

SITE AERIAL SCALE: N.T.S.

Contract Drawings For

Climate Adaptive Design (CAD) Studio Piermont Living Shoreline Project

Final 30% Conceptual Design
Civil/Environmental

Project No. 000000010177415

Piermont, New York July 2020

INDEX OF DRAWINGS

G-000 COVER SHEET

V-101 EXISTING CONDITIONS PLAN

C-101 PROPOSED SITE PLAN

L-101 PROPOSED LANDSCAPE PLAN

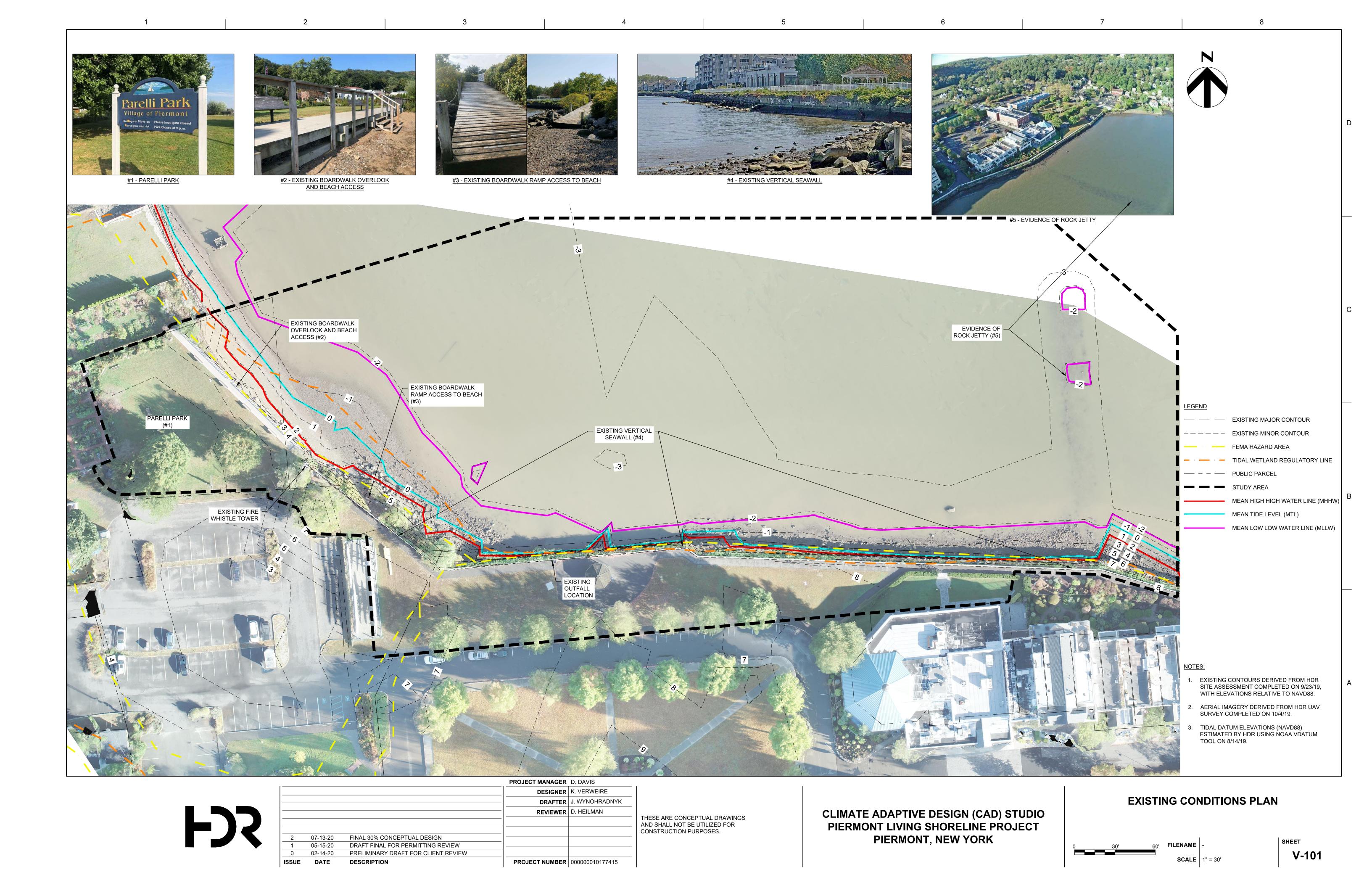
C-301 SECTIONS

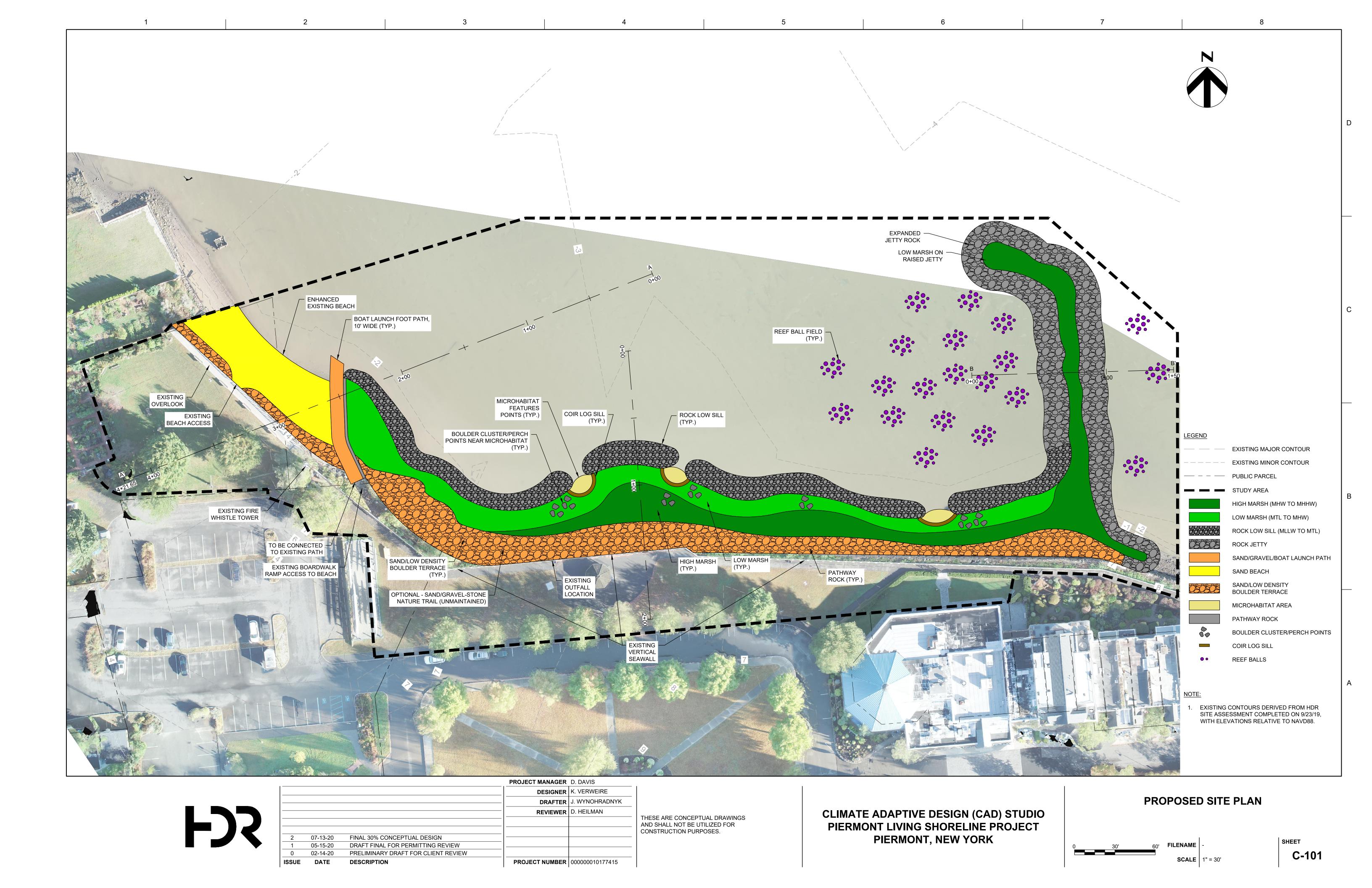
C-302 SECTIONS

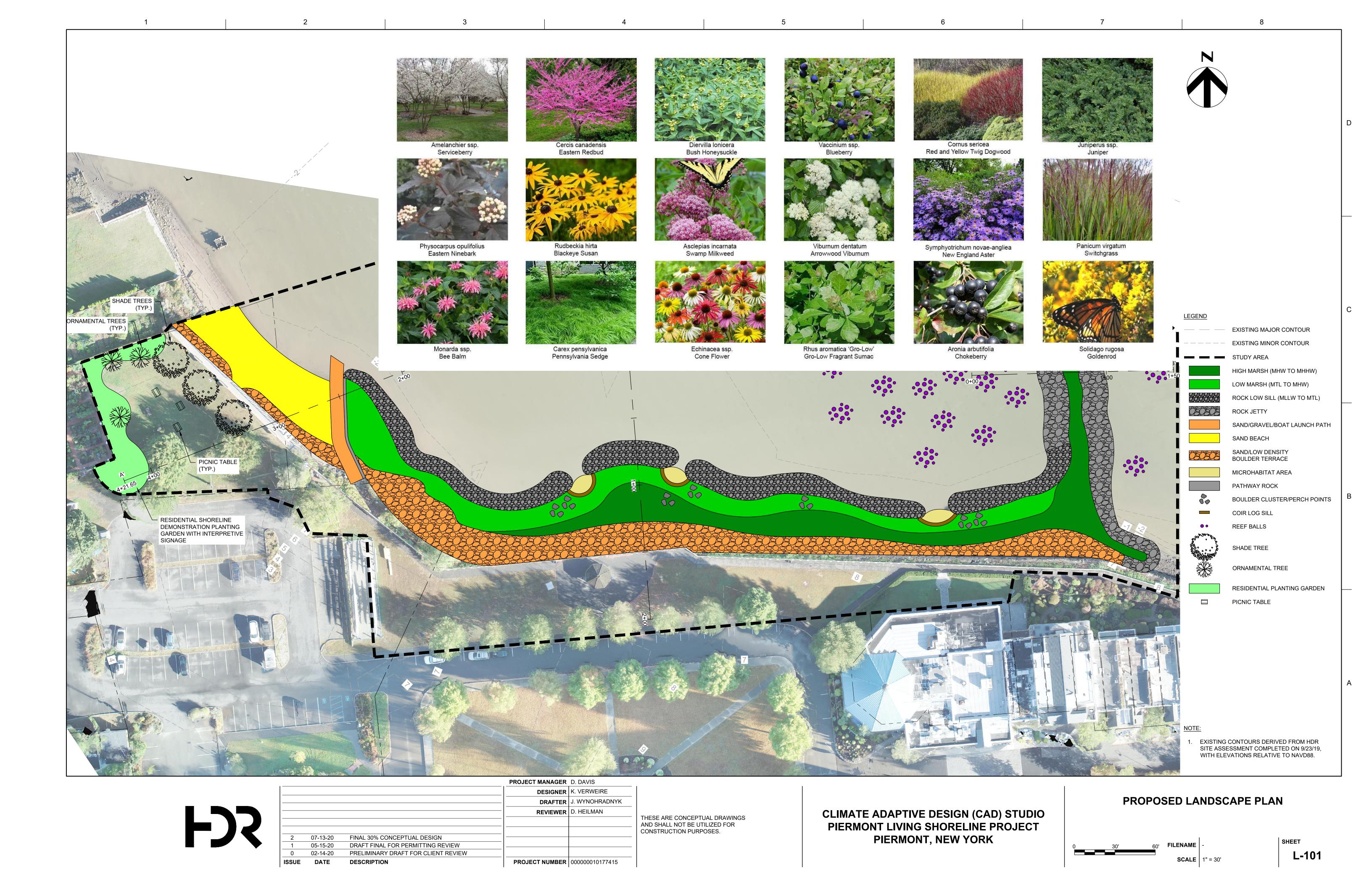
C-303 SECTIONS

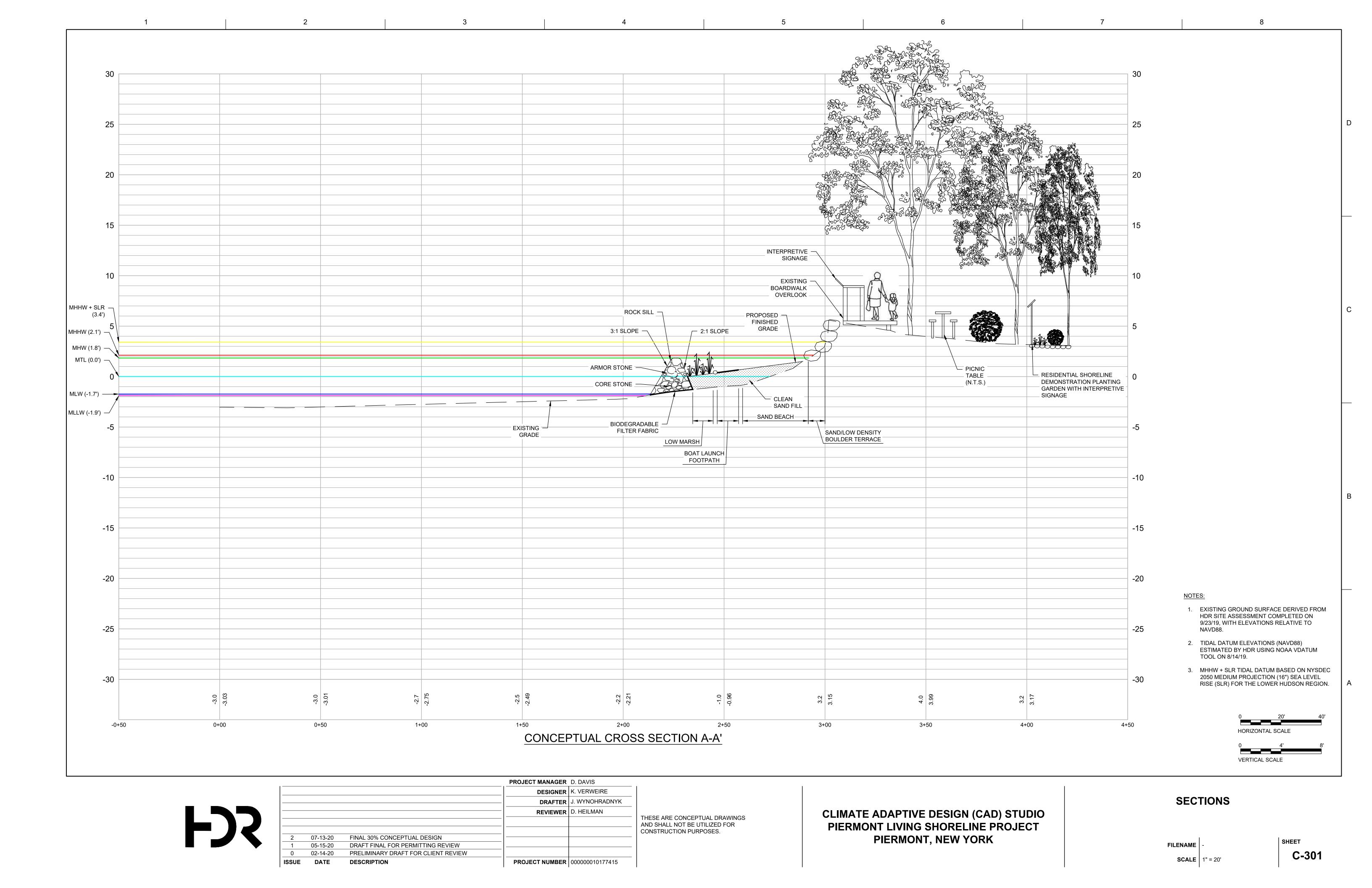
PROGRAM, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WITH SUPPORT FROM THE NEW YORK STATE ENVIRONMENTAL PROTECTION FUND, IN COOPERATION WITH NEIWPCC. THE VIEWPOINTS EXPRESSED HERE DO NOT NECESSARILY REPRESENT THOSE OF NEIWPCC OR NYS DEC, NOR DOES MENTION OF TRADE NAMES, COMMERCIAL PRODUCTS, OR CAUSES CONSTITUTE ENDORSEMENT OR RECOMMENDATION FOR USE.

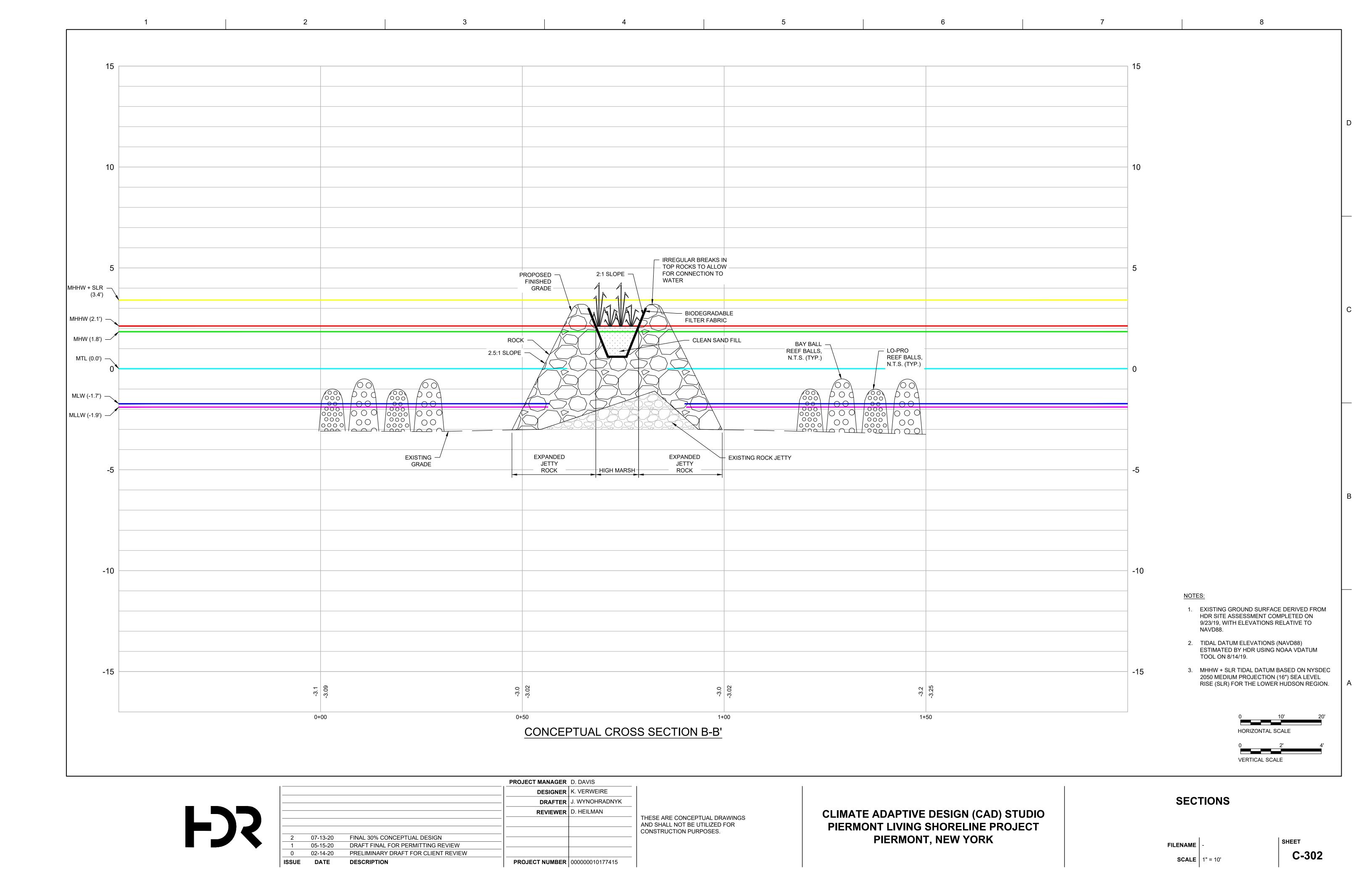
THESE CONCEPT PLANS HAVE BEEN PREPARED USING THE INFORMATION AVAILABLE AT THE TIME OF THEIR PREPARATION. THE PROPOSED PLANS ARE CONSISTENT WITH ENGINEERING INDUSTRY STANDARDS, ADAPTED TO LOCAL CONDITIONS, AND MEETS THE PROJECT GOALS.

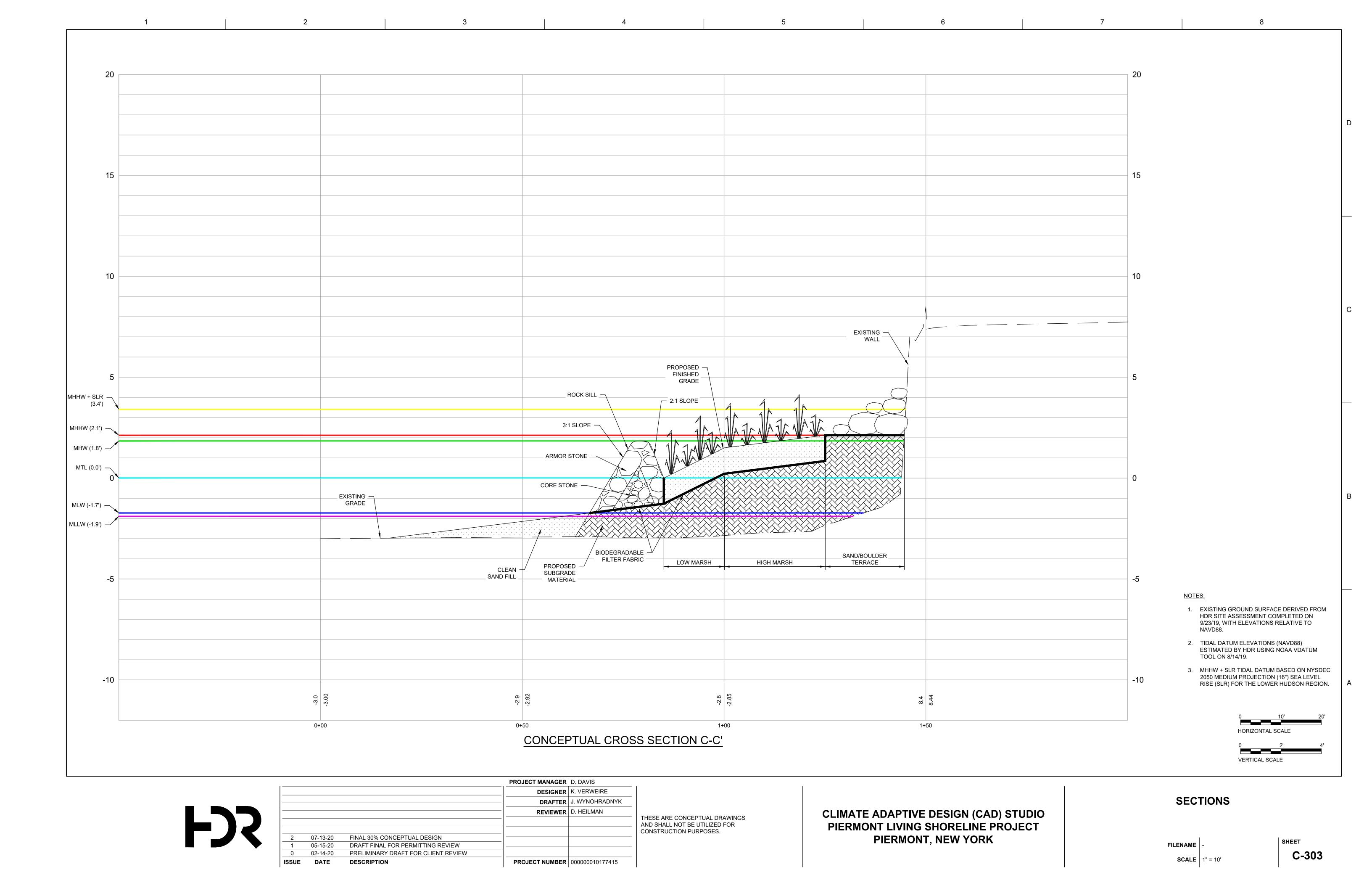














3' feet base diameter

- surface area 40 sq ft
- average number of holes 14
- wavy bottom
- interconnecting holes
- aggregated exposed outside surface
- · Weight 500 lbs
- Easy to deploy
- · Great for shallow water
- · Works well with docks

Source: Reef Innovations: https://reefinnovations.com/products-specs/reef-balls/198-2

1'6' top diameter

3' base diameter

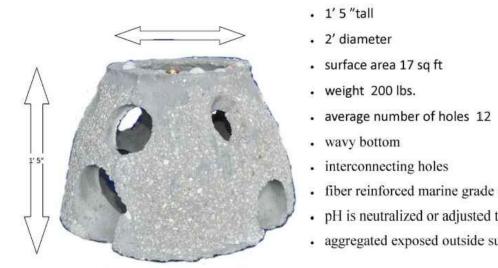
BAY BALL MODULE



4 PERCH BOULDER



Innovations Lo-Pro Reef Ball



1'5 "tall

 2' diameter surface area 17 sq ft

weight 200 lbs.

wavy bottom

interconnecting holes

fiber reinforced marine grade concrete

 pH is neutralized or adjusted to request aggregated exposed outside surface texture

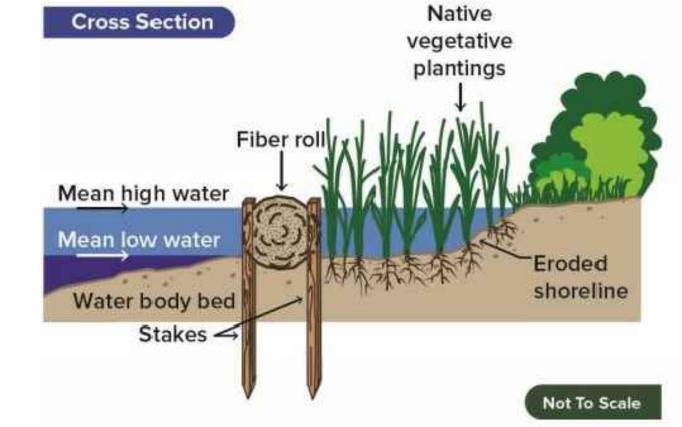
Modules may vary in weight and height, from the production process. Source: Reef Innovations: https://reefinnovations.com/products-specs/reef-balls/lo-pro

2 LO-PRO REEF BALL
- N.T.S.



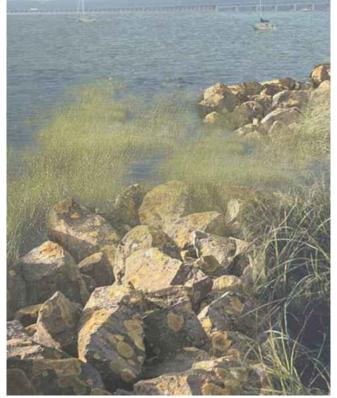
Source: NYSDEC. 2017. Tidal Wetlands Guidance Document. Living Shoreline Techniques in the Marine District of NYS.

3 ROCK SILL, MICROHABITAT FEATURE, AND LOW MARSH



Source: NYSDEC. 2017. Tidal Wetlands Guidance Document. Living Shoreline Techniques in the Marine

5 COIR LOG N.T.S.



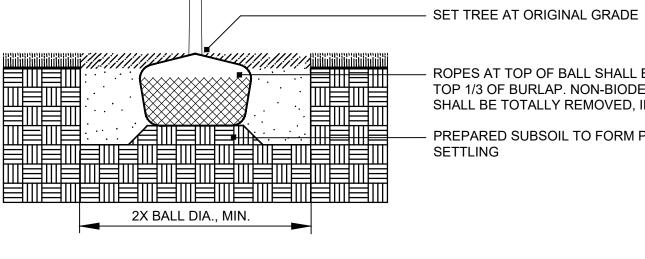
Source: CAD Studio Design: Evolve...Connect...Redefine.

6 ROCK JETTY
N.T.S.



Source: VIMS. Sept. 2017. Living Shoreline Design Guidelines for Shore Protection in Virginia's Estuarine Environments.

7 LOW MARSH



- ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/3 OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED, INCLUDING METAL BASKET PREPARED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING

8 TREE PLANTING DETAIL
- N.T.S.

			PROJECT MANAGER	D. DAVIS
			DESIGNER	K. VERWEIRE
			DRAFTER	J. WYNOHRADNYK
			REVIEWER	D. HEILMAN
2	07-13-20	FINAL 30% CONCEPTUAL DESIGN		
1	05-15-20	DRAFT FINAL FOR PERMITTING REVIEW		
0	02-14-20	PRELIMINARY DRAFT FOR CLIENT REVIEW		
SUE	DATE	DESCRIPTION	PROJECT NUMBER	000000010177415
		'		1

THESE ARE CONCEPTUAL DRAWINGS AND SHALL NOT BE UTILIZED FOR CONSTRUCTION PURPOSES.

CLIMATE ADAPTIVE DESIGN (CAD) STUDIO PIERMONT LIVING SHORELINE PROJECT PIERMONT, NEW YORK

DETAILS

FILENAME

C-501