

RiverFront Projects Public Meeting Revere MA

Point of Pines Yacht Club December 11, 2024



Weston & SampsonSM

 **HOWARD STEIN HUDSON**
Engineers + Planners
Delivering Solutions for Over 35 Years



PROJECT TEAM

City of Revere

- *Tom Skwierawski, Chief of Planning & Community Development*
- *Julie DeMauro, Transportation Coordinator*
- *Elle Baker, Open Space & Resilience Manager*
- *Frank Stringi, City Planner*

Howard Stein Hudson

- *Peter Wroblewski, P.E., Senior Civil Engineer*

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- *Devin Herrick, CWS, Env. Permitting*

AGENDA

1. Review Gibson Park Progress
2. Discuss 1A Roundabout Filing
3. Q and A





Gibson Park Updates

Gibson Park Resiliency Project Updates

Gibson Park existing + proposed



Gibson Park Resiliency Project Updates

- **MEPA SDEIR Submitted 07/01/24**
- **City MEPA Comment Letter submitted 08/23/24**
- **SDEIR Certificate Issued 08/30/24**
 - MEPA did not respond to access point and seawall questions
 - Raised concerns about maintenance access points, berm as designed
- **MEPA Meeting Held 10/22/24**
 - Attendance by City, Rep. Turco, MEPA Representatives
 - Invitation to attend neighborhood meeting declined, suggested written response
- **Formal Response Submitted 10/24/24**
 - Requested formal written opinion on seawall, access points
 - To date, no written response but December 10th conversation w/ CZM Director
- **Drainage Design Grant Received 10/2024**
 - Received \$280k grant to complete Riverside drainage plans
 - Funds will be matched by \$100k in City dollars, to commence Jan '24

Gibson Park Resiliency Project Next Steps

1. Based on resident feedback, Project Team intends to design project to exclude a berm and focus on park improvements only

2. Project Team will also move forward with Riverside drainage designs in January, when funds are awarded

3. Project Team will explore viability of using \$1.9m earmark for drainage construction or park improvements (uncertain)

Questions about the project: ebaker@revere.org

Concerns about approach: councillorguarino-sawaya@revere.org

Please email feedback to Councillor Guarino-Sawaya
by 12/31/24



1A Roundabout Updates

Proposed vs. Existing Conditions



PROJECT PHASING

Path: \\base03.local\WSE\Projects\Private\HSH - Revere Rt 1A Roundabout\Permitting\GIS\Maps\Phase Map.mxd User: Herick.Devin Saved: 12/4/2024 8:37:36 AM Opened: 12/4/2024 8:37:46 AM



Data Source: Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs

Legend

-  Rt 1A Roundabout Work Area
-  Gibson Park Work Area
-  MassDOT Roads

Rte 1A Ramp Modifications
and Gibson Park Access
Revere, MA

Project Phase Map

Weston & Sampson

PHASE ONE



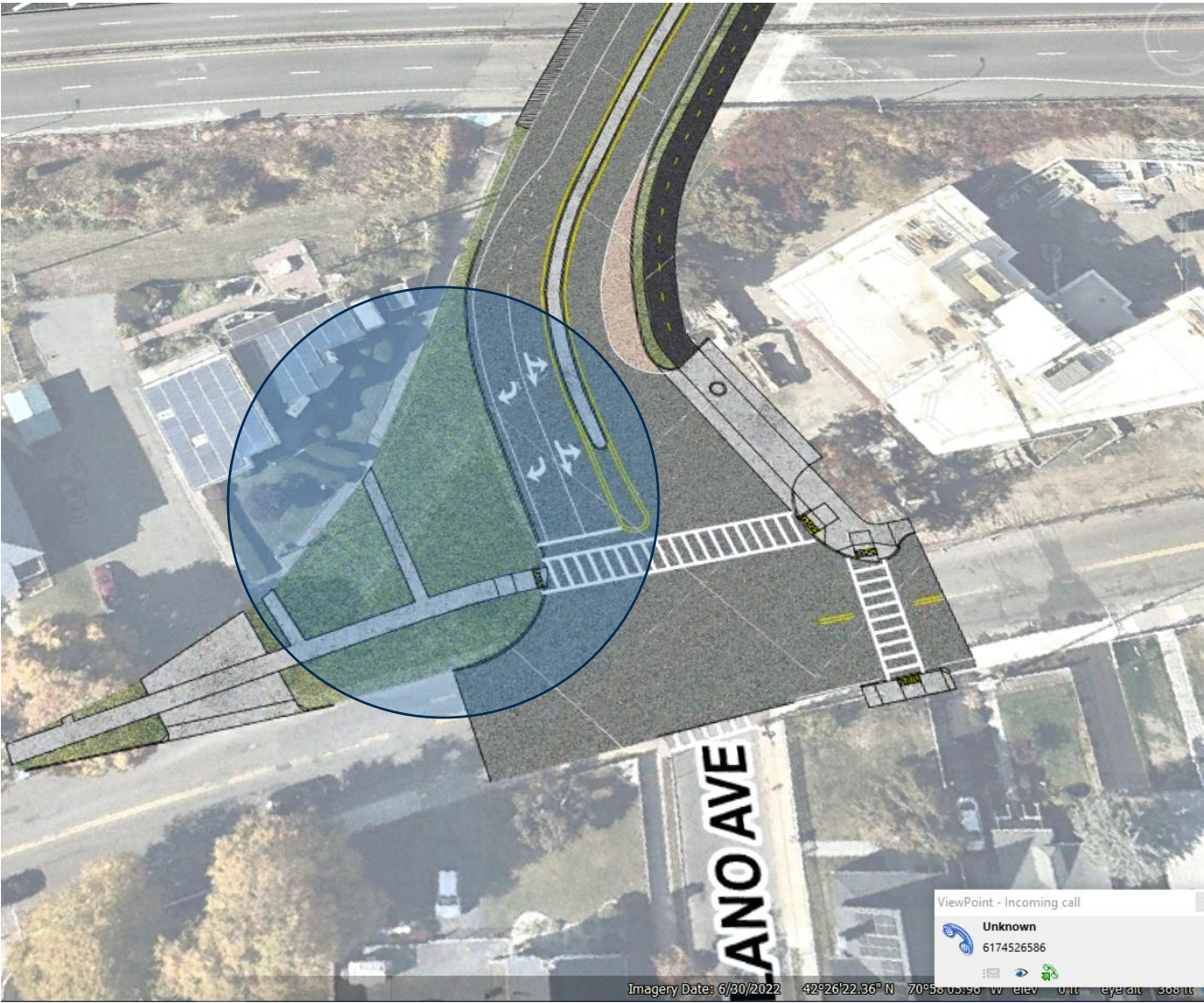
PHASE TWO



Change from Last Meeting



Change from Last Meeting





PROJECT PHASING - PHASE 1

- **100% of this project footprint is within State ROW and will require an access permit from MassDOT to construct.**
- **Resubmission of 75% / 100% plans was on 12/3**
- **Phase 1 includes the Roundabout and adjacent connecting infrastructure within the public ROW.**
- **This phase will provide access for emergency vehicles to service the private development at 22 Whitin.**



PROJECT PHASING - PHASE 2

- This project is approaching a preliminary design submission, at approximately 75% design.
- Additional traffic studies & analysis have been completed and will be included in submission
- The alignment of the Gibson Park Access drive shown in concept plans is the preferred alternative.
- The environmental requirements for this phase are significant and will take extended time for permitting.
- Construction schedule is TBD, but duration will be much shorter than the roundabout construction.

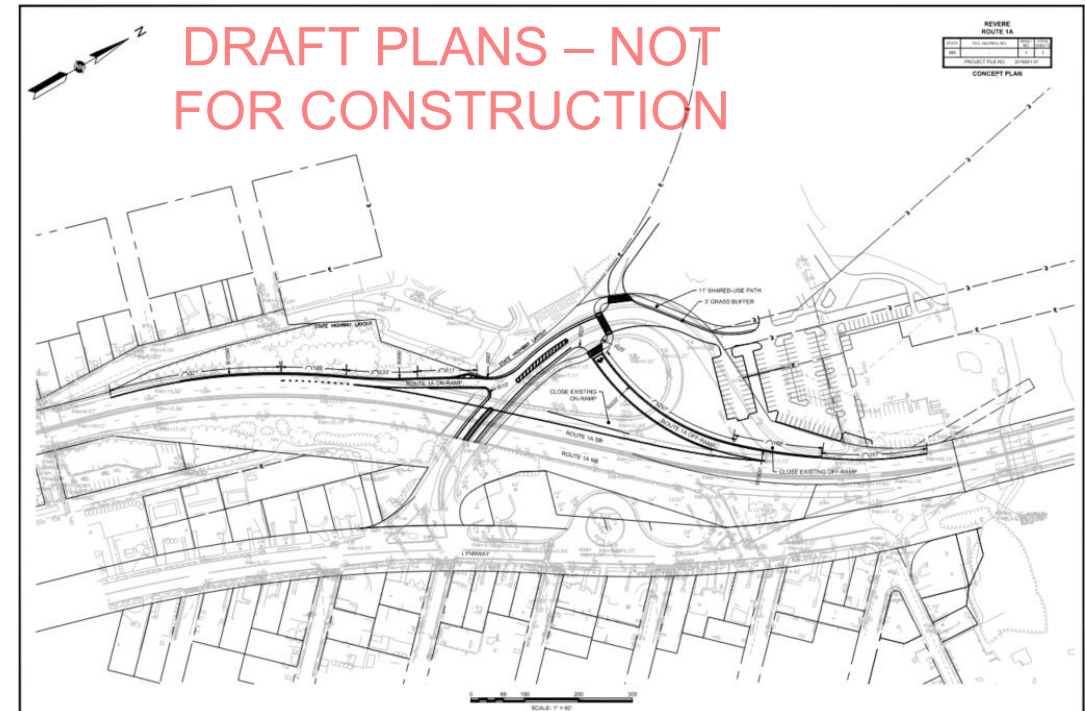


TRAFFIC CONSIDERATIONS

- The proposed roundabout design will not increase traffic volumes and provides sufficient capacity to accommodate anticipated future traffic volumes.
- A background growth rate compounded annually to the build year was utilized to account for any developments in the area which would impact the project roadways.
- During construction, nine total eight-hour working shifts are anticipated where traffic will be diverted through a detour.
- These shifts will be non-sequential and overnight to minimize public impact.

ALTERNATIVE CONSIDERED

- **Two Offset Three-way Intersections**
 - Most seriously considered alternative
 - Similar to roundabout aside from intersection
 - Analysis proved: no negative traffic impacts to Route 1A
 - Not enough physical space for sufficient On-Ramp
 - **NOT VIABLE**



DESIGN PROCESS



25% plans accepted by
Revere and MassDOT

Structural Design
(Geotechnical borings
and wall design)

Environmental
Permitting
(state and federal)

Stamped plans and State
Access Permit Issued

* We are here



PUBLIC COMMENTS

Public comment are welcome and encouraged!

Email: jdemauro@revere.org

MEPA Public Comment period will run until 1/10/2025. Public comment portal on MEPA EEA website.

[HTTPS://EEAONLINE.EEA.STATE.MA.US/EEA/PUBLICCOMMENT/LANDING/](https://EEAONLINE.EEA.STATE.MA.US/EEA/PUBLICCOMMENT/LANDING/)

SEARCH: PROJECT NAME – ROUTE 1A



Thank you!
Questions?



Project Benefits



Benefits of This Infrastructure Improvement – Phase 1 Roundabout

- **Creates access to Route 1A northbound and southbound to residents east of Route 1A**
- **Minimize traffic impacts to adjacent neighborhoods**
- **Addition of shared use path**
 - **Improve access to Gibson Park**
 - **Improve safety for access to Point of Pines neighborhood**
- **Reduce response times for emergency response vehicles**



Benefits of This Infrastructure Improvement – Phase 2 Gibson Park Access

- Will provide vehicle access to Gibson park by way of the roundabout
- Only access to Gibson Park after accessibility through Riverside neighborhood is eliminated
- Increased parking for public access to park amenities

Less Viable Alternatives

ALTERNATIVES CONSIDERED

- **Concept A**
 - Introduces a stop-controlled intersection at the end of the south bound (SB) ramp.
 - Introduces new north bound (NB) on-ramp and off-ramp at the Lynn intersection.
 - Includes direct access to private development at the existing driveway apron abutting 1A southbound.
 - **NOT VIABLE**

CONCEPTUAL DESIGN
June 2020

Figure 1. Concept A



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ALTERNATIVES CONSIDERED

- **Concept B1/B2**
 - Introduces a new stop-controlled intersection on Route 1A.
 - These alternatives include the least amount of new impervious materials compared to other alternatives.
 - Concept B2 includes an additional exit ramp to retain access to the Lynnway.
 - **NOT VIABLE**

CONCEPTUAL DESIGN
June 2020

Figure 2. Concept B1



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ALTERNATIVES CONSIDERED

- **Concept B1/B2**
 - Introduces a new stop-controlled intersection on Route 1A.
 - These alternatives include the least amount of new impervious materials compared to other alternatives.
 - Concept B2 includes an additional exit ramp to retain access to the Lynnway.
 - **NOT VIABLE**

CONCEPTUAL DESIGN
June 2020

Figure 3. Concept B2



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ALTERNATIVES CONSIDERED

- **Concept C**
 - Concept C is similar to Concept A but does not provide direct access for the private development to the Route 1A SB Off-Ramp. Instead, it provides access to the development with a new access road at a lower elevation.
 - Compared to Concept A, this concept has an extended length of Route 1A SB off-ramp, which is desirable.
 - **NOT VIABLE**

CONCEPTUAL DESIGN
JUNE 2020

Figure 4. Concept C



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ALTERNATIVES CONSIDERED

- **Concept D**
 - Retains the general shape of the existing on-ramp and off-ramp.
 - Includes a stop condition intersection.
 - **NOT VIABLE**

CONCEPTUAL DESIGN
June 2020

Figure 5. Concept D



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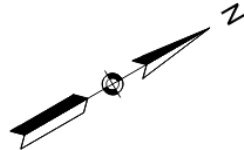
Construction Drawings

HIGHWAY GUARD DETAILS

R&D EXISTING GUARDRAIL
STA 20+35 RT - STA 25+69 RT
PROPOSED GUARDRAIL TL-2
STA 20+69 RT - STA 22+62 RT
STA 501+38 RT - STA 507+62 RT
PROP TRAILING ANCHORAGE
STA 22+62 RT - STA 22+72 RT
TRANSITION FROM BRIDGE RAIL
STA 20+35 RT - STA 20+69 RT
PROP F TYPE BARRIER
STA 501+68 LT - STA 503+99 LT

TRAFFIC SIGNAL CONDUIT

NONE



WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 55

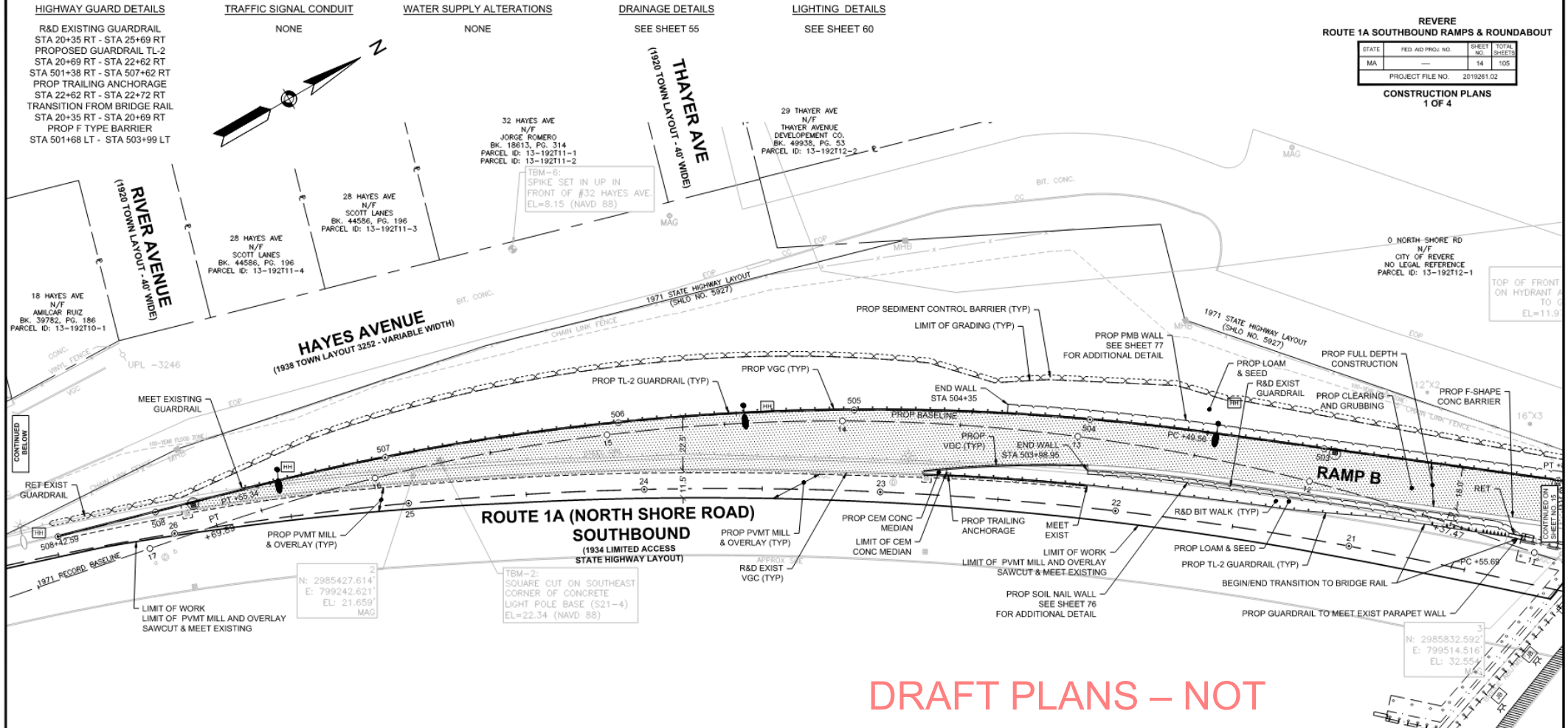
LIGHTING DETAILS

SEE SHEET 60

REVERSE
ROUTE 1A SOUTHBOUND RAMPS & ROUNDABOUT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	14	105

PROJECT FILE NO. 2019261.02
CONSTRUCTION PLANS
1 OF 4



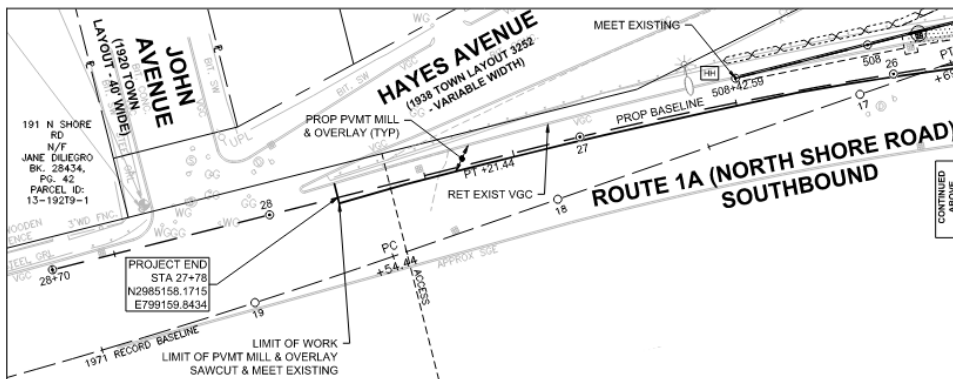
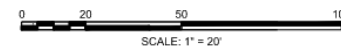
DRAFT PLANS – NOT FOR CONSTRUCTION

NOTES:

1. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A COASTAL DUNE WETLAND RESOURCE AREA.
2. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A BARRIER BEACH WETLAND RESOURCE AREA.

FOR ROUTE 1A PROFILE: SEE SHEET NO. 18-19

FOR RAMP B PROFILE: SEE SHEET NO. 22



HIGHWAY GUARD DETAILS

TRAFFIC SIGNAL CONDUIT

WATER SUPPLY ALTERATIONS

DRAINAGE DETAILS

LIGHTING DETAILS

NONE

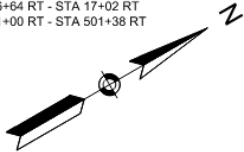
NONE

SEE SHEET 56

SEE SHEET 61

R&D EXISTING GUARDRAIL
EXISTING ON-RAMP (372)
PROPOSED GUARDRAIL TL-2
STA 17+02 RT - STA 18+18 RT
TRANSITION TO BRIDGE RAIL
STA 18+18 RT - STA 18+52 RT
PROP TANGENT END TREATMENT
STA 16+64 RT - STA 17+02 RT
STA 501+00 RT - STA 501+38 RT

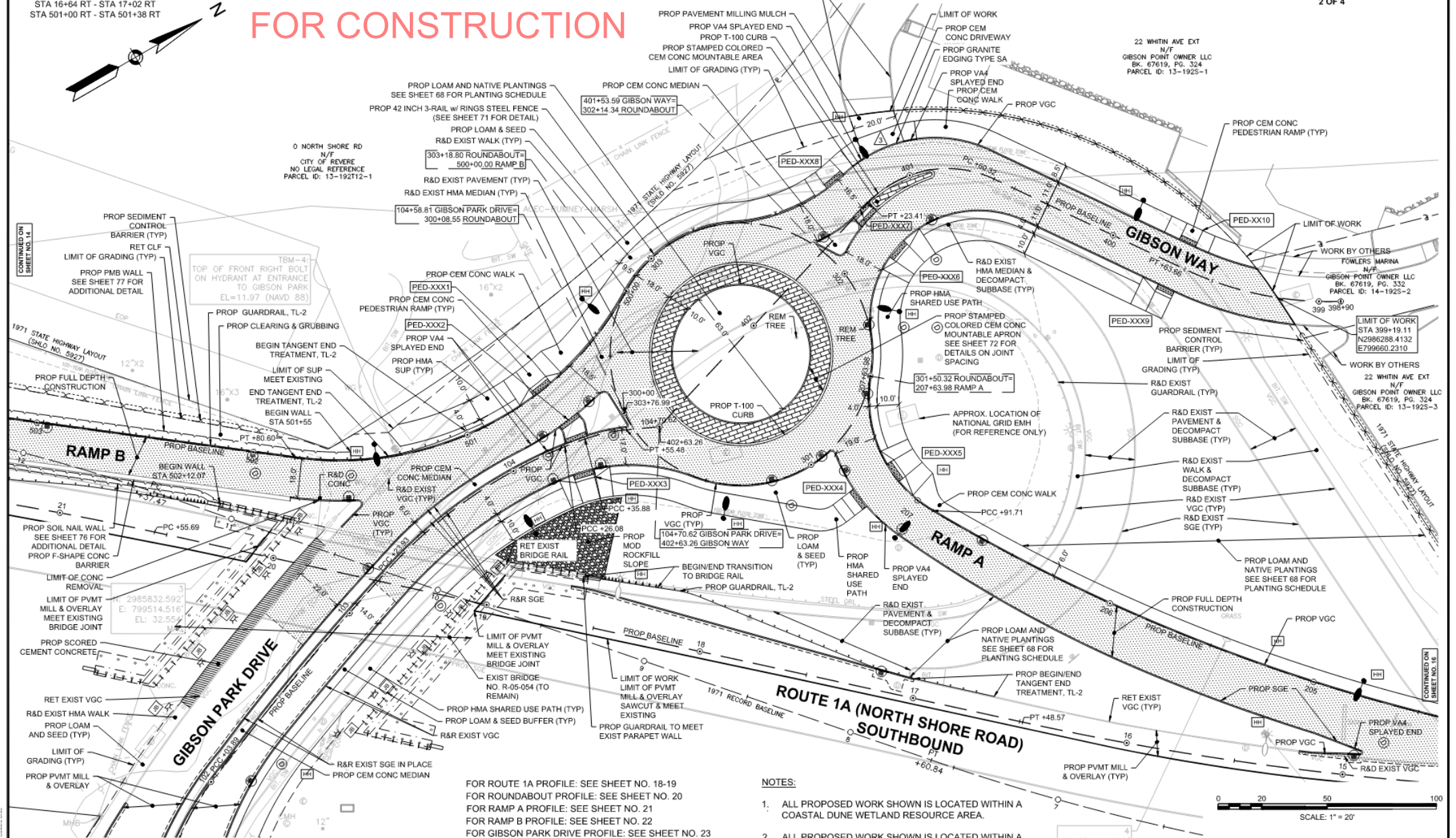
DRAFT PLANS - NOT FOR CONSTRUCTION



REVERSE
ROUTE 1A SOUTHBOUND RAMPS & ROUNDABOUT

STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		15	105

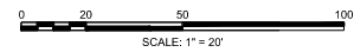
CONSTRUCTION PLANS
2 OF 4



FOR ROUTE 1A PROFILE: SEE SHEET NO. 18-19
 FOR ROUNDABOUT PROFILE: SEE SHEET NO. 20
 FOR RAMP A PROFILE: SEE SHEET NO. 21
 FOR RAMP B PROFILE: SEE SHEET NO. 22
 FOR GIBSON PARK DRIVE PROFILE: SEE SHEET NO. 23
 FOR GIBSON WAY PROFILE: SEE SHEET NO. 24

NOTES:

1. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A COASTAL DUNE WETLAND RESOURCE AREA.
2. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A BARRIER BEACH WETLAND RESOURCE AREA.



N: 2986190.012
 E: 799783.995

CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 17

CONTINUED ON SHEET NO. 15

HIGHWAY GUARDRAIL DETAILS

PROPOSED GUARDRAIL TL-2
STA 10+66 RT - STA 11+43 RT
PROP TRAILING ANCHORAGE
STA 11+43 RT - STA 11+53 RT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 57

LIGHTING DETAILS

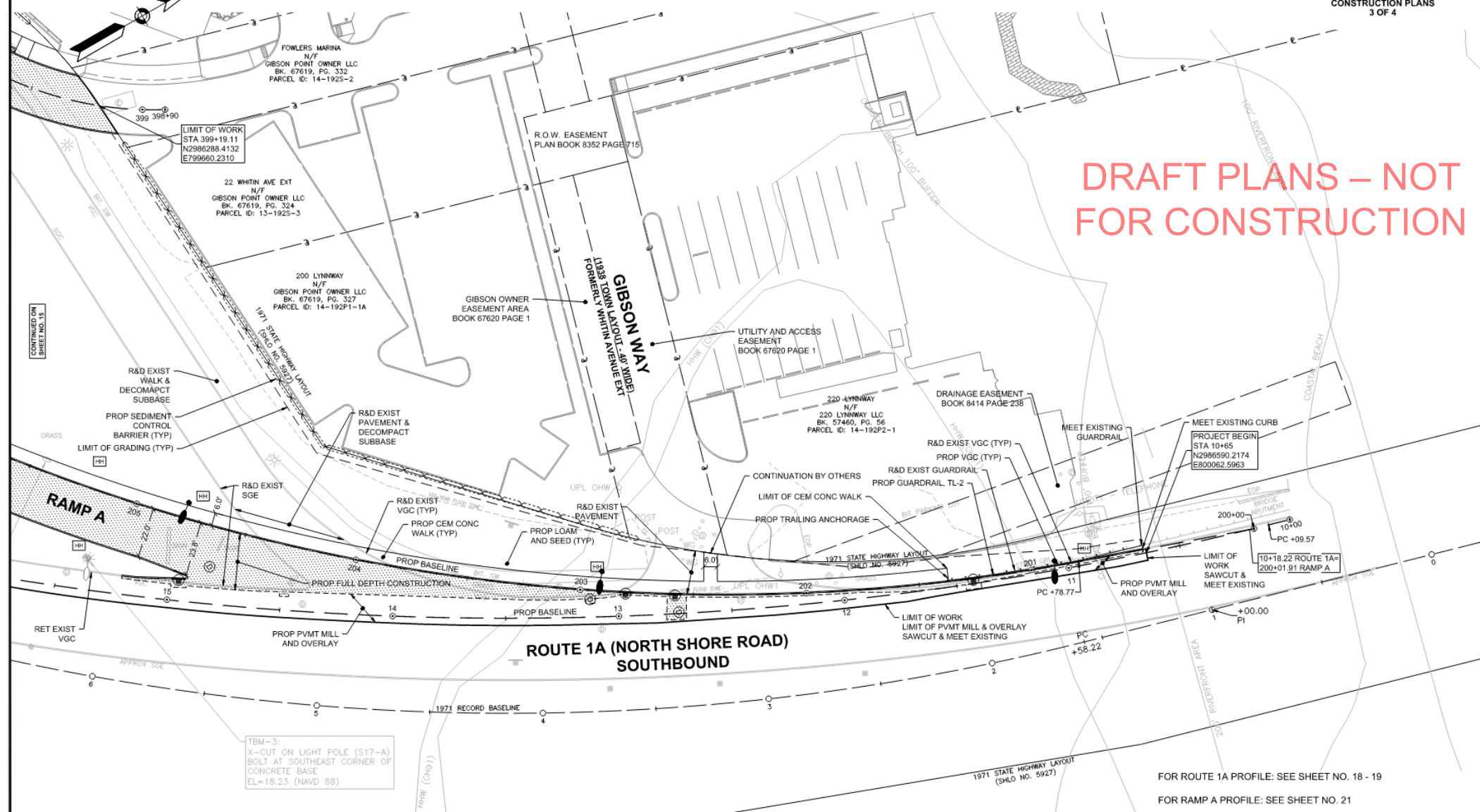
SEE SHEET 62

REVERSE
ROUTE 1A SOUTHBOUND RAMPS & ROUNDABOUT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	16	105

PROJECT FILE NO. 2919281.02
CONSTRUCTION PLANS
3 OF 4

**DRAFT PLANS – NOT
FOR CONSTRUCTION**



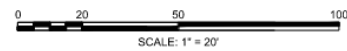
CONTINUED ON
SHEET NO. 15

TBM-3:
X-CUT ON LIGHT POLE (S17-A)
BOLT AT SOUTHEAST CORNER OF
CONCRETE BASE
EL=18.23 (NAVD 88)

NOTES:

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2. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A BARRIER BEACH WETLAND RESOURCE AREA.

FOR ROUTE 1A PROFILE: SEE SHEET NO. 18 - 19
FOR RAMP A PROFILE: SEE SHEET NO. 21



1971 STATE HIGHWAY LAYOUT (SHLD NO. 5927)

NOTED: IMPROVED STRUCTURAL PLANNING DATE: 2/20/2025 3:58 PM

NONE

NONE

NONE

SEE SHEET 58

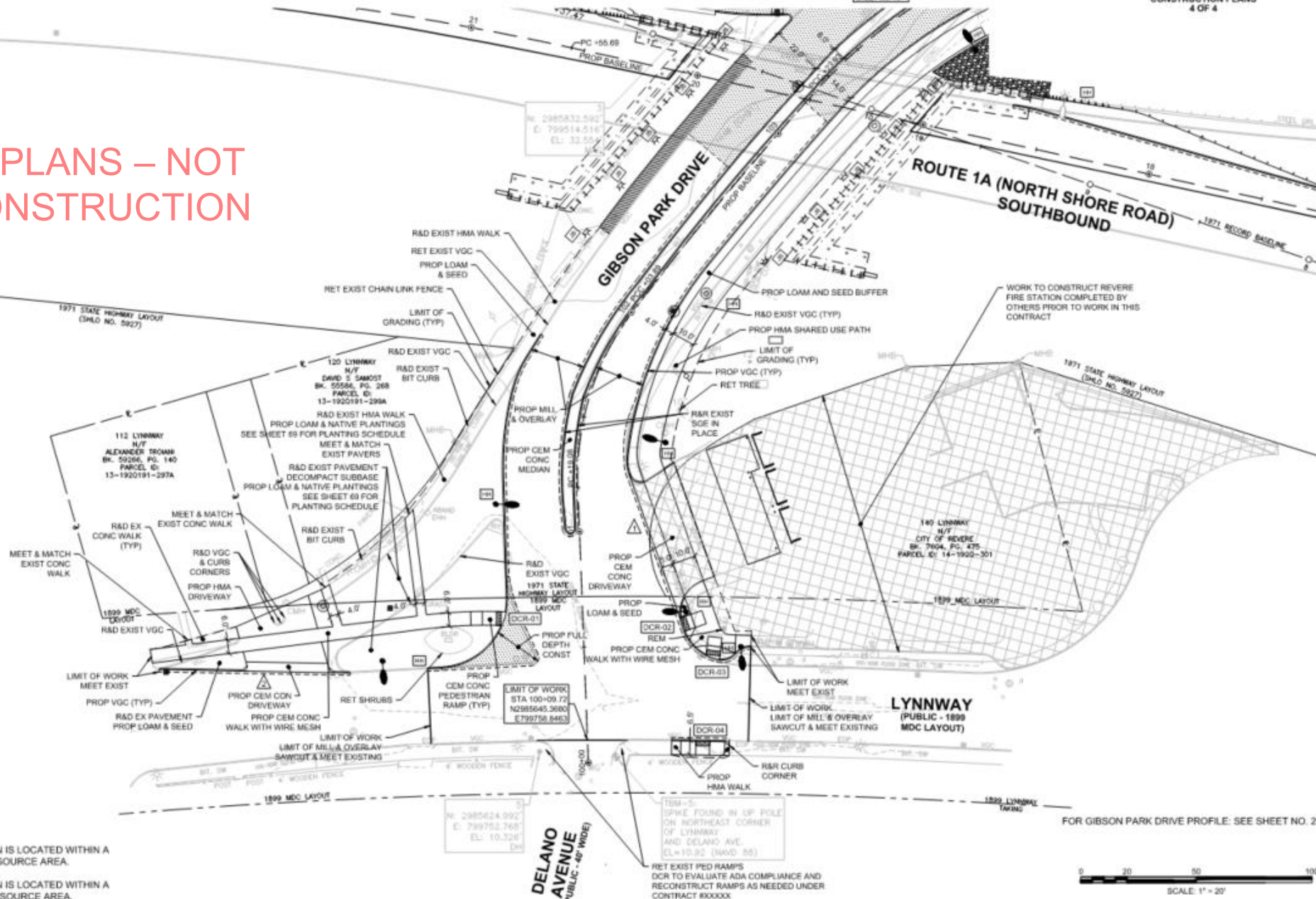
SEE SHEET 63

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		17	108

PROJECT FILE NO. 2019081.02

CONSTRUCTION PLANS
4 OF 4

DRAFT PLANS – NOT
FOR CONSTRUCTION



NOTES:

1. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A COASTAL DUNE WETLAND RESOURCE AREA.
2. ALL PROPOSED WORK SHOWN IS LOCATED WITHIN A BARRIER BEACH WETLAND RESOURCE AREA.

FOR GIBSON PARK DRIVE PROFILE: SEE SHEET NO. 23

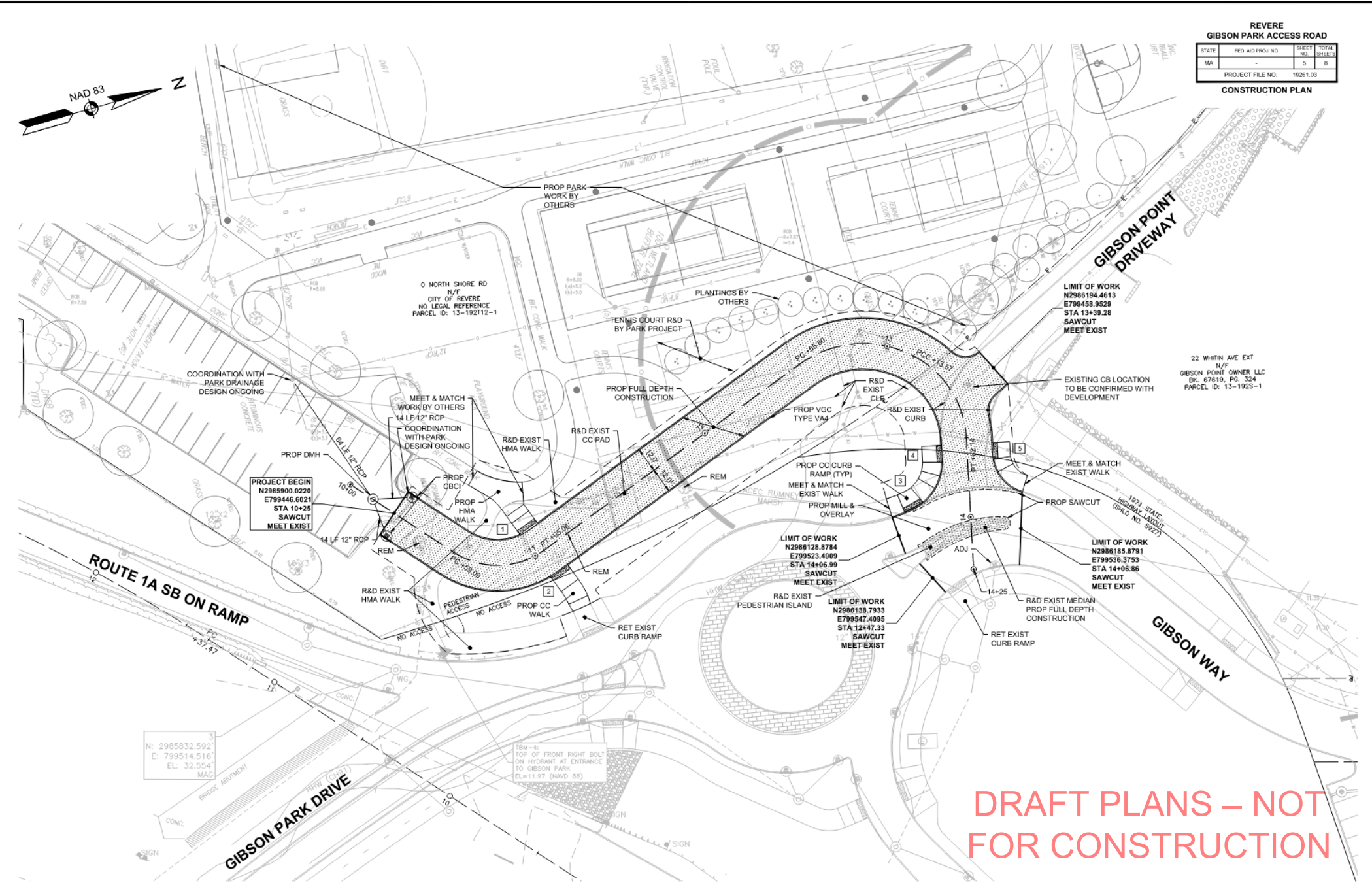
0 20 50 100
SCALE: 1" = 20'



**REVERE
GIBSON PARK ACCESS ROAD**

STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		5	9

PROJECT FILE NO. 19261.03
CONSTRUCTION PLAN



PROJECT BEGIN
N2985900.0220
E799446.6021
STA 10+25
SAWCUT
MEET EXIST

LIMIT OF WORK
N2986128.8784
E799523.4909
STA 14+06.99
SAWCUT
MEET EXIST

LIMIT OF WORK
N2986138.7933
E799547.4095
STA 12+47.33
SAWCUT
MEET EXIST

LIMIT OF WORK
N2986194.4613
E799458.9529
STA 13+39.28
SAWCUT
MEET EXIST

22 WHITIN AVE EXT
N/F
GIBSON POINT OWNER LLC
BK: 67619, PG: 324
PARCEL ID: 13-1925-1

LIMIT OF WORK
N2986185.8791
E799536.3753
STA 14+06.86
SAWCUT
MEET EXIST

N: 2985832.592'
E: 799514.516'
EL: 32.554'
MAG

TEM-4:
TOP OF FRONT RIGHT BOLT
ON HYDRANT AT ENTRANCE
TO GIBSON PARK
EL=11.97 (NAVD 88)

DRAFT PLANS – NOT
FOR CONSTRUCTION

0 20 50 100
SCALE: 1" = 20'

FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 6

Environmental Impact

FEMA MAP

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, X99
- With BFE or Depth Zone AE, AD, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levees. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

- 20.2
- 17.6

OTHER FEATURES

- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

Legend
 Phase 1 - Rt 1A Roundabout Work Area
 Phase 2 - Gibson Park Work Area

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/30/2024 at 4:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unclassified areas cannot be used for regulatory purposes.

FIGURE 2
 Route 1A Southbound Ramps
 & Roundabout Project
 Revere, MA
 FEMA Map



WETLAND RESOURCES MAP

Path: \\wse03.local\WSE\Projects\Private\HSH - Revere Rt 1A Roundabout\Permitting\GIS\Maps\Wetland Resource Areas.mxd User: Herrick Devin Saved: 11/21/2024 5:05:20 PM Opened: 12/3/2024 9:19:52 AM



- Legend**
- Rt 1A Roundabout Work Area
 - Gibson Park Work Area
 - Approximate 200 foot Riverfront Area
 - Approximate 100 foot Riverfront Area
 - Approximate Salt Marsh 100ft Buffer Zone
 - Approximate Salt Marsh
 - Approximate Coastal Beach 100ft Buffer Zone
 - HAT NAVD88 Landward Limit Coastal Beach
 - MHW NAVD88 Seaward Limit Coastal Beach
 - MassDOT Roads
 - Marsh/Bog
 - Wooded marsh
 - Cranberry Bog
 - Salt Marsh
 - Open Water
 - Reservoir (with PWSID)
 - Tidal Flats
 - Beach/Dune

Route 1A Southbound Ramps
& Roundabout Project
Revere, MA

Wetland Resource Areas



Data Source: Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs

ANTICIPATED ENVIRONMENTAL IMPACTS

Table 1 – Summary of Wetland Resource Area Impacts under the WPA (Total Phase 1 and 2)

Resource Area	Temporary	Permanent	Total
Land Subject to Coastal Storm Flowage	64,598 SF	21,792 SF	86,390 SF
Barrier Beach	134,975 SF	72,139 SF	207,114 SF
Coastal Dune	134,975 SF	72,139 SF	207,114 SF

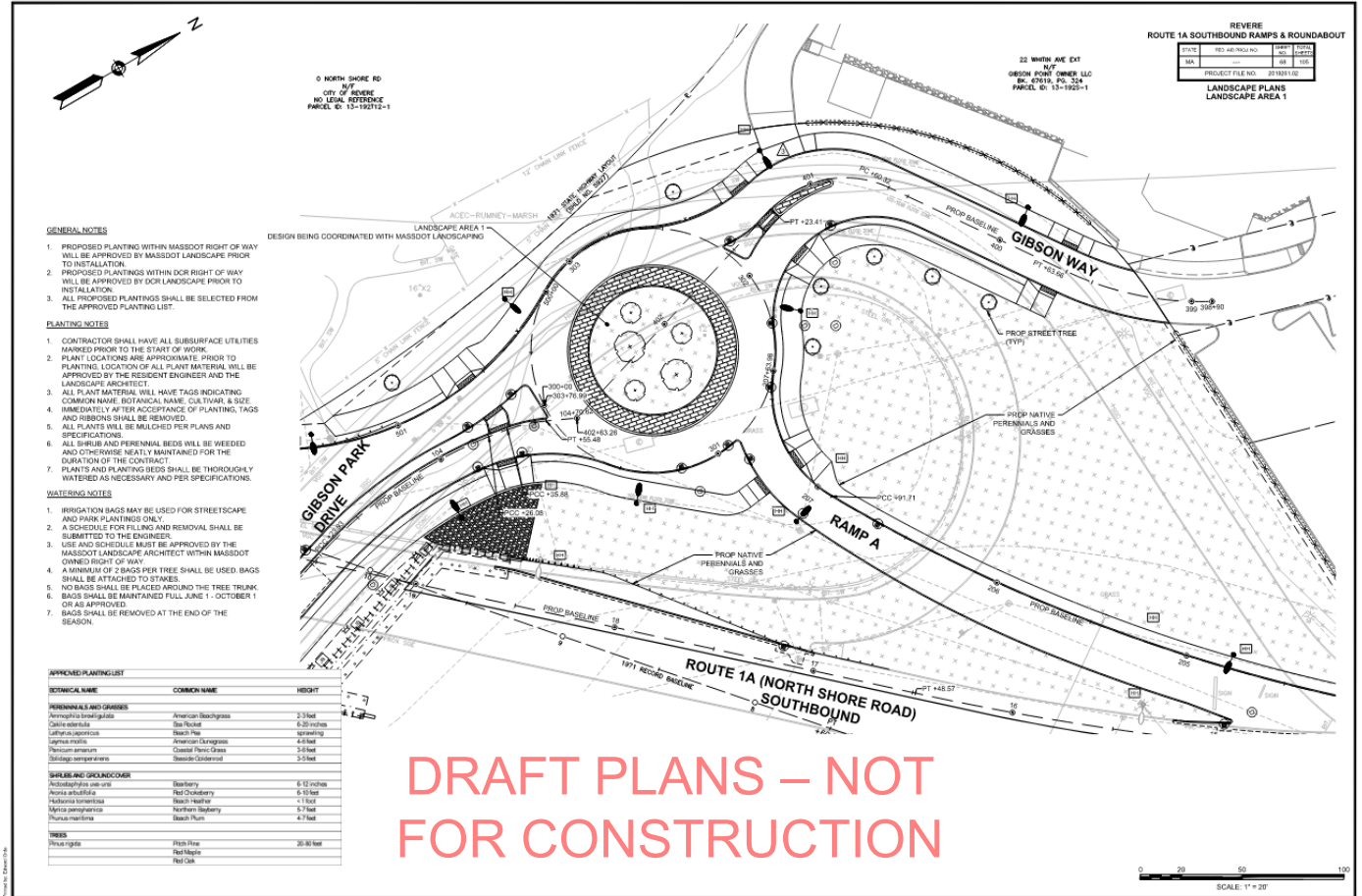
Table 2 - Summary of Wetland Resource Area Impacts under the WPA (Phase 1)

Resource Area	Temporary	Permanent	Total
Land Subject to Coastal Storm Flowage	50,949 SF	14,662 SF	65,611 SF
Barrier Beach	121,326 SF	65,009 SF	186,335 SF
Coastal Dune	121,326 SF	65,009 SF	186,335 SF

Table 3 - Summary of Wetland Resource Area Impacts under the WPA (Phase 2)

Resource Area	Temporary	Permanent	Total
Land Subject to Coastal Storm Flowage	13,649 SF	7,130 SF	20,779 SF
Barrier Beach	13,649 SF	7,130 SF	20,779 SF
Coastal Dune	13,649 SF	7,130 SF	20,779 SF

DUNE PLANTINGS



DUNE PLANTINGS

APPROVED PLANTING LIST		
BOTANICAL NAME	COMMON NAME	HEIGHT
PERENNNIALS AND GRASSES		
<i>Ammophila breviligulata</i>	American Beachgrass	2-3 feet
<i>Cakile edentula</i>	Sea Rocket	6-20 inches
<i>Lathyrus japonicus</i>	Beach Pea	sprawling
<i>Leymus mollis</i>	American Dunegrass	4-6 feet
<i>Panicum amarum</i>	Coastal Panic Grass	3-6 feet
<i>Solidago sempervirens</i>	Seaside Goldenrod	3-5 feet
SHRUBS AND GROUNDCOVER		
<i>Arctostaphylos uva-ursi</i>	Bearberry	6-12 inches
<i>Aronia arbutifolia</i>	Red Chokeberry	6-10 feet
<i>Hudsonia tomentosa</i>	Beach Heather	< 1 foot
<i>Myrica pensylvanica</i>	Northern Bayberry	5-7 feet
<i>Prunus maritima</i>	Beach Plum	4-7 feet
TREES		
<i>Pinus rigida</i>	Pitch Pine	20-80 feet
	Red Maple	
	Red Oak	