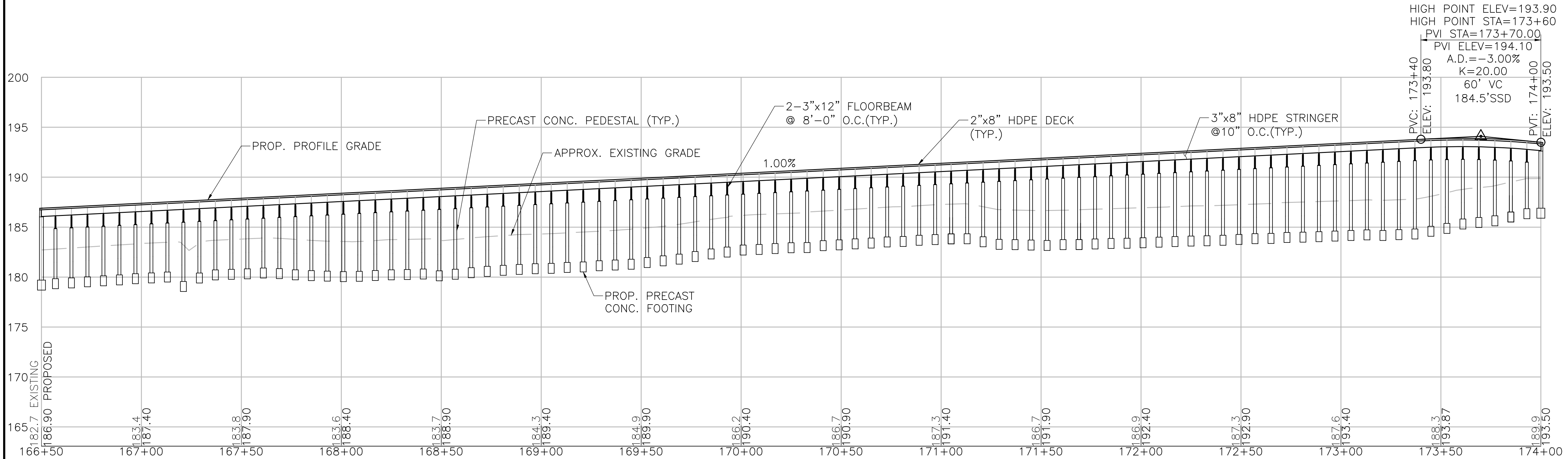
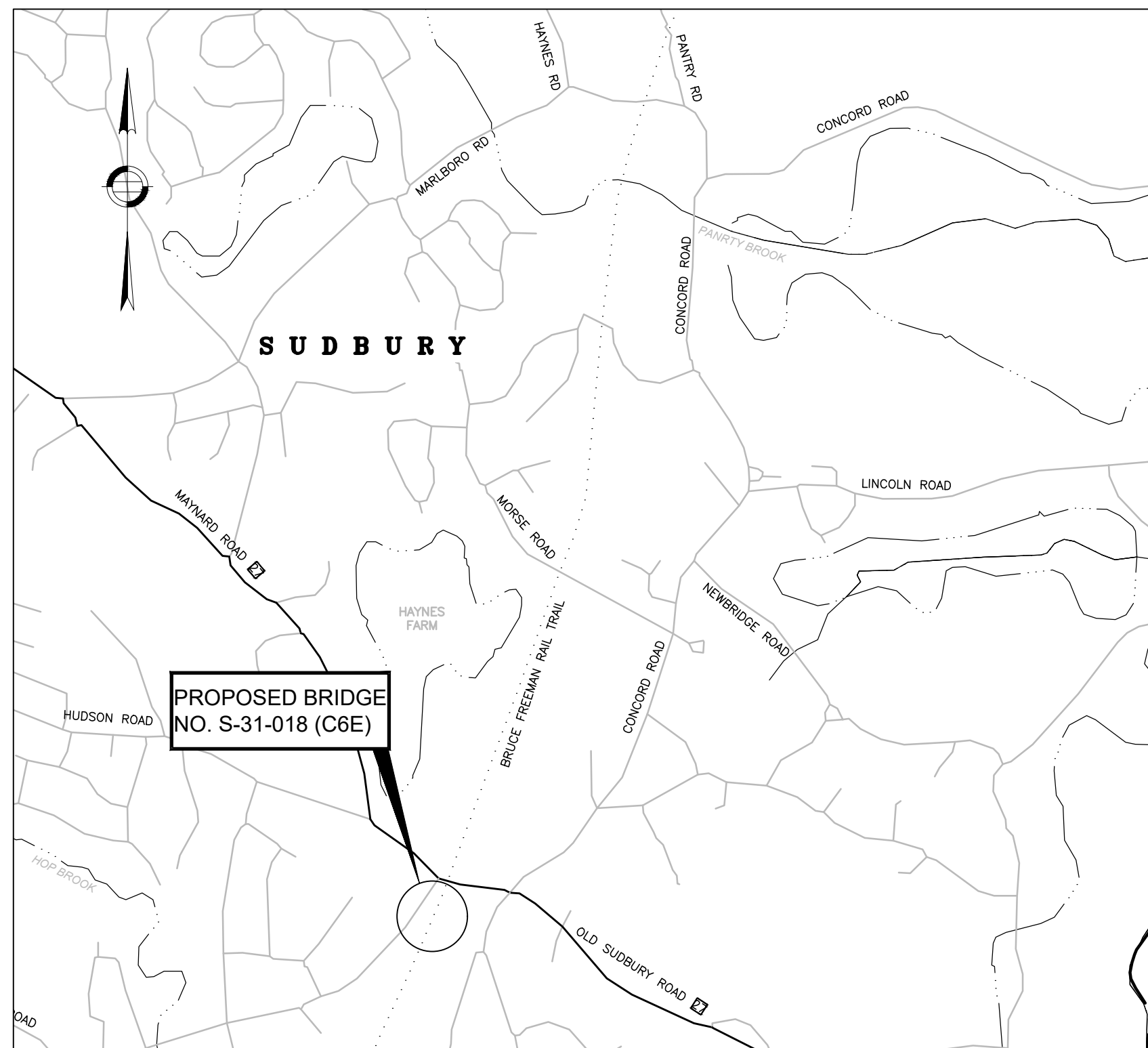


KEY PLAN
SCALE: 1"=30'-0"



PROFILE ALONG BIKE PATH
HORIZONTAL SCALE: 1"=30'-0"
VERTICAL SCALE: 1" = 6'-0"



LOCUS
SCALE: 1"=1200'-0"

DESIGN

IN ACCORDANCE WITH THE 2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2009 AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2015 FOR H10 VEHICULAR OR 90 PSF PEDESTRIAN LOADINGS.

NOTES:

- APPROVAL DOES NOT INCLUDE STRUCTURAL ANALYSIS.
- DIMENSIONS OF STRUCTURAL MEMBERS ARE APPROXIMATE, AND WILL BE FINALIZED DURING THE FINAL DESIGN PHASE.
- SEE GEOTECHNICAL REPORT, DATED APRIL 2020.
- SEISMIC DESIGN CRITERIA:
DESIGN RETURN PERIOD:
DESIGN SPECTRA:
 $A_s = 0.11$
 $S_{ps} = 0.23$
 $S_{p1} = 0.09$
SITE CLASS = D
SEISMIC DESIGN CATEGORY (SDC) = A
- HYDRAULIC REPORT NOT REQUIRED.
- NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.

JACOBS
120 ST. JAMES AVENUE, 5TH FL
BOSTON MA, 02116

massDOT
Massachusetts Department of Transportation
Highway Division

SKETCH PLANS OF
PROPOSED BRIDGE
SUDBURY

PROPOSED BOARDWALK

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

APPROVED BY	DATE
STRUCTURAL ELEMENTS: <i>John J. Bechard</i> TITLE: State Bridge Engineer	6/25/2020
HIGHWAY ELEMENTS: <i>John J. Bechard</i> TITLE: Deputy Chief Engineer	Jun 25, 2020

				PROJECT Bruce Freeman Rail Trail				BORING NO.		BB-105																																																																																																																			
				LOCATION Sudbury, MA						SHEET 1 OF 1																																																																																																																			
OWNER MASSDOT				CONTRACTOR NEBC				DRILLER B. Cross		ELEVATION 189																																																																																																																			
JOB NUMBER E2X81800				GROUNDWATER READINGS				DRILL RIG Mobile B-53		DATUM NAVD 88																																																																																																																			
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Page 1: 0-35 feet. Each subsequent page displays 40 feet. NOTES																																																																																																																													

LOG OF TEST BORING

JACOBS				PROJECT LOCATION OWNER JOB NUMBER					Bruce Freeman Rail Trail Sudbury, MA MASSDOT E2X81800			BORING NO.		BB-106		
INSPECTOR S. Ramesh				CONTRACTOR NEBC					DRILLER DRILL RIG		B. Cross Mobile B-53		SHEET 1 OF 1			
METHOD OF DRILLING				GROUNDWATER READINGS					DRILL RIG		Mobile B-53		ELEVATION DATUM		188 NAVD 88	
0.0 Split Spoon Sample				DATE/TIME					DEPTH(ft)		REMARKS		SPT HAMMER		140 lb Auto	
4.0 Wash Boring w/ 4" Casing				08-29-2019 / 9:54 am					2.5		Upon Completion (in Casing)		COORD E		678940	
20.4 Terminated													DATE START		8/29/19	
													DATE END		8/29/19	
SOIL AND ROCK DESCRIPTION																NOTES
FILL																
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S2: Moist, dense, brown, fine to medium SAND, some Silt.																
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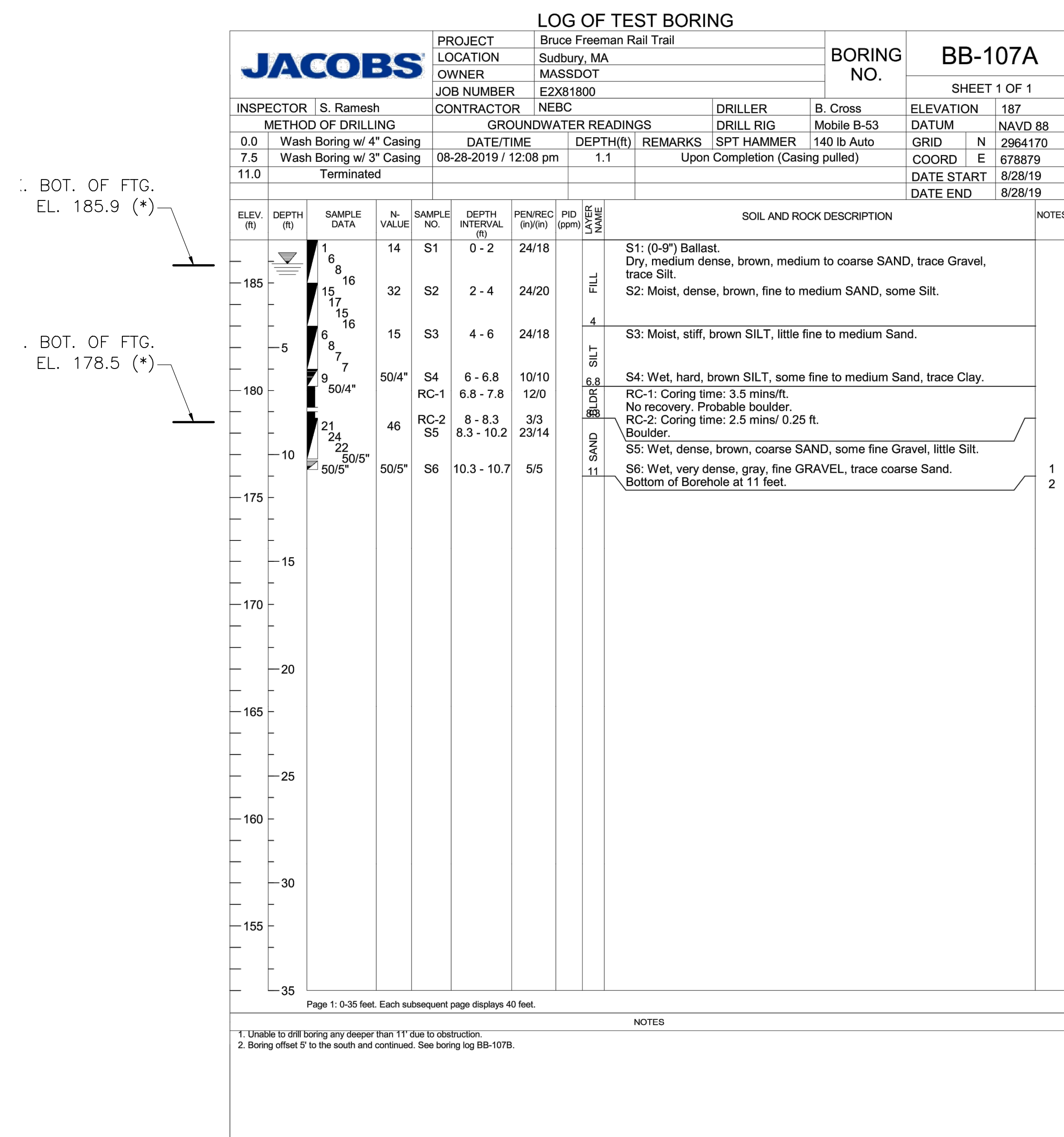
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NOTES

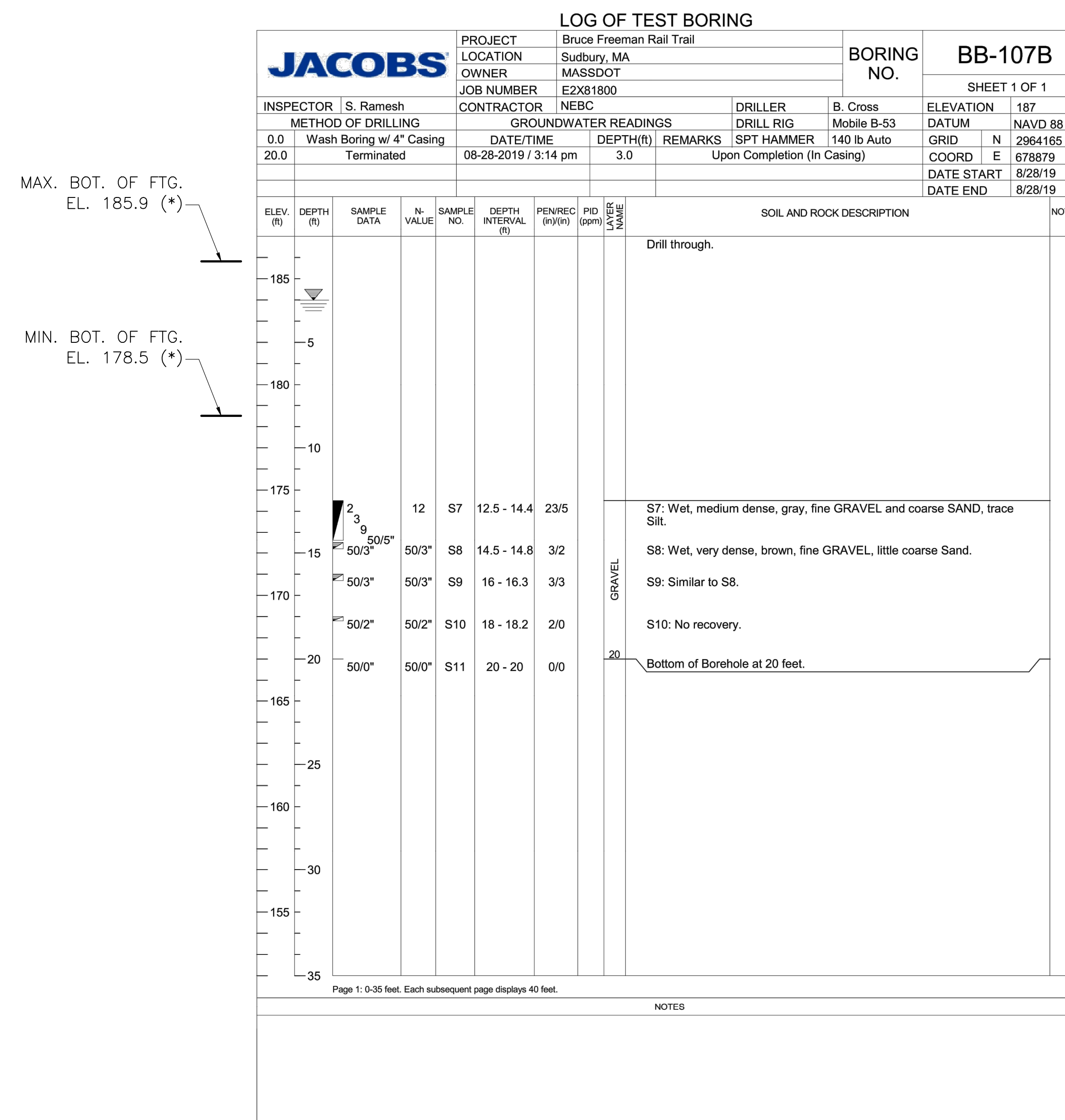
1. LOCATION OF BORINGS SHOWN ON THE PLANS THUS: BB-#
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1½" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. ALL BORINGS WERE MADE IN AUGUST 2019.
6. BORINGS WERE MADE BY NEW ENGLAND BORING CONTRACTOR, INC., P.O. BOX 165, DERRY, NH 03038.
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
8. BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.

BORING NOTES:

SEE SHEET 2 FOR BORING NOTES.

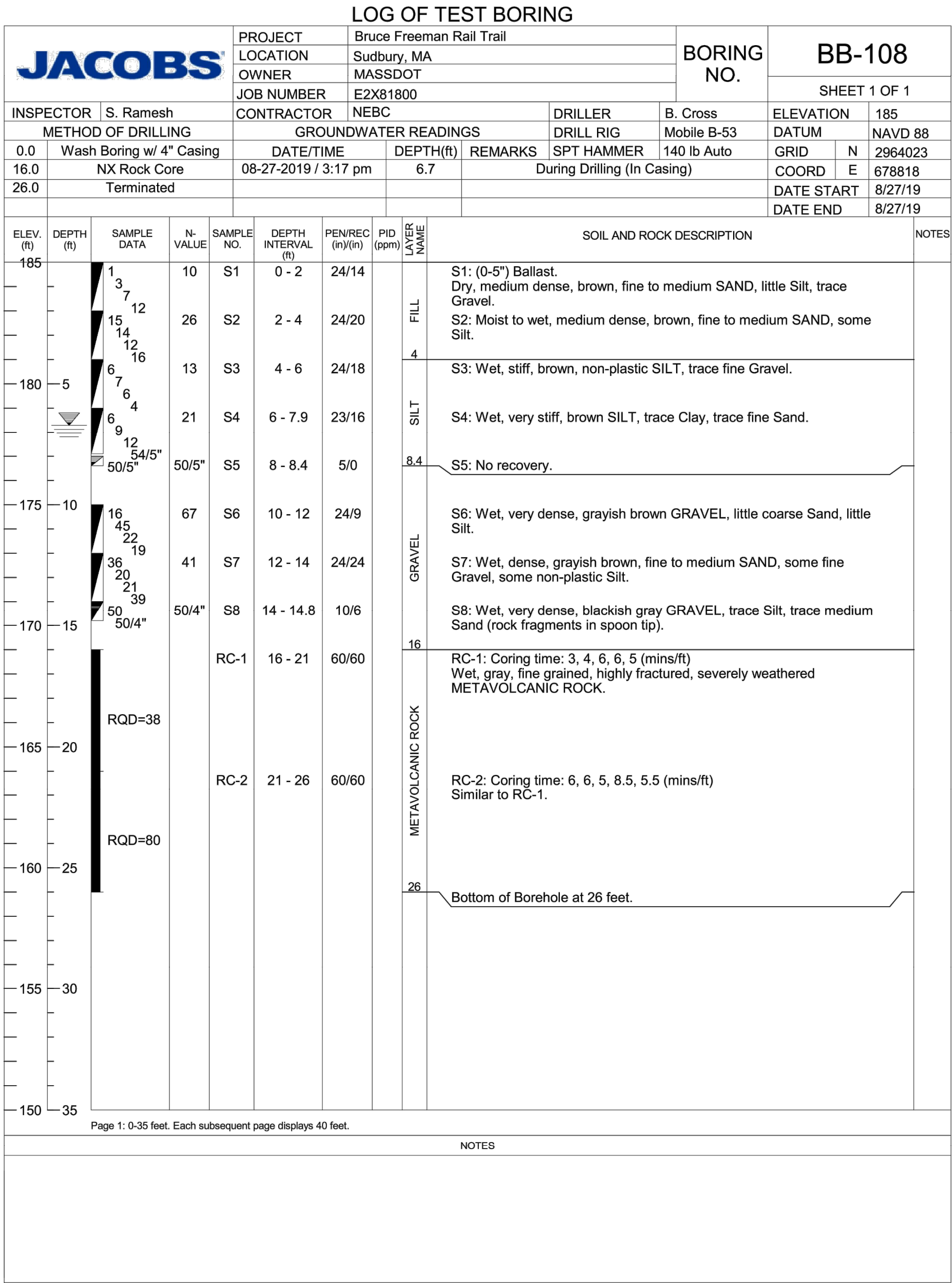


(*)BOTTOM OF FOOTING ELEVATION VARIES, AND IS 4'-0" MINIMUM TO GROUND. MAX. AND MIN. BOTTOM OF FOOTING ELEVATIONS ARE PROVIDED.



MAX. BOT. OF FTG.
EL. 185.9 (*)

MIN. BOT. OF FTG.
EL. 178.5 (*)

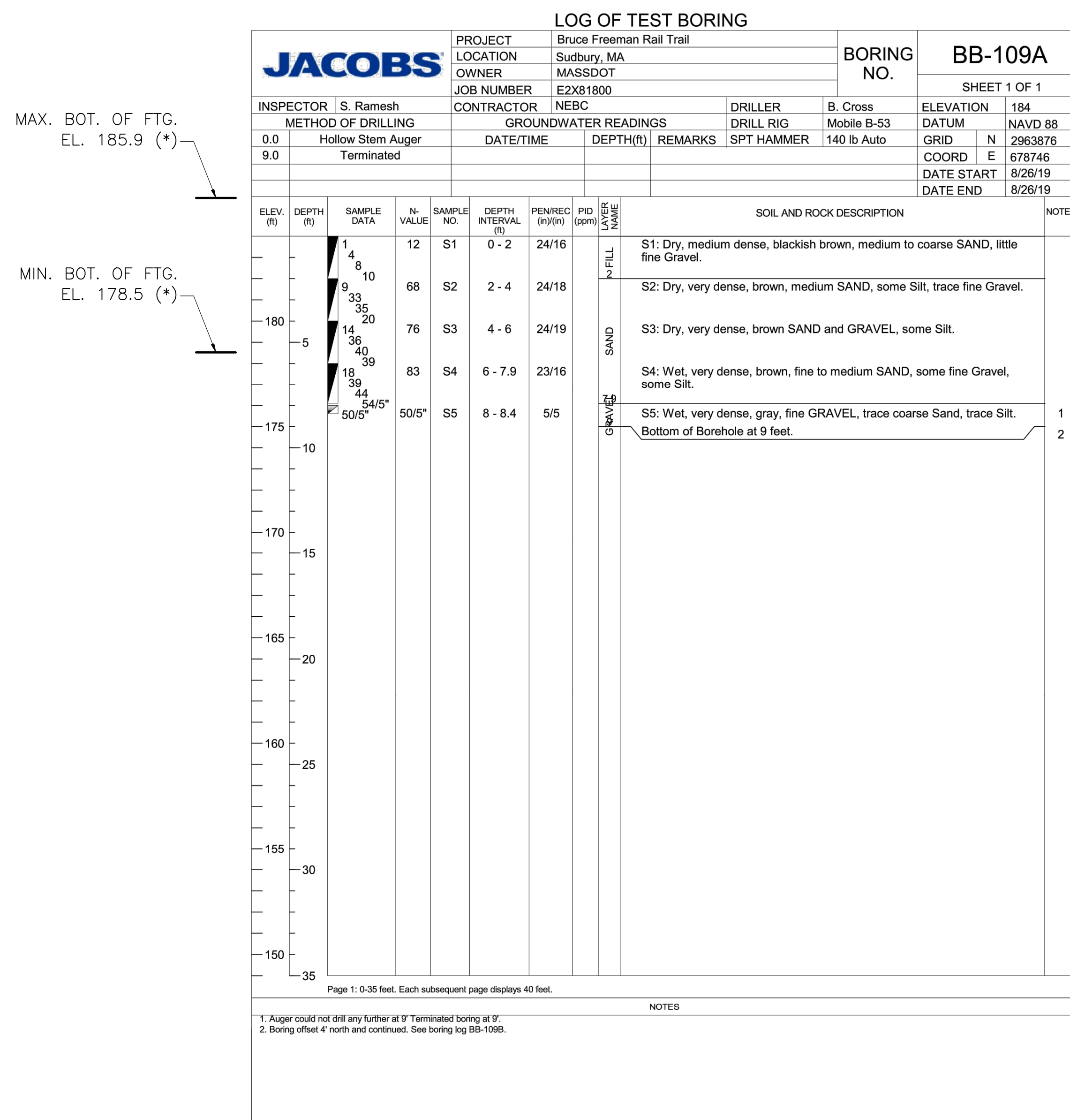


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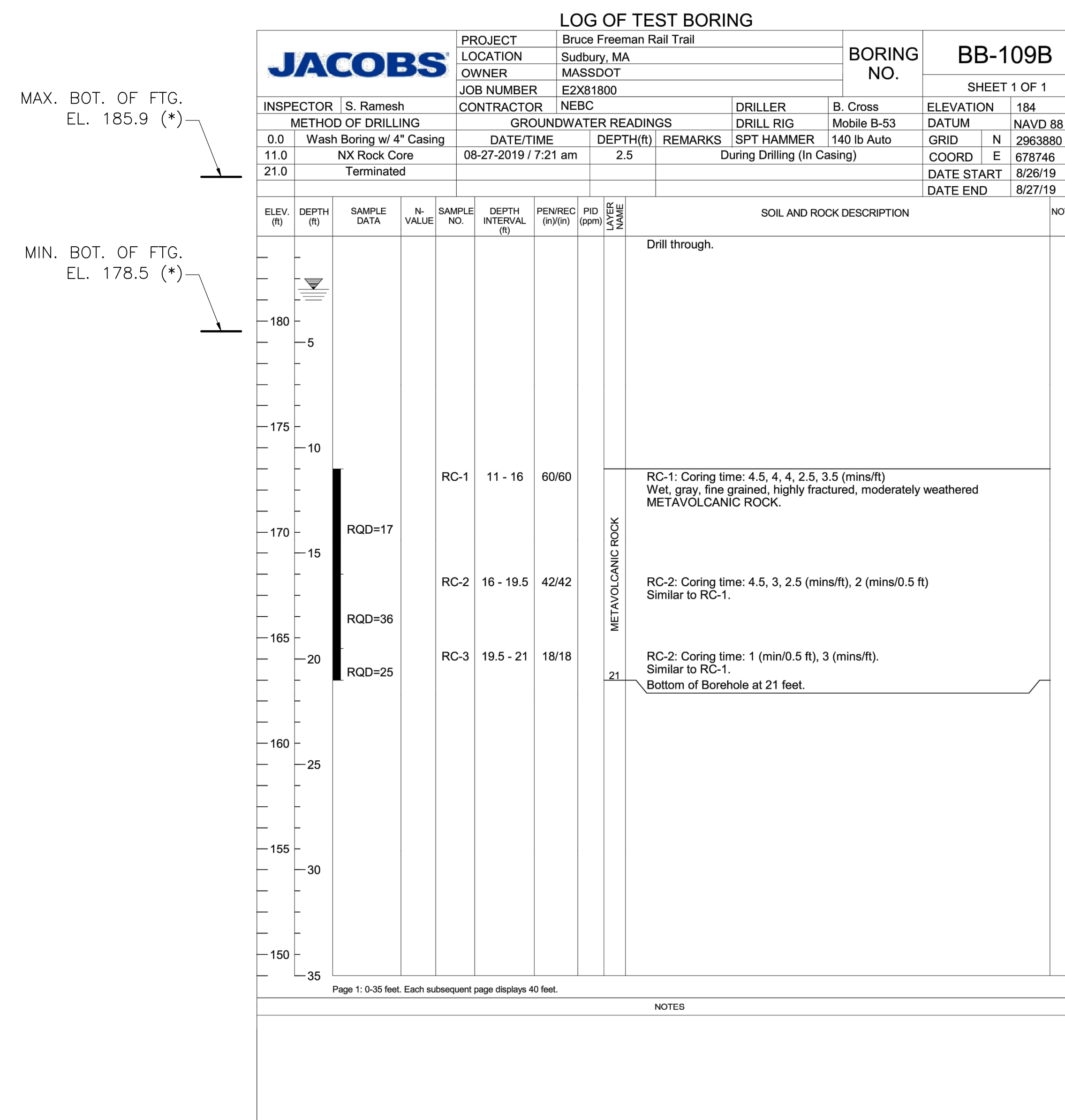
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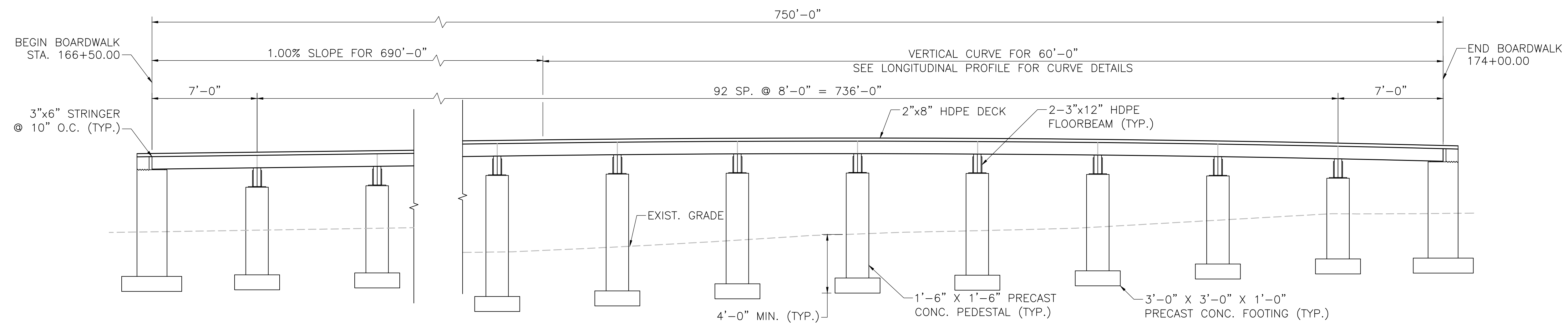
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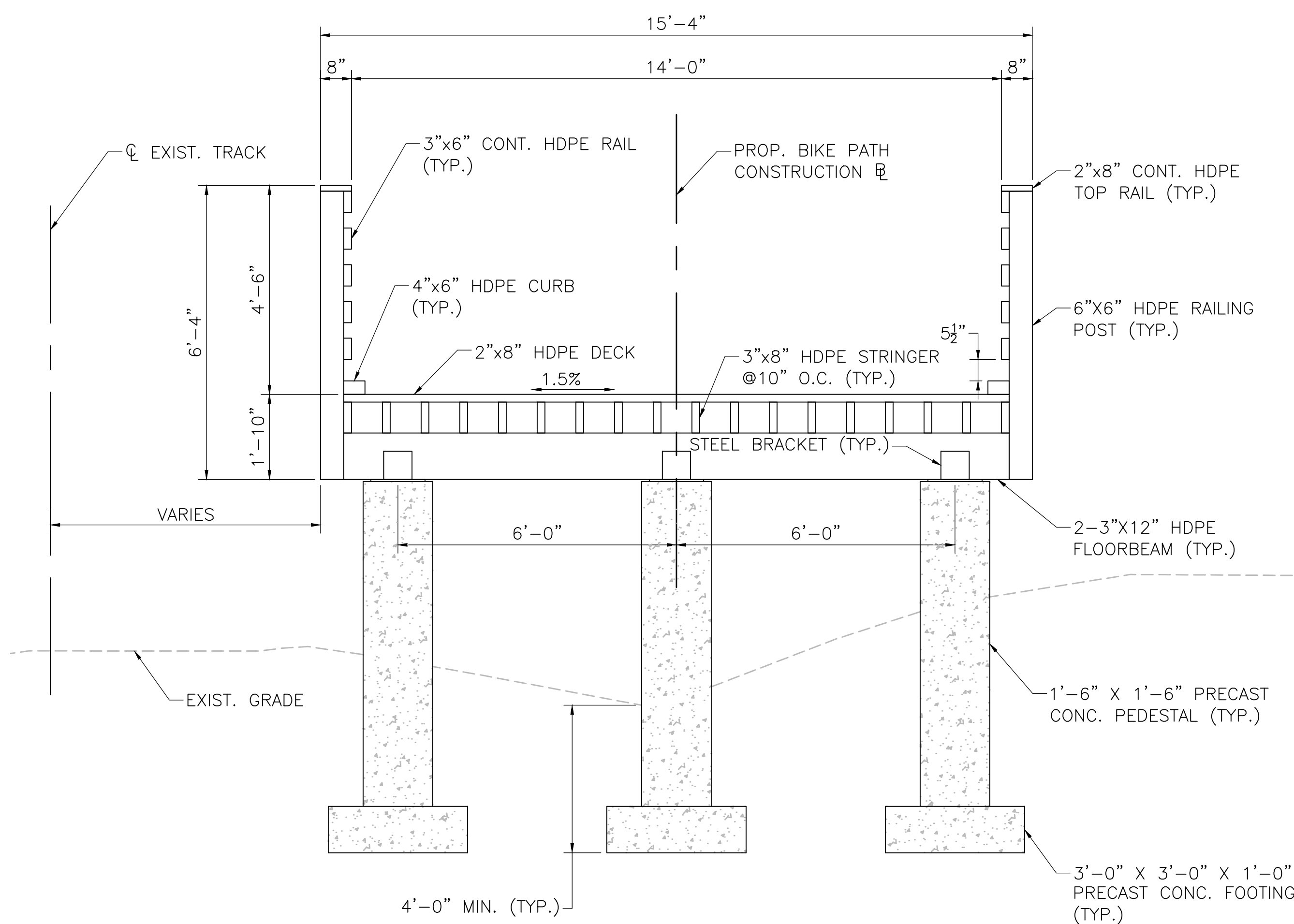




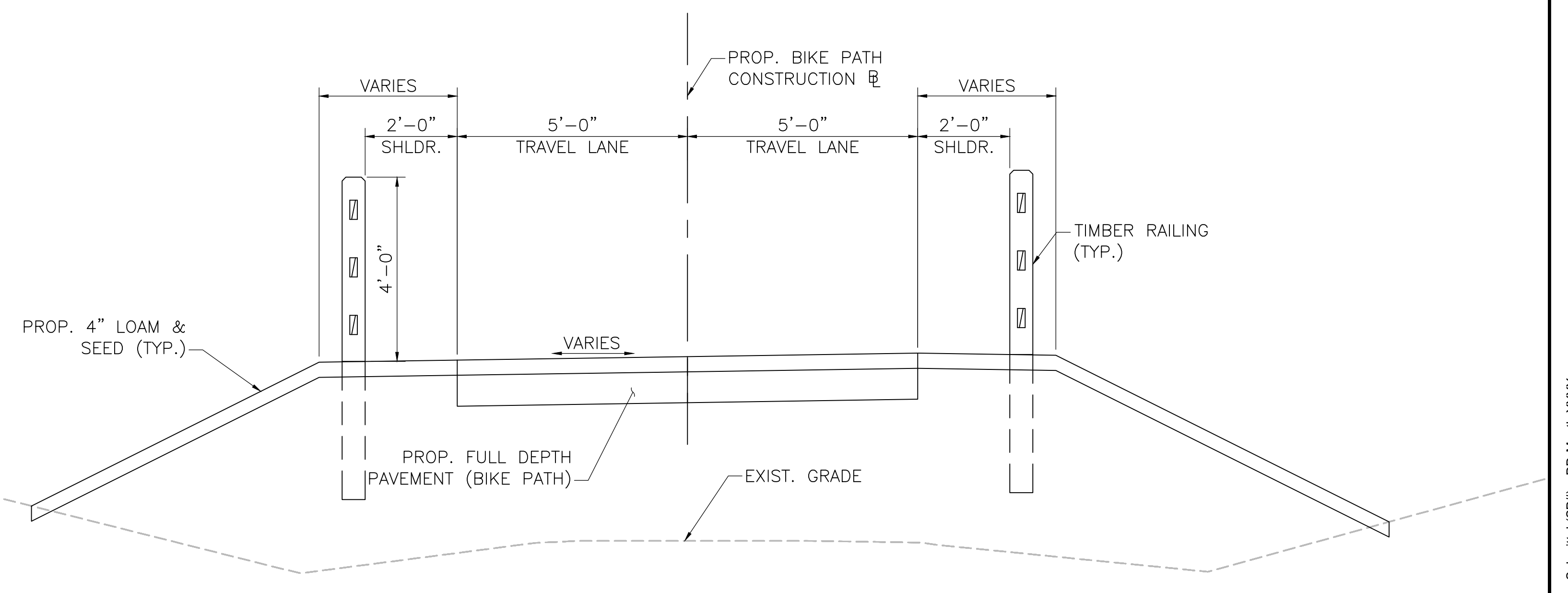
TYPICAL LONGITUDINAL SECTION
SCALE: 1/4"=1'-0"

NOTES:

1. THE FACTORED BEARING PRESSURE = 2.9 KSF PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION.
2. FACTORED BEARING RESISTANCE = 3.5 KSF. FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE AND A RESISTANCE FACTOR OF 0.45.



TYPICAL BOARDWALK SECTION
SCALE: 1/2"=1'-0"



TYPICAL APPROACH SECTION
SCALE: 1/2"=1'-0"

001_608164_BFRT 25% Re-Sketch Plans_Boardwalk

Final Audit Report

2020-06-26

Created:	2020-06-26
By:	Alexander Bardow (Alexander.Bardow@dot.state.ma.us)
Status:	Signed
Transaction ID:	CBJCHBCAABAANxY89hGIGHOxgVVUDXRe-ePMoD27CJwL

"001_608164_BFRT 25% Re-Sketch Plans_Boardwalk" History

-  Document created by Alexander Bardow (Alexander.Bardow@dot.state.ma.us)
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