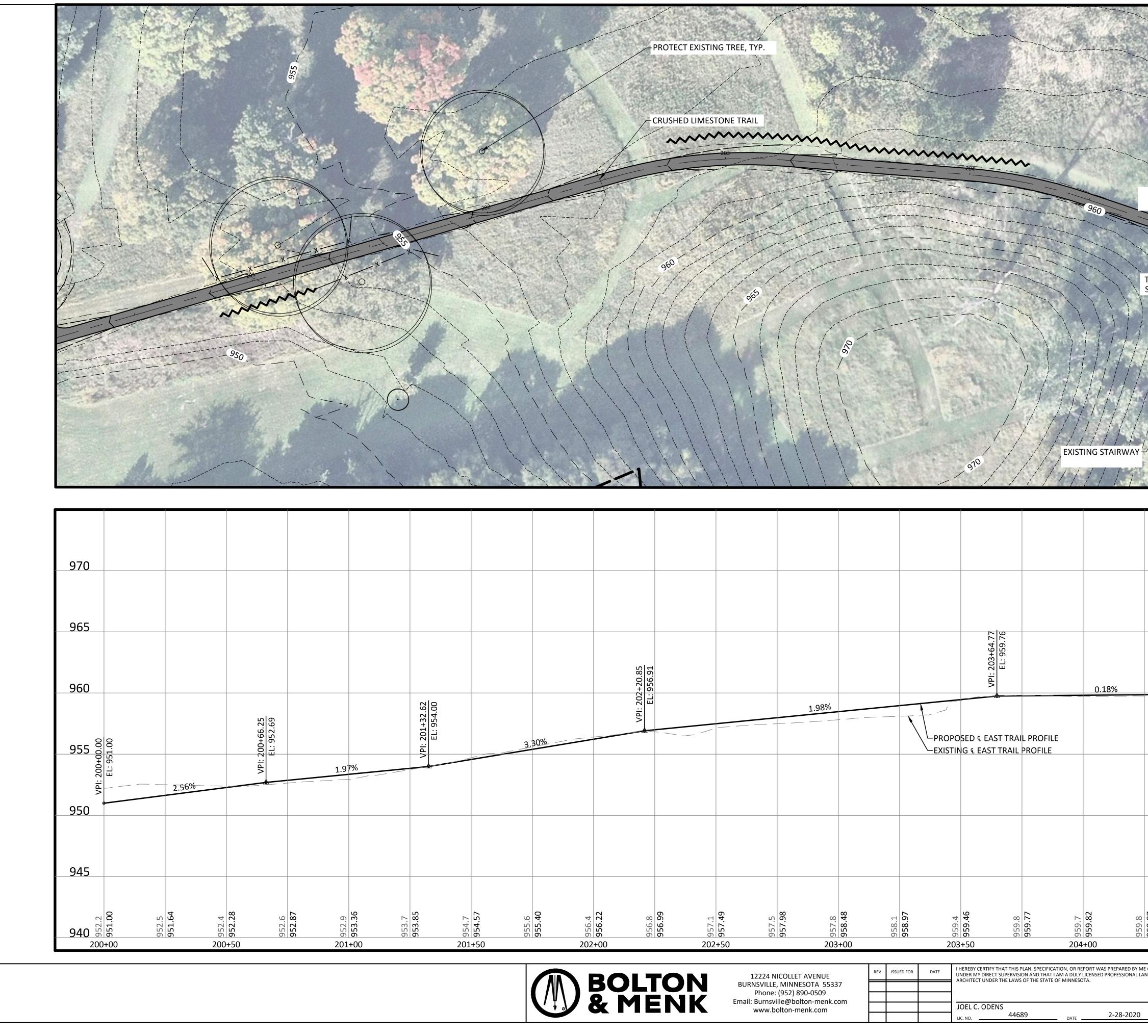
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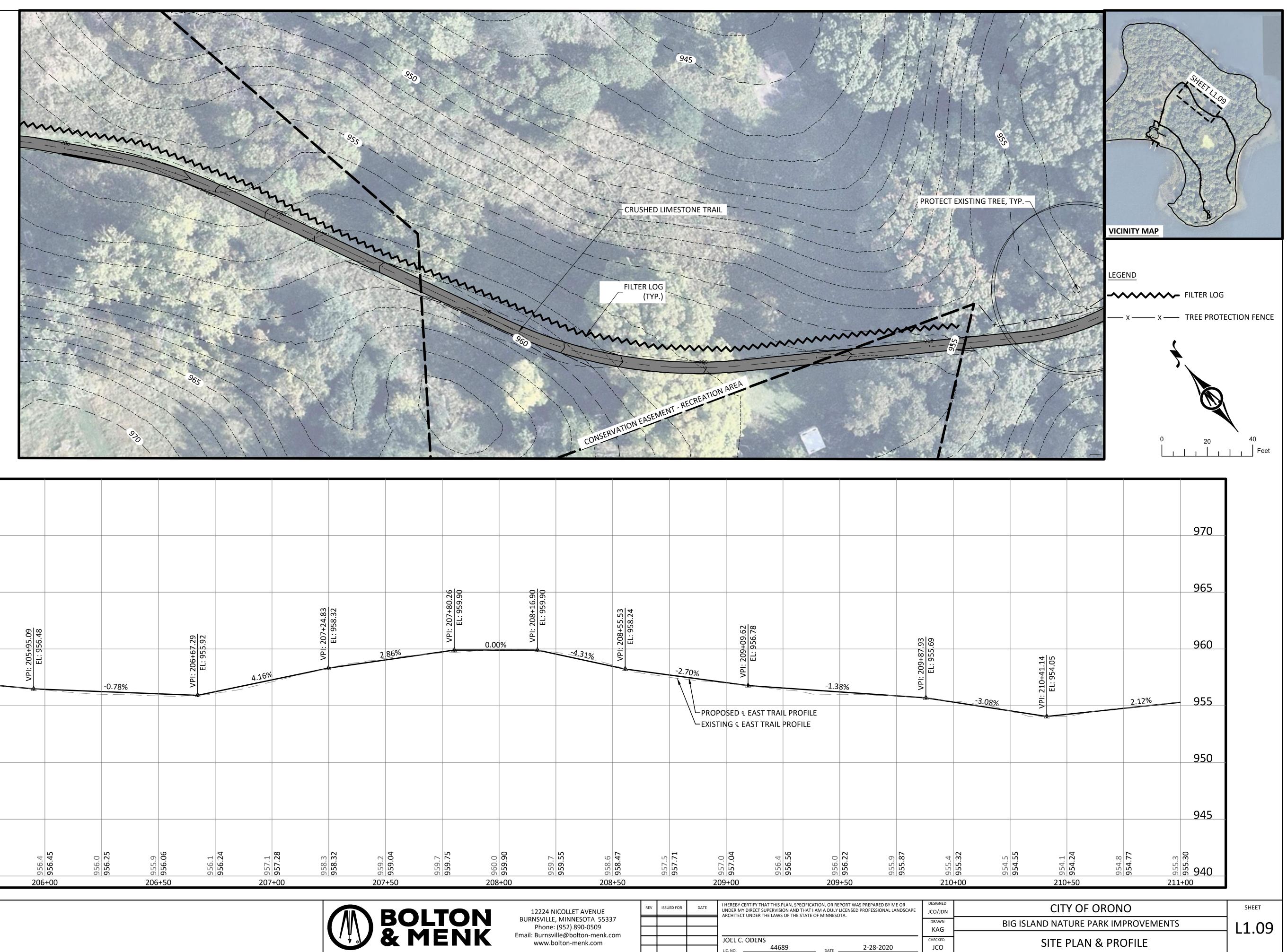
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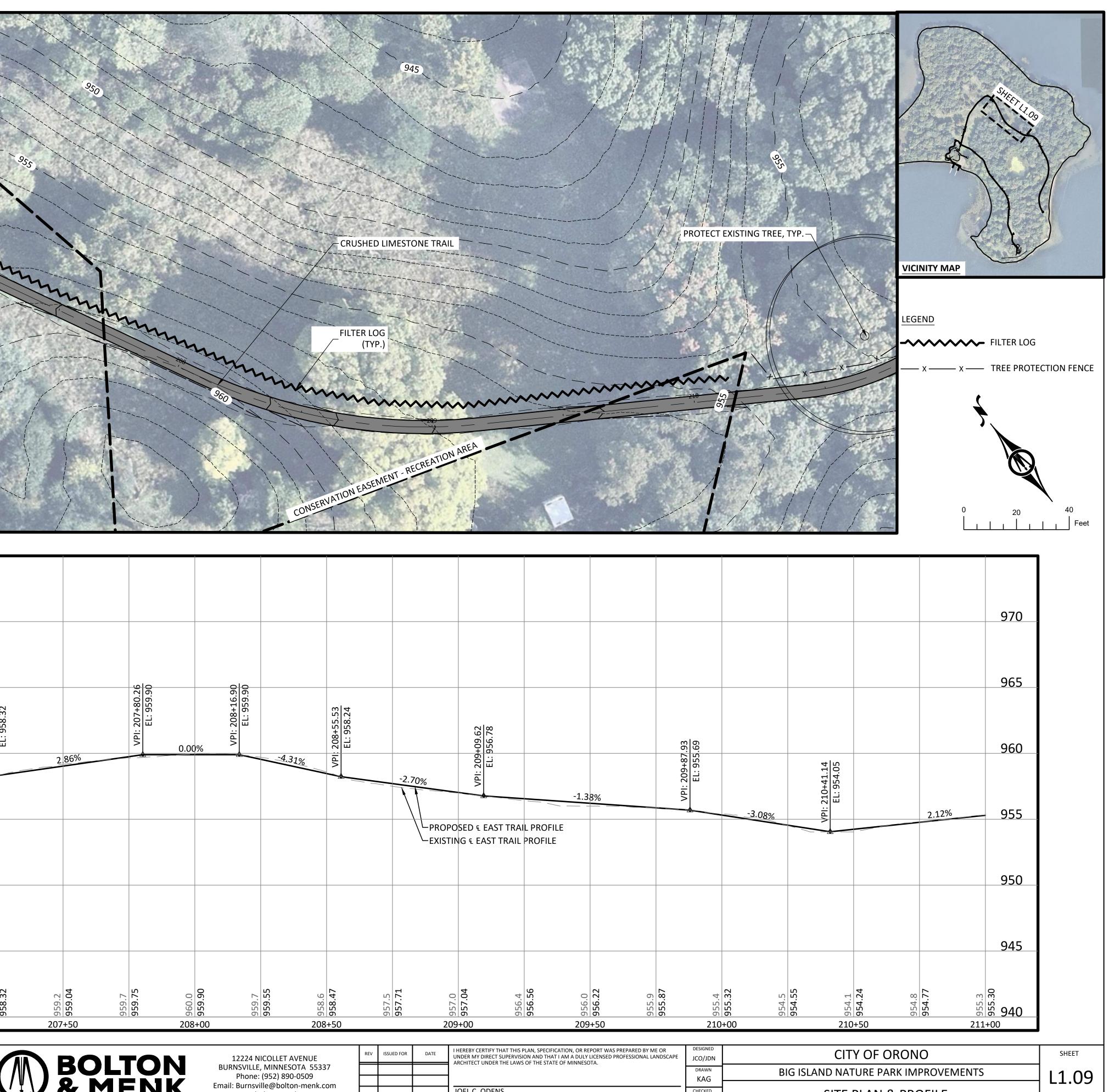




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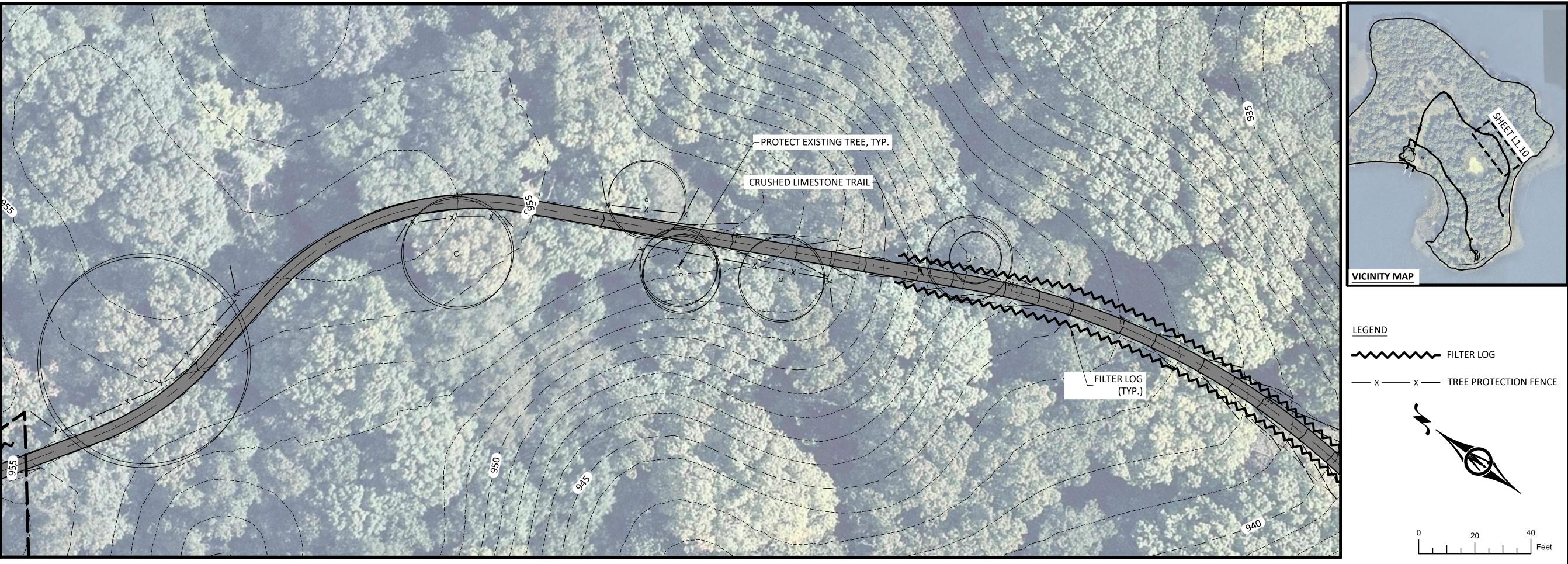


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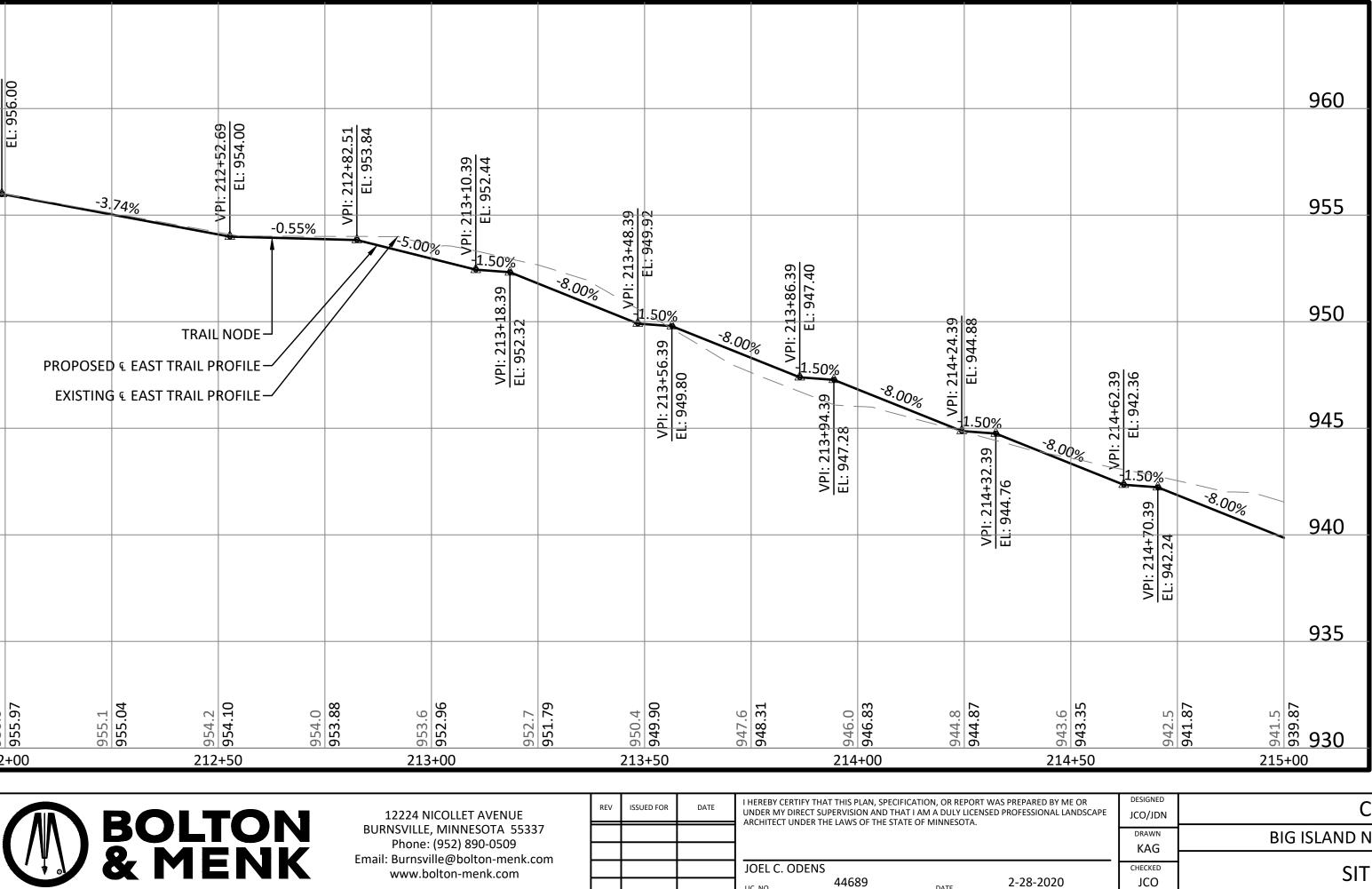
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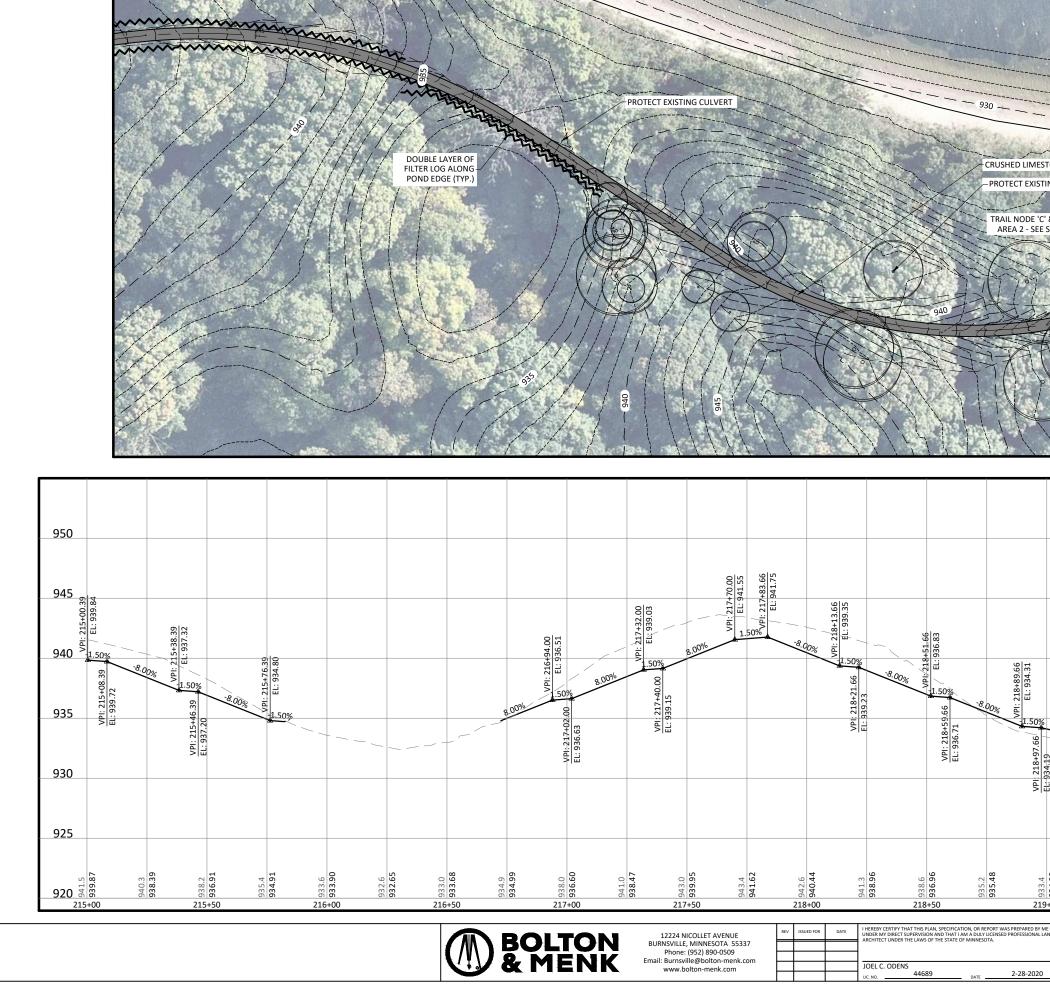
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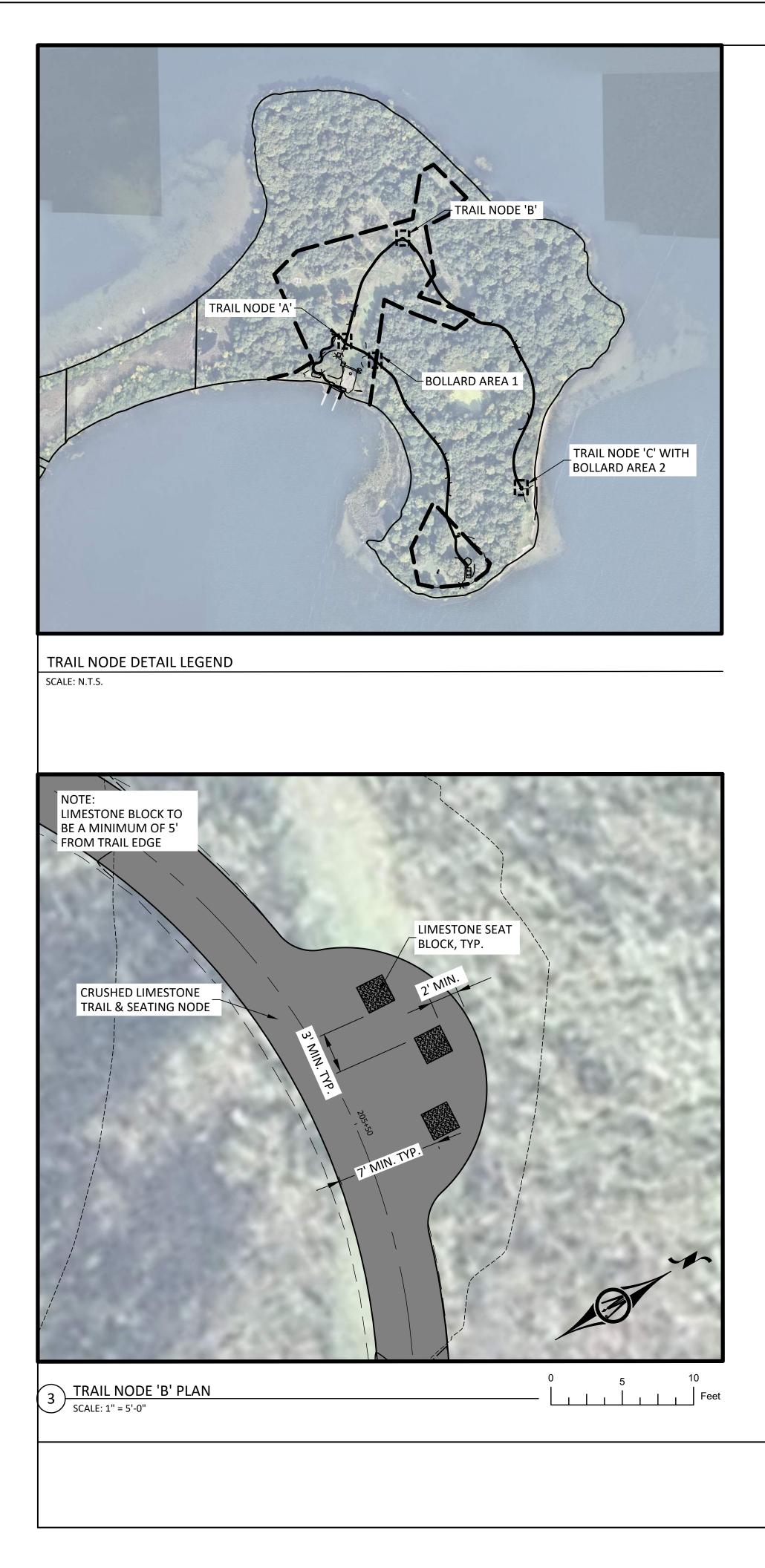
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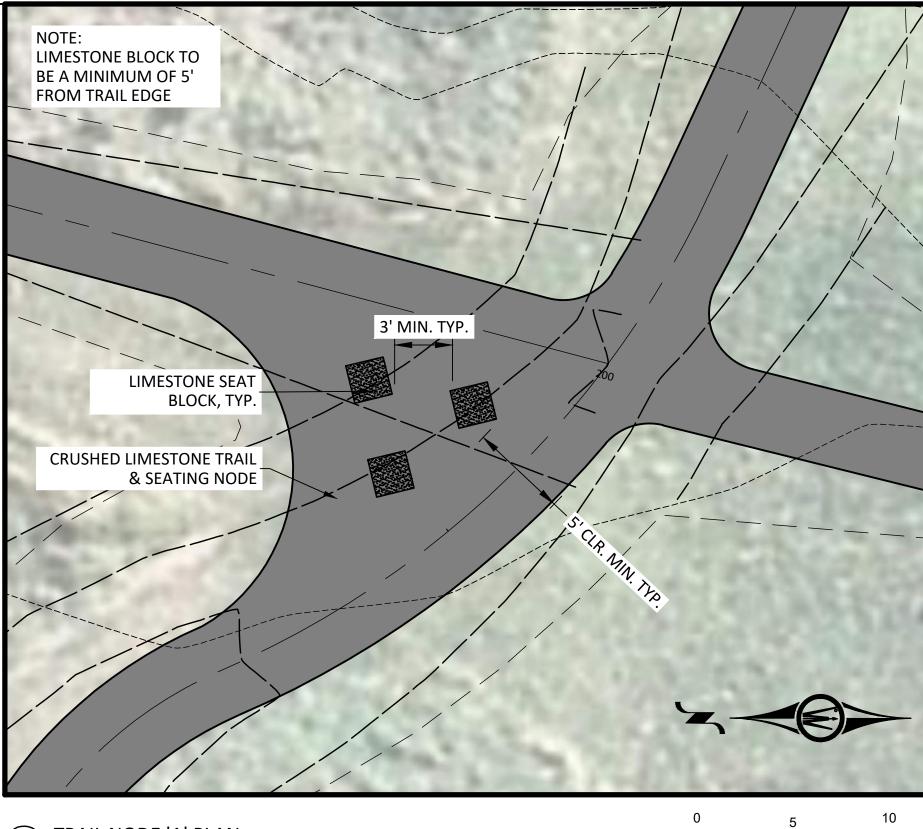
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- 2. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL AREAS OF DISTURBANCE INCLUDING THE SHORELINE TO PRECONSTRUCTION CONDITIONS.
- 3. TEMPORARY PERIMETER CONTROL CONSTRUCTED OF MATERIALS THAT DO NOT EASILY DECOMPOSE, SUCH AS FILTER LOGS, SHALL BE REMOVED WHEN THE SITE HAS BEEN PERMANENTLY STABILIZED AND PRIOR TO PROJECT CLOSE OUT.

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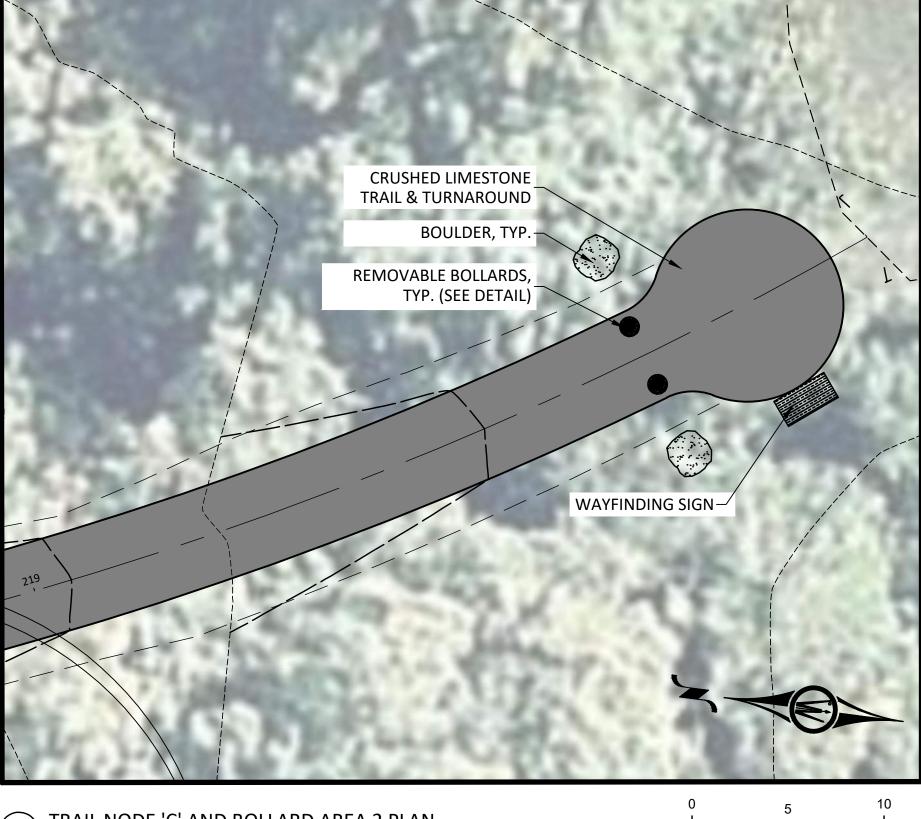


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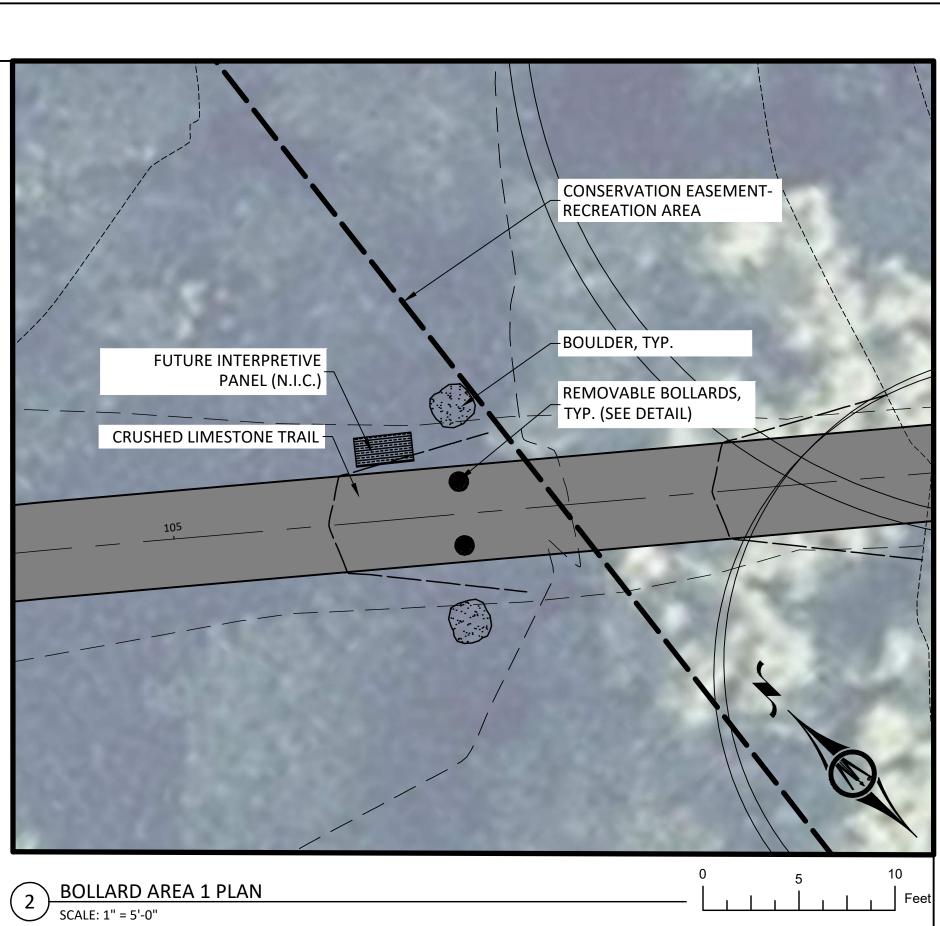


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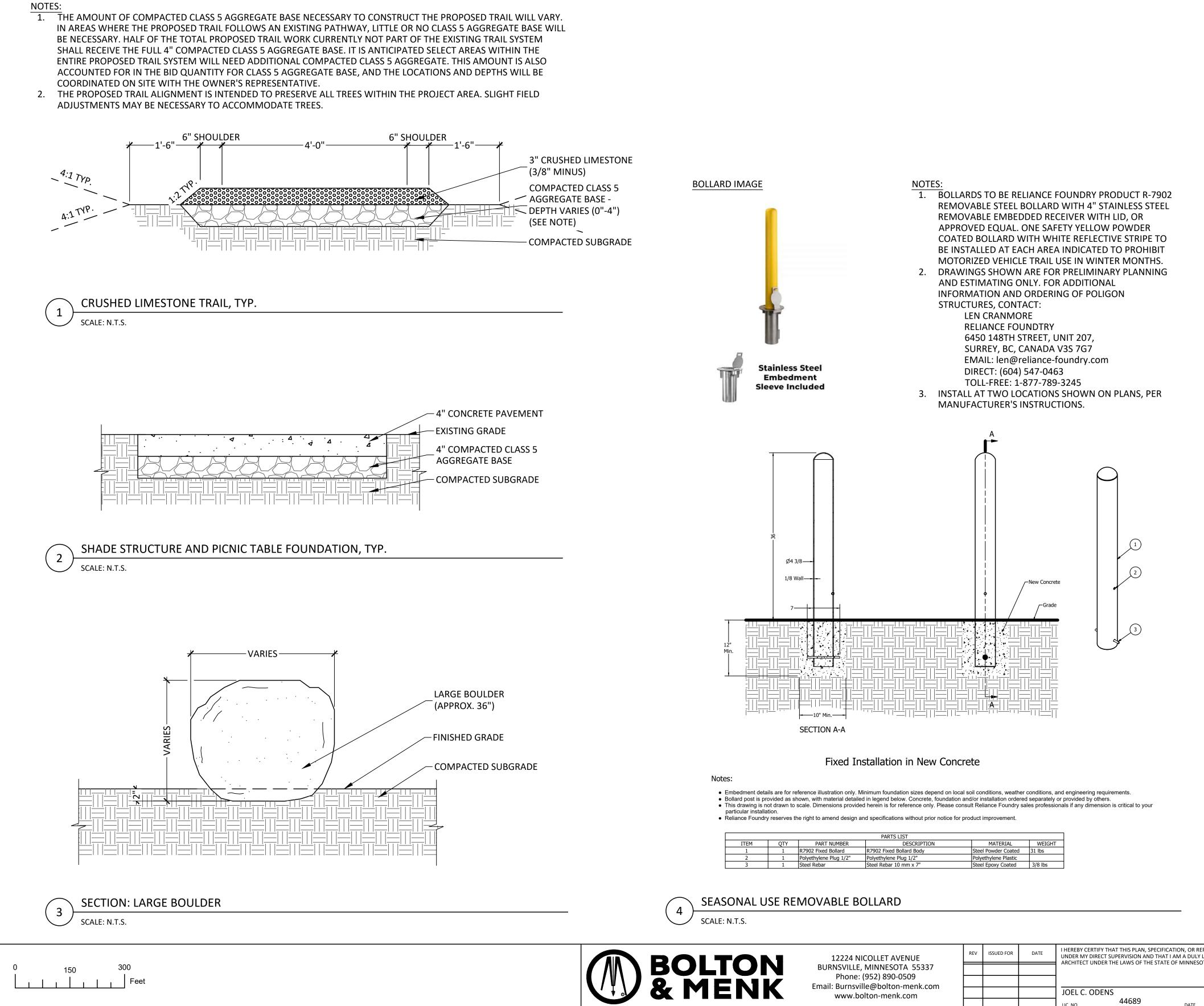


12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com

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		JOEL C. OD	ENS							
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## NOTE:

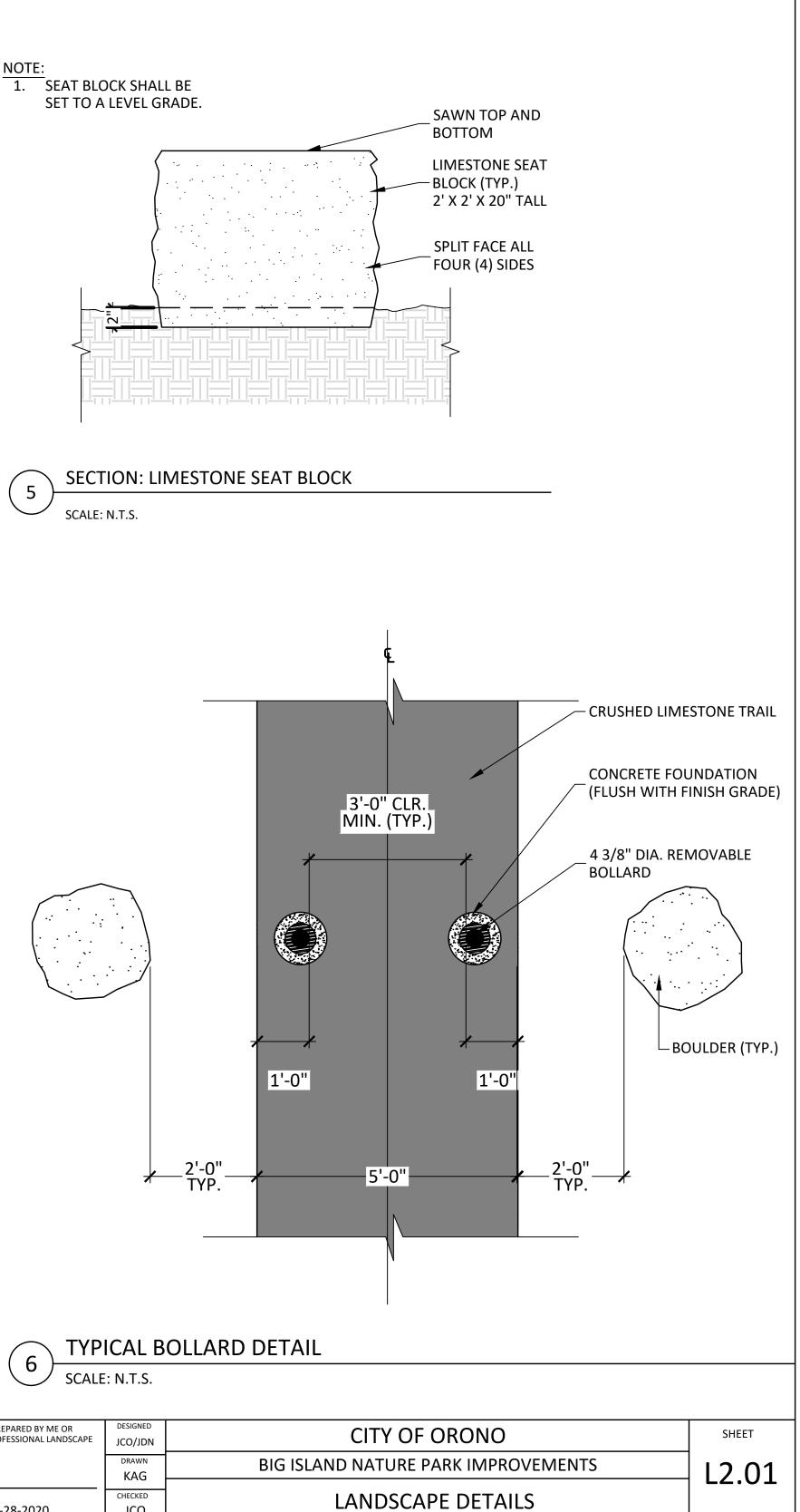
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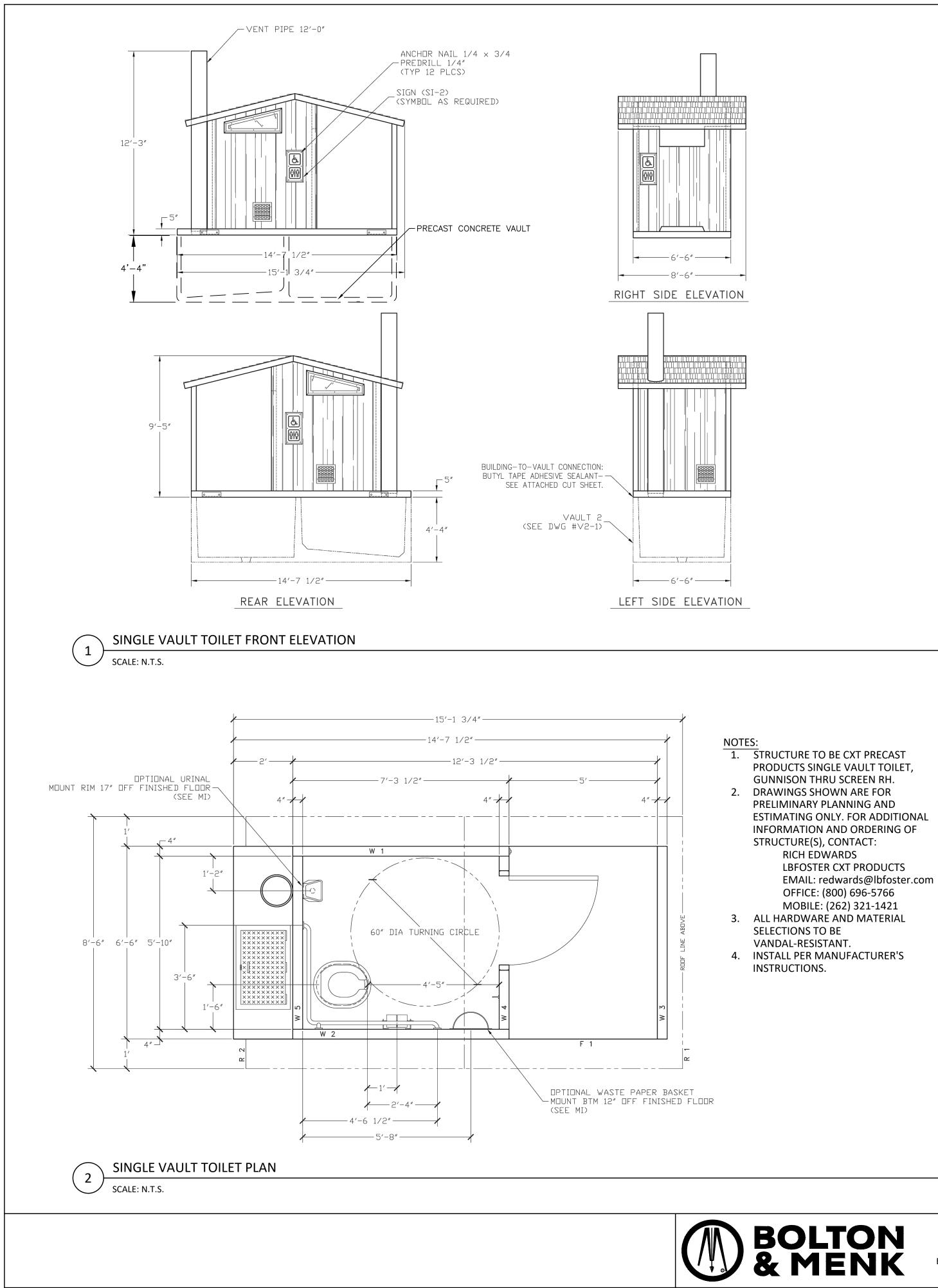
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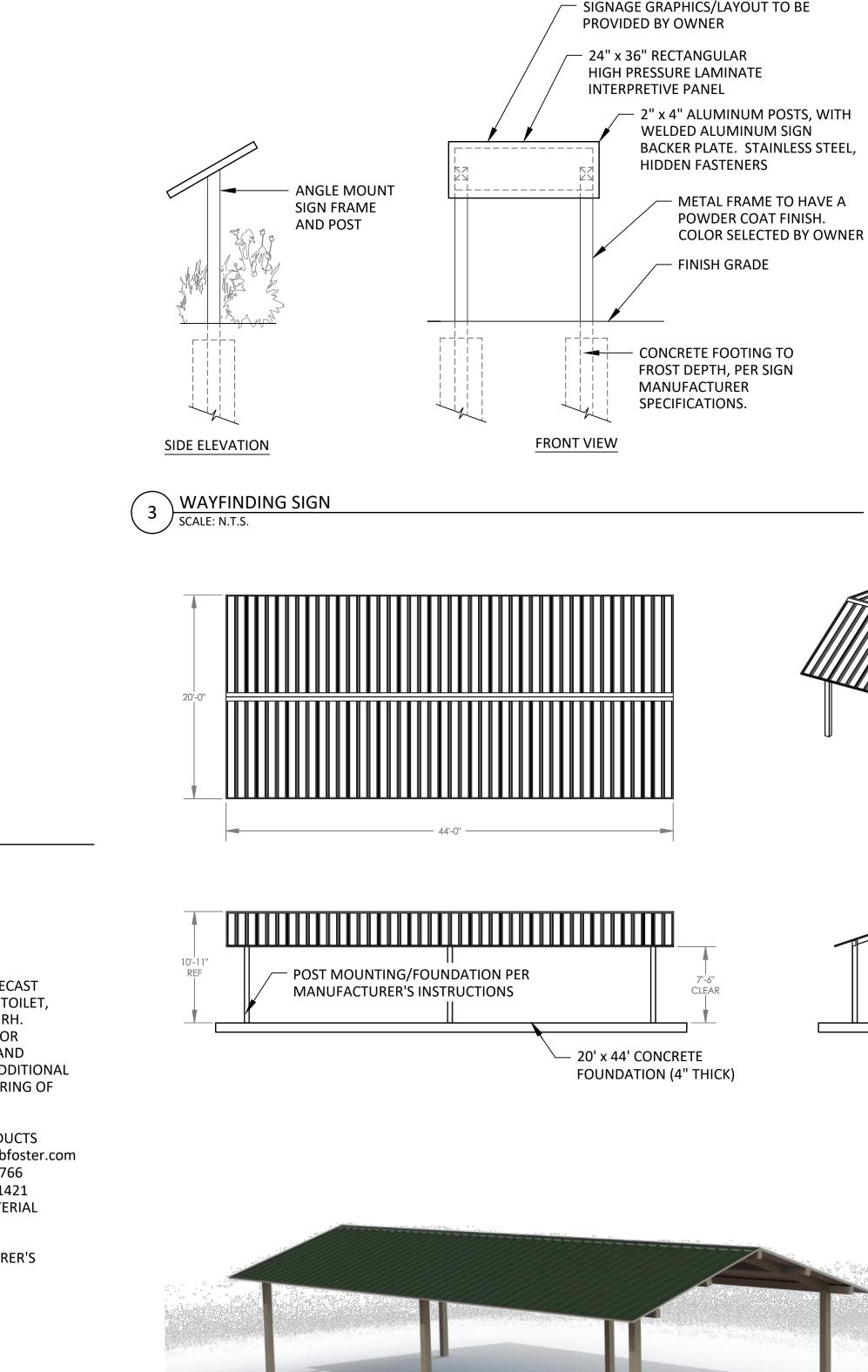
JCO

PARTS LIST								
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT			
1	1	R7902 Fixed Bollard	R7902 Fixed Bollard Body	Steel Powder Coated	31 lbs			
2	1	Polyethylene Plug 1/2"	Polyethylene Plug 1/2"	Polyethylene Plastic				
3	1	Steel Rebar	Steel Rebar 10 mm x 7"	Steel Epoxy Coated	3/8 lbs			

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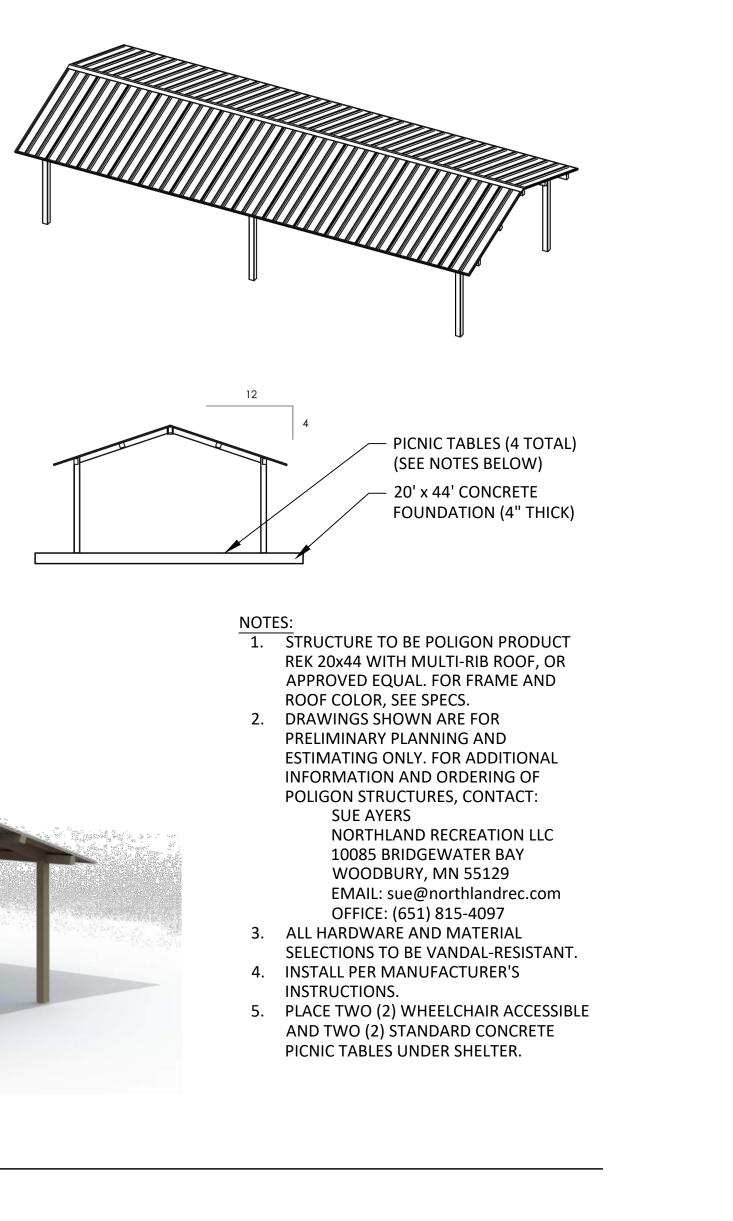


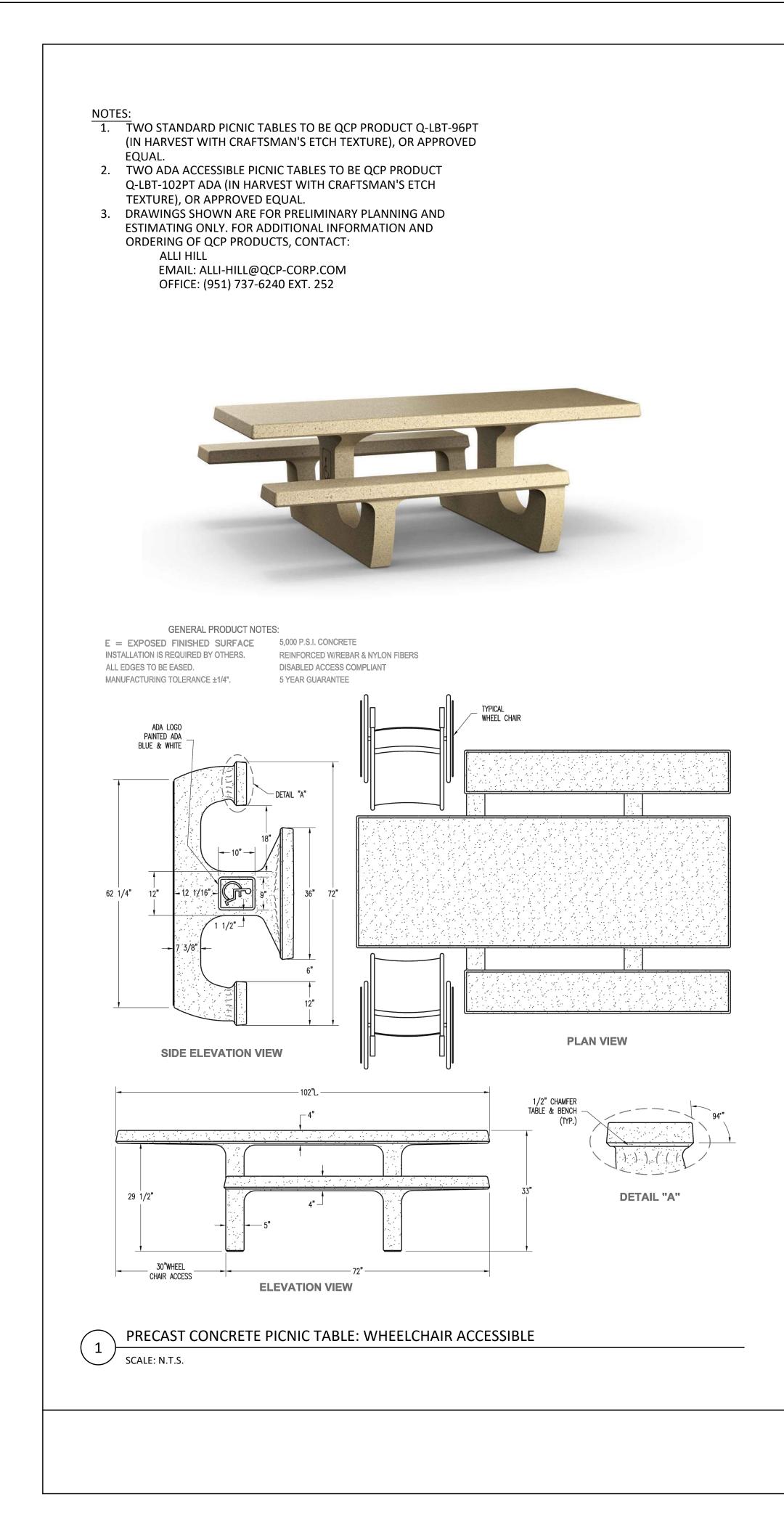
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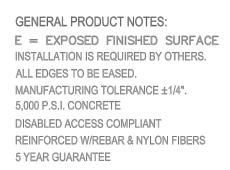
12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com

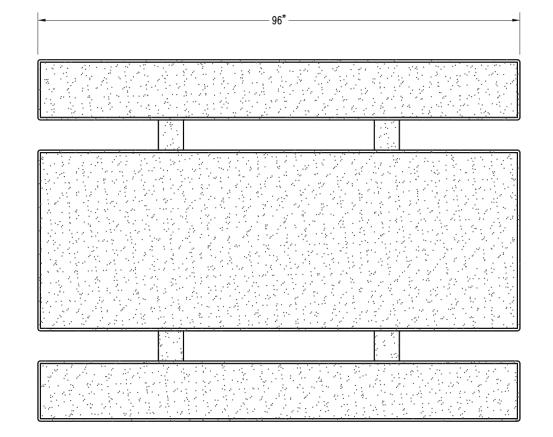
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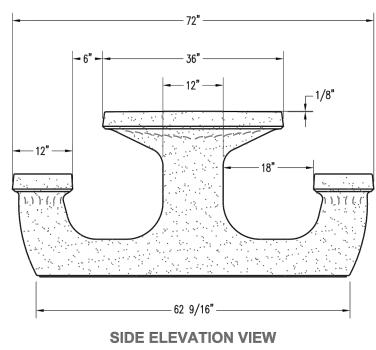


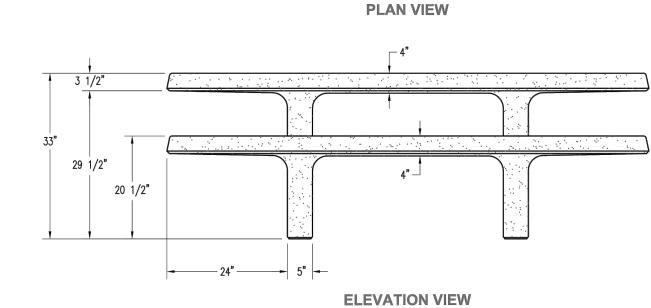








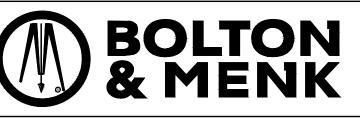




## PRECAST CONCRETE PICNIC TABLE: STANDARD

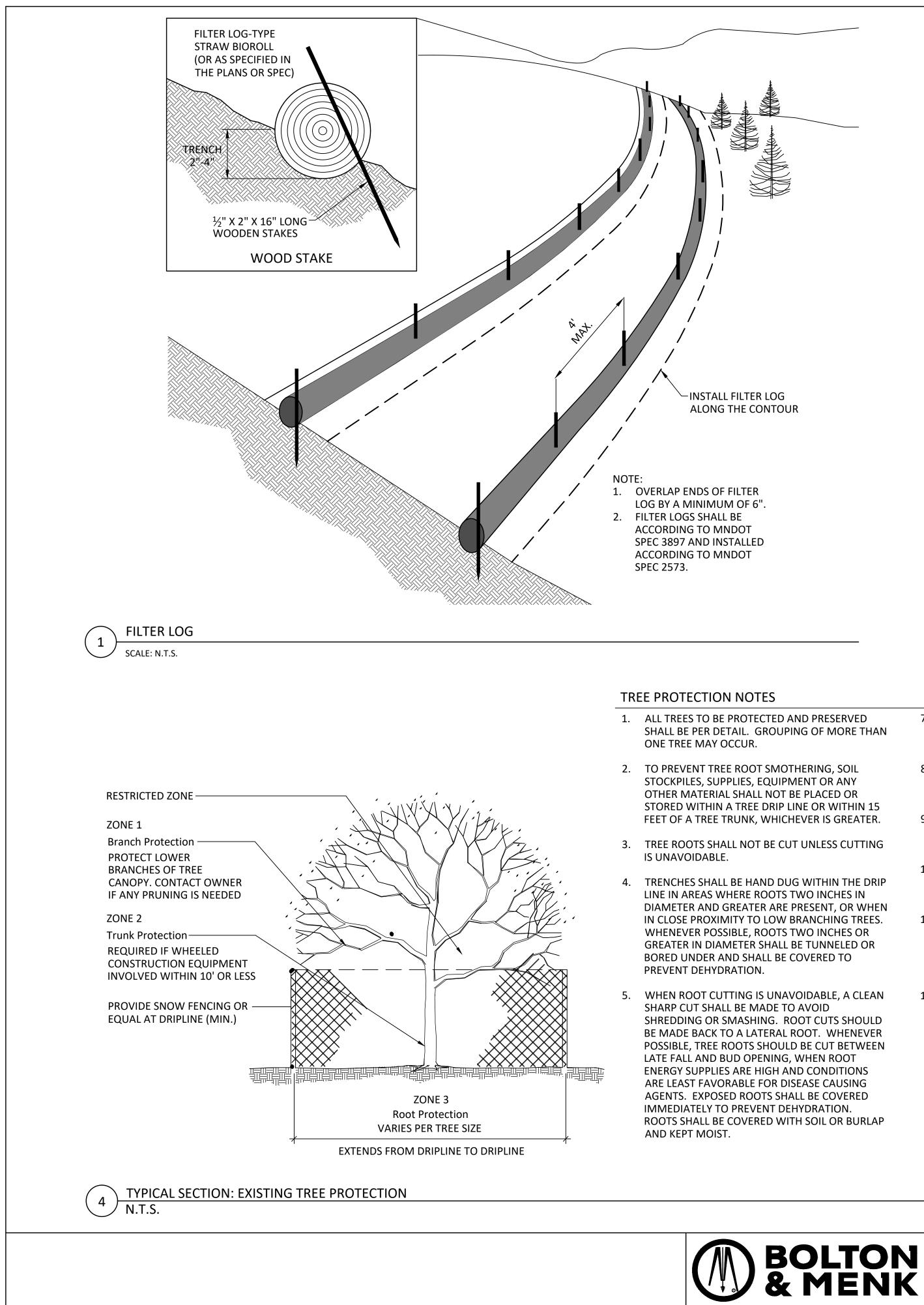
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				drawn KAG	BIG ISLAND NATURE PARK IMPROVEMENTS	1203
			JOEL C. ODENS	CHECKED	PICNIC TABLE DETAILS	L2.05
			LIC. NO 44689 DATE 2-28-2020	JCO		



-MINIMUM OF 2 **BUDS EXPOSED** ъ ABOVE GROUND - TAMP SOIL AROUND LIVE STAKE -DRIVE INTO SOIL USING 4.0 RUBBER MALLET. CUT **BENEATH MUSHROOM** Ъ. OR SPLIT END. ъ 4 -EXISTING SOIL - ANGLE CUT 30°-45°

NOTES:

1. DISTURBED SHORELINE AREA TO BE REPLANTED WITH LIVE STAKES 3' O.C. EXISTING WOODY SPECIES INCLUDE FALSE INDIGO BUSH (AMORPHA FRUTICOSA) AND PEACHLEAF WILLOW (SALIX AMYGDALOIDES).

←FLUSH CUT

- 2. LIVE STAKE OR CUTTING PLANTED PERPENDICULAR TO GROUND SURFACE.
- 3. LIVE STAKES OF 2" DIAMETER MINIMUM TO BE PLANTED IN THE DORMANT SEASON FROM SEPTEMBER TO MARCH.
- 4. RESEED DISTURBED SHORELINE AREA WITH MESIC PRAIRIE SEED MIX (BWSR 35-64).



- 7. WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
- 8. AUGER TUNNELING RATHER THAN TRENCHING SHOULD BE USED FOR UTILITY PLACEMENT WITHIN DRIP LINE OF TREE.
- 9. FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE OUTER DRIP LINE EDGE IS WITHIN 20 FEET OF ANY CONSTRUCTION ACTIVITIES.
- 10. FENCING MATERIAL SHALL BE BRIGHT, CONTRASTING COLOR, DURABLE, AND A MINIMUM OF FOUR FEET IN HEIGHT.
- 11. FENCING MATERIAL SHALL BE SET AT THE DRIP LINE OR 15 FEET FROM TREE TRUNK, WHICHEVER IS GREATER, AND MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- 12. ANY GRADE CHANGES (SUCH AS THE REMOVAL OF TOPSOIL OR ADDITION OF FILL MATERIAL) WITHIN THE DRIP LINE SHOULD BE AVOIDED FOR EXISTING TREES TO REMAIN. IF GRADE CHANGES LIMIT THE RESTRICTED AREA, PLACE FENCING AT THE GRADING LIMITS AND NOTIFY ENGINEER OF LIMITED PROTECTION.

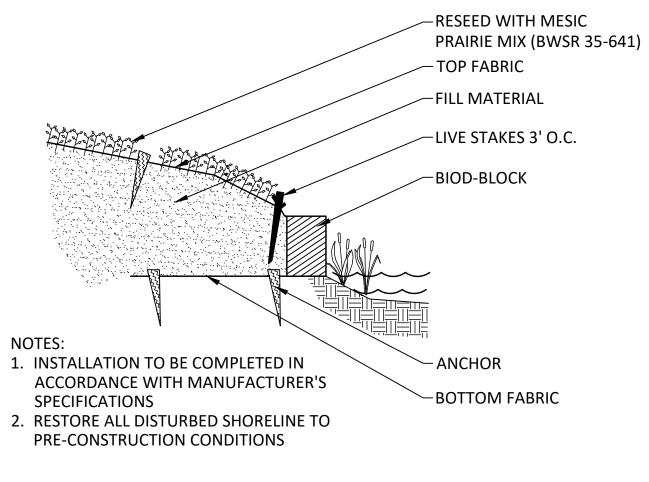


## CONSTRUCTION STAGING AREAS 5

12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com

	ISSUED FOR	DATE	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LA ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
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			JOEL C. ODENS
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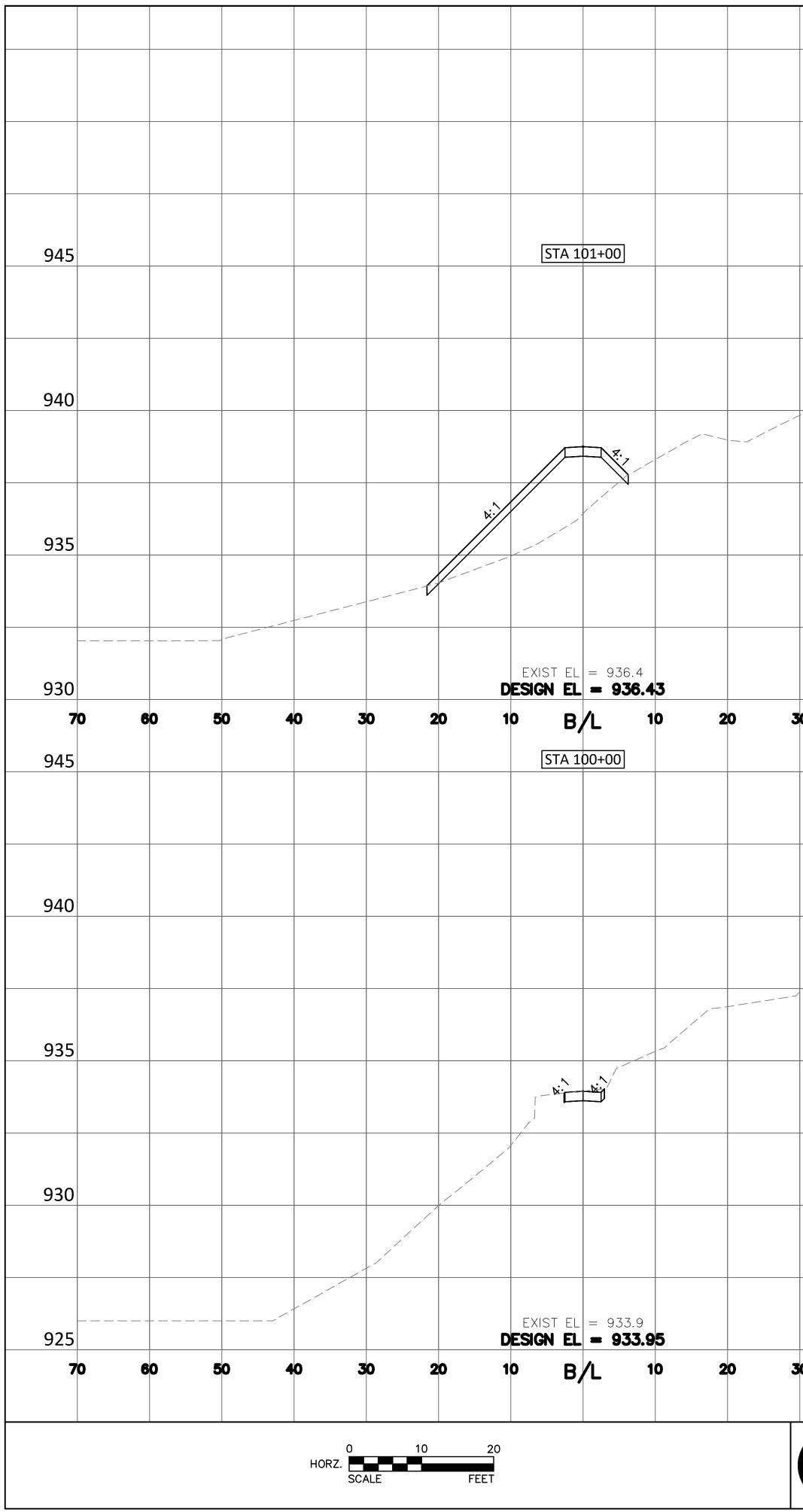


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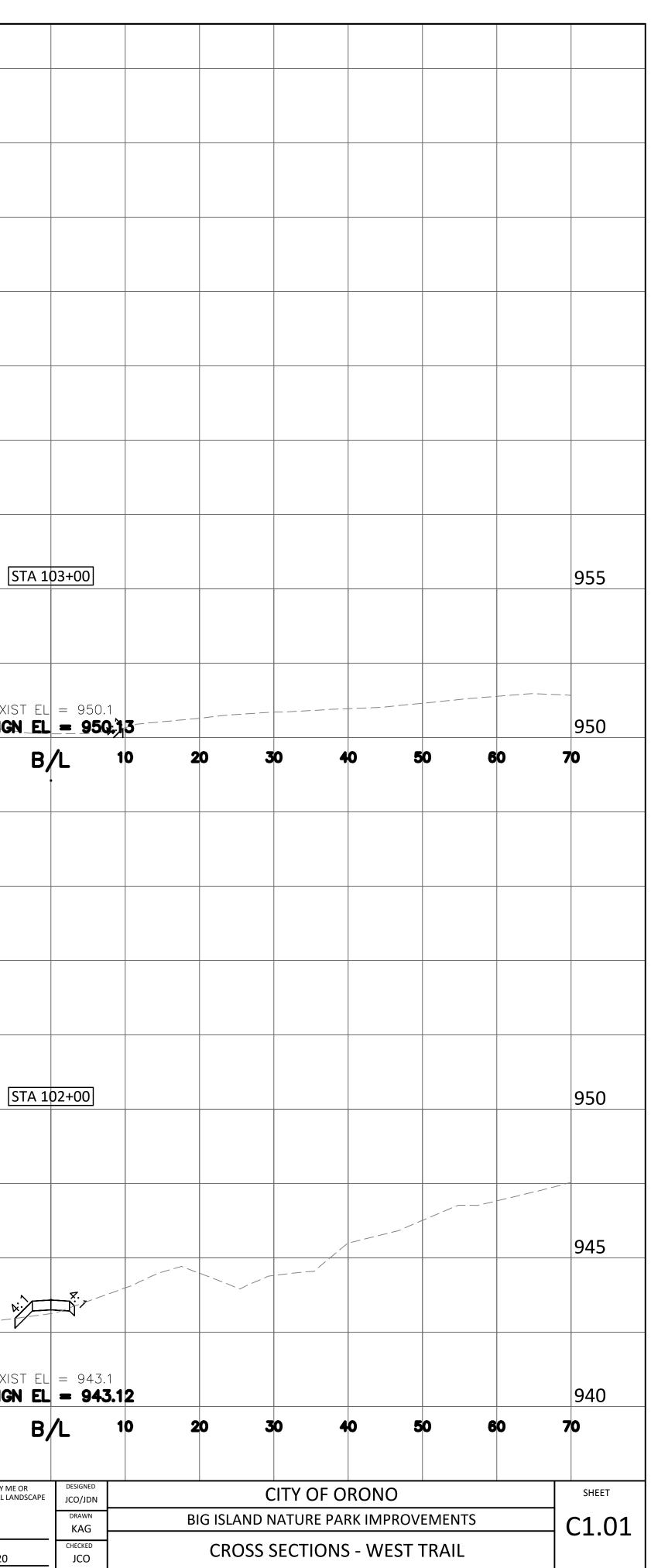
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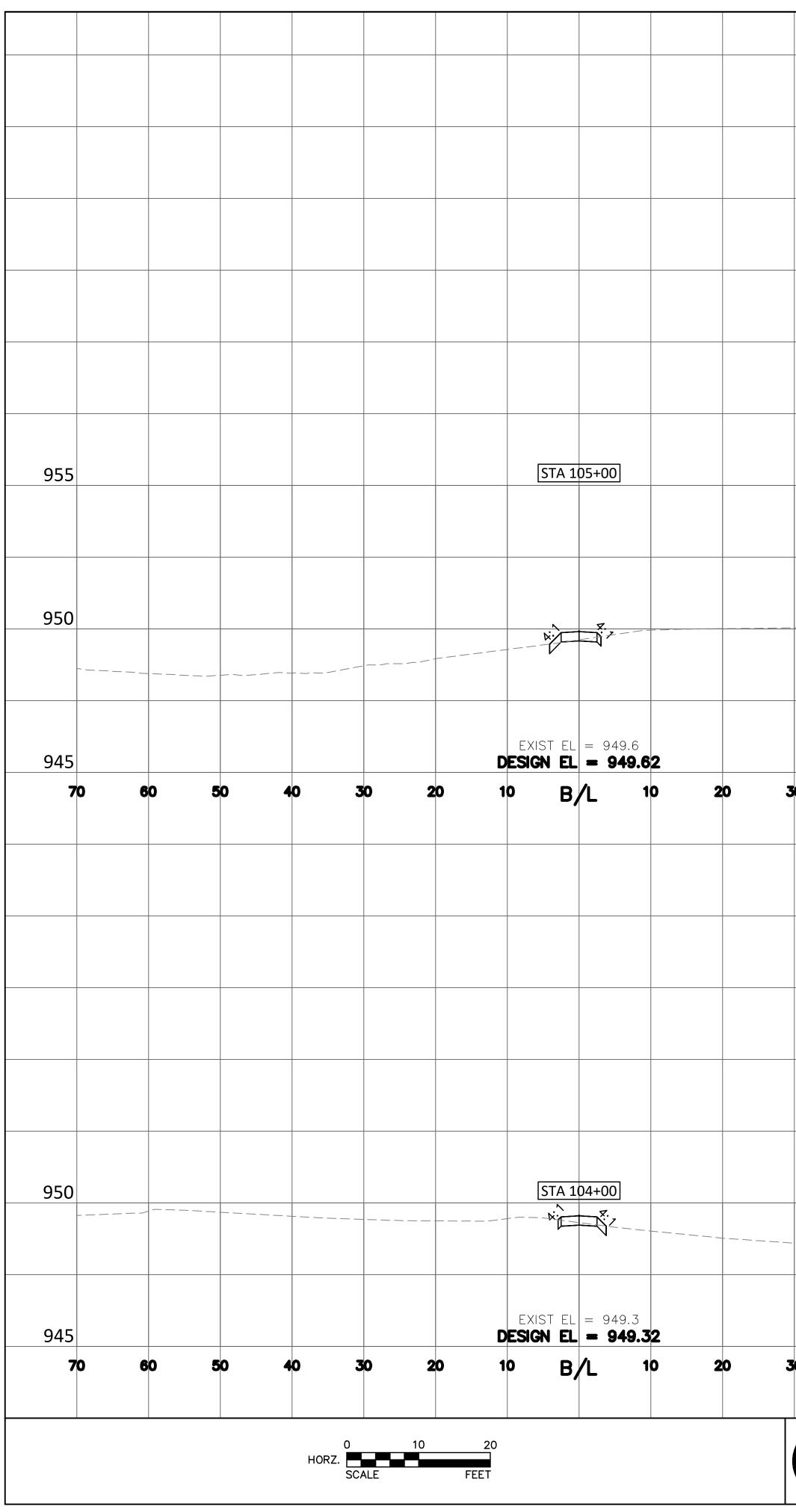
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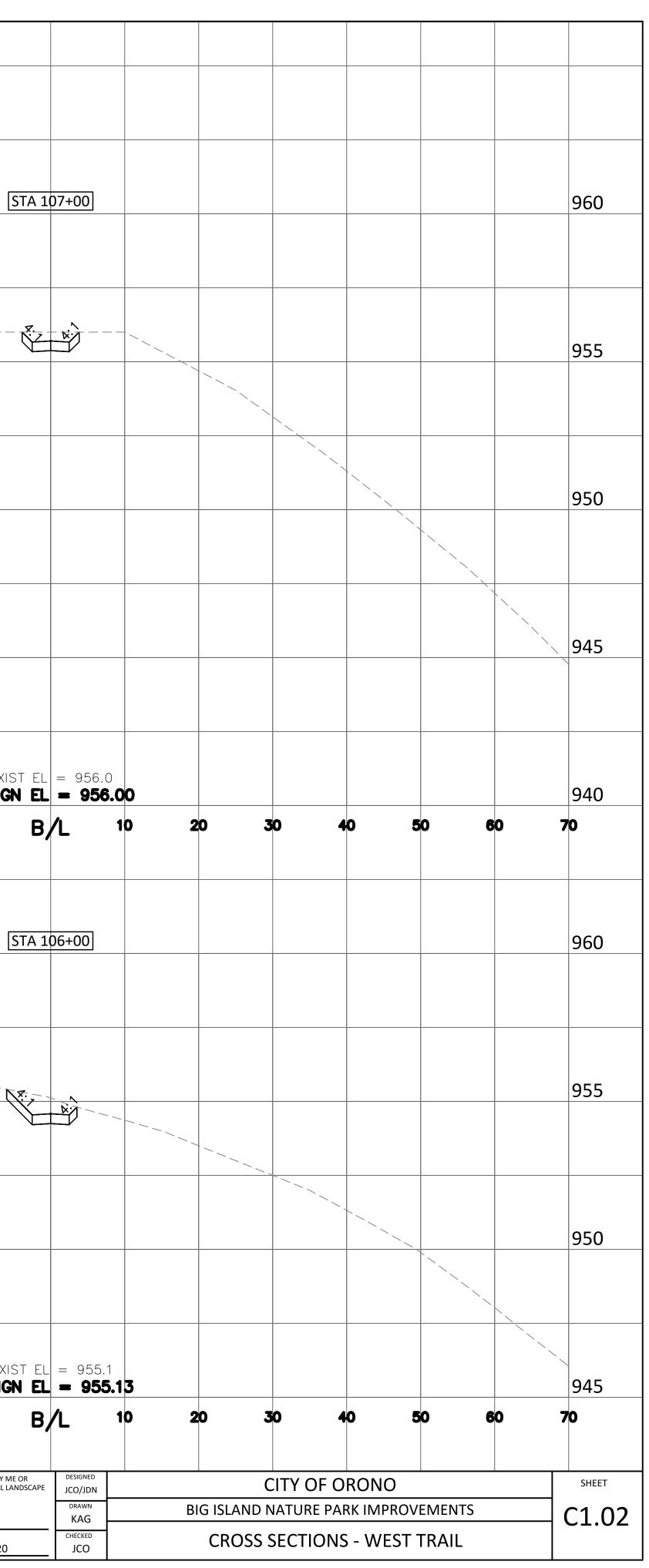


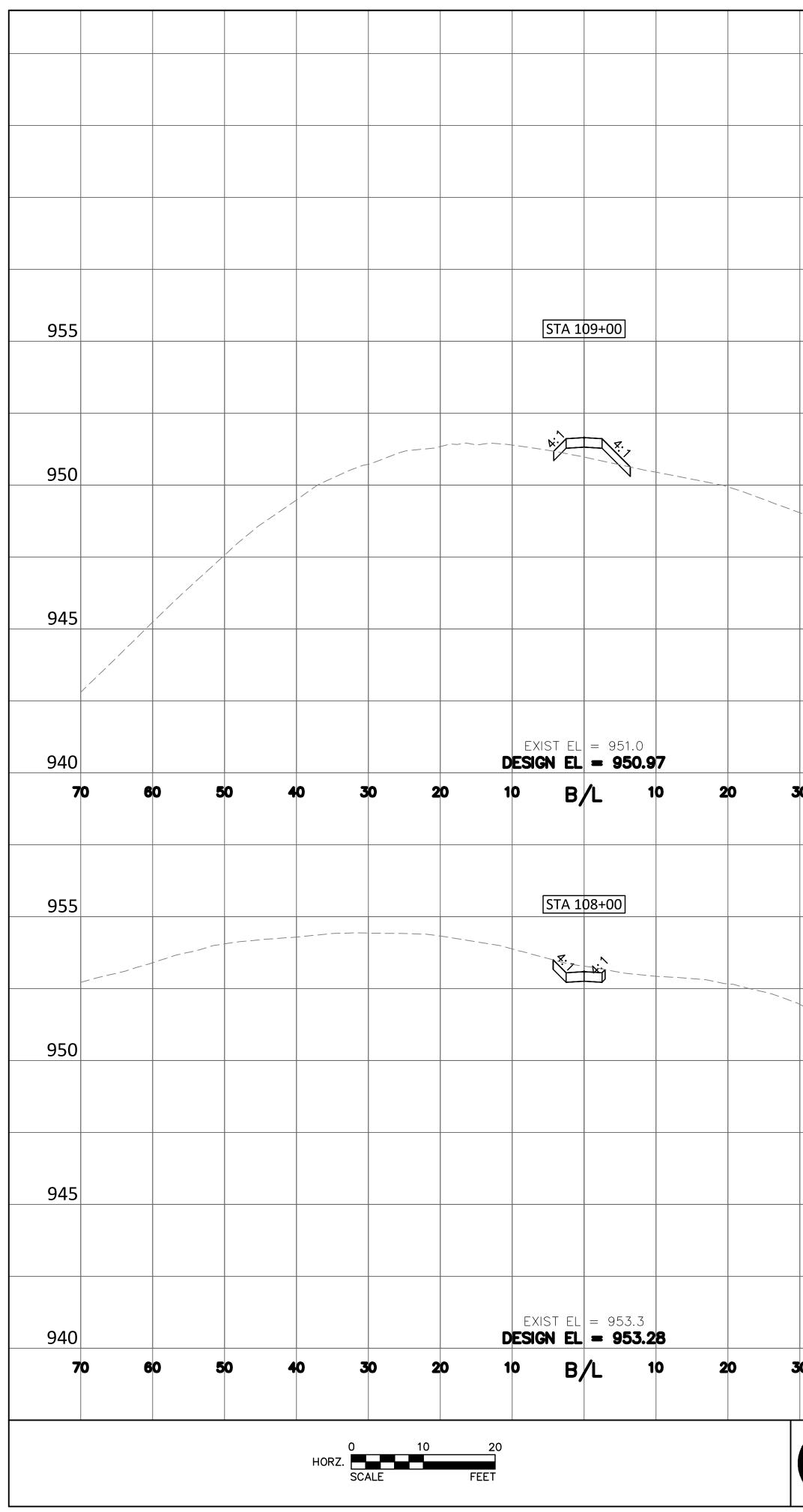
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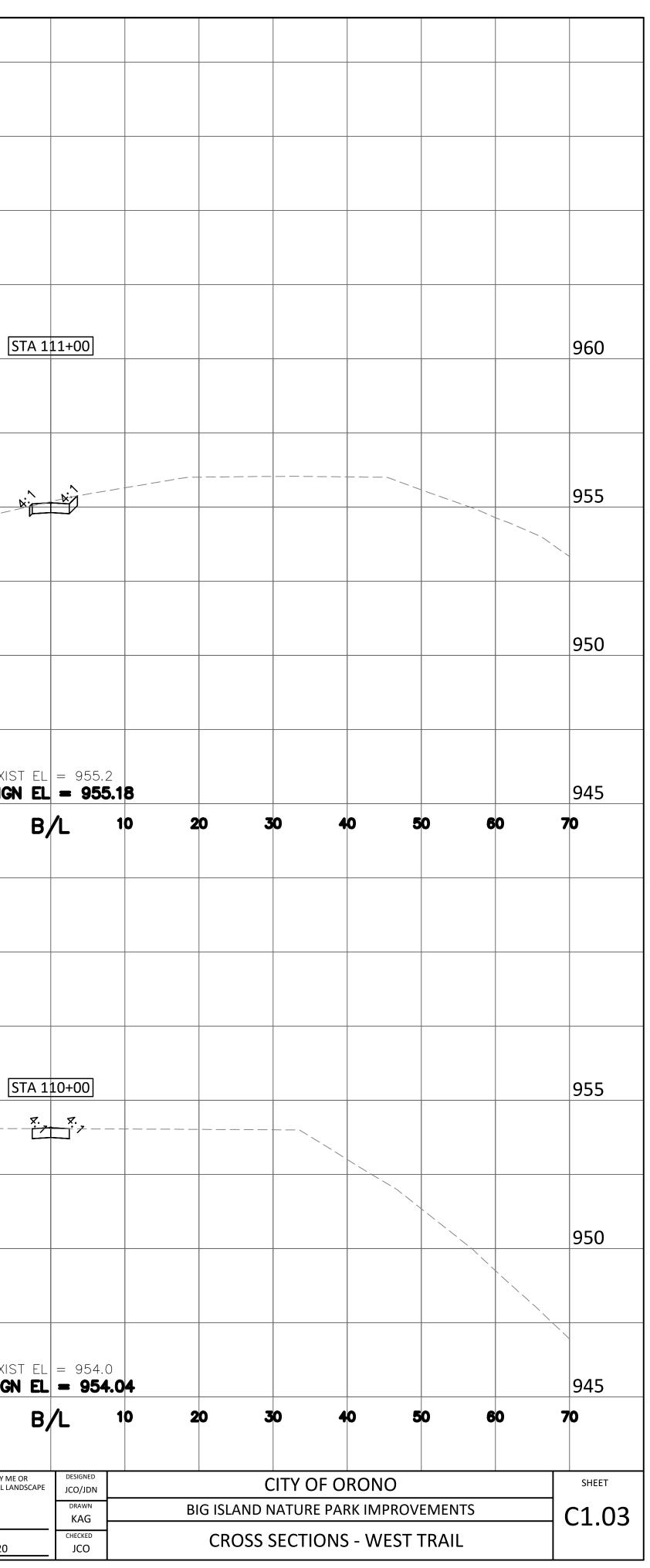


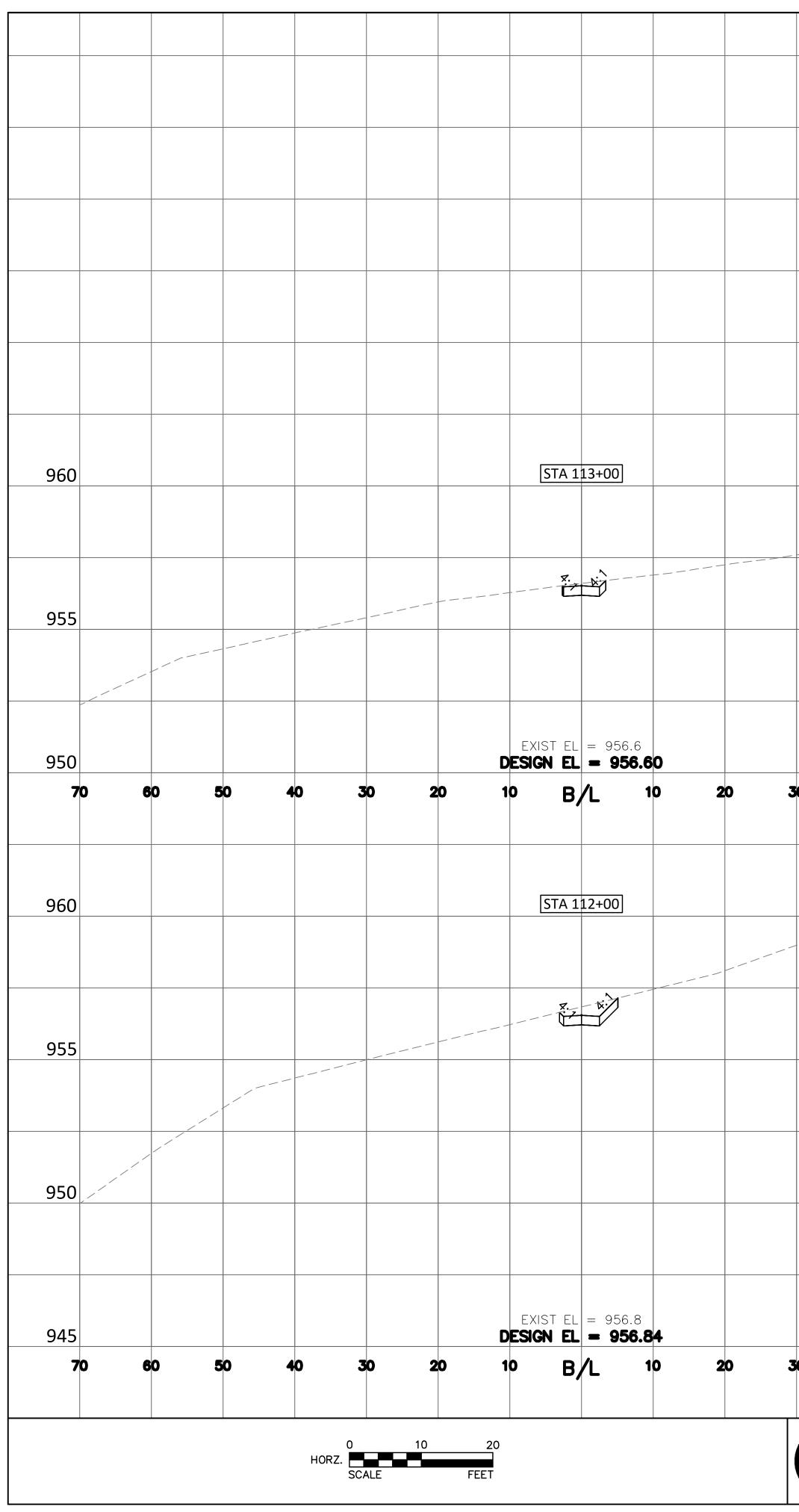
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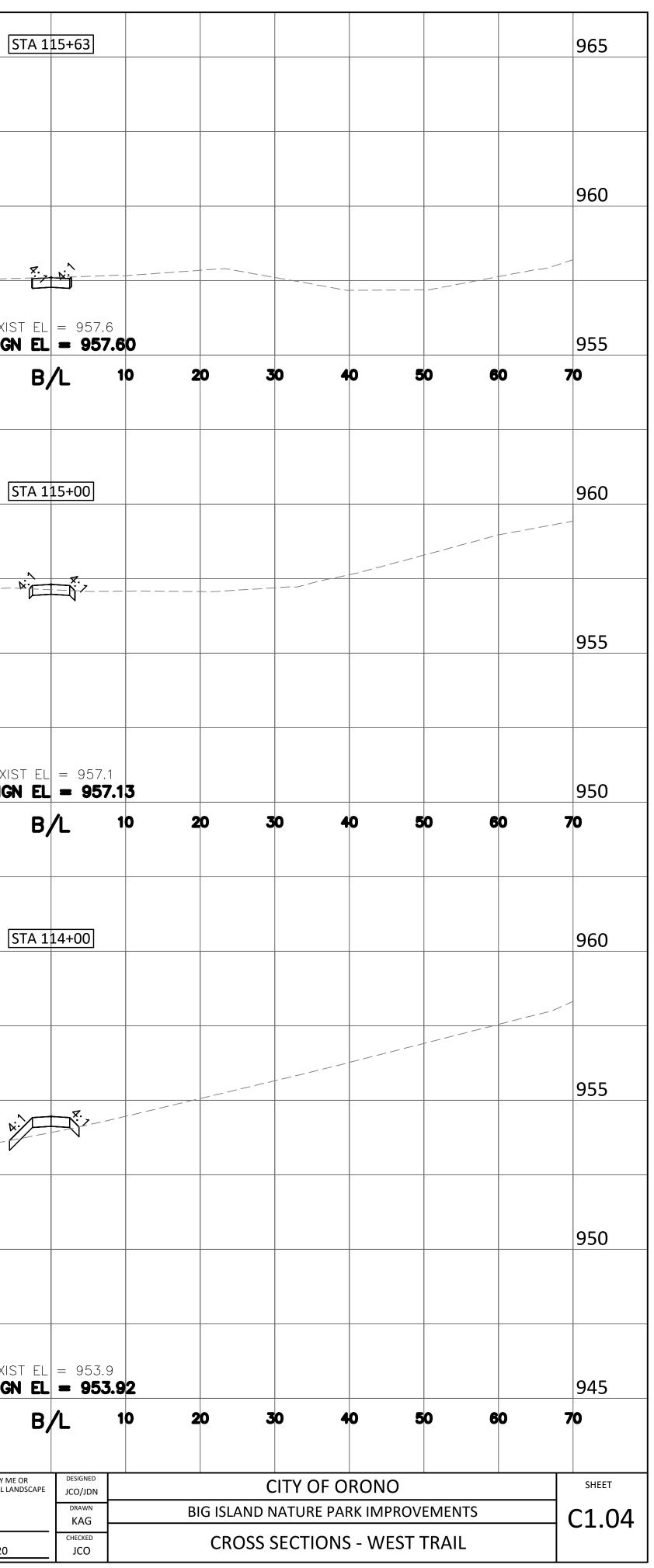


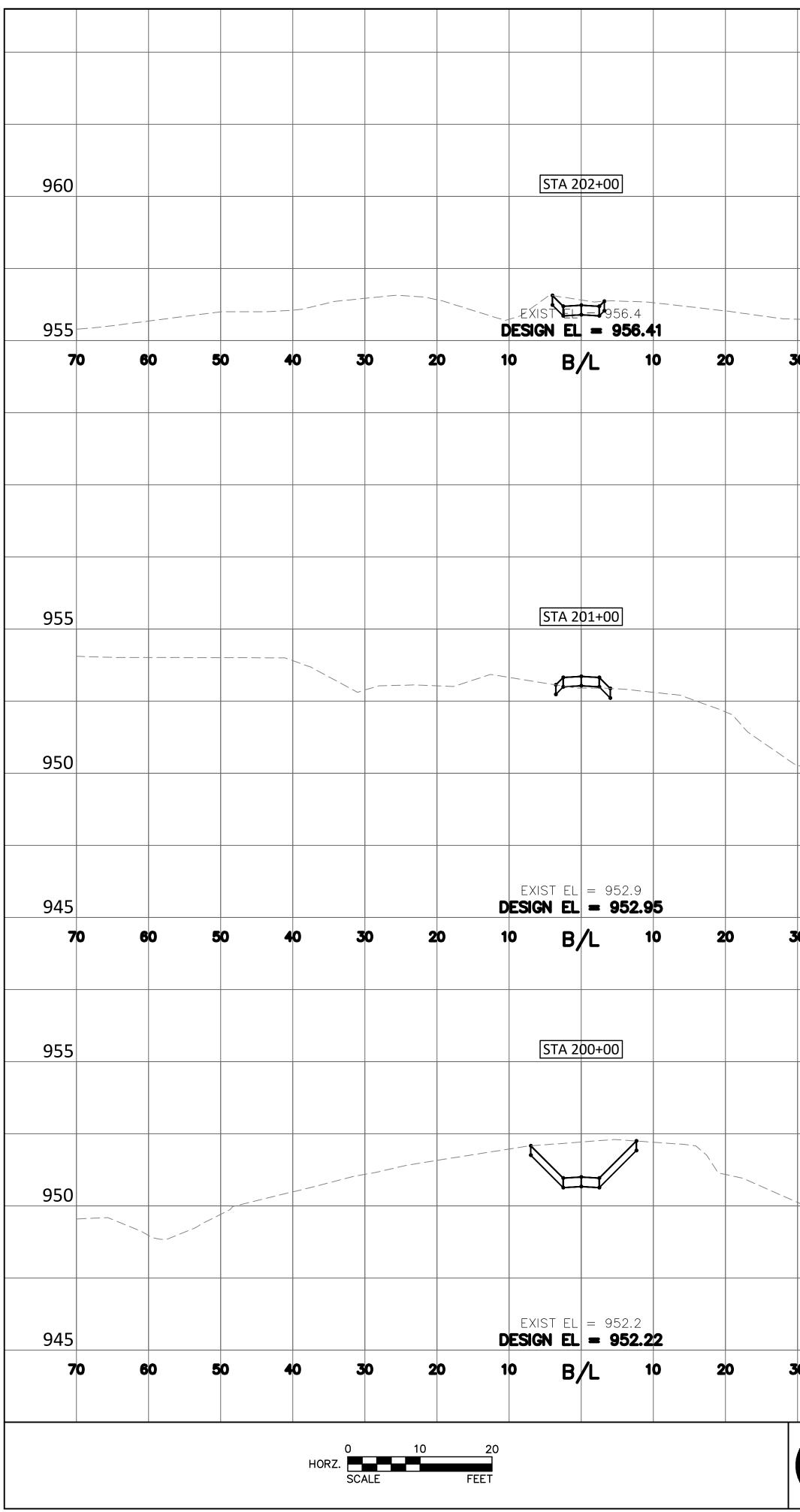
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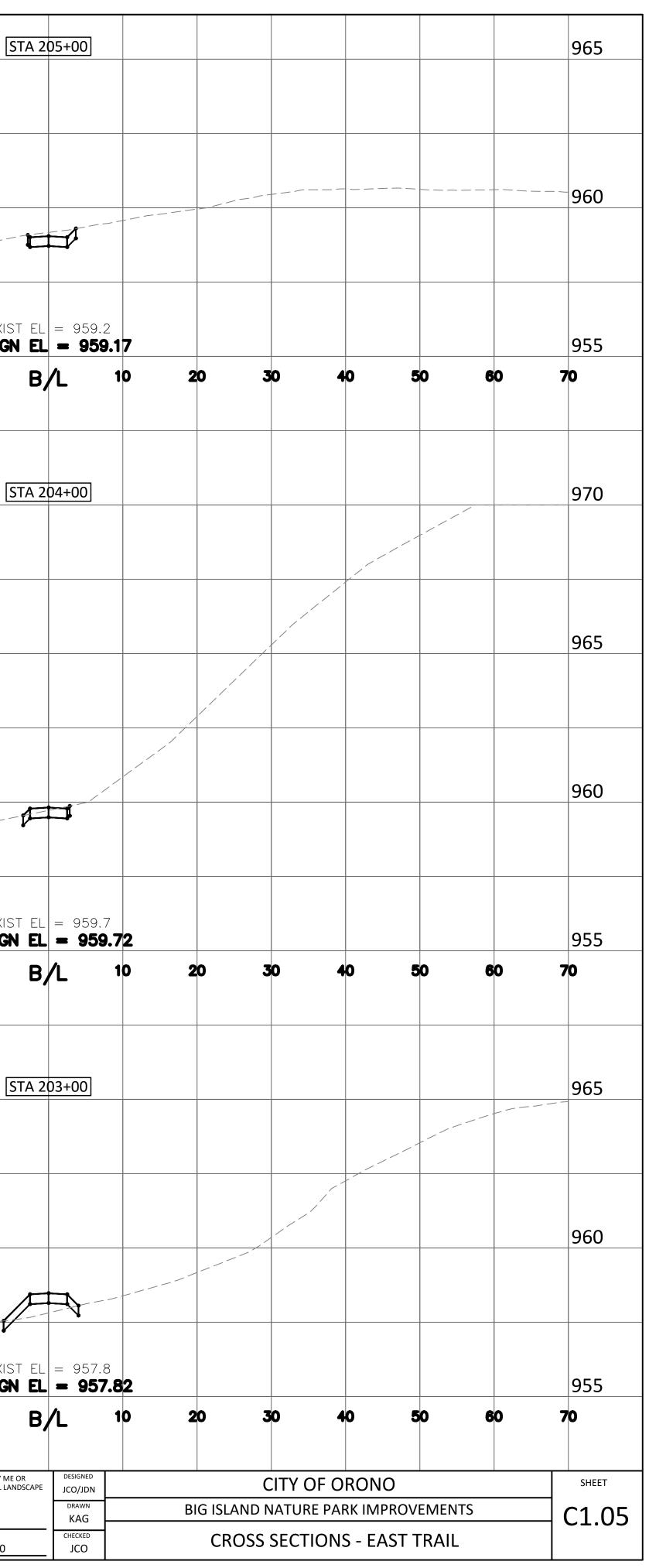


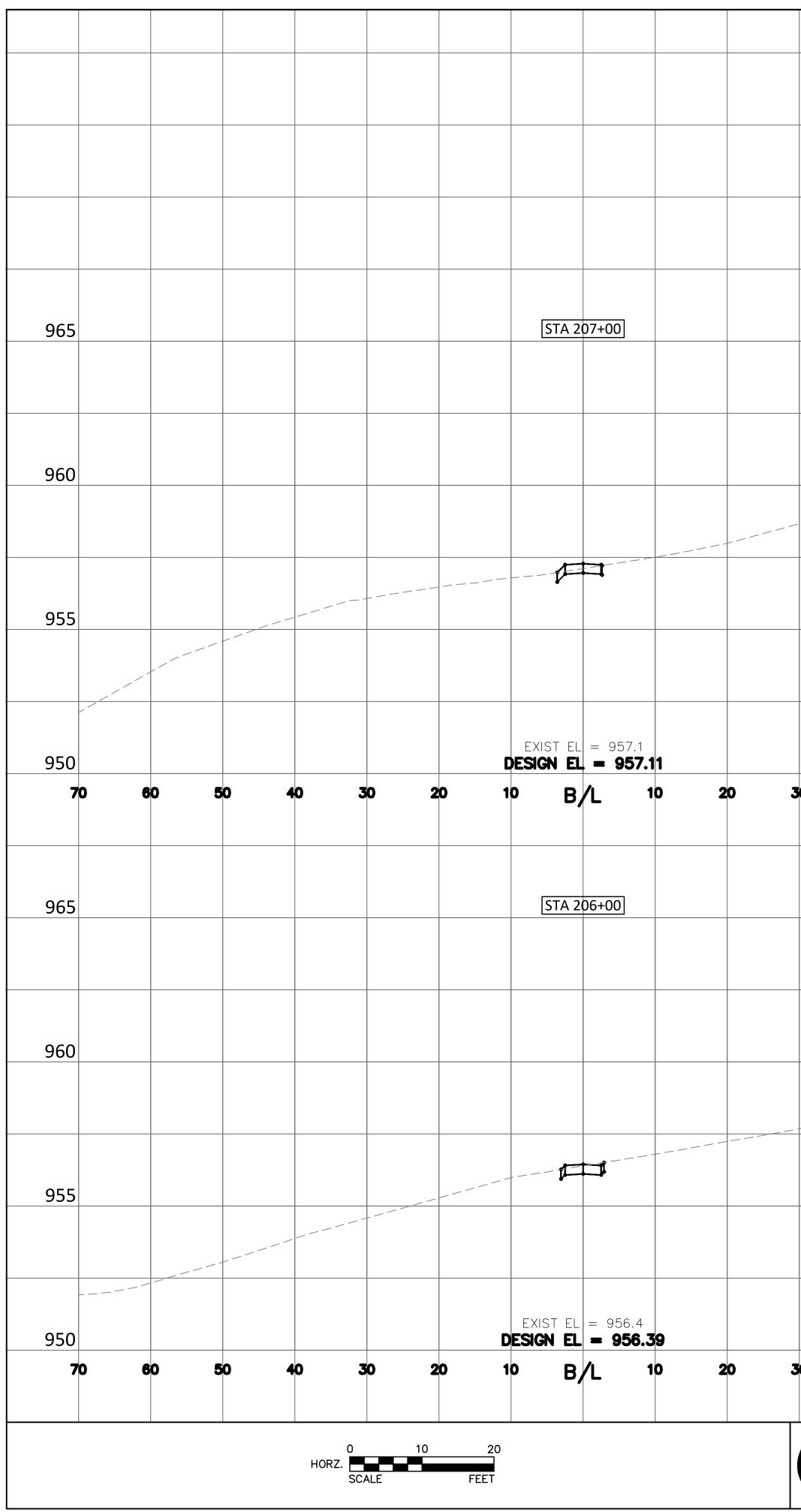
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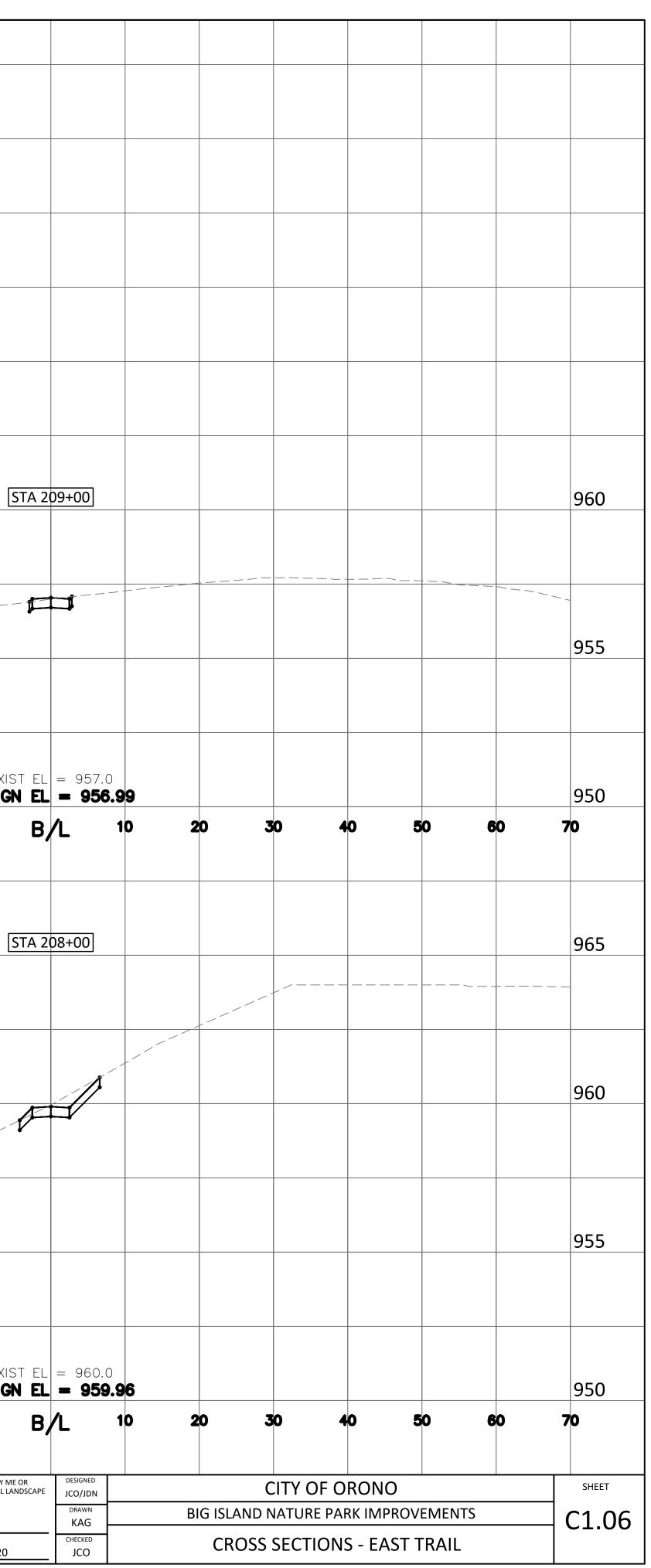


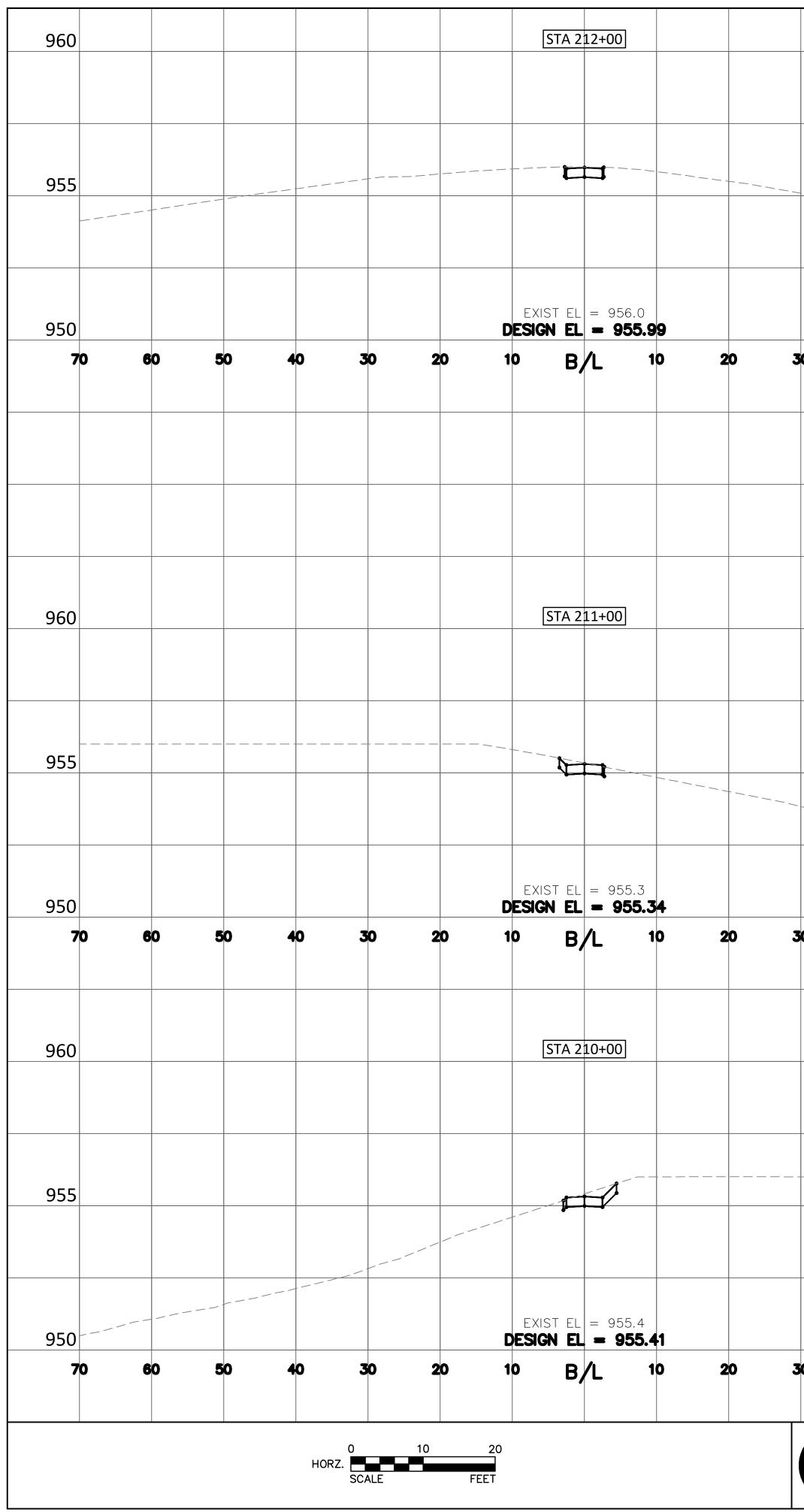
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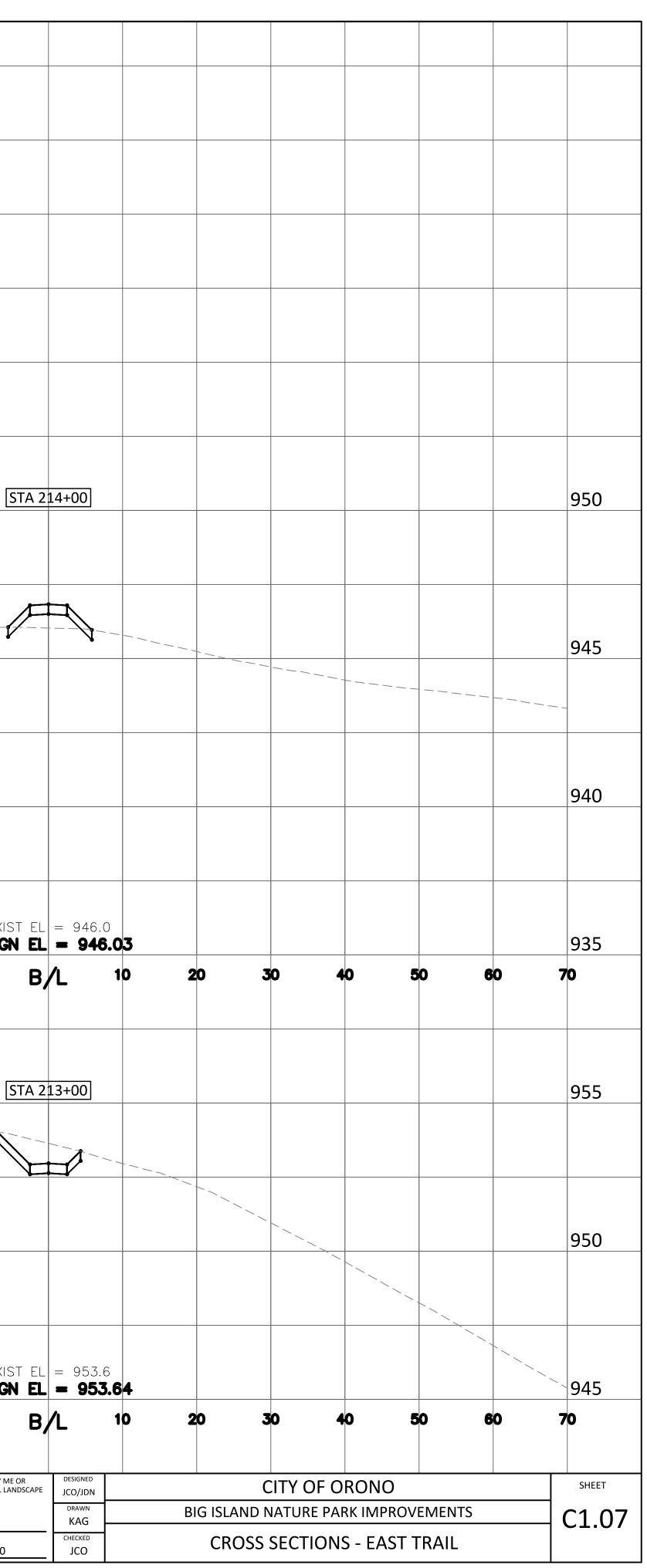


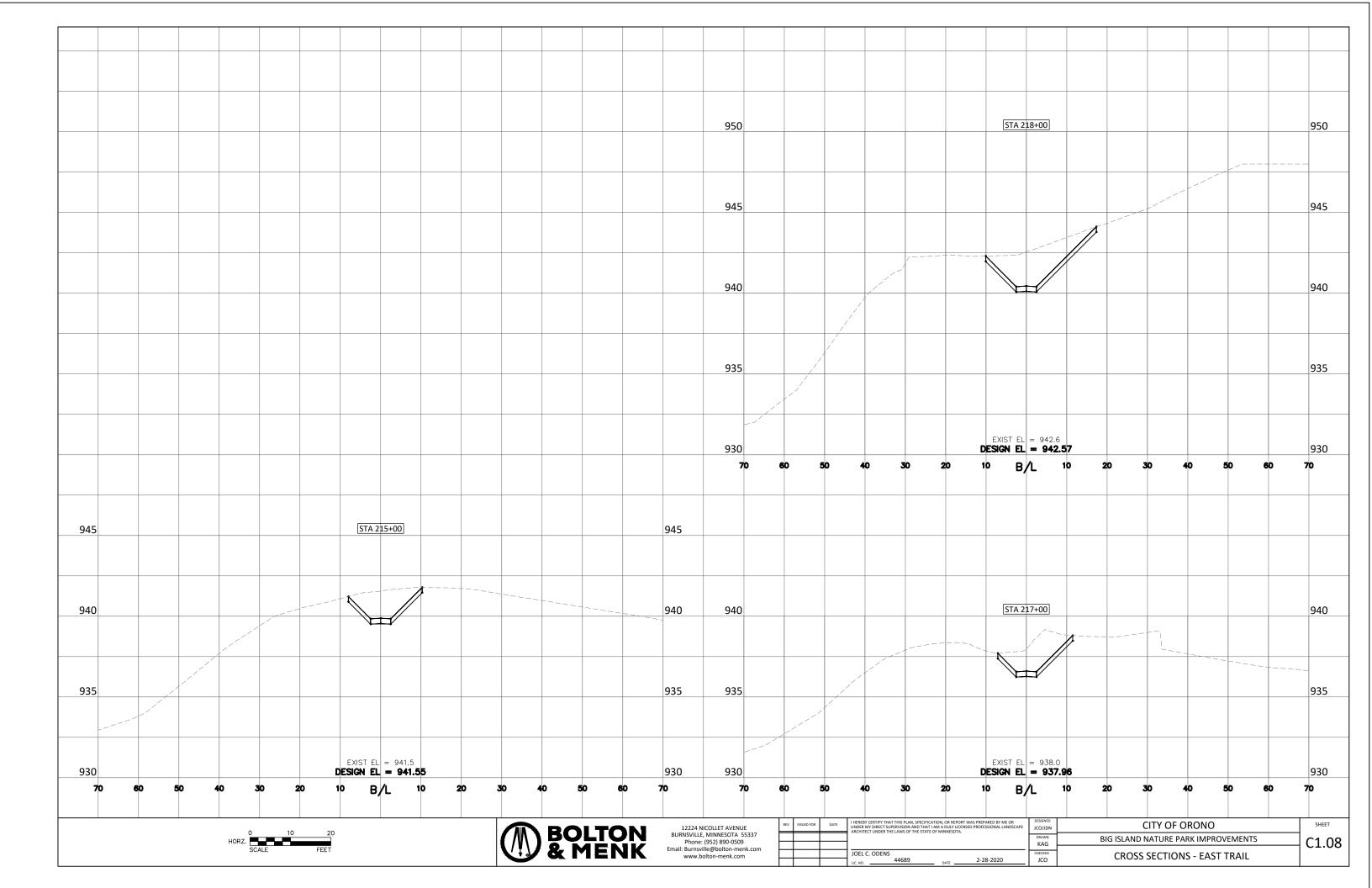
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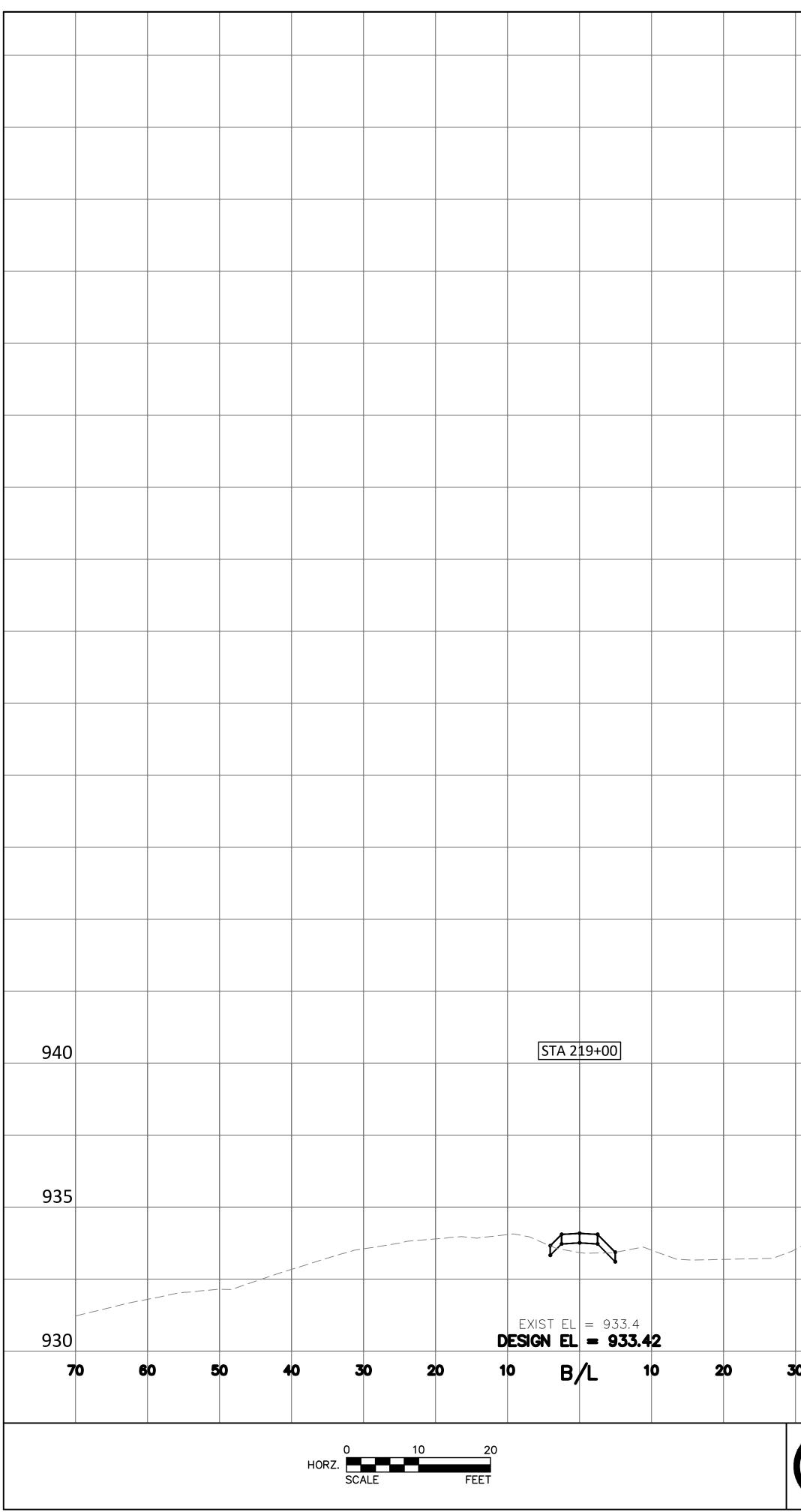




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<b>BOLTON</b> BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com					k.com		C. ODENS			DRAWN KAG	BIG ISLAND N					C1.09
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