

Long Bridge Corridor Preferred Alternative

OPERATOR SIGN-OFF PACKAGE

DATE: 8/13/2020

TASK DESCRIPTION:

GRANT NUMBER: FR-TII-0036-16-01-00

OPERATOR SIGN-OFF PACKAGE CONTENTS:

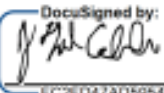
- 1) 5/5/2020 ENGINEERING PROGRESS PLANS
- 2) 5/5/2020 BASIS OF DESIGN REPORT (UNDER SEPARATE COVER)
- 3) 5/5/2020 RESPONSE TO OPERATOR COMMENTS MATRIX (UNDER SEPARATE COVER)

This Operators’ Sign-off Package is a draft document, pending FRA concurrence after selection of an alternative in the Record of Decision (ROD), which is anticipated in summer 2020.

These plans represent a 15% level of design for the project and have been reviewed by the parties listed on this cover sheet. Further engineering, collaboration, and coordination with all parties will be required prior to completion of Preliminary Engineering (30% level of design) to further address comments received from operators during this phase of the project. By signing this document, the parties agree that the project is acceptable in concept and can move forward to complete Preliminary Engineering.




Host Railroad/CSX Transportation (CSXT)

Signed: 
Printed: J. Tod Echler
Title: Chief Engineer Design & Construction
Date: 5/7/2020




Virginia Railroad Express (VRE)

Signed: 
Printed: Rich Dalton
Title: Acting Chief Executive Officer
Date: 5/12/2020




The National Railroad Passenger Corporation (Amtrak)

Signed: 
Printed: Byron S. Comati
Title: VP Corporate Planning
Date: 5/6/2020




District Department of Transportation (DDOT)

Signed: 
Printed: Dawit Muluneh
Title: Chief Engineer
Date: 5/14/2020



Federal Railroad Administration (FRA)

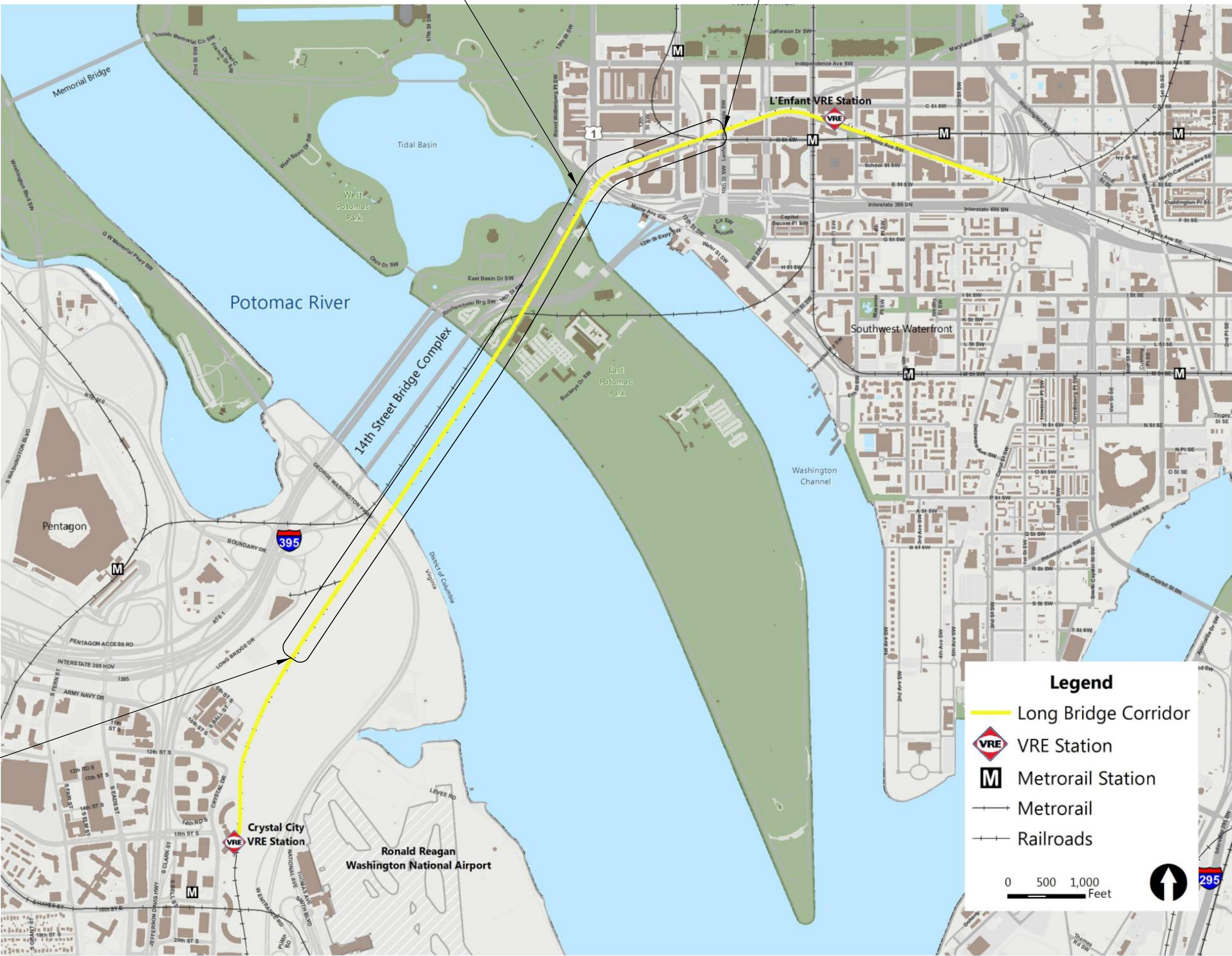
Signed: 
Printed: Richard Cogswell
Title: Senior General Engineer
Date: 8/13/2020

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
PLANS OF PROPOSED
ENGINEERING PROGRESS PLANS
LONG BRIDGE CORRIDOR
PREFERRED ALTERNATIVE

LONG BRIDGE PROJECT LIMITS

399+00 END PROJECT MP 111.45

325+75
BEGIN PROJECT
MP 110.00



KEY MAP

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
COVER SHEET

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE _____
SHEET 1 OF 53



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		G-002	53

[illegible]

NOTES:


1. THE PREFERRED ALTERNATIVE INCLUDES CONSTRUCTION OF A NEW TWO-TRACK BRIDGE UPSTREAM OF THE EXISTING LONG BRIDGE. THE EXISTING TWO-TRACK LONG BRIDGE WOULD BE RETAINED TO CREATE A FOUR-TRACK CROSSING.
2. DESIGN IS BASED ON PROJECT AERIAL MAPPING, DISTRICT-PROVIDED AERIAL LIDAR, DISTRICT-PROVIDED RIGHT-OF-WAY GIS FILES, AND AS-BUILT DRAWINGS IN PDF FORMAT. FINAL DESIGN REQUIRES ADDITIONAL SURVEY, RIGHT-OF-WAY RESEARCH, AND MAPPING.
3. THE PROJECT LIMITS ARE FROM THE NORTH END OF THE "RO" INTERLOCKING NEAR LONG BRIDGE PARK IN ARLINGTON, VA AND SOUTH END OF THE "L'ENFANT NORTH" (LE) INTERLOCKING NEAR L'ENFANT PLAZA IN THE DISTRICT OF COLUMBIA.
4. THESE DRAWINGS DEPICT THE ALIGNMENT, PROFILES, TYPICAL SECTIONS, AND CONSTRUCTION PHASING OF THE PREFERRED ALTERNATIVE BETWEEN "RO" INTERLOCKING AND "LE NORTH" INTERLOCKING.
5. DETAILS FOR A BIKE-PEDESTRIAN BRIDGE ACROSS THE MAIN RIVER ARE BEING DEVELOPED IN PARALLEL WITH THE PE PROGRESS PLANS FOR THE RAILROAD CORRIDOR AND ARE ATTACHED TO THIS PLAN SET. THE PREFERRED ALTERNATIVE FOR THE BIKE-PEDESTRIAN BRIDGE IS AN UPSTREAM INDEPENDENT CROSSING.

CSXT NOTES:

1. CSXT OWNS, OPERATES, AND MAINTAINS THE TRACKS WITHIN THE EXISTING LONG BRIDGE CORRIDOR.
2. ALL WORK WITHIN THE CORRIDOR IS TO BE COORDINATED WITH CSXT. ANY OUTAGES SHALL BE MINIMIZED TO MAINTAIN TWO TRACKS IN OPERATION THROUGHOUT THE DURATION OF THE PROJECT, UNLESS OTHERWISE APPROVED BY CSXT.
3. AT NO POINT SHALL ANY CONSTRUCTION OCCUR WITHIN CSXT ROW WITHOUT EXPLICIT PERMISSION FROM CSXT. ALL APPROPRIATE PERMITS AND PERMISSIONS SHALL BE OBTAINED BEFORE CONSTRUCTION OF THE PROJECT.
4. ALL LOCATIONS WHERE A BRIDGE OR RETAINING STRUCTURE IS LOCATED WITHIN 25-FT FROM THE CENTER OF THE RAILROAD TRACKS SHALL BE DESIGNED TO MEET CRASH LOADING REQUIREMENTS PER AREMA STANDARDS.
5. PROPOSED TRACKS IN THE VICINITY OF MARYLAND AVENUE TO THE L' ENFANT INTERLOCKING SHALL HAVE A MINIMUM OF 14-FT TRACK CENTERS AND 7.5-FT LATERAL CLEARANCE (CONSIDERED SUBSTANDARD LATERAL CLEARANCE). ALL OTHER LOCATIONS SHALL MAINTAIN A MINIMUM LATERAL CLEARANCE AND SPACING PER CSXT STANDARDS, INCLUDING A MINIMUM OF 15-FT TRACK CENTERS.
6. THERE ARE A NUMBER OF SAFETY-RELATED ITEMS THAT ARE TO BE ADDRESSED IN THE VICINITY OF THE SUBSTANDARD LATERAL CLEARANCE LOCATION, INCLUDING BUT NOT LIMITED TO:
 - A. FRICTION MODIFIERS AND GAUGE-FACE LUBRICATION SHALL BE INSTALLED ON ALL TRACKS APPROACHING THE SUBSTANDARD LATERAL CLEARANCE AREA TO MITIGATE RAIL WEAR, NOISE, AND VIBRATION.
 - B. AUTOMATIC RAILROAD CLEARANCE DETECTORS SHALL BE INSTALLED IN ADVANCE OF THE SUBSTANDARD LATERAL CLEARANCE AREA.
 - C. LIGHTED AND PROMINENT SIGNS SHALL BE INSTALLED INDICATING THE REDUCED LATERAL CLEARANCE AT THE APPROACHES.
 - D. ADDITIONAL SAFETY AND SECURITY LIGHTING SHALL BE INSTALLED INSIDE ALL OPENINGS UNDER MARYLAND AVENUE AND ANY OTHER STRUCTURES WHERE THERE IS SUBSTANDARD LATERAL CLEARANCES.
 - E. ENHANCED SECURITY FENCING SHALL BE INSTALLED ALONG THE TRACK.
 - F. THE EXISTING MARYLAND AVENUE OVERBUILD SHALL BE ANALYZED, VERIFIED, AND CERTIFIED THAT IT MEETS THE CRASH WORTHINESS BASED ON CRITERIA SET-FORTH FROM THE MOST STRINGENT REQUIREMENTS OF DDOT, CSXT, AREMA, AND FHWA SPECIFICATIONS.

PROGRESS PLANS

MAY 5, 2020

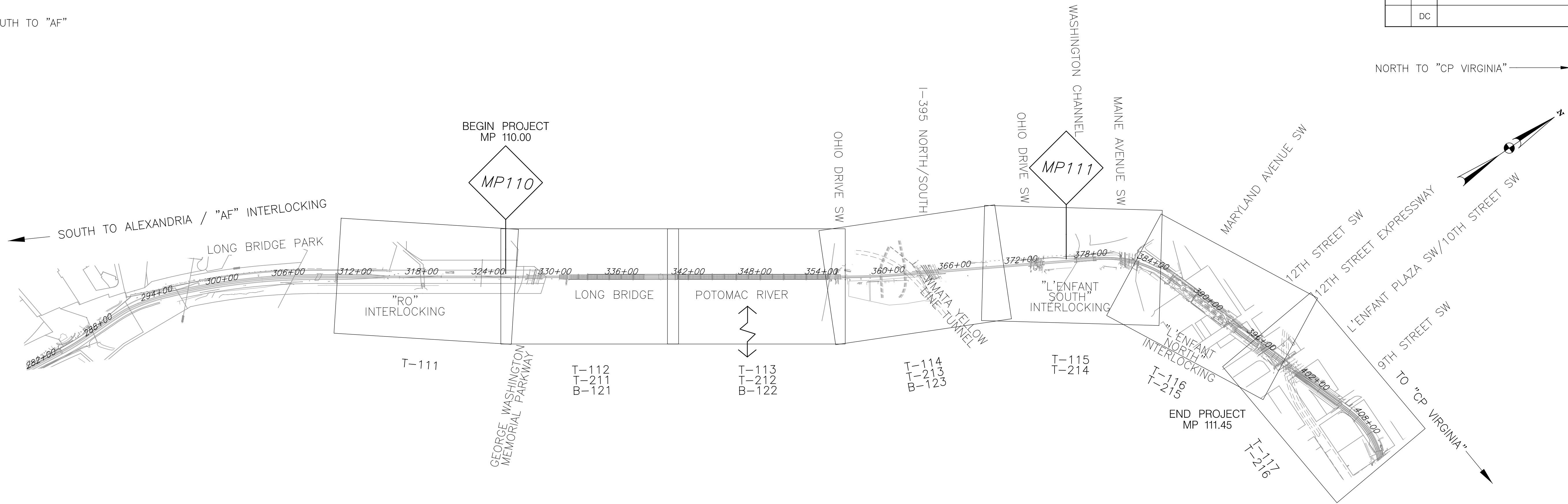
			
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

<p align="center">D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION</p>	
<p align="center">LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE</p>	<p>PROJECT ENG. _____</p> <p>DESIGNED BY: <u>VHB</u></p> <p>CHECKED BY: <u>VHB</u></p> <p>DRAWN BY: <u>VHB</u></p> <p>PROJECT MGR. _____</p>
<p align="center">"RO" TO "L'ENFANT" INDEX SHEET</p>	<p align="center">DIVISION CHIEF _____</p> <p>DATE: <u>5/5/2020</u></p> <p>FILE: _____</p> <p>SHEET 2 OF 53</p>

PRELIMINARY - NOT FOR CONSTRUCTION

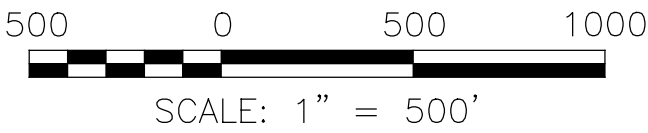
← SOUTH TO "AF"

NORTH TO "CP VIRGINIA" →



LONG BRIDGE UNDERGRADE BRIDGE IMPACTS	MINIMUM VERTICAL CLEARANCE		
	EXISTING	PROPOSED	DIFFERENCE
GEORGE WASHINGTON MEMORIAL PARKWAY*	12'-5"	14'-6"	2'-1" INCREASE
OHIO DRIVE SW*	12'-6"	14'-6"	2'-0" INCREASE
I-395	13'-10	16'-0"	2'-2" INCREASE
OHIO DRIVE SW	12'-6"	12'-6"	MATCH EXISTING
MAINE AVENUE SW	14'-0"	14'-0"	MATCH EXISTING

*EXISTING BRIDGE TO REMAIN IN SERVICE AND CONTROLS VERTICAL CLEARANCE AT THESE LOCATIONS.



PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
KEY PLAN

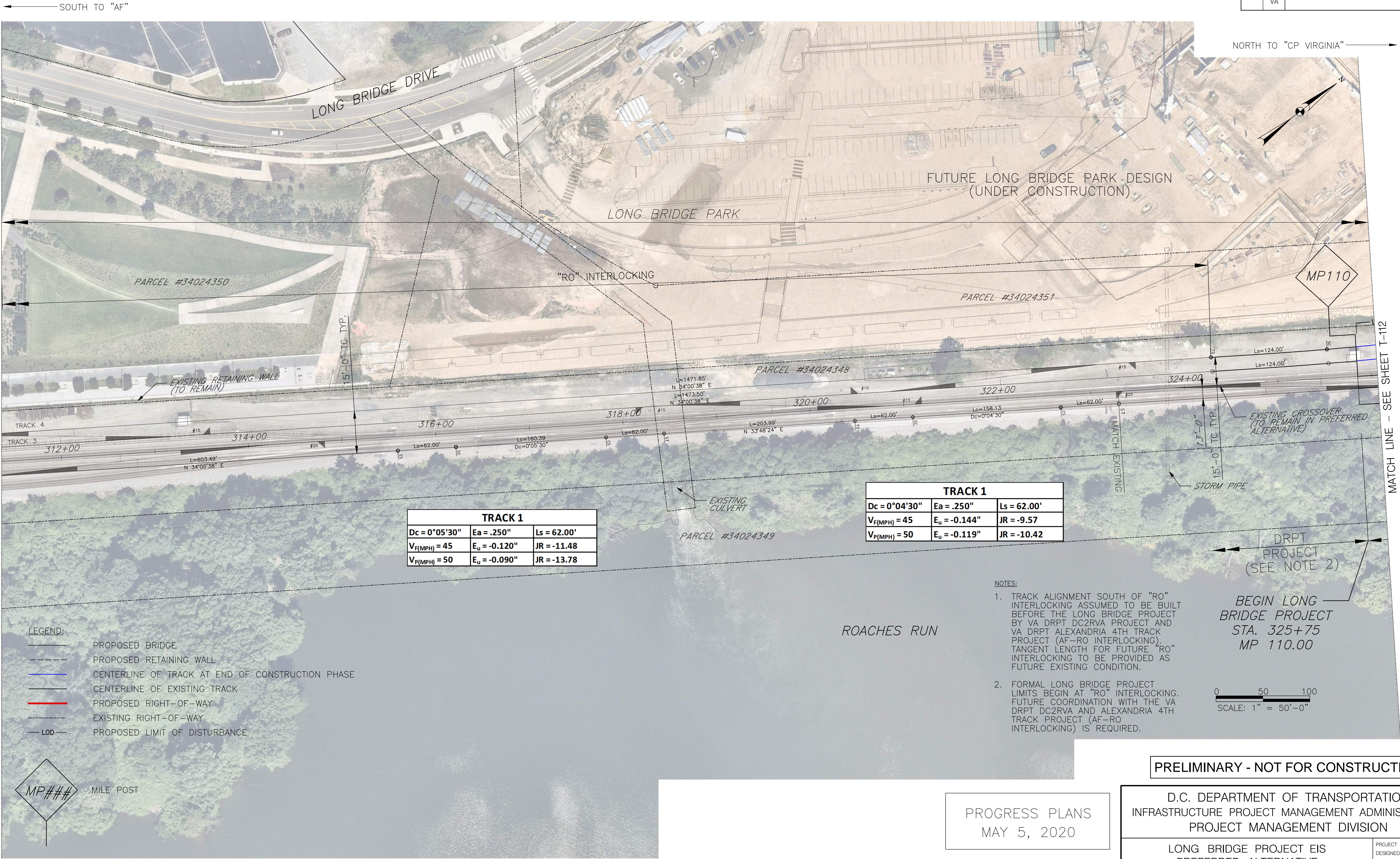
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DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

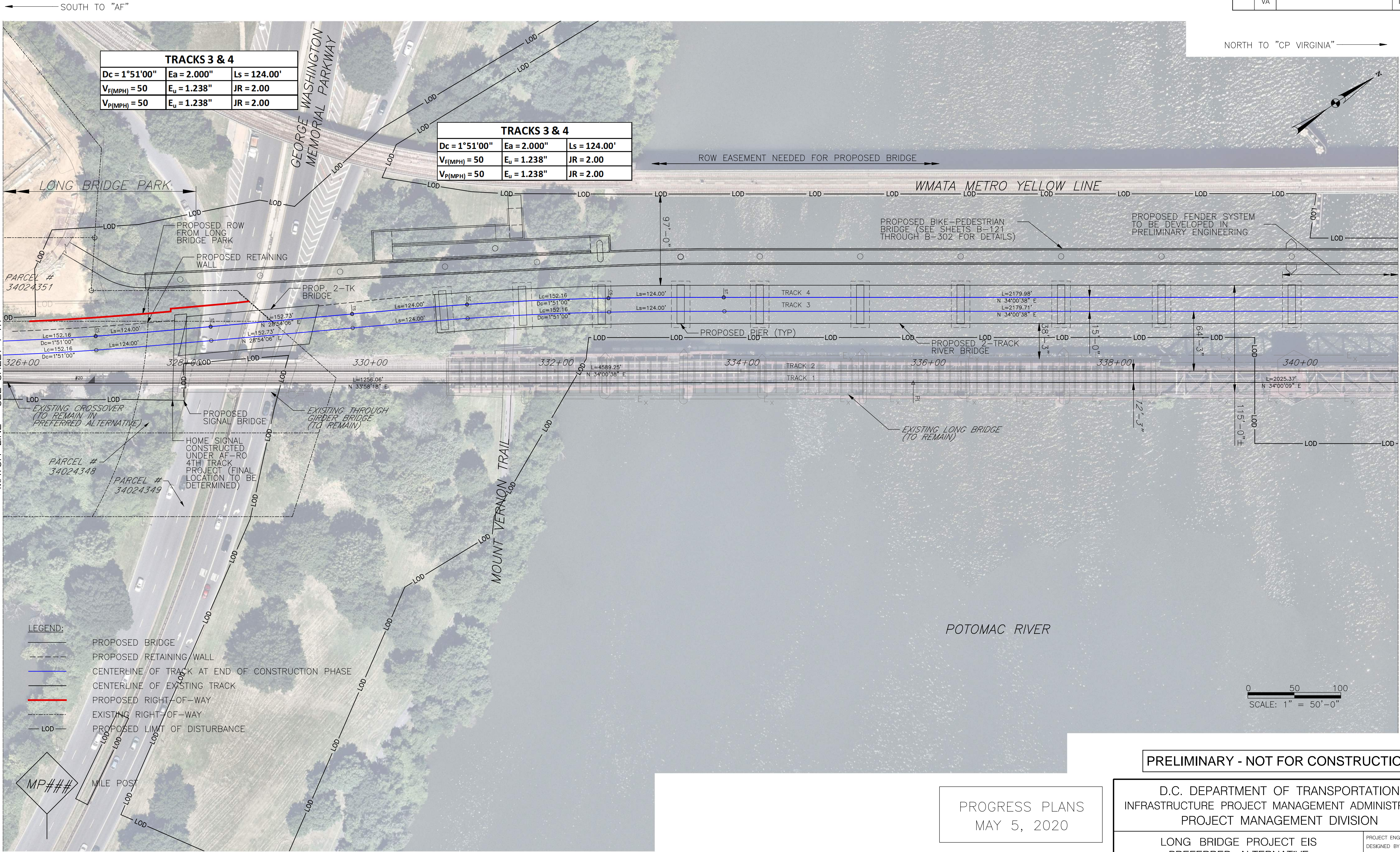
DIVISION CHIEF

DATE 5/5/2020
FILE _____
SHEET 3 OF 53



NO.	DESCRIPTION	NAME	DATE
REVISIONS			





PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TRACK ALIGNMENT (2 OF 7)

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

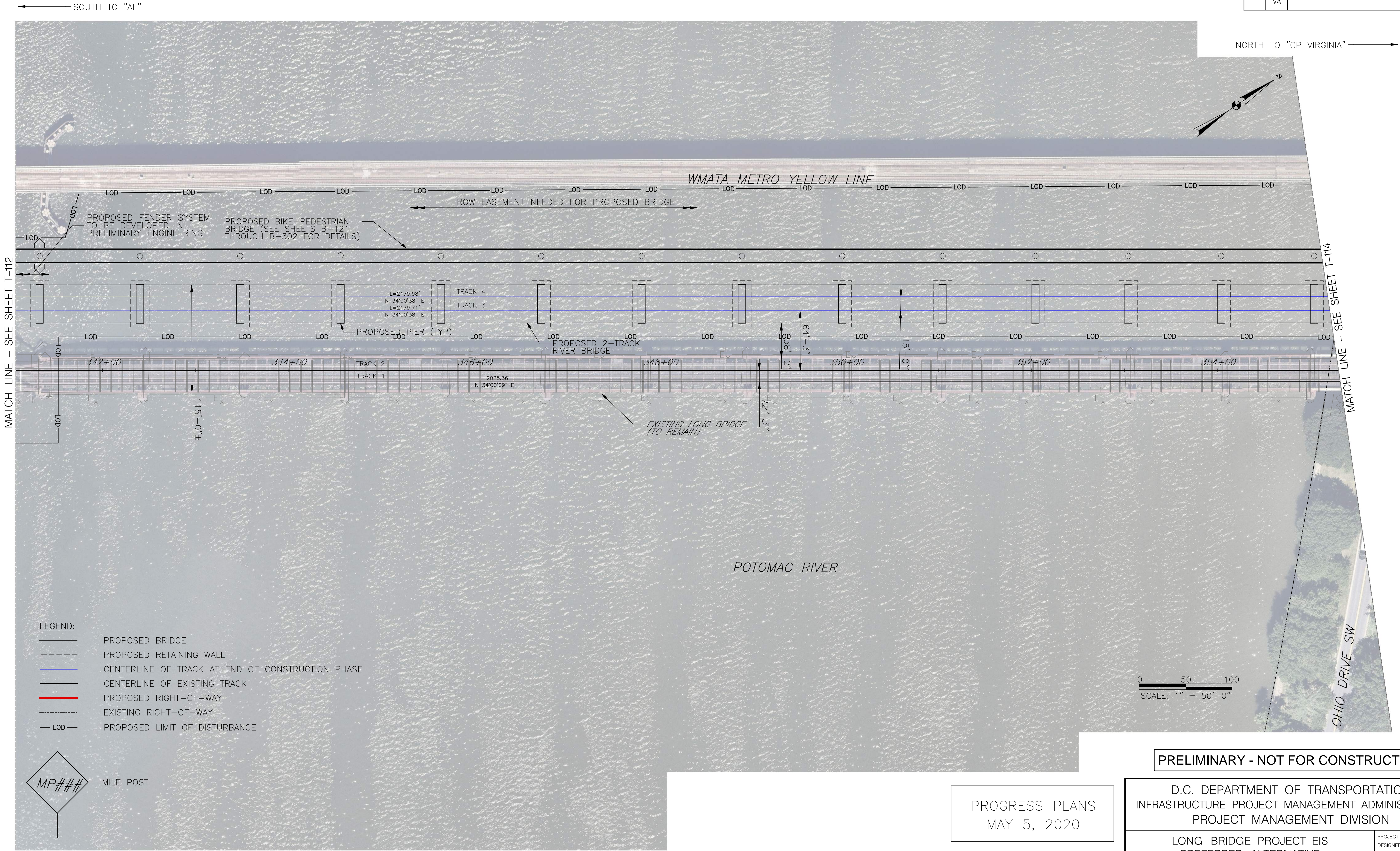
DATE 5/5/2020

FILE

SHEET 5 OF 53



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



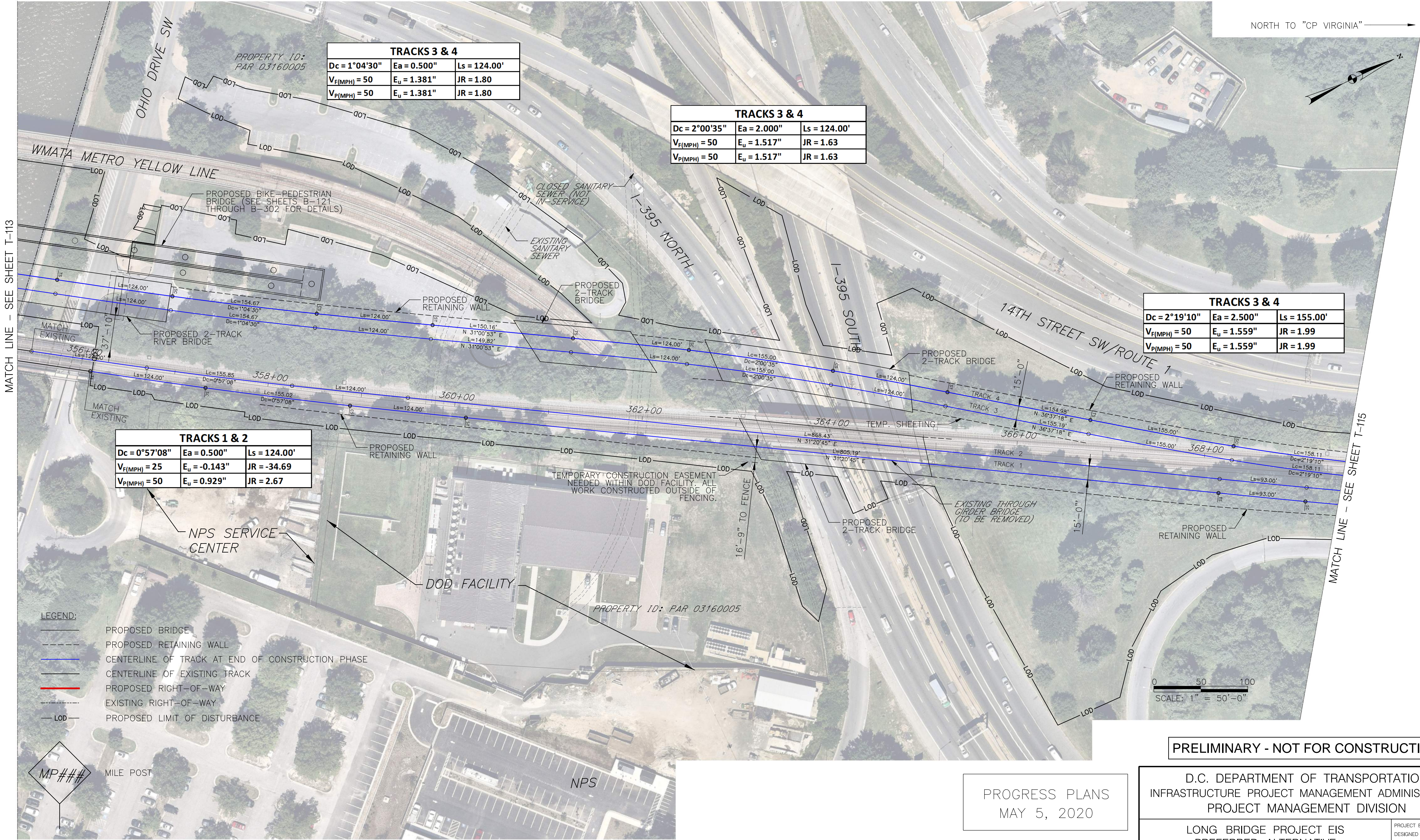
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY VHB CHECKED BY VHB DRAWN BY VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TRACK ALIGNMENT (3 OF 7)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 6 OF 53

			
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

SOUTH TO "AF"

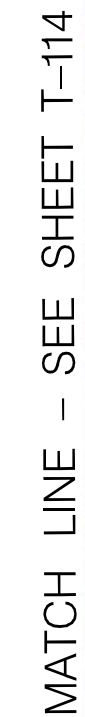
NORTH TO "CP VIRGINIA"



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5/5/2020

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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TRACK ALIGNMENT (5 OF 7)

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020

FILE _____

SHEET 8 OF 53

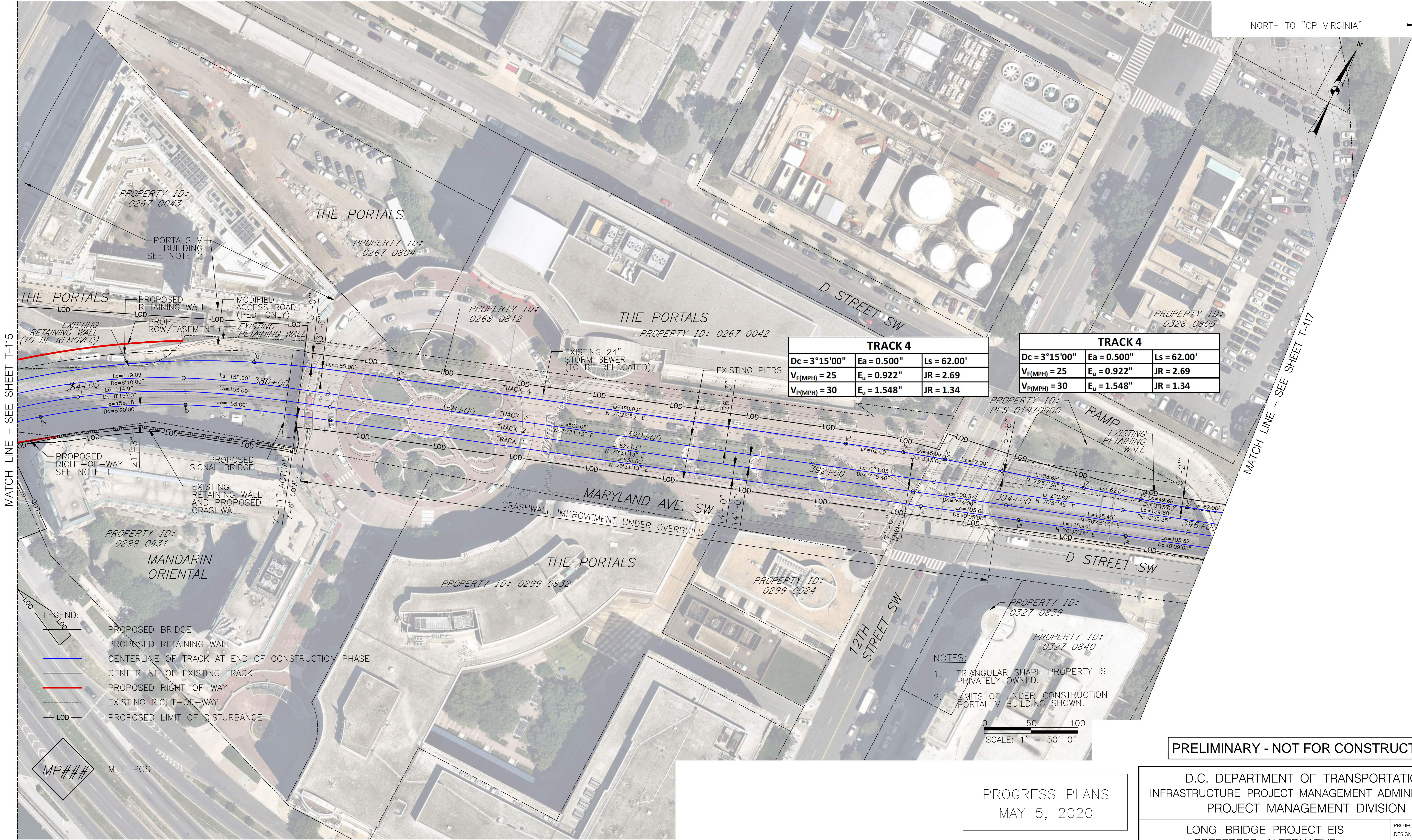
PROGRESS PLANS
MAY 5, 2020



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

SOUTH TO "AF"

NORTH TO "CP VIRGINIA"



MATCH LINE - SEE SHEET T-115

MATCH LINE - SEE SHEET T-117

TRACK 4		
Dc = 3°15'00"	Ea = 0.500"	Ls = 62.00'
Vf(MPH) = 25	Eu = 0.922"	JR = 2.69
Vp(MPH) = 30	Eu = 1.548"	JR = 1.34

TRACK 4		
Dc = 3°15'00"	Ea = 0.500"	Ls = 62.00'
Vf(MPH) = 25	Eu = 0.922"	JR = 2.69
Vp(MPH) = 30	Eu = 1.548"	JR = 1.34

- NOTES:
1. TRIANGULAR SHAPE PROPERTY IS PRIVATELY OWNED.
 2. LIMITS OF UNDER-CONSTRUCTION PORTAL V BUILDING SHOWN.

0 50 100
SCALE: 1" = 50'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TRACK ALIGNMENT (6 OF 7)

PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF
DATE 5/5/2020
FILE
SHEET 9 OF 53



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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5/5/2020

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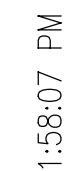


D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF _____
DATE 5/5/2020
FILE _____
SHEET 10 OF 53





5/5/2020

TRACKS 1 & 2 OVER POTOMAC RIVER:
FREIGHT SPEED = 25 MPH
PASSENGER SPEED = 45 MPH

PRELIMINARY - NOT FOR CONSTRUCTION



PROGRESS PLANS
MAY 5, 2020

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

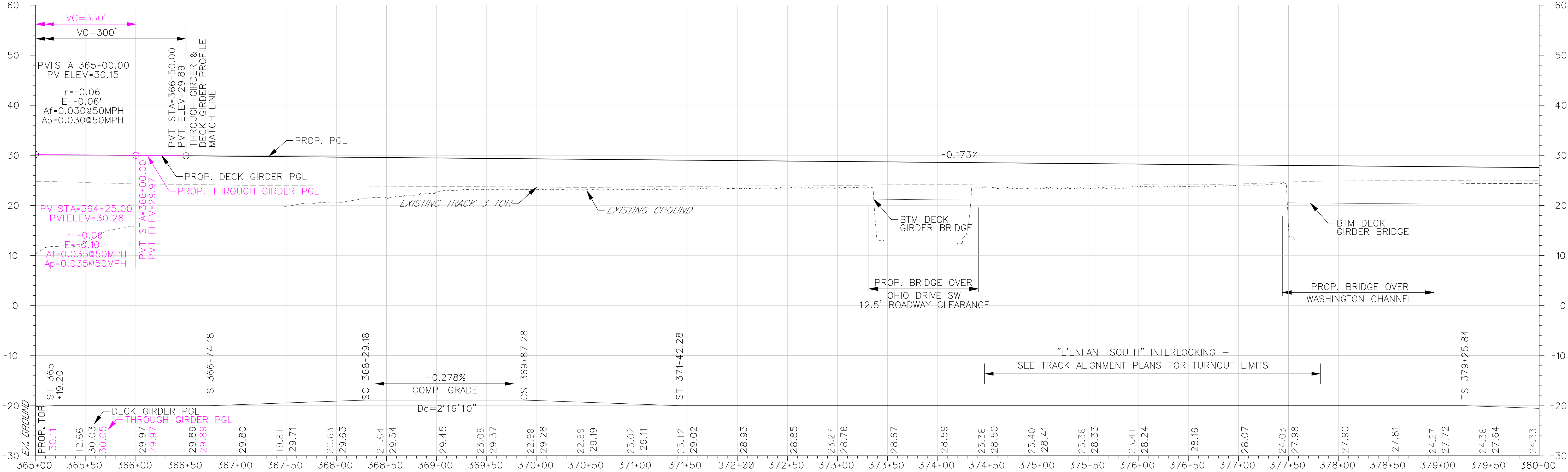
PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DATE 5/5/2020

FILE _____

HORZ:  SCALE IN FEET

VERT: 10 5 0 10 20
SCALE IN FEET



DESIGN SPEED
ALL TRACKS:
FREIGHT SPEED = 50 MPH (EXCEPT AS NOTED BELOW)
PASSENGER SPEED = 50 MPH (EXCEPT AS NOTED BELOW)

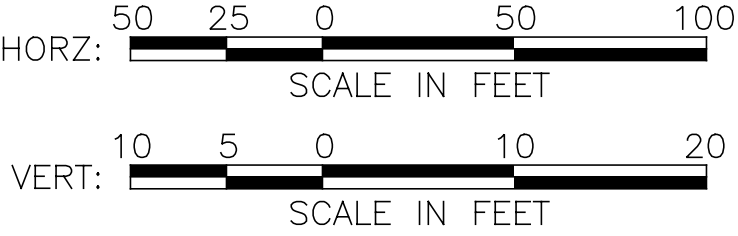
TRACKS 1 & 2 OVER POTOMAC RIVER:
FREIGHT SPEED = 25 MPH
PASSENGER SPEED = 45 MPH

PREFERRED ALTERNATIVE
PROFILE STA. 365+00 TO 380+00

- NOTES:
- PGL SHOWN ALONG TRACK 4; PROFILES FOR EACH TRACK TO BE INCLUDED IN FUTURE DESIGN PHASES.


LEGEND:

- DECK GIRDER PGL
- THROUGH GIRDER PGL



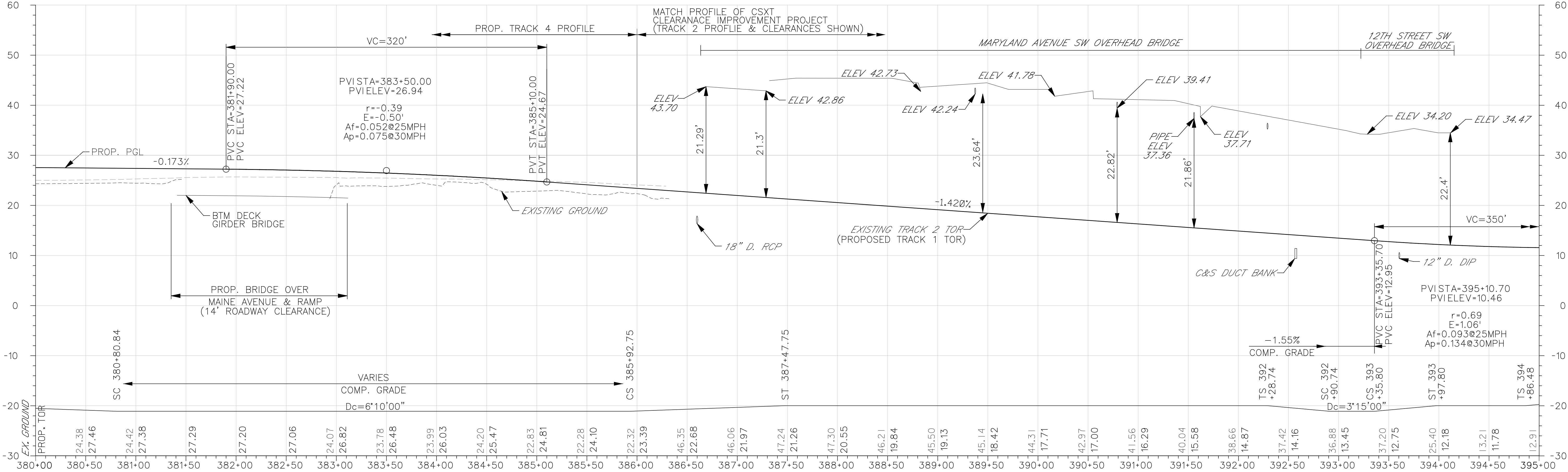
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY: VHB CHECKED BY: VHB DRAWN BY: VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TRACK PROFILE GRADE LINE (4 OF 6)	DIVISION CHIEF DATE: 5/5/2020 FILE: _____ SHEET 14 OF 53

				
NO.	DESCRIPTION	NAME	DATE	
REVISIONS				

PRELIMINARY - NOT FOR CONSTRUCTION

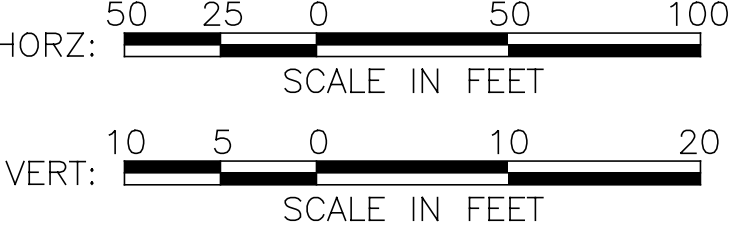




DESIGN SPEED
ALL TRACKS:
FREIGHT SPEED = 25 MPH
PASSENGER SPEED = 30 MPH

PREFERRED ALTERNATIVE
PROFILE STA. 380+00 TO 395+00

- NOTES:
- PGL SHOWN ALONG TRACK 4/2;
PROFILES FOR EACH TRACK TO BE
INCLUDED IN FUTURE DESIGN PHASES.



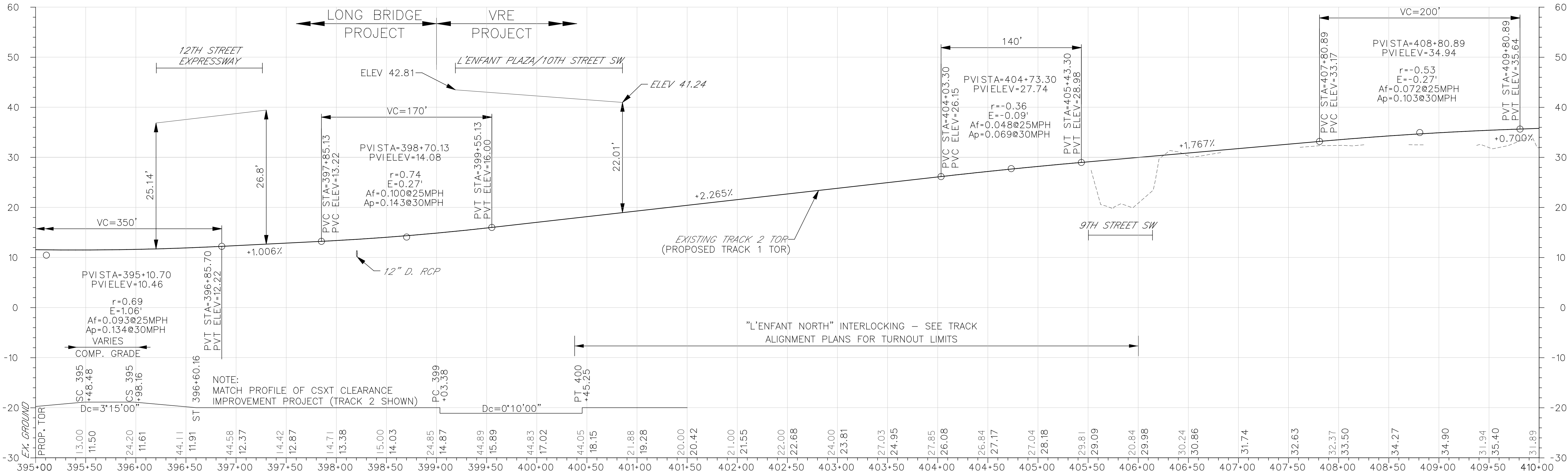
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY: VHB CHECKED BY: VHB DRAWN BY: VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TRACK PROFILE GRADE LINE (5 OF 6)	DIVISION CHIEF DATE: 5/5/2020 FILE: _____ SHEET 15 OF 53

				
NO.	DESCRIPTION	NAME	DATE	
REVISIONS				

PRELIMINARY - NOT FOR CONSTRUCTION

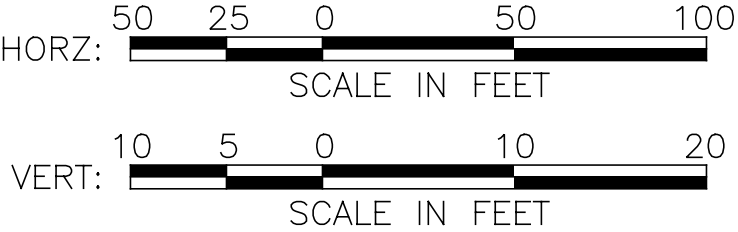




DESIGN SPEED
ALL TRACKS:
FREIGHT SPEED = 25 MPH
PASSENGER SPEED = 30 MPH

PREFERRED ALTERNATIVE
PROFILE STA. 395+00 TO 410+00

- NOTES:
- PGL SHOWN ALONG TRACK 2; PROFILES FOR EACH TRACK TO BE INCLUDED IN FUTURE DESIGN PHASES.



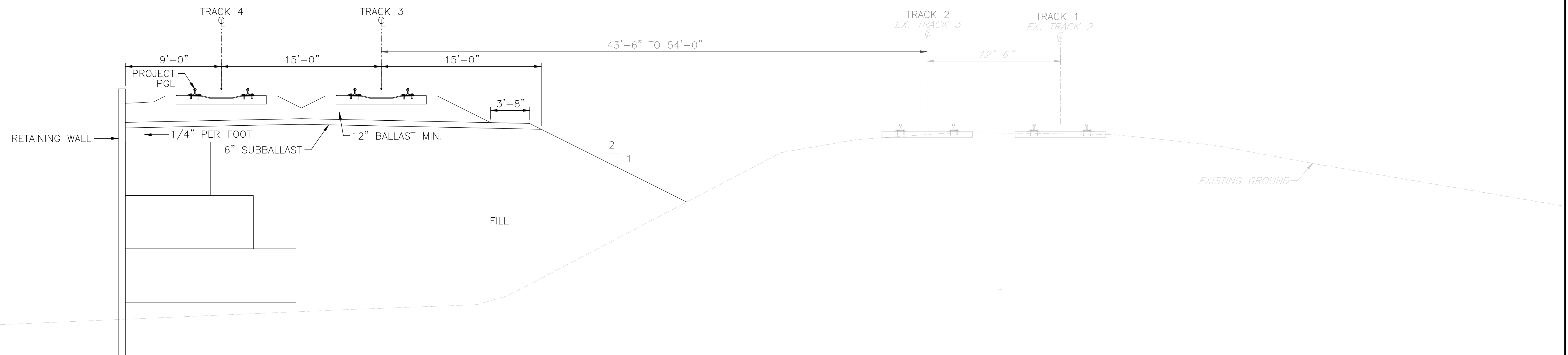
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY: VHB CHECKED BY: VHB DRAWN BY: VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TRACK PROFILE GRADE LINE (6 OF 6)	DIVISION CHIEF DATE: 5/5/2020 FILE: _____ SHEET 16 OF 53

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

PRELIMINARY - NOT FOR CONSTRUCTION

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	VA		T-303	53



LONG BRIDGE SOUTH APPROACH
329+30 TO 330+75

NOTES:

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (3 OF 15)

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020

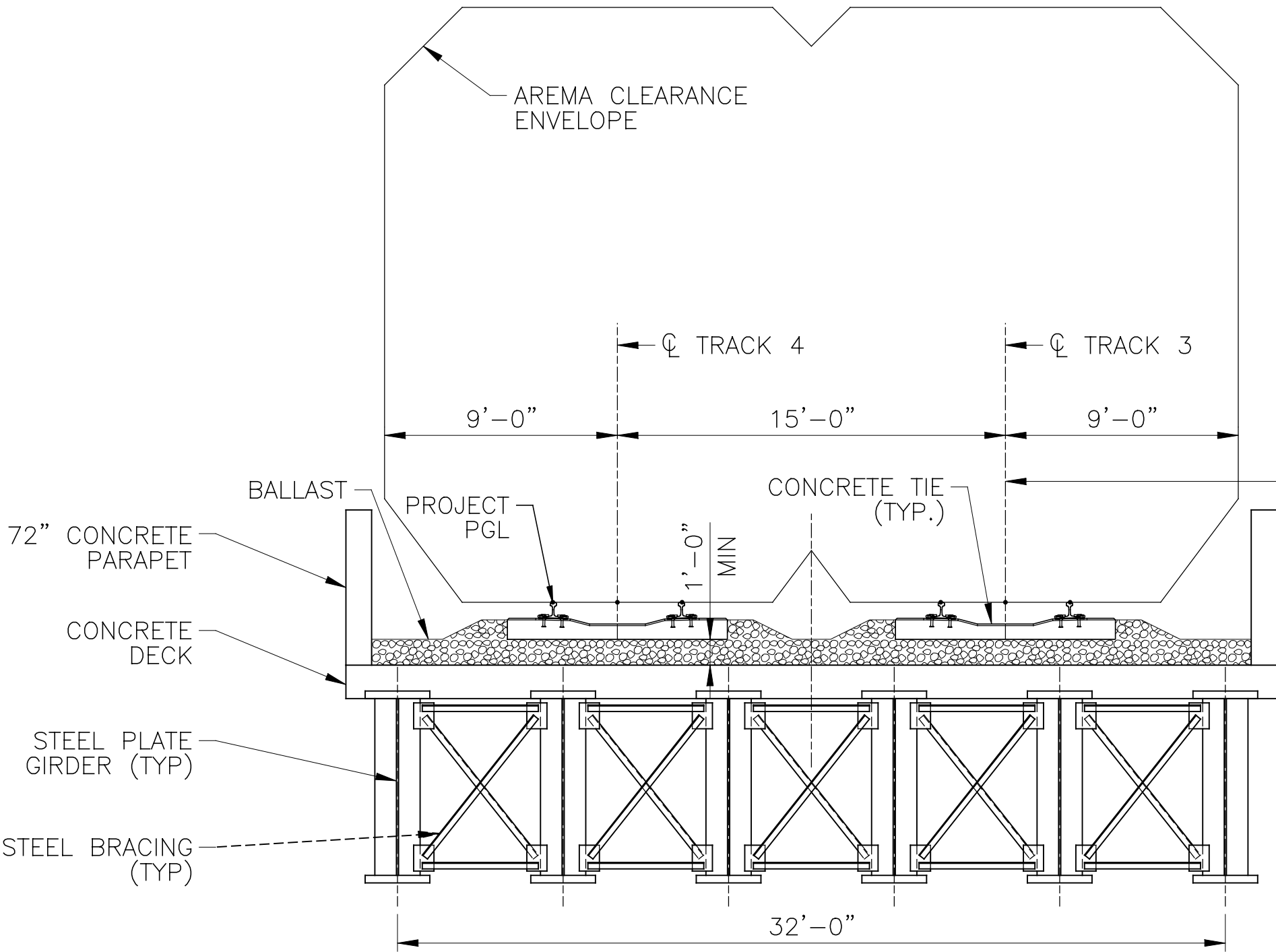
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SHEET 19 OF 53

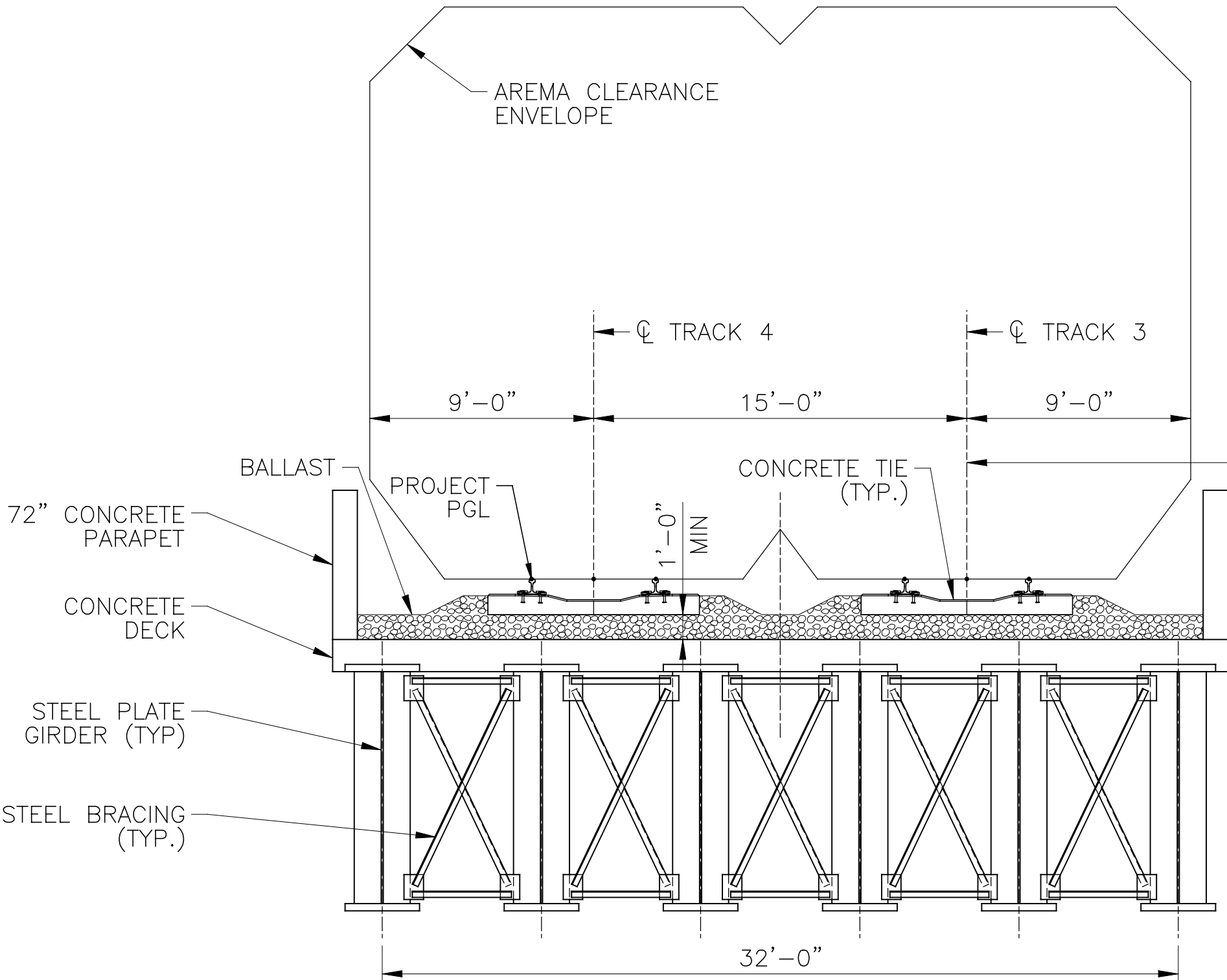
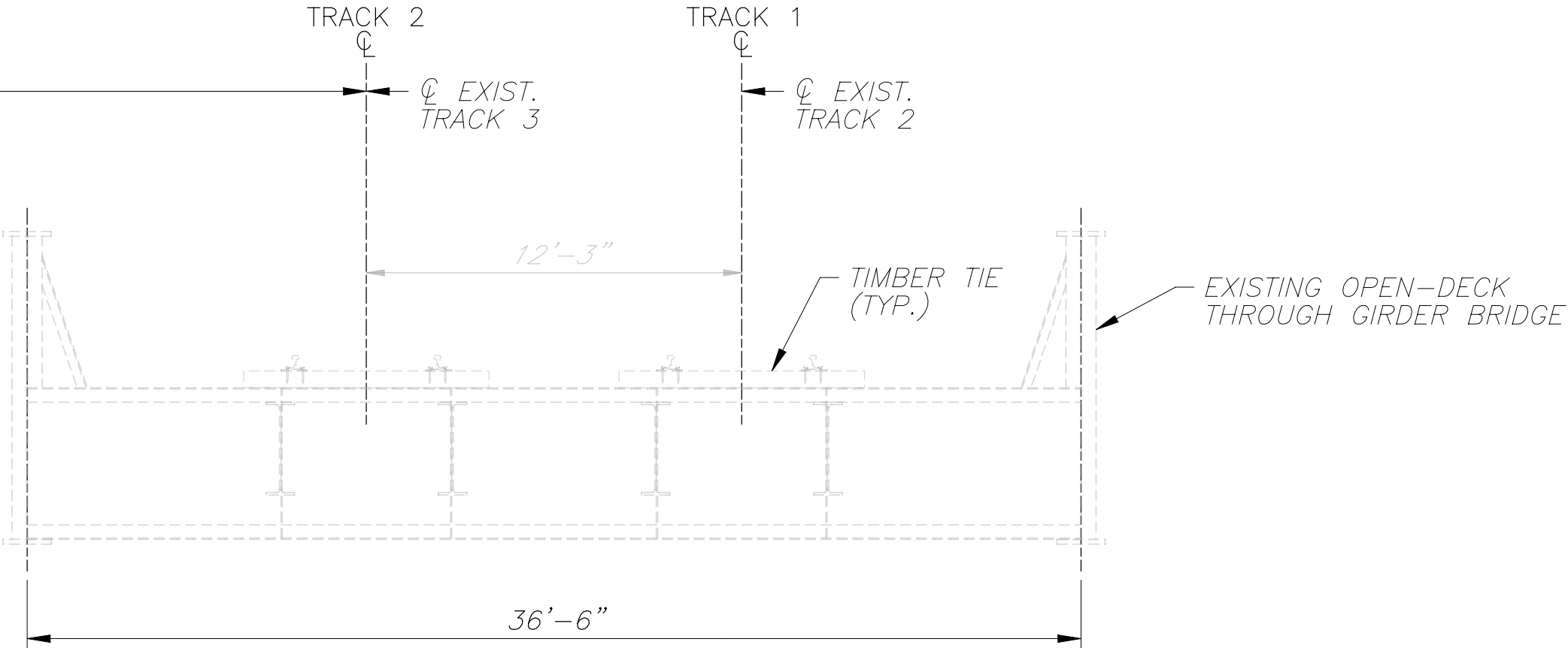
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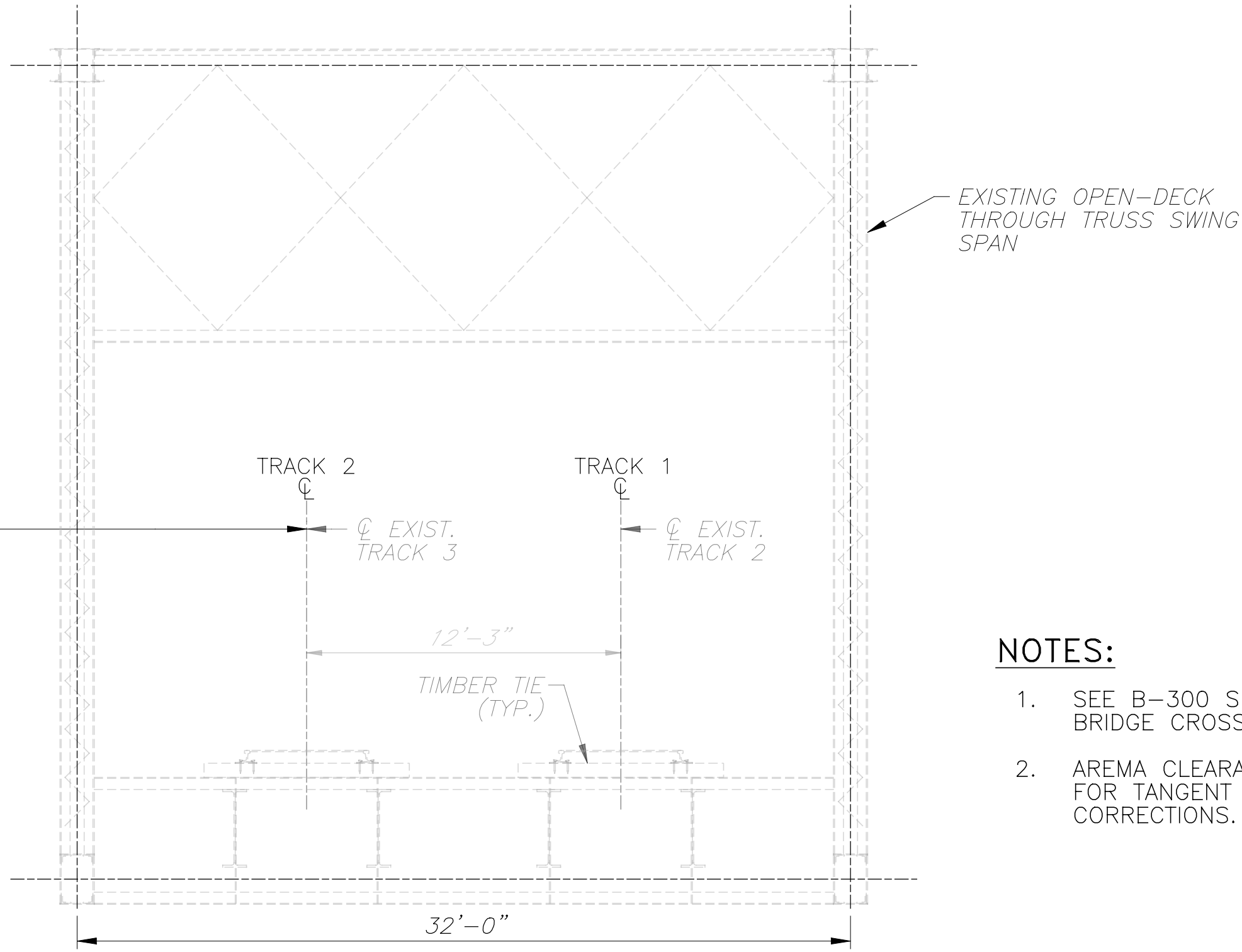
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



POTOMAC RIVER BRIDGE
APPROACH SPAN
DECK GIRDER OPTION
330+75 TO 338+50
341+50 TO 357+00



POTOMAC RIVER BRIDGE
CHANNEL SPAN
DECK GIRDER OPTION
338+50 TO 341+50



- NOTES:**
- SEE B-300 SERIES FOR BIKE-PEDESTRIAN BRIDGE CROSS SECTIONS.
 - AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (4 OF 15)

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

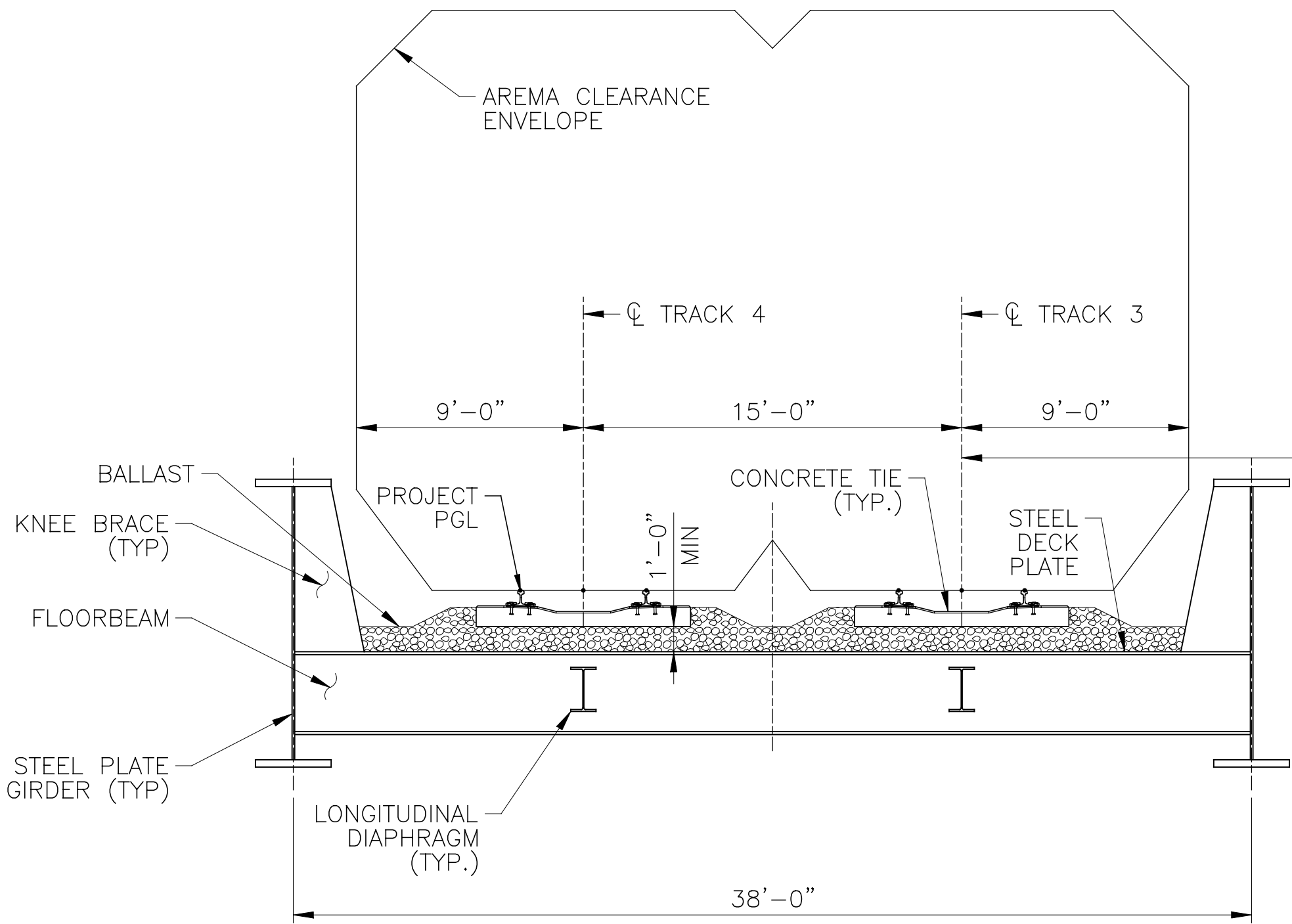
DIVISION CHIEF
DATE 5/5/2020
FILE
SHEET 20 OF 53



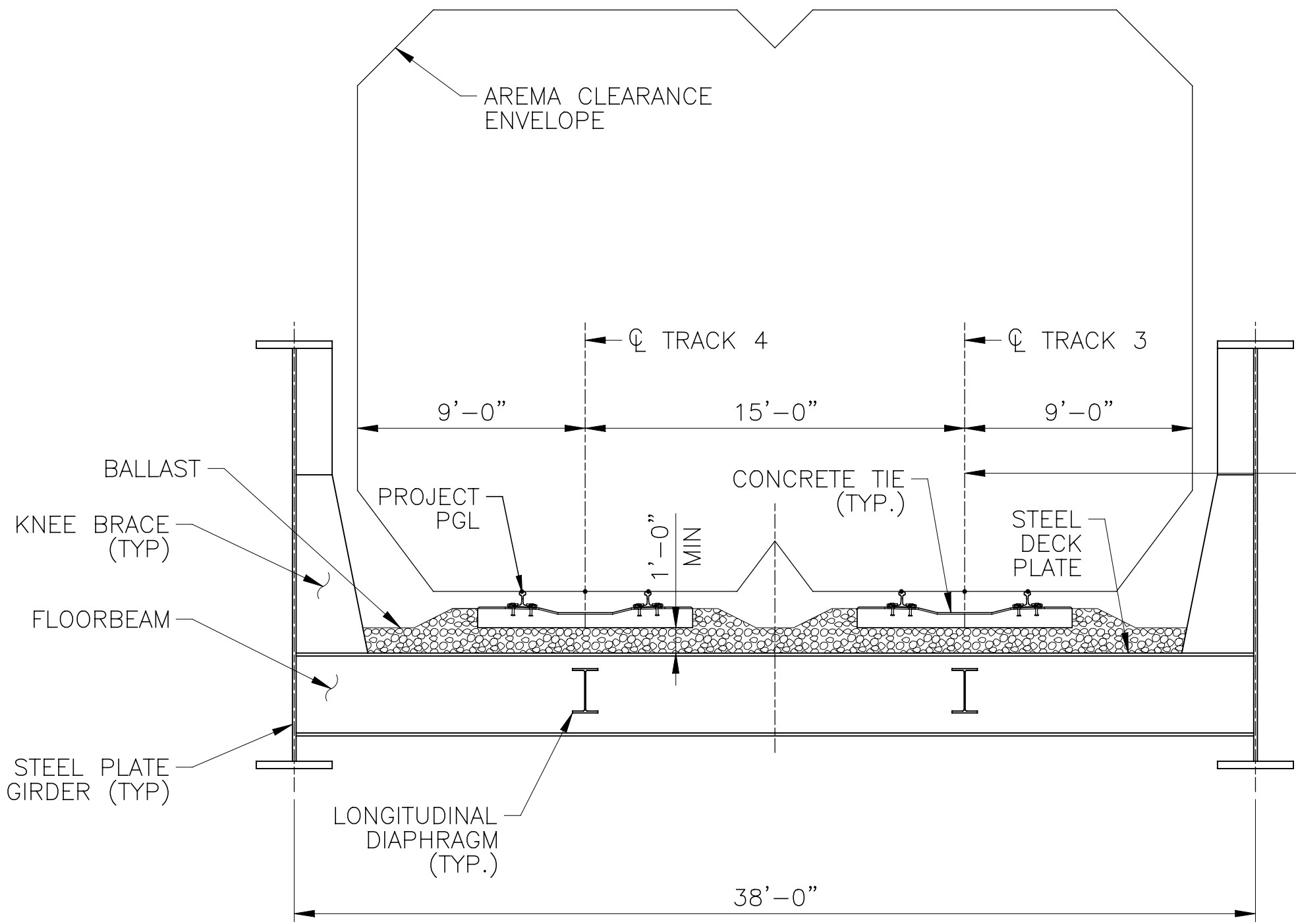
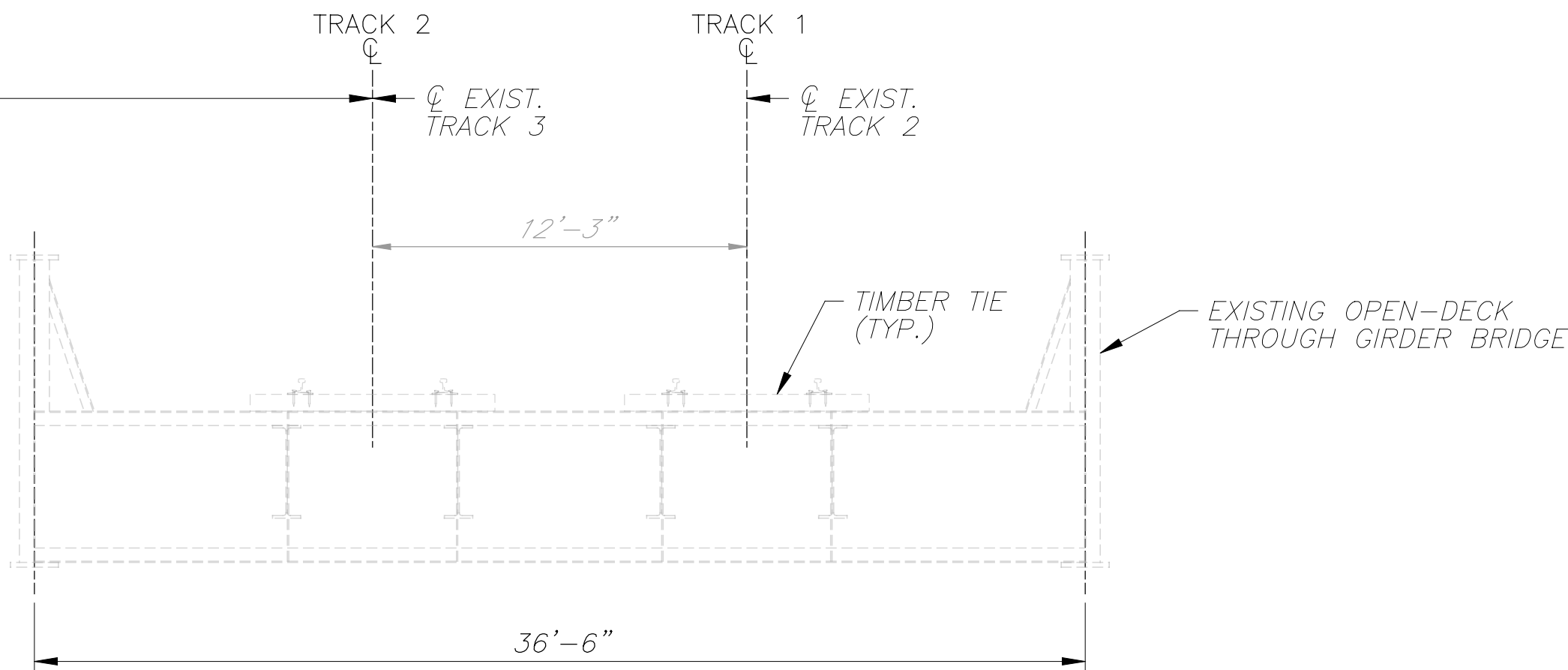
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

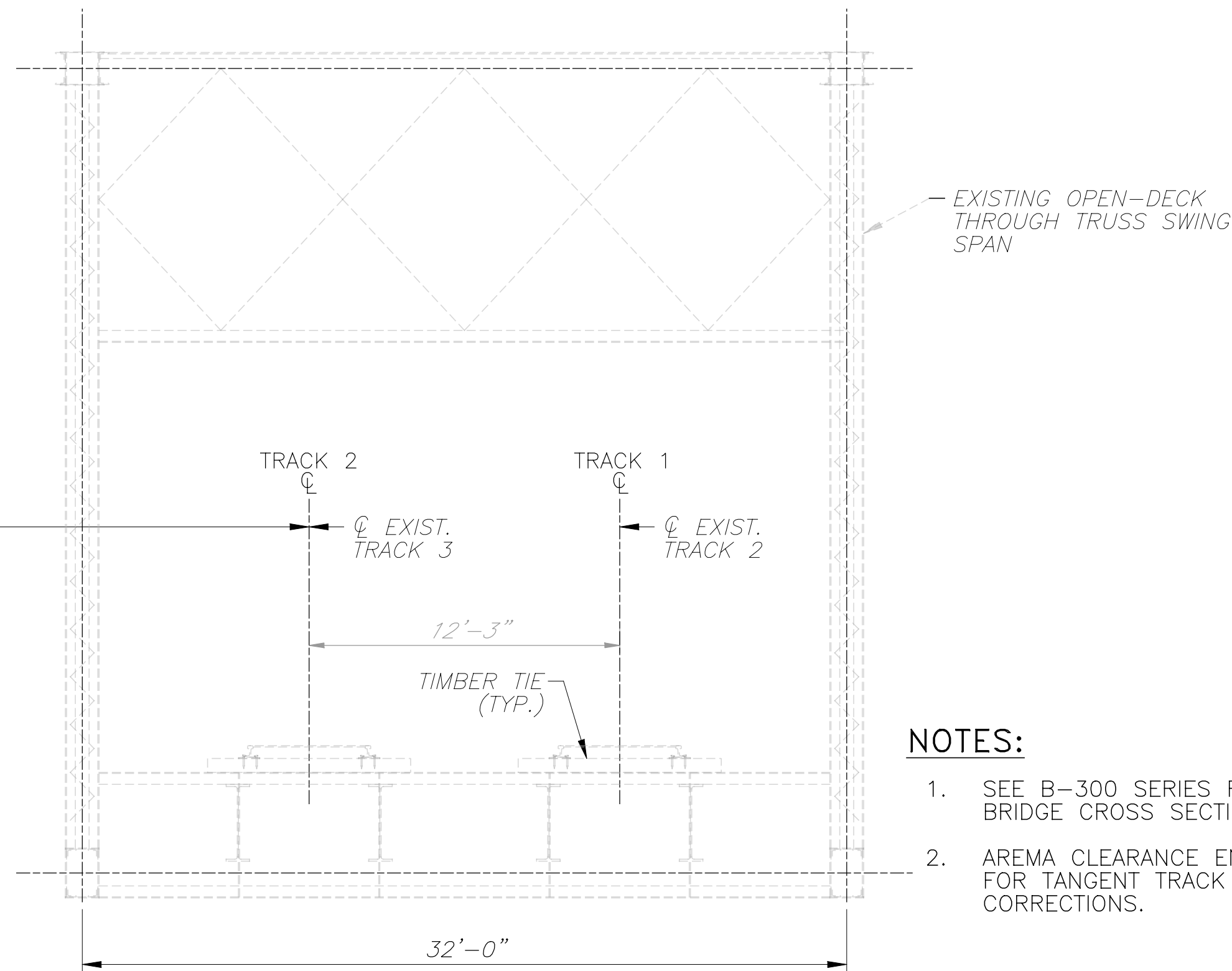
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SCALE: 1" = 10'-0"



POTOMAC RIVER BRIDGE
APPROACH SPAN
THROUGH GIRDER OPTION
330+75 TO 338+50
341+50 TO 357+00



POTOMAC RIVER BRIDGE
CHANNEL SPAN
THROUGH GIRDER OPTION
338+50 TO 341+50



- NOTES:**
- SEE B-300 SERIES FOR BIKE-PEDESTRIAN BRIDGE CROSS SECTIONS.
 - AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (5 OF 15)

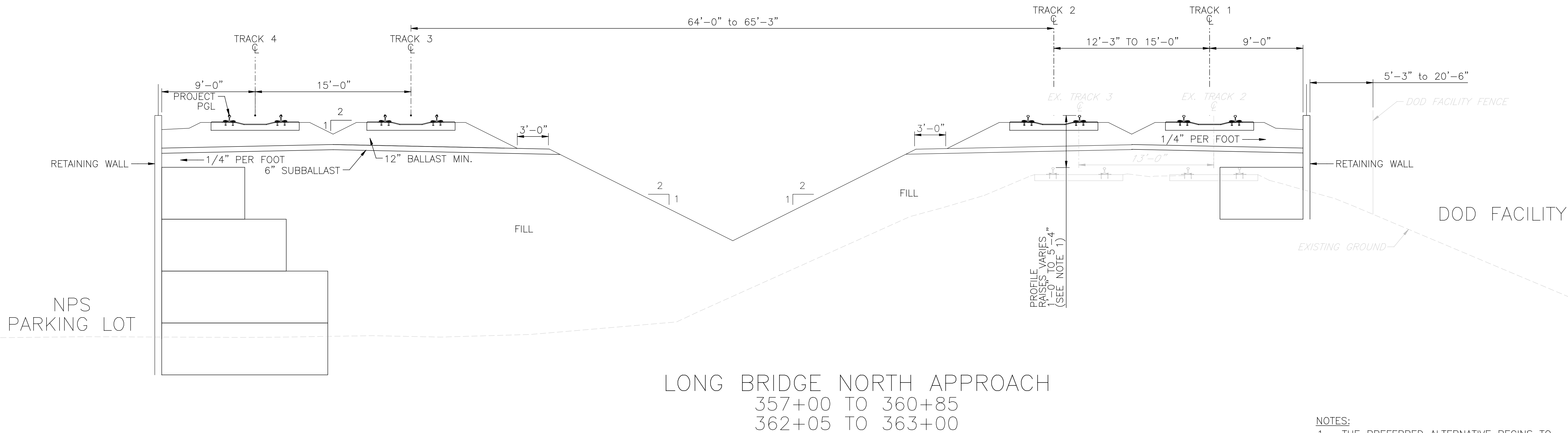
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CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____
DIVISION CHIEF
DATE 5/5/2020
FILE
SHEET 21 OF 53



PRELIMINARY - NOT FOR CONSTRUCTION

0 5 10
SCALE: 1" = 10'-0"

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-306	53



LONG BRIDGE NORTH APPROACH
357+00 TO 360+85
362+05 TO 363+00

- NOTES:
1. THE PREFERRED ALTERNATIVE BEGINS TO TIE INTO EXISTING TRACK ALIGNMENT AND PROFILE.

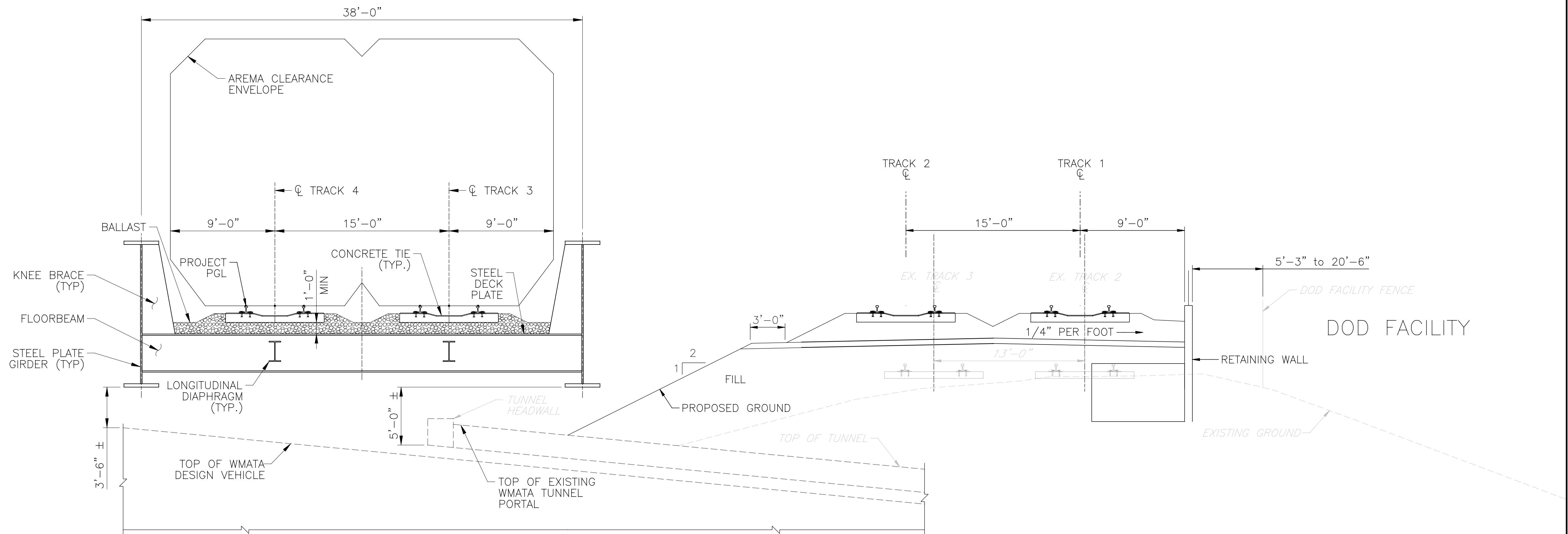
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY _____ VHB CHECKED BY _____ VHB DRAWN BY _____ VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TYPICAL SECTIONS (6 OF 15)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 22 OF 53

	NO.	DESCRIPTION	NAME DATE
REVISIONS			

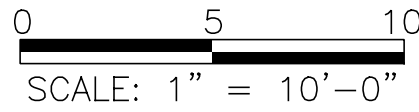
PRELIMINARY - NOT FOR CONSTRUCTION

0 5 10
SCALE: 1" = 10'-0"



WMATA TUNNEL UNDERGRADE BRIDGE
360+85 TO 362+05

- NOTES:
1. AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.



PRELIMINARY - NOT FOR CONSTRUCTION



PROGRESS PLANS
MAY 5, 2020

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

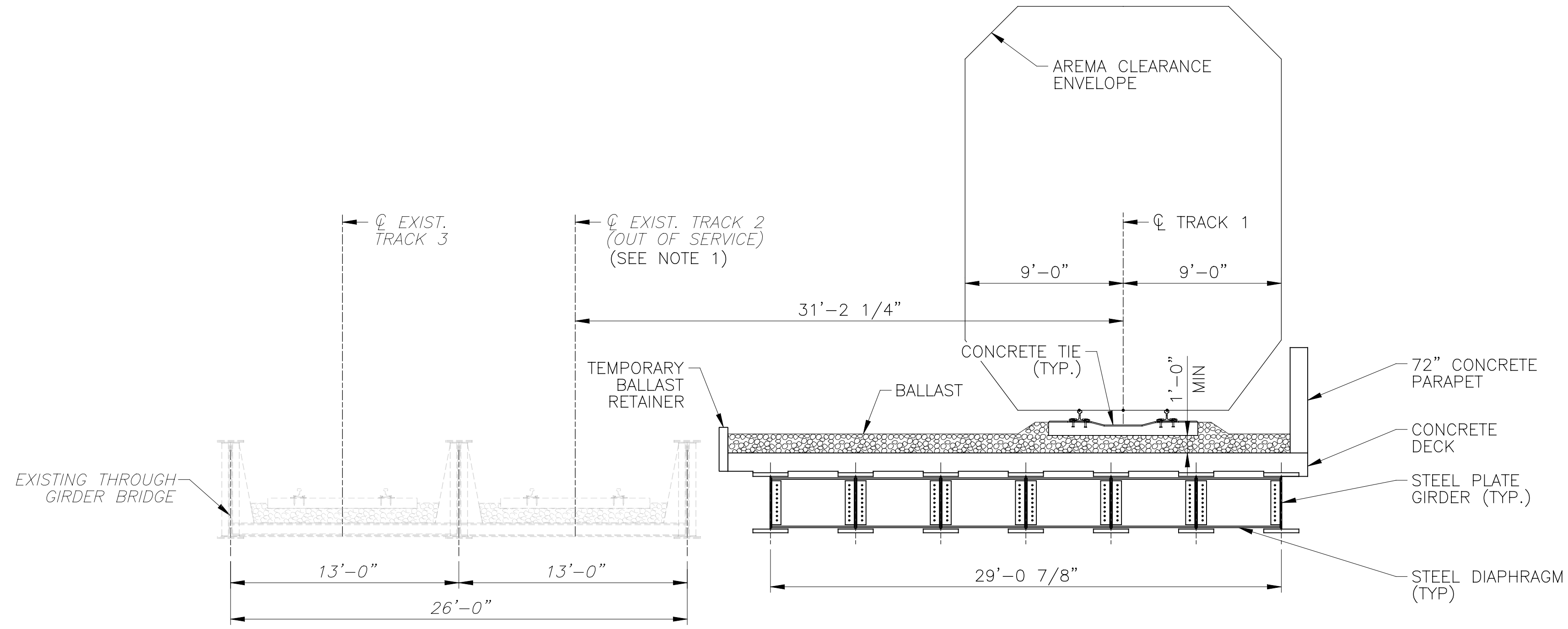
LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (7 OF 15)

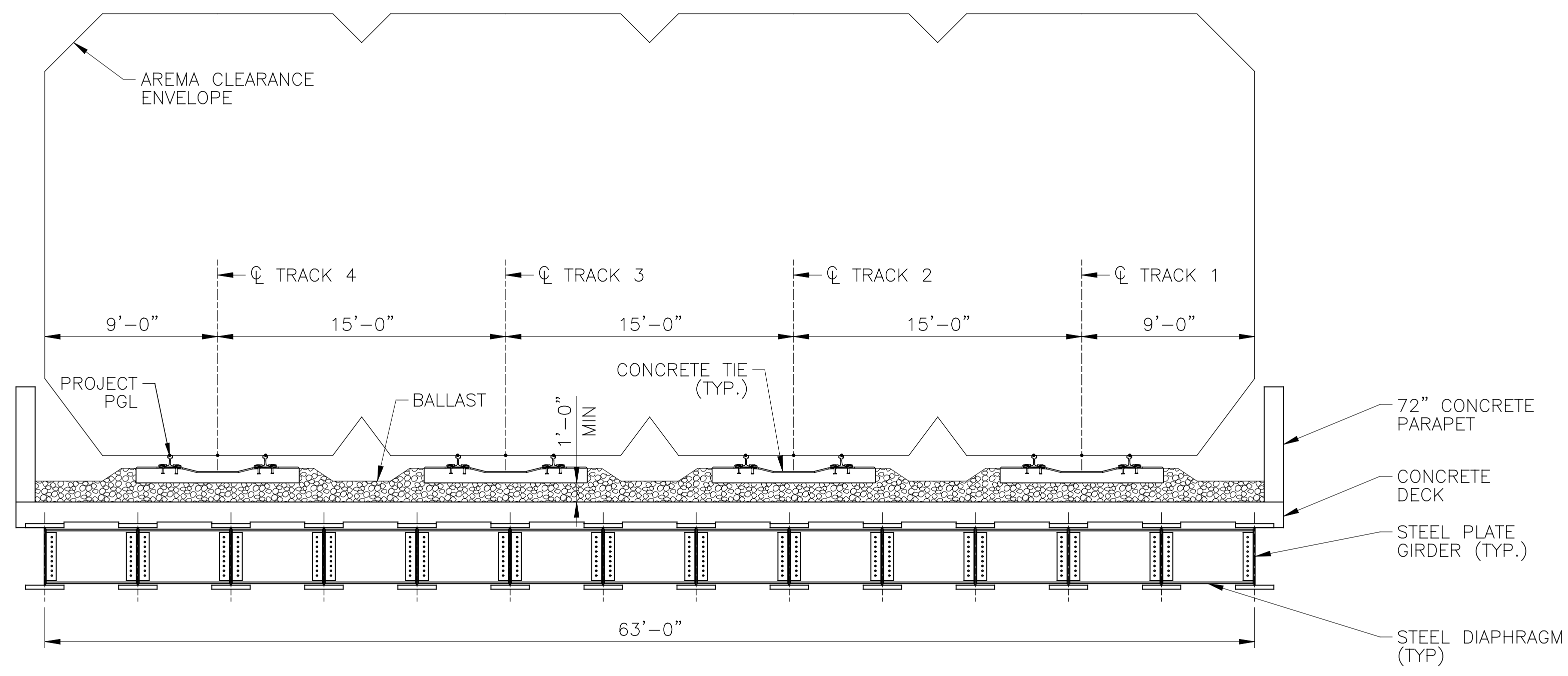
PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 23 OF 53



OHIO DRIVE SW UNDERGRADE BRIDGE
INITIAL CONDITION
373+25 TO 374+50



OHIO DRIVE SW UNDERGRADE BRIDGE
FINAL CONDITION
373+25 TO 374+50

- NOTES:
- EXISTING BRIDGE DEMOLITION AND NEW BRIDGE WIDENING WILL BE STAGED TO PROVIDE TWO TRACKS DURING CONSTRUCTION.
 - AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.

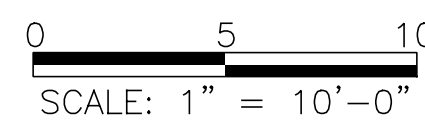
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY VHB CHECKED BY VHB DRAWN BY VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TYPICAL SECTIONS (10 OF 15)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 26 OF 53

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

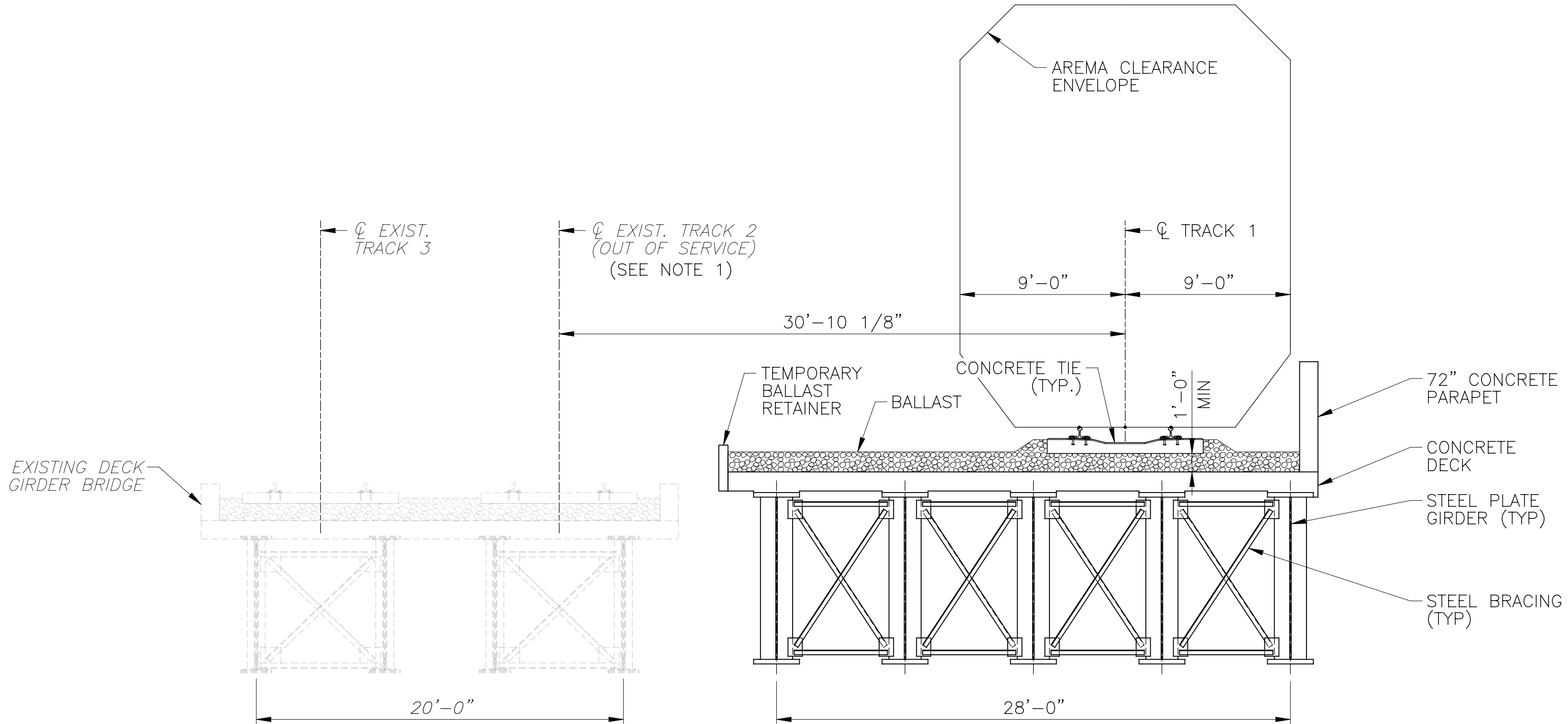


PRELIMINARY - NOT FOR CONSTRUCTION

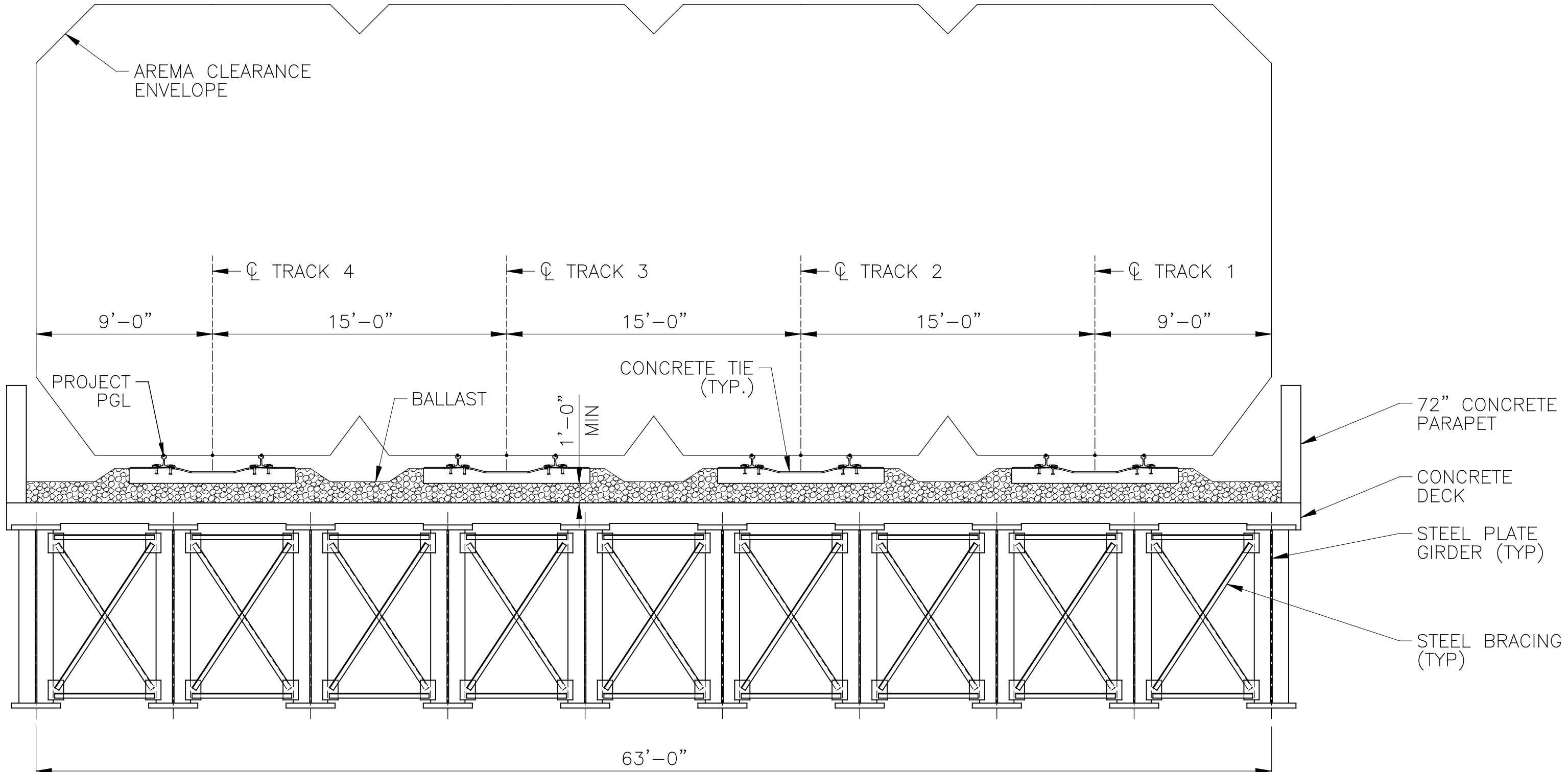


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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-311	53



WASHINGTON CHANNEL
UNDERGRADE BRIDGE
INITIAL CONDITION
377+50 TO 379+00



WASHINGTON CHANNEL
UNDERGRADE BRIDGE
FINAL CONDITION
377+50 TO 379+00

NOTES

1. EXISTING BRIDGE DEMOLITION AND NEW BRIDGE WIDENING WILL BE STAGED TO PROVIDE TWO TRACKS DURING CONSTRUCTION.
2. AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

PROJECT ENG. _____
DESIGNED BY _____ VHB _____
CHECKED BY _____ VHB _____
DRAWN BY _____ VHB _____
PROJECT MGR. _____

DIVISION CHIEF

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (11 OF 15)

DATE 5/5/2020

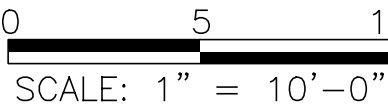
FILE _____

SHEET 27 OF

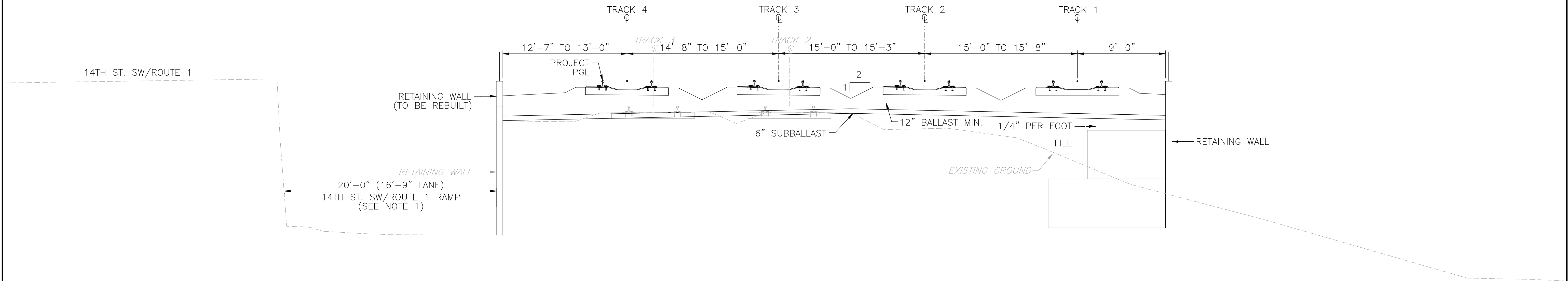


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

PRELIMINARY - NOT FOR CONSTRUCTION



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-312	53




WASHINGTON CHANNEL TO MAINE AVENUE SW
379+00 TO 381+35

- NOTES:
1. TEMPORARY RAMP CLOSURES DURING CONSTRUCTION. POSSIBLE REALIGNMENT NEEDED.

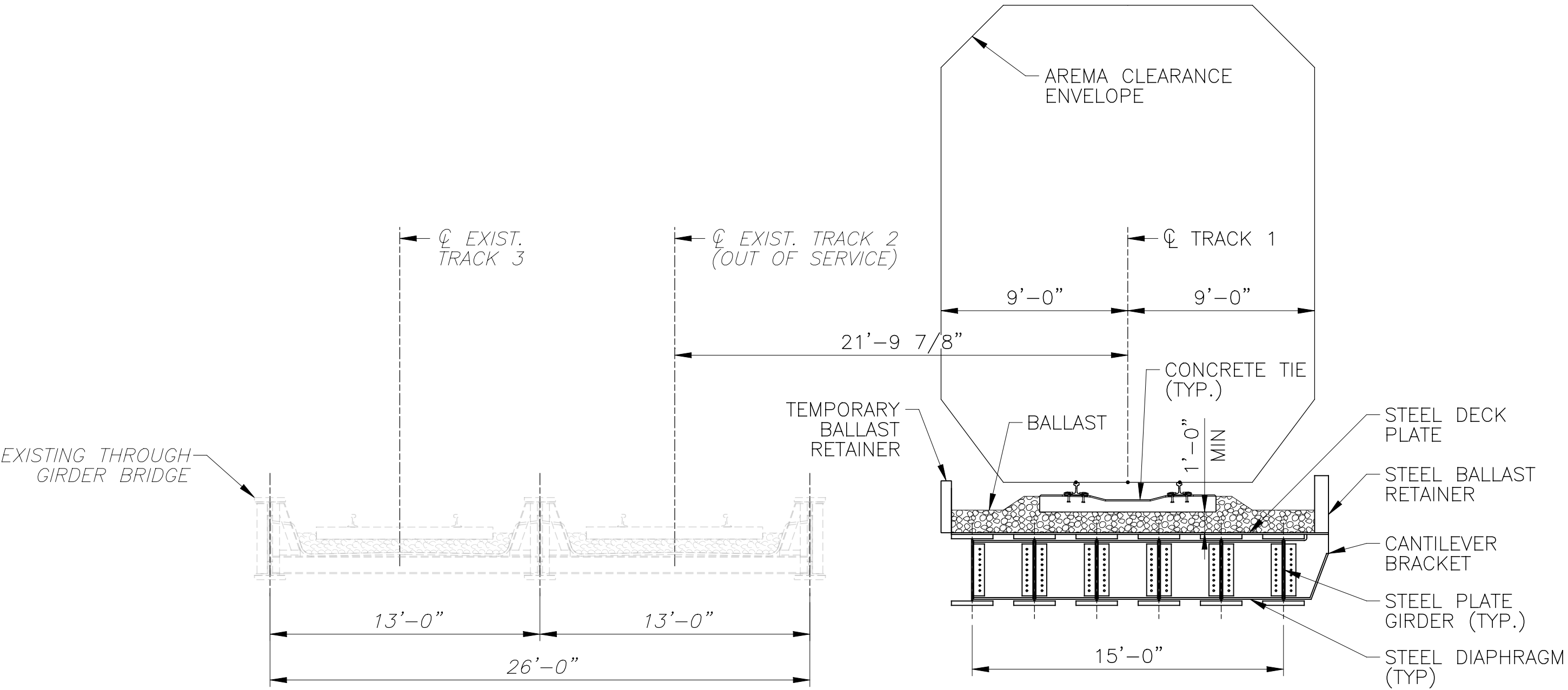
PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY _____ VHB CHECKED BY _____ VHB DRAWN BY _____ VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TYPICAL SECTIONS (12 OF 15)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 28 OF 53

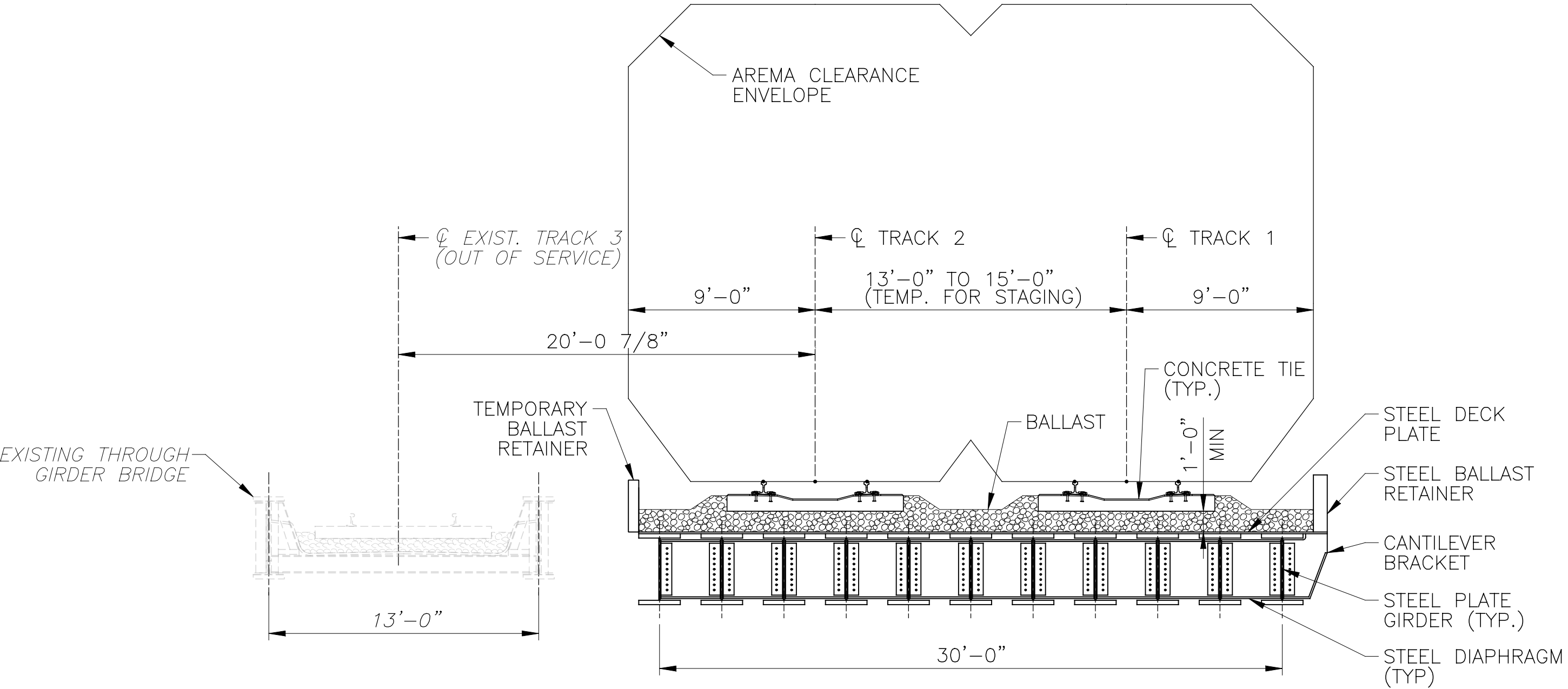
			
	NO	DESCRIPTION	NAME DATE
REVISIONS			

PRELIMINARY - NOT FOR CONSTRUCTION

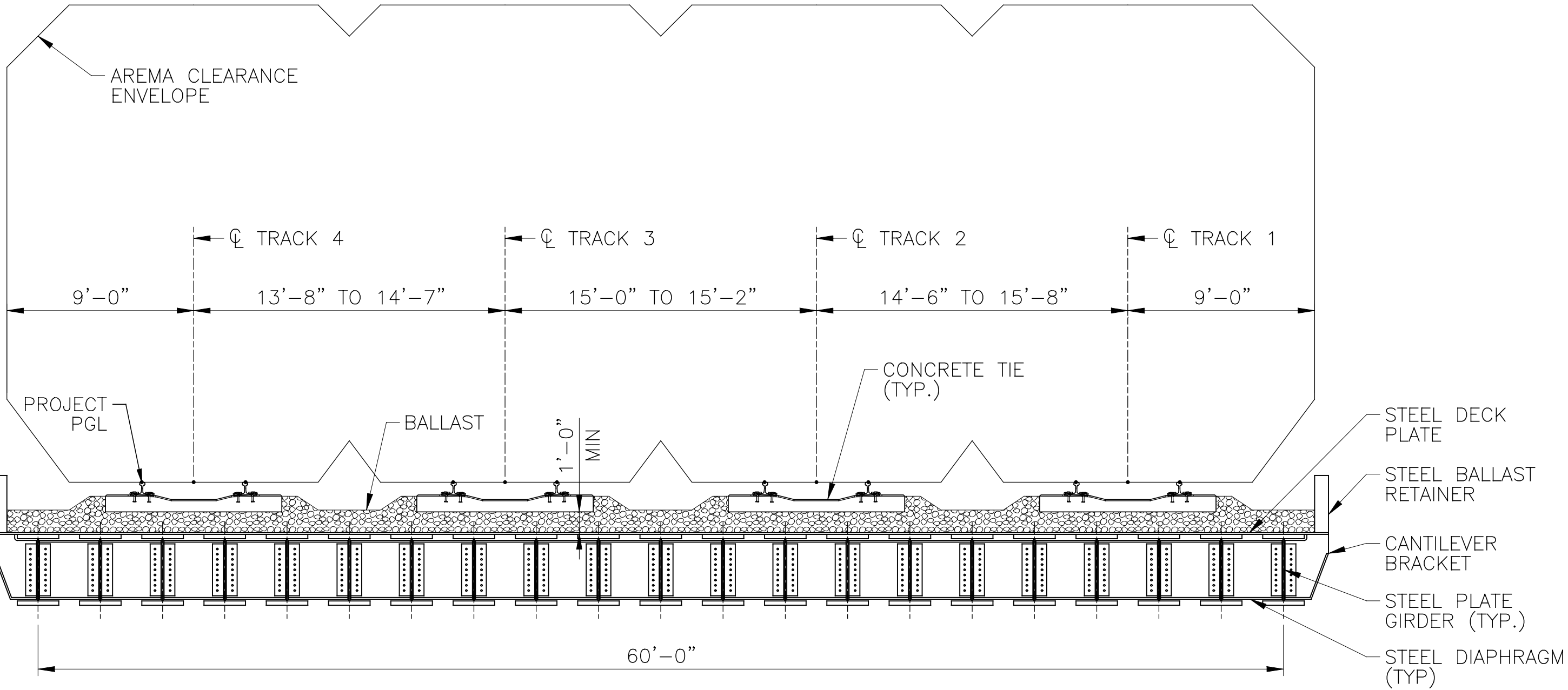
0 5 10
SCALE: 1" = 10'-0"



INITIAL CONDITION



INTERMEDIATE CONDITION



FINAL CONDITION

- NOTES:
1. PEDESTRIAN BRIDGE TO BE REMOVED PRIOR TO BEGINNING CONSTRUCTION.
 2. VERTICAL ROADWAY CLEARANCE BELOW BRIDGE MATCHES EXISTING OF 14'.
 3. AREMA CLEARANCE ENVELOPE IS SHOWN FOR TANGENT TRACK WITHOUT CURVE CORRECTIONS.

MAINE AVENUE SW UNDERGRADE BRIDGE
381+35 TO 383+00

PROGRESS PLANS
MAY 5, 2020

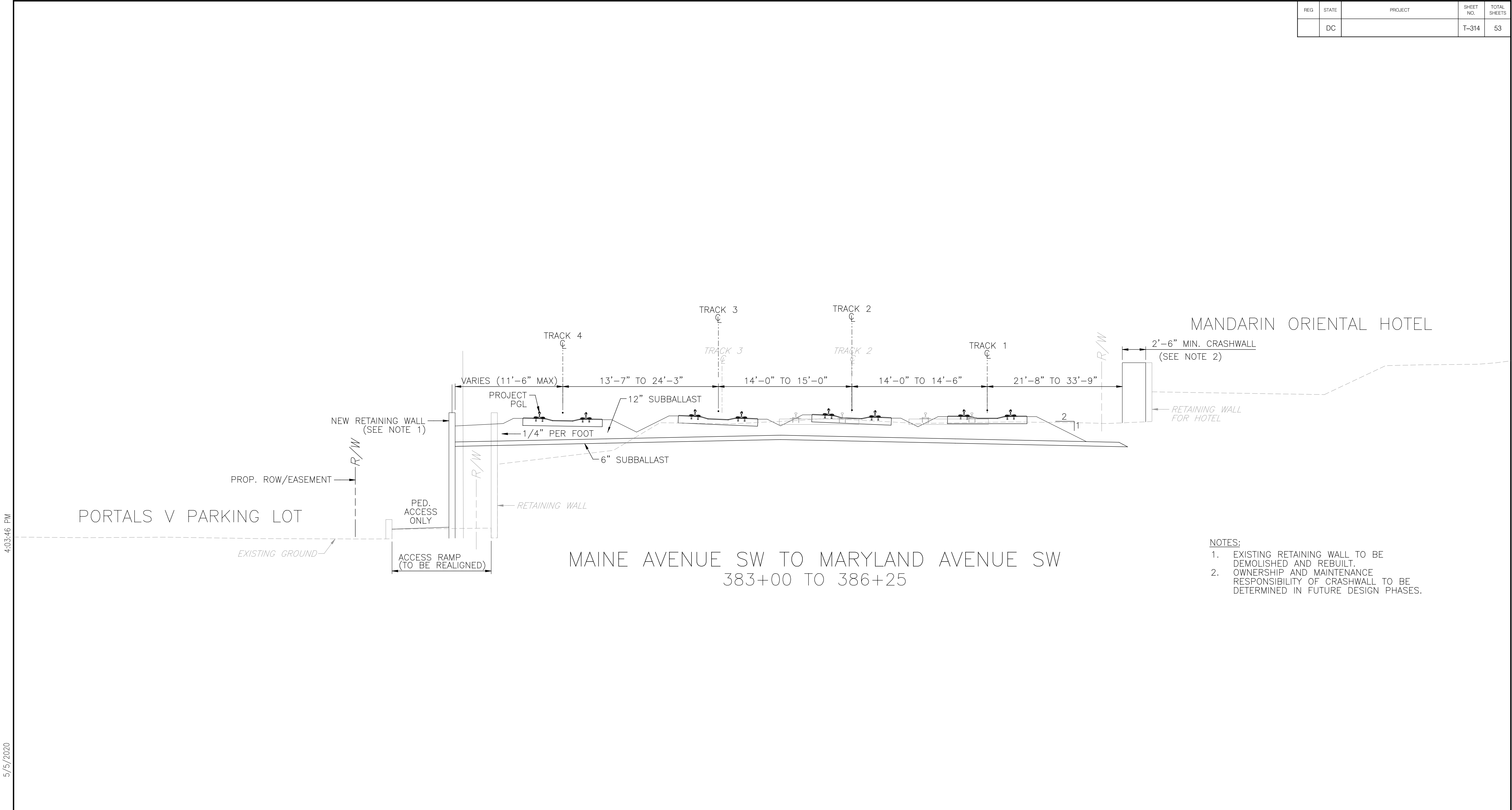
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY VHB CHECKED BY VHB DRAWN BY VHB PROJECT MGR. _____
"RO" TO "L'ENFANT" TYPICAL SECTIONS (13 OF 15)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 29 OF 53



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

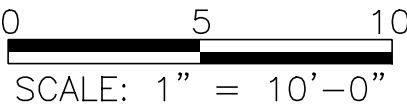
PRELIMINARY - NOT FOR CONSTRUCTION

0 5 10
SCALE: 1" = 10'-0"



- NOTES:
- 1. EXISTING RETAINING WALL TO BE DEMOLISHED AND REBUILT.
 - 2. OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF CRASHWALL TO BE DETERMINED IN FUTURE DESIGN PHASES.

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PRELIMINARY - NOT FOR CONSTRUCTION



PROGRESS PLANS
MAY 5, 2020

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

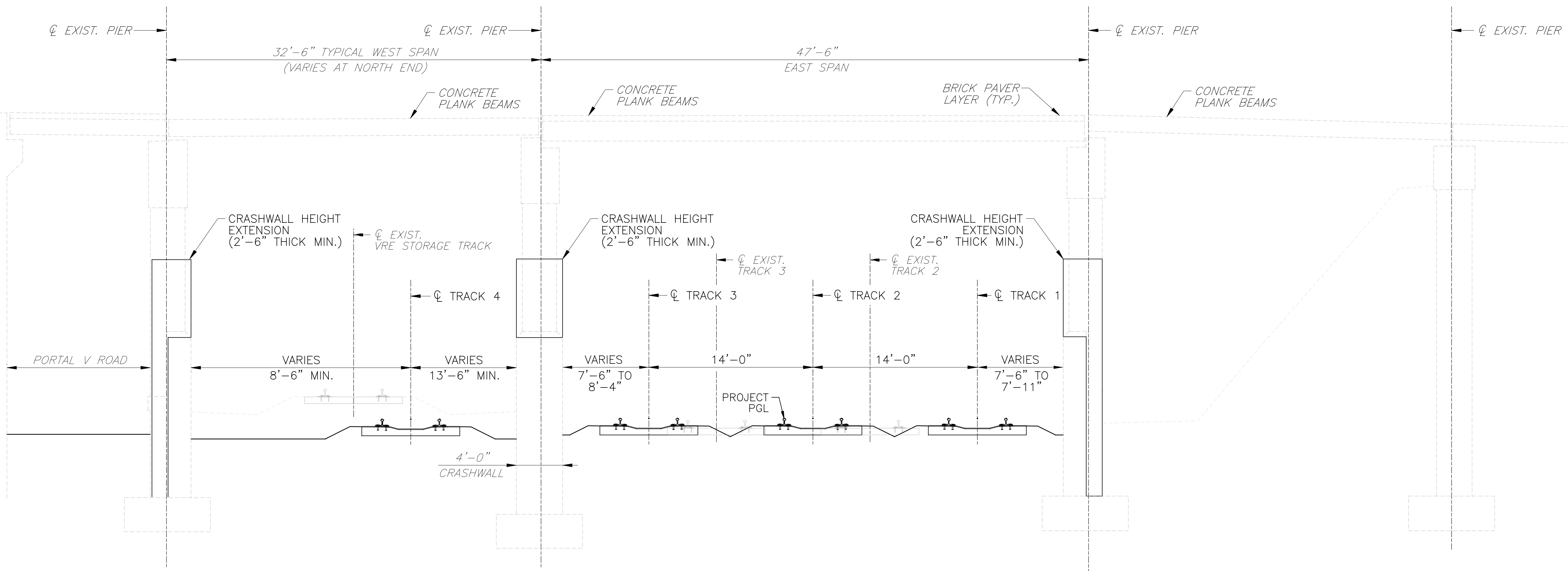
LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (14 OF 15)

PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 30 OF 53



MARYLAND AVENUE SW OVERHEAD BRIDGE
386+25 TO 393+00

0 5 10
SCALE: 1" = 10'-0"

PRELIMINARY - NOT FOR CONSTRUCTION



PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
TYPICAL SECTIONS (15 OF 15)

PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF
DATE _____ \$DATE\$
FILE _____
SHEET 31 OF 53

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-811	53

PHASE A
PREWORK

CONSTRUCTION WORK

- BUILD FUT. TK 1 FROM I-395 TO MARYLAND AVENUE SW (CONSTRUCT OHIO DRIVE SW, WASHINGTON CHANNEL, MAINE AVENUE SW BRIDGES AND RETAINING WALLS TO SUPPORT TK 1).
- BUILD "LE SOUTH" 12A SWITCH.
- DEMOLISH PED. BRIDGE.
- CONSTRUCT PED. BRIDGE AFTER MAINE AVENUE SW BRIDGE IS BUILT.
- REMOVE VRE STORAGE TK. RECONFIGURE TRACK DRAINAGE SYSTEM.
- LOWER WEST BAY TK PROFILE AND REBUILD TO PLATE 'H' CLEARANCE.
- INSTALL NEW C&S EQUIPMENT.
- BUILD UP CRASHWALLS UNDER MARYLAND AVENUE SW.
- BEGIN CONSTRUCTION OF NEW WEST RAIL BRIDGE OVER THE POTOMAC RIVER.

OPERATIONS NOTES

EXISTING OPERATIONS EXCEPT CLOSURE OF STORAGE TRACK FOUL TIME AS NEEDED

DURATION

16.5 MONTHS

PHASE A
STAGE 1

CONSTRUCTION WORK

- CONNECT EX. TK 3 TO WEST BAY TK.

OPERATIONS NOTES

TRACK 3 OUT-OF-SERVICE "RO" TO "VIRGINIA"
NO ACCESS TO L'ENFANT STATION (STATION TRACK AND TRACK 4 OUT-OF-SERVICE)

DURATION

ONE NIGHT

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK NUMBERING WITH ADJACENT PROJECTS IN FUTURE PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020



NO	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
PHASING DIAGRAM -
PHASE A, PREWORK/STAGE 1

PROJECT ENG.	
DESIGNED BY	HNTB
CHECKED BY	HNTB
DRAWN BY	HNTB
PROJECT MGR.	
DIVISION CHIEF	
DATE	5/5/2020
FILE	
SHEET	32 OF 53

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-812	53

PHASE A
STAGE 2
CONSTRUCTION WORK
1. CONNECT EX. TK 2 TO EX. TK 3.

OPERATIONS NOTES
TRACK 2 OUT-OF-SERVICE NORTH OF "RO"
FUT. TRACK 2 OUT-OF-SERVICE "LE NORTH" TO "VIRGINIA"
CSXT SINGLE TRACK TO VIRGINIA AVENUE TUNNEL

DURATION
ONE NIGHT

PHASE A
STAGE 3
CONSTRUCTION WORK
1. CONNECT FUT. TK 1 TO FINAL ALIGNMENT.

OPERATIONS NOTES
FUT. TRACK 1 OUT-OF-SERVICE
CSXT SINGLE TRACK TO VIRGINIA AVENUE TUNNEL

DURATION
1 DAY

- CONSTRUCTION LEGEND
- EXISTING TRACK/STRUCTURE
 - RAISE AND SURFACE
 - CONSTRUCT NEW
 - TRACK TO BE SHIFTED
 - AS SHIFTED
 - REMOVE
 - TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK NUMBERING WITH ADJACENT PROJECTS IN FUTURE PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION



REVISIONS			
NO.	DESCRIPTION	NAME	DATE

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY HNTB CHECKED BY HNTB DRAWN BY HNTB PROJECT MGR. _____
"RO" TO "L'ENFANT" PHASING DIAGRAM - PHASE A, STAGE 23	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 33 OF 53

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-813	53

PHASE A
STAGE 4

CONSTRUCTION WORK

1. CONNECT/SHIFT FUT. TK 1 INTO SERVICE NORTH OF I-395.

OPERATIONS NOTES

TRACK 2 OUT-OF-SERVICE NORTH OF "RO"
CSXT SINGLE TRACK TO VIRGINIA AVENUE TUNNEL

DURATION

ONE NIGHT

PHASE A
STAGE 5

CONSTRUCTION WORK

1. REMOVE EX. TK 2 FROM I-395 TO MAINE AVENUE SW AND REMOVE MAINE AVENUE BRIDGE UNDER EX. TK 2.
2. CONSTRUCT OHIO DRIVE SW, WASHINGTON CHANNEL, AND MAINE AVENUE SW TO SUPPORT FUT. TK 2. BUILD FUT. TK 2 FROM I-395 TO MAINE AVENUE SW.
3. CONNECT AND SHIFT FUT. TK 2 FROM MAINE AVENUE SW TO "LE NORTH."
4. BUILD "LE SOUTH" 12B SWITCH.
5. BUILD BRIDGES OVER WMATA TUNNEL AND I-395 OFFLINE.
6. BUILD WEST GEORGE WASHINGTON MEMORIAL PARKWAY BRIDGE.

OPERATIONS NOTES

NORMAL OPERATIONS

DURATION

21.5 MONTHS

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- ... TRACK TO BE SHIFTED
- AS SHIFTED
- - - REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK NUMBERING WITH ADJACENT PROJECTS IN FUTURE PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY _____ HNTB CHECKED BY _____ HNTB DRAWN BY _____ HNTB PROJECT MGR. _____
"RO" TO "L'ENFANT" PHASING DIAGRAM - PHASE A, STAGE 4S	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 34 OF 53

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-814	53

PHASE A
STAGE 6

CONSTRUCTION WORK

1. CONNECT SHIFT FUT. TK 2 INTO SERVICE NORTH OF I-395.

OPERATIONS NOTES

TRACK 3 OUT-OF-SERVICE "RO" TO "LE SOUTH"

DURATION

ONE NIGHT

PHASE B
PREWORK

CONSTRUCTION WORK

1. REMOVE EX. TK 3 FROM I-395 TO MAINE AVENUE SW. REMOVE REMAINING STRUCTURES OF OHIO DRIVE SW, WASHINGTON CHANNEL, AND MAINE AVENUE SW. BUILD FUT. TK 3 & 4 STRUCTURES AND TRACK OVER SAME LIMITS INCLUDING RETAINING WALLS.
2. CONSTRUCT ALL WEST RETAINING WALLS "RO" TO "LE SOUTH."
3. FINISH CONSTRUCTION OF NEW WEST RAIL BRIDGE OVER THE POTOMAC.
4. CONSTRUCT FUT. TK 3 & 4 FROM "RO" TO "LE NORTH."
5. BUILD "RO" 34 CROSSOVER.

OPERATIONS NOTES

NORMAL OPERATIONS

DURATION

18 MONTHS

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY <u>HNTB</u> CHECKED BY <u>HNTB</u> DRAWN BY <u>HNTB</u> PROJECT MGR. _____
"RO" TO "L'ENFANT" PHASING DIAGRAM - PHASE A, STAGE 6PHASE B PREWORK	DIVISION CHIEF DATE <u>5/5/2020</u> FILE _____ SHEET <u>35</u> OF <u>53</u>

PROGRESS PLANS
MAY 5, 2020

NO.			
DESCRIPTION		NAME	DATE
REVISIONS			

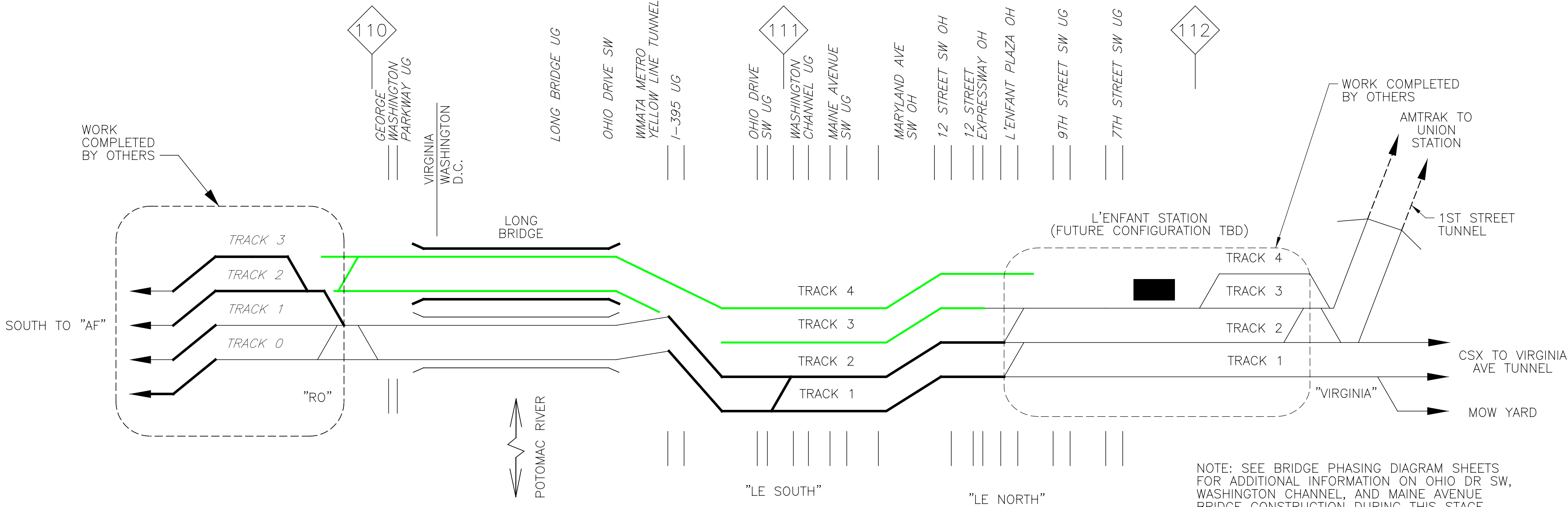
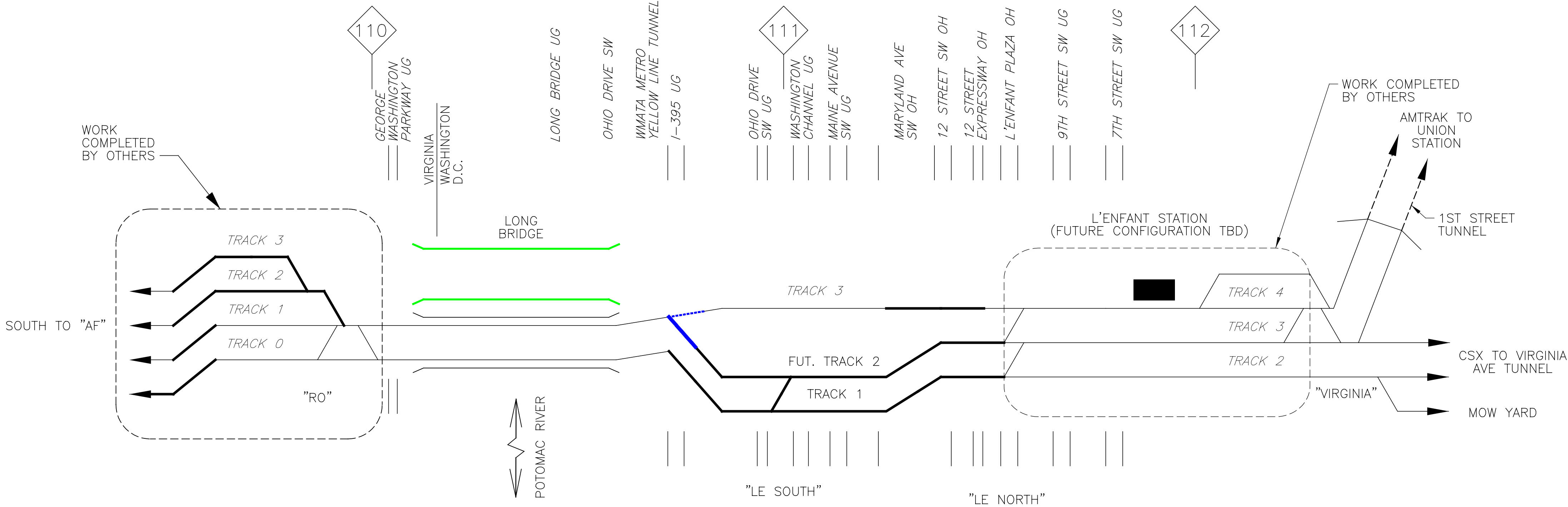


NOTE: COORDINATE TRACK NUMBERING WITH ADJACENT PROJECTS IN FUTURE PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE



NOTE: SEE BRIDGE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION ON OHIO DR SW, WASHINGTON CHANNEL, AND MAINE AVENUE BRIDGE CONSTRUCTION DURING THIS STAGE.

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-815	53

PHASE B
STAGE 1

CONSTRUCTION WORK

- BUILD TK 4 AT "RO" AND CONNECT.
- BUILD TK 4 AT "LE NORTH".
- CONSTRUCT TEMPORARY 34 CROSSOVER.

OPERATIONS NOTES

TRACK 4 OUT-OF-SERVICE "SLATERS LANE" TO "VIRGINIA"
SINGLE TRACK ACCESS TO CRYSTAL CITY STATION
SINGLE TRACK ACCESS TO L'ENFANT STATION

DURATION

THREE 55-HOUR WEEKEND OUTAGE

PHASE B
STAGE 2

CONSTRUCTION WORK

- CONNECT TK 3 AT "RO."

OPERATIONS NOTES

TRACK 3 OUT-OF-SERVICE "SLATERS LANE" TO "RO"
SINGLE TRACK ACCESS TO CRYSTAL CITY STATION

DURATION

ONE 55-HOUR WEEKEND OUTAGES

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK
NUMBERING WITH ADJACENT
PROJECTS IN FUTURE
PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020



NO	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		PROJECT ENG. _____ DESIGNED BY HNTB CHECKED BY HNTB DRAWN BY HNTB PROJECT MGR. _____
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE		DIVISION CHIEF
"RO" TO "L'ENFANT" PHASING DIAGRAM - PHASE B, STAGE 12		DATE 5/5/2020 FILE SHEET 36 OF 53

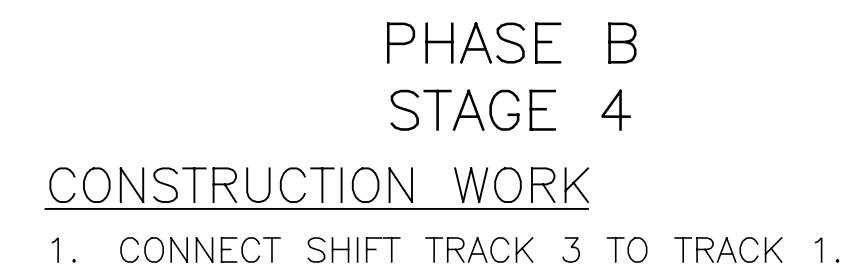
PHASE B
STAGE 3

CONSTRUCTION WORK

1. REMOVE TK3/2.
2. CONSTRUCT TEMPORARY TK 3 OVER
1-395 WITH TEMPORARY SHEETING AND
NEW ROADBED.










DURATION
THREE WEEKS



OPERATIONS NOTES
TRACKS 1, 2 & 3 OUT-OF-SERVICE "RO" TO "VIRGINIA"

DURATION
ONE NIGHT

 EXISTING TRACK/STRUCTURE
 RAISE AND SURFACE
 CONSTRUCT NEW
 TRACK TO BE SHIFTED
 AS SHIFTED
 REMOVE
 TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK
NUMBERING WITH ADJACENT
PROJECTS IN FUTURE
PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

<p align="center">D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION</p>	
<p align="center">LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE</p>	<p>PROJECT ENG. _____</p> <p>DESIGNED BY <u>HN1B</u></p> <p>CHECKED BY <u>HN1B</u></p> <p>DRAWN BY <u>HN1B</u></p> <p>PROJECT MGR. _____</p>
<p align="center">"RO" TO "L'ENFANT" PHASING DIAGRAM – PHASE B, STAGE 3/4</p>	<p align="center">DIVISION CHIEF</p> <p>DATE <u>5/5/2020</u></p> <p>FILE _____</p> <p>SHEET <u>27</u> OF <u>53</u></p>

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-817	53

PHASE C
STAGE 1

CONSTRUCTION WORK

1. DEMO I-395 EAST BRIDGE. CONSTRUCT NEW BRIDGE.
2. REMOVE TRACK 1; BUILD RETAINING WALLS, NEW ROADBED AND OFFLINE PORTIONS OF TRACK 1 AND 2.

OPERATIONS NOTES

NORMAL OPERATIONS

DURATION

17 MONTHS

PHASE C
STAGE 2

CONSTRUCTION WORK

1. RECONNECT TRACK 1 TO EAST BRIDGE
SHIFT TRACK 1 TO FINAL ALIGNMENT.

OPERATIONS NOTES

TRACKS 1, 2 & 3 OUT-OF-SERVICE "RO" TO "VIRGINIA"
SINGLE TRACK TO VIRGINIA AVENUE TUNNEL & TO UNION STATION

DURATION

ONE NIGHT

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK
NUMBERING WITH ADJACENT
PROJECTS IN FUTURE
PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY HNTB CHECKED BY HNTB DRAWN BY HNTB PROJECT MGR. _____
"RO" TO "L'ENFANT" PHASING DIAGRAM - PHASE C, STAGE 12	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 38 OF 53

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		T-818	53

PHASE C
STAGE 3

CONSTRUCTION WORK

1. CONNECT TRACK 2 & 3 TO FINAL ALIGNMENT.
2. REMOVE TEMPORARY 34 CROSSOVER.
INSTALL PERMANENT 34 CROSSOVER.

OPERATIONS NOTES

NORMAL OPERATIONS

DURATION

TWO DAYS

PHASE C
FINAL

CONSTRUCTION WORK

1. "L'ENFANT NORTH" INTERLOCKING AND "L'ENFANT SOUTH" INTERLOCKING CONFIGURATION IS ASSUMED FOR CONSTRUCTION STAGING PURPOSES ONLY. ACTUAL INTERLOCKINGS TO BE DETERMINED AT LATER PHASE IN COORDINATION WITH OTHER ACTIVE PROJECTS AND OPERATIONAL NEEDS.

OPERATIONS NOTES

4-TRACK CORRIDOR IN SERVICE
"RO" TO "VIRGINIA"

DURATION

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE: COORDINATE TRACK
NUMBERING WITH ADJACENT
PROJECTS IN FUTURE
PROJECT PHASES.

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
PHASING DIAGRAM -
PHASE C, STAGE 3FINAL

PROJECT ENG. _____
DESIGNED BY HNTB
CHECKED BY HNTB
DRAWN BY HNTB
PROJECT MGR. _____

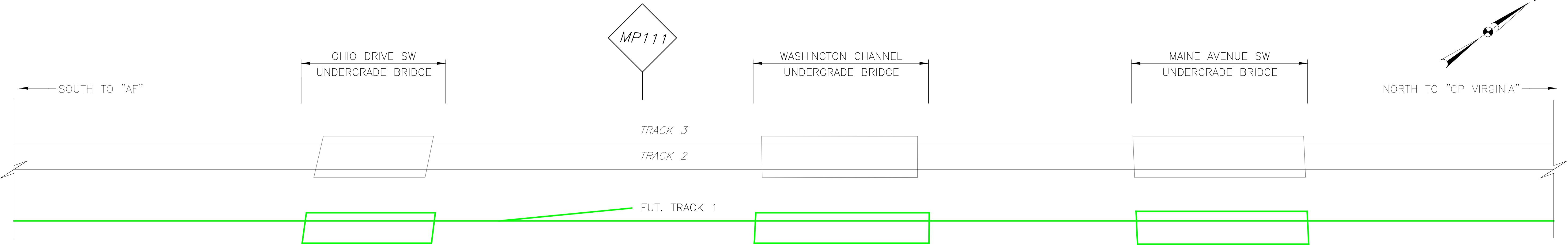
DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 39 OF 53

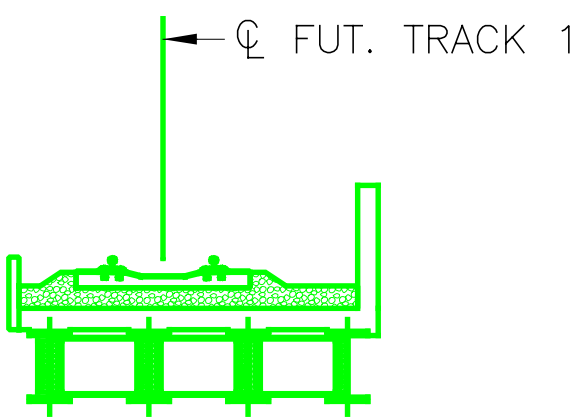
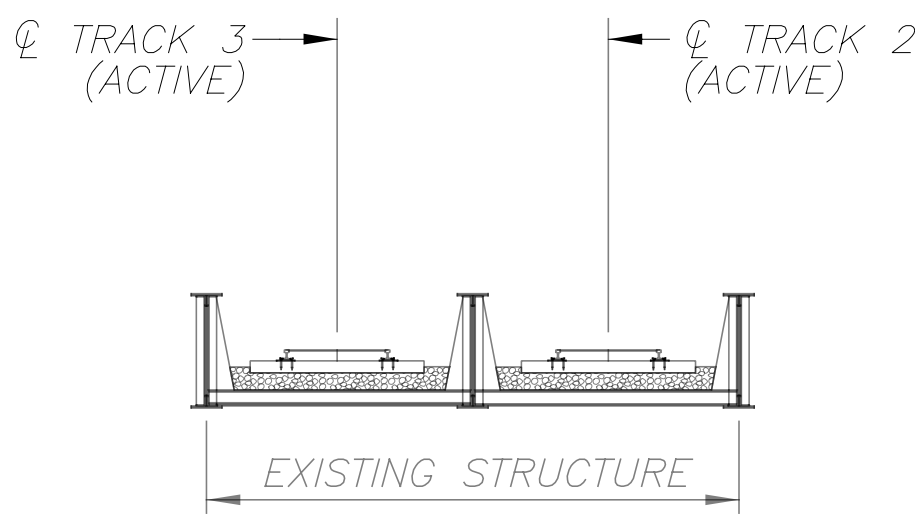
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5/5/2020

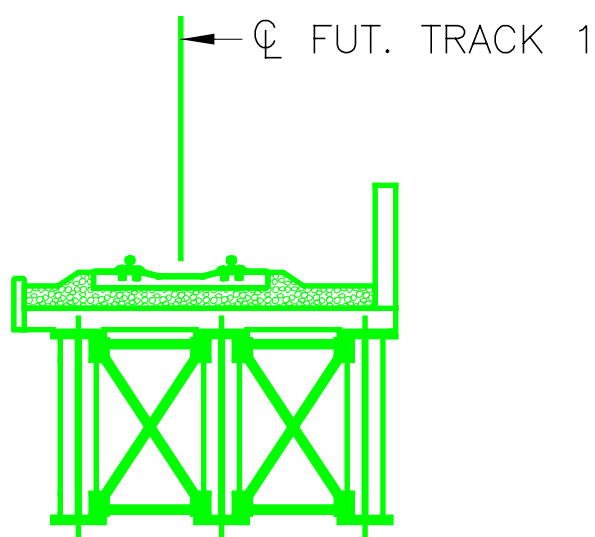
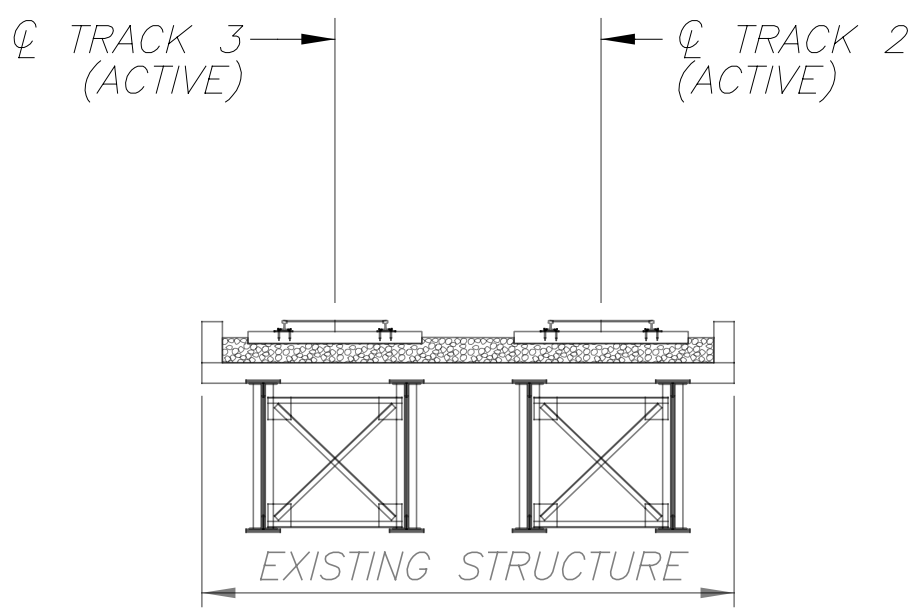
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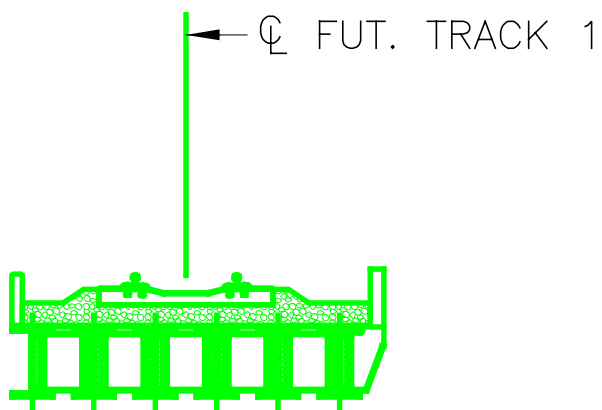
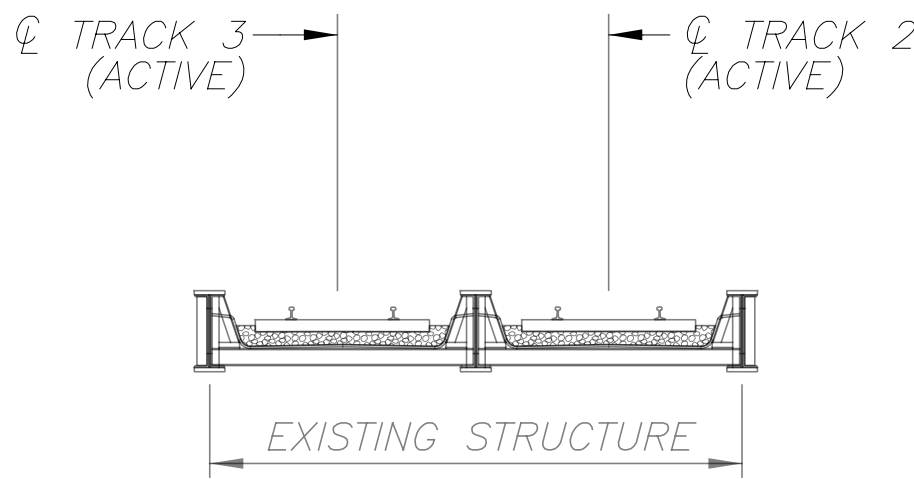
BRIDGE PHASING DIAGRAM
NOT TO SCALE



OHIO DRIVE SW UNDERGRADE BRIDGE



WASHINGTON CHANNEL UNDERGRADE BRIDGE



MAINE AVENUE SW UNDERGRADE BRIDGE

BRIDGE SECTIONS
NOT TO SCALE

- CONSTRUCTION LEGEND
- EXISTING TRACK/STRUCTURE
 - RAISE AND SURFACE
 - CONSTRUCT NEW
 - TRACK TO BE SHIFTED
 - AS SHIFTED
 - REMOVE TRACK/STRUCTURE
 - TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE:
ONLY BRIDGES BUILT VIA PHASED CONSTRUCTION SHOWN. SEE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.

PHASE A
PREWORK

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

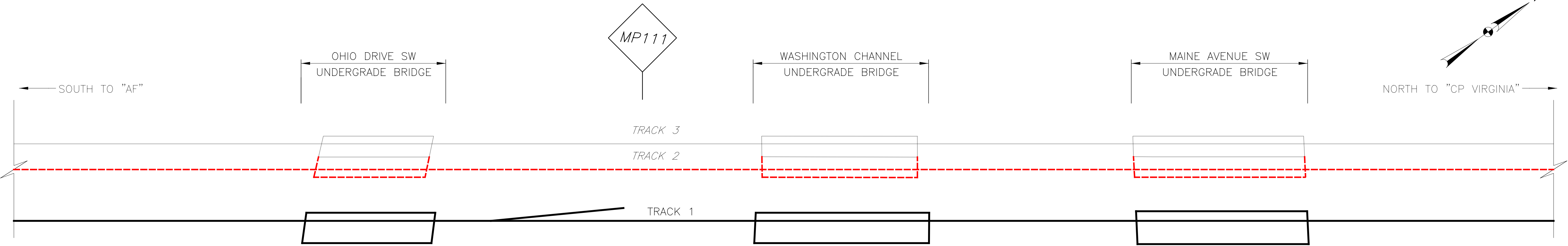
LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
BRIDGE PHASING DIAGRAM
PHASE A PREWORK

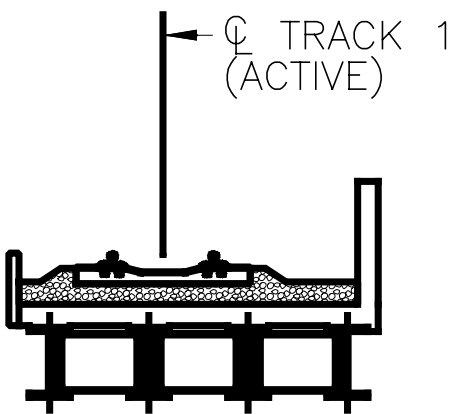
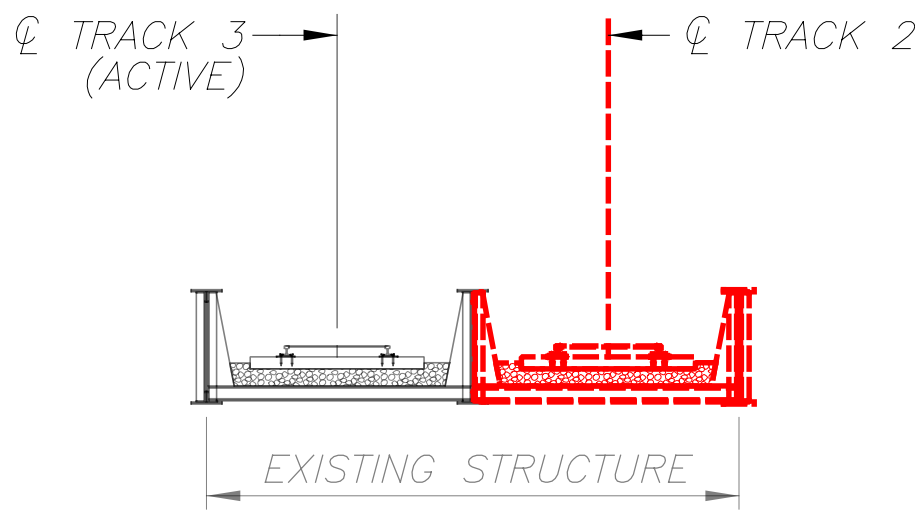
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CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____
DIVISION CHIEF
DATE 5/5/2020
FILE _____
SHEET 40 OF 53



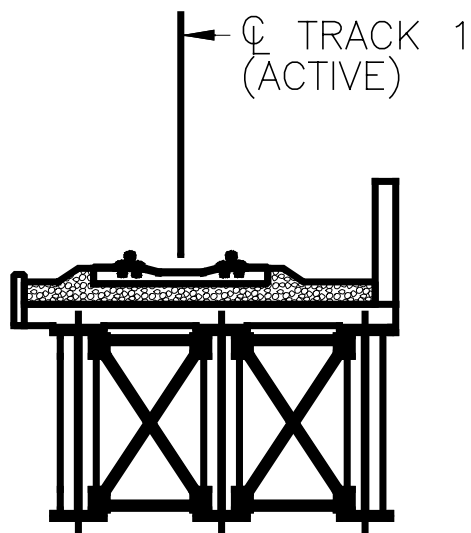
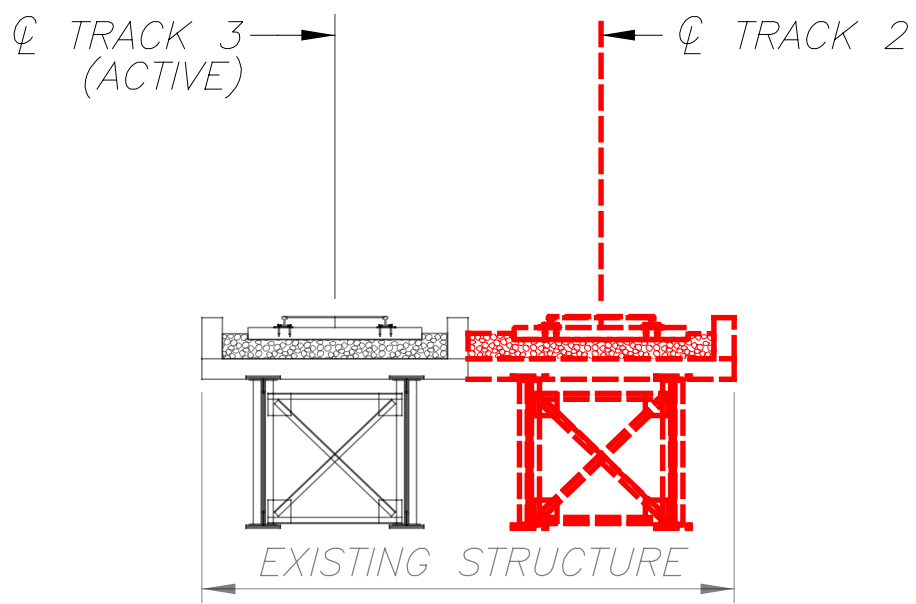
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



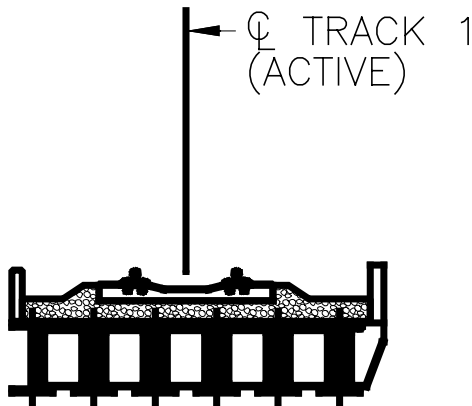
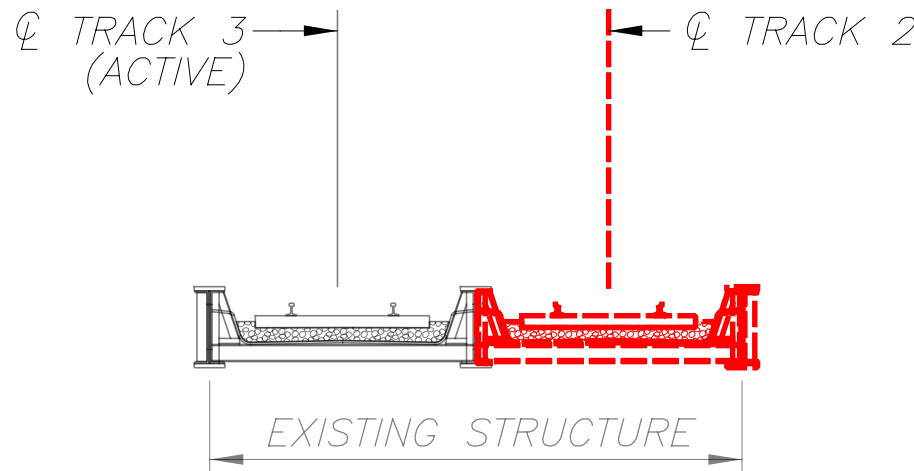
BRIDGE PHASING DIAGRAM
NOT TO SCALE



OHIO DRIVE SW UNDERGRADE BRIDGE



WASHINGTON CHANNEL UNDERGRADE BRIDGE



MAINE AVENUE SW UNDERGRADE BRIDGE

BRIDGE SECTIONS
NOT TO SCALE

- CONSTRUCTION LEGEND
- EXISTING TRACK/STRUCTURE
 - RAISE AND SURFACE
 - CONSTRUCT NEW
 - TRACK TO BE SHIFTED
 - AS SHIFTED
 - REMOVE TRACK/STRUCTURE
 - TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE:
ONLY BRIDGES BUILT VIA PHASED CONSTRUCTION SHOWN. SEE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.

PHASE A
STAGE 5 (1 OF 2)

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
BRIDGE PHASING DIAGRAM
PHASE A STAGE 5 (1 OF 2)

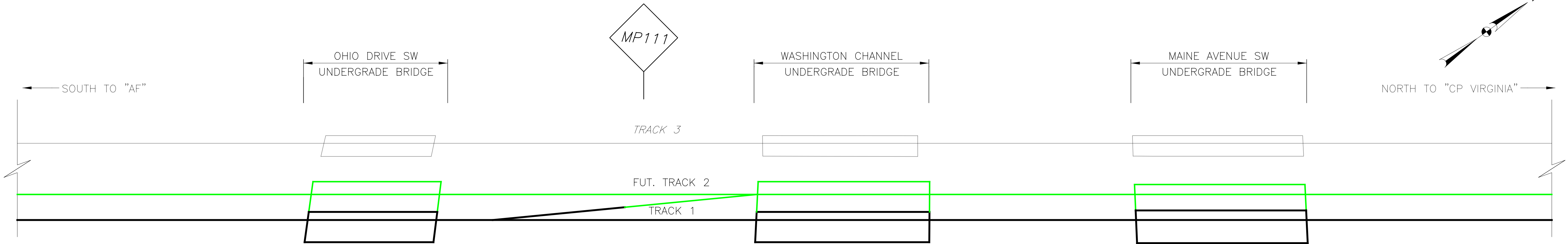
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DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

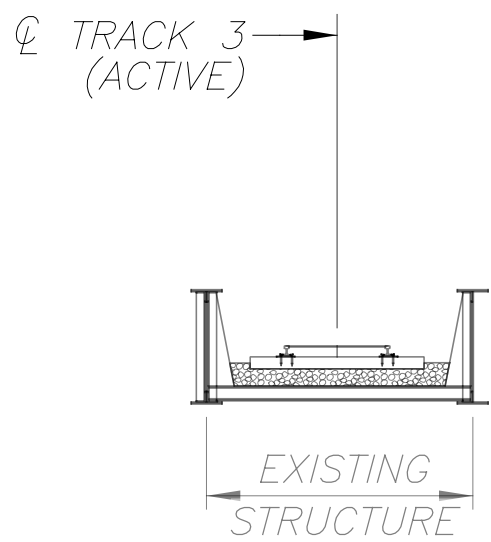
DATE 5/5/2020
FILE _____
SHEET 41 OF 53



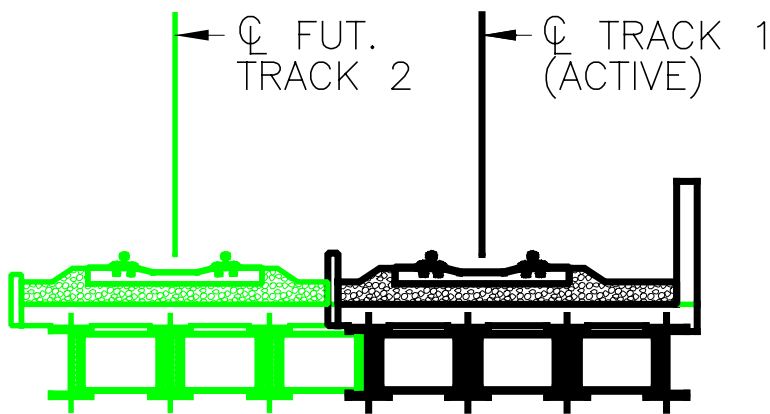
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REVISIONS			



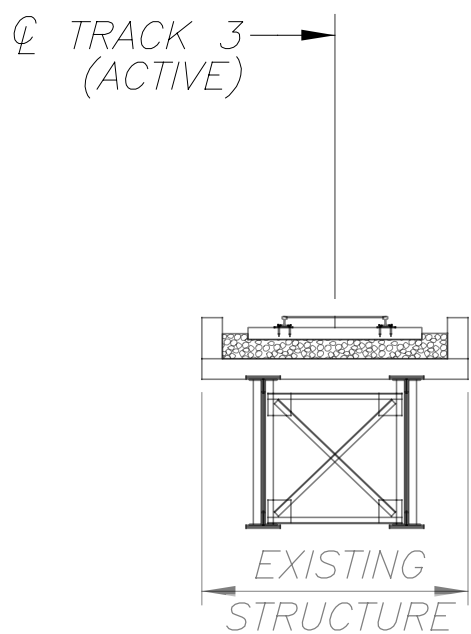
BRIDGE PHASING DIAGRAM
NOT TO SCALE



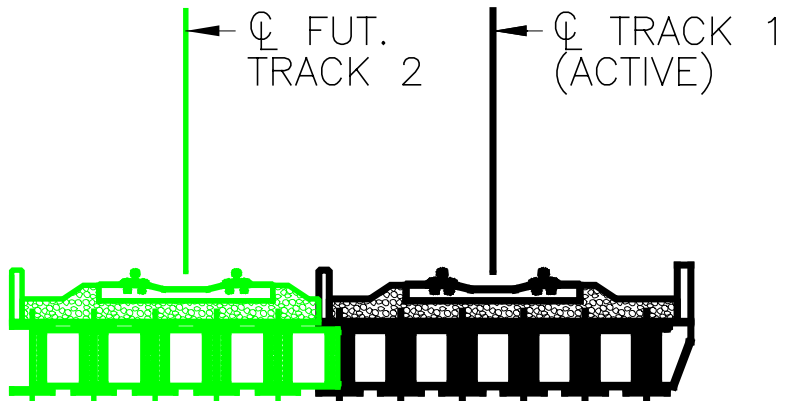
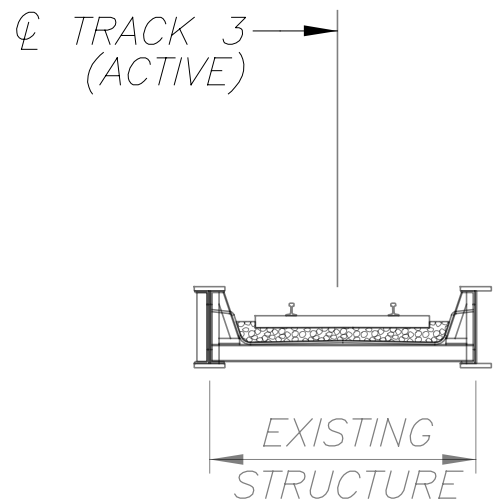
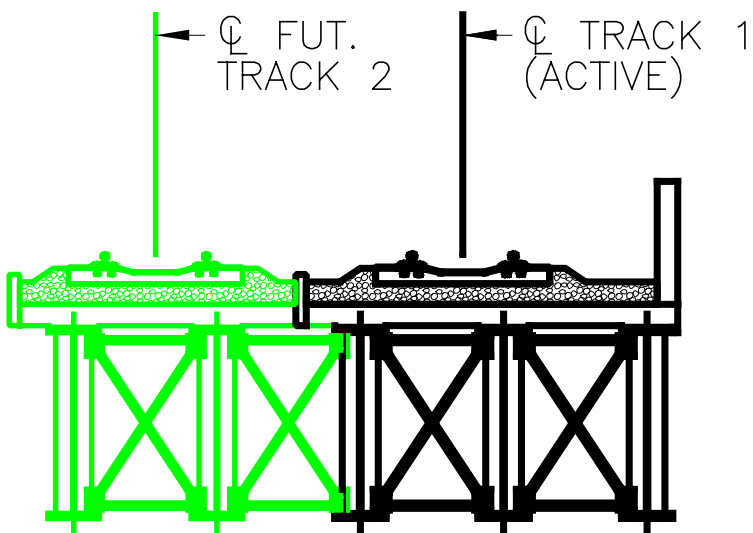
OHIO DRIVE SW UNDERGRADE BRIDGE



WASHINGTON CHANNEL UNDERGRADE BRIDGE



MAINE AVENUE SW UNDERGRADE BRIDGE



BRIDGE SECTIONS
NOT TO SCALE

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE TRACK/STRUCTURE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE:
ONLY BRIDGES BUILT VIA PHASED CONSTRUCTION SHOWN. SEE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.

PHASE A
STAGE 5 (2 OF 2)

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

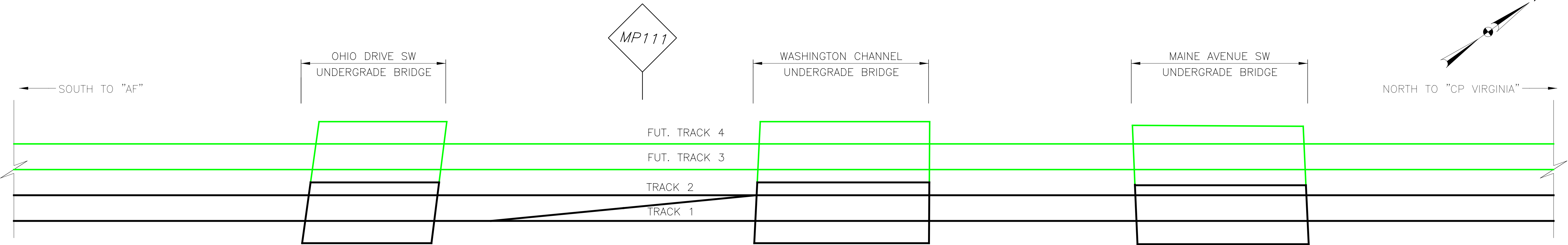
"RO" TO "L'ENFANT"
BRIDGE PHASING DIAGRAM
PHASE A STAGE 5 (2 OF 2)

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

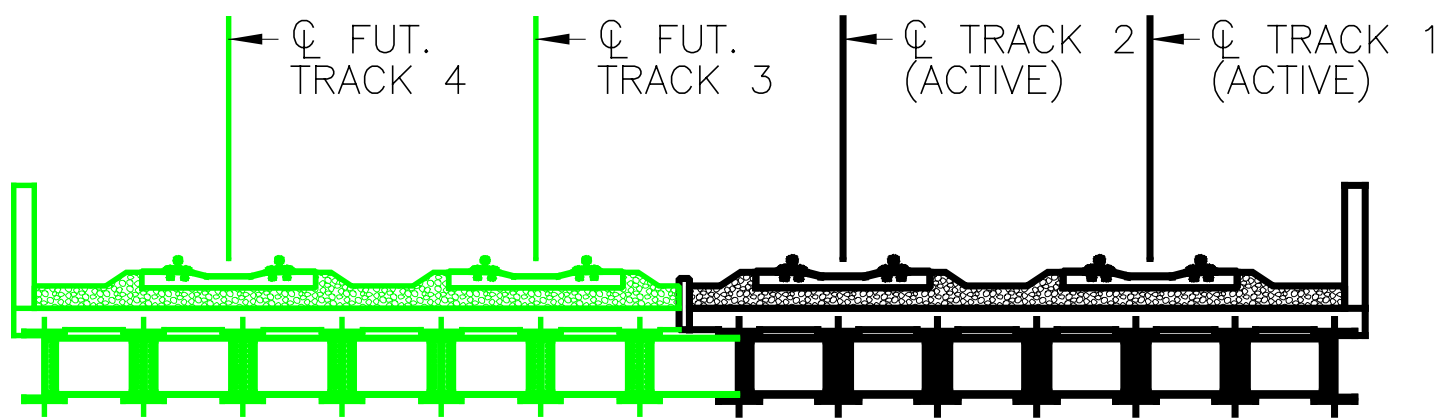
DIVISION CHIEF
DATE 5/5/2020
FILE
SHEET 42 OF 53



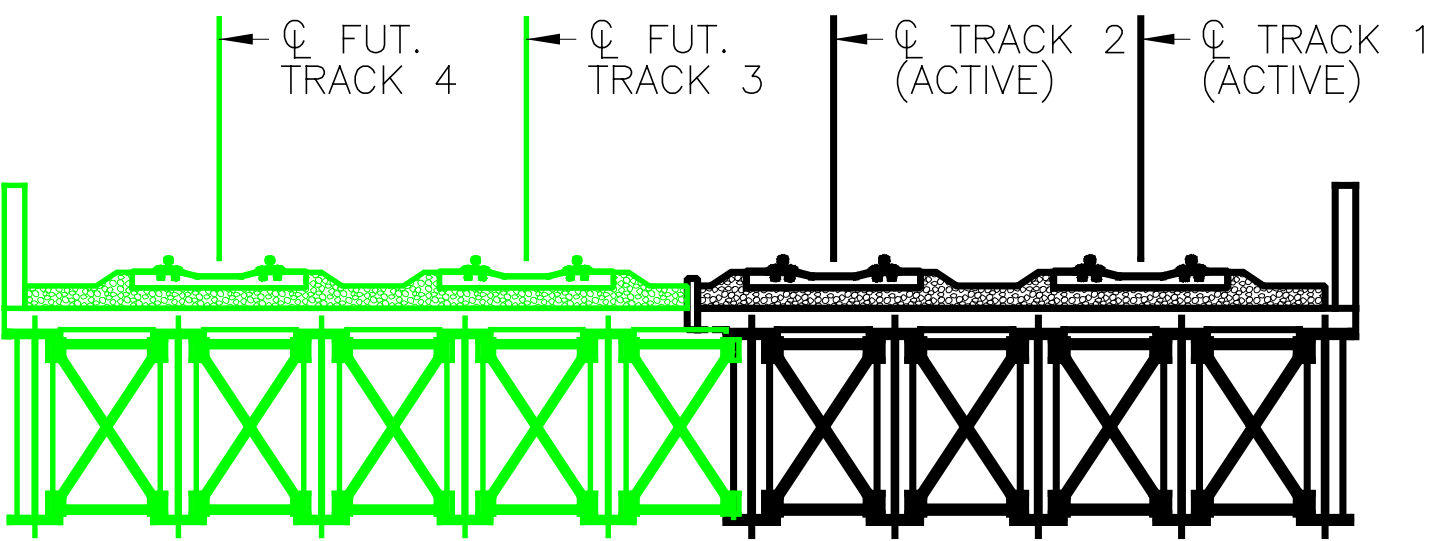
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



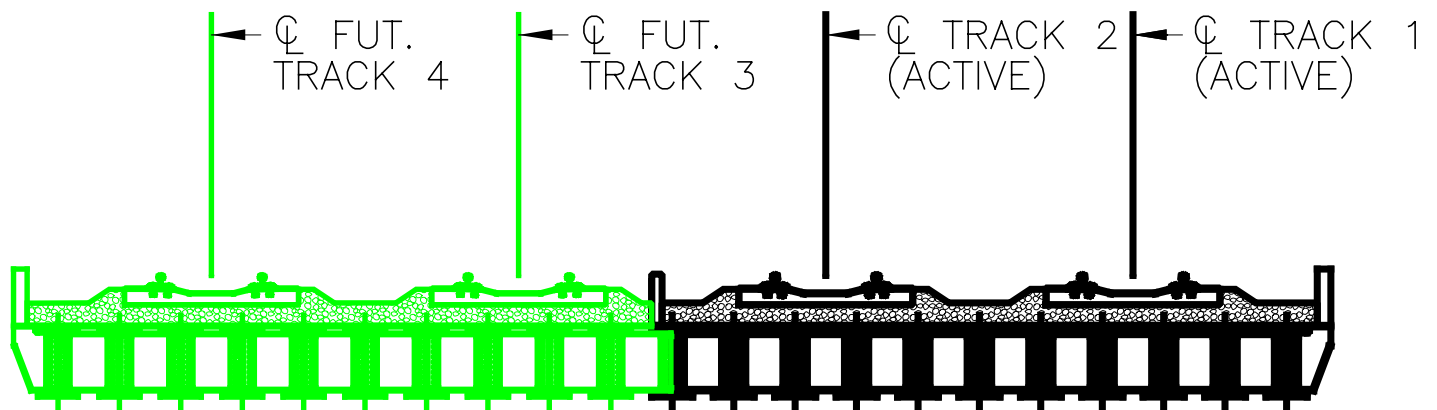
BRIDGE PHASING DIAGRAM
NOT TO SCALE



OHIO DRIVE SW UNDERGRADE BRIDGE



WASHINGTON CHANNEL UNDERGRADE BRIDGE



MAINE AVENUE SW UNDERGRADE BRIDGE

BRIDGE SECTIONS
NOT TO SCALE

CONSTRUCTION LEGEND

- EXISTING TRACK/STRUCTURE
- RAISE AND SURFACE
- CONSTRUCT NEW
- TRACK TO BE SHIFTED
- AS SHIFTED
- REMOVE TRACK/STRUCTURE
- TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE:
ONLY BRIDGES BUILT VIA PHASED CONSTRUCTION SHOWN. SEE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.

PHASE B
PREWORK (2 OF 2)

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

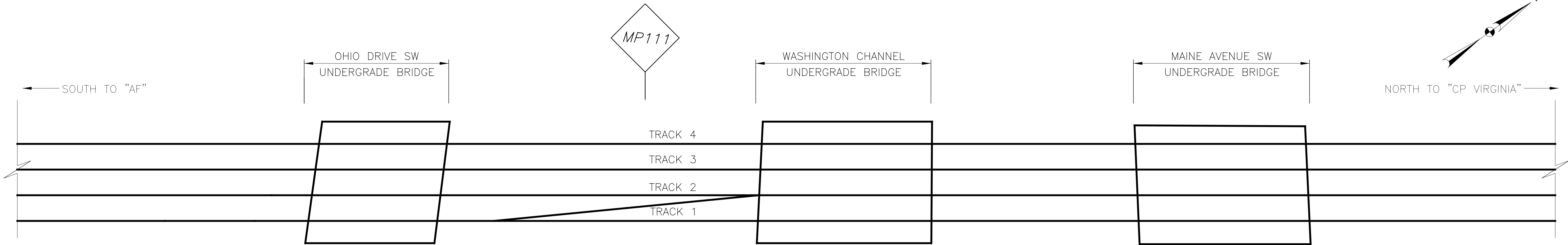
"RO" TO "L'ENFANT"
BRIDGE PHASING DIAGRAM
PHASE B PREWORK (2 OF 2)

PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

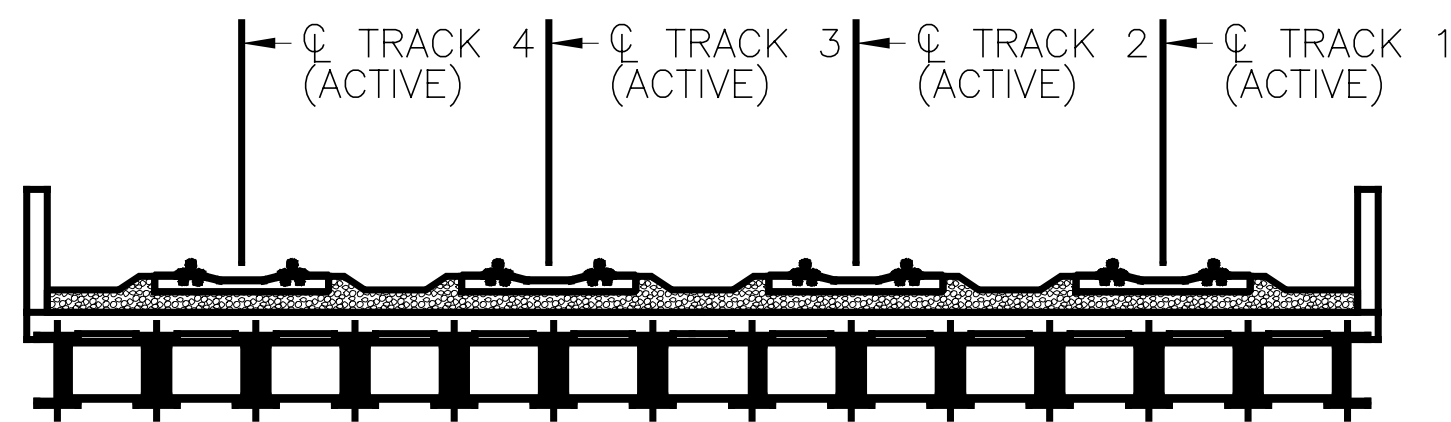
DIVISION CHIEF
DATE 5/5/2020
FILE
SHEET 44 OF 53



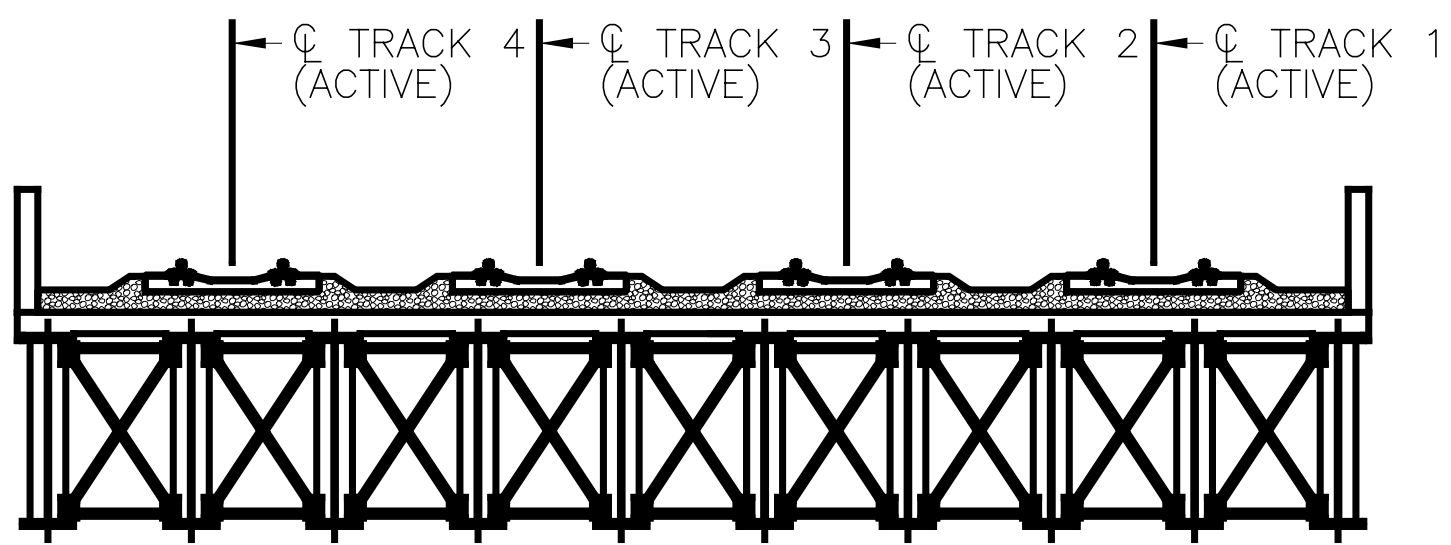
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REVISIONS			



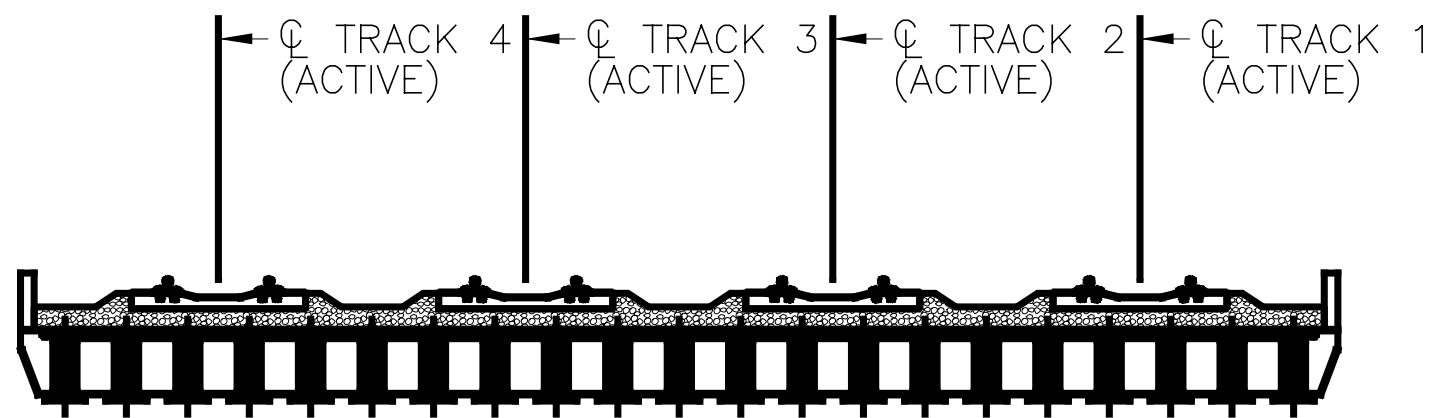
BRIDGE PHASING DIAGRAM
NOT TO SCALE



OHIO DRIVE SW UNDERGRADE BRIDGE



WASHINGTON CHANNEL UNDERGRADE BRIDGE



MAINE AVENUE SW UNDERGRADE BRIDGE

BRIDGE SECTIONS
NOT TO SCALE

- CONSTRUCTION LEGEND
- EXISTING TRACK/STRUCTURE
 - RAISE AND SURFACE
 - CONSTRUCT NEW
 - TRACK TO BE SHIFTED
 - AS SHIFTED
 - REMOVE TRACK/STRUCTURE
 - TRACK/STRUCTURE COMPLETED IN EARLIER PHASE

NOTE:
ONLY BRIDGES BUILT VIA PHASED CONSTRUCTION SHOWN. SEE PHASING DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.

PHASE C
FINAL

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

"RO" TO "L'ENFANT"
BRIDGE PHASING DIAGRAM
PHASE C FINAL

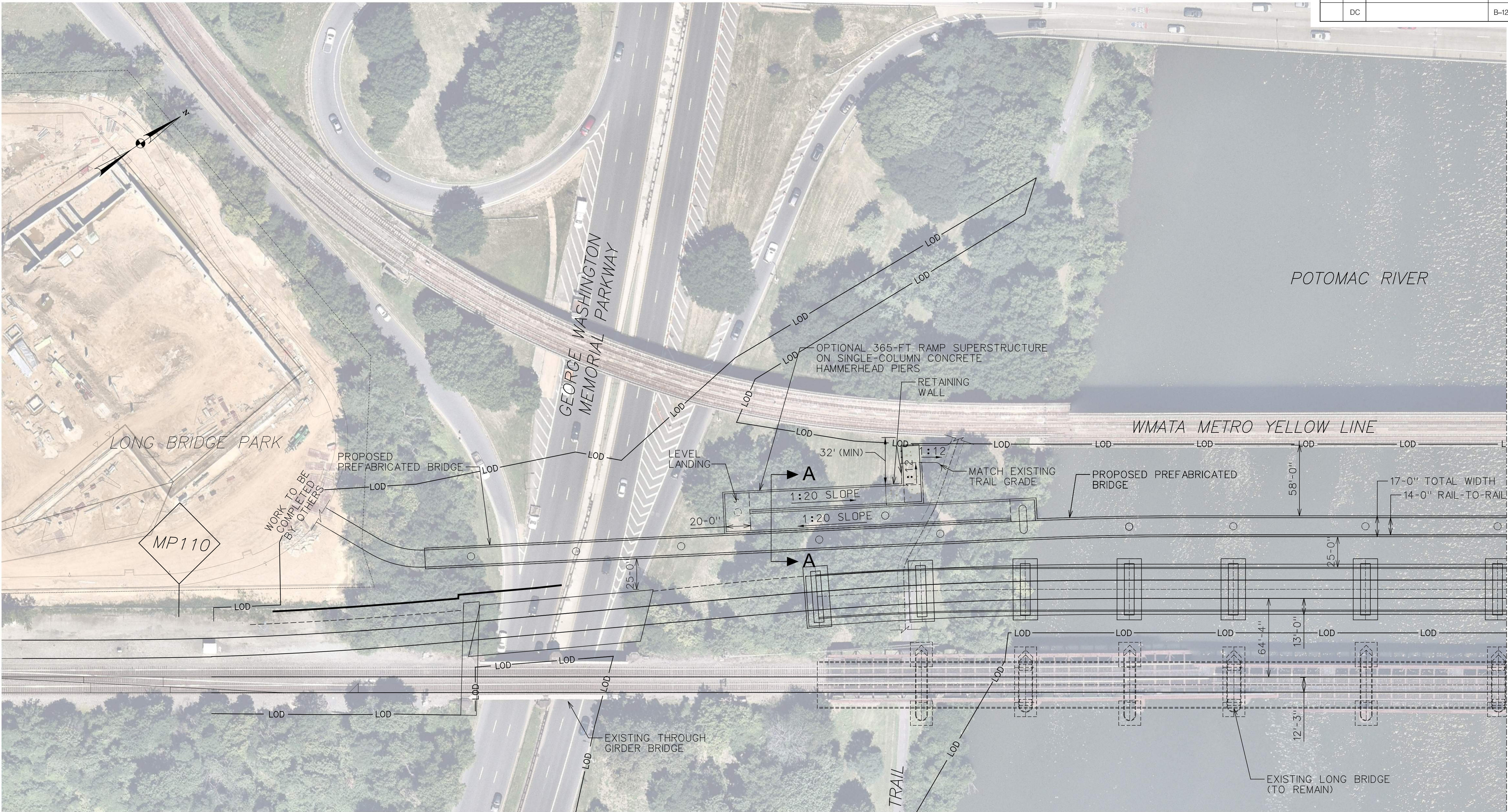
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DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 45 OF 53

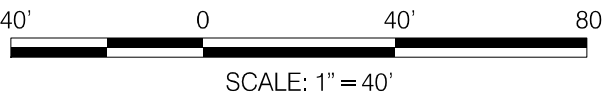


NO.	DESCRIPTION	NAME	DATE
REVISIONS			




BIKE-PEDESTRIAN PLAN

NOTE: SEE SHEETS B-301 AND B-302 FOR TYPICAL SECTIONS.



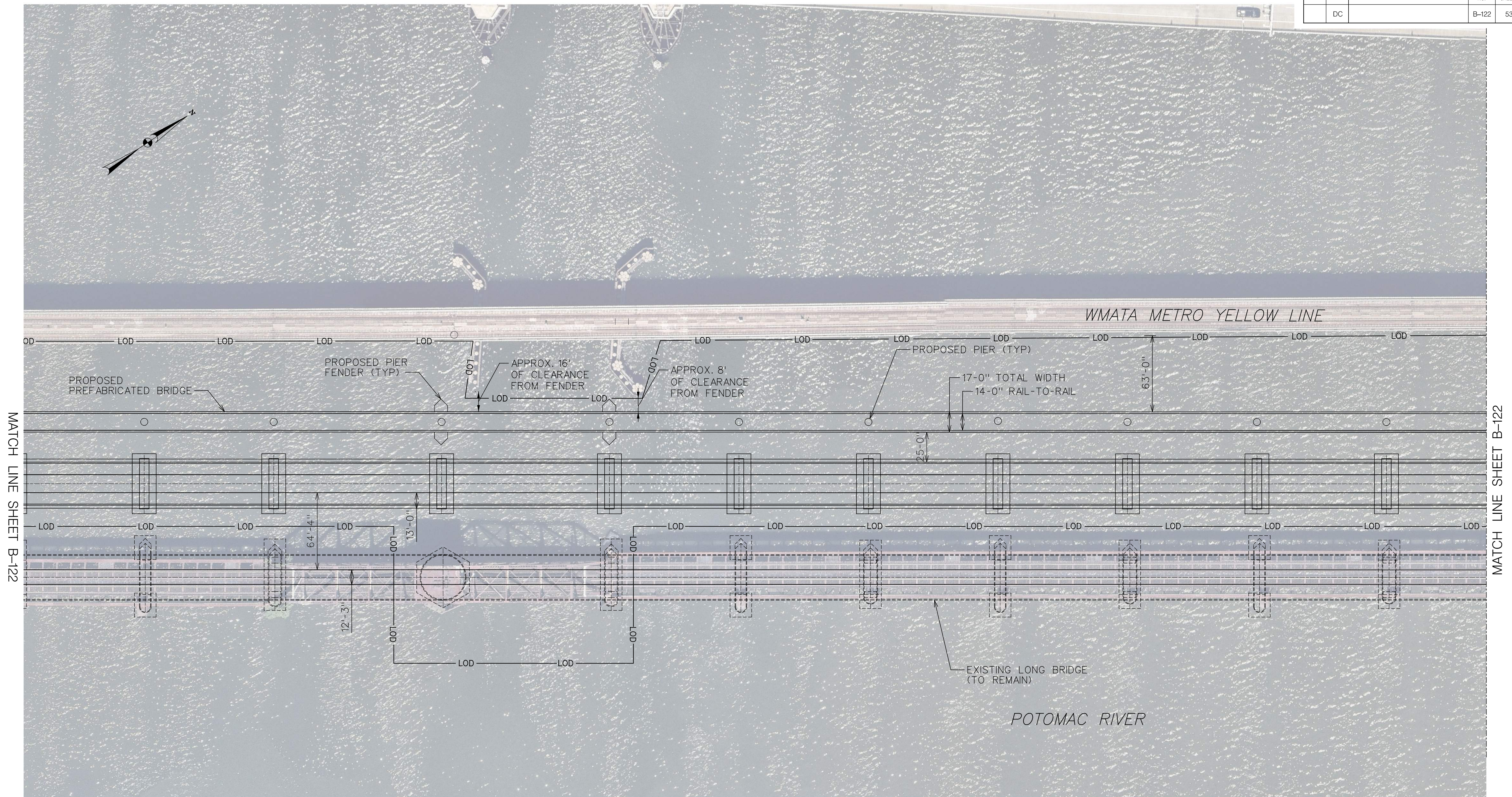
PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020

			
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY: VHB CHECKED BY: VHB DRAWN BY: VHB PROJECT MGR. _____
BIKE-PEDESTRIAN BRIDGE PLAN (1 OF 3)	DIVISION CHIEF DATE: 5/5/2020 FILE: _____ SHEET 46 OF 53

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		B-122	53



BIKE-PEDESTRIAN PLAN

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

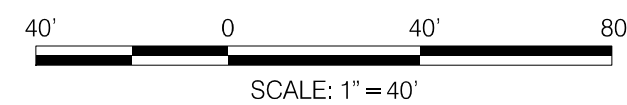
PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

BIKE-PEDESTRIAN BRIDGE
PLAN (2 OF 3)

DATE 5/5/2020
FILE _____
SHEET 47 OF 53

NOTE: SEE SHEETS B-301 AND
B-302 FOR TYPICAL SECTIONS.

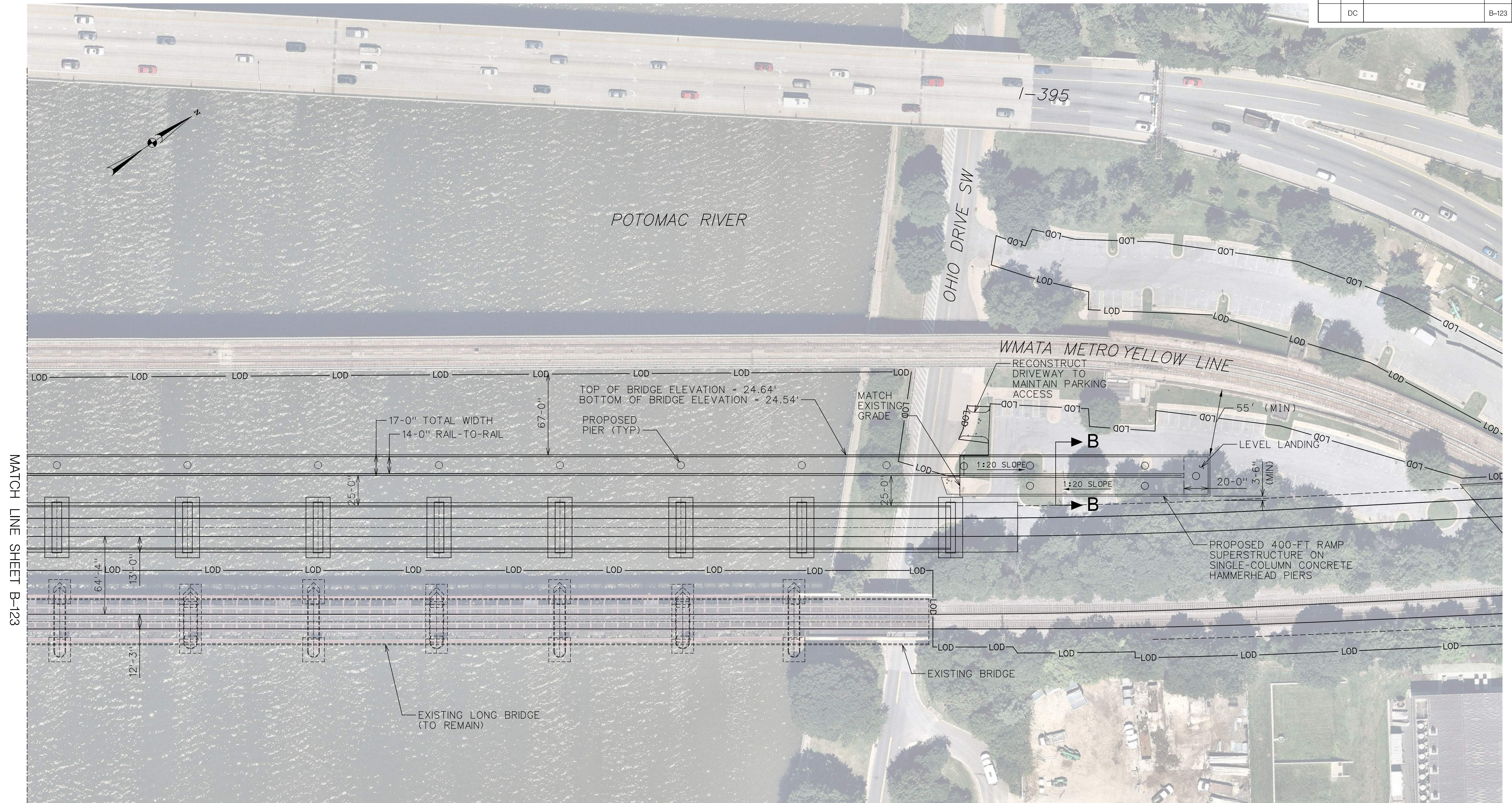


PRELIMINARY - NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		B-123	53



BIKE-PEDESTRIAN PLAN

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

BIKE-PEDESTRIAN BRIDGE
PLAN (3 OF 3)

PROJECT ENG. _____
DESIGNED BY VHB
CHECKED BY VHB
DRAWN BY VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020

FILE _____

SHEET 48 OF 53

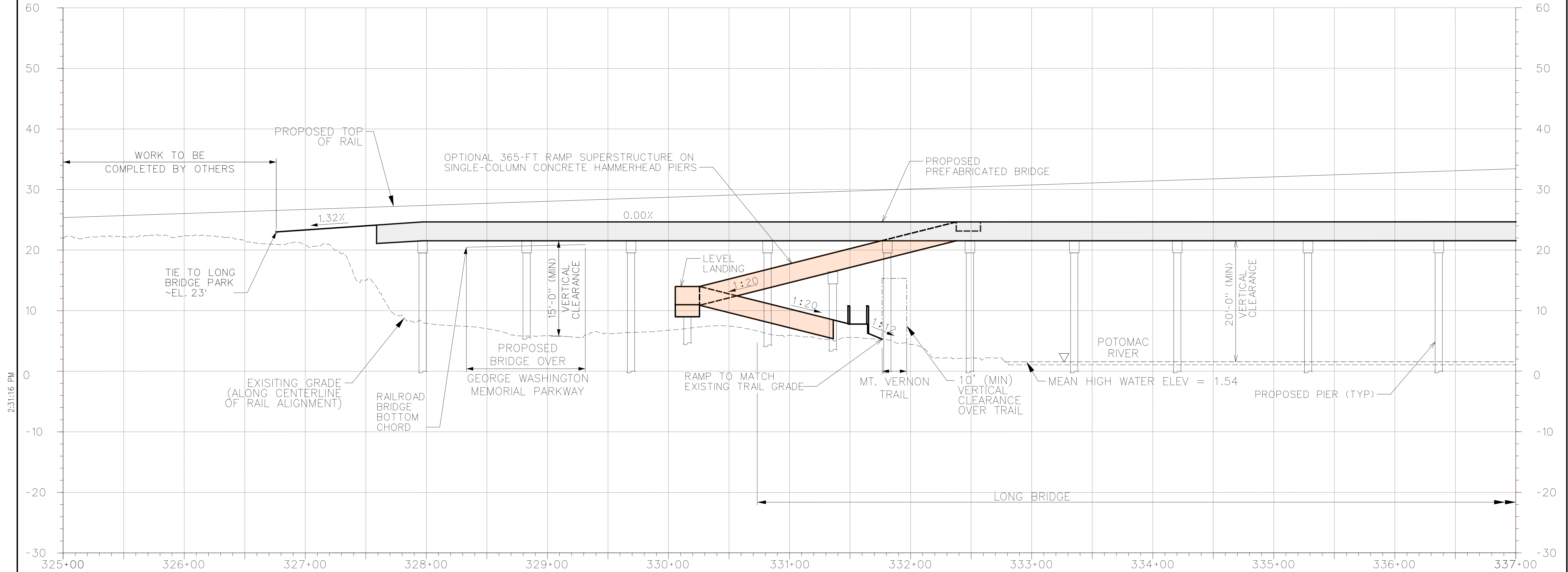
NOTE: SEE SHEETS B-301 AND
B-302 FOR TYPICAL SECTIONS.



PRELIMINARY - NOT FOR CONSTRUCTION



NO	DESCRIPTION	NAME	DATE
REVISIONS			



INDEPENDENT UPSTREAM BIKE-PEDESTRIAN PROFILE
(STA 325+00 - 337+00)

SCALE:
HORIZONTAL 1" = 40'-00"
VERTICAL 1" = 8'-00"

- NOTES:
1. STATIONING BASED ON RAILROAD ALIGNMENT. HIGHEST PROPOSED TOP OF RAIL SHOWN.
 2. BICYCLE RIDERS TO DISMOUNT FOR RAMP ACCESS.

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

BIKE-PEDESTRIAN BRIDGE
PROFILE (1 OF 3)

PROJECT ENG. _____
DESIGNED BY _____ VHB
CHECKED BY _____ VHB
DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 49 OF 53

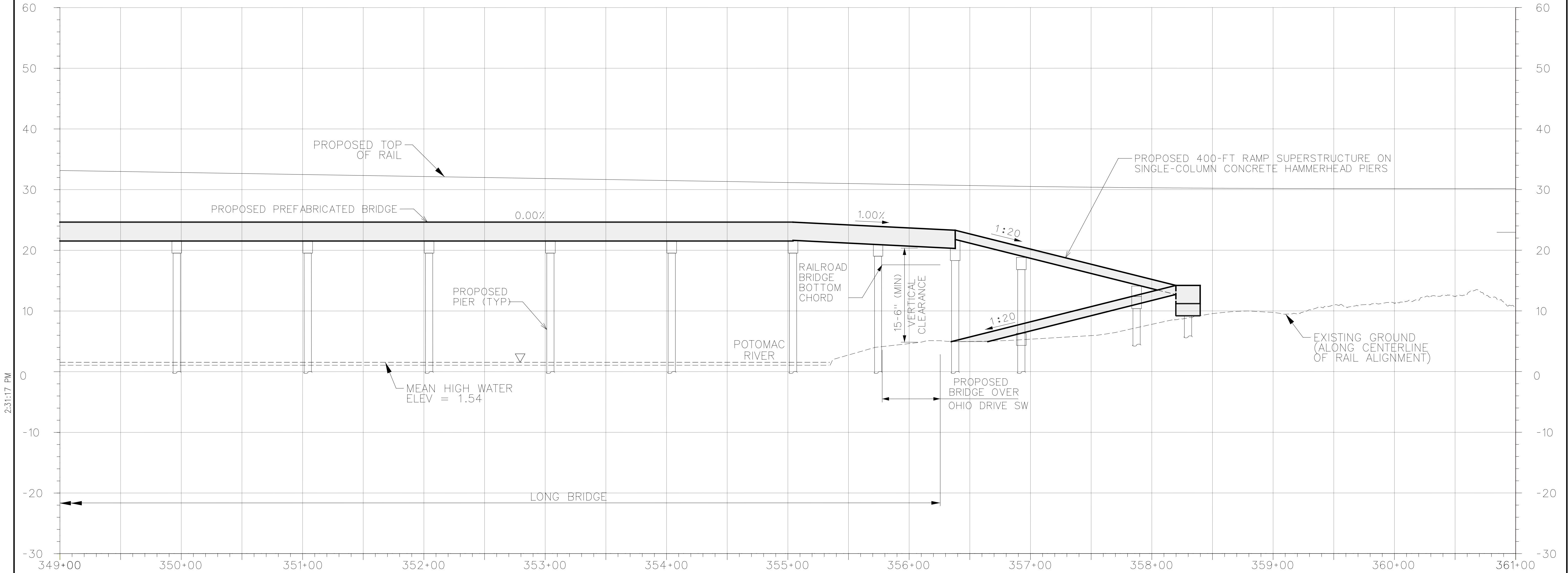


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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5/5/2020

bdr_pro.dgn
localuser



INDEPENDENT UPSTREAM BIKE-PEDESTRIAN PROFILE
(STA 349+00 - 361+00)

SCALE:
HORIZONTAL 1" = 40'-00"
VERTICAL 1" = 8'-00"

- NOTES:
1. STATIONING BASED ON RAILROAD ALIGNMENT. HIGHEST PROPOSED TOP OF RAIL SHOWN.
 2. BICYCLE RIDERS TO DISMOUNT FOR RAMP ACCESS.

PROGRESS PLANS
MAY 5, 2020

PRELIMINARY - NOT FOR CONSTRUCTION

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

BIKE-PEDESTRIAN BRIDGE
PROFILE (3 OF 3)

PROJECT ENG. _____
DESIGNED BY _____ VHB
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DRAWN BY _____ VHB
PROJECT MGR. _____

DIVISION CHIEF

DATE 5/5/2020
FILE
SHEET 51 OF 53



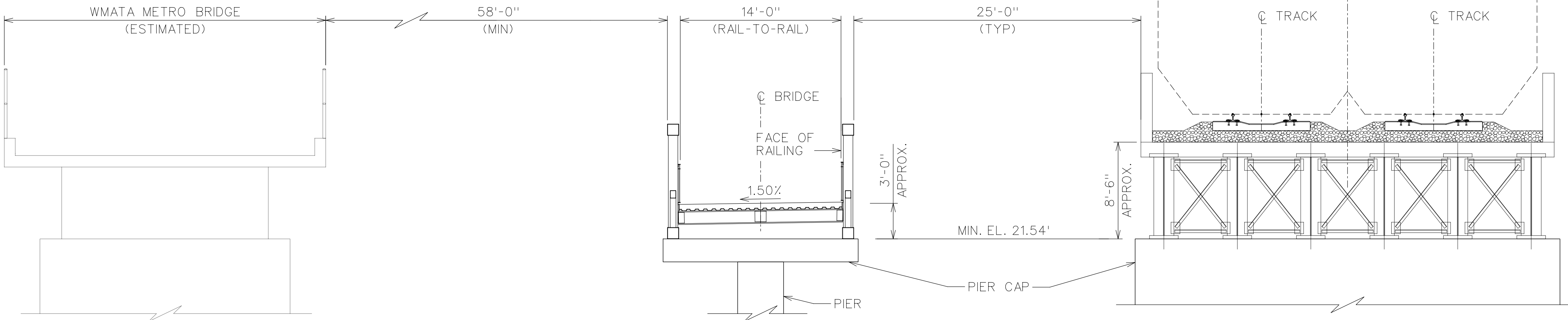
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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5/5/2020

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localuser

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
	DC		B-301	53



UPSTREAM INDEPENDENT BIKE-PEDESTRIAN BRIDGE
LOOKING NORTH
SCALE $\frac{3}{16}" = 1'-0"$

PRELIMINARY - NOT FOR CONSTRUCTION

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

LONG BRIDGE PROJECT EIS
PREFERRED ALTERNATIVE

PROJECT ENG.	_____
DESIGNED BY	VHB
CHECKED BY	VHB
DRAWN BY	VHB
PROJECT MGR.	_____

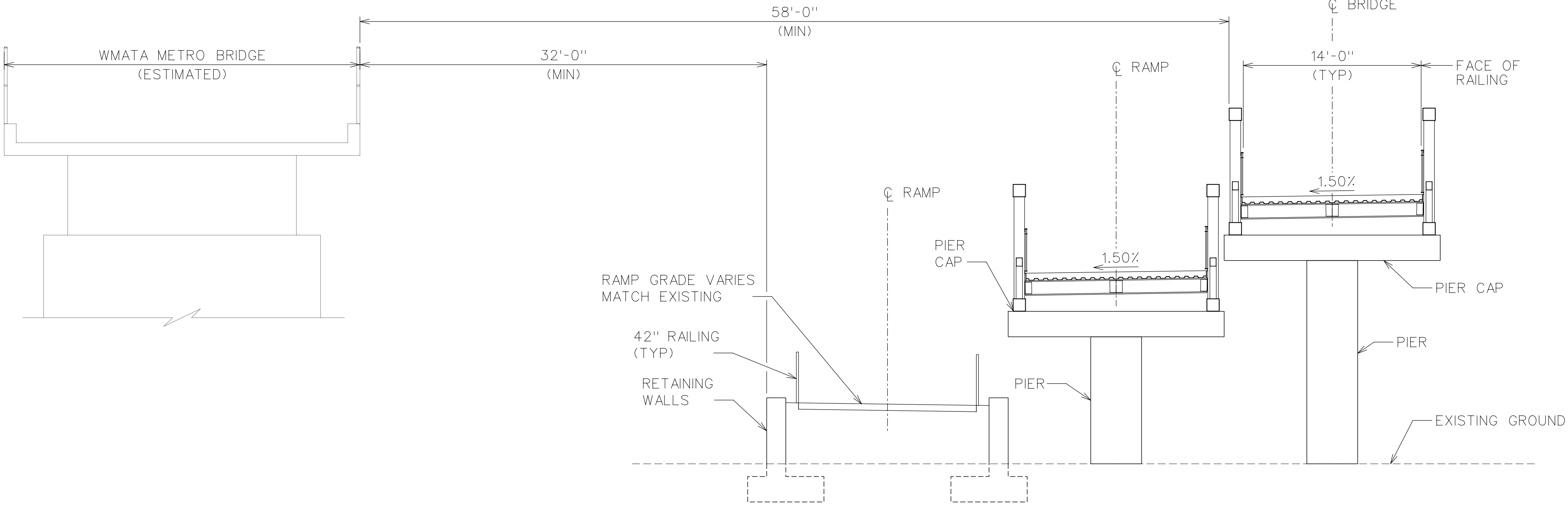
BIKE-PEDESTRIAN BRIDGE
SECTION (1 OF 2)

DIVISION CHIEF			
DATE <u>5/5/2020</u>			
FILE <u></u>			
SHEET	52	OF	53

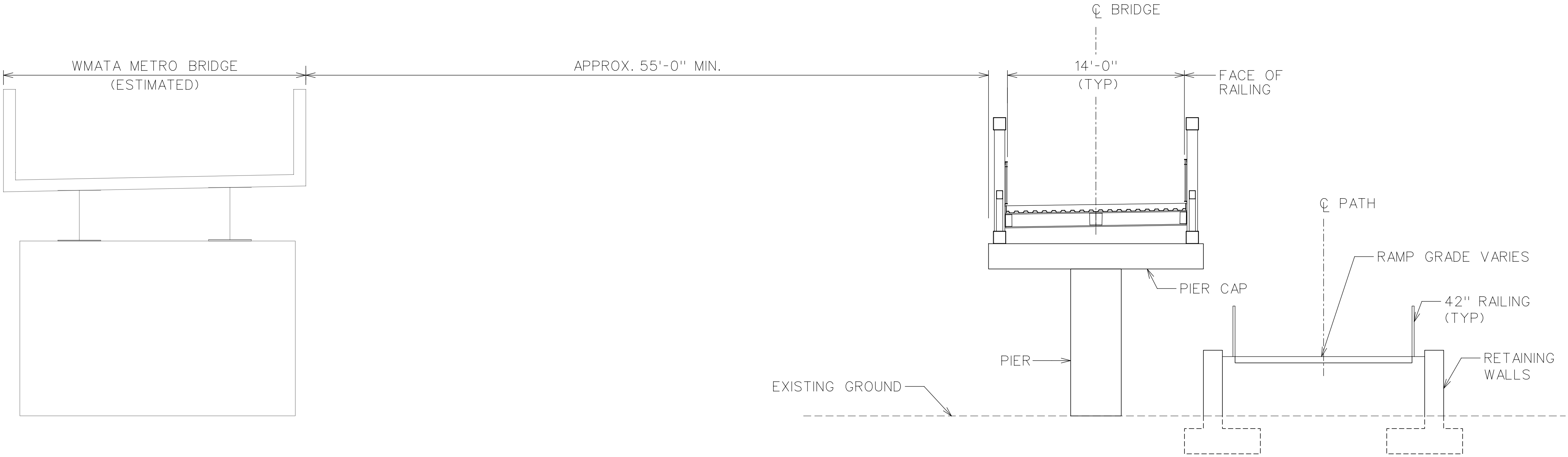


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

NOTE: RAILROAD BRIDGE SECTION DEPICTS THE STEEL DECK THROUGH GIRDER APPROACH SPAN OPTION.



SECTION A-A
(SOUTH APPROACH - VIRGINIA)
LOOKING NORTH
SCALE 3/16" = 1'-0"



SECTION B-B
(NORTH APPROACH - DISTRICT)
LOOKING NORTH
SCALE 3/16" = 1'-0"

PROGRESS PLANS
MAY 5, 2020

D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
LONG BRIDGE PROJECT EIS PREFERRED ALTERNATIVE	PROJECT ENG. _____ DESIGNED BY VHB CHECKED BY VHB DRAWN BY VHB PROJECT MGR. _____
BIKE-PEDESTRIAN BRIDGE SECTION (2 OF 2)	DIVISION CHIEF DATE 5/5/2020 FILE SHEET 53 OF 53

PRELIMINARY - NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE
REVISIONS			