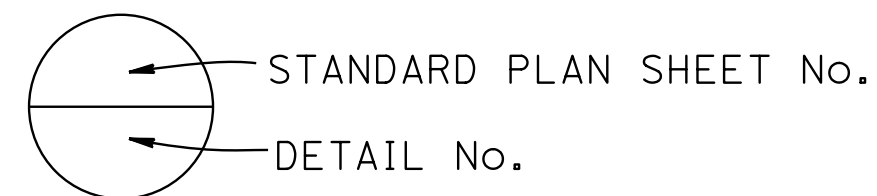


A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND-SOIL (SHEET 1 OF 2)
A10G	LEGEND-SOIL (SHEET 2 OF 2)
A10H	LEGEND-ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")
B9-1	STRUCTURE APPROACH TYPE N (30)
B9-5	STRUCTURE APPROACH SLAB DETAILS
B11-75	CALIFORNIA ST-70 BRIDGE RAIL (SHEET 1 OF 4)
B11-76	CALIFORNIA ST-70 BRIDGE RAIL (SHEET 2 OF 4)
B11-77	CALIFORNIA ST-70 BRIDGE RAIL (SHEET 3 OF 4)
B11-78	CALIFORNIA ST-70 BRIDGE RAIL (SHEET 4 OF 4)

SHEET No. TITLE

1. GENERAL PLAN
2. INDEX TO PLANS
3. STAGE CONSTRUCTION PLAN
4. DECK CONTOURS
5. FOUNDATION PLAN
6. ABUTMENT LAYOUT
7. ABUTMENT DETAILS No. 1
8. ABUTMENT DETAILS No. 2
9. ABUTMENT DETAILS No. 3
10. BARRIER DETAILS
11. TYPICAL SECTION
12. GIRDER LAYOUT
13. PRESTRESSED BOX GIRDER DETAILS No. 1
14. PRESTRESSED BOX GIRDER DETAILS No. 2
- 14A. PRECAST CONCRETE BAT HOUSE DETAILS
15. LOG OF TEST BORINGS No. 1
16. LOG OF TEST BORINGS No. 2
17. LOG OF TEST BORINGS No. 3

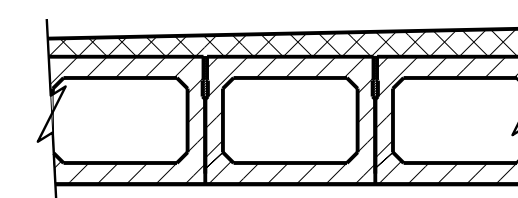


Location	Pile Type	Cut off Elevation(ft)	Nominal Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)	Required Nominal Driving Resistance (kips)	Top of Soil Plug Elevation (ft)
			Compression	Tension				
Abut 1	36" CISS	3.17	400	0	-74.0 (a) -62.0 (b)	-74.0	460	-55.0
Abut 2	36" CISS	3.51	400	0	-71.0 (a) -50.0 (a)	-71.0	410	-55.0

A cross-sectional diagram of a roof assembly. It shows a concrete slab with a sloped drainage profile. A waterproofing layer is applied to the underside of the slab. A drainage channel is formed within the slab, with a sloped bottom leading to a collection point. The channel is lined with a material, possibly a membrane or a channel liner, and has a sloped bottom leading to a collection point. The channel is supported by a concrete base. The diagram illustrates the construction details for a roof drainage system.

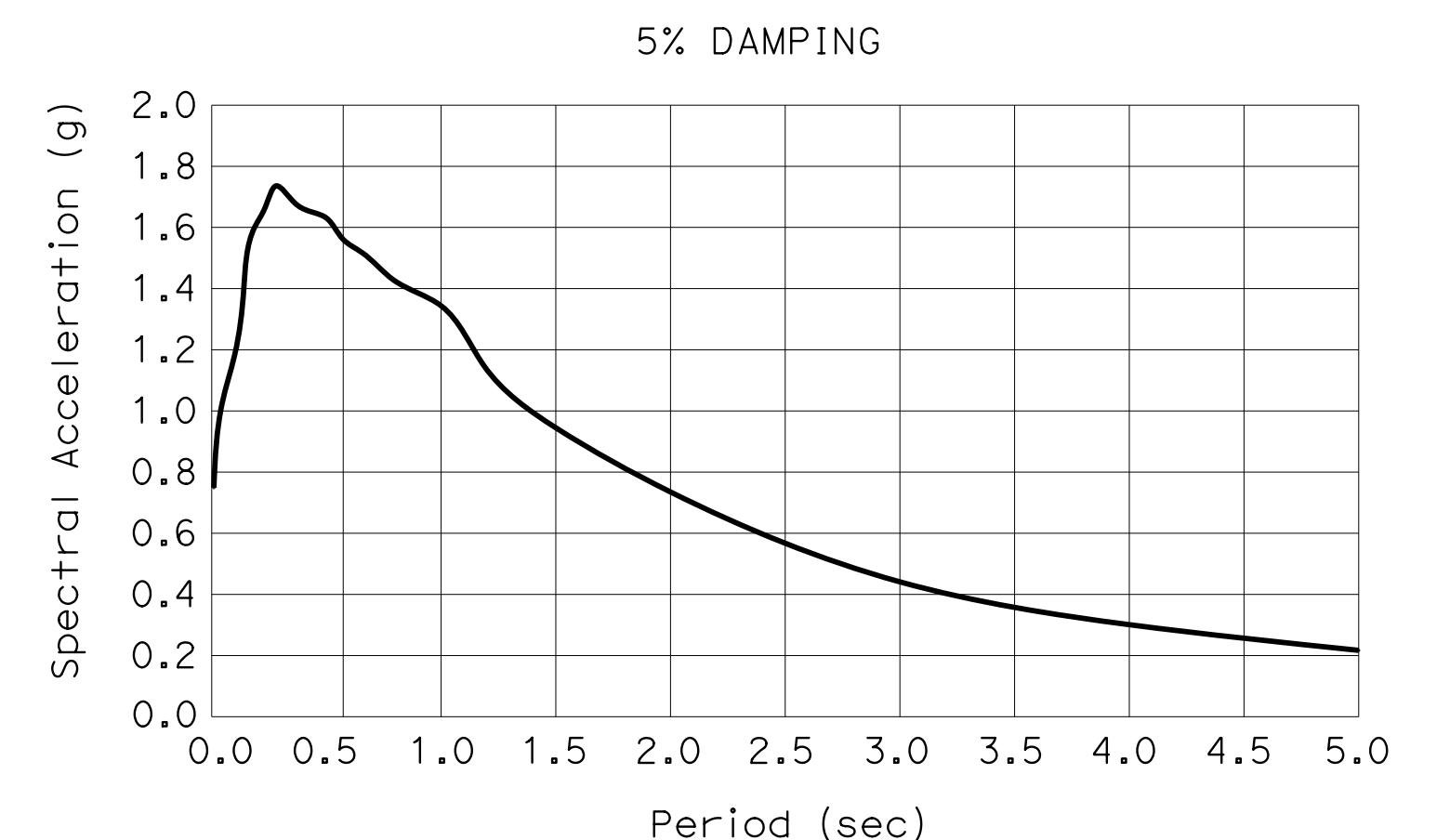
LEGEND:

	Structural Concrete, Bridge (4000 psi)
	PC/PS Concrete Box Girder, see "PRESTRESSED BOX GIRDER DETAILS No.1" sheet
	Structural Concrete, Bridge (Polymer Fiber)



REINFORCED CONCRETE:
 $f_y = 60 \text{ ksi}$
 $f_c = 4.0 \text{ ksi}$

PRESTRESSING STEEL:
 See "PRESTRESSING NOTE" on "GIRDER LAYOUT"
 and "PRESTRESSED BOX GIRDER DETAILS No. 1" sheet



No Scale

1 REPLACED PER ADDENDUM No. 1, DATED DECEMBER 09, 2019

	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)										
	DETAILS	BY Y. Tang/R. Kirkland	CHECKED H. Vu			04-0313L											
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE	INDEX TO PLANS										
						84.5											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)				DATE PLOTTED => 09-DEC-2019 FILE => 040313gaitp02_detail.dgn	TIME PLOTTED => 10:17 USERNAME => sl16738	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3589 PROJECT NUMBER & PHASE: 0113000091	CONTRACT No.: 01-0E0001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF	
													3/24/18	12/04/19	2/24/19	2R	17

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

01

Hum

101

84.4/84.8

57

71

Larry Wu

5-30-19

REGISTERED CIVIL ENGINEER

DATE

08-14-2019

PLANS APPROVAL DATE

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LARRY WU

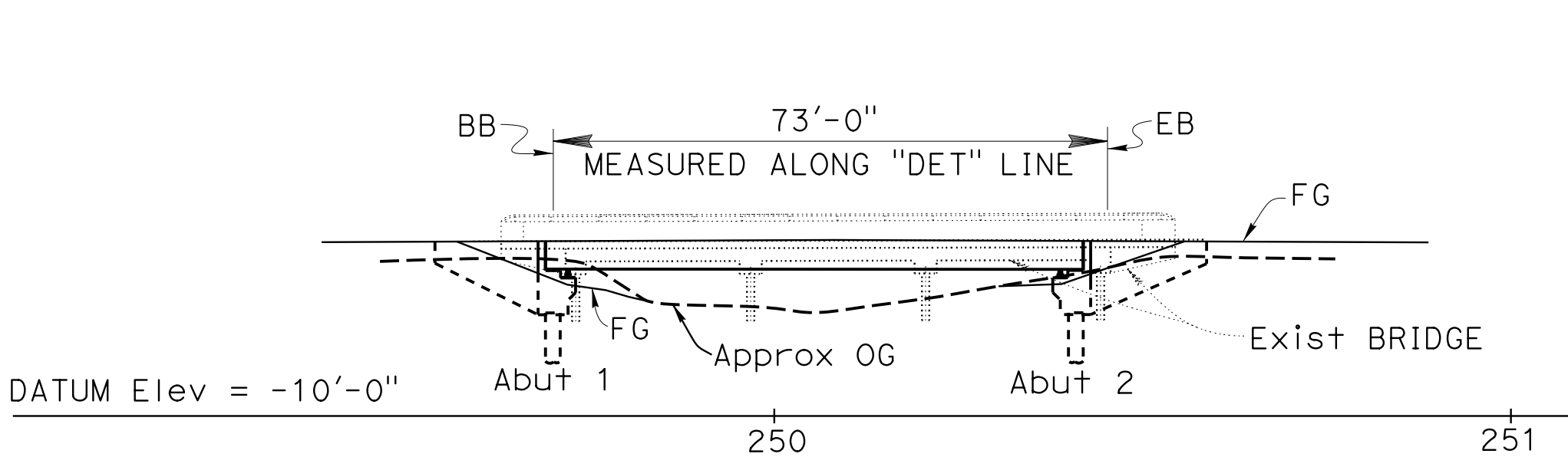
No. 57035

Exp. 6-30-21

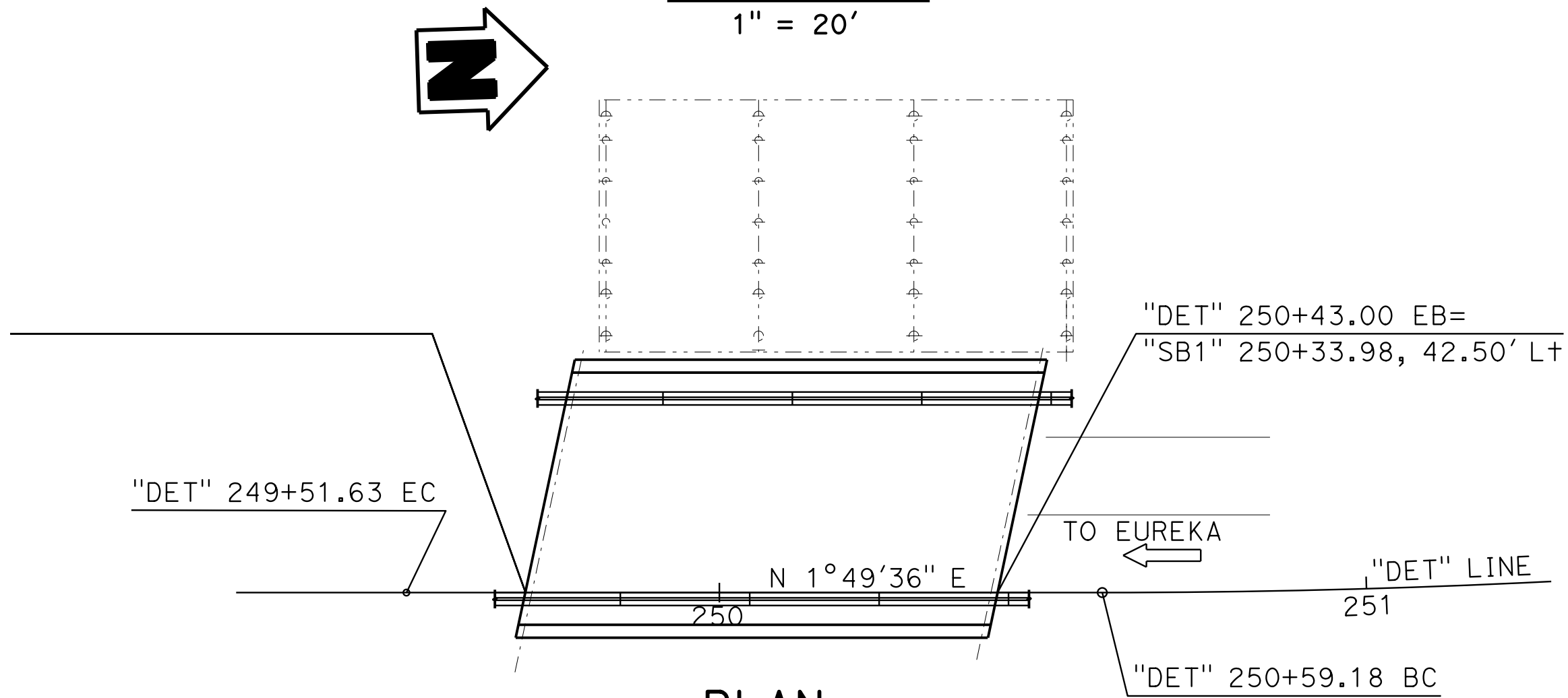
CIVIL

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ACCELERATED BRIDGE CONSTRUCTION



ELEVATION
1" = 20'



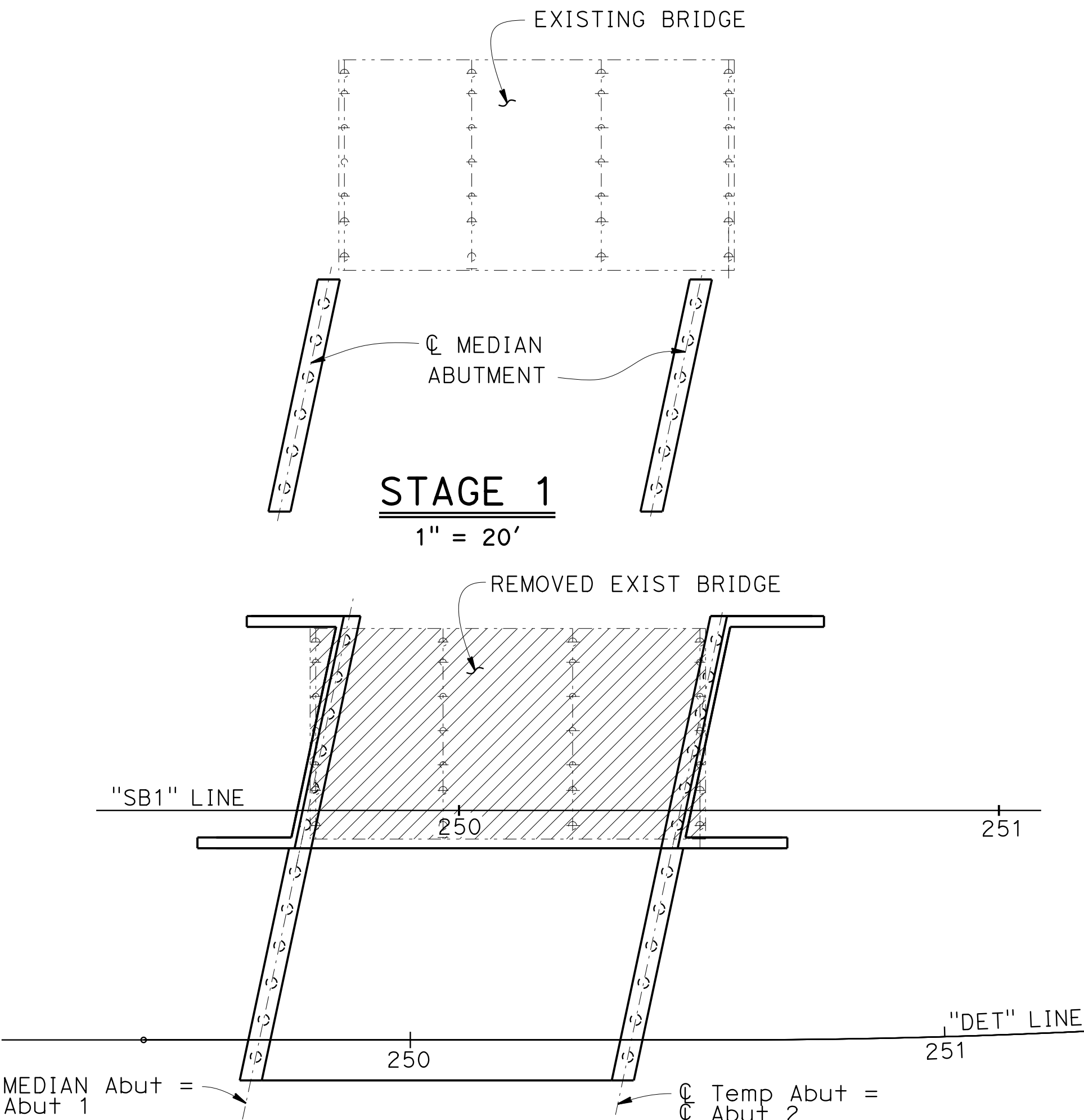
PLAN
(STAGES 1 & 2)
1" = 20'

JACKING LOADS			
LOCATION	INITIAL Vert JACKING LOAD	MINIMUM Vert JACKING LOAD	LATERAL JACKING LOAD
ABUTMENT 1	600 kips	900 kips (Total)	90 kips
ABUTMENT 2	600 kips	900 kips (Total)	90 kips

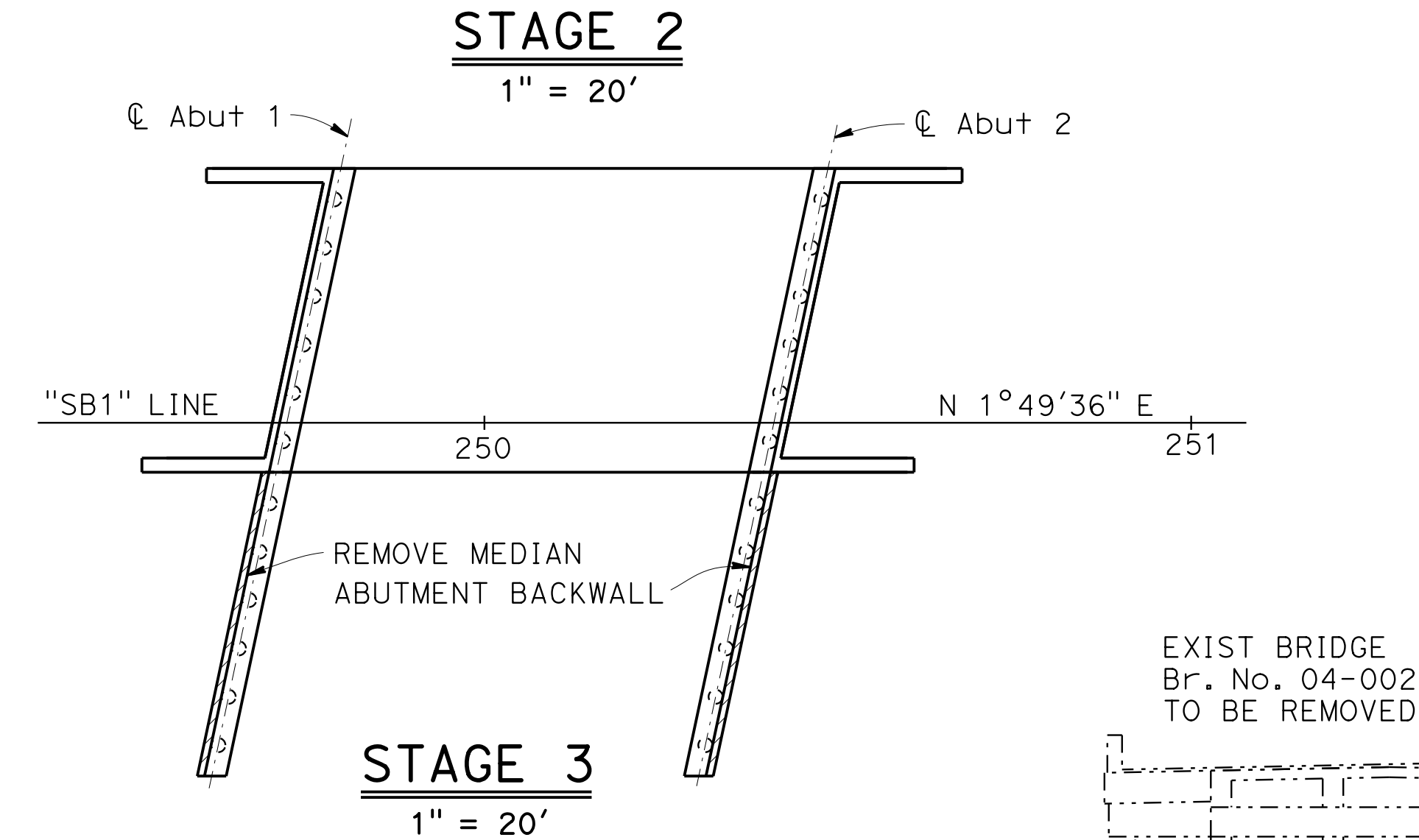
JACKING NOTES:

- The initial jacking load includes the total superstructure dead load only. The minimum jacking load is equal to 1.5 x the total dead loads and it does not include the weight of the temporary support jack or loads due to friction between concrete surfaces. The lateral jacking load is equal to 0.15 x the total dead loads.
- The vertical jacking locations shall be located within 4'-0" of EB or BB, along the center line of each girder.
- The allowable concrete bearing pressure for temporary supports under the soffit shall not exceed 1.3 ksi.
- Support members shall evenly distribute jacking forces to all superstructure jacking locations.
- Do not slide the superstructure onto the substructure until the compressive strength test results demonstrate the substructure concrete has reached at least 4000 psi.

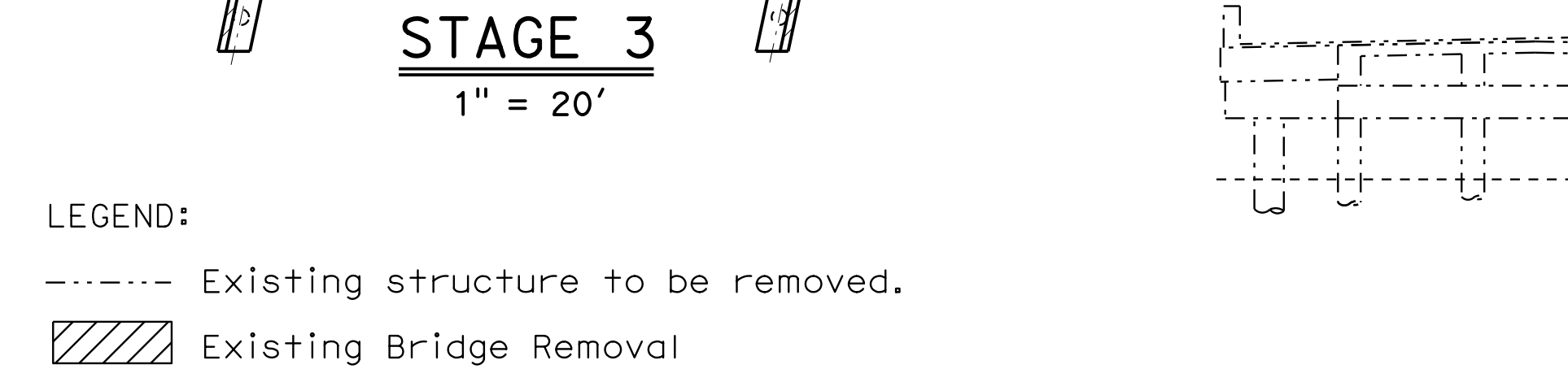
NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.



STAGE 1
1" = 20'



STAGE 2
1" = 20'



STAGE 3
1" = 20'

LEGEND:

- Existing structure to be removed.
- Existing Bridge Removal

CONSTRUCTION SEQUENCE

STAGE 1

- Construct Median abutments.

STAGE 2

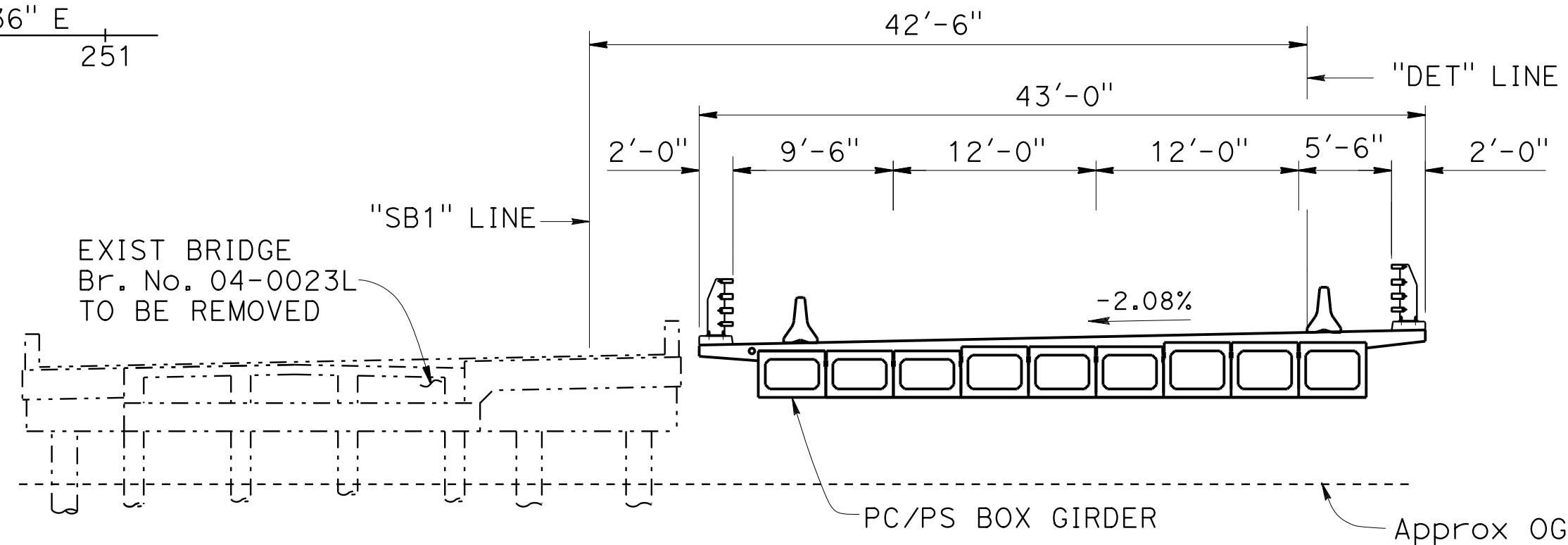
- Construct superstructure on Median abutments.
- Stress and grout P/S tendons.
- Construct Median abutments backwalls and shear keys in its temporary location.
- Build detour roadway approaches.
- Detour traffic to temporary alignment.
- Remove existing bridge.
- Construct permanent abutments with abutment backwalls and west shear keys.
- Build permanent roadway approaches with abutment approach slabs.

STAGE 3A - Trial slide

- Remove timber blocking and/or shear keys at Median abutment west side.
- Close traffic on Route 101 SB.
- Conduct bridge superstructure test move.
- Open traffic on Route 101 SB.
- Put timber blocking and/or shear keys back at Median abutment west side.

STAGE 3B

- Remove Median abutment west shear keys.
- Close traffic on Route 101 SB.
- Move bridge superstructure to permanent abutments.
- Open Route 101 SB traffic on new bridge.
- Construct east shear keys within one week of bridge move.



TYPICAL SECTION
(STAGES 1 & 2)

1/8" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)
	DETAILS	BY Y. Tang	CHECKED H. Vu			04-0313L	
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE	
						84.5	
STAGE CONSTRUCTION PLAN							
DATE PLOTTED ==> 21-OCT-2019 TIME PLOTTED ==> 09:54 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3589			
FILE ==> 040313lscsp03_detail.dgn USERNAME ==> sl16f38				PROJECT NUMBER & PHASE: 01130000911 CONTRACT No.: 01-0E0004			
				DISREGARD PRINTS BEARING EARLIER REVISION DATES			
				REVISION DATES			
				SHEET OF			
				6/28/18 1/17/19 3 17			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	58	71

Larry Wu5-30-19
REGISTERED CIVIL ENGINEERDATE

08-14-2019
PLANS APPROVAL DATE

LARRY WU
No. 57035
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

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ACCELERATED BRIDGE CONSTRUCTION

The figure is a plan view of the bridge deck showing elevation contours. The contours are labeled with elevations from 12.7 to 14.1 in 0.1-foot intervals. The bridge is oriented horizontally, with a north arrow pointing towards the top right. Two abutments are indicated by dashed lines labeled 'ABUT 1' and 'ABUT 2'. The deck is bounded by 'WWLOL' (Wet Weather Low Water Line) and 'EOD' (End of Deck) lines. Stationing is shown along the top and bottom edges, with 'SB1' LINE at station 249 and station 251. The width of the deck is indicated as 36'-0" and 7'-0".

DECK CONTOURS
1" = 10'

NOTES:

1. X - 10' Intervals along station line.
2. Contour interval = 0.1'.
3. Contours do not include camber.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)										
	DETAILS	BY Y. Tang	CHECKED H. Vu			04-0313L											
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE 84.5											
DATE PLOTTED => 21-OCT-2019		TIME PLOTTED => 09:54		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3589		PROJECT NUMBER & PHASE: 01130000911		CONTRACT No.: 01-0E0004		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET	OF
FILE => 0403131ddc04_detail.dgn		USERNAME => s116738		0 1 2 3								6/21/18 9-25-18 10/16/18 1/29/19		4		17	

CURVE DATA

No. +	R	Δ	T	L
①	2000.00	09°04'07"	158.61	316.56
②	1400.00	09°04'07"	111.03	221.59
③	1400.00	09°04'07"	111.03	221.59
④	2000.00	09°04'07"	158.61	316.56

SURVEY CONTROL

PRHV8437 (NOT SHOWN ON PLAN)
Fnd Alum Cap AND REBAR in Conc
80.62 F+ L+ "SB1" LINE, ROUTE 101
Sta 242+92.84
N 2,196,701.04
E 5,985,605.90
Elev = 10.90

PRHV8452

Fnd Alum Cap AND REBAR
116.14 F+ R+ "SB1" LINE, ROUTE 101
Sta 250+29.73
N 2,197,431.29
E 5,985,826.05
Elev = 9.93

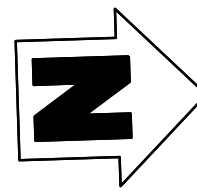
BRIDGE LOCATION (Br. No. 04-0023L)

- ① - 32.29 F+ L+ "SB1" LINE, Sta 249+73.92, Elev = 11.23±
② - 32.55 F+ L+ "SB1" LINE, Sta 250+47.08, Elev = 11.22±
③ - 4.40 F+ R+ "SB1" LINE, Sta 250+47.11, Elev = 11.90±
④ - 4.46 F+ R+ "SB1" LINE, Sta 249+73.94, Elev = 11.75±

DECK ELEVATIONS

LEFT BRIDGE

- ① 10.96 ④ 11.69
② 10.97 ⑤ 11.73
③ 10.94 ⑥ 11.74



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	59	71

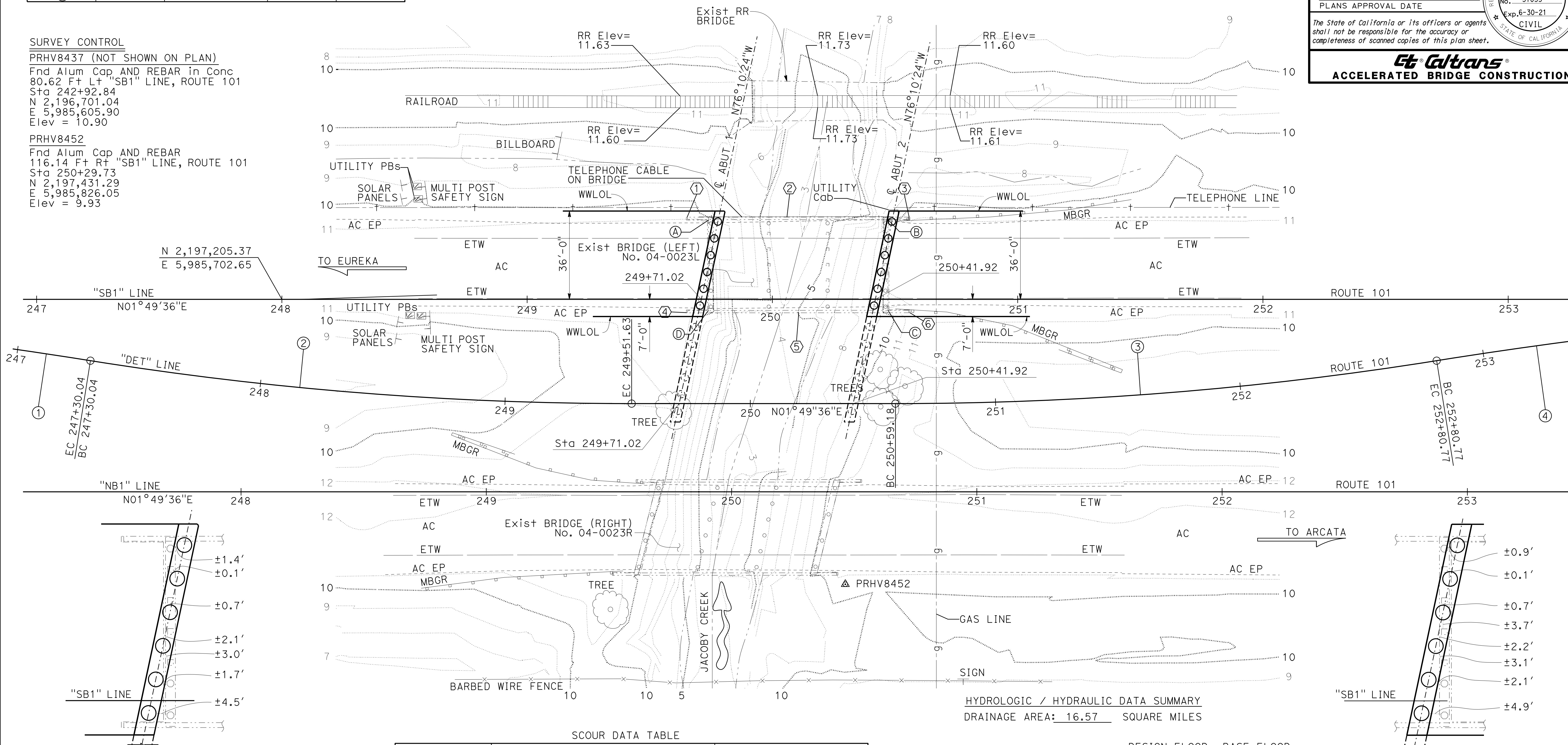
REGISTERED CIVIL ENGINEER DATE 5-30-19

08-14-2019
PLANS APPROVAL DATE

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Caltrans
ACCELERATED BRIDGE CONSTRUCTION

LARRY WU
No. 57035
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

CLEARANCE BETWEEN EXISTING PILES
AND NEW PILES-ABUTMENT 1

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

The location of new piles may be adjusted as approved by the Engineer.

SCOUR DATA TABLE

SUPPORT No.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (F+)	SHORT TERM (LOCAL) SCOUR DEPTH (F+)
ABUTMENT 1	7.25	0.0
ABUTMENT 2	7.25	0.0

HYDROLOGIC / HYDRAULIC DATA SUMMARY
DRAINAGE AREA: 16.57 SQUARE MILES

DESIGN FLOOD BASE FLOOD

FREQUENCY (YEARS)	50	100
DISCHARGE (CUBIC FEET PER SECOND)	4550	5258
WATER SURFACE ELEVATION (FEET)	6.74	7.09

FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND
ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED
BY THE STATE AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATIONS.

CLEARANCE BETWEEN EXISTING PILES
AND NEW PILES - ABUTMENT 2

PRELIMINARY INVESTIGATION SECTION				DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO. 04-0313L POST MILE 84.5	JACOBY CREEK BRIDGE LEFT (REPLACE) FOUNDATION PLAN	
SCALE	VERT. DATUM NAVD88	PHOTOGRAMMETRY AS OF: X	DRAFTED	BY Y. Tang	CHECKED H. Vu						
ALIGNMENT TIES Dist	HORIZ. DATUM NAD83 (1991.35)	SURVEYED	BY DISTRICT	CHECKED	BY J. BORDEN 9/2017						
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)				DRAFTED	BY L. YOUNG 9/2017	CHECKED	BY S. SOU 9/2017	QUANTITIES	BY L. Wu	CHECKED R. Anderson	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								UNIT: 3646 PROJECT NUMBER & PHASE: 01130000911		CONTRACT NO.: 01-0E0004	
								SUBMITTAL DATE		REVISION DATES	
								9/6/2017		3/24/18 9/25/18 10/12/18 2/27/19	
								SHEET		OF	
								5		17	

FILE => 040313lefpl05.dgn

Dist01COUNTYHumROUTE101POST MILESTOTAL PROJECT84.4/84.8SHEET No.60TOTAL SHEETS71

Larry Wu

5-30-19

REGISTERED CIVIL ENGINEERDATE

8-14-2019

PLANS APPROVAL DATE

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LARRY WU

No. 57035

Exp. 6-30-21

CIVIL

STATE OF CALIFORNIA

ACCELERATED BRIDGE CONSTRUCTION

NOTE: BARRIER RAIL NOT SHOWN, Typ

ABUTMENT PLAN
1/4" = 1'-0"

ABUTMENT ELEVATION
1/4" = 1'-0"

NOTES:

1. For Section A-A, see "ABUTMENT DETAILS No. 1" sheet.
2. For Section X-X and Section Y-Y, see "ABUTMENT DETAILS No. 2" sheet.
3. For Section M-M and Section N-N, see "ABUTMENT DETAILS No. 3" sheet.
4. For CISS Pile Details, see "ABUTMENT DETAILS No. 1" sheet.
5. Abutment 1 shown, Abutment 2 similar.

LEGEND:

- Median Abutment
- Permanent Abutment (All reinforcement Epoxy Coated prefabricated)
- Bridge Removal, remove Median abutment backwall after moving bridge superstructure to permanent location.

MEDIAN ABUTMENT BACKWALL REMOVAL
1/2" = 1'-0"

3 REPLACED PER ADDENDUM No. 3, DATED DECEMBER 30, 2019

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No. 04-0313L	JACOBY CREEK BRIDGE (LEFT) (REPLACE) ABUTMENT LAYOUT			
	DETAILS	BY Y. Tang	CHECKED H. Vu			POST MILE 84.5				
	QUANTITIES	BY L. Wu	CHECKED R. Anderson							
DATE PLOTTED => 23-DEC-2019 TIME PLOTTED => 14:55 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3589 PROJECT NUMBER & PHASE: 0113000091 CONTRACT No.: 01-0E0001		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 8/24/18 12-23-19 2/7/20	SHEET 6	OF 17

Dist01COUNTYHumROUTE101POST MILESTOTAL PROJECT84.4/84.8SHEET No.61TOTAL SHEETS71

Larry Wu

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No. 57035

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STATE OF CALIFORNIA

ACCELERATED BRIDGE CONSTRUCTION

3 REPLACED PER ADDENDUM No. 3, DATED DECEMBER 30, 2019

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No. 04-0313L	JACOBY CREEK BRIDGE (LEFT) (REPLACE) ABUTMENT DETAILS No. 1							
	DETAILS	BY Y. Tang/R. Kirkland	CHECKED H. Vu			POST MILE 84.5								
	QUANTITIES	BY L. Wu	CHECKED R. Anderson											
DATE PLOTTED => 23-DEC-2019 TIME PLOTTED => 14:55 FILE => 040313ifad01-07_detail.add USERNAME => s116738				UNIT: 3589 PROJECT NUMBER & PHASE: 0113000091		CONTRACT No.: 01-0E0001		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET	OF		
										6/24/18	2/24/19	12-23-19	7	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	62	71

Larry Wu

5-30-19

REGISTERED CIVIL ENGINEER

DATE

08-14-2019

PLANS APPROVAL DATE

STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER

LARRY WU

No. 57035

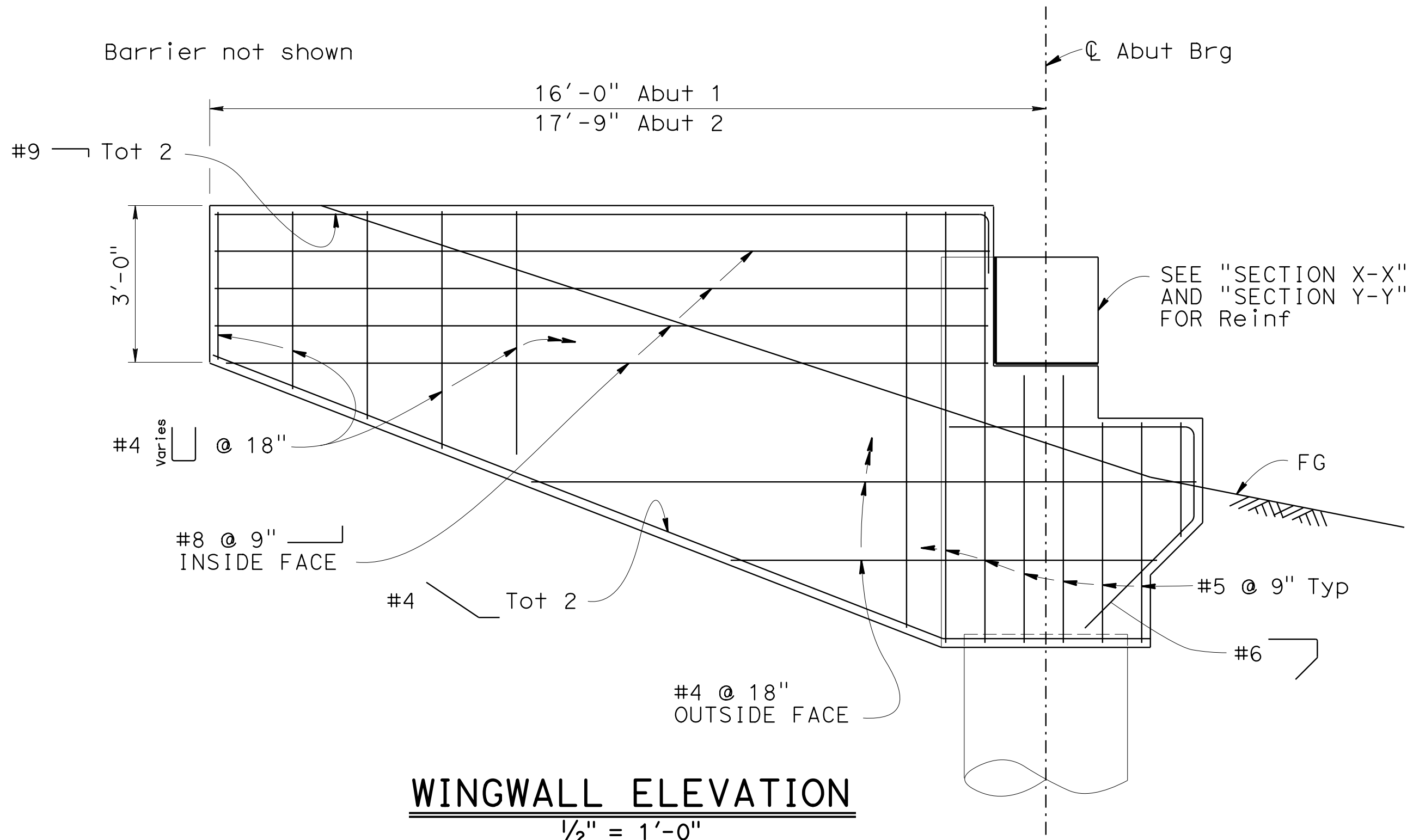
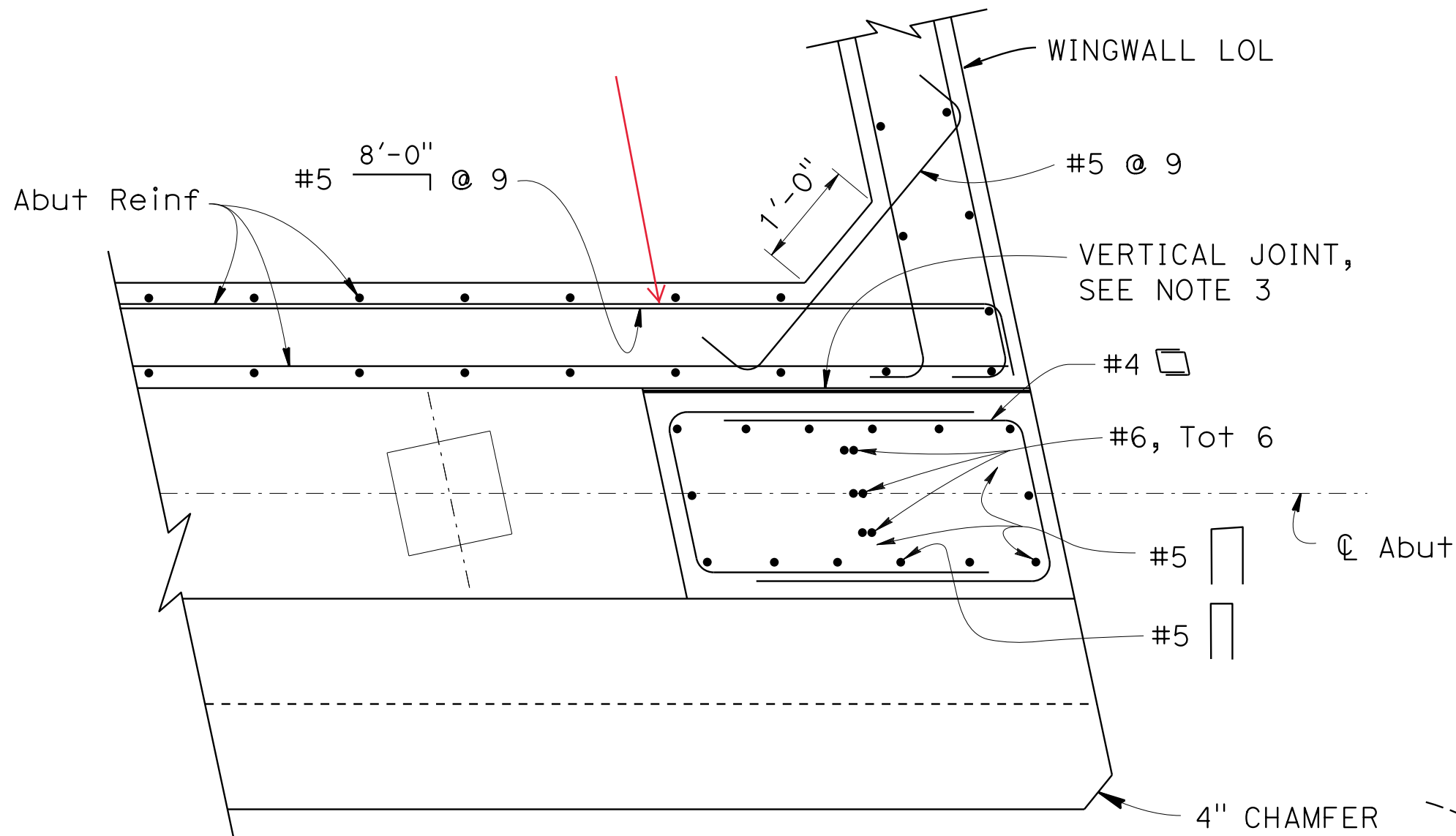
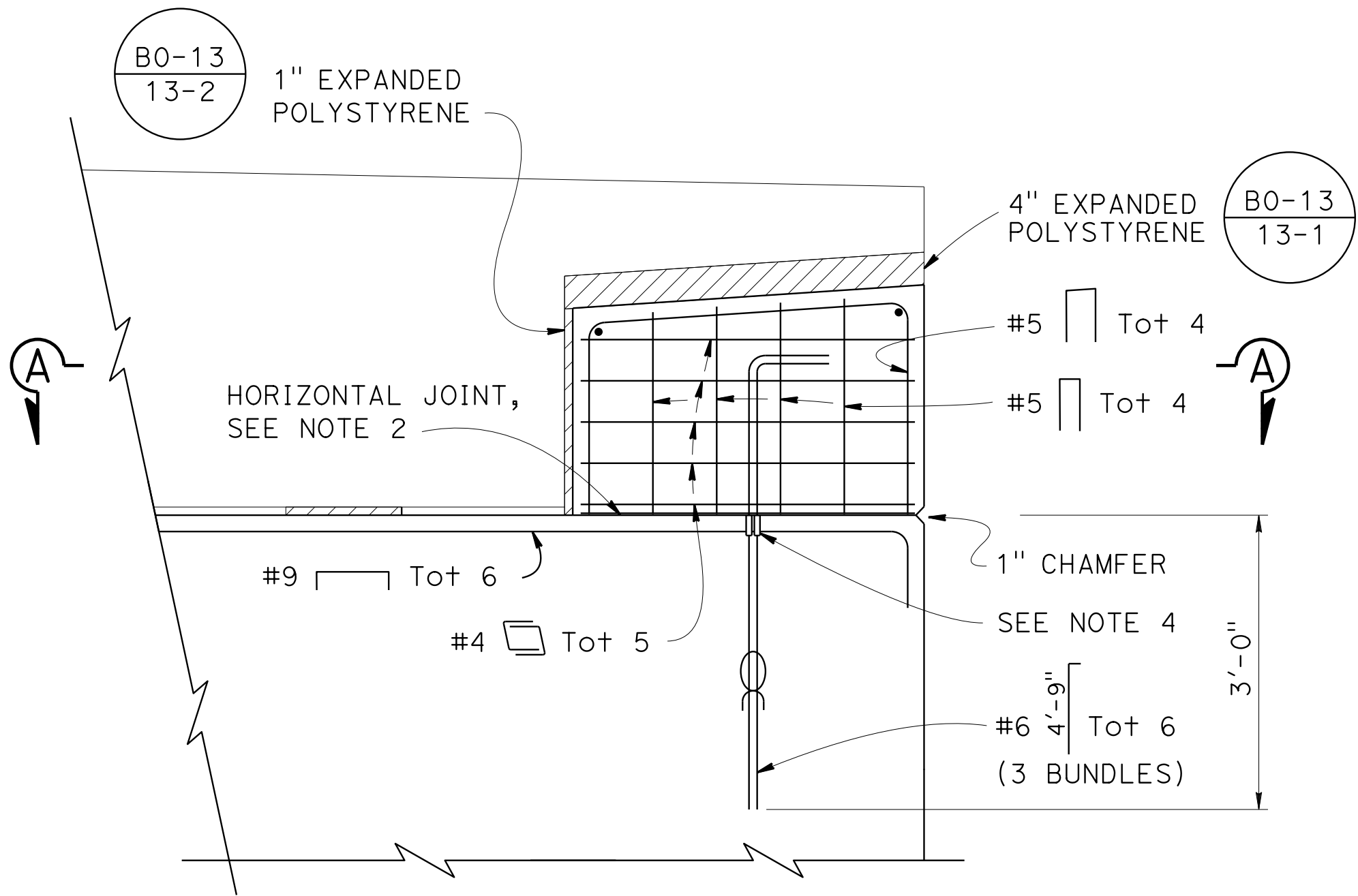
Exp. 6-30-21

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ACCELERATED BRIDGE CONSTRUCTION



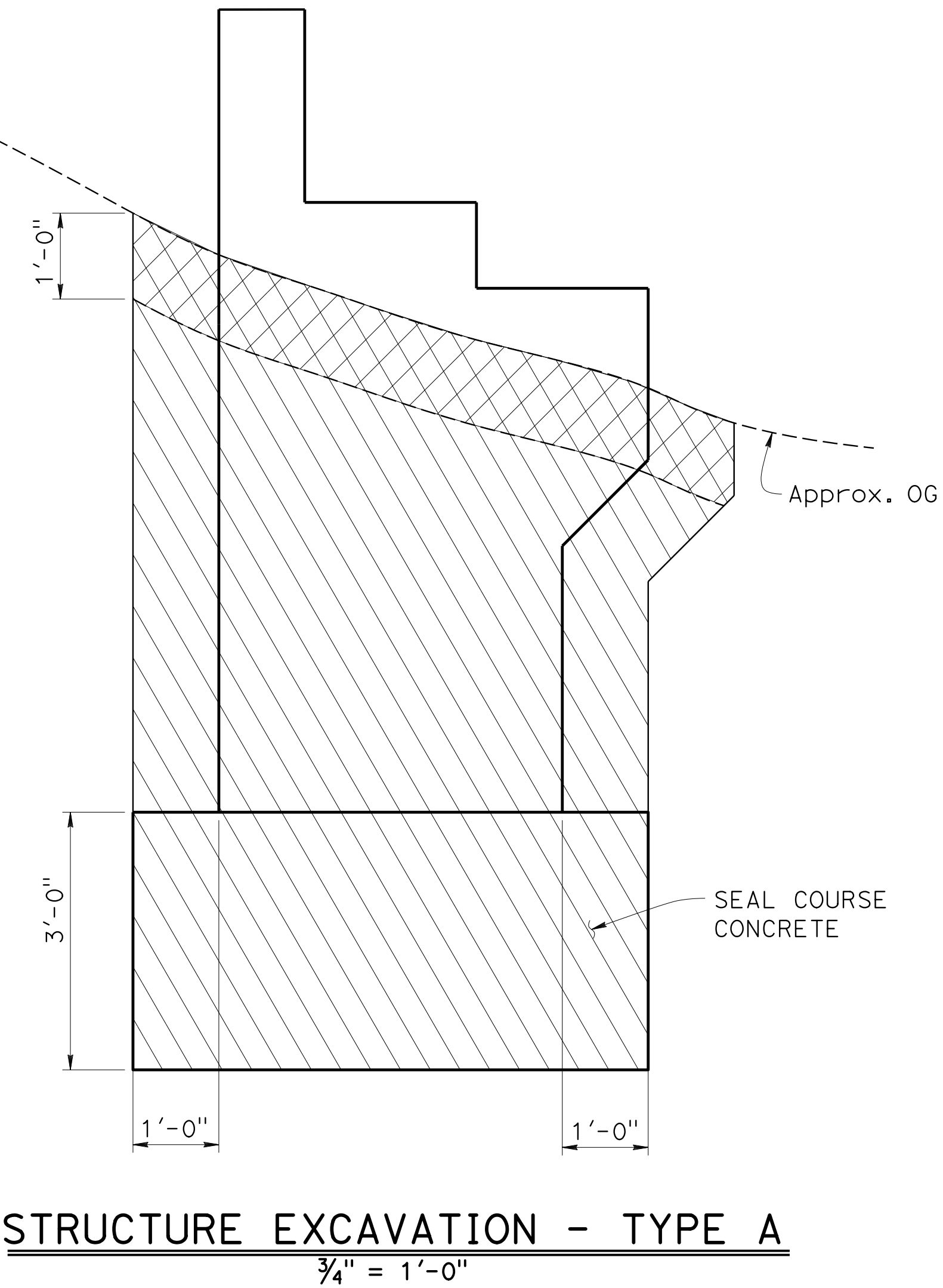
NOTE: Abutment 1 Right shown, other Wingwalls similar.

NOTES:

- For location of SECTION X-X and SECTION Y-Y, see "ABUTMENT LAYOUT" sheet.
- Horizontal Joint, level both directions, surface to be smooth finished and lined with 15 pound construction paper.
- Vertical Joint surfaces to be smooth finished and lined with 15 pound construction paper.
- Install Mechanical Couplers only at East Shear Key of permanent abutment.

LEGEND:

- Limit of Structure Excavation - Type A
- Limit of Structure Excavation (Type Z-2) (Aerially Deposited Lead) (Only at Median Abutments)



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)									
	DETAILS	BY Y. Tang/R. Kirkland	CHECKED H. Vu			04-0313L										
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE 84.5		ABUTMENT DETAILS No. 2								
DATE PLOTTED ==> 21-OCT-2019 TIME PLOTTED ==> 09:54 FILE ==> 0403131fadf02-08_detail.dgn USERNAME ==> s116738				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3589 PROJECT NUMBER & PHASE: 01130000911	CONTRACT No.: 01-0E0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES		SHEET	OF		
										6/24/18 2/24/19 5/08/19		8	17			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	63	71

Larry Wu

REGISTERED CIVIL ENGINEER

DATE

5-30-19

08-14-2019

PLANS APPROVAL DATE

LARRY WU

No. 57035

Exp. 6-30-21

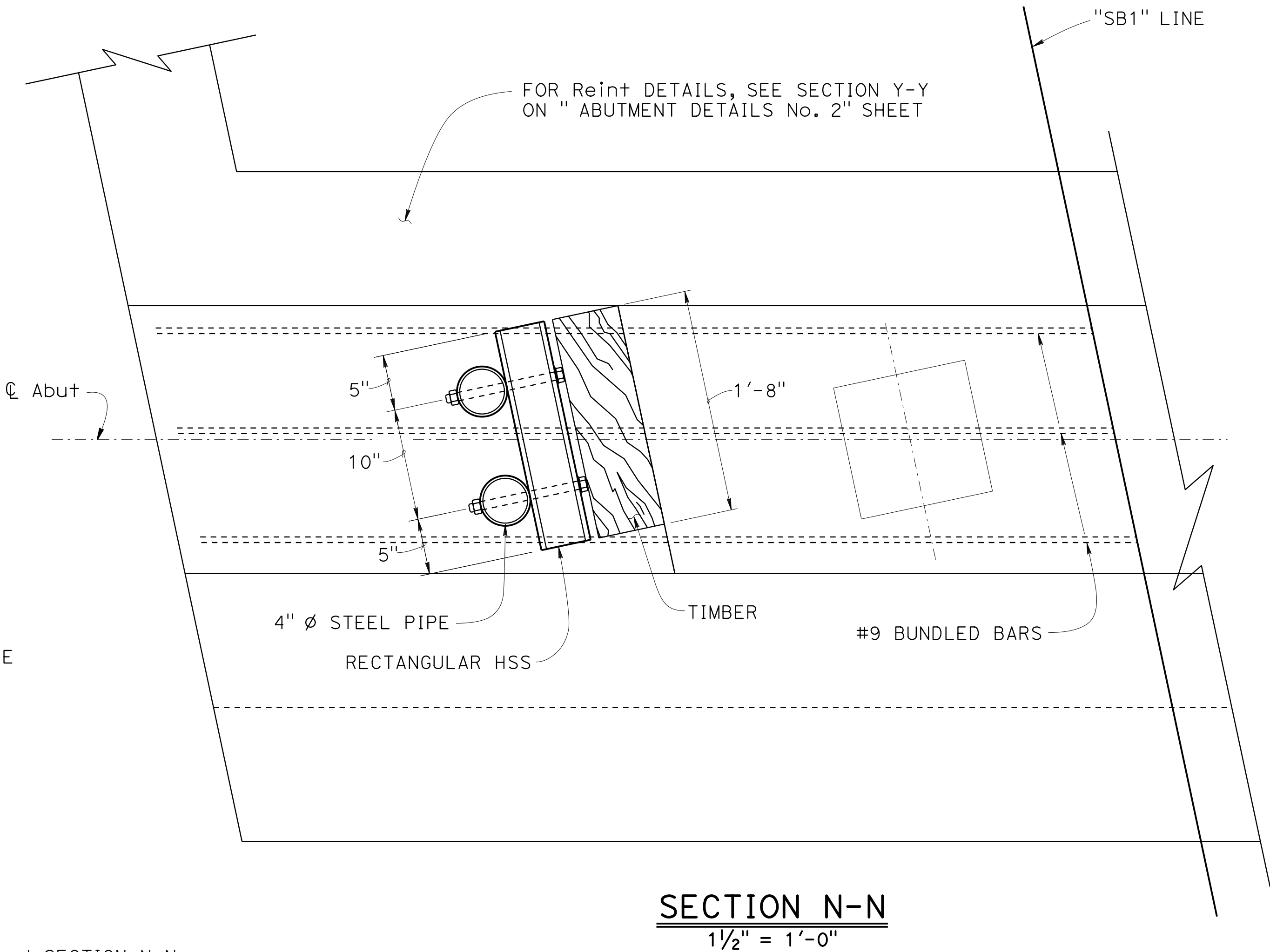
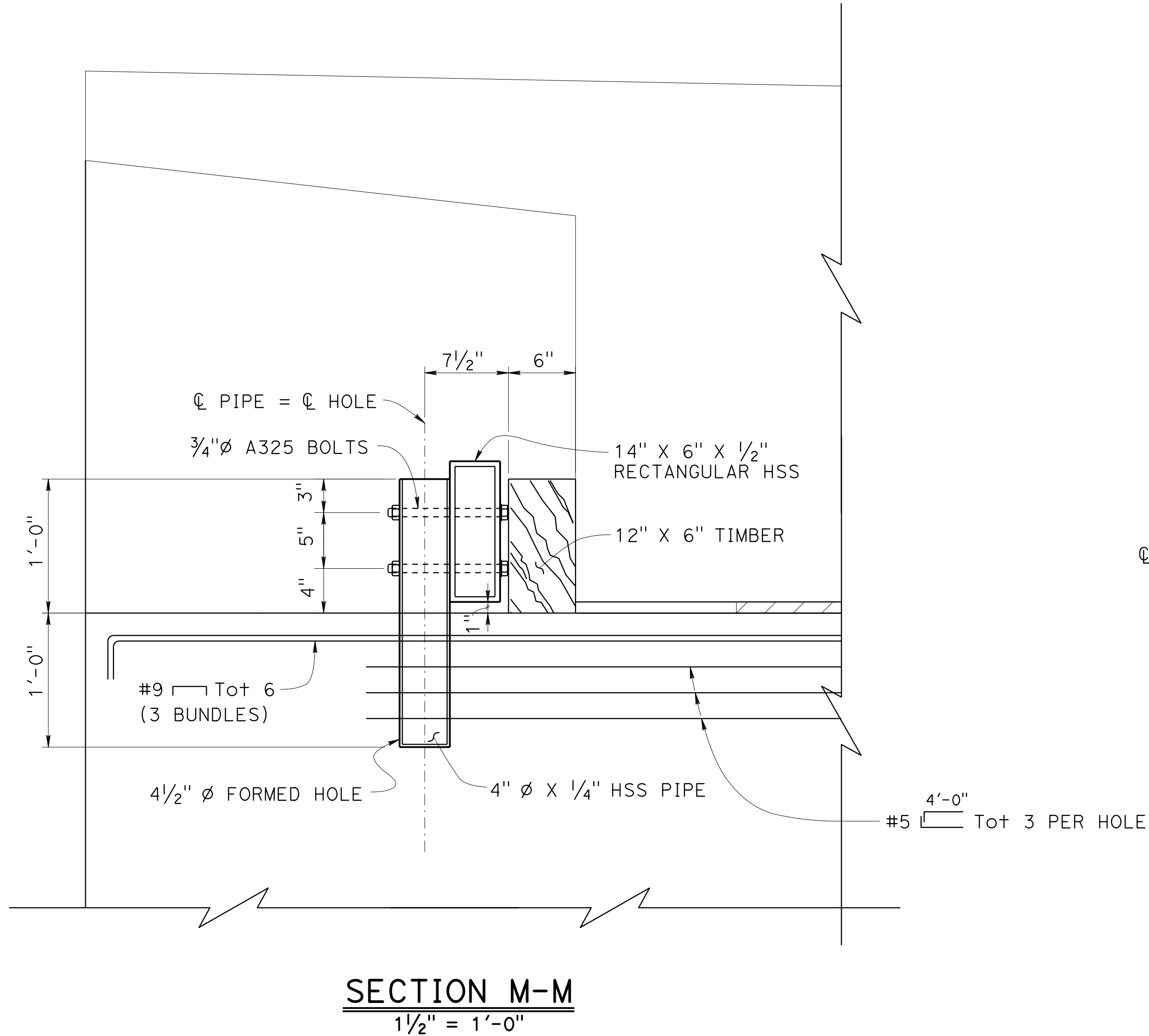
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NOTE:
For location of SECTION M-M and SECTION N-N,
see "ABUTMENT LAYOUT" sheet.

Larry Wu 5-30-19
REGISTERED CIVIL ENGINEER DATE

08-14-2019
PLANS APPROVAL DATE

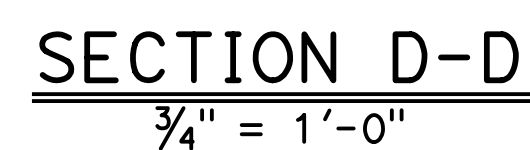
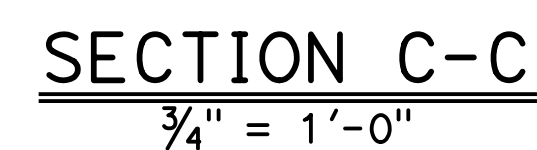
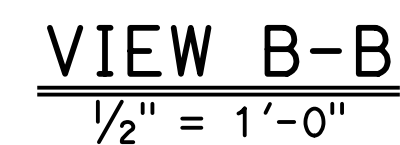
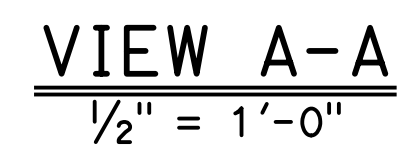
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REGISTERED PROFESSIONAL ENGINEER
LARRY WU
No. 57035
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA



NOTE:
RIGHT BRIDGE RAIL SHOWN,
LEFT BRIDGE RAIL SIMILAR

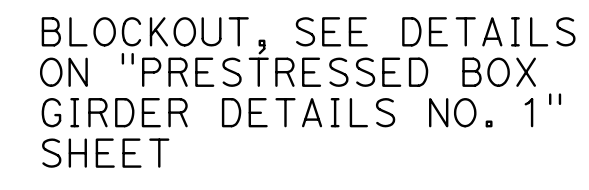


	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)									
	DETAILS	BY Y. Tang	CHECKED H. Vu			04-0313L										
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE	BARRIER DETAILS									
						84.5										
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DATE PLOTTED => 21-OCT-2019 TIME PLOTTED => 09:55 FILE => 0403131fbard010_detail.dgn USERNAME => s116738			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3589 PROJECT NUMBER & PHASE: 01130000911	CONTRACT NO.: 01-0E0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES 6/21/18 9-25-18 1-17-19			SHEET 10	OF 17

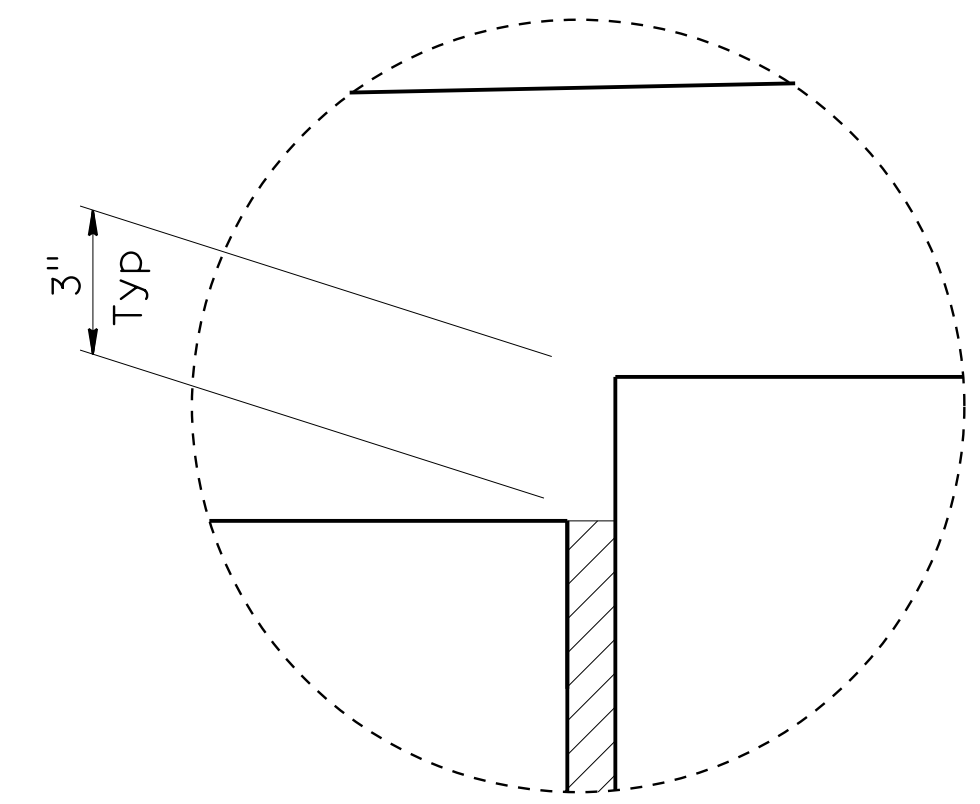
<u>Larry Wu</u>		5-30-19
REGISTERED CIVIL ENGINEER	DATE	
08-14-2019		
PLANS APPROVAL DATE		
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ACCELERATED BRIDGE CONSTRUCTION



TYPICAL SECTION
1/2" = 1'-0"



DETAIL A
NO SCALE

NOTES:

1. All longitudinal keyways and diaphragm blockouts shall be sandblasted in the precasting plant to remove laitance and enhance bond
2. Area around keyway and blockouts shall be kept moist for 24 hours prior to grouting between girders

LEGEND:

A Girder Designation

	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No.	JACOBY CREEK BRIDGE (LEFT) (REPLACE)																
	DETAILS	BY Y. Tang	CHECKED H. Vu			04-0313L																	
	QUANTITIES	BY L. Wu	CHECKED R. Anderson			POST MILE																	
						84.5	TYPICAL SECTION																
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																				11		17	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	66	71

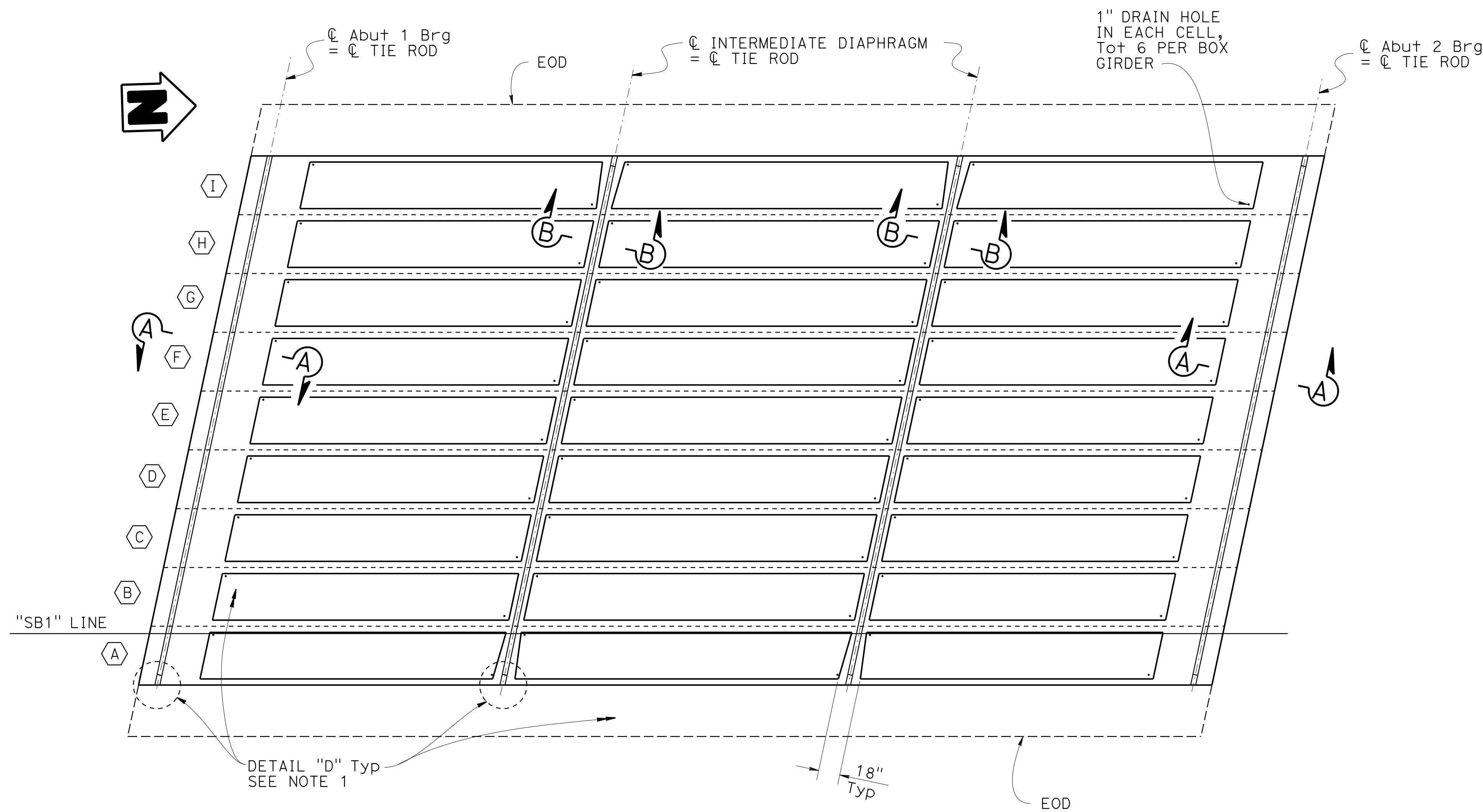
Larry Wu5-30-19
REGISTERED CIVIL ENGINEER DATE

08-14-2019
PLANS APPROVAL DATE

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GIRDER LAYOUT
1" = 5'-0"

TRANSVERSE POST TENSIONING NOTES:

1 3/8" HIGH STRENGTH TIE RODS, 150 ksi ASTM A722
Pjack = 150 kips

SUPERSTRUCTURE CONSTRUCTION SEQUENCE:

- Erect all PC/PS Box Girders
- Install transverse tie rods at diaphragms.
- Stress tie rods to 20% Pjack to snug the boxes.
- Fill all longitudinal keyways and diaphragm blockouts with non-shrink grout.
- Stress tie rods to Pjack after grout has cured to a minimum 5 ksi strength. Fill Tie Rod Blockouts with non-shrink grout.
- Place CIP deck and barrier rail.

NOTES:

- For "DETAIL D", see "PRESTRESSED BOX GIRDER DETAILS NO. 1" sheet
- For "SECTION A-A" and "SECTION B-B", see "PRESTRESSED BOX GIRDER DETAILS NO. 2" sheet.

LEGEND:

(A) Girder Designation

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

01

Hum

101

84.4/84.8

67

71

Larry Wu

5-30-19

REGISTERED CIVIL ENGINEER

DATE

08-14-2019

PLANS APPROVAL DATE

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LARRY WU

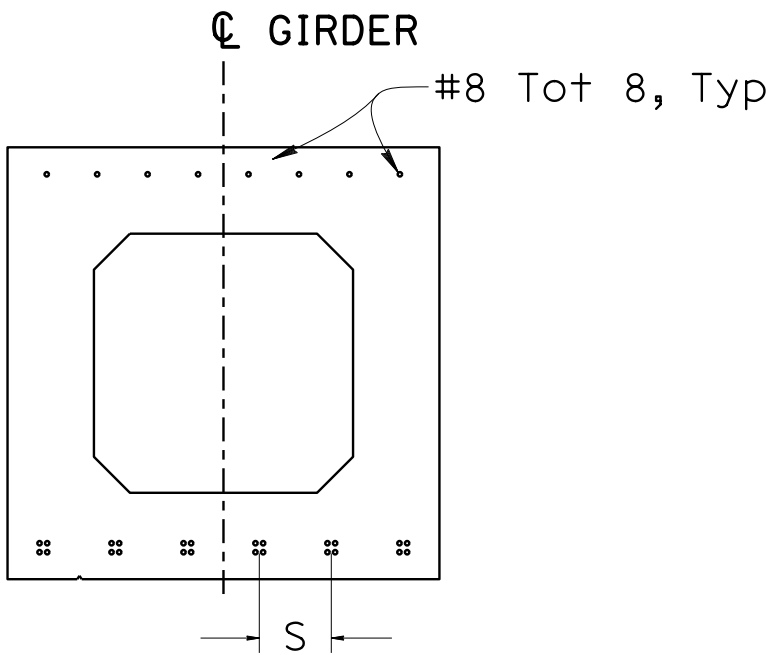
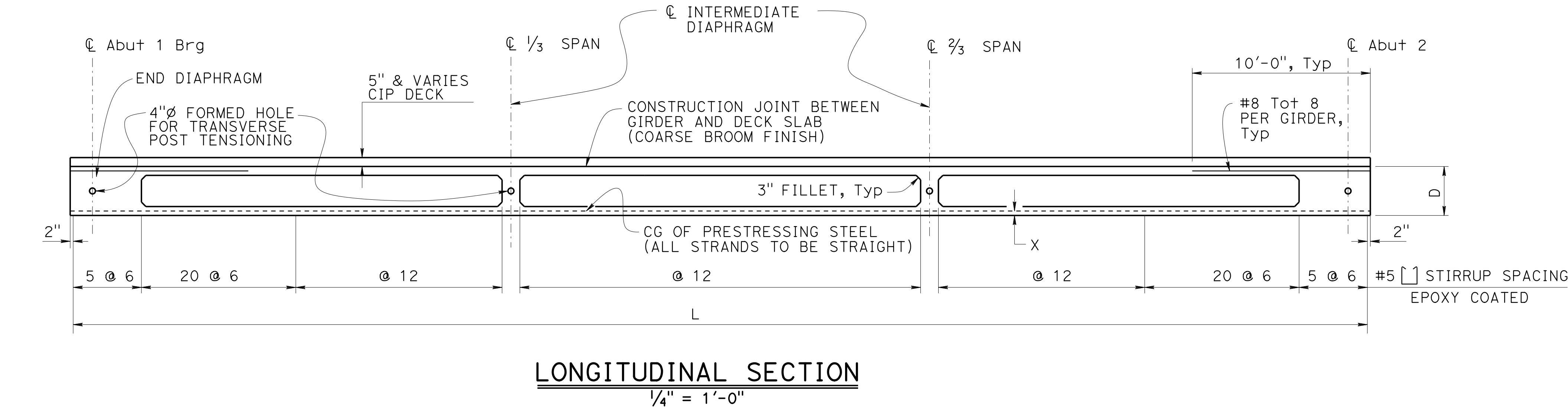
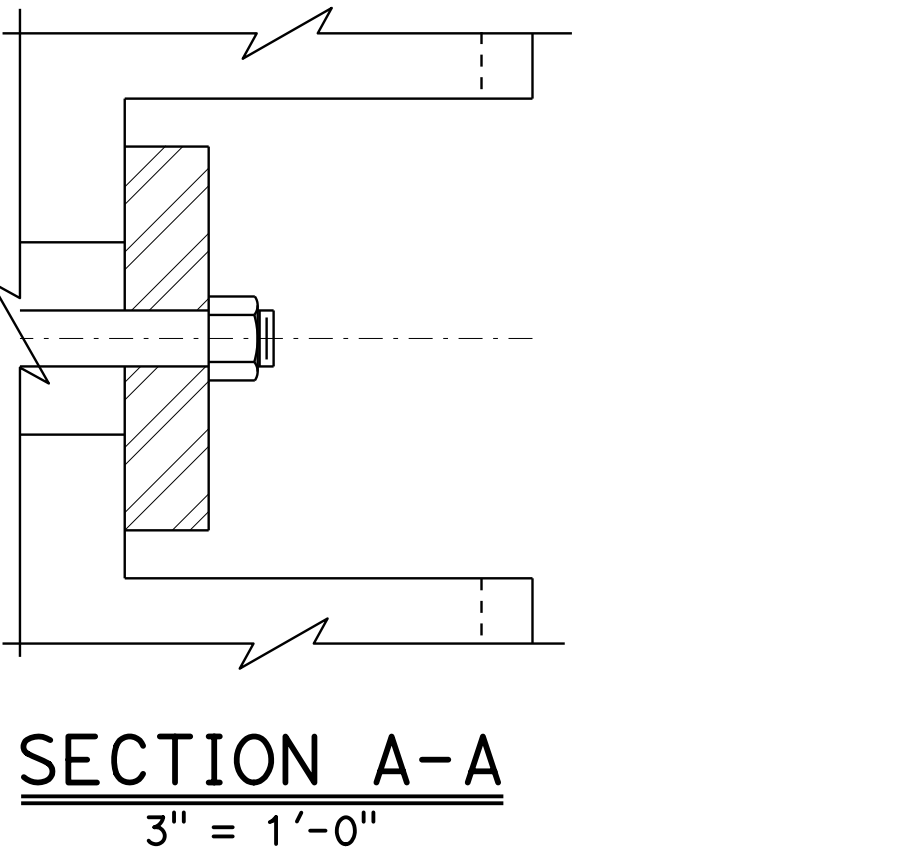
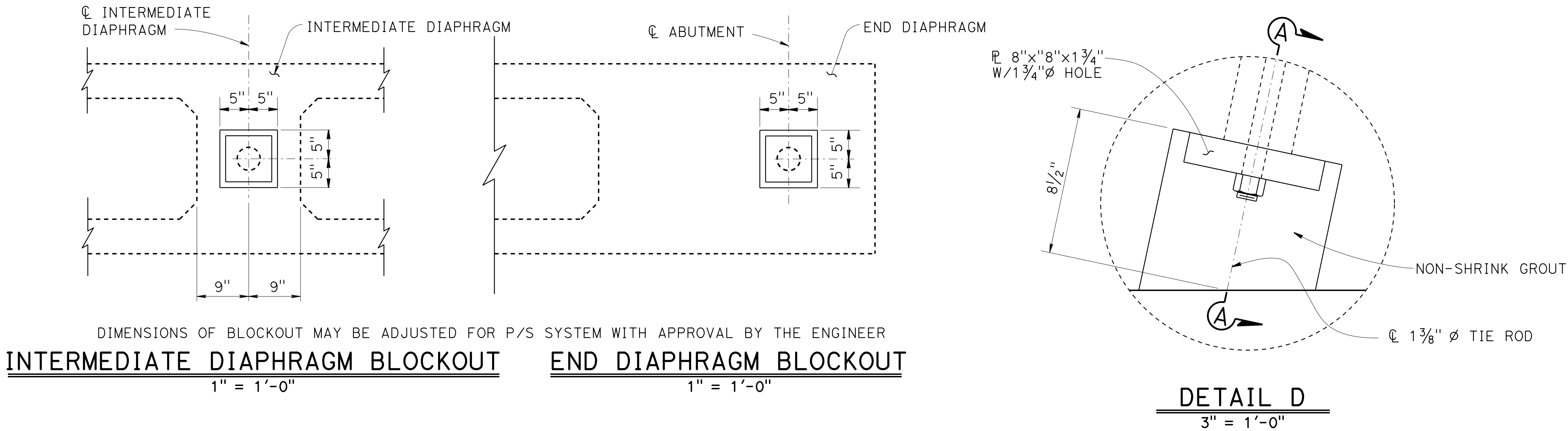
No. 57035

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ACCELERATED BRIDGE CONSTRUCTION



PRESTRESSING NOTES:

JACKING FORCE (P): The jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.

The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel.

CONCRETE STRENGTH: f'ci is at time of initial stressing

f'c is at 28 days

DEFLECTION COMPONENTS: Informational - to be used in setting screed line elevations

Screed line elevations for deck concrete will be determined by the Engineer.

Girder location or designation and length	Jacking Force (P) (Kips)		Concrete Strength (ksi)		Midspan Dead Load Deflection (inches)	
	X		f'ci	f'c	Deck	Rail
A B C L = 73'-0" D = 3'-3"	3 1/2"	800	4.5	6.0	0.5	0.1
D E F L = 73'-0" D = 3'-0"	3 1/2"	800	4.5	6.0	0.5	0.1
G H I L = 73'-0" D = 2'-9"	3 1/2"	800	4.5	6.0	0.5	0.1

- NOTES:
- Strands may be bundled in groups consisting of 2 vertically, 2 horizontally and separated at the ends
 - The Min distance "S" between groups is 1 1/2" for 3/8" ø strands, 1 3/4" for 1/2" ø strands, 2" for 0.6" ø strands
 - "S" is measured between centers of adjacent strand groups
 - Approval by the Engineer is required for deviation

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	68	71

Larry Wu

REGISTERED CIVIL ENGINEER

5-30-19

DATE

8-14-2019

PLANS APPROVAL DATE

LARRY WU

No. 57035

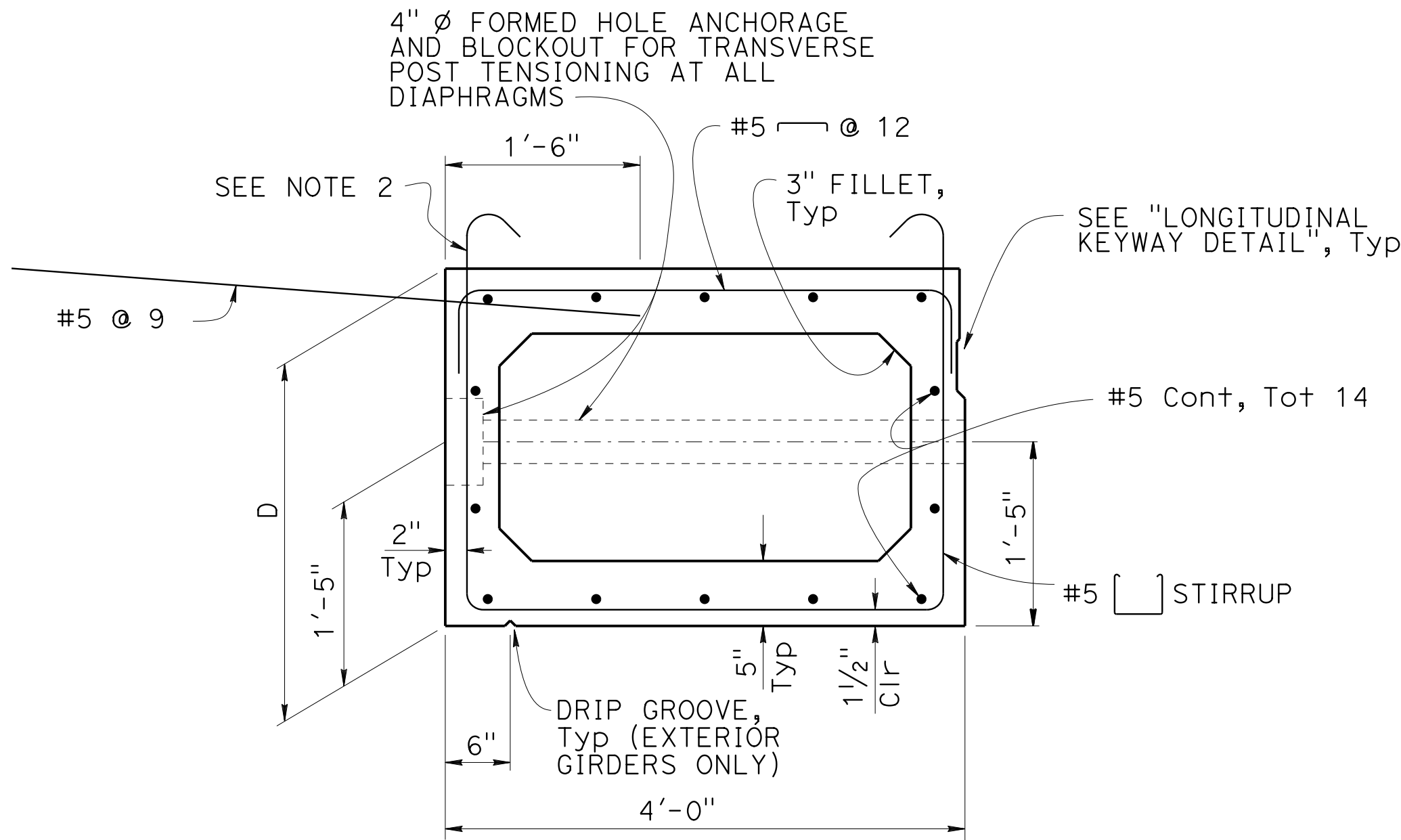
Exp. 6-30-21

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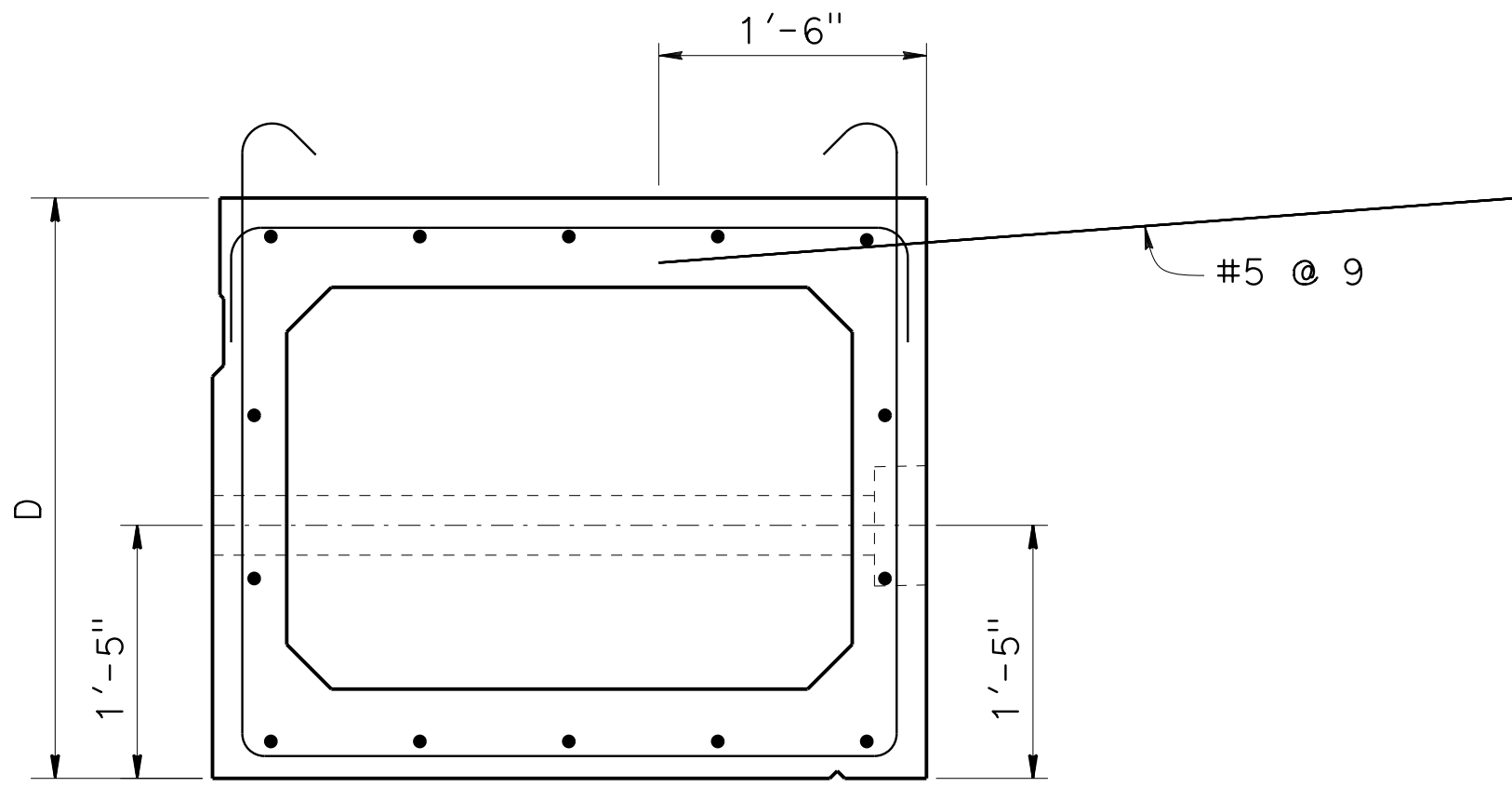
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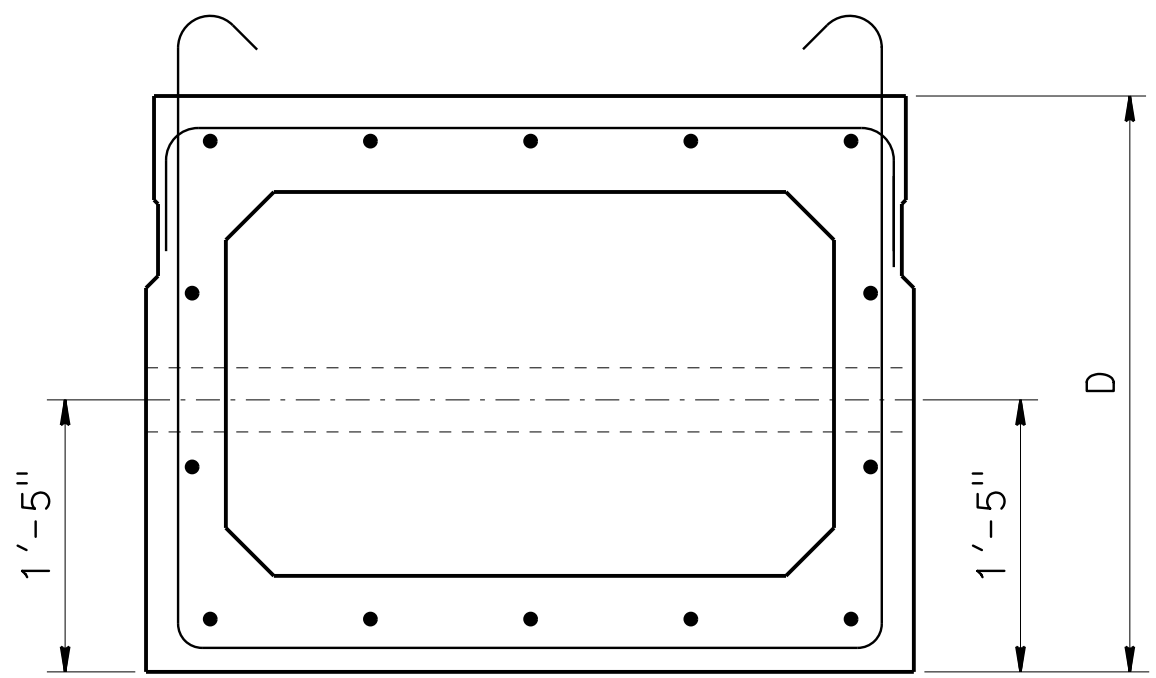
ACCELERATED BRIDGE CONSTRUCTION



EXTERIOR PC/PS BOX GIRDER (I)
1" = 1'-0"

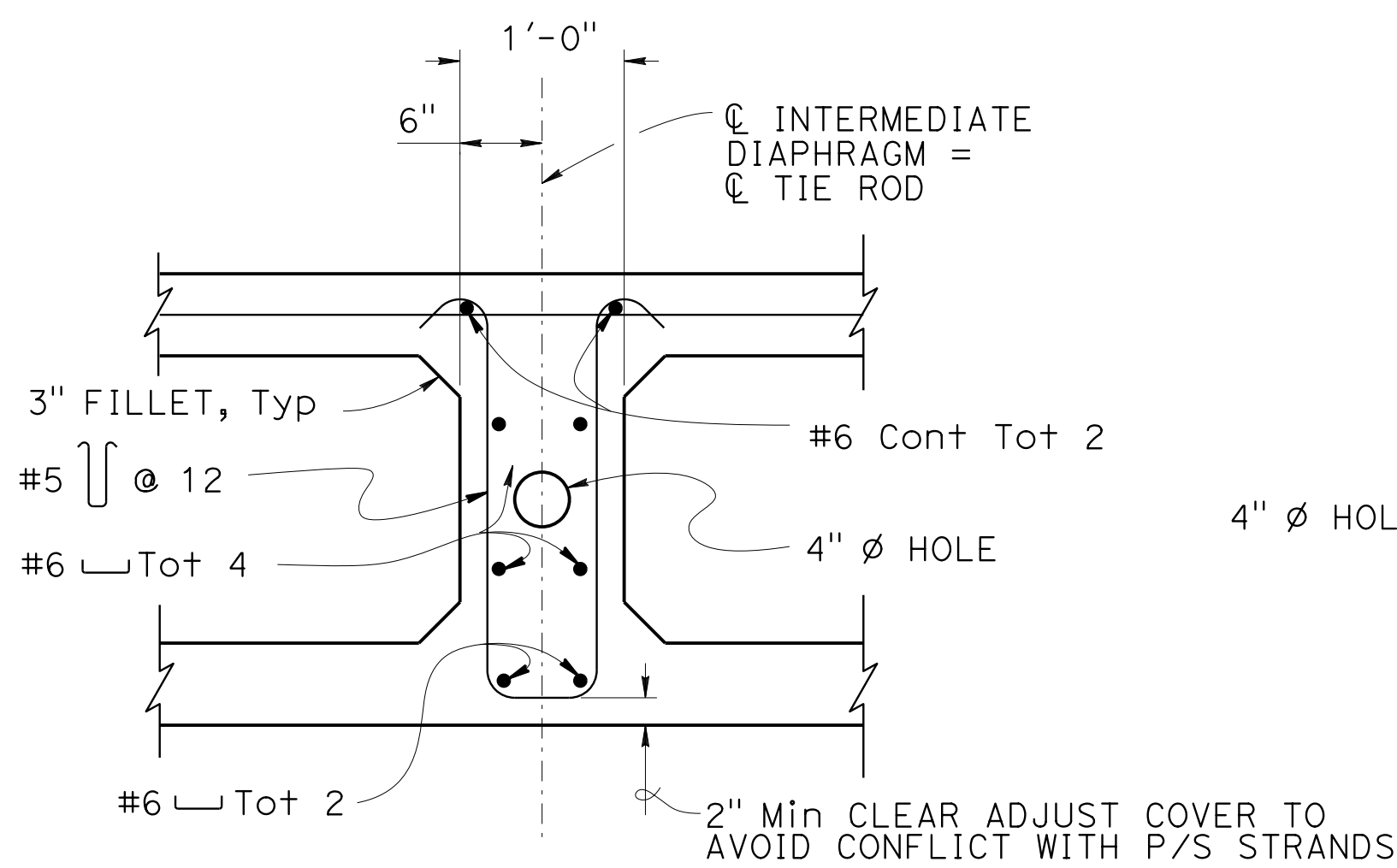


EXTERIOR PC/PS BOX GIRDER (A)
1" = 1'-0"

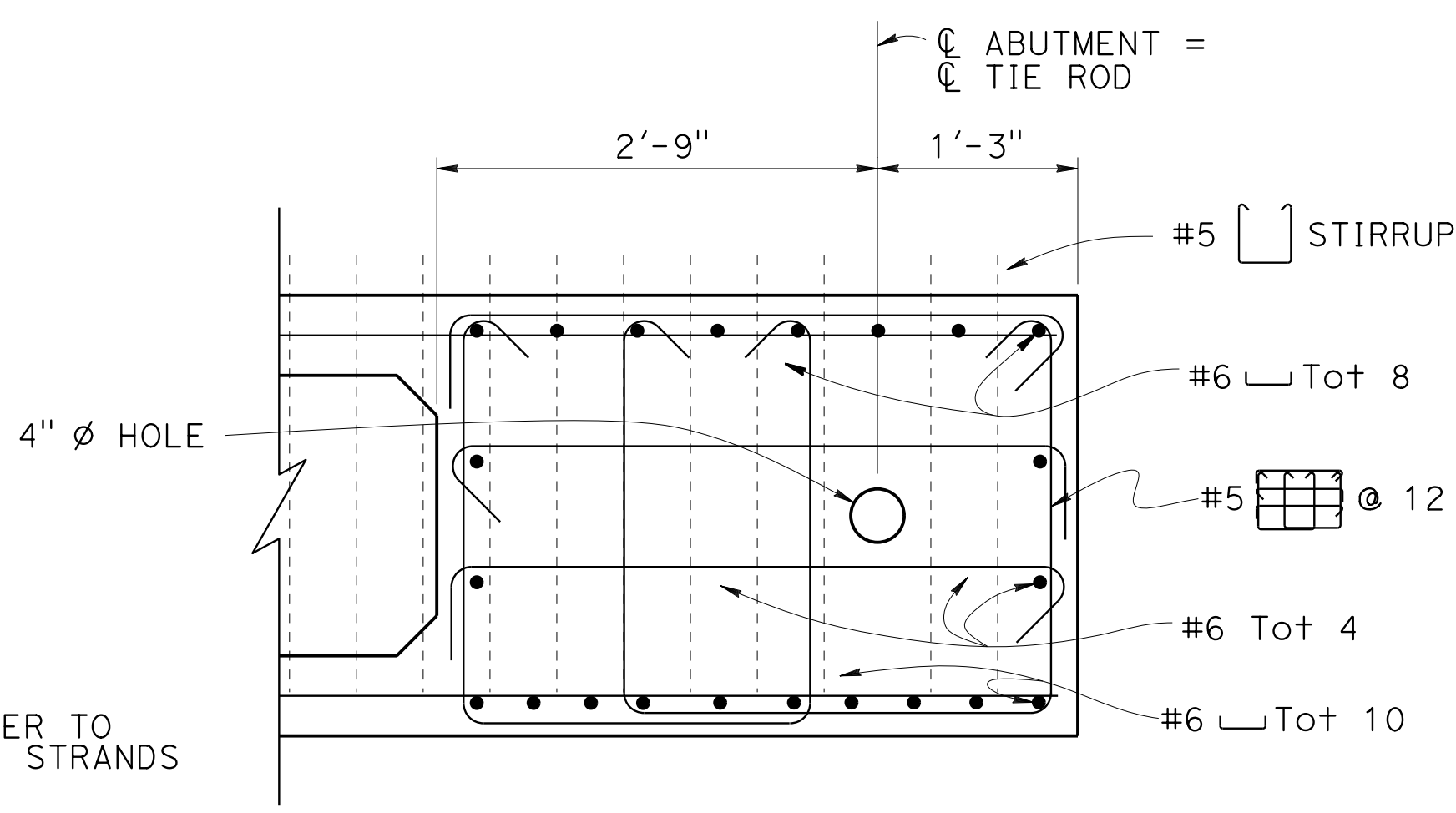


FOR DETAILS NOT SHOWN SEE
"EXTERIOR PC P/S BOX GIRDER (I)" DETAIL

INTERIOR PC/PS BOX GIRDER
1" = 1'-0"



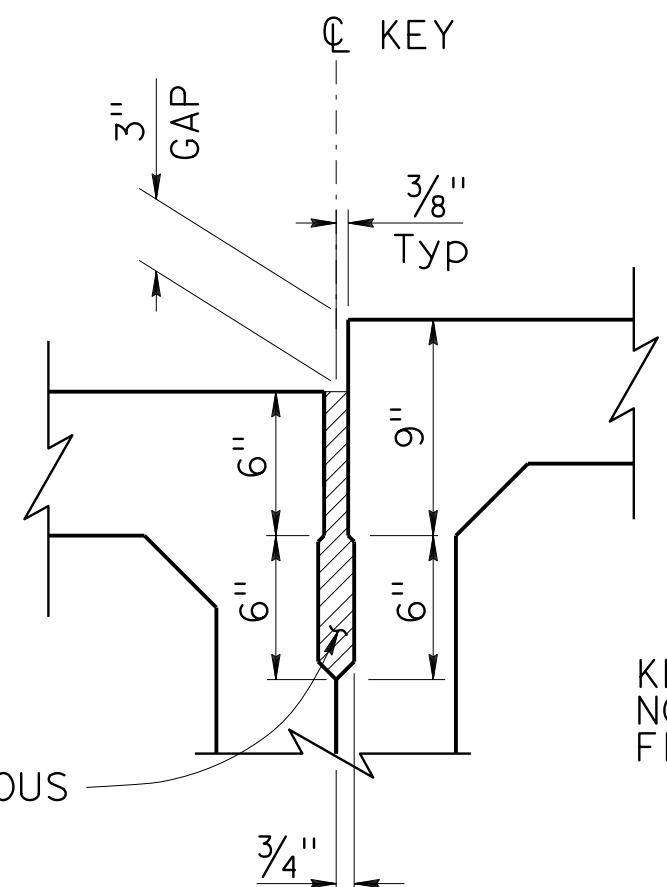
SECTION B-B
INTERMEDIATE DIAPHRAGM
1" = 1'-0"



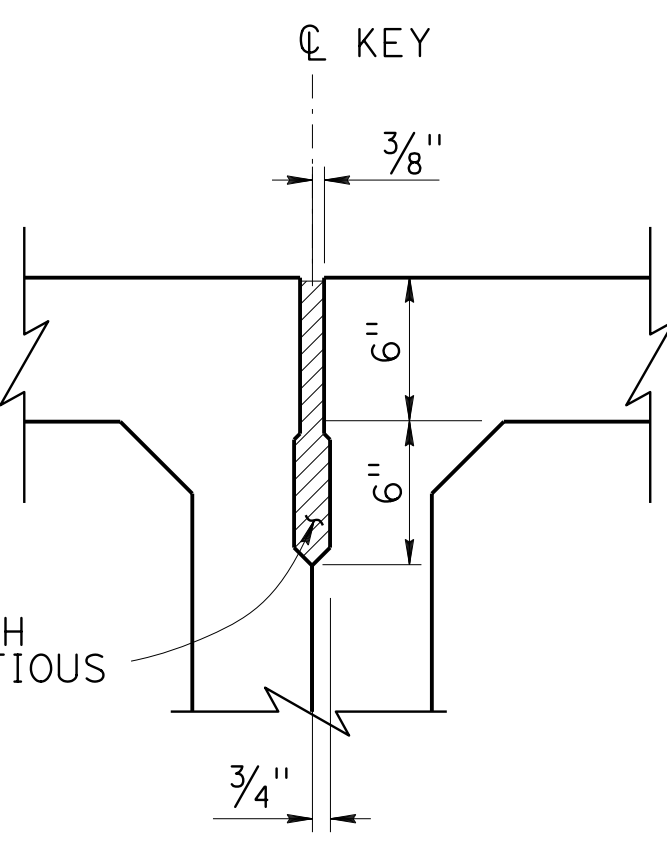
SECTION A-A
END DIAPHRAGM AT ABUTMENTS
1" = 1'-0"

LEGEND:
(A) Girder Designation

- NOTES:
- Adjust mild steel spacing to avoid conflict with P/S strands or tie rods.
 - Adjust tail length of stirrups to match with deck cross slope, may bend hook at field. Field bent reinforcement must be epoxy coated.
 - For location of "SECTION A-A" and "SECTION B-B" see "GIRDER LAYOUT" sheet.
 - For Dimension D, see Table on "PRESTRESSED BOX GIRDER DETAILS NO. 1" sheet.
 - All reinforcement shall be epoxy coated prefabricated except as noted in Note 2.



WITH STEP



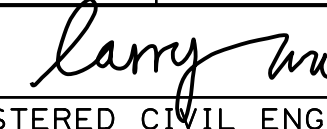
WITHOUT STEP

3 **REPLACED PER ADDENDUM No. 3, DATED DECEMBER 30, 2019** **LONGITUDINAL KEYWAY DETAIL**
1 1/2" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 5/8/2018)	DESIGN	BY L. Wu	CHECKED H. Vu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE No. 04-0313L	JACOBY CREEK BRIDGE (LEFT) (REPLACE) PRESTRESSED BOX GIRDER DETAILS No. 2			
	DETAILS	BY Y. Tang	CHECKED H. Vu			POST MILE 84.5				
	QUANTITIES	BY L. Wu	CHECKED R. Anderson							
DATE PLOTTED => 23-DEC-2019 TIME PLOTTED => 14:56 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3589 PROJECT NUMBER & PHASE: 0113000091		CONTRACT No.: 01-0E0001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
								11-02-17 12-23-19 1/08/19	14	17

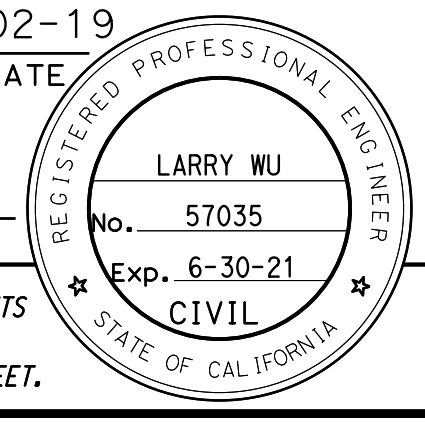
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	84.4/84.8	68A	71


REGISTERED CIVIL ENGINEER

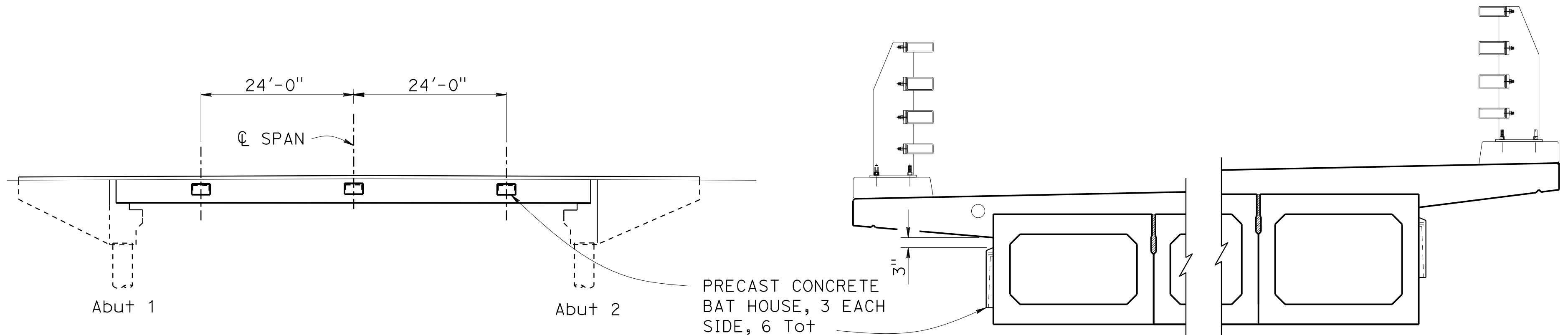
12-02-19
DATE

08-14-19
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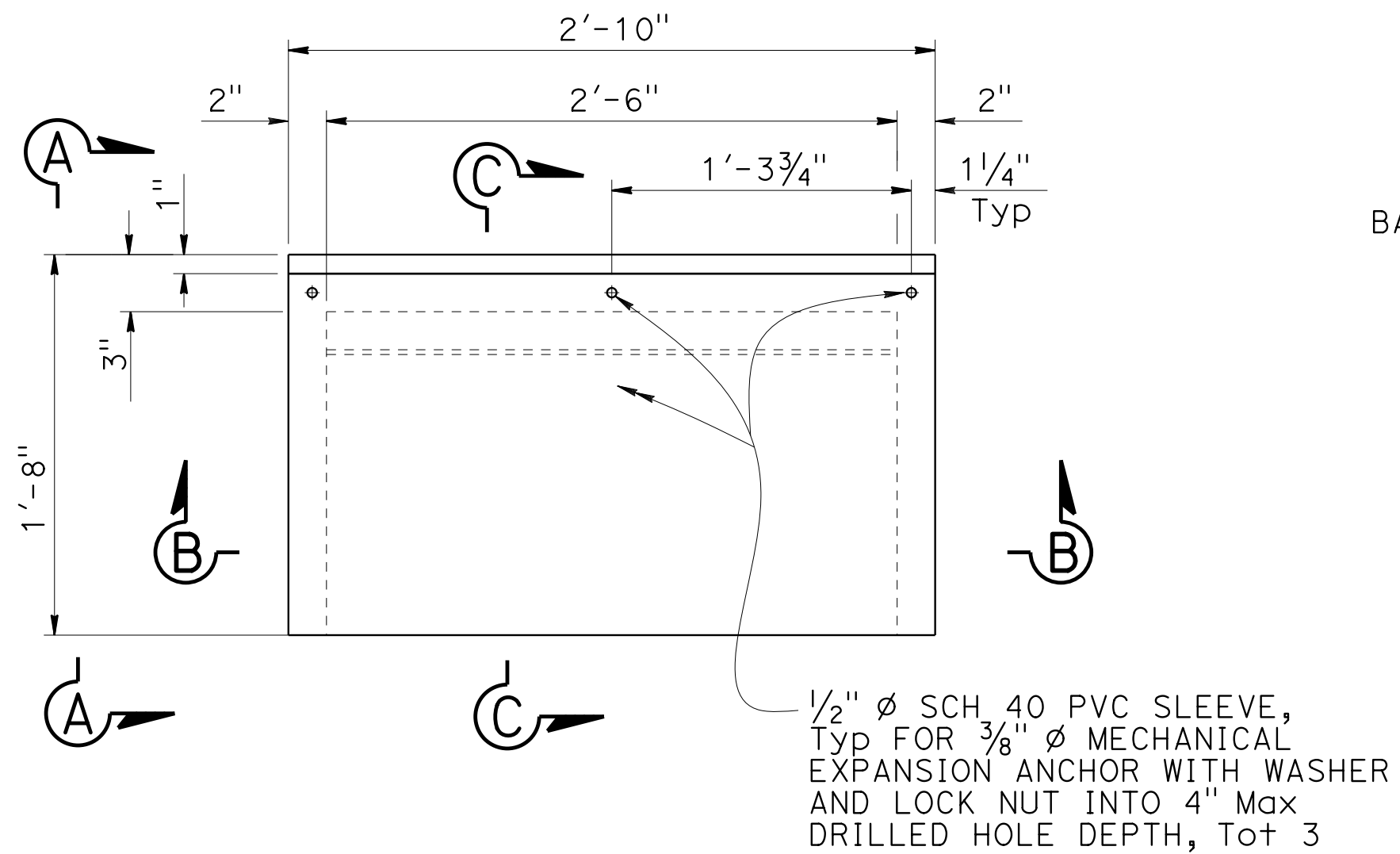
Caltrans
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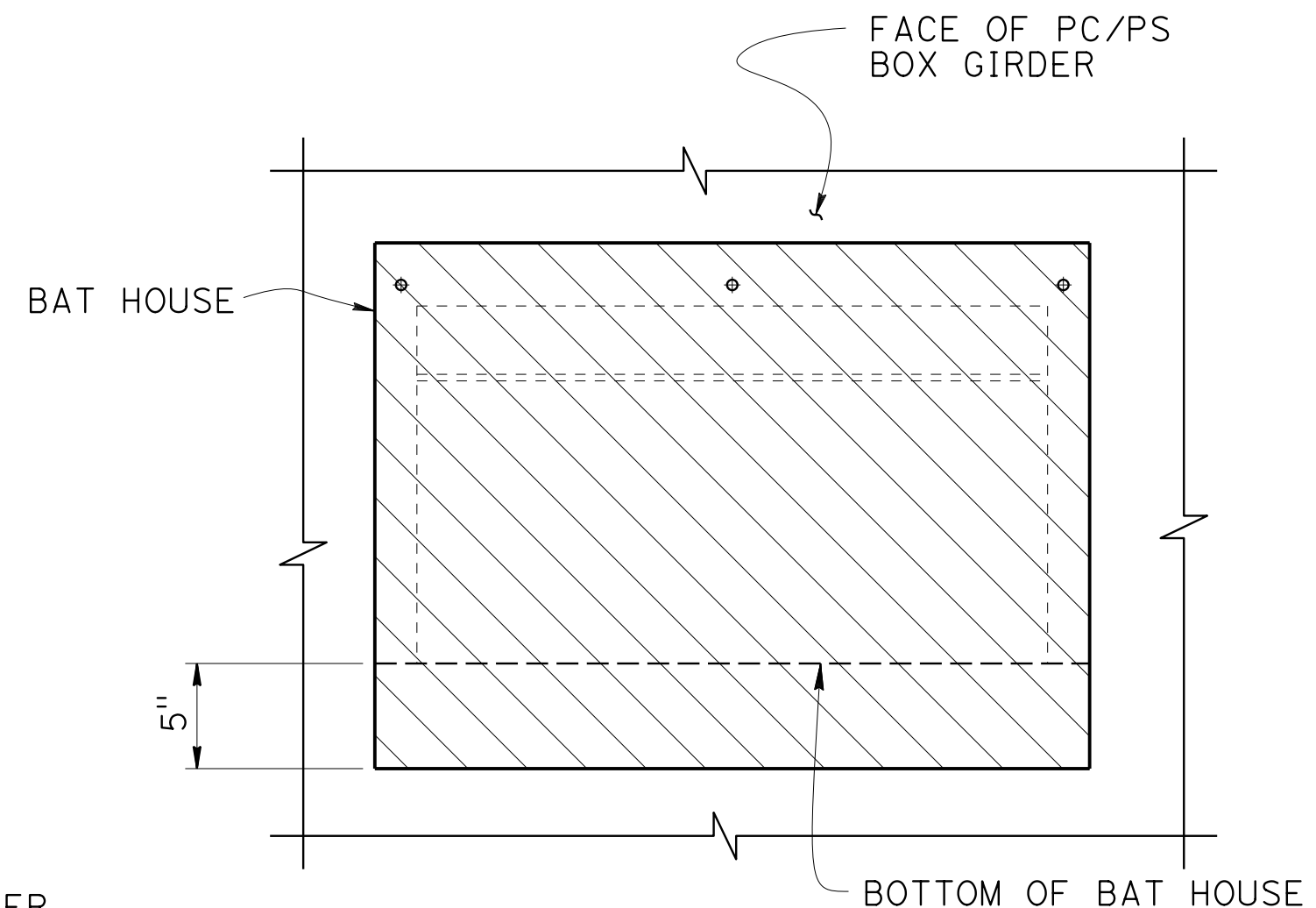
ELEVATION - BAT HOUSE LOCATIONS
NO SCALE

SECTION- BAT HOUSE LOCATIONS
1/2" = 1'-0"

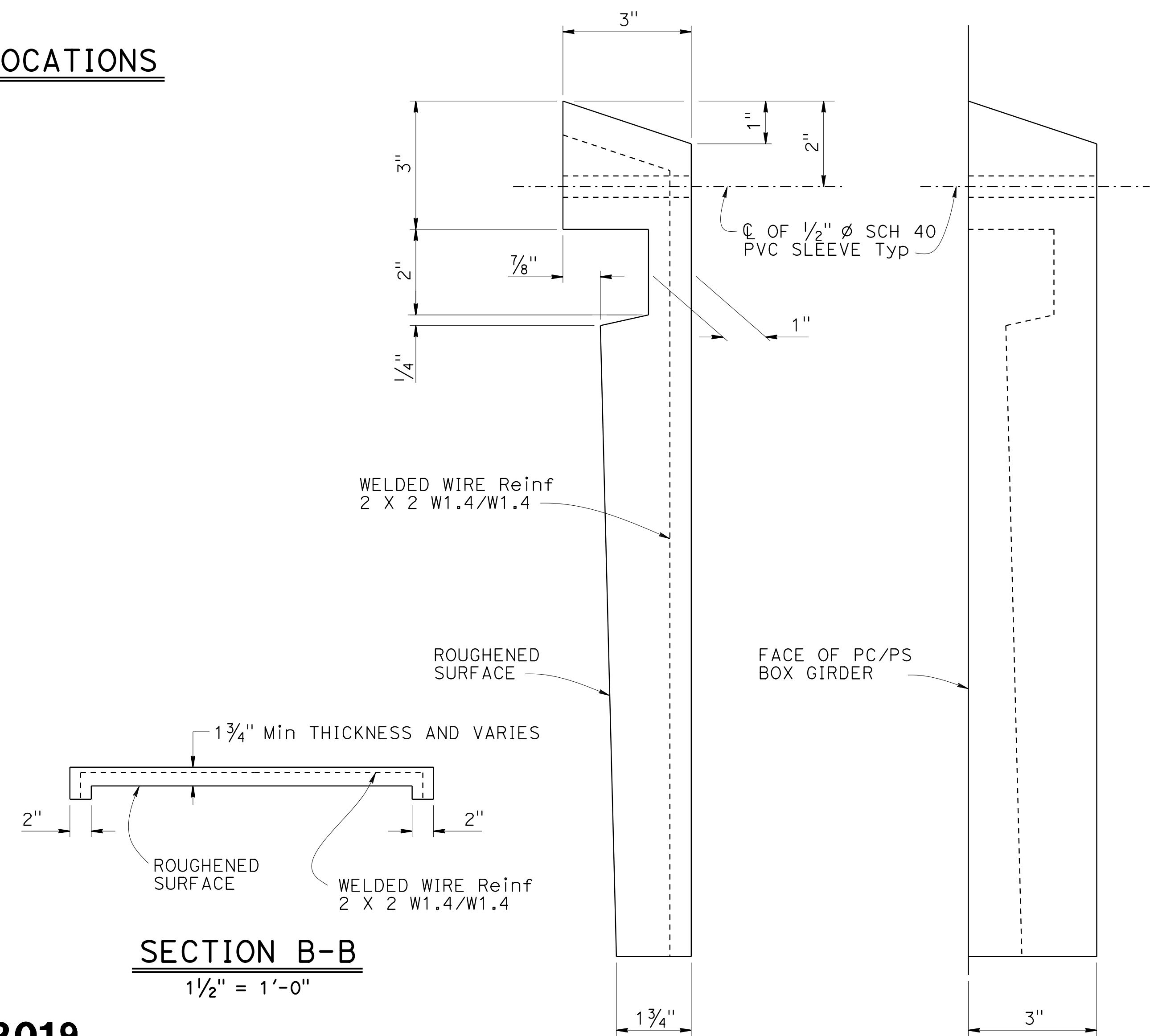
- NOTES:
1. Roughen the inside surface of bat house and PC/PS Box Girder to an amplitude of 1/8".
 2. Place bat houses on both sides of the bridge
- Indicates concrete roughened surface.



ELEVATION - BAT HOUSE
1 1/2" = 1'-0"



CONCRETE SURFACE ROUGHENING
NO SCALE



SECTION B-B
1 1/2" = 1'-0"

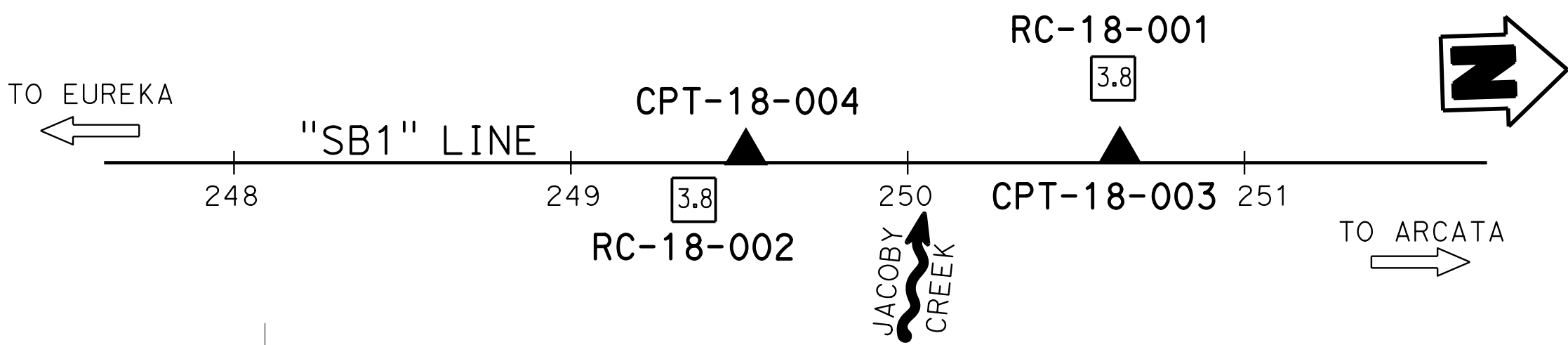
SECTION C-C
6" = 1'-0"

VIEW A-A
6" = 1'-0"

1 ADDED PER ADDENDUM No. 1, DATED DECEMBER 09, 2019

BENCH MARK

Hum 101 8452 Elev: 9.83'
5/8" Rebar and Aluminum cap
Sta 251+46.5, 108.6' Rt to SB1 Line
N 2197431.29
E 5985826.04
Horizontal: CCS83 (2004.69) ZONE 1,
U. S. Survey foot
Vertical: NAVD88



PLAN

1" = 40'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Hum	101	84.4/84.8	69	71


PROFESSIONAL GEOLOGIST

1-17-19

08-14-2019

PLANS APPROVAL DATE

Eric A. Wilson

No. 8303

Exp. 08-31-19

STATE OF CALIFORNIA

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See 2015 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.



PROFILE

Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES			GEOTECHNICAL SERVICES			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10		BRIDGE NO. 04-0313L		JACOBY CREEK BRIDGE (LEFT)								
FUNCTIONAL SUPERVISOR NAME: C. Narwold		DRAWN BY: C. Wu, S. Jiang, I. G-Remmen		FIELD INVESTIGATION BY: E. Wilson						POST MILE 84.5							LOG OF TEST BORINGS 1 OF 3			
06S CIVIL LOG OF TEST BORINGS SHEET						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3650 PROJECT NUMBER & PHASE: 01130000911		CONTRACT NO.: 01-0E0004		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET		OF	
						0 1 2 3							06-12-18 06-14-18 07-05-18 01-04-19		15		17			

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS



FILE => 040313Z10tbt15.dgn

DATE PLOTTED => 21-OCT-2019 USERNAME => s116738 TIME PLOTTED => 09:55

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 3"



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Hum	101	84.4/84.8	70	71

1-17-19
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Eric A. Wilson
No. 8303
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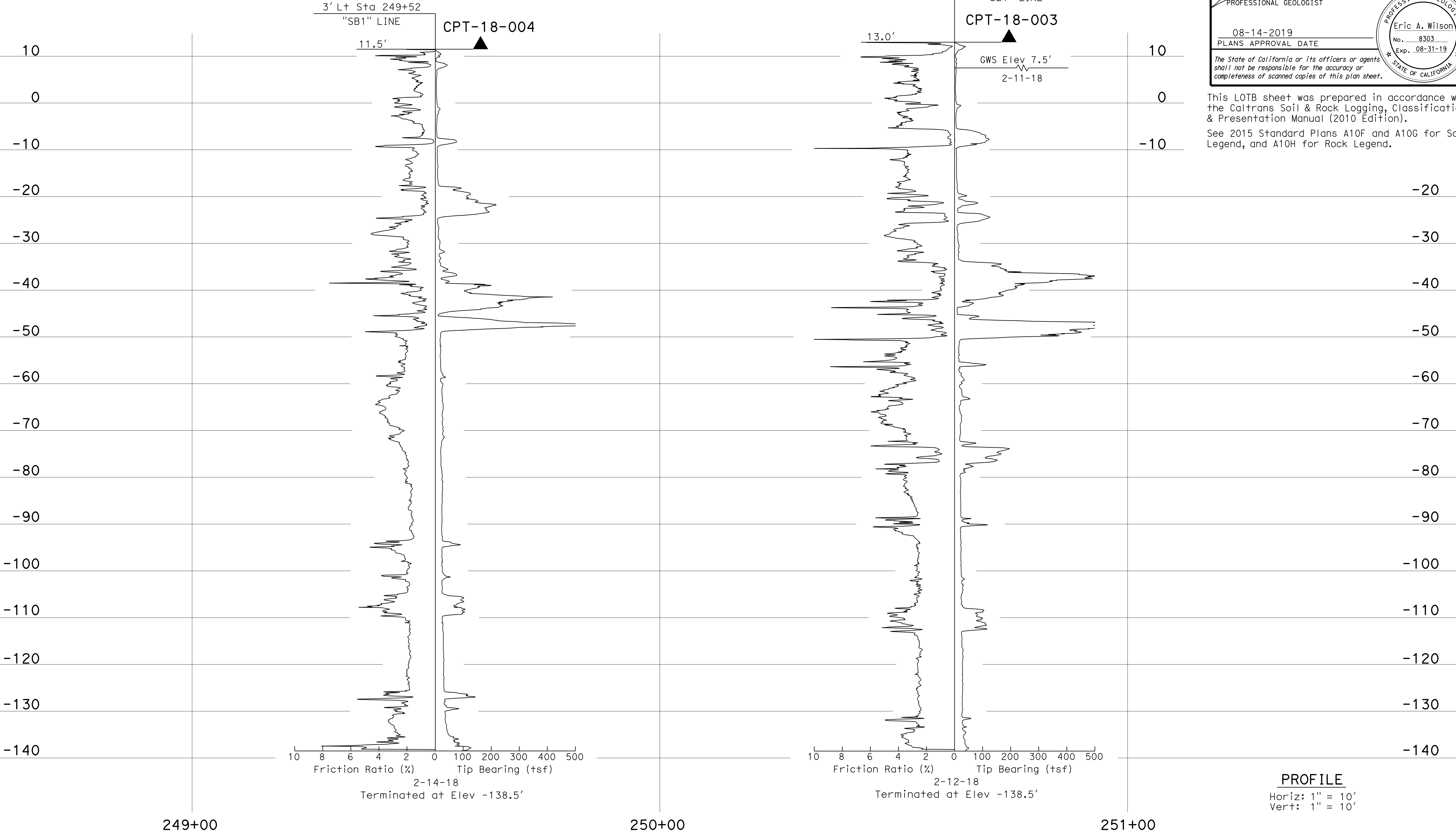
PROFILE

Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10	BRIDGE NO.		JACOBY CREEK BRIDGE (LEFT)	
FUNCTIONAL SUPERVISOR		DRAWN BY: C. Wu, S. Jiang, I.G-Remmen				04-0313L		LOG OF TEST BORINGS 2 OF 3	
NAME: C. Narwold		CHECKED BY: L. Winkler-Prins				POST MILE		84.5	
				FIELD INVESTIGATION BY: E. Wilson					
OOS CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3650 PROJECT NUMBER & PHASE: 01130000911		CONTRACT NO.: 01-OE0004	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
								06-12-18 06-14-18 07-05-18 01-04-19	
								SHEET 16 OF 17	

Note: Groundwater was not measured in CPT-18-004

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 3"



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Hum	101	84.4/84.8	71	71

1-17-19

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PROFILE

Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 10		BRIDGE NO. 04-0313L POST MILE 84.5		JACOBY CREEK BRIDGE (LEFT) LOG OF TEST BORINGS 3 OF 3			
FUNCTIONAL SUPERVISOR NAME: C. Narwold		DRAWN BY: IG-Remmen CHECKED BY: L. Winkler-Prins		FIELD INVESTIGATION BY: E. Wilson		UNIT: 3650 PROJECT NUMBER & PHASE: 01130000911		CONTRACT NO.: 01-0E0004		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
										REVISION DATES 01-03-18 01-04-19		SHEET 17	

06S CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

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