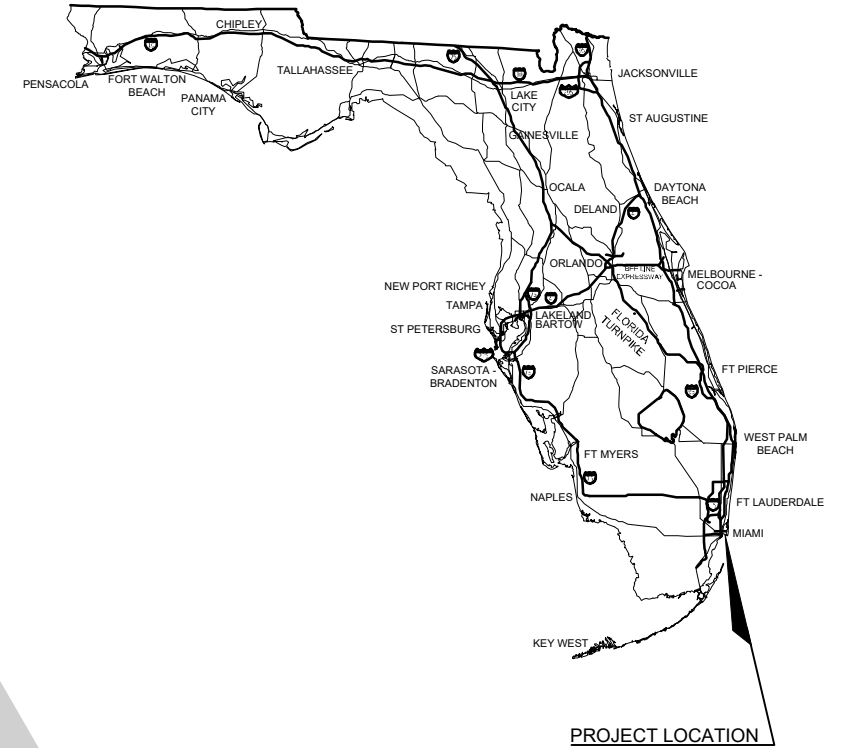


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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DPTW)

15% CONCEPT PLANS (VOLUME 2 OF 2)

BEACH CORRIDOR RAPID TRANSIT PD&E MIAMI-DADE COUNTY



BEACH CORRIDOR RAPID TRANSIT PROJECT PD&E

ENEIDA MARTINEZ, P.E.
P.E. NO.: 80804
PARSONS
7600 CORPORATE CENTER DRIVE, SUITE 104
MIAMI, FL, 33126
CONTRACT NO.: CIP142-1-TPW16-PE1(1)
PROJECT NO.: CIP153
VENDOR NO.: 360982270 04
CERTIFICATE OF AUTHORIZATION NO.: 1838
MIAMI-DADE DTPW PM:
JIE BIAN, Ph. D.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	2020	100B

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INDEX OF CONCEPT PLANS

GENERAL INFORMATION

SHEET NO.	DWG NO.	SHEET DESCRIPTION
100B	GBS000	COVER (VOLUME 2)
	GSS002	SIGNATURE SHEET - VOLUME 2 (NOT INCLUDED)
	GXB102	INDEX OF DRAWINGS (VOLUME 2)

GUIDEWAY STRUCTURES
BAY CROSSING SEGMENT

DWG NO.	SHEET DESCRIPTION
W-001	GENERAL NOTES (1 OF 2)
W-002	GENERAL NOTES (2 OF 2)
W-003	PLAN AND ELEVATION (1 OF 30)
W-004	PLAN AND ELEVATION (2 OF 30)
W-005	PLAN AND ELEVATION (3 OF 30)
W-006	PLAN AND ELEVATION (4 OF 30)
W-007	PLAN AND ELEVATION (5 OF 30)
W-008	PLAN AND ELEVATION (6 OF 30)
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W-025	PLAN AND ELEVATION (23 OF 30)
W-026	PLAN AND ELEVATION (24 OF 30)
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W-028	PLAN AND ELEVATION (26 OF 30)

GUIDEWAY STRUCTURES
BAY CROSSING SEGMENT

DWG NO.	SHEET DESCRIPTION
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W-30	PLAN AND ELEVATION (28 OF 30)
W-031	PLAN AND ELEVATION (29 OF 30)
W-032	PLAN AND ELEVATION (30 OF 30)
W-033	TYPICAL SECTION - WEST BRIDGE
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W-035	TYPICAL SECTION - CAUSEWAY (1 OF 2)
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W-037	TYPICAL SECTION - EAST BRIDGE

GUIDEWAY STRUCTURES
MIAMI SEGMENT (CON'T)

DWG NO.	SHEET DESCRIPTION
W-080	PROJECT KEY MAP - STRUCTURE
W-081	PLAN AND ELEVATION (1 OF 2)
W-082	PLAN AND ELEVATION (2 OF 2)
W-083	TYPICAL SECTION

GUIDEWAY STRUCTURES
MIAMI BEACH SEGMENT (CON'T)

DWG NO.	SHEET DESCRIPTION
W-090	PLAN AND ELEVATION (1 OF 5)
W-091	PLAN AND ELEVATION (2 OF 5)
W-092	PLAN AND ELEVATION (3 OF 5)
W-093	PLAN AND ELEVATION (4 OF 5)
W-094	PLAN AND ELEVATION (5 OF 5)
W-095	TYPICAL SECTION (1 OF 2)
W-096	TYPICAL SECTION (2 OF 2)

				DESIGNED BY A.CH.	 DTPW TRANSIT	BEACH CORRIDOR RAPID TRANSIT PD&E - CIP # 153				 7600 NW 19TH STREET, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION No. 1838 ENEIDA MARTINEZ, P.E. LICENSE No. 80804			DRAWING TITLE: GENERAL INDEX OF DRAWINGS VOLUME 2	
				DRAWN BY R.U. & JMR									DRAWING NO. GXB102	
				CHECKED BY E.M.									SHEET NO.	
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SPECIFICATIONS & GENERAL NOTES

- A. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW) SPECIFICATIONS AND STANDARDS AS SPECIFIED HEREIN.
- B. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DIVISIONS II & III), WITH ALL APPLICABLE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.
- C. DRAWINGS SHALL NOT BE SCALED. ANY DISCREPANCIES BETWEEN THE DRAWINGS SHALL BE REFERRED TO THE OWNER OR HIS REPRESENTATIVE FOR CLARIFICATION PRIOR TO UNDERTAKING THE WORK.
- D. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE AND FOR ENSURING THAT NO PORTION OF THE STRUCTURE IS OVERSTRESSED AS A RESULT OF CONSTRUCTION ACTIVITIES.

1. DESIGN SPECIFICATIONS:

- A. ALL DESIGNS UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE AERIAL GUIDEWAY DESIGN CRITERIA (VOLUME III OF THE MIAMI-DADE COUNTY TRANSIT'S RAPID TRANSIT SYSTEM EXTENSIONS COMPENDIUM OF DESIGN CRITERIA, INTERIM RELEASE REV 1, OCTOBER 30, 2008) WITH THE FOLLOWING USED AS REFERENCE CODES :

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (9TH EDITION 2020)

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES MANUAL, CURRENT EDITION AND ALL APPLICABLE STRUCTURES DESIGN BULLETINS

FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, CURRENT MANUAL AND ALL APPLICABLE SUBSEQUENT ROADWAY DESIGN BULLETINS.

FLORIDA DEPARTMENT OF TRANSPORTATION SOILS AND FOUNDATION HANDBOOK, CURRENT EDITION.

AUTOMATED PEOPLE MOVER STANDARDS, ASCE 21-05

AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE/SEI 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, CHAPTER 26 WIND LOADS.

- B. IN CASE OF CONFLICT BETWEEN THE CODES, THE MORE STRINGENT CRITERIA SHALL APPLY UNLESS SHOWN OTHERWISE.

2. DESIGN LOADS:

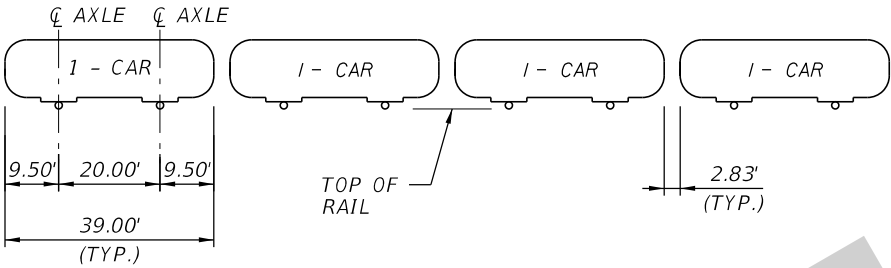
- A. DEAD LOADS (DC)
UNIT WEIGHT OF REINFORCED CONCRETE: 150 PCF
UNIT WEIGHT OF STEEL: 490 PCF
- B. SUPERIMPOSED DEAD LOADS (DW):
- WALKWAY/WIREWAY: 0.14 KLF (INCLUDES CABLES PER ONE TRACK GUIDEWAY)
- POWER AND SIGNAL CABLES: 0.015 KLF (PER ONE TRACK GUIDEWAY)
- LOWER CABLE TRAYS: 0.07 KLF (PER ONE TRACK GUIDEWAY)
- MISCELLANEOUS: 0.035 KLF (PER ONE TRACK GUIDEWAY)

FOR STEEL FRAMING (TWO TRACK GUIDEWAY):

- DIAPHRAGMS: • APM GUIDEWAY: 0.38 K/FT
 • MONORAIL GUIDEWAY: 0.12 K/FT
- BRACINGS: • APM GUIDEWAY: 0.04 K/FT
 • MONORAIL GUIDEWAY: 0.04 K/FT
- CONCRETE PADS FOR APM (PLINTH): 0.45 KLF (PER ONE TRACK GUIDEWAY AS REQUIRED)

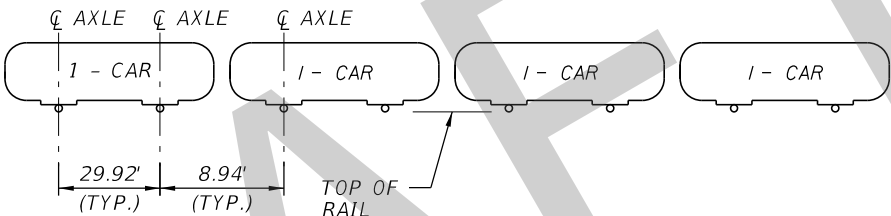
C. LIVE LOAD (LL):

DESIGN TRANSIT VEHICLES CONSIST OF FOUR CARS WITH A TOTAL OF 8 AXLES.
OPTION 1 - ASSUMED APM VEHICLE LOADING DIAGRAM:



LOADING	AXLE LOAD (KIPS)
EMPTY VEHICLE (AW0)	16.30 (2 AXLES/CAR)
MAXIMUM LOAD (AW2)	28.3 PER AXLE (8 AXLES)

OPTION 2 - ASSUMED MONORAIL VEHICLE LOADING DIAGRAM:



LOADING	AXLE LOAD (KIPS)
EMPTY VEHICLE (AW0)	16.50 (2 AXLES/CAR)
MAXIMUM LOAD (AW2)	23.95 PER AXLE (8 AXLES)

- VERTICAL IMPACT OF LIVE LOAD (IM):
- VERTICAL IMPACT OF TRANSIT VEHICLE LIVE LOAD SHALL BE TAKEN AS 20% OF THE LIVE LOAD.
- NO IMPACT ON PILE CAPS, PILES, OR DRILLED SHAFTS.

- PEDESTRIAN LIVE LOAD (PL):
- EMERGENCY EVACUATION AND MAINTENANCE WALKWAY SUPPORTING ELEMENT SHALL BE DESIGNED FOR A LIVE LOAD OF 100 PSF.
- FOR THE DESIGN OF THE GUIDEWAY STRUCTURE, THE PEDESTRIAN LIVE LOAD SHALL BE 85 PSF.

- D. WIND LOADS (W):
- THE DESIGN WIND VELOCITY SHALL BE 170 MPH.
- DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND AS MODIFIED BY STRUCTURES DESIGN GUIDELINES (SDG) SECTION 2.4.

- E. VEHICLE COLLISION FORCE:
- NEW PIER COLUMNS SHALL BE DESIGNED TO WITHSTAND THE 600 KIP VEHICULAR COLLISION FORCE PER AASHTO LRFD SPECIFICATIONS.

3. ENVIRONMENT:

- SUPERSTRUCTURE - EXTREMELY AGGRESSIVE
SUBSTRUCTURE - EXTREMELY AGGRESSIVE (RESISTIVITY: 110-180 OHM-CM)

4. CONCRETE:

CLASS	MINIMUM 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION
IV (DRILLED SHAFTS)	F'c = 4000	DRILLED SHAFTS
IV	F'c = 5500	CONCRETE PAD, FOOTING, COLUMNS, PIER CAPS, END BENTS

ALL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346 OF THE FDOT SPECIFICATIONS.

5. REINFORCED CONCRETE DESIGN:

- A. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
- B. ALL REINFORCING STEEL SHALL BE DEFORMED AND UNCOATED.
- C. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.
- D. REINFORCING STEEL DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.
- E. COVER ON REINFORCING STEEL AS FOLLOWS, UNLESS NOTED OTHERWISE:
SUPERSTRUCTURE 2 IN. INTERNAL AND EXTERNAL SURFACES
SUBSTRUCTURE 4-½ IN. EXTERNAL SURFACES CAST AGAINST EARTH AND SURFACES IN WATER
SUBSTRUCTURE 4 IN. EXTERNAL FORMED SURFACES, COLUMNS, AND TOPS OF FOOTING NOT IN CONTACT WITH WATER
SUBSTRUCTURE 6 IN. DRILLED SHAFTS
- F. CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER".

6. STRUCTURAL STEEL:

- A. ALL STRUCTURAL STEEL SHALL BE ASTM A709, GRADE 50 UNLESS NOTED OTHERWISE
- B. DIAPHRAGMS, WEB STIFFENERS, LATERAL BRACINGS, AND PLATES SHALL CONFORM TO ASTM A-36, GRADE 36 UNLESS NOTED OTHERWISE
- C. BOLTS CONNECTING STEEL MEMBERS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE
- D. STRUCTURAL STEEL FOR INTEGRAL PIER CAPS AND STRADDLE BENTS SHALL BE IN ACCORDANCE WITH ASTM A709, GRADE HPS 50W
- E. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH HIGH PERFORMANCE COATING SYSTEM IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTON 975. THE COLOR OF THE FINISHED COATING SHALL CONFORM TO FEDERAL STANDARD NO. 595B, COLOR NO. (TBD BY OWNER).

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No.

Date

App.

Revisions

Designed by
HDD 01/20

Drawn by
HDD 01/20

Checked by
STP 01/20

DRAWING SCALE:
N/A

MIAMI-DADE COUNTY

DTPW TRANSIT

PEOPLE'S TRANSPORTATION PLAN

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153

PARSONS

7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE No. 54072

APPROVED

DATE

APPROVED

DATE

DRAWING TITLE:
BEACH CORRIDOR GUIDEWAY
GENERAL NOTES
(1 OF 2)

DRAWING NO.
W-001

SHEET NO.

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SPECIFICATIONS & GENERAL NOTES (CONTINUATION)

7. DIMENSIONS:

- A. ALL PLAN DIMENSIONS ARE MEASURED IN LEVEL PLANE
- B. ALL VERTICAL DIMENSIONS ARE MEASURED IN PLUMB PLANE
- C. ALL VERTICAL CONTROLS AND ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988.

8. CONCRETE DETAILS:

- A. ALL EMBEDDED ITEMS AND BLOCKOUTS REQUIRED FOR CIVIL, ELECTRICAL AND MECHANICAL SERVICES SHALL BE INCORPORATED INTO THE STRUCTURE WHETHER OR NOT THEY ARE DETAILED OR INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR EMBEDDED ITEMS AND BLOCKOUTS.
- B. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" x 3/4" UNLESS OTHERWISE NOTED.

9. CONSTRUCTION NOTES:

- A. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING ANY WORK. ANY VARIATIONS IN ACTUAL FIELD CONDITIONS / DIMENSIONS FROM THOSE SHOWN ON THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP OR WORKING DRAWINGS FOR APPROVAL.
- B. REFER TO CONSTRUCTION STAGING PLANS, SHEET NOS. 376 THRU 388 FOR DETAILS AND NOTES.

10. UTILITIES:

- A. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED COMPANIES AND HAVE LOCATIONS OF ALL UTILITIES VERIFIED PRIOR TO EXCAVATION, DRILLING, OR CONSTRUCTION AND SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS MAY BE NECESSARY TO AVOID DAMAGE DURING ANY REQUIRED RELOCATION BY EITHER PARTY. CONTRACTOR SHALL ASSURE THAT ANY ACTIVE UTILITIES WITHIN THE PROJECT LIMITS ARE PROPERLY MAINTAINED DURING CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE UTILITY PLANS.
- B. THE EXISTING 36" WATER MAIN AT THE BEGINNING OF THE GUIDEWAY AT WEST BRIDGE WILL BE RELOCATED BY OTHERS PRIOR TO START OF CONSTRUCTION OF TRANSIT BRIDGE AND ABANDONEED IN PLACE.
- C. THE CONTRACTOR SHALL ENSURE THAT ANY EXISTING UTILITIES ARE NOT ENDANGERED OR DISTURBED DURING BARGE SPUDS OPERATION.

11. TEMPORARY WORKS:

DESIGN AND PROVIDE TEMPORARY WORKS REQUIRED FOR THE CONSTRUCTION OF THE GUIDEWAY STRUCTURE. THE DESIGN SHALL BE DONE IN ACCORDANCE WITH THE AASHTO GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORK, 1995.

12. PRESTRESSING AND POST TENSIONING:

PRETENSIONING STRANDS SHALL MEET THE REQUIREMENTS OF ASTM A416, 0.6" DIAMETER 7-WIRE, LOW-RELAXATION, GRADE 270.

13. POST TENSIONED CONCRETE BEAM VALUES:

- A. ALLOWABLE STRESSES BEFORE LOSSES :
 - TENSILE STRESS (WITHOUT BONDED REINFORCEMENT) = 0.0948√F'ci (MAX 0.2 KSI)
 - TENSILE STRESS (WITH BONDED REINFORCEMENT) = 0.24√F'ci
 - COMPRESSIVE STRESS BEFORE LOSSES = 0.65 F'ci
- B. ALLOWABLE STRESSES AFTER LOSSES :
 - COMPRESSIVE STRESS OF EFFECTIVE PRESTRESS AND PERMANENT LOADS = 0.45 F'c
 - COMPRESSIVE STRESS OF EFFECTIVE PRESTRESS, PERMANENT LOADS, AND TRANSIENT LOAD = 0.6 F'c
 - TENSILE STRESS (CORROSIVE) = 0.0948√F'ci (MAX 0.3 KSI)
- C. LOSSES :
 - FRICTION LOSS = 0.25
 - WOBBLE LOSS = 0.0002
 - ANCHOR SET LOSS = 0.25

14. SCOUR:

100 YEAR STORM EVENT SCOUR SHALL BE CONSIDERED IN THE DESIGN AND SCOUR ELEVATIONS SHALL BE SHOWN IN THE DRILLED SHAFT INSTALLATION TABLES. THE DRILLED SHAFTS MAY BE INSTALLED TO TIP ELEVATIONS ABOVE THE MINIMUM TIP ELEVATION AS SHOWN IN THE INSTALLATION TABLES, AS DETERMINED BY THE LOAD TEST PROGRAM. MINIMUM TIP ELEVATION REVISION MUST CONSIDER LATERAL STABILITY REQUIREMENTS.

15. VESSEL COLLISION WITH SCOUR:

- A. WEST BRIDGE: USDOT - DADE COUNTY PAST POINT 14 DATA
 - 510 FT DISTANCE FROM CENTERLINE OF CHANNEL: VESSEL COLLISION LOAD 1300 KIPS
 - 365 FT DISTANCE FROM CENTERLINE OF CHANNEL: VESSEL COLLISION LOAD 1550 KIPS
 - 220 FT DISTANCE FROM CENTERLINE OF CHANNEL: VESSEL COLLISION LOAD 1850 KIPS
 - CHANNEL PIERS: VESSEL COLLISION LOAD 2100 KIPS
 - CASE I - VESSEL COLLISION LOAD WITH 1/2 LONG TERM SCOUR
 - CASE II - MINIMUM VESSEL COLLISION LOAD OF 69 KIPS (200-TON EMPTY BARGE) WITH 1/2 100-YEAR SCOUR
- B. EAST BRIDGE: USDOT - NO PAST POINT DATA
 - NAVIGABLE WATERWAY WITH 2 FT PLUS WATER DEPTH
 - MINIMUM VESSEL COLLISION LOAD OF 69 KIPS (200-TON EMPTY BARGE) WITH 1/2 100-YEAR SCOUR
- C. CAUSEWAY BRIDGE: NOT APPLICABLE AS THE ELEVATED GUIDEWAY IS WITHIN THE RIPRAP EDGE APPROXIMATELY 100FT OUTSIDE OF THE MIAMI HARBOR NAVIGATION CHANNEL. FOR ADDITIONAL INFORMATION, REFER TO THE BEACH CORRIDOR RAPID TRANSIT PROJECT - NAVIGATION IMPACT REPORT BY BERMELLO AJAMIL & PARTNERS, JANUARY 2020.

16. U.S. COAST GUARD (USCG) CONSTRUCTION NOTES:

- A. NAVIGATION CONSIDERATIONS/NAVIGABLE WATERWAY:
 - AT NO TIME DURING CONSTRUCTION WILL THE WATERWAY BE CLOSED OR RESTRICTED TO NAVIGATION WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM U.S. COAST GUARD. ALL CONSTRUCTION EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH U.S. COAST GUARD "NAVIGATION RULES" AND BE WELL REMOVED FROM THE NAVIGATIONAL CHANNEL WHEN NOT ENGAGED IN CONSTRUCTION ACTIVITIES. THE PLACEMENT OF BARGES AND/OR FLOATING EQUIPMENT IN THE NAVIGATIONAL CHANNEL AND ANY CHANNEL RESTRICTIONS AND/OR CLOSURES WILL REQUIRE PRIOR APPROVAL FROM THE U.S. COAST GUARD, PROVIDE AT LEAST 60 DAYS' NOTICE TO THE FOLLOWING CONTACTS:
 - COAST GUARD DISTRICT SEVEN BRIDGE ADMINISTRATION BRANCH:
 - MS. JENNIFER ZERCHER, (305)415-6740, JENNIFER.N.ZERCHER@USCG.MIL
 - MR. EDDIE LAWRENCE, (305)415-6946, EDDIE.H.LAWRENCE@USCG.MIL
 - COAST GUARD SECTOR MIAMI WATERWAYS MANAGEMENT DIVISION:
 - LT SAMUEL RODRIGUEZ-GONZALEZ, (305)535-4307, SAMUEL.RODRIGUEZ-GONZALEZ@USCG.MIL
 - MR. OMAR BECEIRO, (305)535-4317, OMAR.BECEIRO@USCG.MIL
- B. MAINTAINANCE OF NAVIGABLE CHANNEL TRAFFIC AND WATERWAY WITHIN PROJECT LIMITS:
 - ANY CHANNEL RESTRICTION (HORIZONTAL OR VERTICAL) SHALL BE APPROVED BY THE U.S. COAST GUARD.
 - SUBMIT TO THE ENGINEER A PLAN AND SCHEDULE THAT WILL PROVIDE THE LEAST INTERRUPTION TO THE NORMAL OPERATION OF TRAFFIC. THIS MAINTAINANCE OF CHANNEL TRAFFIC SHALL BE PRESENTED TO AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING OF ANY WORK. ALSO SEND APPROVAL PLAN TO COAST GUARD.
 - NOTIFY USCG DISTRICT SEVEN AND USCG SECTOR MIAMI WATERWAYS MANAGEMENT DIVISION AT LEAST 60 DAYS PRIOR TO THE START OF PROJECT AND AT LEAST 30 DAYS PRIOR TO ANY ANTICIPATED CHANNEL RESTRICTION. ALL REQUESTS ARE TO BE REVIEWED WITH THE ENGINEER PRIOR TO COAST GUARD SUBMITTAL. (SEE USCG CONTACT INFORMATION ABOVE IN SECTION A)
 - MAINTAIN NAVIGATION LIGHTING DURING CONSTRUCTION.
 - PERFORM WORK ON ONE SIDE OF CHANNEL AT A TIME.
 - MAINTAIN HAZARD LIGHTING ON ALL WATER ZONE CONSTRUCTION EQUIPMENT WITHIN THE PROJECT LIMITS.
 - ALL VESSELS IN THE WATER SHALL BE MARKED IN ACCORDANCE WITH USCG RULES.

17. BRIDGE FENDER:

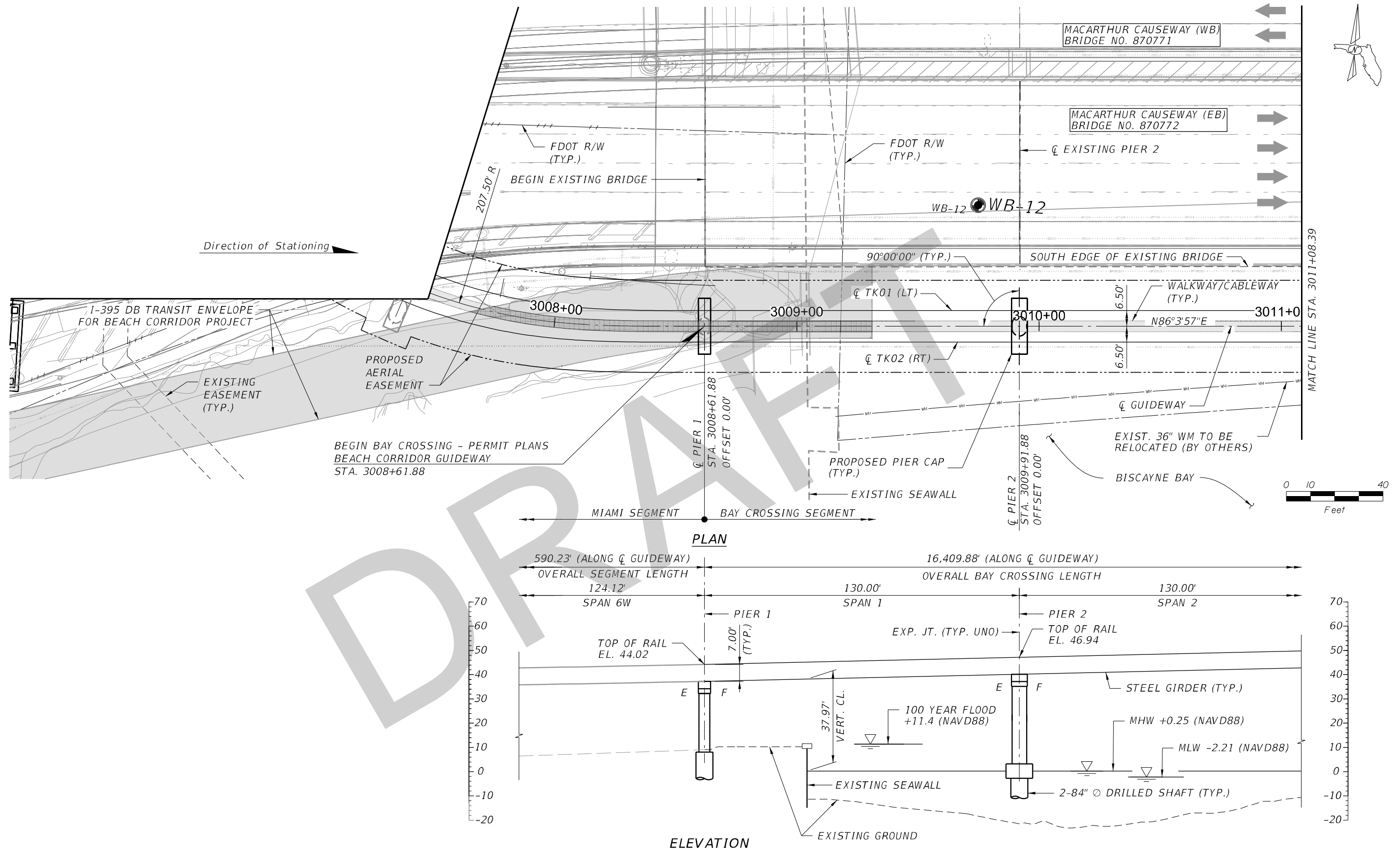
- A. MATERIAL AND INSTALLATION OF THE NEW FENDER SHALL BE IN ACCORDANCE WITH 2019 FDOT SPECIFICATIONS SECTION 471.
- B. PROVIDE FIBER REINFORCED POLYMER (FRP) COMPOSITE MATERIAL FOR ALL MEMBERS (WALES, PILES, SPACER BLOCKS, AND CATWALK COMPONENTS) IN ACCORDANCE WITH 2019 FDOT SPECIFICATIONS SECTION 973.
- C. U.S. COAST GUARD NOTIFICATION: NOTIFY THE LOCAL OFFICE OF THE U.S. COAST GUARD AT LEAST 30 DAYS PRIOR TO BEGINNING OF CONSTRUCTION OF THE FENDER SYSTEM.

NOTES TO REVIEWER:

- THE BEACH CORRIDOR GUIDEWAY STRUCTURES PLANS HEREIN ARE PRELIMINARY CONCEPTUAL LEVEL PLANS DEVELOPED TO OBTAIN PERMITS FROM THE FOLLOWING AGENCIES:
 - U.S. COAST GUARD (USCG)
 - SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)
 - U.S. ARMY CORPS OF ENGINEERS (USACE)
 - MIAMI-DADE COUNTY ENVIRONMENTAL RESOURCES MANAGEMENT (DERM)
- THE PROPOSED STEEL SUPERSTRUCTURE SPANS OF TYPICAL 145FT AT THE WEST BRIDGE AND 130FT AT THE EAST BRIDGE ARE TO MATCH THOSE OF ADJACENT EXISTING MACARTHUR CAUSEWAY BRIDGE AS DIRECTED BY THE U.S. COAST GUARD. FOR THESE SPAN ARRANGEMENTS, STEEL PLATE GIRDERS ARE PROPOSED TO SUPPORT THE APM TRANSIT VEHICLE AND STEEL BOX GIRDERS ARE PROPOSED TO SUPPORT THE ALTERNATE MONORAIL TRANSIT VEHICLE.
- TO MITIGATE AGAINST THE RISK OF EXCESSIVE VIBRATION AND SETTLEMENT CONCERNS TO THE PORT OF MIAMI TUNNELS (POMT) DURING DRILLED SHAFT CASING INSTALLATION AND EXTRACTION; AUGER CAST-IN-PLACE PILE (ACIP) FOUNDATIONS ARE PROPOSED FOR PIERS 33 THRU 35. THESE CONCEPT LEVEL SPAN ARRANGEMENTS, FOUNDATION TYPES, AND CLEARANCES TO THE TUNNELS ARE PENDING THE PORT AUTHORITY'S APPROVAL. REFER TO FOUNDATION LAYOUT SHEET 8 OF 22 FOR PLAN VIEW.

				Designed by HDD 01/20	<div><div><div>MIAMI-DADE COUNTY</div><div></div></div><div>DTPW TRANSIT</div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY GENERAL NOTES (2 OF 2)</div> <div>DRAWING NO. W-002SHEET NO.</div>	
				Drawn by HDD 01/20		<div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div>					
				Checked by STP 01/20							
				DRAWING SCALE: N/A		APPROVED	DATE	APPROVED	DATE		
No.	Date	App.	Revisions								

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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by <i>RLH 08/20</i>	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	<i>BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153</i>					DRAWING TITLE: <i>BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (1 OF 30)</i>			
				Drawn by <i>PCU 08/20</i>		 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7113 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>						DRAWING NO. <i>W-003</i>	SHEET NO.	
				Checked by <i>STP 08/20</i>										
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No.	Date	App.	Revisions				APPROVED		DATE	APPROVED		DATE		

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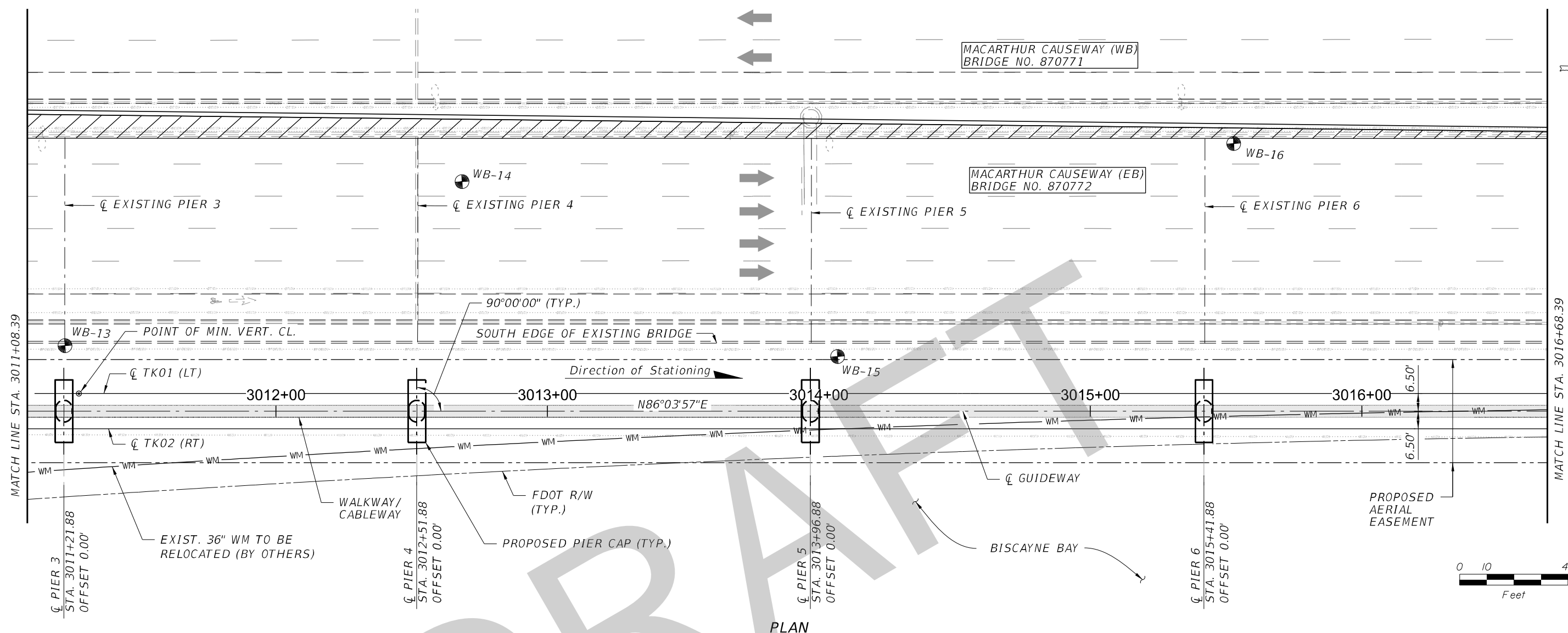
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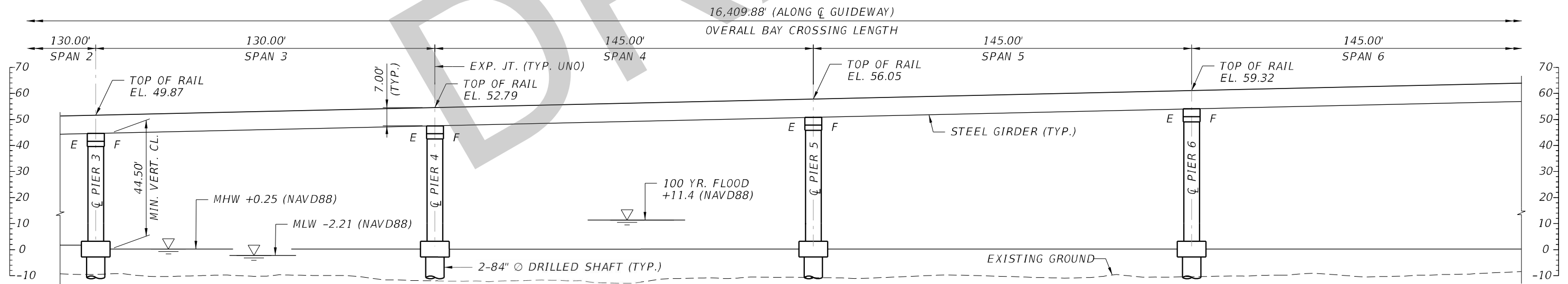
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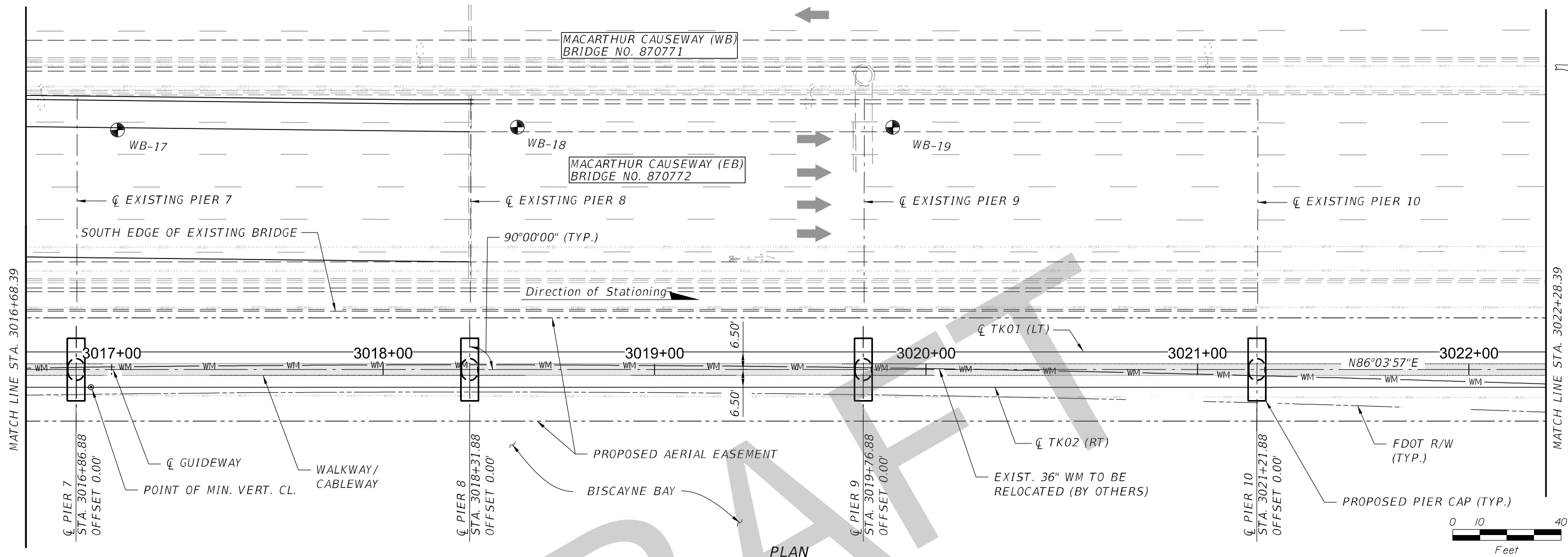
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

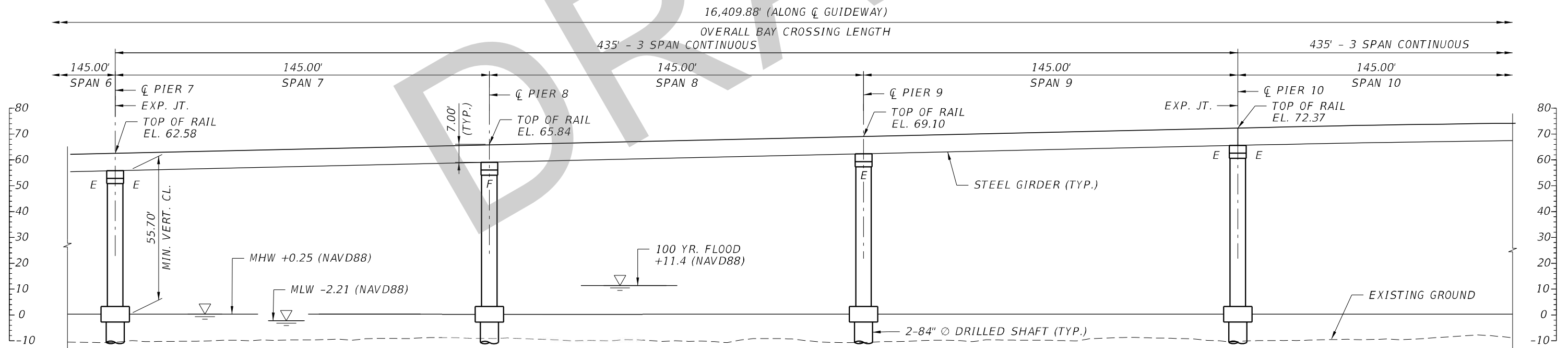
				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (2 OF 30)</div> <div>DRAWING NO. W-004SHEET NO.</div>
				Drawn by PCU 12/19		 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>				
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				DRAWING SCALE: AS SHOWN						
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	

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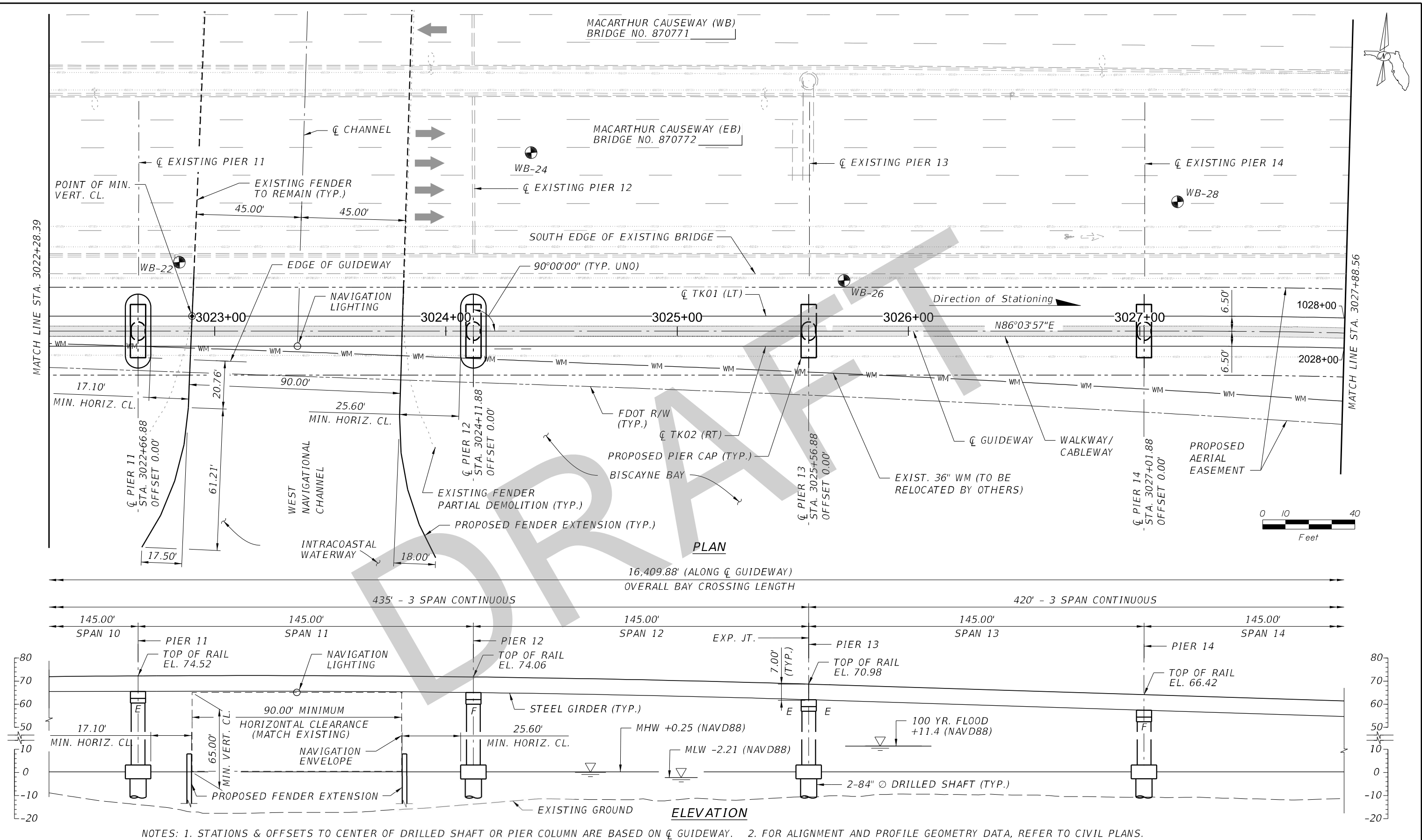
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON \varnothing GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

<div>Designed by JSV 12/19</div> <div>Drawn by PCU 12/19</div> <div>Checked by STP 01/20</div> <div>DRAWING SCALE: AS SHOWN</div>			<div>MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN</div>	<div>BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153</div> <div>PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>		<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (3 OF 30)</div> <div>DRAWING NO. W-005</div> <div>SHEET NO.</div>																												
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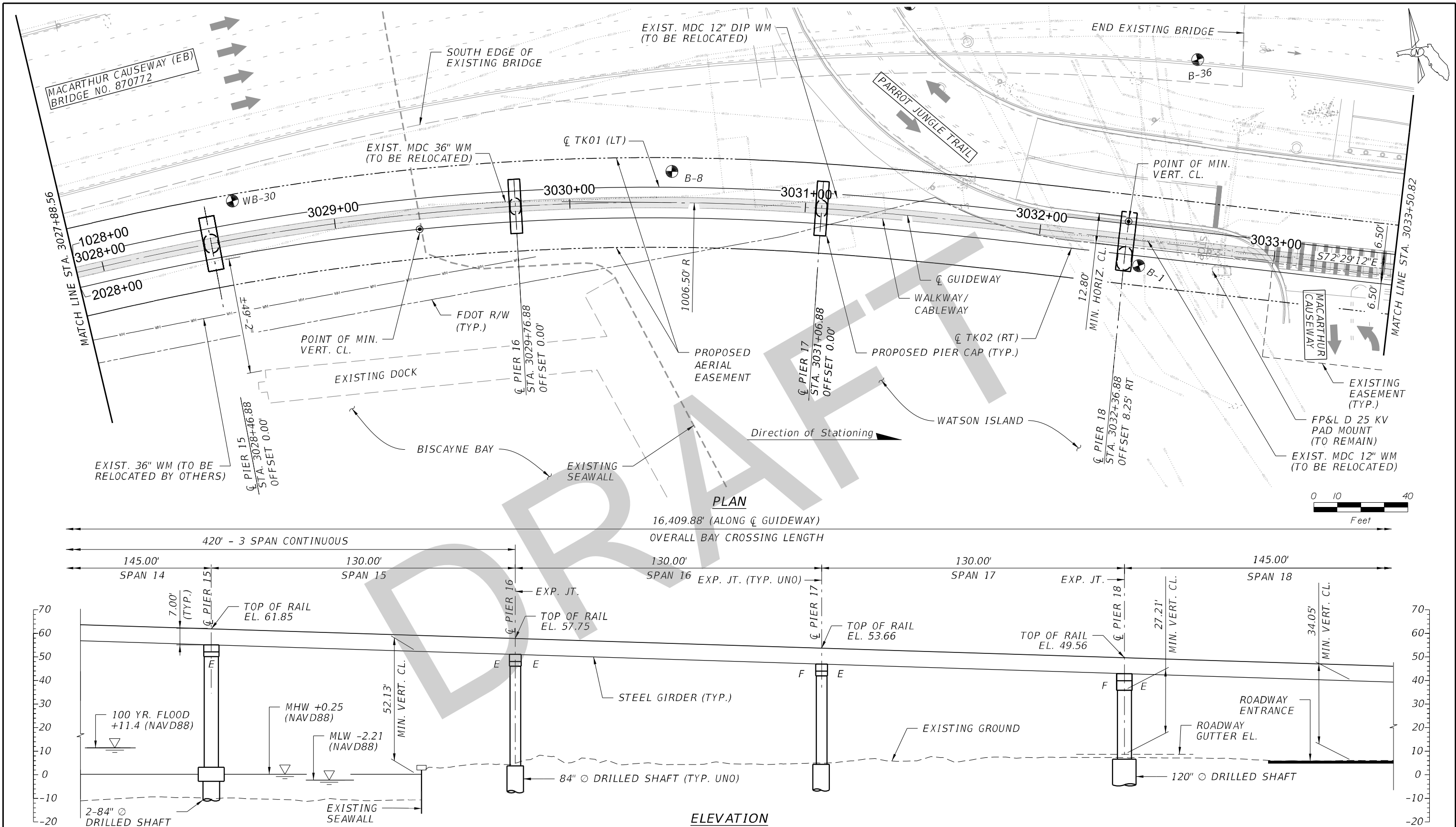
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Designed by JSV 12/19				DTPW TRANSIT				DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (4 OF 30)			
Drawn by PCU 12/19				MIAMI-DADE COUNTY				DRAWING NO. W-006			
Checked by STP 01/20				PEOPLE'S TRANSPORTATION PLAN				SHEET NO.			
DRAWING SCALE: AS SHOWN				BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				APPROVED			
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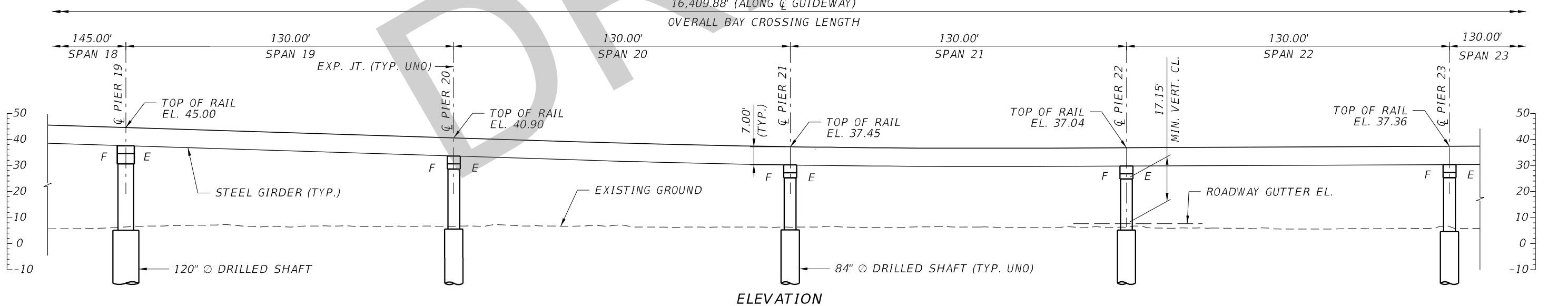
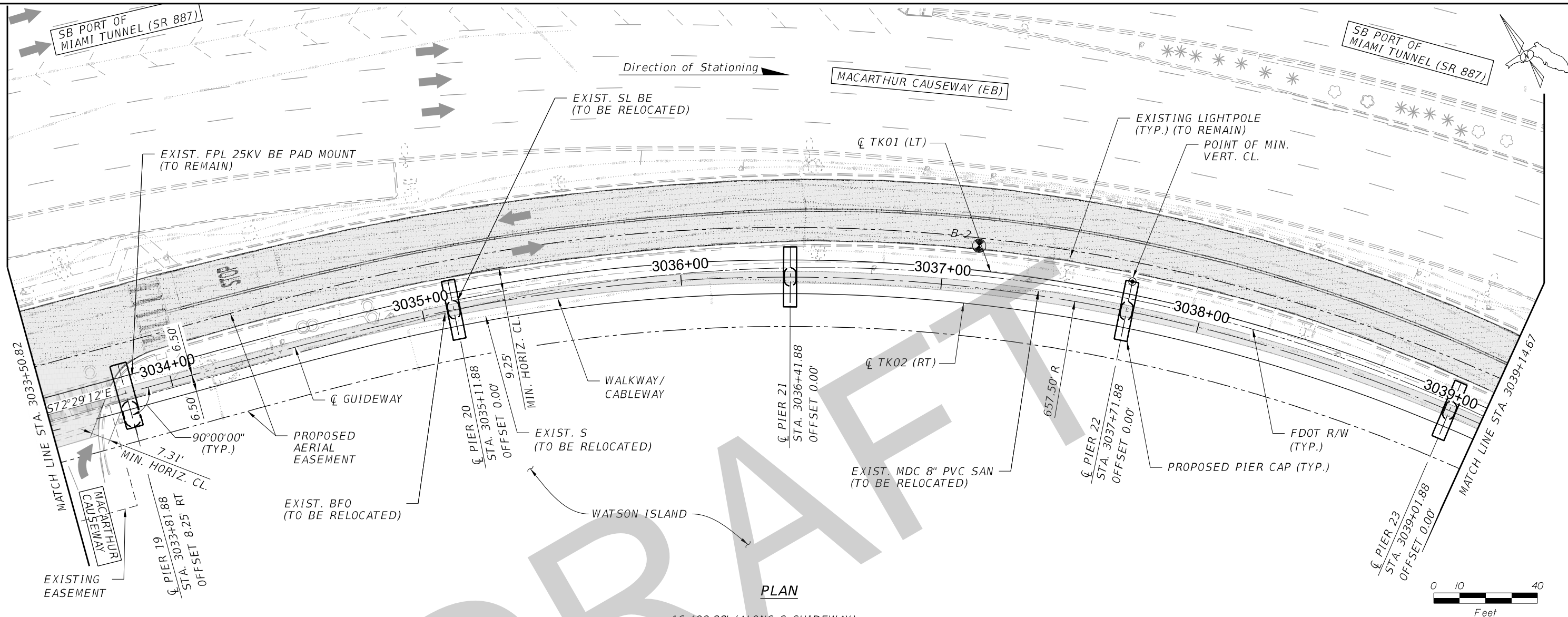
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153					DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (5 OF 30)		
				Drawn by PCU 08/20		 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072							
				Checked by STP 08/20									
				DRAWING SCALE: AS SHOWN									
No.	Date	App.	Revisions				APPROVED	DATE	APPROVED	DATE		DRAWING NO. W-007	SHEET NO.

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No.	Date	App.	Revisions

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Drawn by PCU 12/19
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MIAMI-DADE
COUNTY

PEOPLE'S TRANSPORTATION PLAN

DTPW
TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153

PARSONS

7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE NO. 54072

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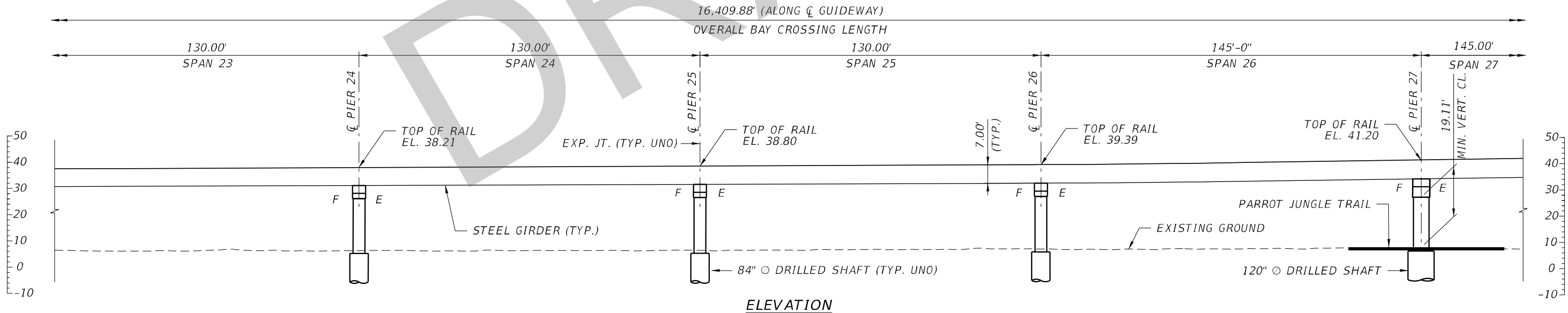
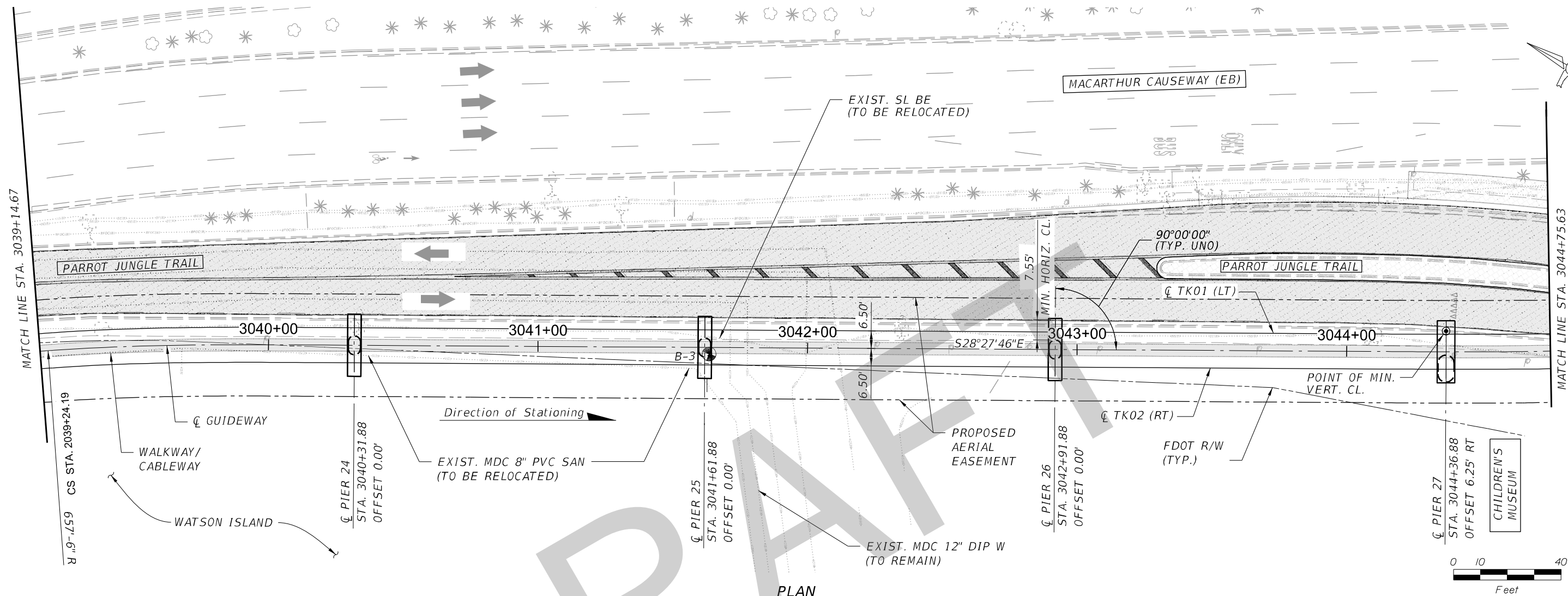
DRAWING TITLE:
BEACH CORRIDOR GUIDEWAY
PLAN AND ELEVATION
(6 OF 30)

DRAWING NO.
W-008

SHEET NO.

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				Designed by JSV 12/19	 MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN	DTPW TRANSIT	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153					DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (7 OF 30)		
				Drawn by PCU 12/19			 PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE NO. 54072							
				Checked by STP 01/20										
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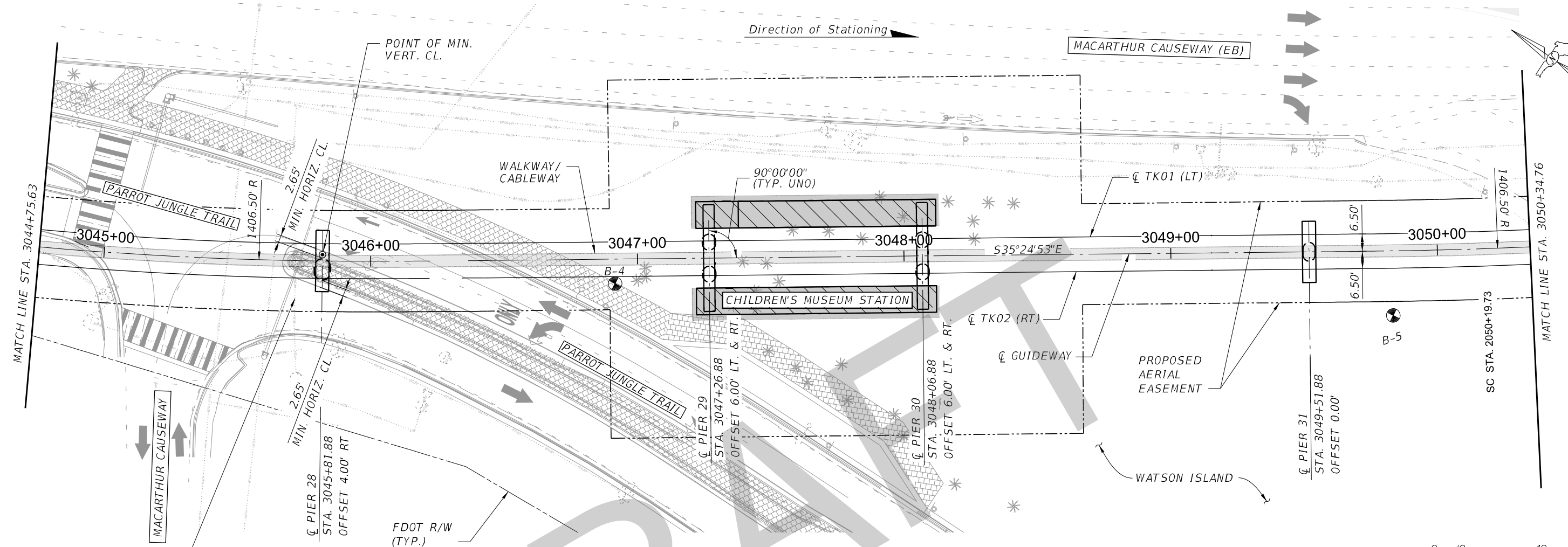
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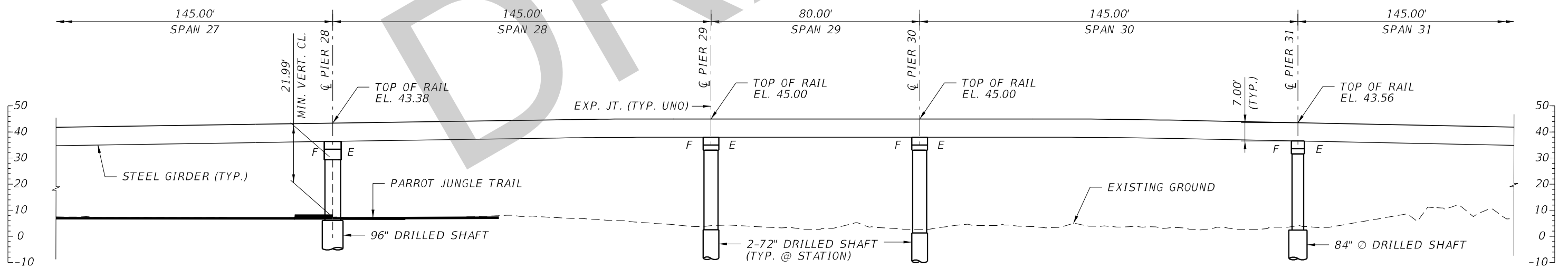
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PLAN

16,409.88' (ALONG ϕ GUIDEWAY)
OVERALL BAY CROSSING LENGTH



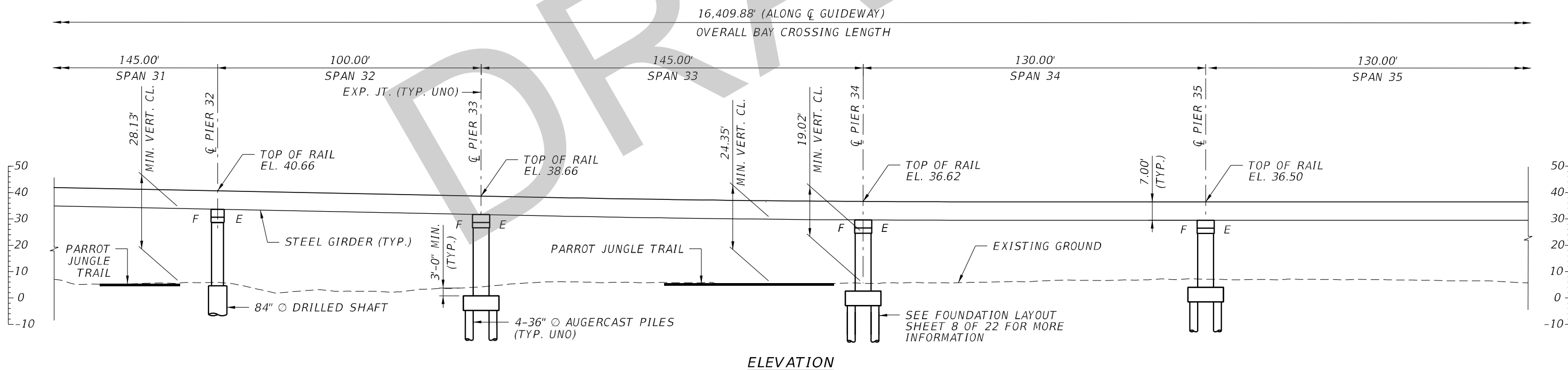
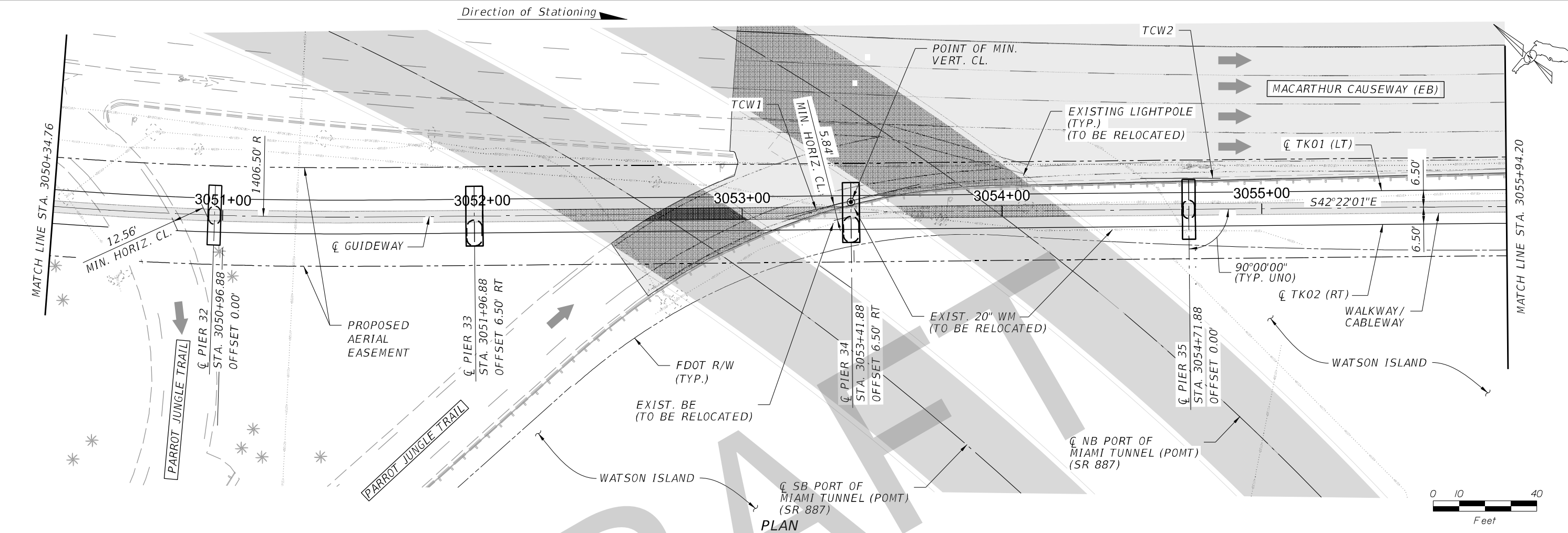
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	<div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (8 OF 30)</div> <div>DRAWING NO. W-010 SHEET NO.</div>
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				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>		DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (9 OF 30)	
				Drawn by PCU 12/19									
				Checked by STP 01/20									
				DRAWING SCALE: AS SHOWN								DRAWING NO. SHEET NO.	
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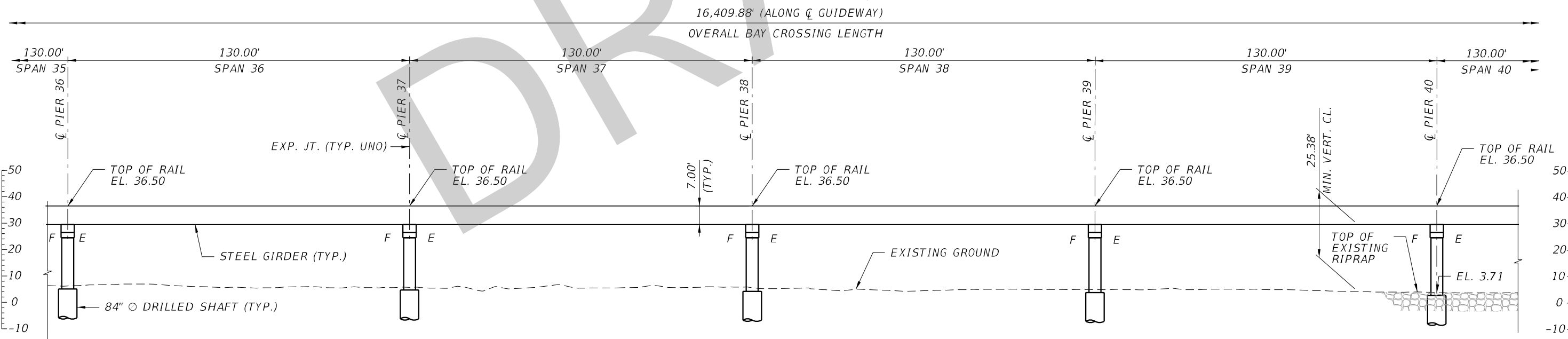
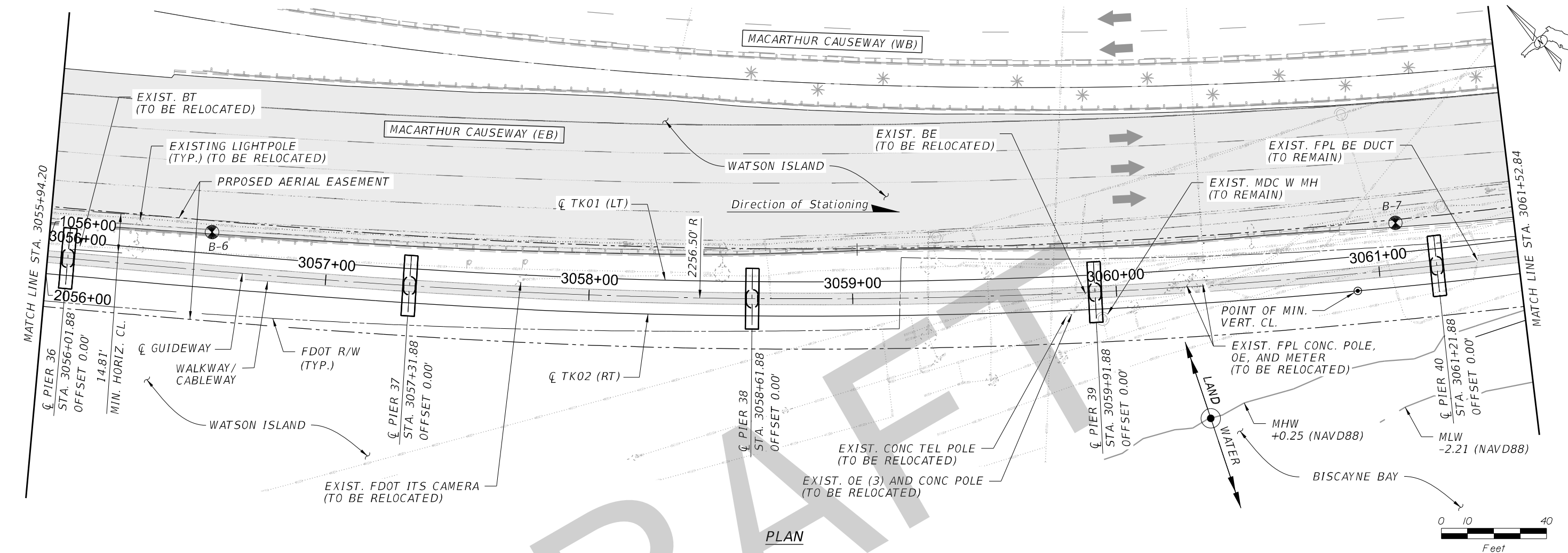
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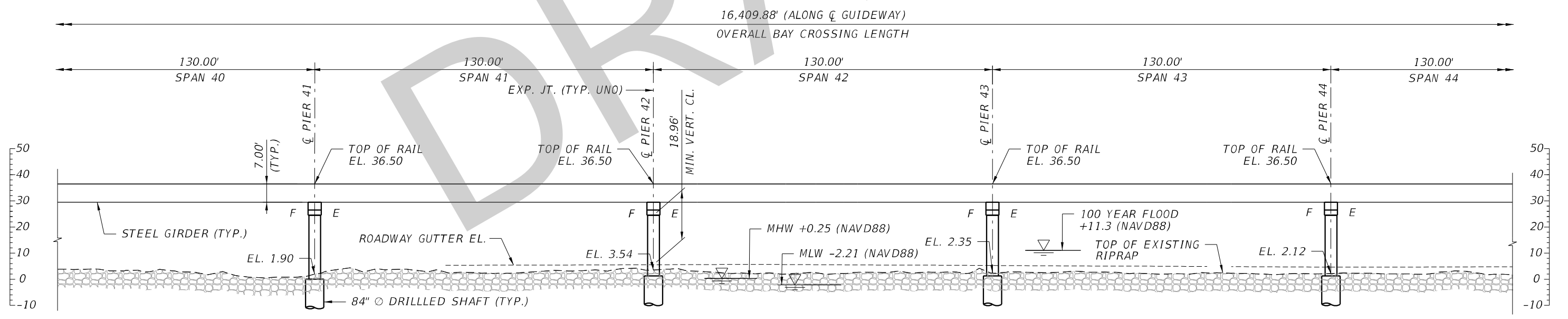
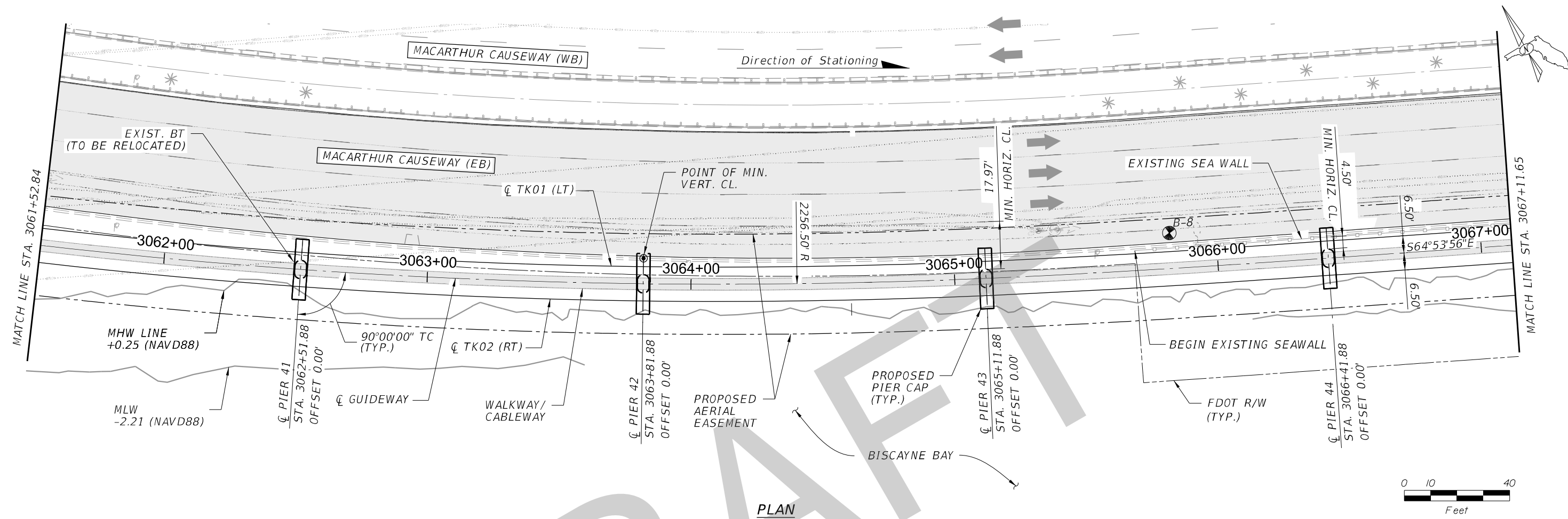


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				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN		BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (10 OF 30)			
				Drawn by PCU 12/19			 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072							
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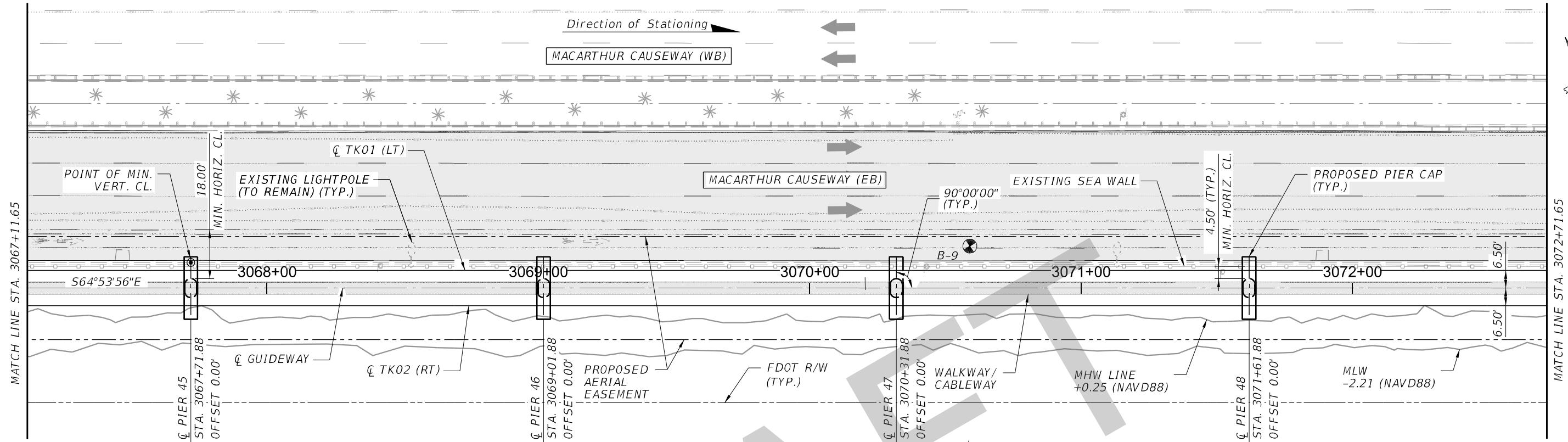


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				Designed by JSV 12/19	<div><div><div><div></div><div>MIAMI-DADE</div><div>COUNTY</div></div><div>DTPW TRANSIT</div></div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (11 OF 30)</div> <div>DRAWING NO. SHEET NO. W-013</div>
				Drawn by PCU 12/19		<div><div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION No. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div></div>				
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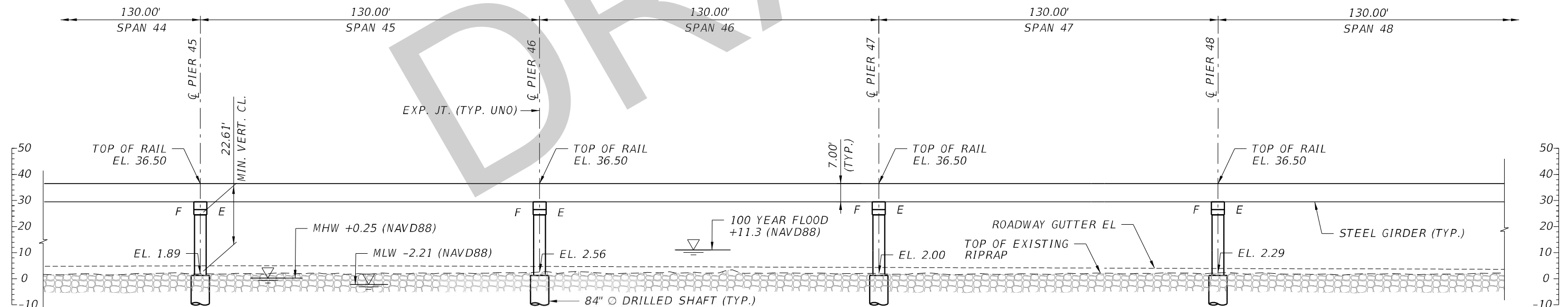
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PLAN

16,409.88' (ALONG \varnothing GUIDEWAY)
OVERALL BAY CROSSING LENGTH



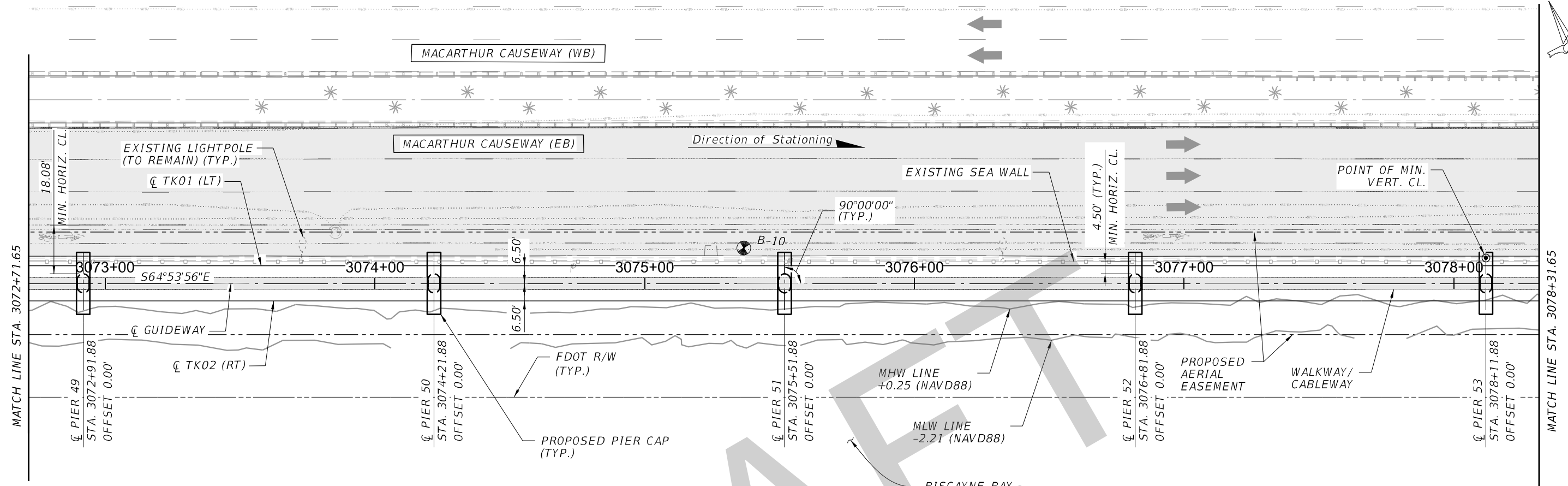
ELEVATION

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				Designed by JSV 12/19	<div><div><div>MIAMI-DADE COUNTY</div><div></div></div><div>DTPW TRANSIT</div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div><div>PARSONS</div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN , P.E. P.E. LICENSE No. 54072</div></div>		DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (12 OF 30)	
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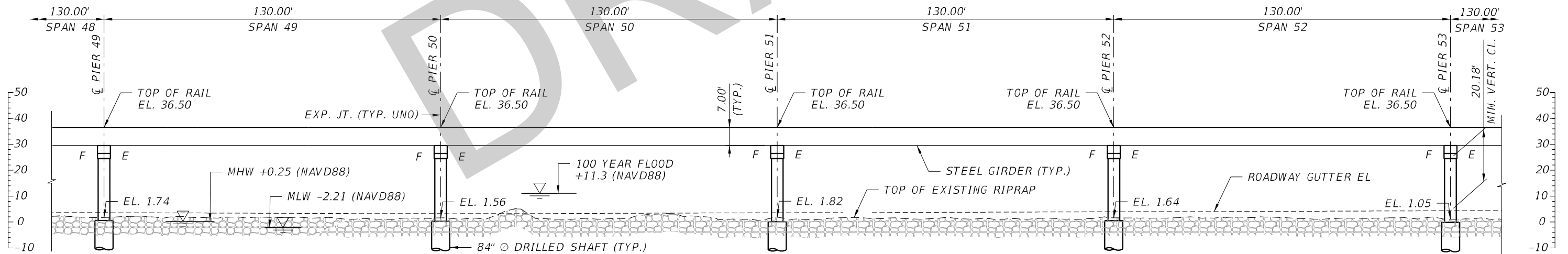
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PLAN

16,409.88' (ALONG CL GUIDEWAY)
OVERALL BAY CROSSING LENGTH



ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	<div><div>DTPW TRANSIT</div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: <div>BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (13 OF 30)</div>	
				Drawn by PCU 12/19		<div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div>					
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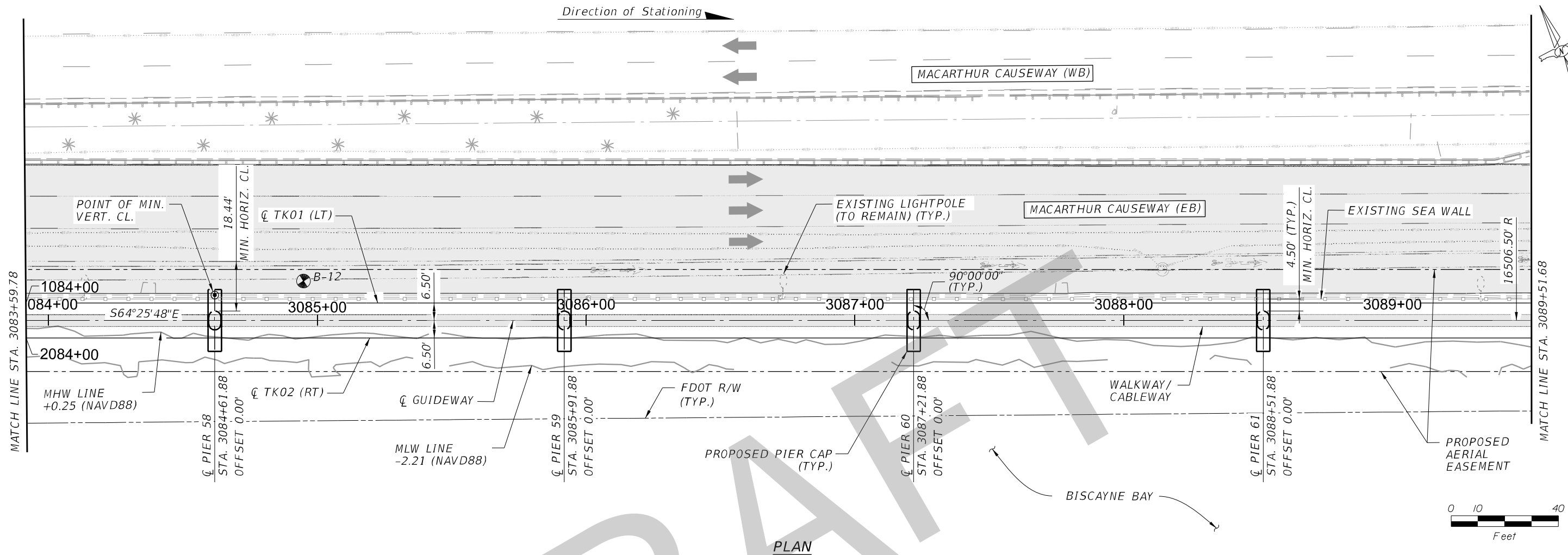
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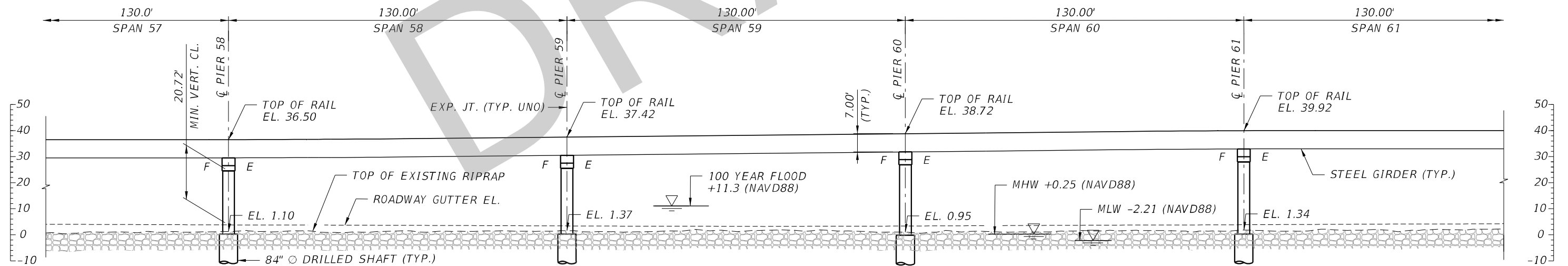
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PLAN

16,409.88' (ALONG CL GUIDEWAY)
OVERALL BAY CROSSING LENGTH



ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (15 OF 30)</div>			
				Drawn by PCU 12/19		 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>							
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No.	Date	App.	Revisions					APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-017	SHEET NO.

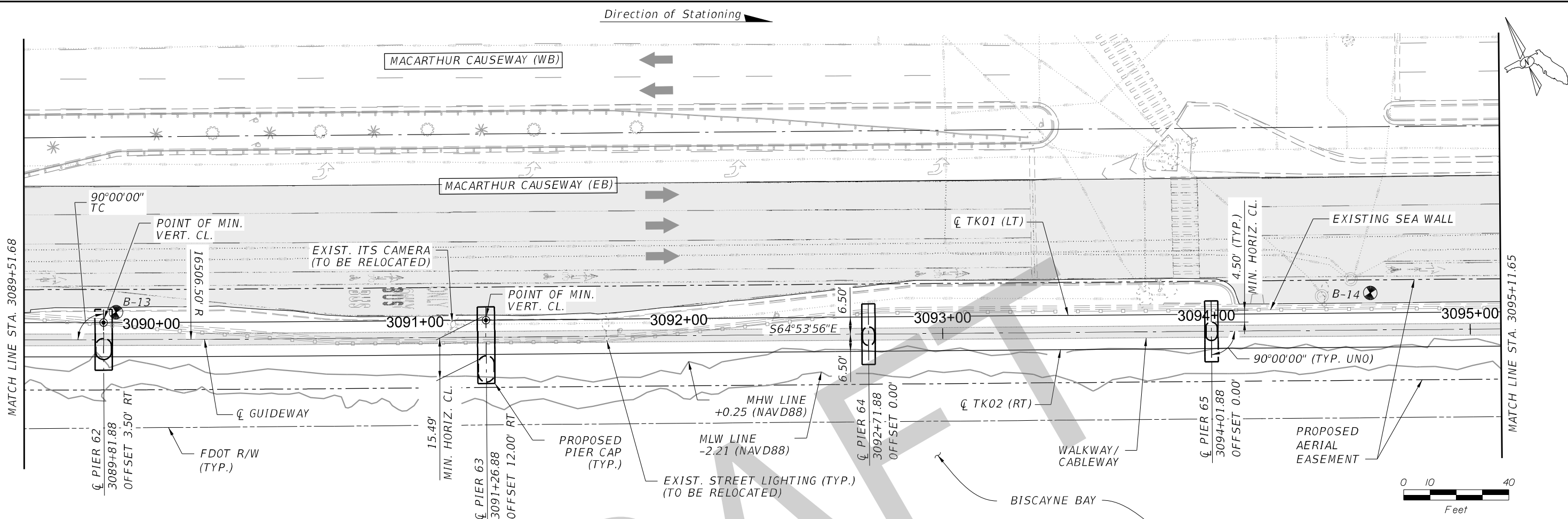
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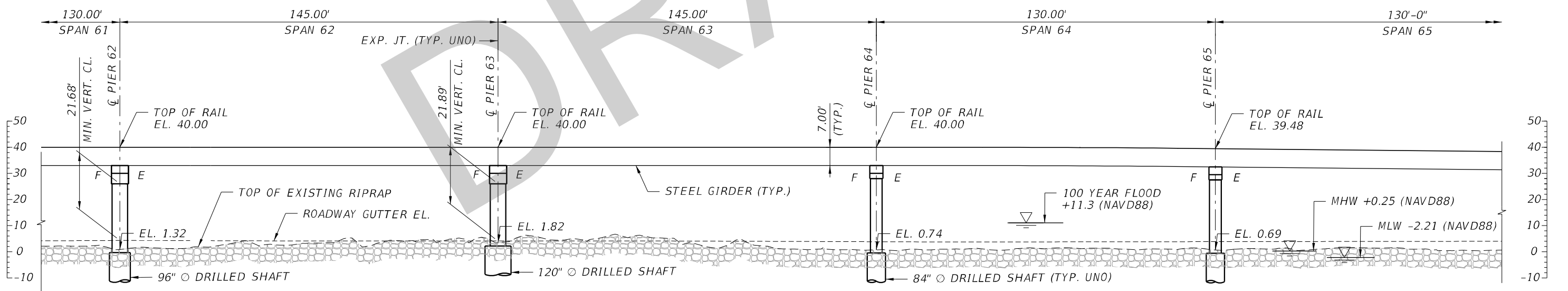
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PLAN

16,409.88' (ALONG \bar{C} GUIDEWAY)
OVERALL BAY CROSSING LENGTH



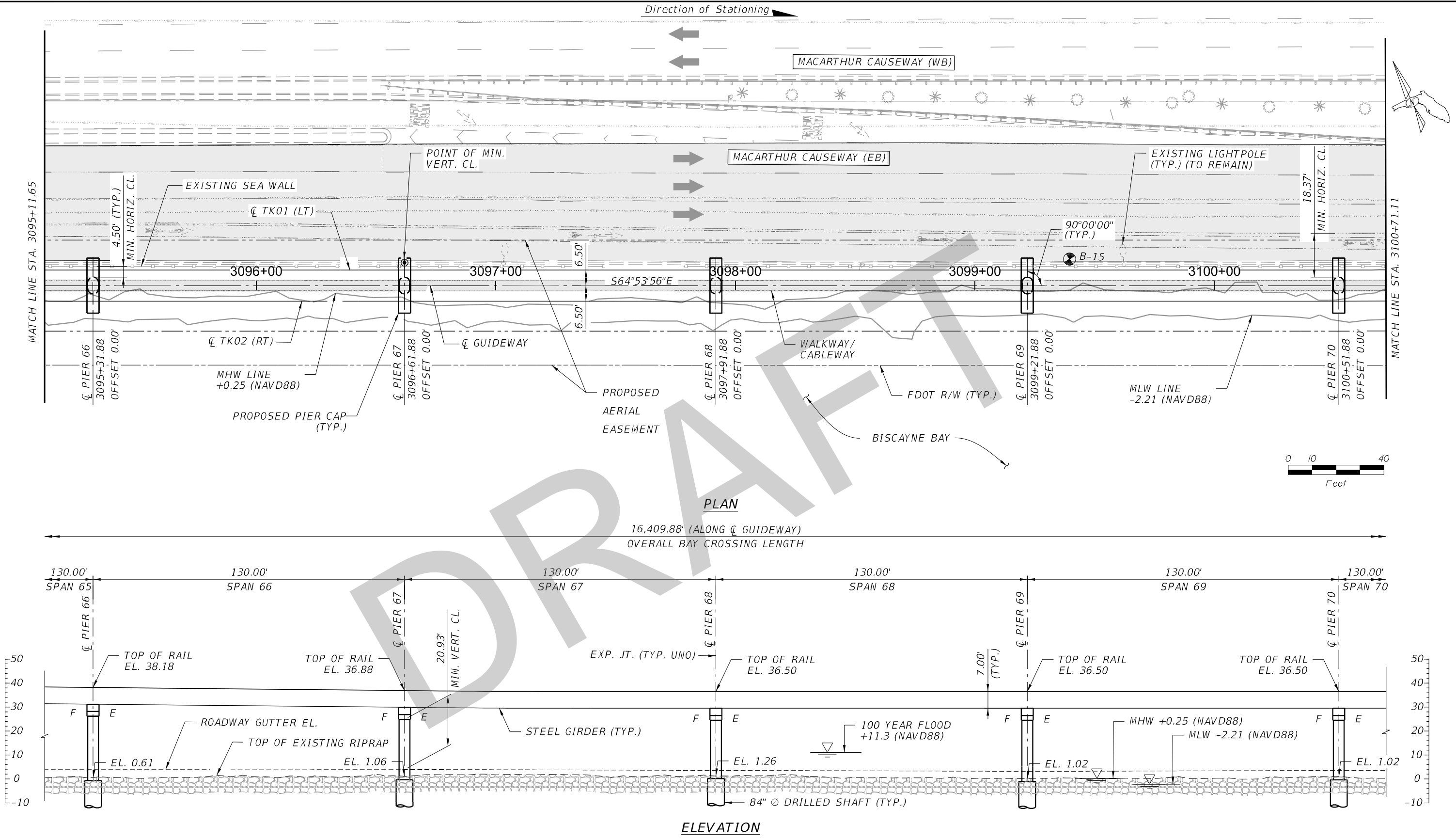
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON \bar{C} GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 DTPW TRANSIT PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION No. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072			DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (16 OF 30)	
				Drawn by PCU 12/19										
				Checked by STP 01/20										
				DRAWING SCALE: AS SHOWN									DRAWING NO. W-018	
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	SHEET NO.				

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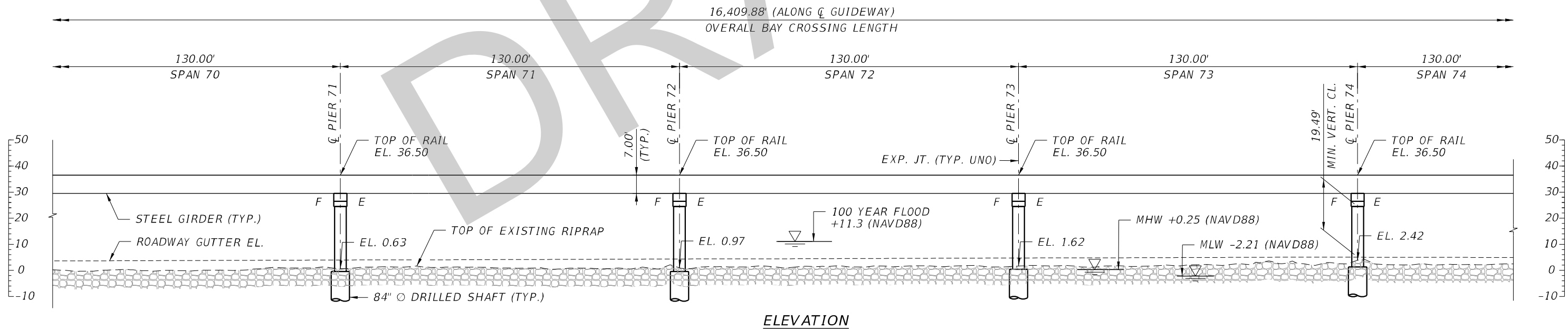
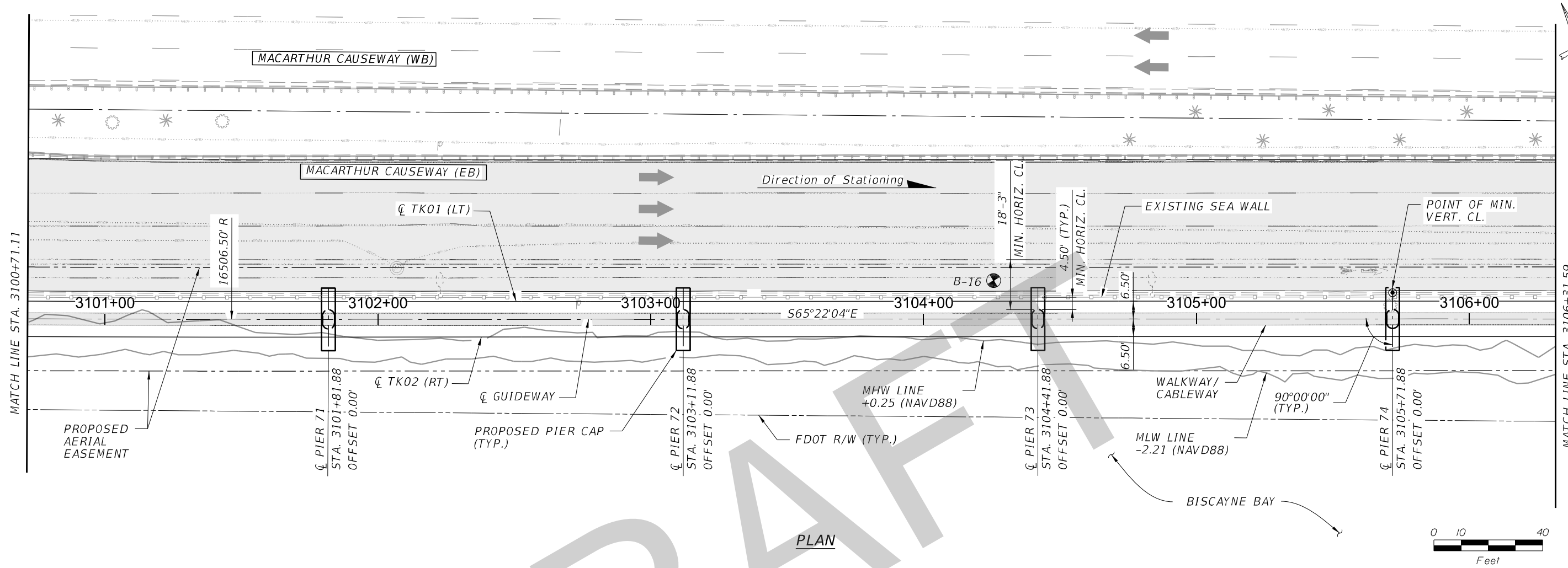


NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	<div><div><div>MIAMI-DADE COUNTY</div><div></div></div><div>DTPW TRANSIT</div></div> <div>PEOPLE'S TRANSPORTATION PLAN</div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (17 OF 30)			
				Drawn by PCU 12/19		<div><div><div>PARSONS</div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div></div>							
				Checked by STP 01/20									
				DRAWING SCALE: AS SHOWN									
No.	Date	App.	Revisions					APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-019	SHEET NO.

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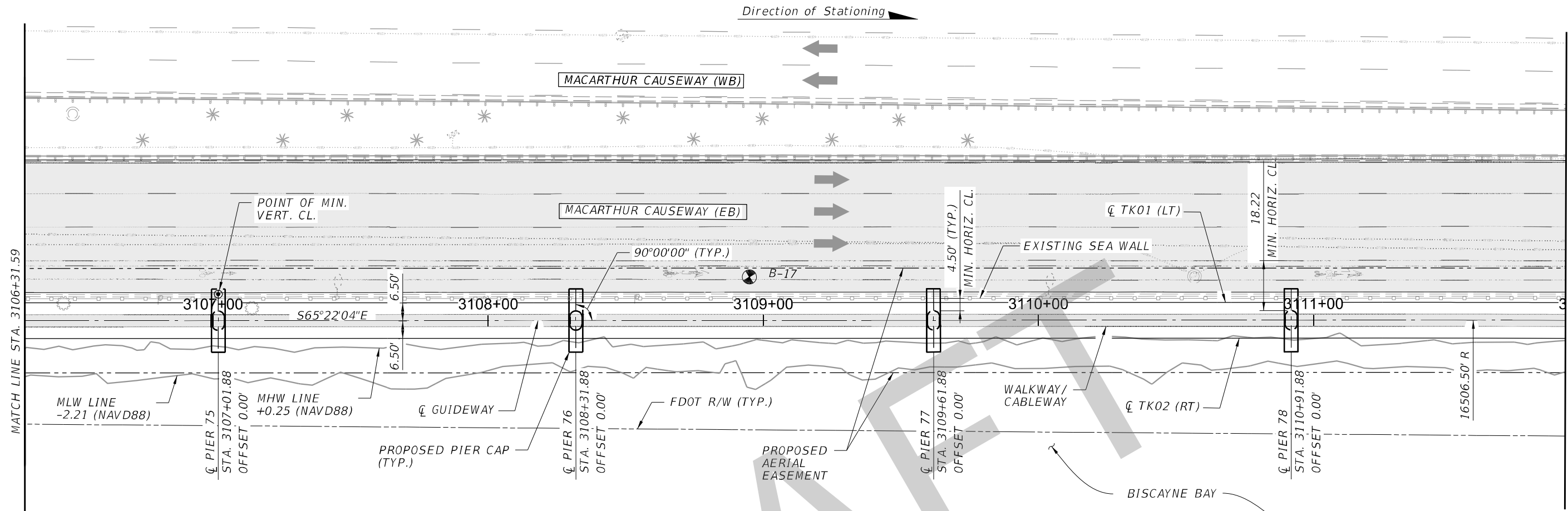


NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

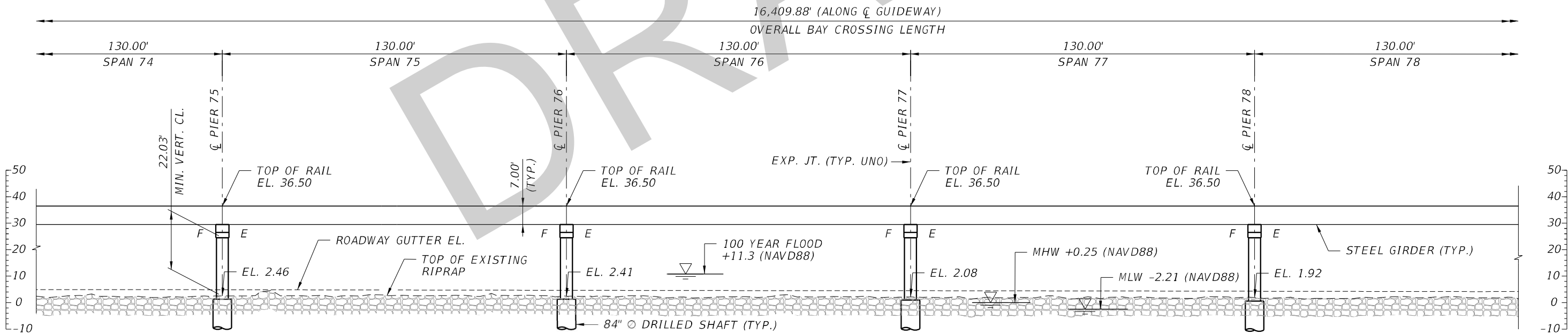
				Designed by JSV 12/19	<div><div>DTPW TRANSIT</div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: <div>BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (18 OF 30)</div>	
				Drawn by PCU 12/19		<div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE NO. 54072</div></div>					
				Checked by STP 01/20							
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No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-020	SHEET NO.

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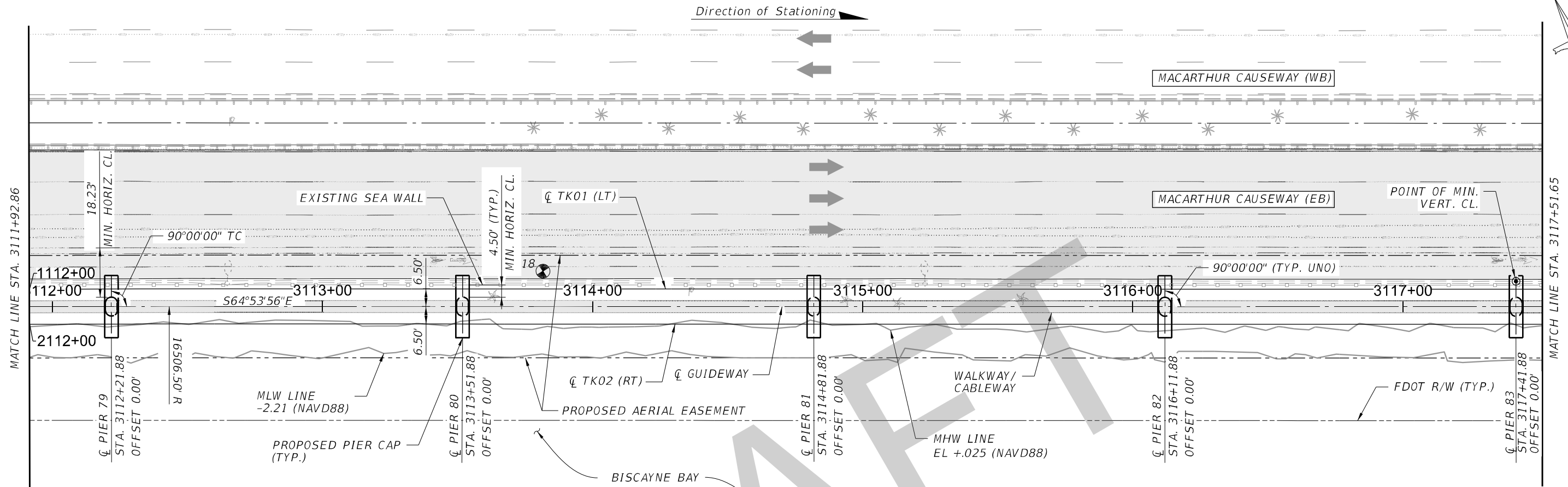
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON \varnothing GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

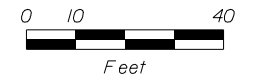
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				Drawn by PCU 12/19		<div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN , P.E. P.E. LICENSE No. 54072</div></div>					
				Checked by STP 01/20							
				DRAWING SCALE: AS SHOWN							
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE		

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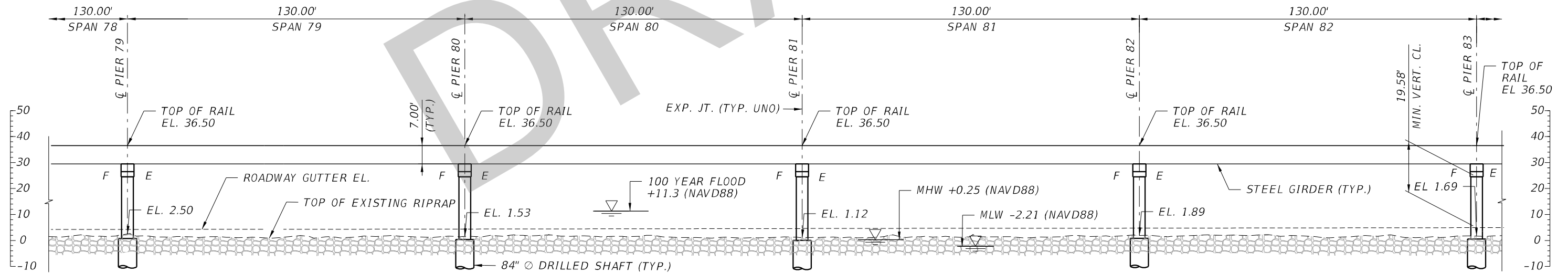
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PLAN



16,409.88' (ALONG CL GUIDEWAY)
OVERALL BAY CROSSING LENGTH



ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN	DTPW TRANSIT	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153					DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (20 OF 30)	
				Drawn by PCU 12/19			 PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE NO. 54072						
				Checked by STP 01/20									
				DRAWING SCALE: AS SHOWN									
No.	Date	App.		Revisions								DRAWING NO. W-022	SHEET NO.

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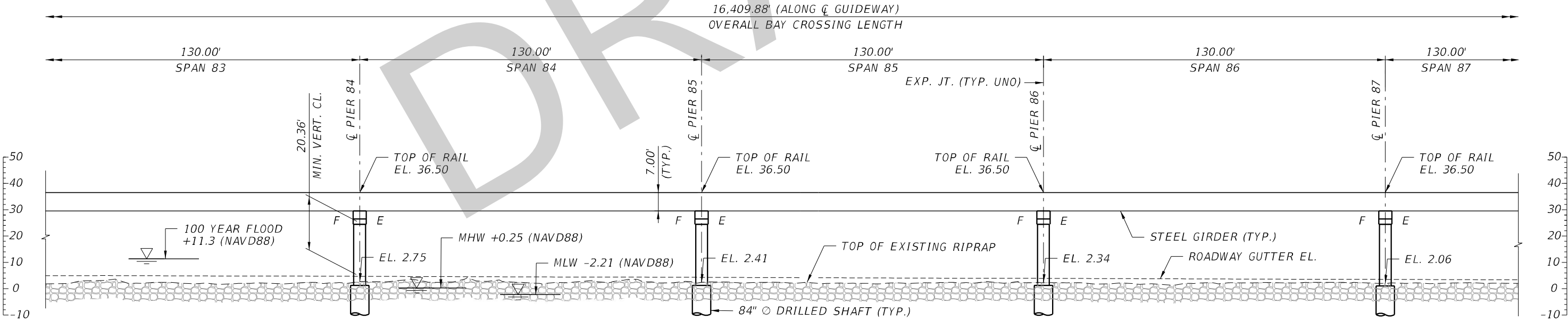
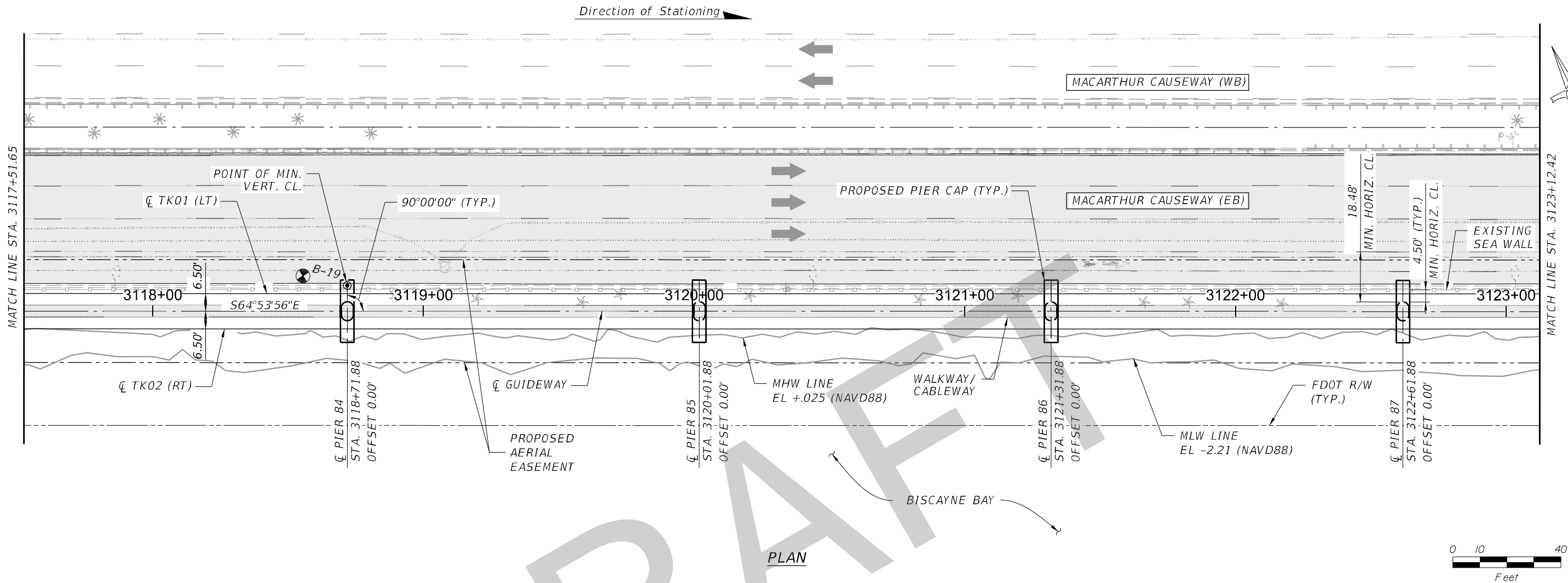
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No.	Date	App.	Revisions

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Drawn by PCU 12/19
Checked by STP 01/20
DRAWING SCALE: AS SHOWN

MIAMI-DADE COUNTY

PEOPLE'S TRANSPORTATION PLAN

DTPW TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153

PARSONS

7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE No. 54072

APPROVED	DATE	APPROVED	DATE

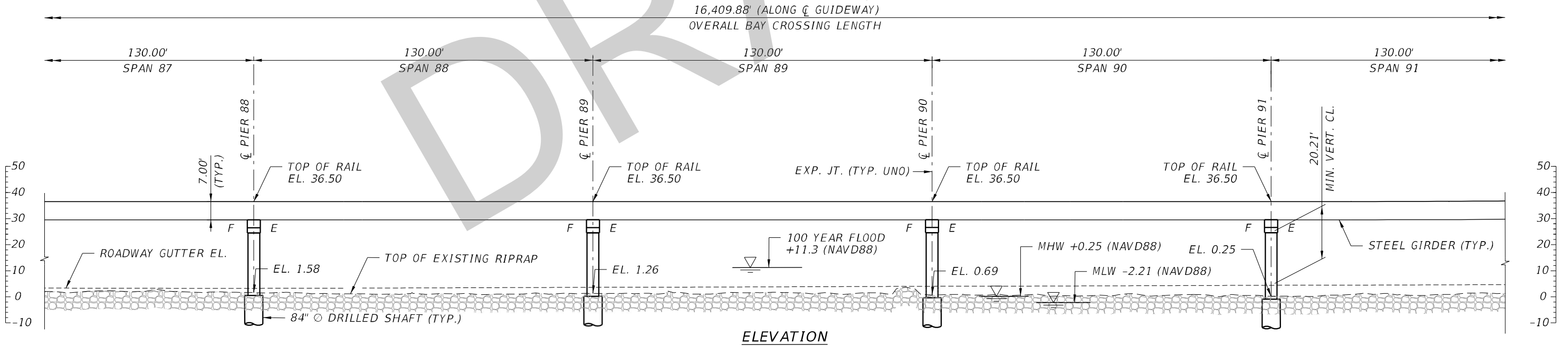
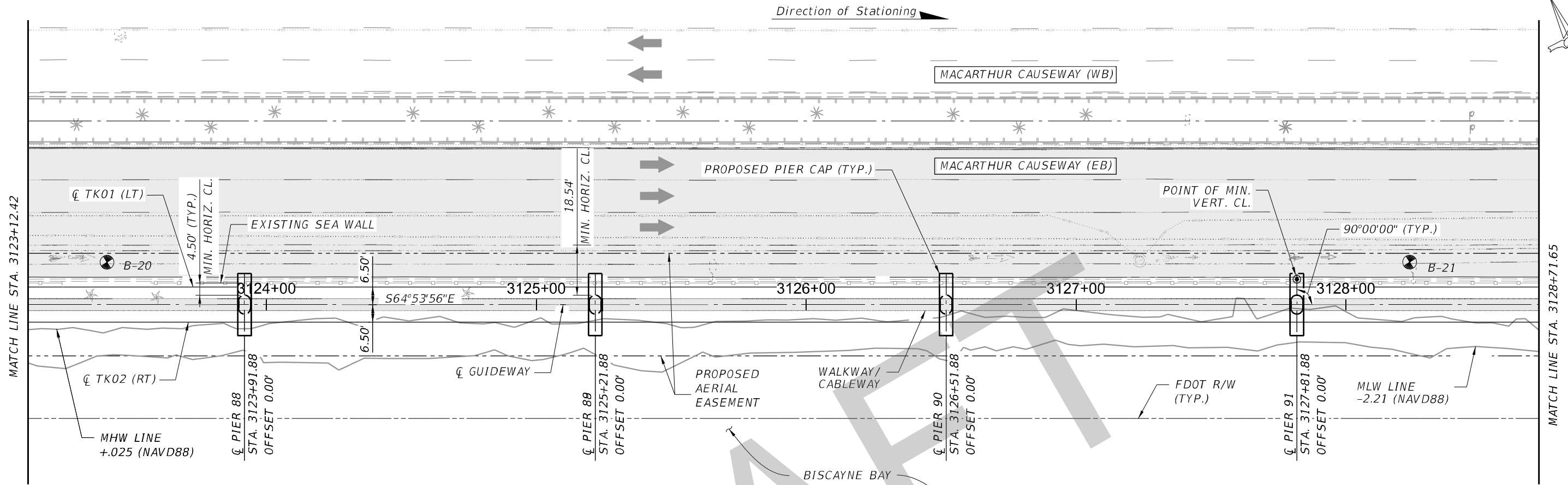
DRAWING TITLE:
**BEACH CORRIDOR GUIDEWAY
PLAN AND ELEVATION
(21 OF 30)**

DRAWING NO.
W-023

SHEET NO.

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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (22 OF 30)</div> <div>DRAWING NO. W-024 SHEET NO.</div>
				Drawn by PCU 12/19		 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE NO. 54072</div>				
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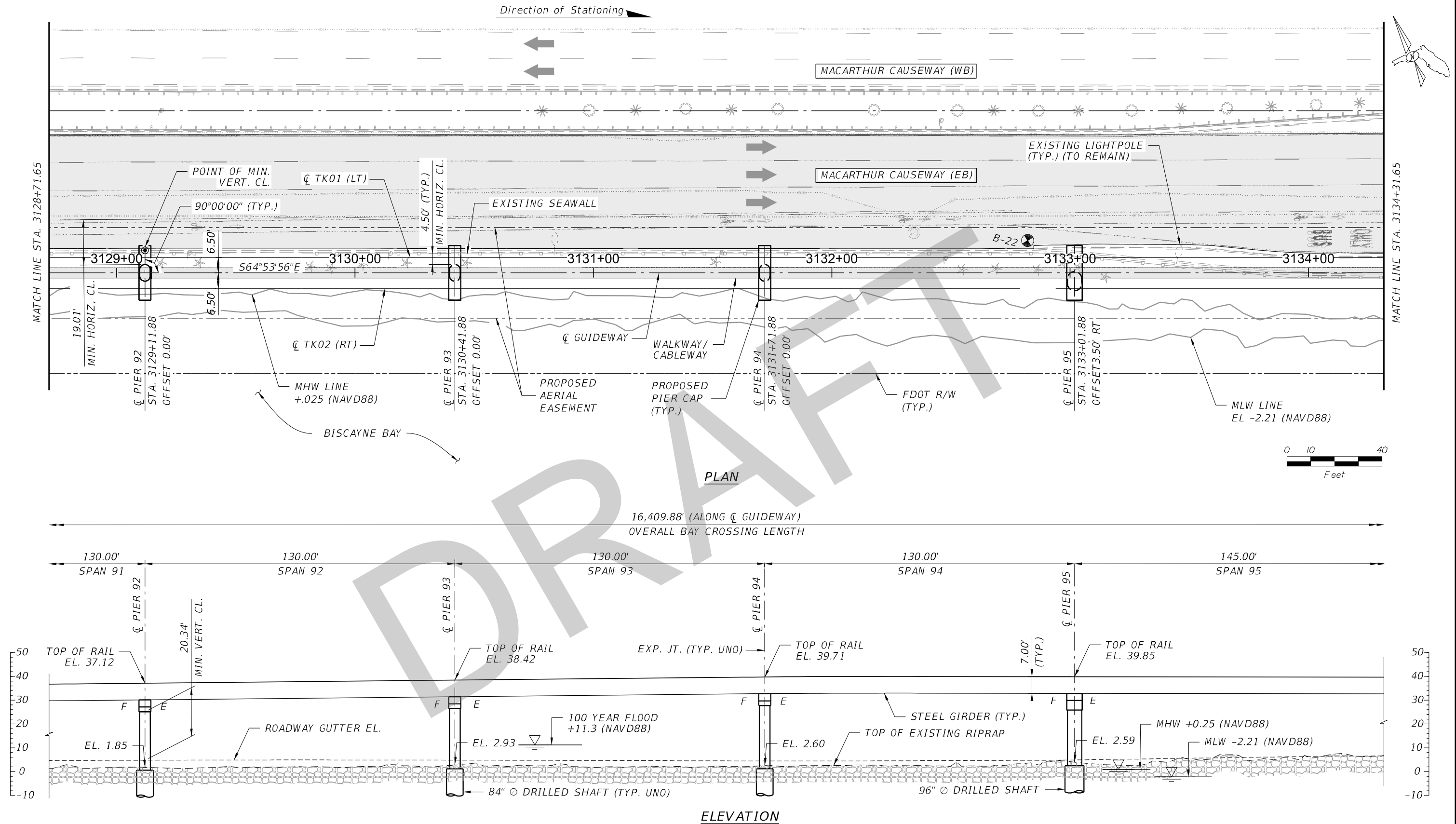
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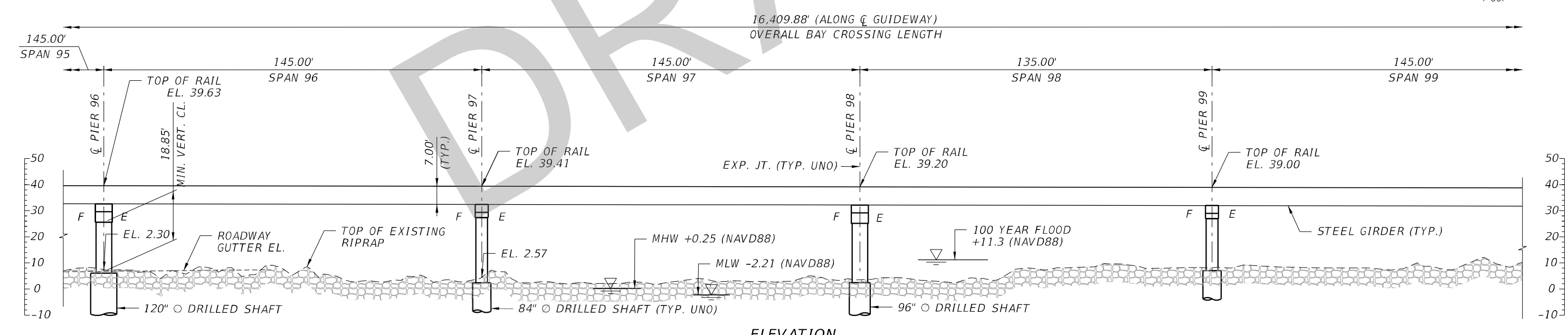
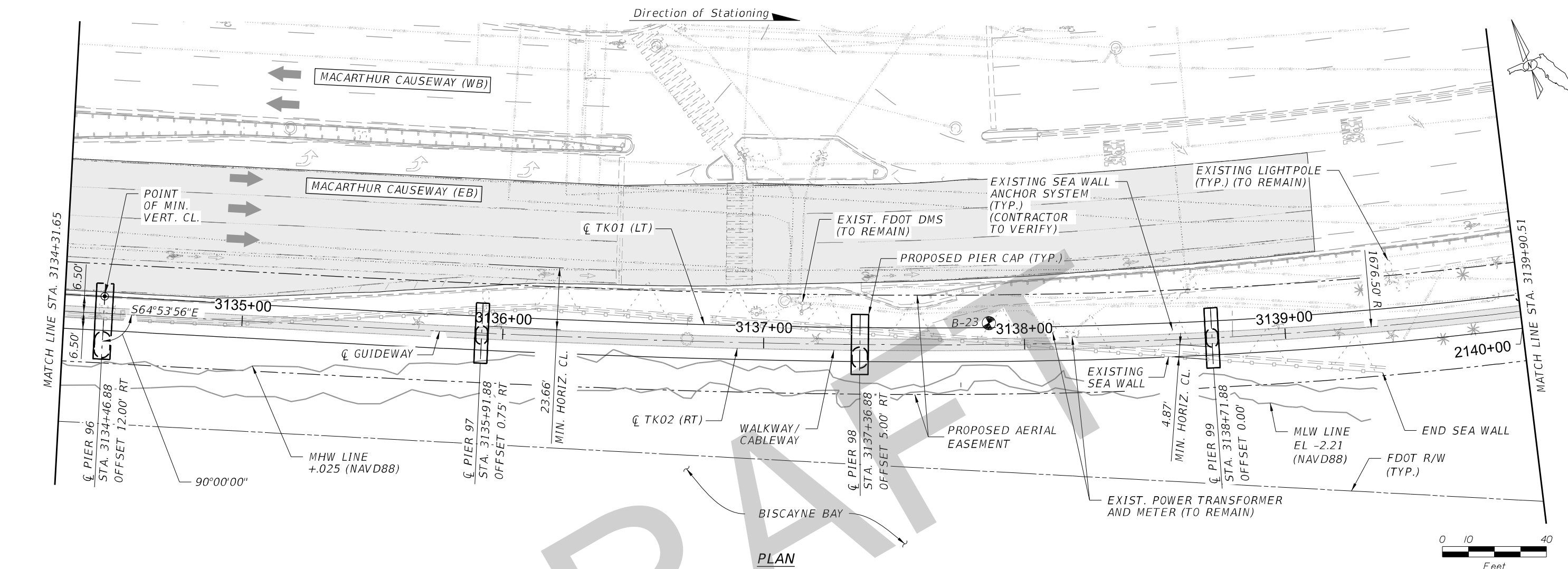
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153					DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (23 OF 30)	
				Drawn by PCU 12/19		 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072					DRAWING NO. W-025	
				Checked by STP 01/20							SHEET NO.	
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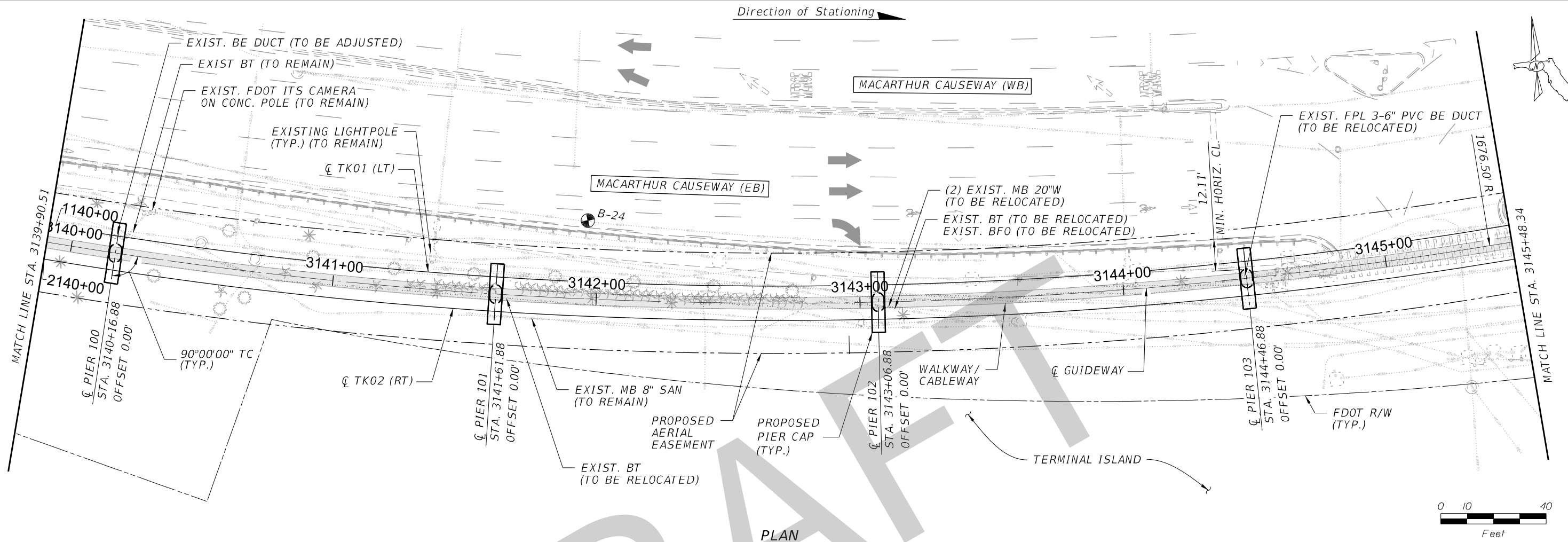


NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (24 OF 30)	
				Drawn by PCU 12/19		 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN , P.E. P.E. LICENSE No. 54072					
				Checked by STP 01/20							
				DRAWING SCALE: AS SHOWN							
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-026	SHEET NO.

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ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153					DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (25 OF 30)			
				Drawn by PCU 12/19		 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072					DRAWING NO. SHEET NO.			
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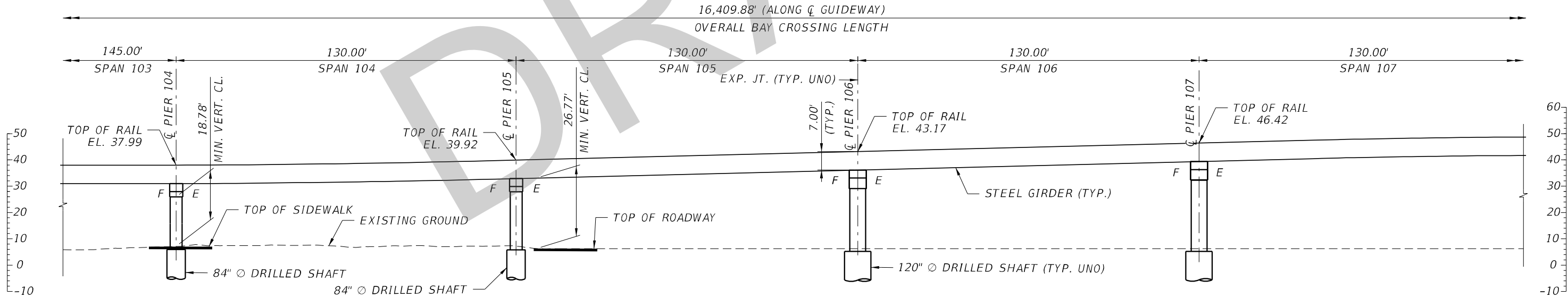
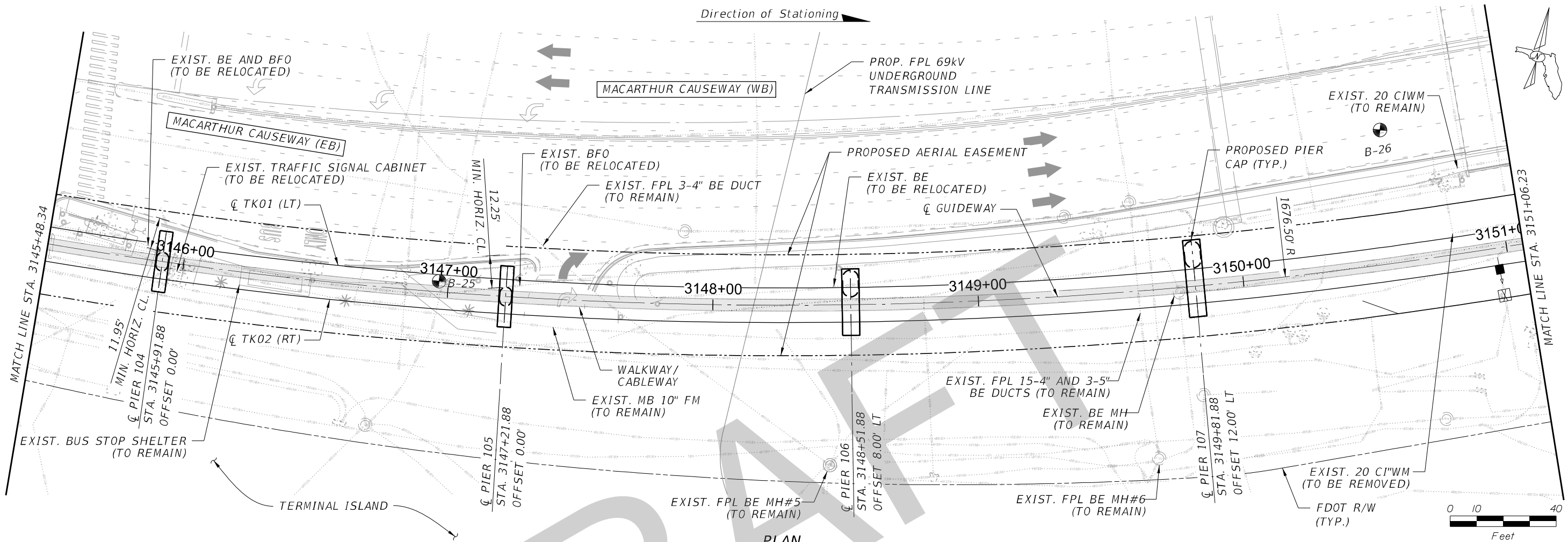
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	 <div>DTPW TRANSIT</div> PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (26 OF 30)</div> <div>DRAWING NO. W-028 SHEET NO.</div>	
				Drawn by PCU 08/20		 <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>					
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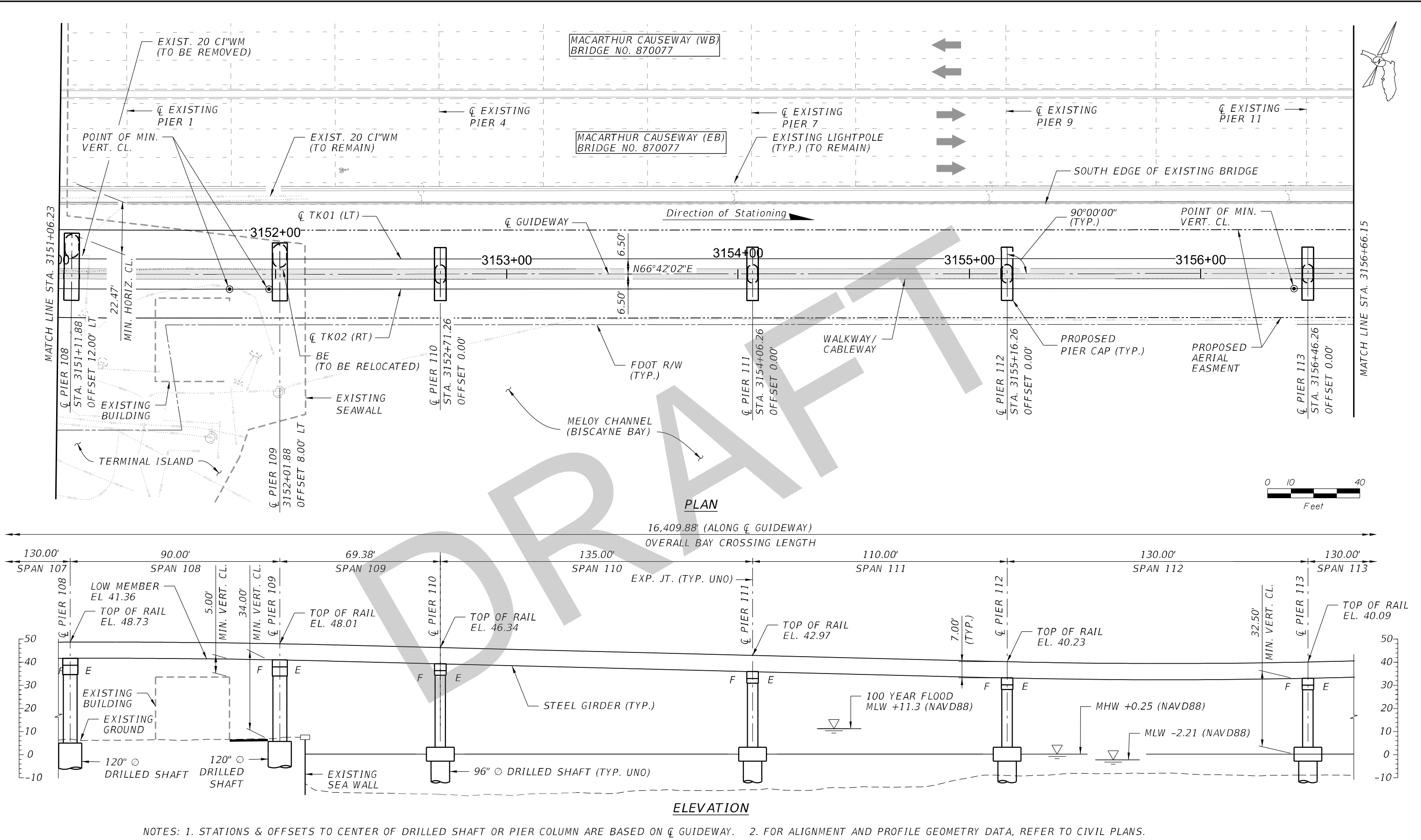
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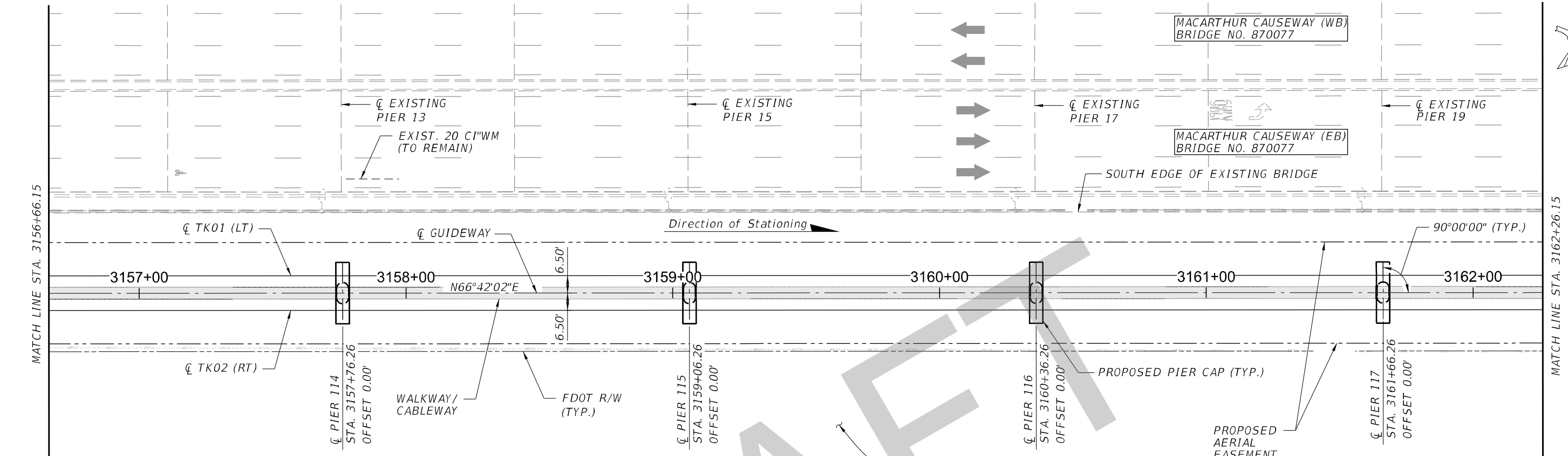


NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

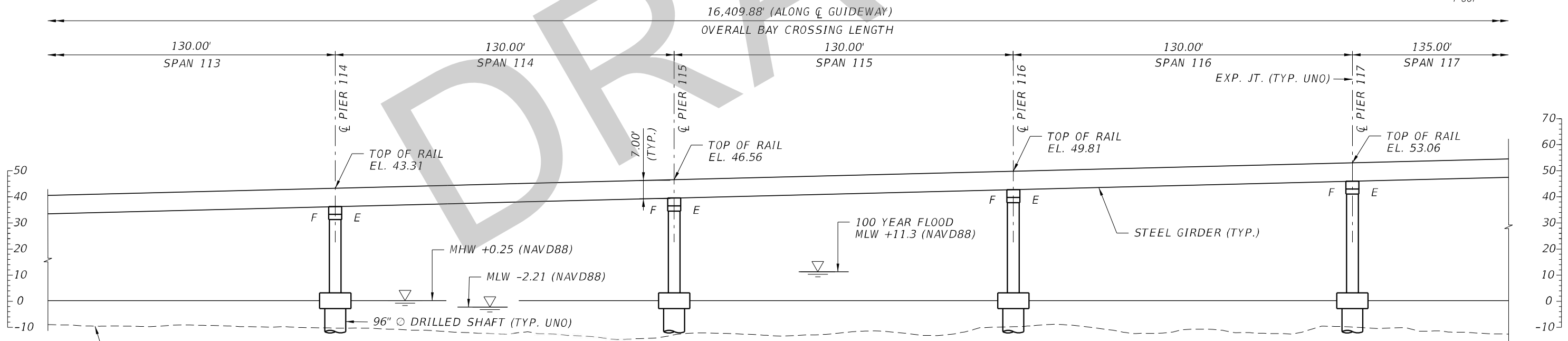
				Designed by RLH 08/20	<div><div><div>MIAMI-DADE COUNTY</div><div></div></div><div>DTPW TRANSIT</div></div> <div>PEOPLE'S TRANSPORTATION PLAN</div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (27 OF 30)</div>	
				Drawn by PCU 08/20		<div><div><div>PARSONS</div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div></div>					
				Checked by STP 08/20							
				DRAWING SCALE: AS SHOWN							
No.	Date	App.		Revisions		APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-029	SHEET NO.

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PLAN



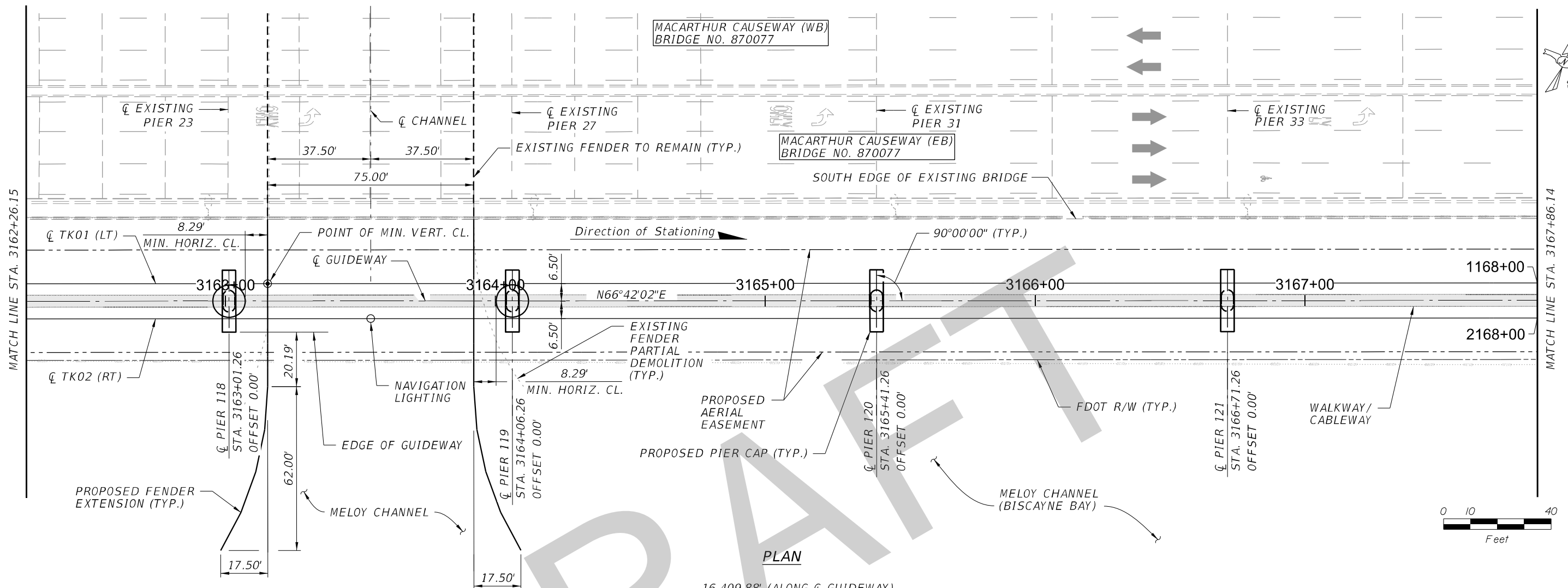
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON \varnothing GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

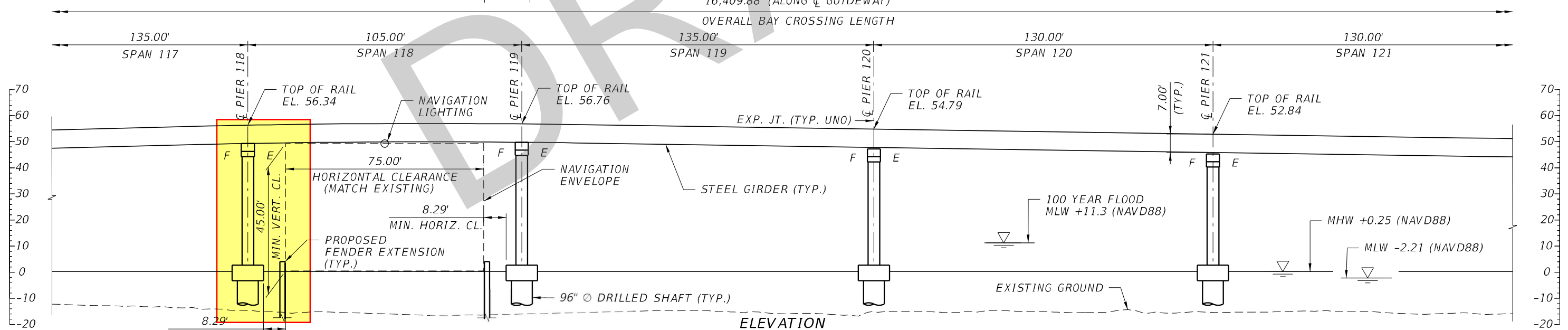
				Designed by JSV 12/19	<div><div><div><div></div><div>MIAMI-DADE</div><div>COUNTY</div></div><div></div></div><div>DTPW TRANSIT</div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (28 OF 30)</div>			
				Drawn by PCU 12/19		<div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN , P.E. P.E. LICENSE No. 54072</div></div>							

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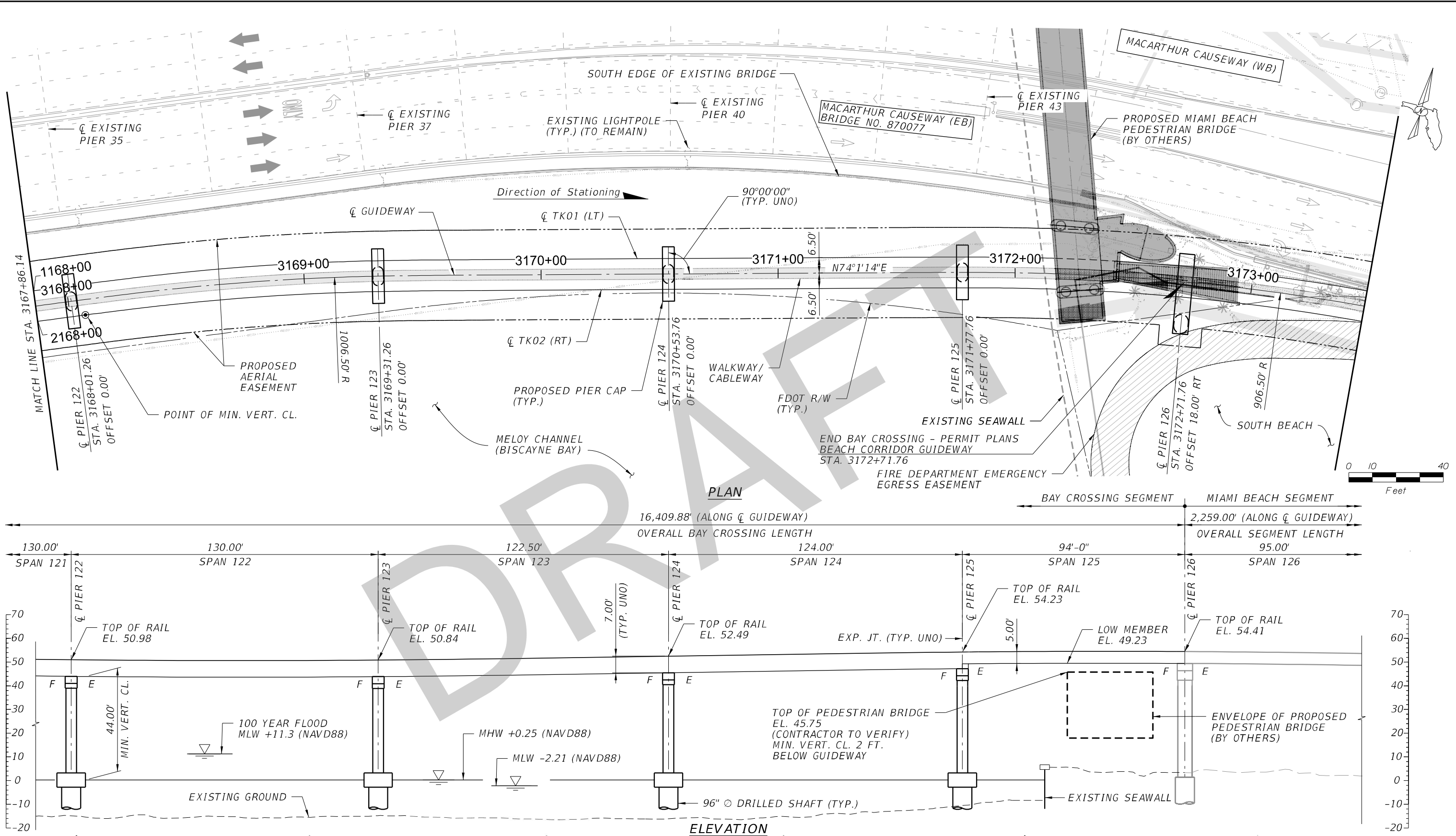
ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by JSV 12/19	 MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY PLAN AND ELEVATION (29 OF 30)</div> <div>DRAWING NO. W-031</div> <div>SHEET NO.</div>
				Drawn by PCU 12/19		 PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072				
				Checked by STP 01/20						
				DRAWING SCALE: AS SHOWN						
No.	Date	App.		Revisions		APPROVED		DATE	APPROVED	DATE

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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20
				Drawn by PCU 08/20
				Checked by STP 08/20
				DRAWING SCALE: AS SHOWN
No.	Date	App.	Revisions	

MIAMI-DADE
COUNTY

PEOPLE'S TRANSPORTATION PLAN

DTPW
TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153

PARSONS

7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE No. 54072

APPROVED

DATE

APPROVED

DATE

DRAWING TITLE:
BEACH CORRIDOR GUIDEWAY
PLAN AND ELEVATION
(30 OF 30)

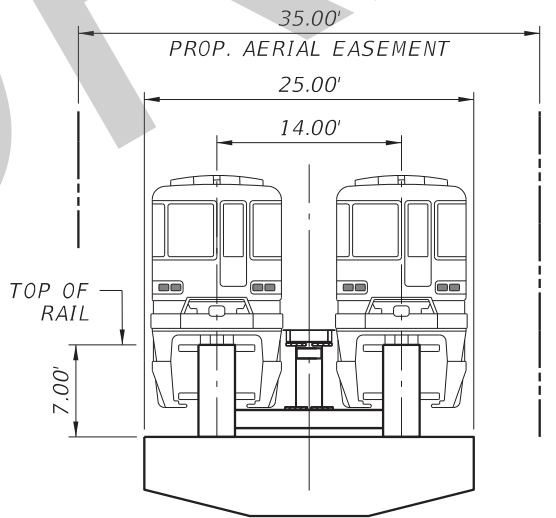
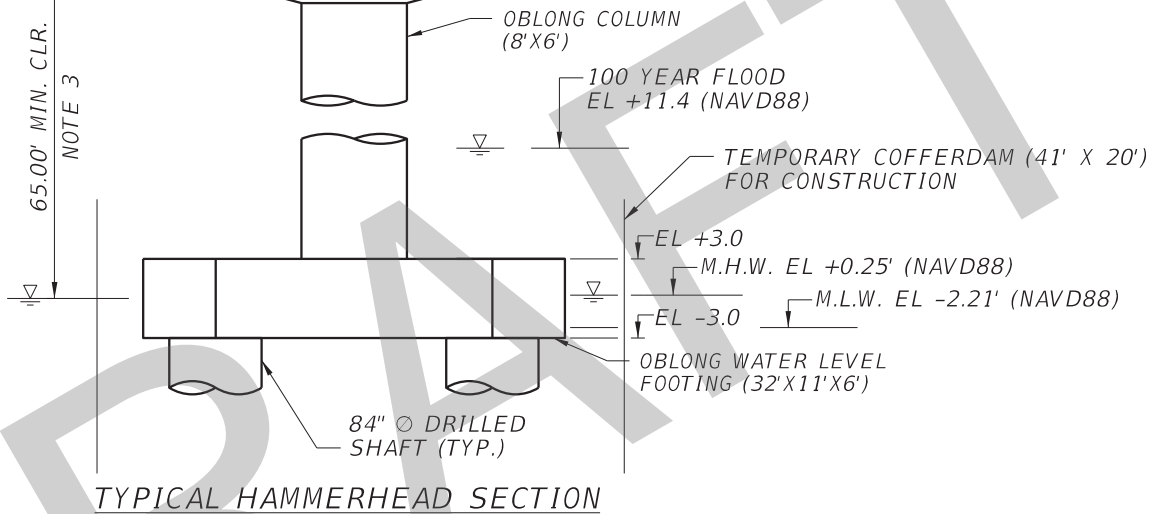
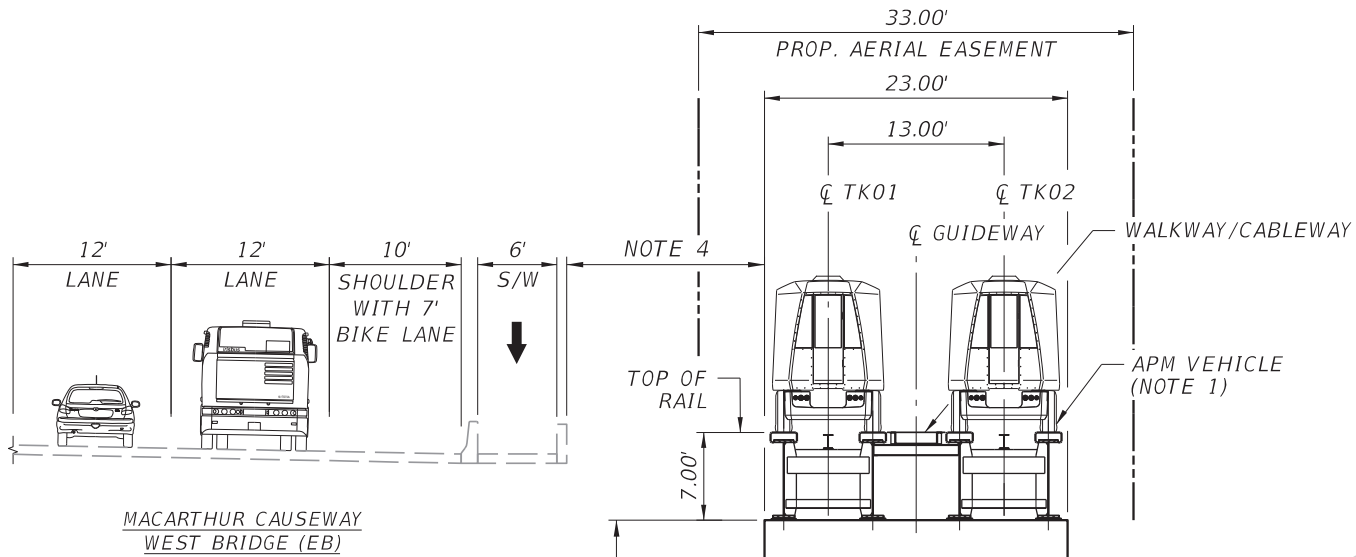
DRAWING NO.
W-032

SHEET NO.

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- NOTES:
1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE BELOW FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
 2. PROPOSED RAPID TRANSIT GUIDEWAY SPAN LENGTHS TO MATCH THOSE OF ADJACENT EXISTING BRIDGE (130-FT & 145-FT).
 3. PROPOSED RAPID TRANSIT GUIDEWAY TO PROVIDE A 65.0-FT (MIN.) VERTICAL CLEARANCE OVER NAVIGATIONAL CHANNEL (INTRACOASTAL WATERWAY).
 4. PROPOSED RAPID TRANSIT GUIDEWAY TO PROVIDE A 10-FT (MIN.) TO 30-FT (MAX.) LATERAL CLEARANCE TO ADJACENT BRIDGE.
 5. EXISTING NAVIGATIONAL CHANNEL FENDER SYSTEM TO BE REMOVED AND REPLACED AS NECESSARY TO PROTECT PROPOSED RAPID TRANSIT GUIDEWAY PIERS.
 6. REFER TO PIER DATA TABLE FOR PIER TYPE, COLUMN DIMENSIONS, AND FOUNDATION SIZE.



PIER DATA TABLE			
PIER NO.	TYPE	COLUMN	FOUNDATION
1, 16-17, 20-26, 31-32, 36-61, 64-94, 97, 99-105	HAMMERHEAD	7' X 4.5'	1-84" DS
2-15	HAMMERHEAD	8' X 6'	2-84" DS
18-19, 27, 63, 96, 106-109	CANTILEVER	10' X 6'	1-120" DS
28, 62, 95, 98, 126	CANTILEVER	8' X 6'	1-96" DS
29-30	STATION PIER	6' X 5'	2-72" DS
33-34	CANTILEVER	10' X 6'	4-36" ACP
35	HAMMERHEAD	10' X 6'	4-36" ACP
110-125	HAMMERHEAD	8' X 6'	1-96" DS

NOTE:
DS = DRILLED SHAFT
ACP = AUGERED CAST PILE

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				Drawn by PCU 12/19
				Checked by STP 01/20
				DRAWING SCALE: AS SHOWN
No.	Date	App.	Revisions	



MIAMI-DADE


COUNTY

PEOPLE'S TRANSPORTATION PLAN

DTPW

TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153



7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
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CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE NO. 54072

APPROVED

DATE

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DATE

DRAWING TITLE:

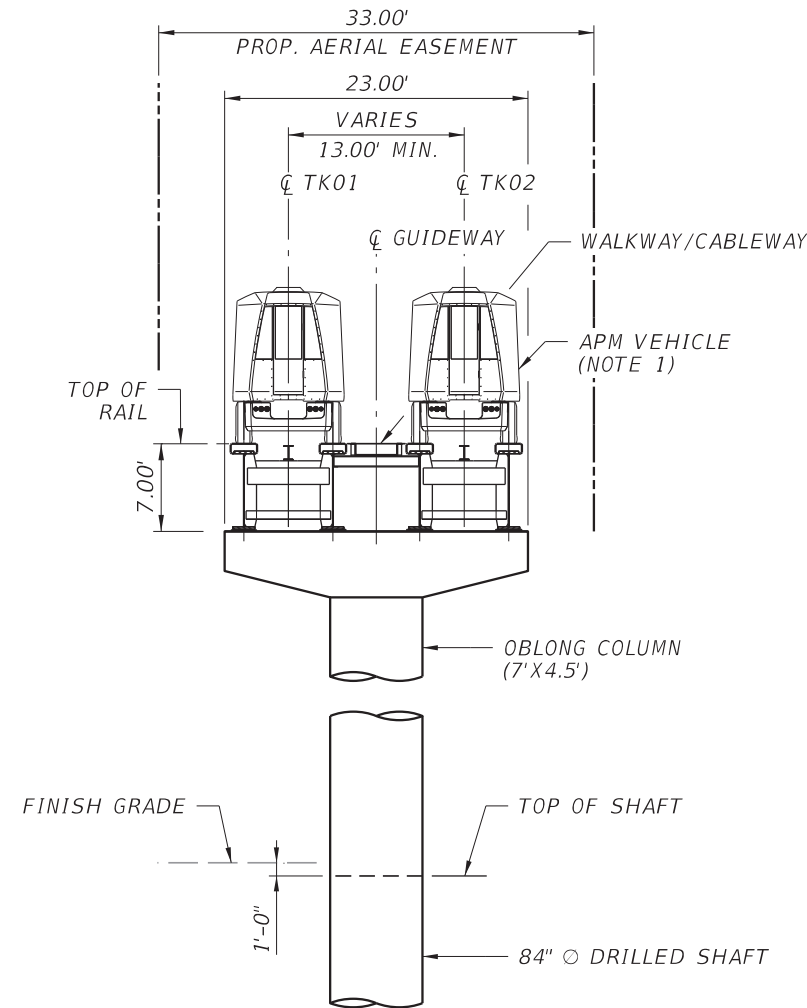
BEACH CORRIDOR GUIDEWAY
TYPICAL SECTION
WEST BRIDGE

DRAWING NO.

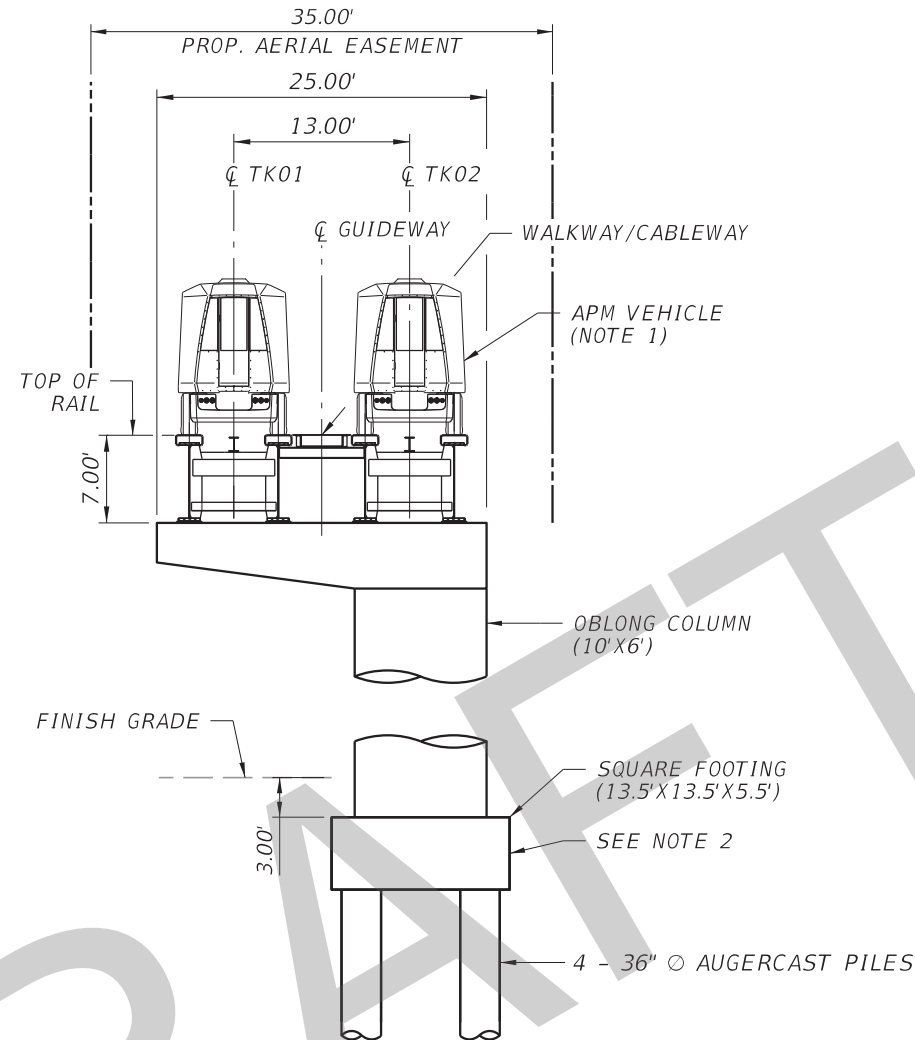
W-033

SHEET NO.

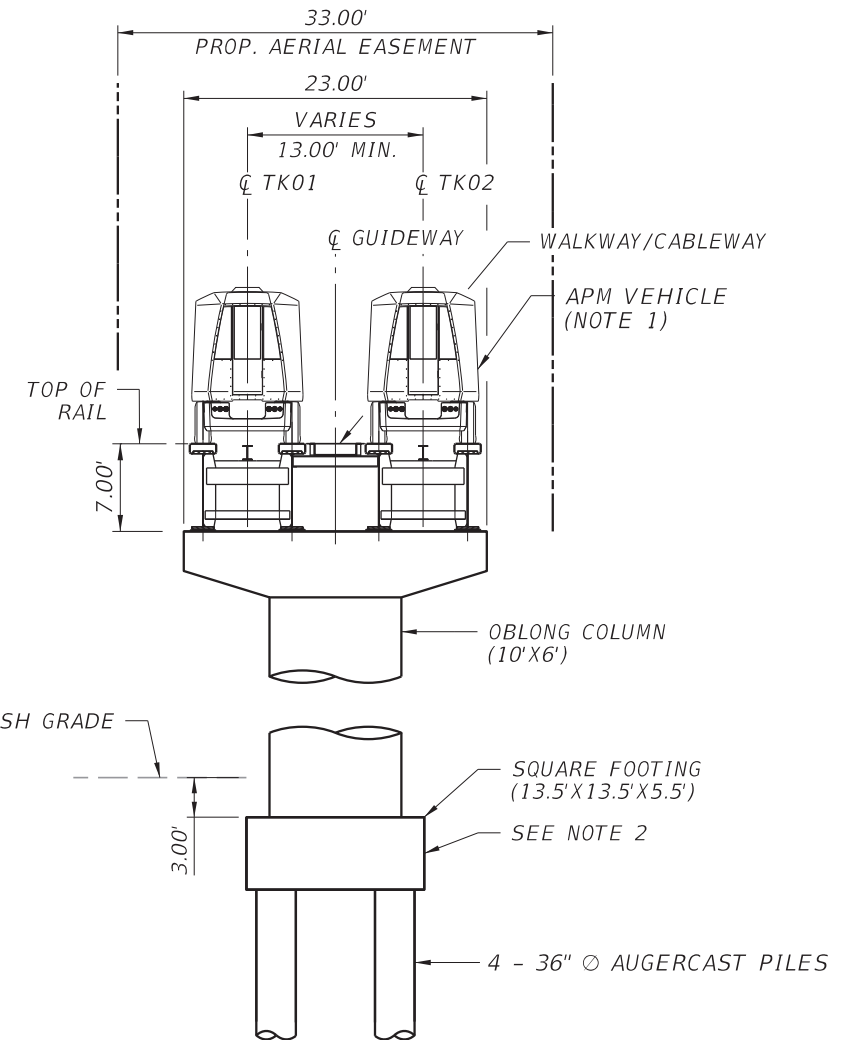
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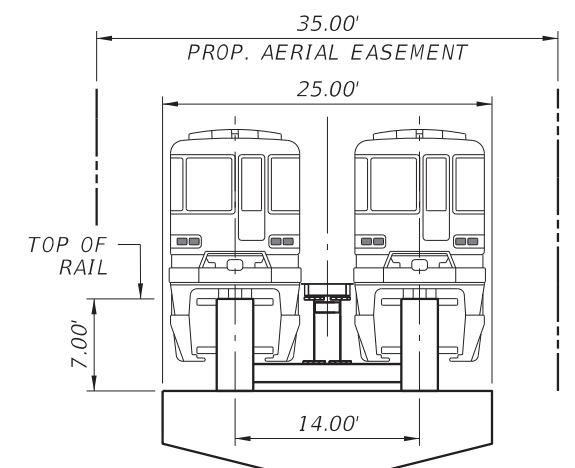
TYPICAL HAMMERHEAD SECTION



TYPICAL CANTILEVER SECTION
(WEST AND BETWEEN POMT TUNNELS)



TYPICAL HAMMERHEAD SECTION
(EAST OF POMT TUNNELS)



MONORAIL VEHICLE ALTERNATE

- NOTES:
1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE BELOW FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
 2. REFER TO FOUNDATION LAYOUT SHEET 8 OF 22 FOR FOOTING PLAN VIEW AND HORIZONTAL CLEARANCES.
 3. REFER TO PIER DATA TABLE ON SHEET W-033 FOR PIER TYPE, COLUMN DIMENSIONS, AND FOUNDATION SIZE.

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PEOPLE'S TRANSPORTATION PLAN

DTPW
TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153



7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE NO. 54072

APPROVED DATE APPROVED DATE

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6/24/2020

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DRAWING TITLE:
**BEACH CORRIDOR GUIDEWAY
TYPICAL SECTION POMT
AND AT WATSON ISLAND**

DRAWING NO.
W-034

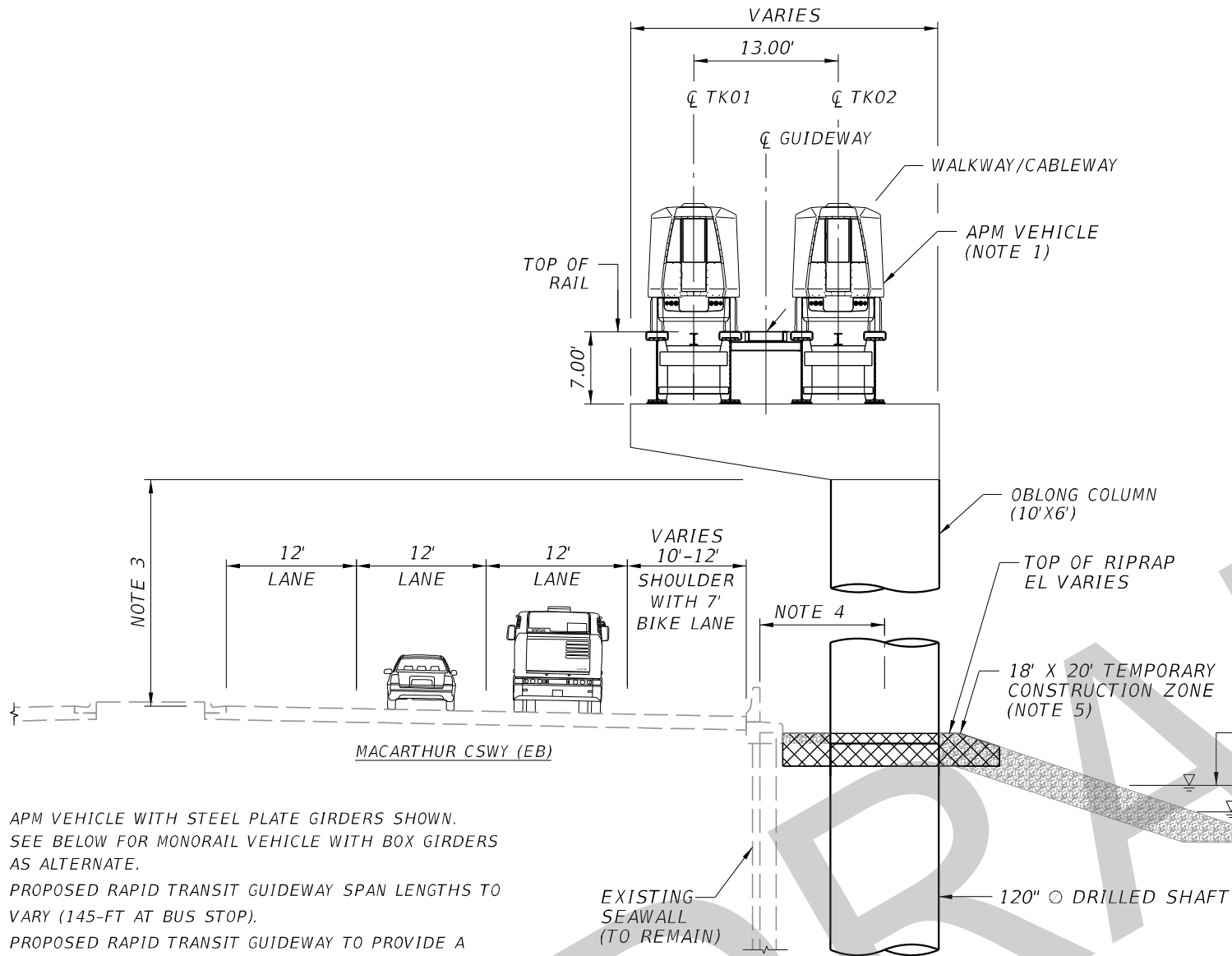
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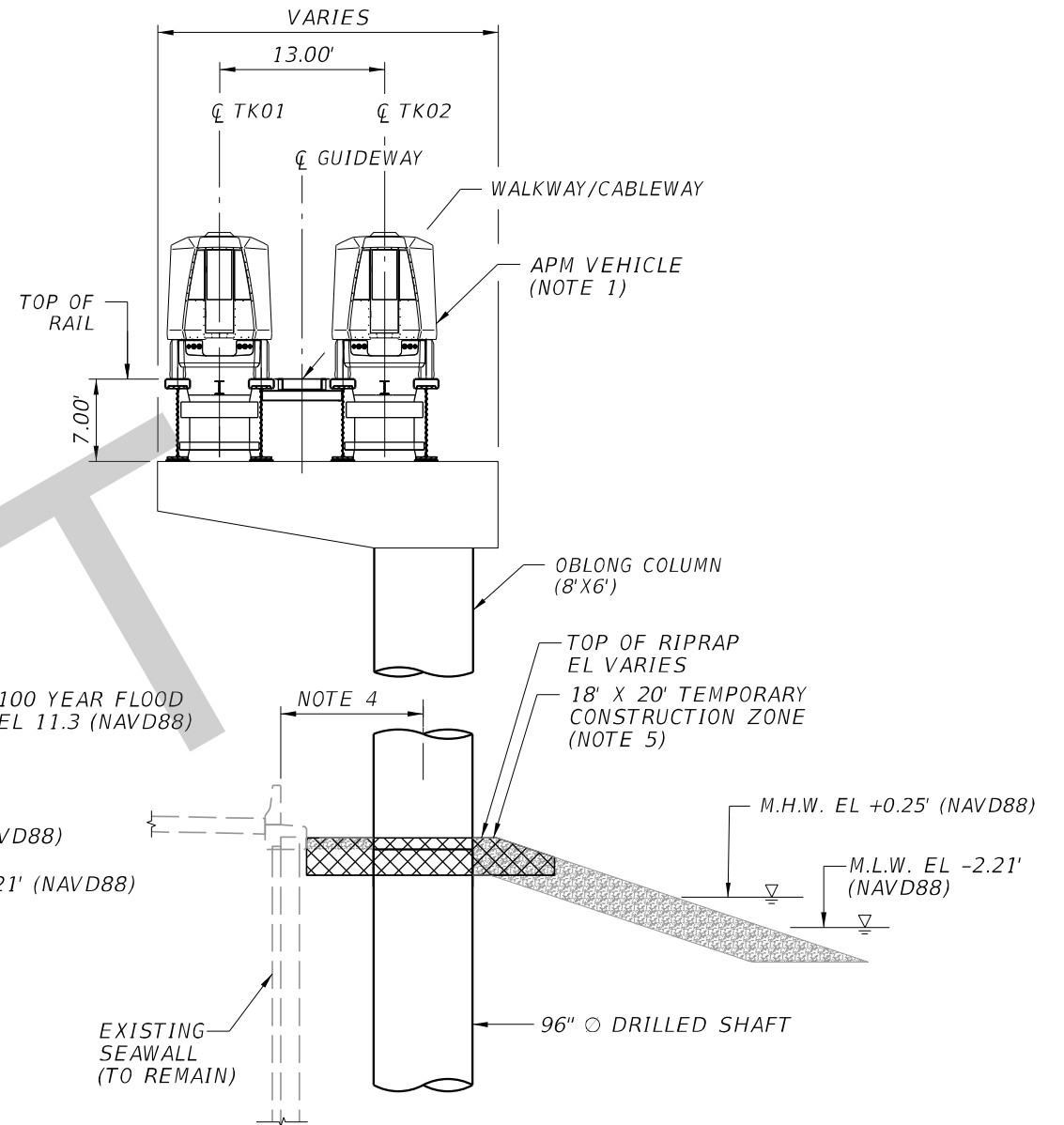
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NOTES:

1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE BELOW FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
2. PROPOSED RAPID TRANSIT GUIDEWAY SPAN LENGTHS TO VARY (145-FT AT BUS STOP).
3. PROPOSED RAPID TRANSIT GUIDEWAY TO PROVIDE A 16.5-FT MINIMUM VERTICAL CLR. OVER ROADWAY.
4. PROPOSED RAPID TRANSIT GUIDEWAY PIERS TO BE LOCATED 8-FT (MIN.) TO 12-FT (MAX) FROM BACK OF EXISTING CONCRETE BARRIER WALL. (SEA WALL)
5. AFTER CONSTRUCTION, THE EXISTING RIPRAP SHALL BE RESTORED FOR EROSION CONTROL AND STORM SURGE PROTECTION.



TYPICAL CANTILEVER SECTION
(AT BUS STOP - PIERS 63 & 96)



TYPICAL CANTILEVER SECTION
(ECCENTRIC PIER AT BUS STOP
- PIERS 62, 95 & 98)

				Designed by JSV 12/19
				Drawn by PCU 12/19
				Checked by STP 01/20
				DRAWING SCALE: AS SHOWN
No.	Date	App.	Revisions	



DTPW
TRANSIT

PEOPLE'S TRANSPORTATION PLAN

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153



7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 945-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE No. 54072

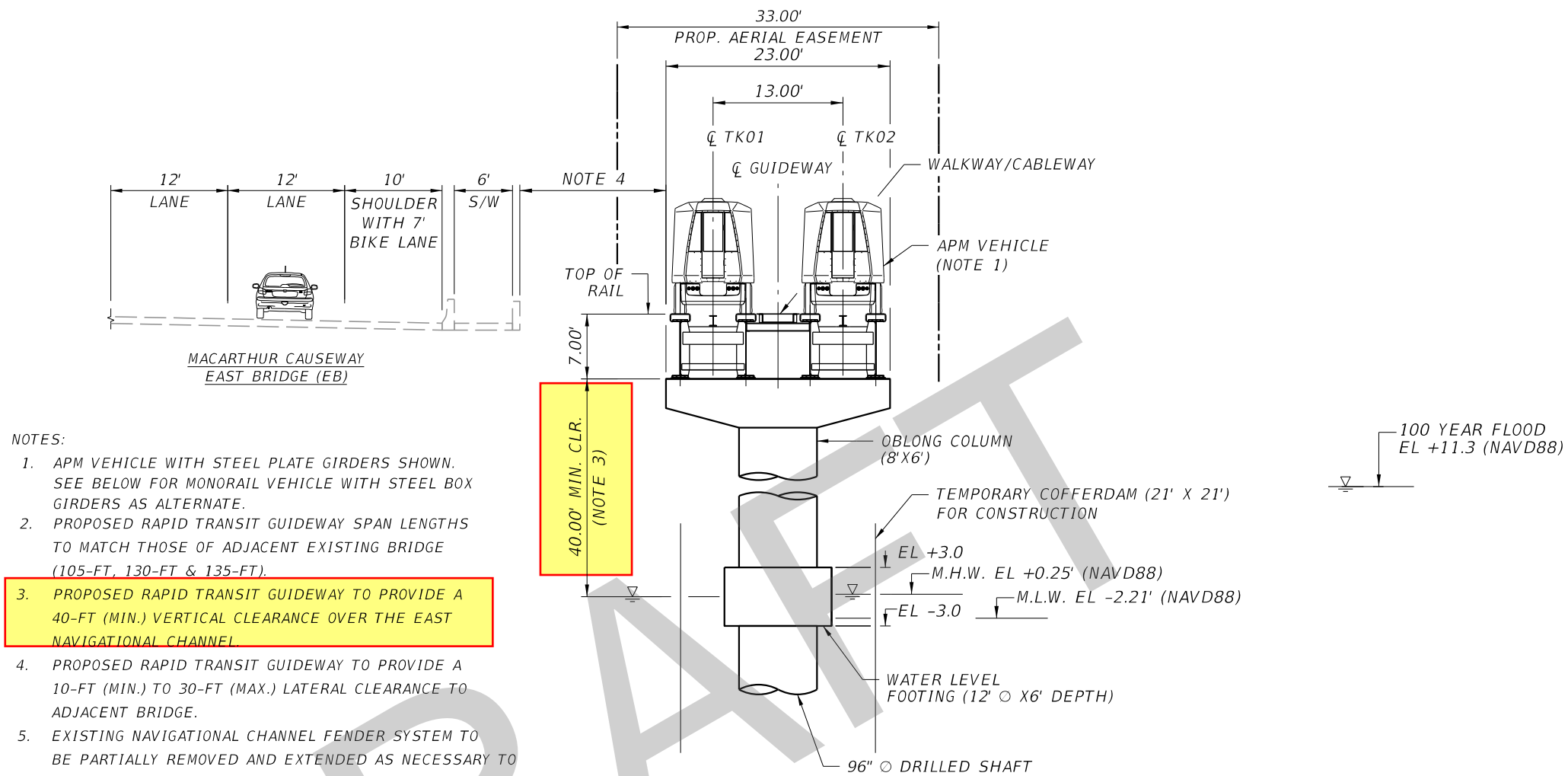
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DRAWING TITLE:
**BEACH CORRIDOR GUIDEWAY
TYPICAL SECTION
CAUSEWAY (2 OF 2)**

DRAWING NO.
W-036

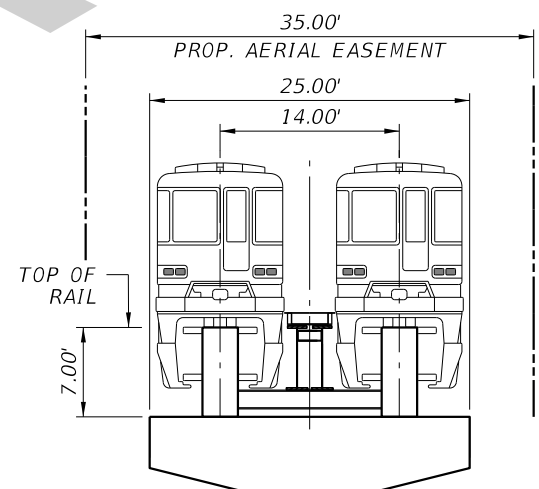
SHEET NO.

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- NOTES:
1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE BELOW FOR MONORAIL VEHICLE WITH STEEL BOX GIRDERS AS ALTERNATE.
 2. PROPOSED RAPID TRANSIT GUIDEWAY SPAN LENGTHS TO MATCH THOSE OF ADJACENT EXISTING BRIDGE (105-FT, 130-FT & 135-FT).
 3. PROPOSED RAPID TRANSIT GUIDEWAY TO PROVIDE A 40-FT (MIN.) VERTICAL CLEARANCE OVER THE EAST NAVIGATIONAL CHANNEL.
 4. PROPOSED RAPID TRANSIT GUIDEWAY TO PROVIDE A 10-FT (MIN.) TO 30-FT (MAX.) LATERAL CLEARANCE TO ADJACENT BRIDGE.
 5. EXISTING NAVIGATIONAL CHANNEL FENDER SYSTEM TO BE PARTIALLY REMOVED AND EXTENDED AS NECESSARY TO PROTECT PROPOSED RAPID TRANSIT GUIDEWAY PIERS.
 6. REFER TO PIER DATA TABLE ON SHEET W-033 FOR PIER TYPE, COLUMN DIMENSIONS, AND FOUNDATION SIZE.

TYPICAL HAMMERHEAD SECTION

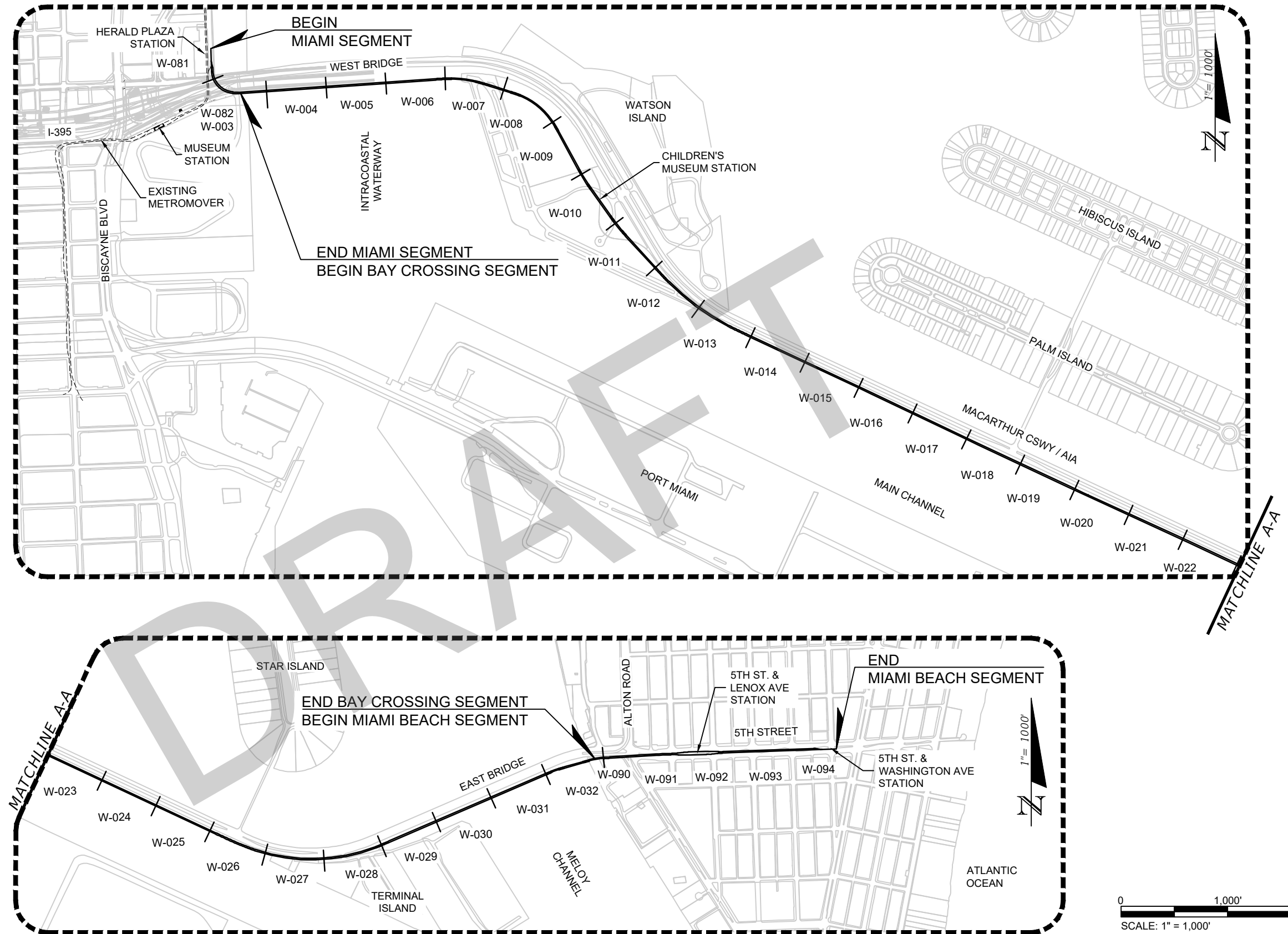


MONORAIL VEHICLE ALTERNATE

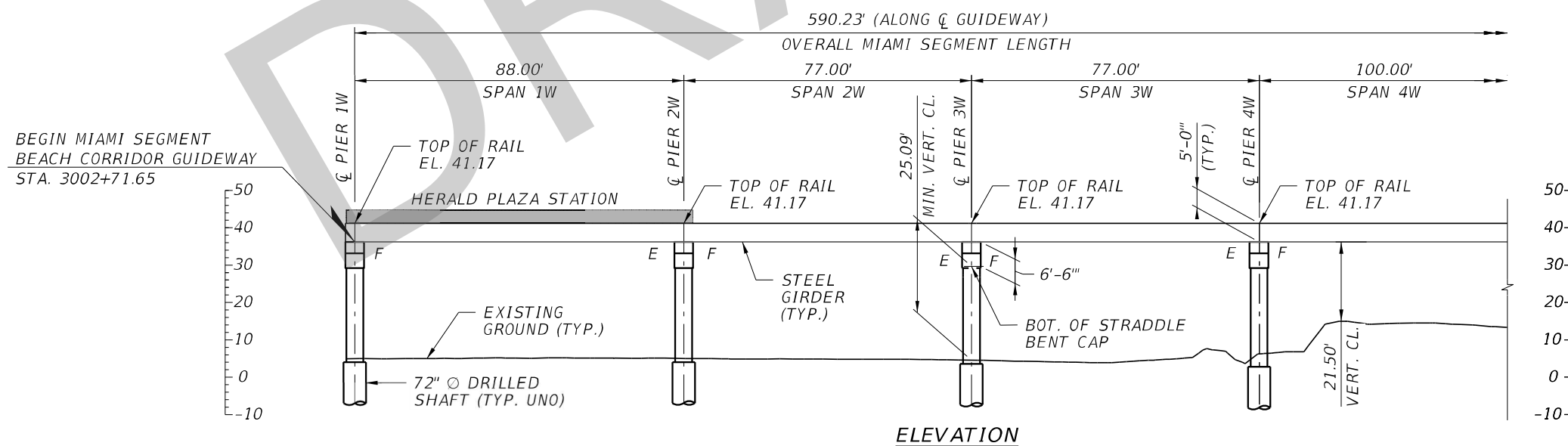
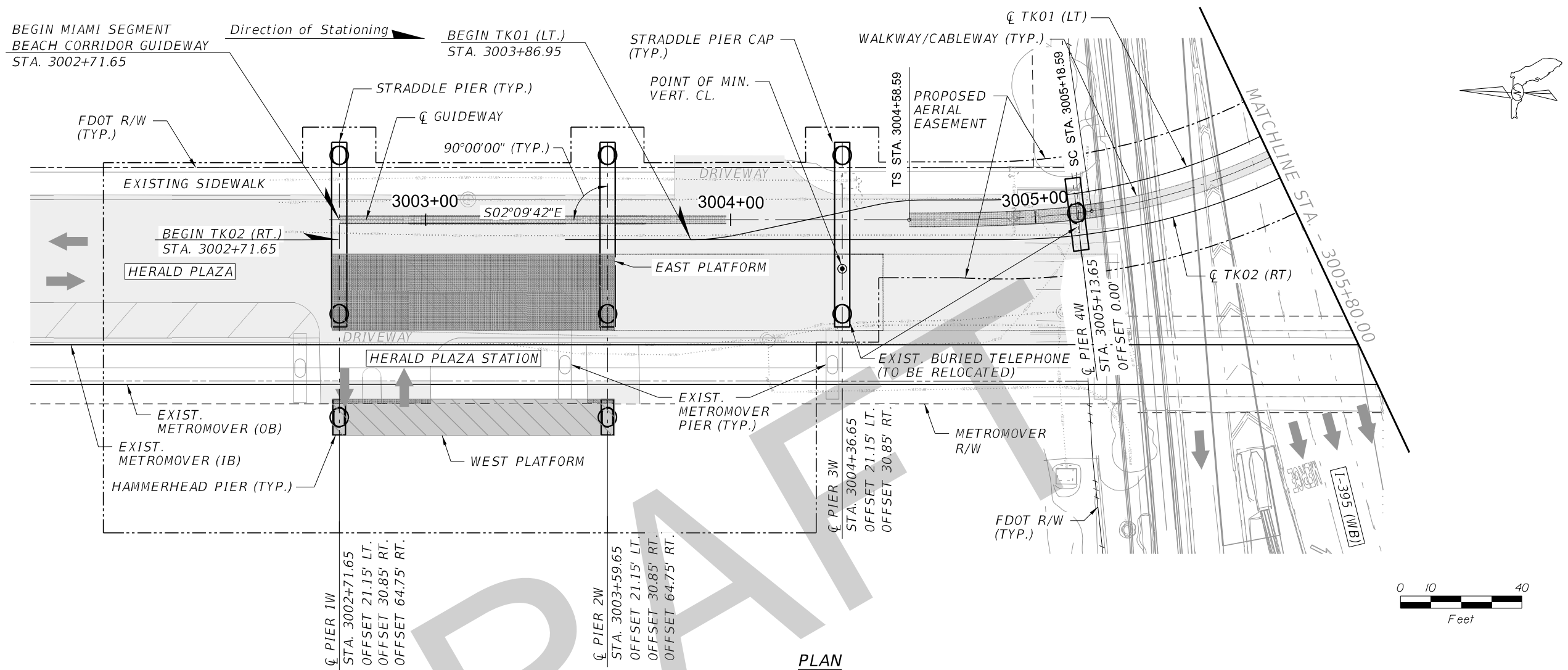
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				Checked by STP 08/20		<div><div><div></div><div></div></div><div>PARSONS</div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div>																																
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KEY MAP



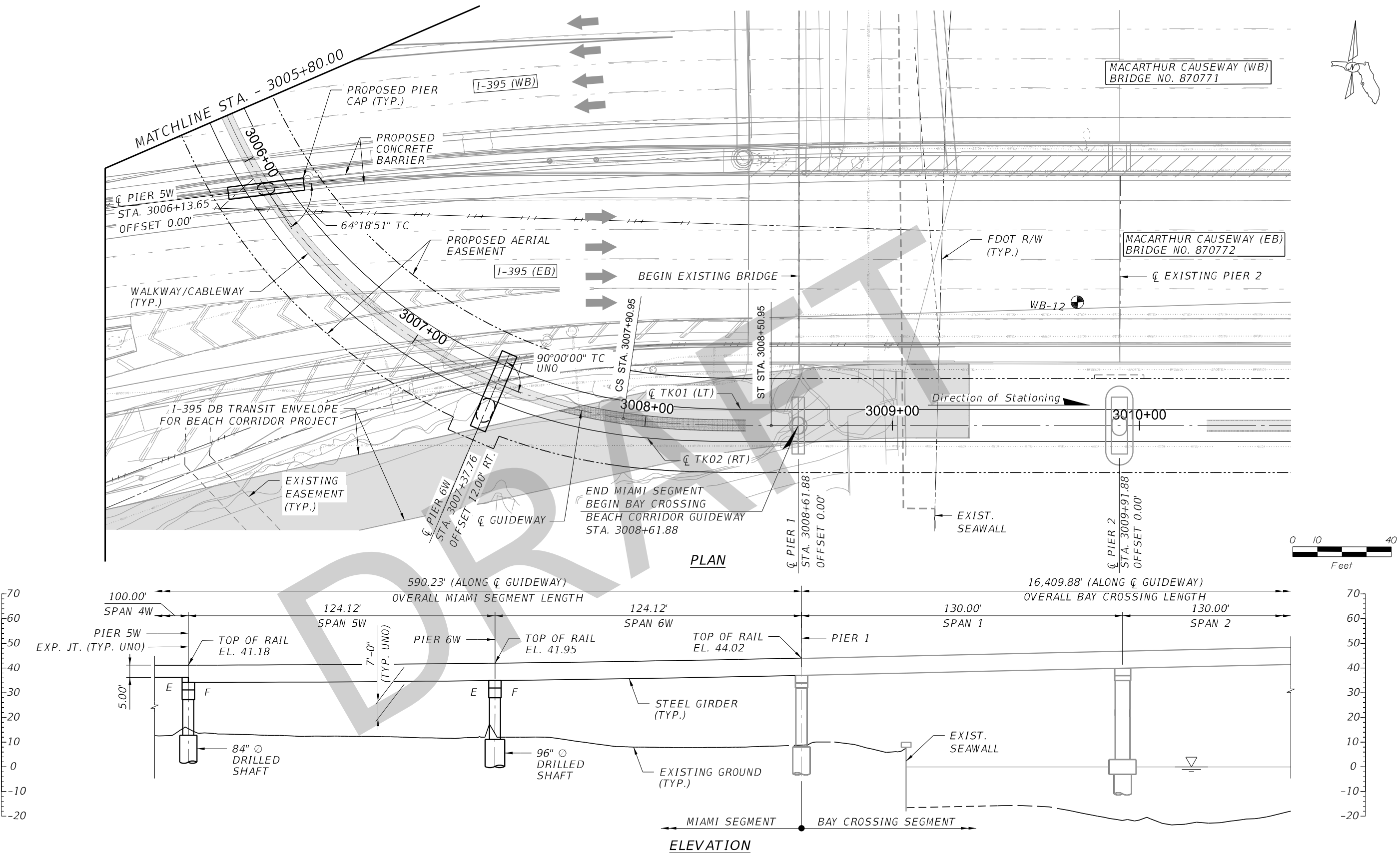
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				DRAWING SCALE: AS SHOWN						
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No.	DATE	APP.	REVISIONS				APPROVED	DATE	APPROVED	DATE



NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON C GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

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				Drawn by PCU 08/20		<div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div>	DRAWING NO. W-081				
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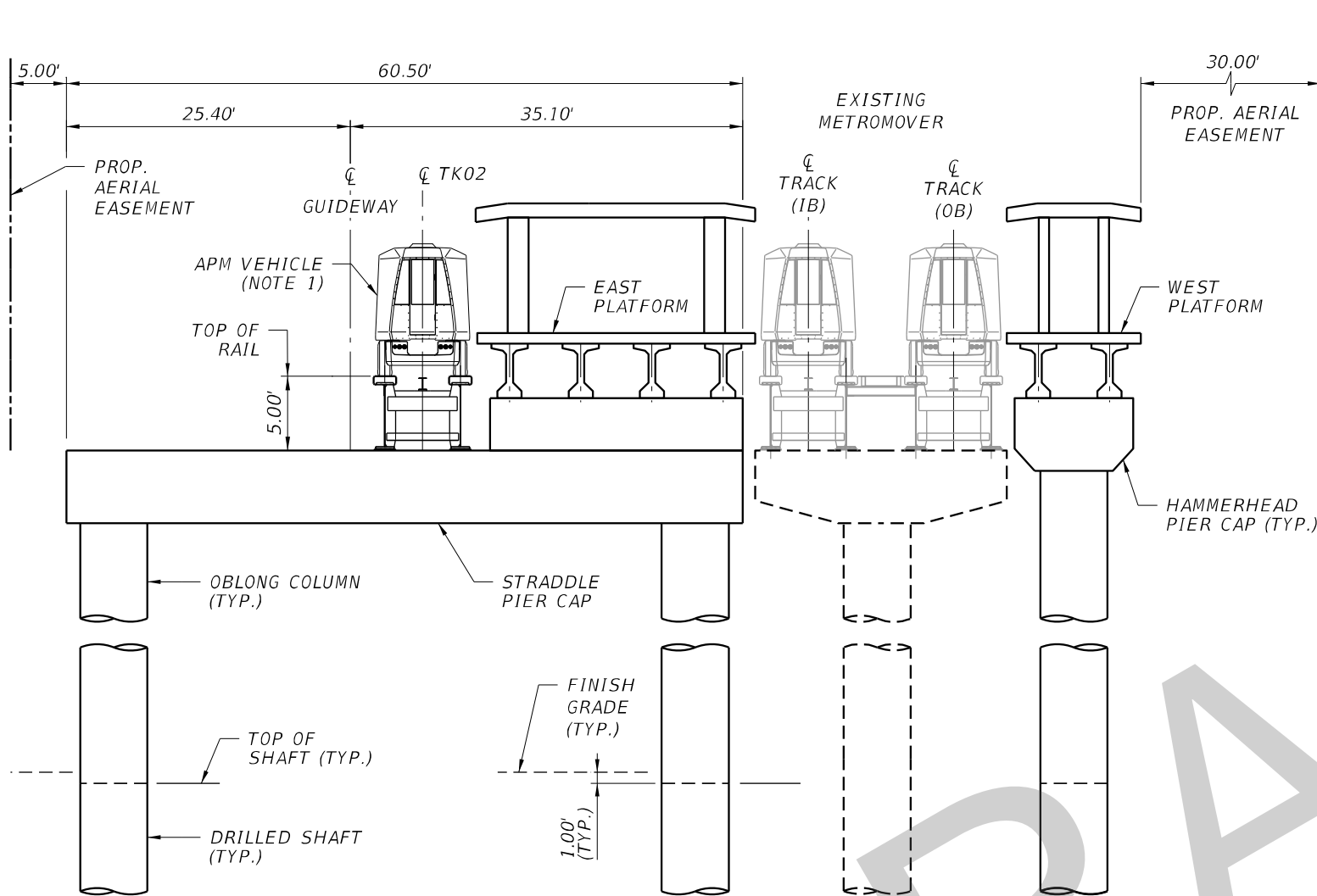
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	<div><div><div>MIAMI-DADE COUNTY</div><div></div></div><div>DTPW TRANSIT</div></div> <div>PEOPLE'S TRANSPORTATION PLAN</div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY MIAMI SEGMENT PLAN AND ELEVATION (2 OF 2)</div>	
				Drawn by PCU 08/20							
				Checked by STP 08/20							
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No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-082	SHEET NO.

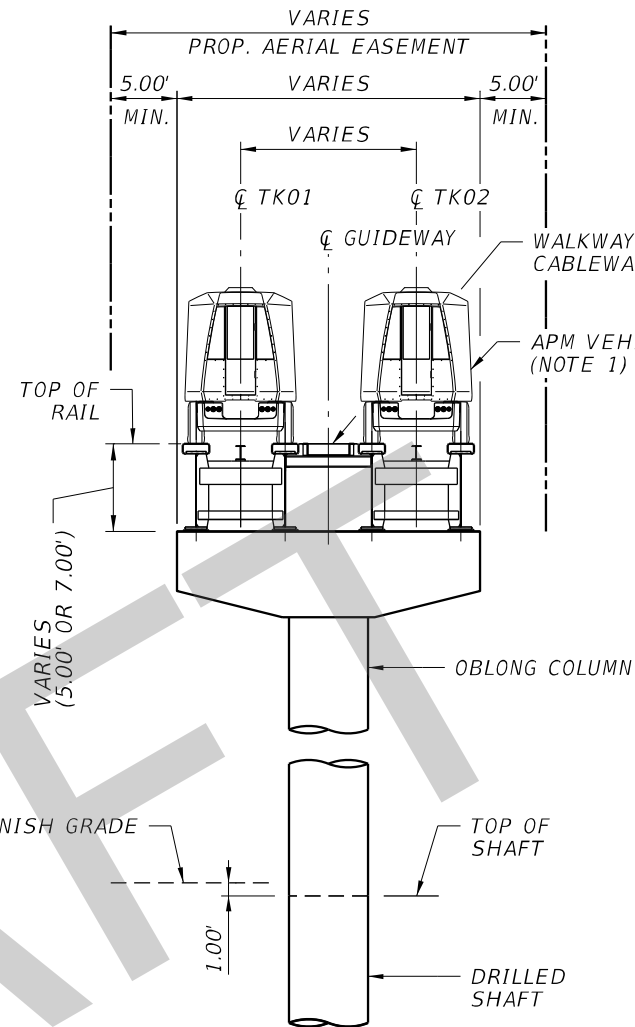
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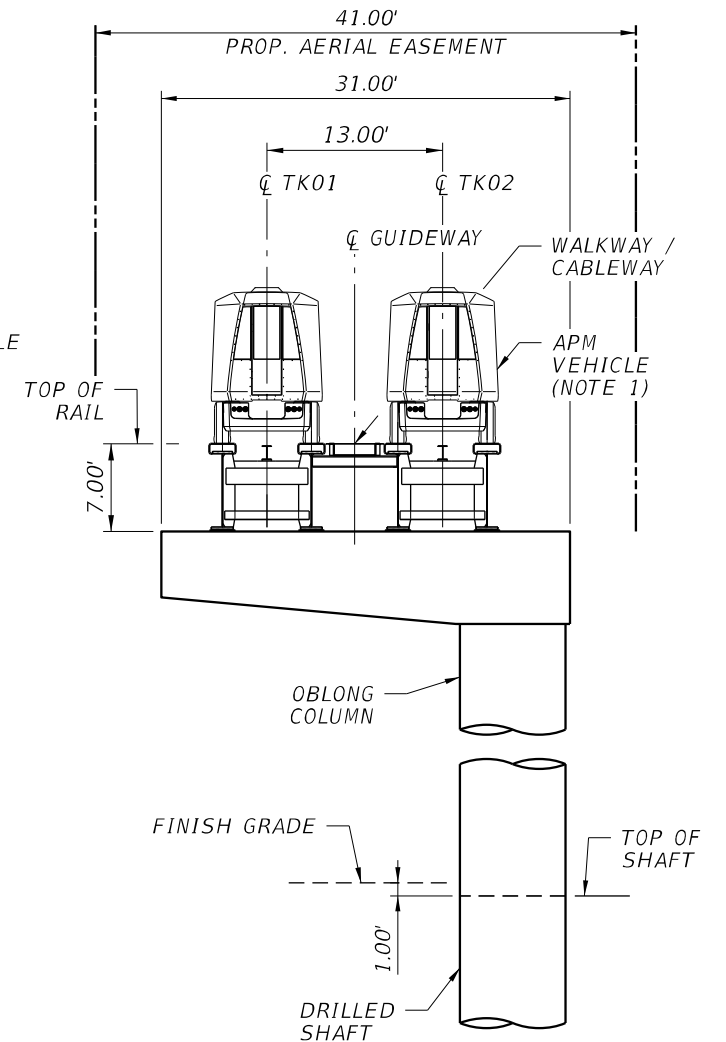
STRADDLE SECTION
(PIERS 1W & 2W SHOWN, PIER 3W SIMILAR)

PIER DATA TABLE			
PIER NO.	TYPE	COLUMN(S)	FOUNDATION(S)
1W - 3W	STRADDLE	6' X 4.5'	2~72" DS
4W	HAMMERHEAD	6' X 4.5'	1~72" DS
5W	HAMMERHEAD	7' X 4.5'	1~84" DS
6W	CANTILEVER	8' X 6'	1~96" DS

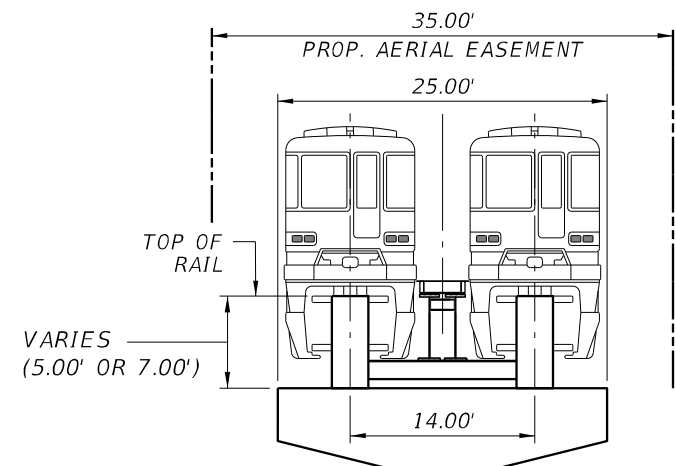
NOTE:
DS = DRILLED SHAFT



HAMMERHEAD SECTION
(PIERS 4W & 5W)



CANTILEVER SECTION
(PIER 6W)



MONORAIL VEHICLE ALTERNATE

NOTES:

1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE THIS SHEET FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
2. REFER TO PLAN & ELEVATION SHEETS FOR PLAN VIEW, STRUCTURE DEPTH, HORIZONTAL AND VERTICAL CLEARANCES.

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				Checked by STP 08/20
				DRAWING SCALE: AS SHOWN
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DTPW
TRANSIT

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153



7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 845-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE NO. 54072

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DATE

DRAWING TITLE:

BEACH CORRIDOR GUIDEWAY
MIAMI SEGMENT
TYPICAL SECTION

DRAWING NO.

W-083

SHEET NO.

p002234E

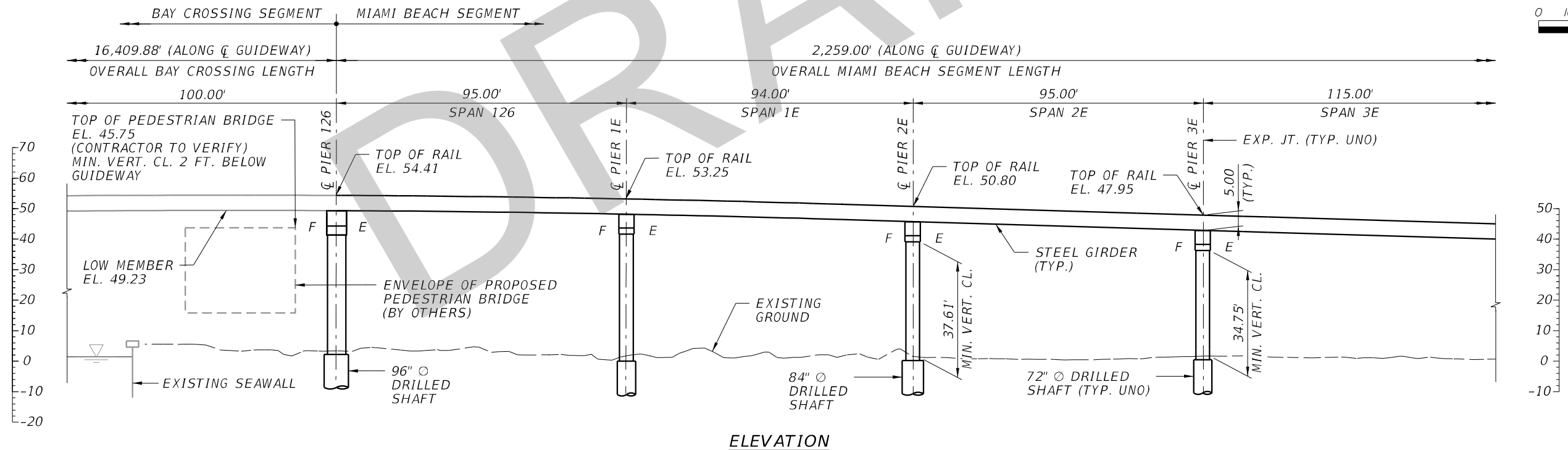
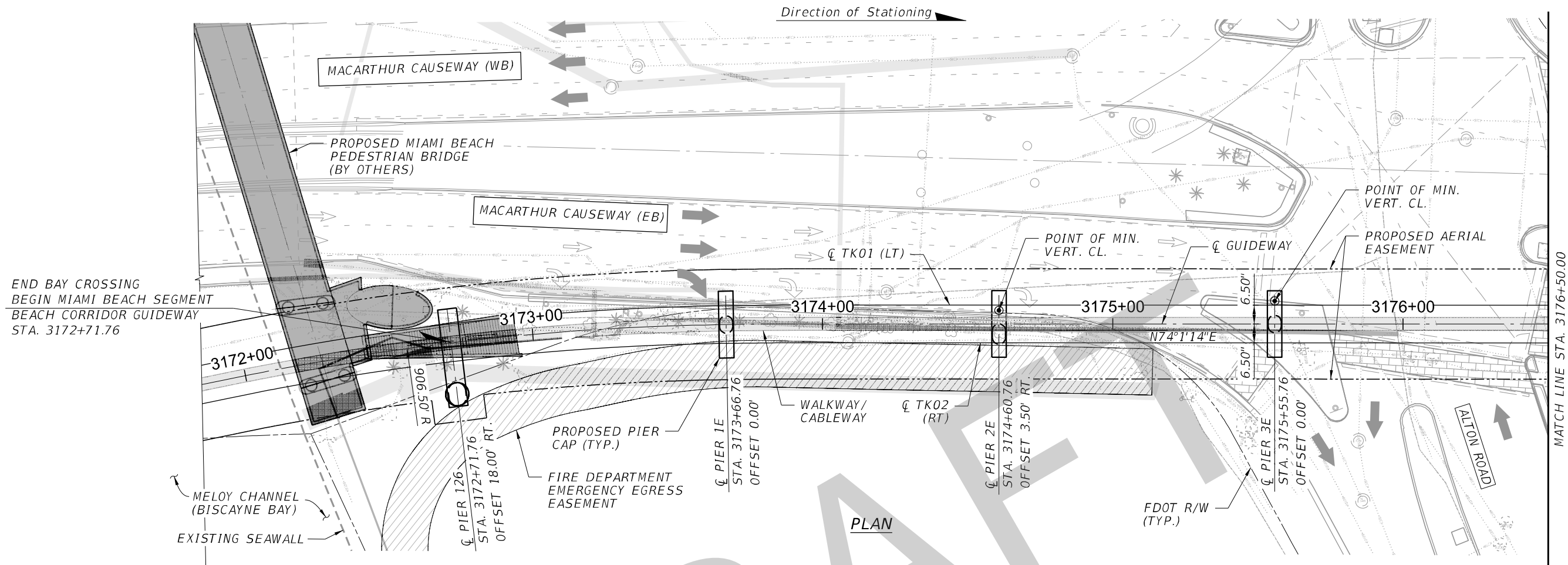
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	<div><div><div>MIAMI-DADE COUNTY</div><div>DTPW TRANSIT</div></div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: <div>BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT PLAN & ELEVATION (1 OF 5)</div>
				Drawn by PCU 08/20		<div><div><div>PARSONS</div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 864-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE NO. 54072</div></div></div>				
				Checked by STP 08/20						
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No.	Date	App.		Revisions						
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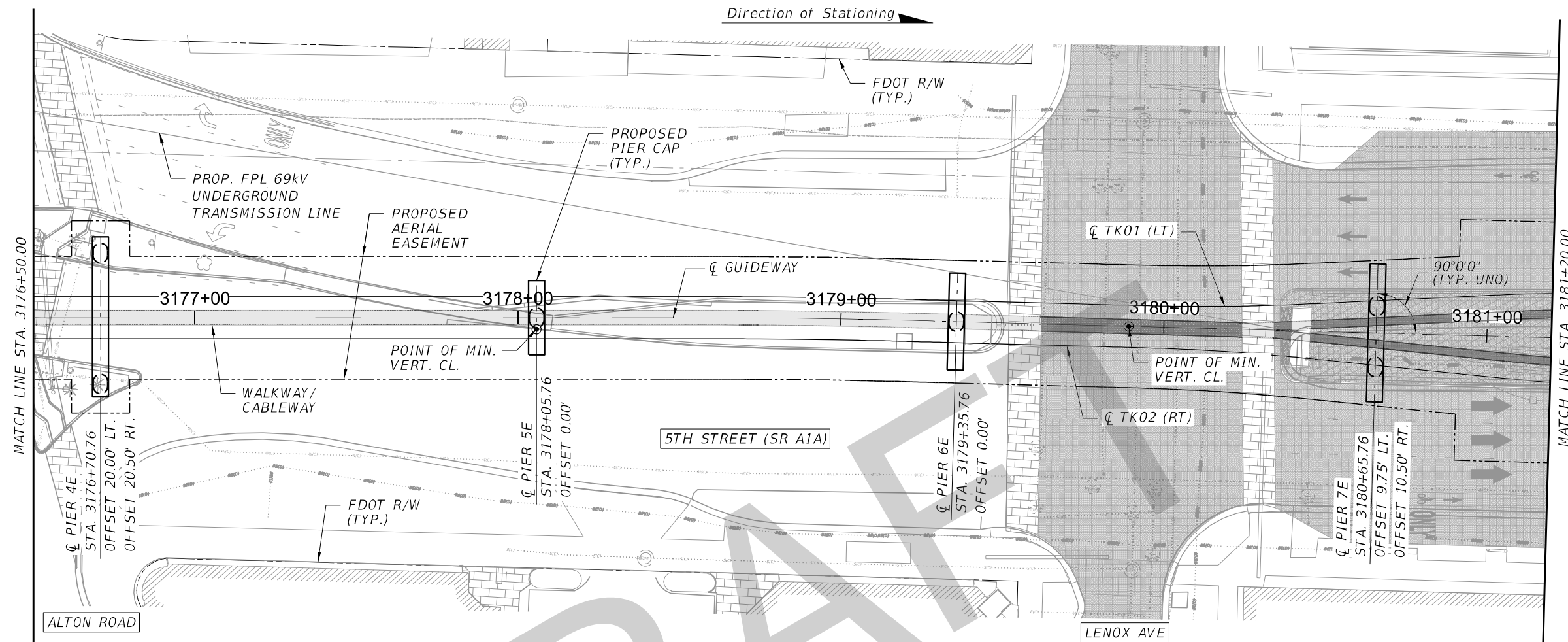
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9/15/2020

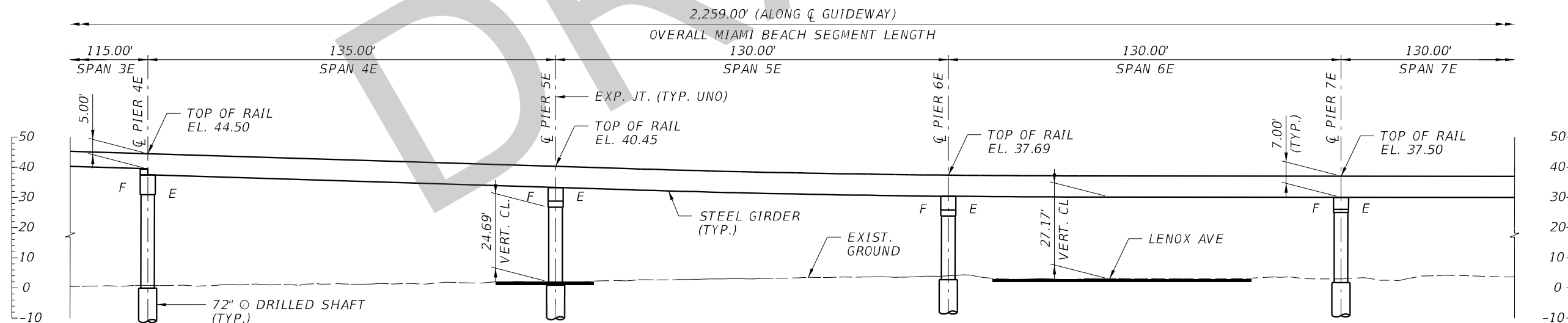
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PLAN

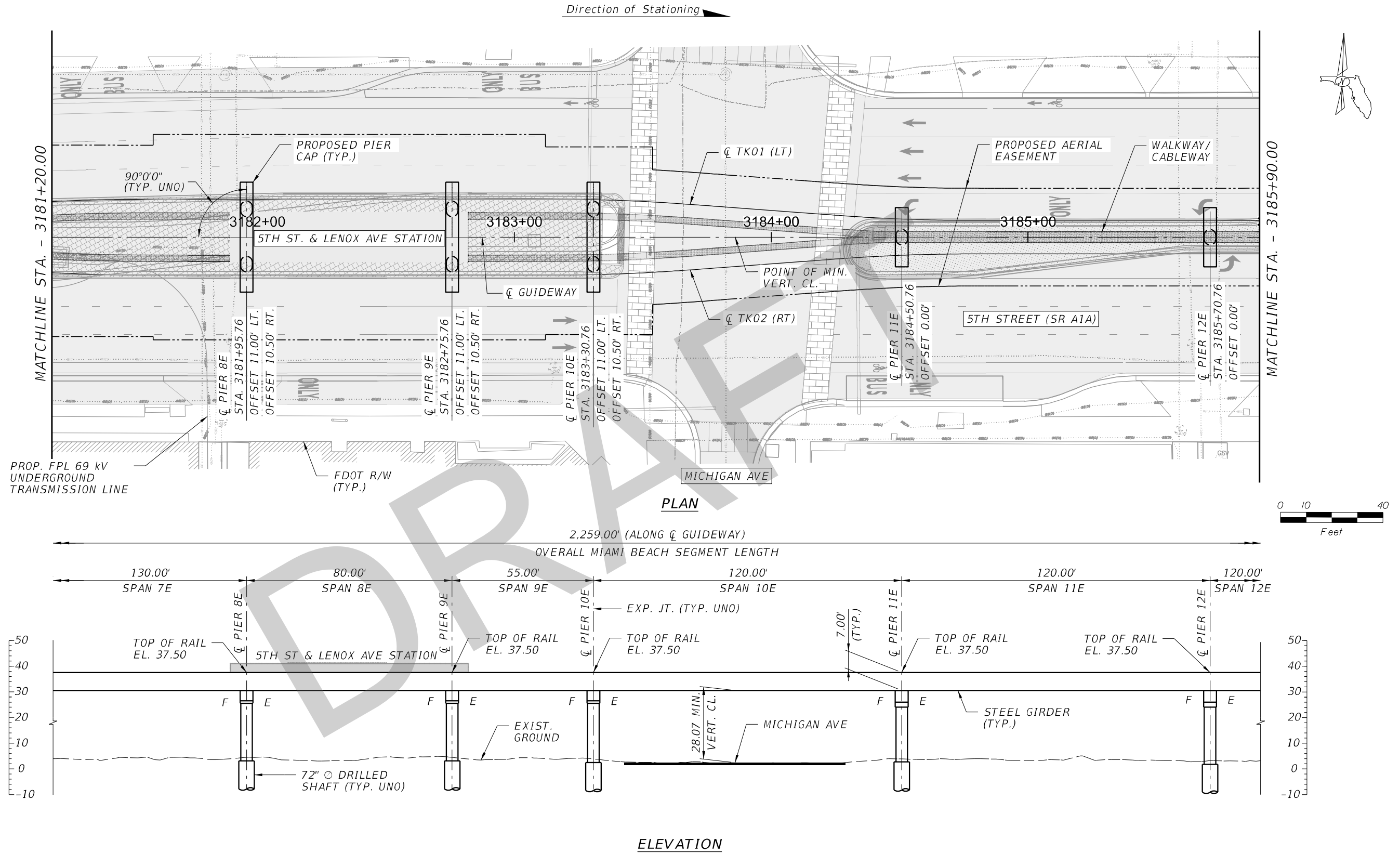


ELEVATION

NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL. GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	<div><div><div><div></div><div>MIAMI-DADE</div><div>COUNTY</div></div><div>DTPW TRANSIT</div></div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: <div>BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT PLAN & ELEVATION (2 OF 5)</div>	
				Drawn by PCU 08/20		<div><div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div></div></div>					
				Checked by STP 08/20							
				DRAWING SCALE: AS SHOWN							
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-091	SHEET NO.

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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON \bar{C} GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	<div><div><div><div>MIAMI-DADE</div><div>COUNTY</div></div><div><div></div><div>DTPW TRANSIT</div></div></div><div>PEOPLE'S TRANSPORTATION PLAN</div></div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT PLAN & ELEVATION (3 OF 5)</div> <div>DRAWING NO. W-092</div> <div>SHEET NO.</div>
				Drawn by PCU 08/20		<div><div><div></div><div>PARSONS</div></div><div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No 54072</div></div>				
				Checked by STP 08/20						
				DRAWING SCALE: AS SHOWN						
No.	Date	App.		Revisions		APPROVED	DATE	APPROVED	DATE	

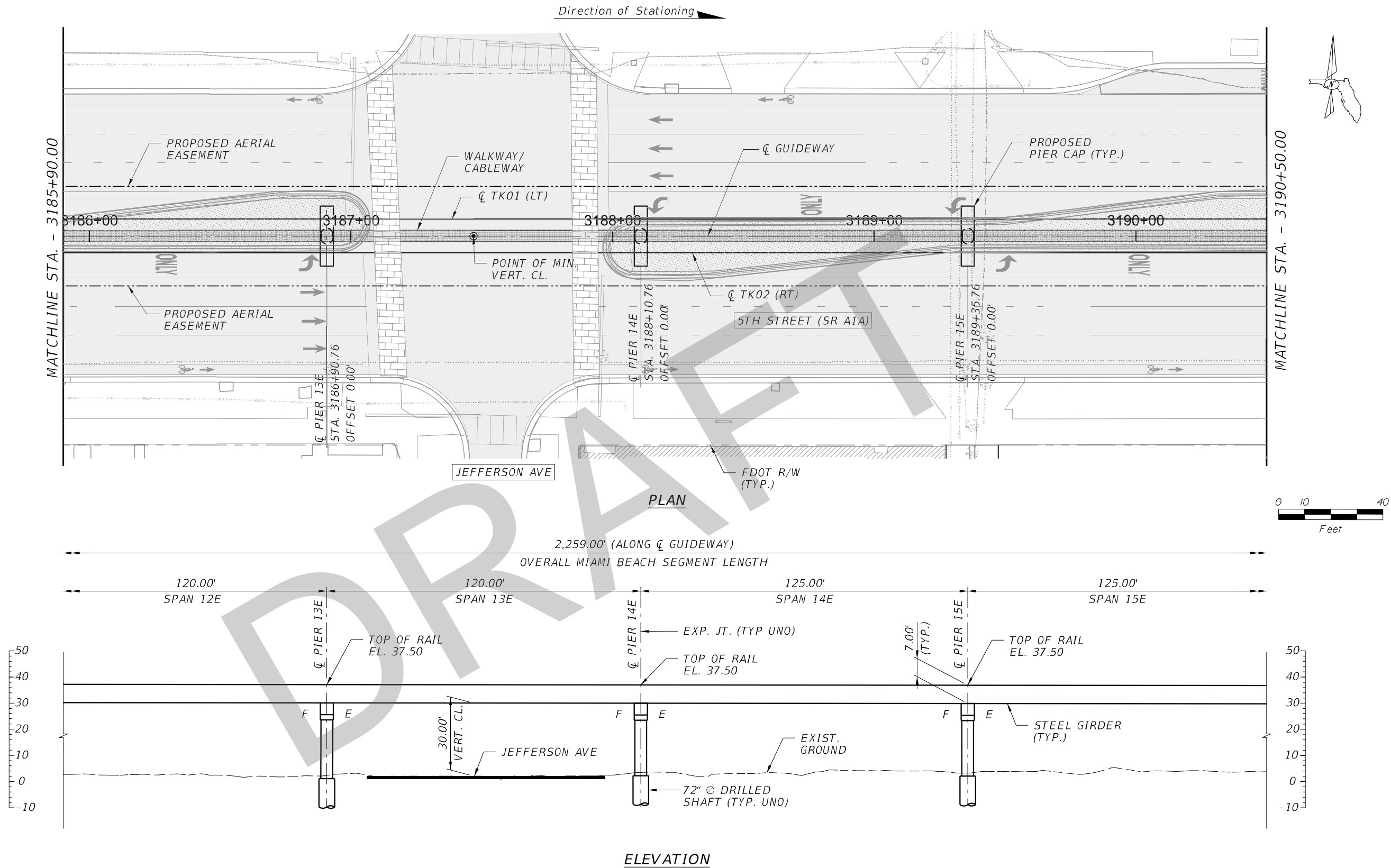
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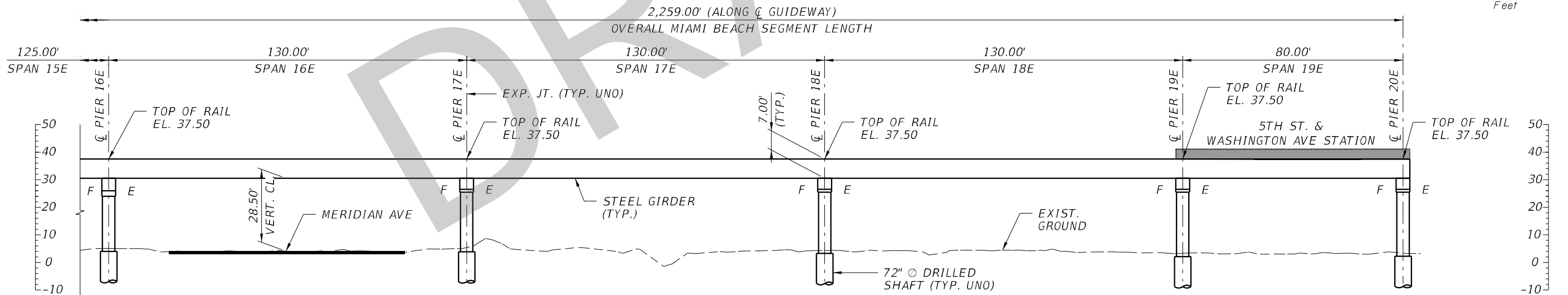
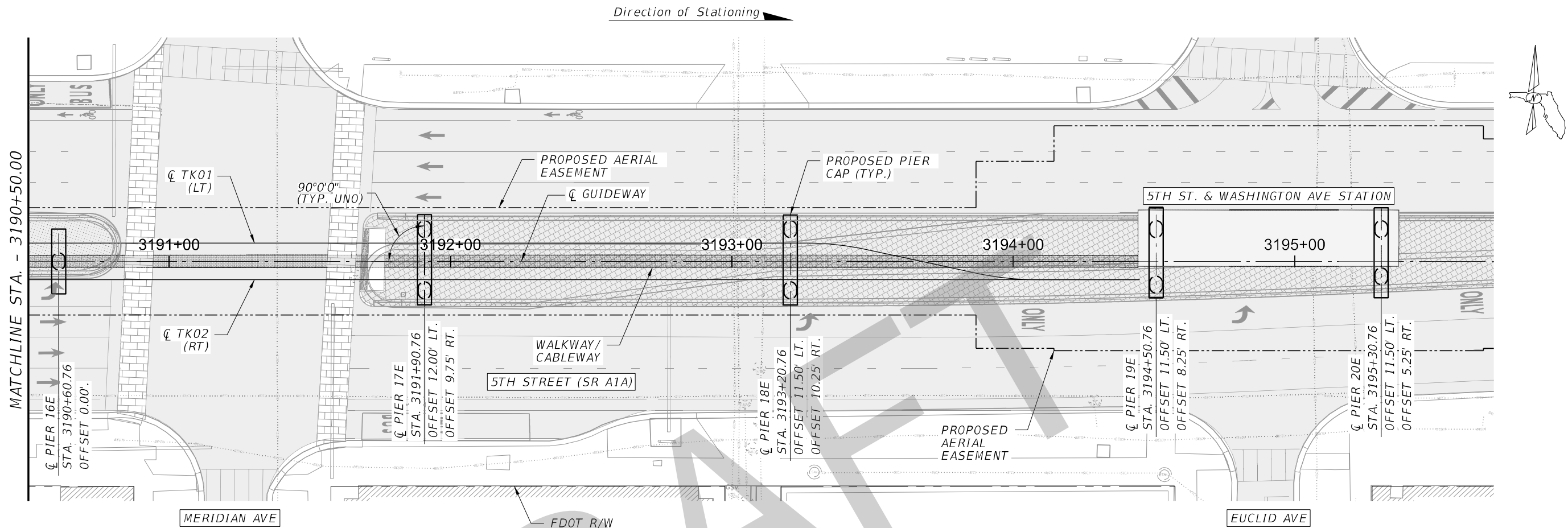
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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON CL GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by <i>RLH 08/20</i>	 MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				DRAWING TITLE: BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT PLAN & ELEVATION (4 OF 5)	
				Drawn by <i>PCU 08/20</i>		 PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072					
				Checked by <i>STP 08/20</i>							
				DRAWING SCALE: <i>AS SHOWN</i>							
No.	Date	App.	Revisions			APPROVED	DATE	APPROVED	DATE	DRAWING NO. W-093	SHEET NO.

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NOTES: 1. STATIONS & OFFSETS TO CENTER OF DRILLED SHAFT OR PIER COLUMN ARE BASED ON ϕ GUIDEWAY. 2. FOR ALIGNMENT AND PROFILE GEOMETRY DATA, REFER TO CIVIL PLANS.

				Designed by RLH 08/20	 MIAMI-DADE COUNTY PEOPLE'S TRANSPORTATION PLAN	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT PLAN & ELEVATION (5 OF 5)</div> <div>DRAWING NO. W-094 SHEET NO.</div>	
				Drawn by PCU 08/20		 PARSONS 7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No 54072					
				Checked by STP 08/20							
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No.	Date	App.	Revisions								
				APPROVED		DATE		APPROVED		DATE	

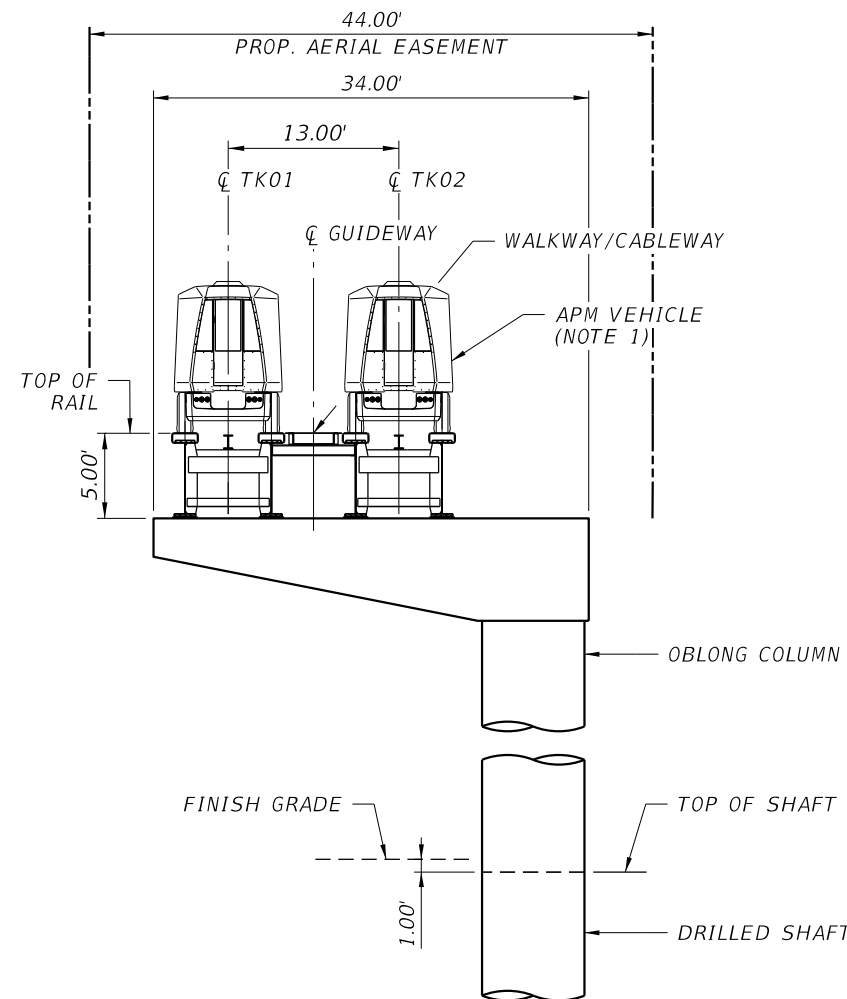
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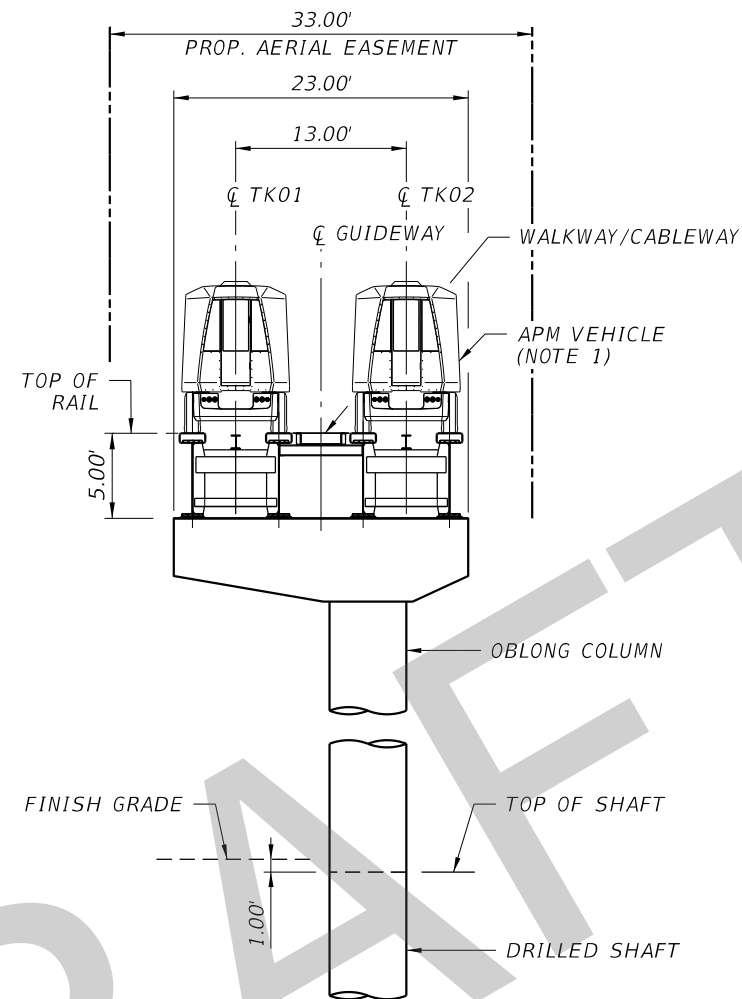
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CANTILEVER SECTION
(PIER 126)

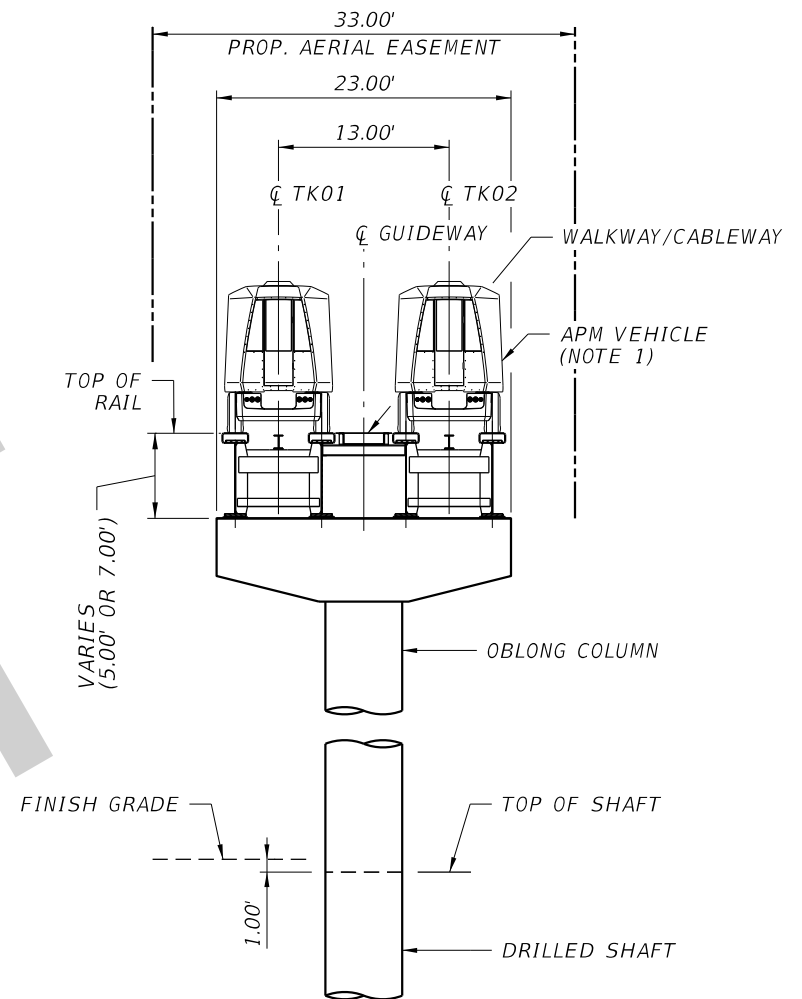
PIER DATA TABLE			
PIER NO.	TYPE	COLUMN(S)	FOUNDATION(S)
126	CANTILEVER	8' X 6'	1~96" DS
2E	CANTILEVER	7' X 4.5'	1~84" DS
4E	STRADDLE	6' X 4.5'	2~72" DS
1E, 3E, 5E, 6E, 11E - 16E	HAMMERHEAD	6' X 4.5'	1~72" DS
7E - 10E & 17E - 20E	MULTI-COLUMN	6' X 4.5'	2~72" DS

NOTE:
DS = DRILLED SHAFT

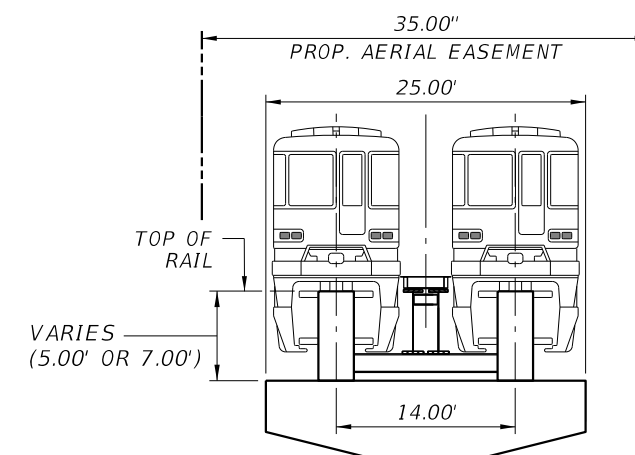


CANTILEVER SECTION
(PIER 2E)



- NOTES:
1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE THIS SHEET FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
 2. REFER TO PLAN & ELEVATION SHEETS FOR PLAN VIEW, STRUCTURE DEPTH, HORIZONTAL AND VERTICAL CLEARANCES.



TYPICAL HAMMERHEAD SECTION

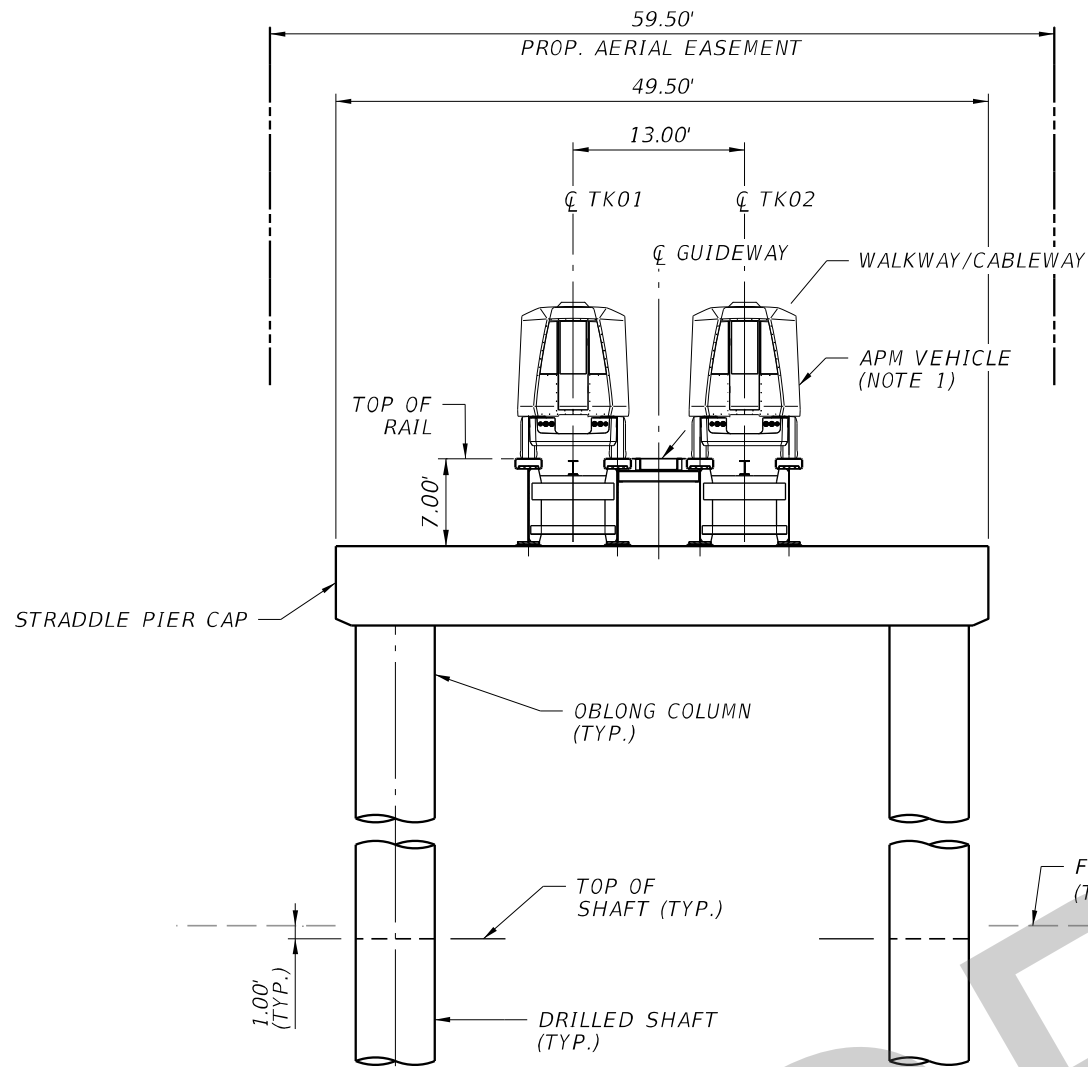


MONORAIL VEHICLE ALTERNATE

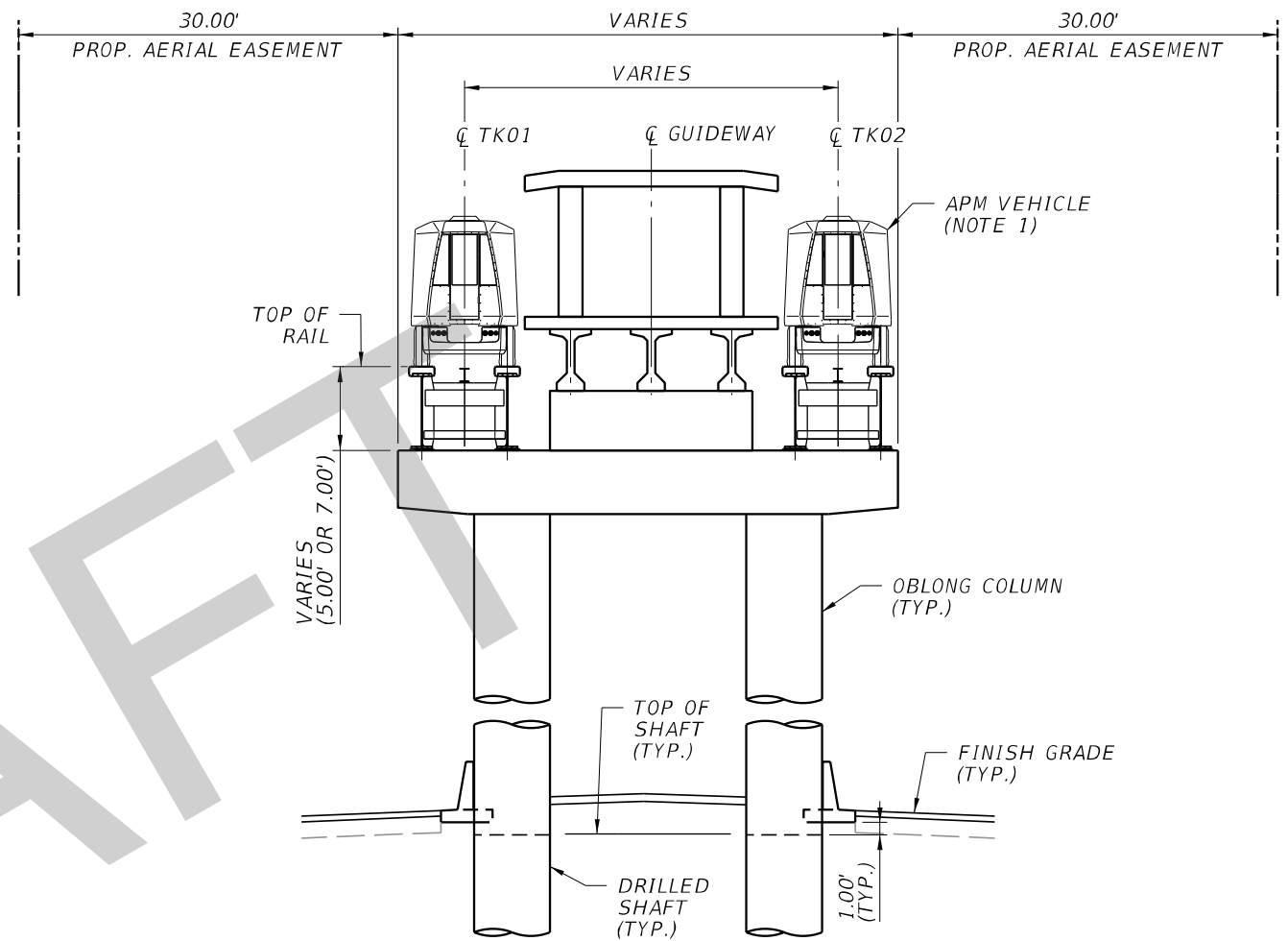
				Designed by <i>RLH 08/20</i>	<div>DTPW TRANSIT</div> <div>PEOPLE'S TRANSPORTATION PLAN</div>	BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153				<div>DRAWING TITLE: BEACH CORRIDOR GUIDEWAY MIAMI BEACH SEGMENT TYPICAL SECTION (1 OF 2)</div>			
				Drawn by <i>PCU 08/20</i>		<div>PARSONS</div> <div>7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126 PHONE: (786) 464-1000 FAX: (786) 845-7119 CERTIFICATE OF AUTHORIZATION NO. 1838 SAM T. PHAN, P.E. P.E. LICENSE No. 54072</div>							
				Checked by <i>STP 08/20</i>									
				DRAWING SCALE: <i>AS SHOWN</i>									
No.	Date	App.		Revisions				APPROVED	DATE	APPROVED	DATE		DRAWING NO. W-095

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STRADDLE SECTION
(PIER 4E)



TYPICAL MULTI-COLUMN SECTION
(PIER AT LENOX AVE. STATION
SHOWN, OTHERS SIMILAR)

NOTES:

1. APM VEHICLE WITH STEEL PLATE GIRDERS SHOWN. SEE SHEET 1 OF 2 FOR MONORAIL VEHICLE WITH BOX GIRDERS AS ALTERNATE.
2. REFER TO PLAN & ELEVATION SHEETS FOR PLAN VIEW, STRUCTURE DEPTH, HORIZONTAL AND VERTICAL CLEARANCES.
3. REFER TO PIER DATA TABLE ON SHEET 1 OF 2 FOR PIER TYPE, COLUMN DIMENSIONS, AND FOUNDATION SIZE.

				Designed by RLH 08/20
				Drawn by PCU 08/20
				Checked by STP 08/20
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DTPW
TRANSIT

PEOPLE'S TRANSPORTATION PLAN

BEACH CORRIDOR RAPID TRANSIT PD & E - CIP # 153



7600 CORPORATE CENTER DRIVE, SUITE 104, MIAMI, FL 33126
PHONE: (786) 464-1000 FAX: (786) 945-7119
CERTIFICATE OF AUTHORIZATION NO. 1838
SAM T. PHAN, P.E. P.E. LICENSE NO. 54072

APPROVED	DATE	APPROVED	DATE
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DRAWING TITLE:

**BEACH CORRIDOR GUIDEWAY
MIAMI BEACH SEGMENT
TYPICAL SECTION (2 OF 2)**

DRAWING NO.

W-096

SHEET NO.

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