

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	19	36

4. Materials (Cont.):
- (G) All anchor bolts, threaded rods, and other hardware, including nuts and washers, which connect steel to concrete shall be high-strength bolts conforming to ASTM F1554, Grade 55, unless otherwise noted.
 - (H) All bolts which connect steel to steel shall be high-strength bolts conforming to ASTM A325, Type 1, unless otherwise noted.
 - (I) All structural steel shapes and plates shall be ASTM A123 Hot-Dip Galvanized after fabrication. Bolts, nuts, and washers shall be ASTM A153 Hot-Dip Galvanized.
 - (J) All welds shall be in conformity with the structural welding code AWS D1.5 of the American Welding Society (AWS). Electrodes shall be E70.
5. Reinforcement:
- (A) The covering measured from the surface of the concrete to the face of any reinforcing bars shall be as follows, except as otherwise shown:
 - (1) Deck slabs
 - a. Top bars = 2" with a tolerance of - 0 inch to +3/8 inch
 - b. Bottom bars = 2" except as otherwise noted
 - (2) Wing walls = 2"
 - (3) Approach slab top bars = 2"
Approach slab bottom bars = 3"
 - (4) Concrete cast against and permanently exposed to earth = 3"
 - (5) All others unless otherwise noted = 2".
 - (B) Reinforcing bars shall be detailed in accordance with the latest edition of the A.C.I. Detailing Manual unless otherwise noted.
 - (C) Minimum clear spacing between parallel bars shall be 1 1/2 times the diameter of bars (for non bundled bars). In no case shall the clear distance between the bars be less than 1 1/2 times the maximum size of the coarse aggregate or 1 1/2".
 - (D) All dimensions relating to reinforcing bars are to centers of bars unless otherwise noted.
 - (E) Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of intersections is less than one foot in each direction, in which case alternate intersections shall be tied.

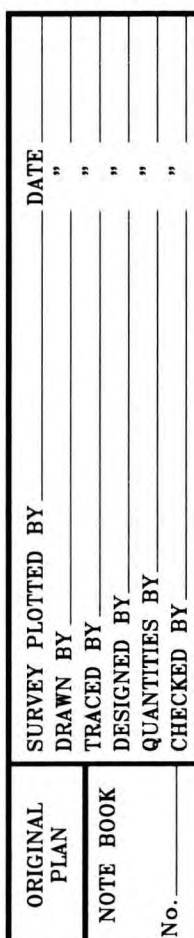
6. Construction Notes (Cont.):
- (C) The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
 - (D) The Contractor shall verify the location of all utility lines and notify the respective owners before commencing with excavation, and any temporary piling or sheeting.
 - (E) The Contractor shall submit working drawings and calculations for the proposed bracing/falsework details needed to protect the existing structures from increases in the existing load due to equipment, drilled shaft rigs, cranes, vehicles and fresh concrete, etc. The drawings and calculations shall be stamped by a licensed Structural Engineer and a licensed Civil Engineer specializing in geotechnical engineering in the State of Hawaii. The above work, including working drawings and calculations, shall be incidental to various Contract items. The drawings and calculations shall be found acceptable by the Engineer before any construction work is to proceed.
 - (F) The entire length of the bike path shall have a surface texture that complies with American Disabilities Act Accessibility Guidelines Section 4.3.6. and a minimum friction coefficient of 0.35 (see Caltrans Test Method 34.2).
 - (G) For areas that are not broom finished, the surface of the concrete path shall have an abrasive coating according to Specification Section 712.11.
 - (H) Except as otherwise noted, all vertical dimensions are measured plumb.
 - (J) For concrete finish see Standard Specifications and Special Provisions.
 - (K) Construction joints may be relocated or additional ones added subject to the acceptance of the Engineer.
 - (L) Unless otherwise noted, all exposed concrete edges shall be chamfered 3/4" x 3/4".
 - (M) Drilled holes in existing concrete for reinforcing steel dowels shall not be left unfilled for more than 8 hours. Epoxy in drilled holes shall develop the full strength of the dowels prior to pouring concrete around reinforcing steel dowels or attaching structural steel member to threaded rod dowels. Holes for epoxied dowels shall be 1/8" larger than dowel diameter.
 - (N) Where specified that the concrete surface is to be roughened and cleaned the concrete shall be roughened to a full amplitude of 1/4 of an inch.

<u>Item No.</u>	<u>Structural Parts</u>	<u>Classes of Concrete</u>	<u>Compressive Strength f'c (28 Days)</u>
(1)	Bridge Deck	-	5000 PSI
(2)	Abutment, Wing Wall, and Retaining Wall	-	5000 PSI
(3)	Abutment, Wing Wall, and Retaining Wall Footings	-	5000 PSI
(4)	Approach slab	-	4000 PSI
(5)	Except as noted otherwise, all others	A	3000 PSI

A Shrinkage Reducing Admixture (SRA), Tetraguard AS20 by Master Builders or Eclipse by W.R. Grace & Co., or accepted equal, shall be added to the concrete mix for Item No. (1). The Minimum dosage requirement shall be 128 ounces per cubic yard of concrete.

- (B) *All reinforcing steel shall be ASTM A 615 Grade 60 unless otherwise noted.*
- (C) *Reinforcing steel shall be ASTM A 706 where welded connections are required.*
- (D) *Glass fiber reinforced polymer (GFRP) reinforcing bars shall have a minimum elastic modulus of 8,800,000 psi and shall have a guaranteed minimum tensile strength of 141 ksi for #4 bar, 163 ksi for #5 bar, and 150 ksi for #6 bar.*
- (E) *All structural steel shapes and plates shall conform to ASTM A36, hot-dip galvanized unless otherwise noted.*
- (F) *All structural steel W beams shall conform to ASTM A709 Grade 50, hot-dip galvanized unless otherwise noted.*

- (A) *The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.*
- (B) *The Contractor shall verify all site conditions and not rely upon these plans for existing bridge elevations and azimuths, stream channel location, roads, roadway gutters, curbs and sidewalks, etc.. Conditions may differ from those shown.*



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A-01-13

Scale: None Date: April 24, 2017

SHEET No. **80.1** OF 3 SHEETS

SYMBOLS AND ABBREVIATIONS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	21	36

¢	And	Demo.	Demolish, Demolition	GDI	Grated Drain Inlet	OG	Outside Girder,
@	At	Def.	Detail	GFRP	Glass Fiber Reinforced		Outbound Girder
Ø	Diameter	Dia.	Diameter		Polymer Rebar	Perf.	Perforated
≥	Greater Than or Equal to	Diaph.	Diaphragm	Gr.	Grade	PL	Plate
≤	Less Than or Equal to	Dim.	Dimension	Grd.	Ground	PCC	Portland Cement Concrete
#	Number	Dist.	Distance	GRP	Grouted Rubble Pavement	PC	Point of Curvature
		DO	Ditto			PCF	Pounds per Cubic Foot
Abut.	Abutment	Dwls.	Dowels	Ht.	Height	P(e)	Effective Prestress Force
Abbr.	Abbreviation	Dn.	Down	(H)	Hinge		After All Losses
Add.	Additional	Dbl.	Double	Horiz., H	Horizontal	PPM	Parts Per Million
Alt.	Alternate	DI	Drain Inlet, Ductile Iron	HDOT	State of Hawaii Department of Transportation	PSF	Pounds per Square Foot
AB	Anchor Bolt	Dwg., Dwgs.	Drawing, Drawings			PSI, psi	Pounds per Square Inch
AC	Asphaltic Concrete	DS	Drilled Shaft	HDPE	High Density Polyethylene	PLF	Pounds per Linear Foot
Approx.	Approximate			HS	High strength	PI	Point of Intersection of Tangents
Az.	Azimuth	E	East	HECO	Hawaiian Electric Company		
		EA, Ea., ea.	Each			PIVC	Point of Intersection of Vertical Curve
Bk.	Back	EF	Each Face	IB	Inbound		
Bal.	Balance	EFH	Each Face Horizontal	In.	Inch	PT	Point of Tangency
B	Baseline	EFV	Each Face Vertical	ID	Inside Diameter	Pt., Pts.	Point, Points
Bm.	Beam	EW	Each Way	IF	Inside Face	PRC	Point of Reverse Curvature
Brg., Brgs.	Bearing, Bearings	EPE	Existing Edge of Pavement	Int.	Interior	PVC	Polyvinyl Chloride
BVC	Beginning of Vertical Curve	EPS	Expanded Polystyrene	Inv.	Invert	Prestr.	Prestressed
Bet.	Between	ES	Edge of Shoulder			P/S	Prestressed Strands
BF	Both Faces	Elec.	Electrical	Jt.	Joint	PB	Pull Box
BW	Both Ways	EMH	Electrical Manhole				
BFE	Bottom of Footing Elevation	El., Elev.	Elevation	K	Kips	Rad., R	Radius
Bot., Bott., B	Bottom	Emb.	Embankment	KF	Kip Foot	RF	Rear Face
BOF	Bottom of Footing	EVC	End of Vertical Curve	KSF	Kips Per Square Foot	Rebar	Reinforcing Bar
Br.	Bridge	Eq.	Equal	KSI	Kips Per Square Inch	Ref.	Reference
Blt.	Bolt	Est.	Estimated	KLF	Kips Per Linear Foot	Reinf.	Reinforced, Reinforcing, Reinforcement
		Exc.	Excavation				
Cant.	Cantilever	Excl.	Excluding	L	Length	Req'd.	Required
CIP	Cast Iron Pipe	Exist., Ex.	Existing	lb., lbs., LBS.	Pound, Pounds	Ret.	Retaining
	Cast-In-Place	Exp., (E)	Expansion	Ltg. Std.	Lighting Standard	ROW	Right of Way
¢	Center line	EJ	Expansion Joint	LF, Lin. Ft.	Linear Feet/Foot	Rdwy.	Roadway
CG	Center of Gravity	Ext.	Exterior	LS	Lump Sum		
cc	Center to Center			Longit.	Longitudinal	Sect.	Section
CFCW	Continuous Flashing Compound	(F)	Fixed			SRW	Segmental Retaining Wall
	Waterproofing	FA	Force account	M	Modified	Sht.	Sheet
Cl.	Class	FB	Flat Bar	MH	Manhole	Sim.	Similar
Clr.	Clearance	FC	Compression Stresses	Max.	Maximum	Sl.	Slope
CO	Clean Out	f'c	Specified Compressive Strength of Concrete at 28 days	Mech.	Mechanical	S	South
Col.	Column	f'ci	Specified Compressive Strength of Concrete at Time of Initial Prestress	Min.	Minimum	Spc., Spg.	Spaces, Spacing
Conc.	Concrete			Misc.	Miscellaneous	Sprd.	Spread
CBW	Concrete Barrier Wall			MPH	Miles Per Hour	Spec.	Specification
CMU	Concrete Masonry Unit					SF	Square Feet
CRM	Concrete Rubble Masonry	FF	Far Face, Front Face	NF	Near Face	SY	Square Yard
Conn.	Connection	Fig.	Figure	N	North	SS	Stainless Steel
Const.	Construction	Fin. Gr.	Finish Grade	NIC	Not in Contract	Std.	Standard
CJ	Construction Joint	FRP	Fiberglass Reinforced Plastic	No.	Number	Sta.	Station
Cntl. Jt.	Control Joint	FT	Tensile Stresses	NTS	Not to Scale	Stiff.	Stiffener
CLSM	Controlled Low Strength Material	Ftg.	Footing			Stirr.	Stirrup
		Ft.	Feet, Foot			Stl.	Steel
Cont.	Continuous			O/S	Offset	Str.	Straight
CSL	Crosshole Sonic Log	Ga.	Gage, Gauge	oc	On Center		
CF	Cubic Feet	Galv.	Galvanized	Opn'g	Opening		
CY, Cu. Yd.	Cubic Yard	G, Gir.	Girder	OB	Outbound		
				OD	Outside Diameter		

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Revised: 24 Apr. 2017
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JOSEPH T. MIYAKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.

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EXPIRATION DATE OF THE LICENSE: 4-30-18

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

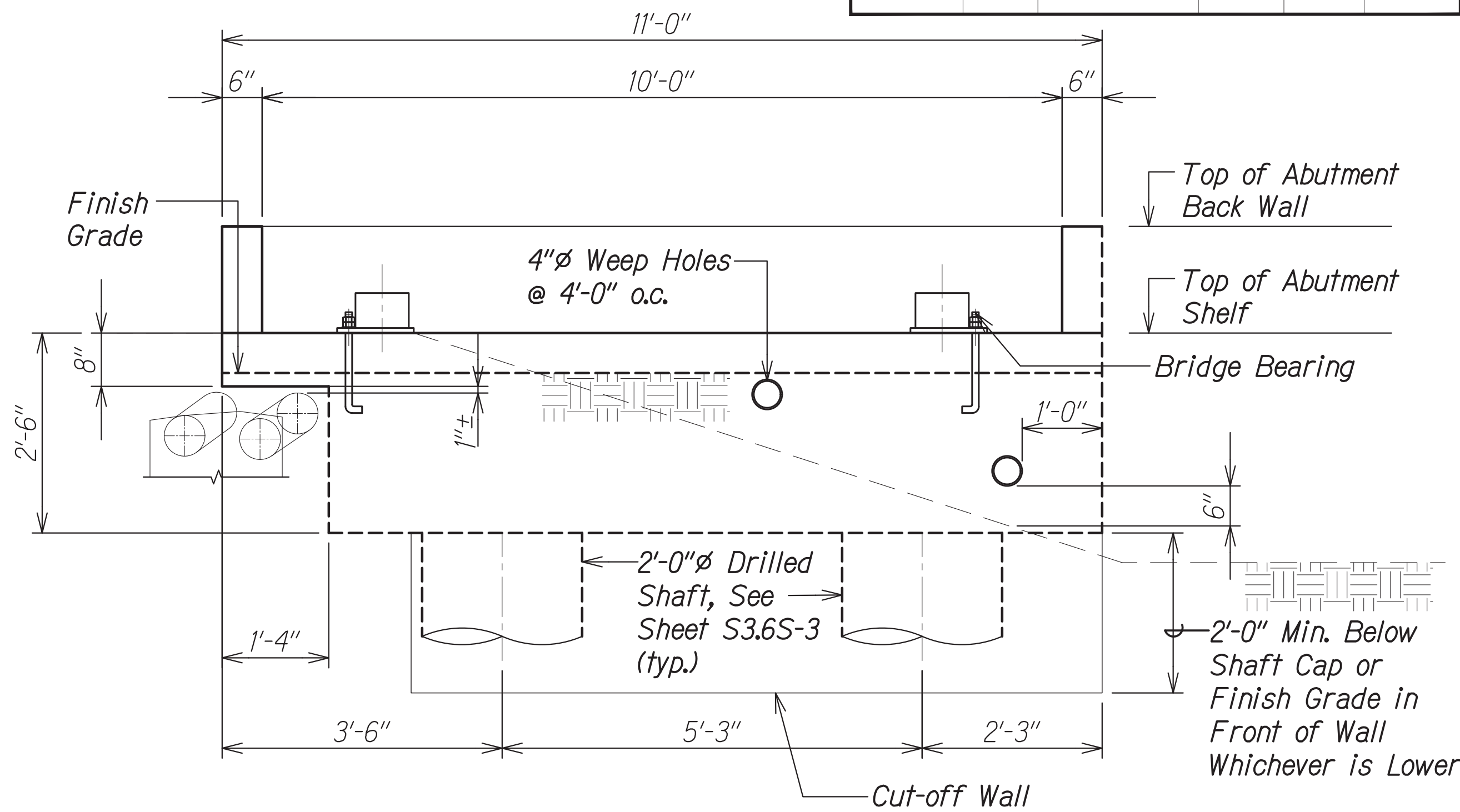
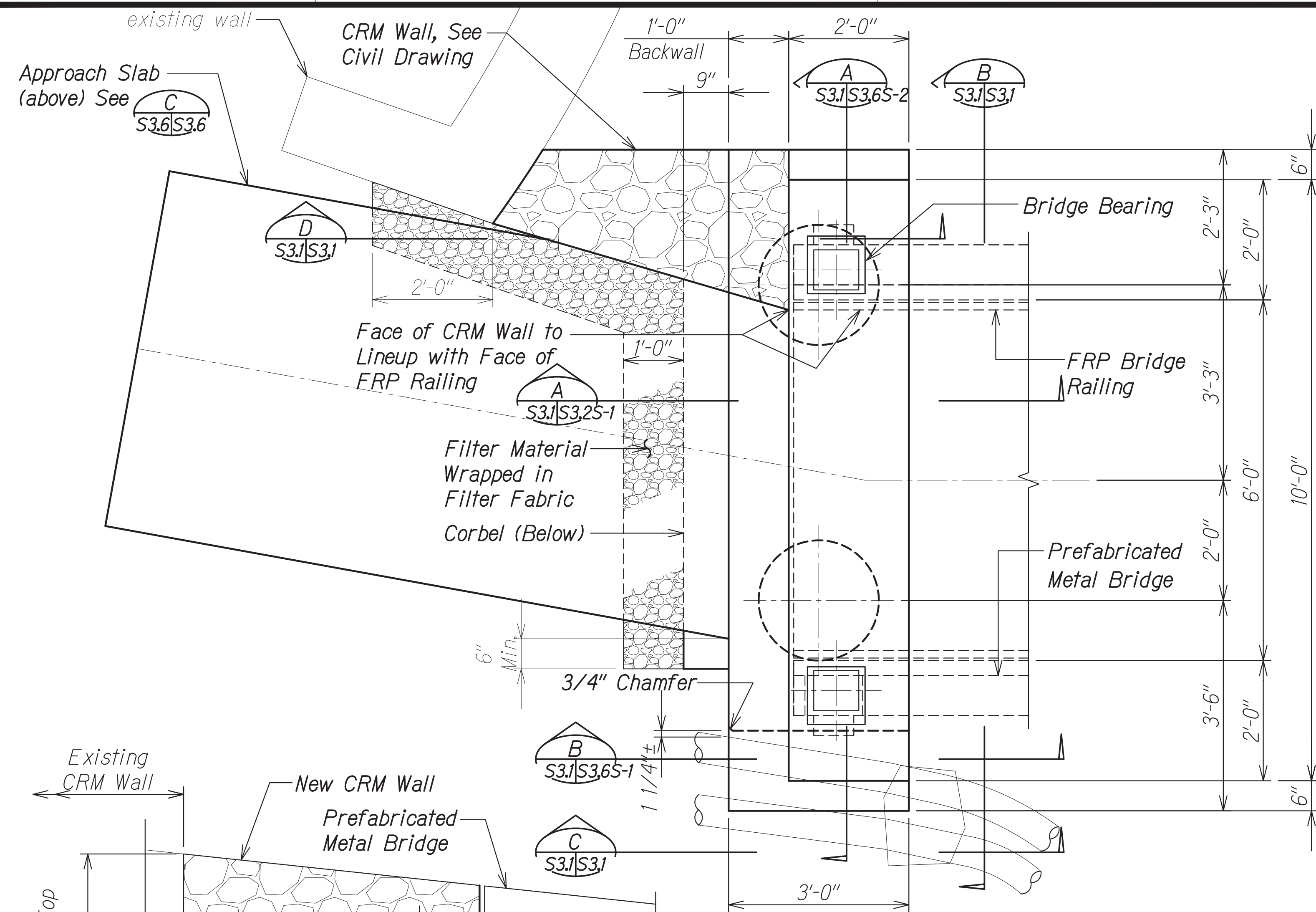
SYMBOLS AND ABBREVIATIONS

HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A-01-13

Scale: None
Date: April 24, 2017

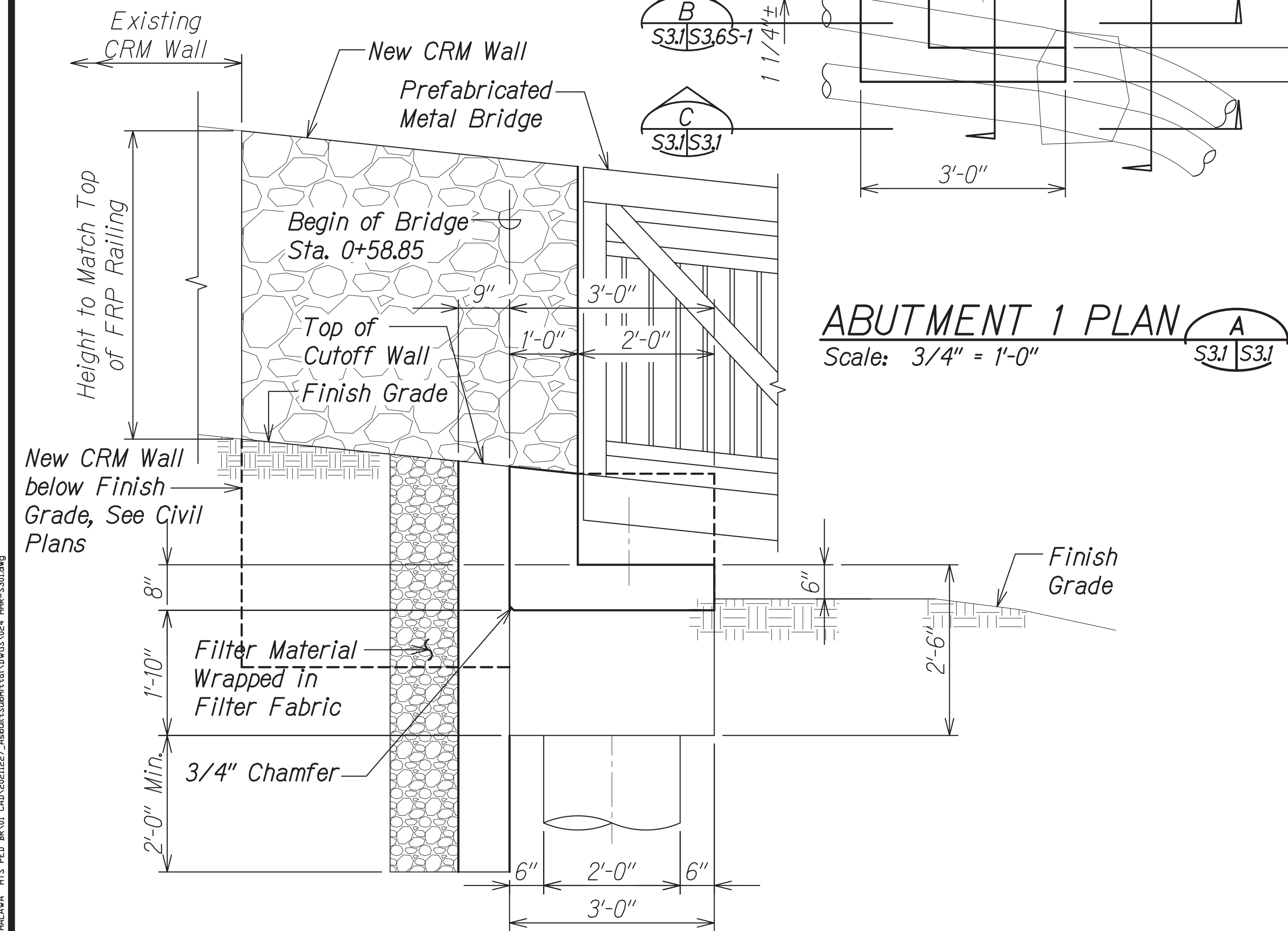
SHEET No. 80.3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	C.O. 24	36

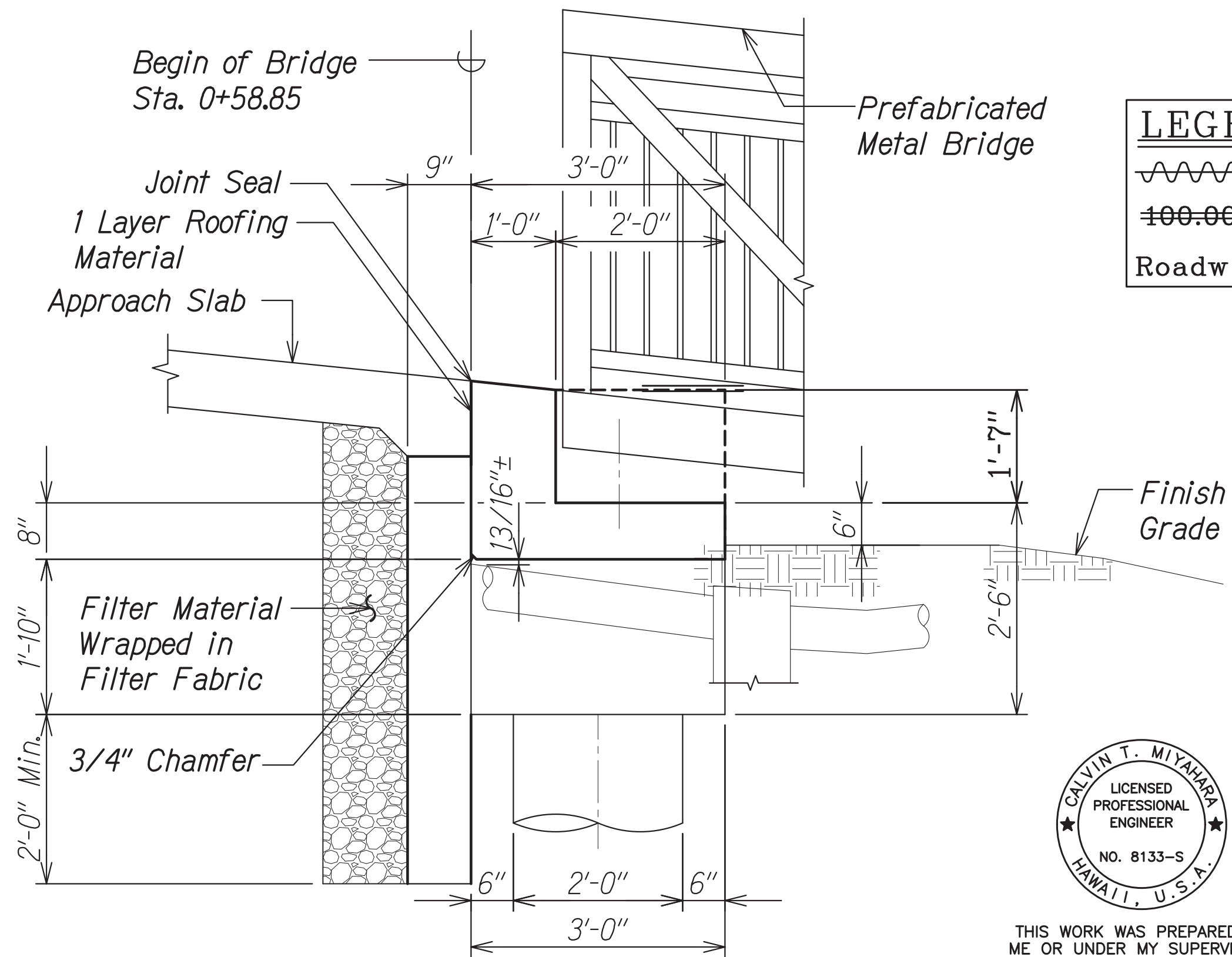


ABUTMENT 1 ELEVATION
Scale: 3/4" = 1'-0"

Note:
Top of abutment shelf elevation shall be adjusted to achieve bridge finish grade elevations.



ABUTMENT 1 PLAN
Scale: 3/4" = 1'-0"



ABUTMENT 1 SECTION
Scale: 3/4" = 1'-0"

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
8/28/19	Revised Abutment No. 1 and New Drilled Shafts
3/5/19	C.O. 3 - Revised Footing for Fiber Optic Line
1/14/19	C.O. RFI 10A - Revised Footing



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EXPIRATION DATE OF THE LICENSE: 4-30-18

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ABUTMENT NO. 1
PLAN AND ELEVATIONS
HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A-01-13
Scale: As Shown Date: April 24, 2017
SHEET No. **33.1** OF 6 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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The diagram illustrates the cross-section of a bridge deck with the following dimensions and components:

- Overall Width:** 12'-0"
- Deck Width:** 10'-0"
- Shoulder Width (each side):** 1'-0"
- Bridge Bearing:** Indicated by a line pointing to the top of the deck structure.
- Top of Abutment Back Wall:** Indicated by a line pointing to the top of the abutment structure.
- Finish Grade:** Indicated by a line pointing to the top of the deck structure.
- Top of Abutment Shelf:** Indicated by a line pointing to the bottom of the abutment structure.
- Minimum Height (2'-0" Min.):** Indicated by a vertical dimension line on the left side of the deck.
- Height (2'-0"):** Indicated by a vertical dimension line on the left side of the abutment structure.

Technical drawing of a bridge cross-section showing dimensions and components. The drawing includes a prefabricated metal bridge structure, a finish grade line, and an approach slab. Key dimensions and labels include:

- Dimensions:**
 - Horizontal dimensions: 2'-6", 1'-6", 1'-0", 4'-6", 2'-0", 2'-0", 6", 9", 9", 9", 1'-6", 2'-6", 6".
 - Vertical dimensions: 6", 2'-0" Min., 2'-0", 9", 9", 9", 6".
- Labels:**
 - Prefabricated Metal Bridge
 - Finish Grade
 - End of Bridge Sta. 1+38.89
 - 1 Layer Roofing Felt
 - Approach Slab

ABUTMENT 2 ELEVATION

Scale: 3/4" = 1'-0"

Dimensions:

- FRP Railing: See Sheet S4.1
- Top of Wing Wall
- End of Wing Wall
- Corner
- Finish Grade
- Top of Wing Wall Footing
- 3" Dia. Weephole @ 8'-0" oc
- Control Joint w/ 1 Layer Roofing Felt
- FRP Railing on Prefabricated Metal Bridge
- Top of Abutment Shelf
- Top of Abutment Footing
- 5/8" Dia. x 4'-0" GFRP Smooth Dowels @ 12" oc

Note:
Top of adjusted elevation

Engineer's Seal:
CALVIN T. MIYAKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.

Signature:
Calvin Miyakawa

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
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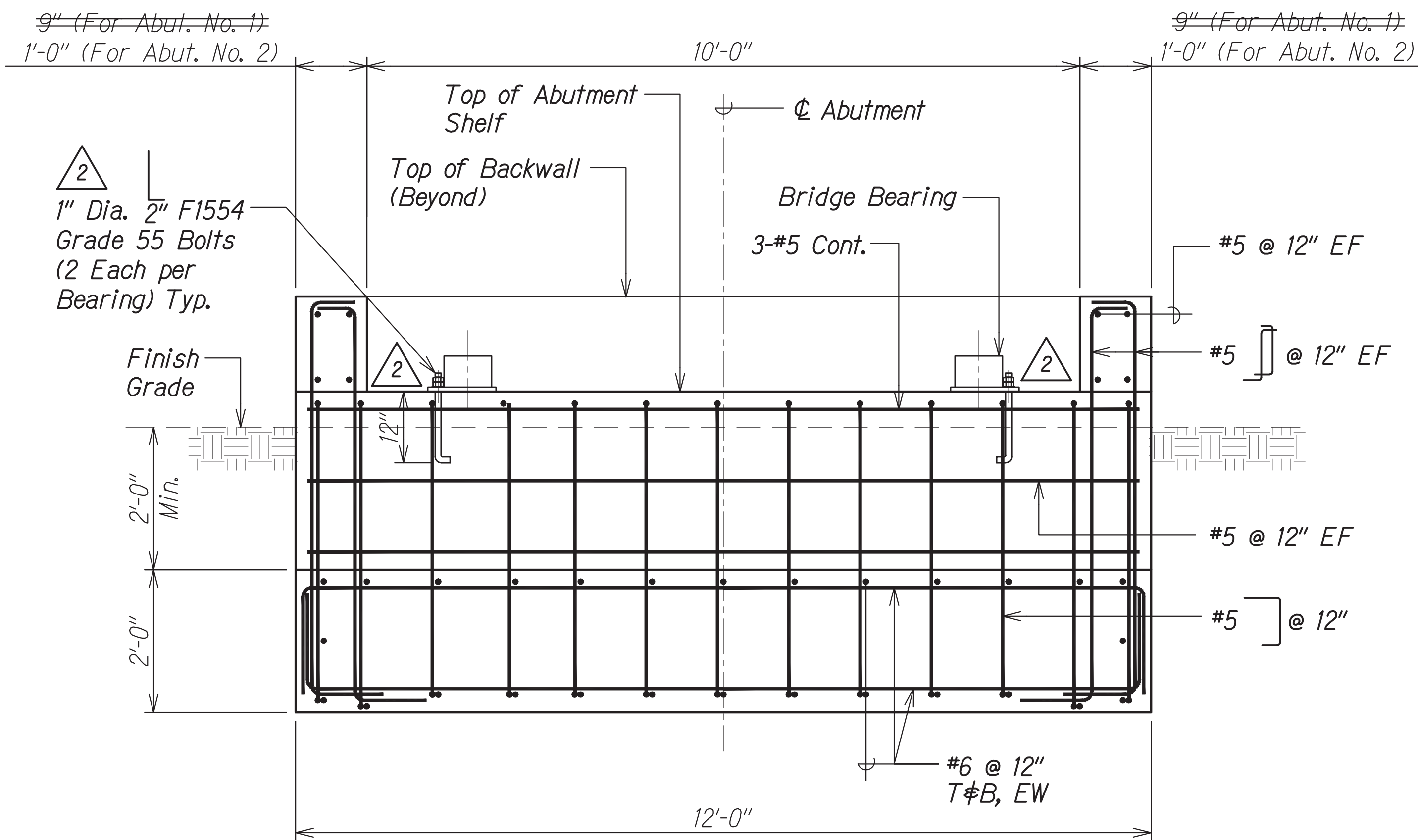
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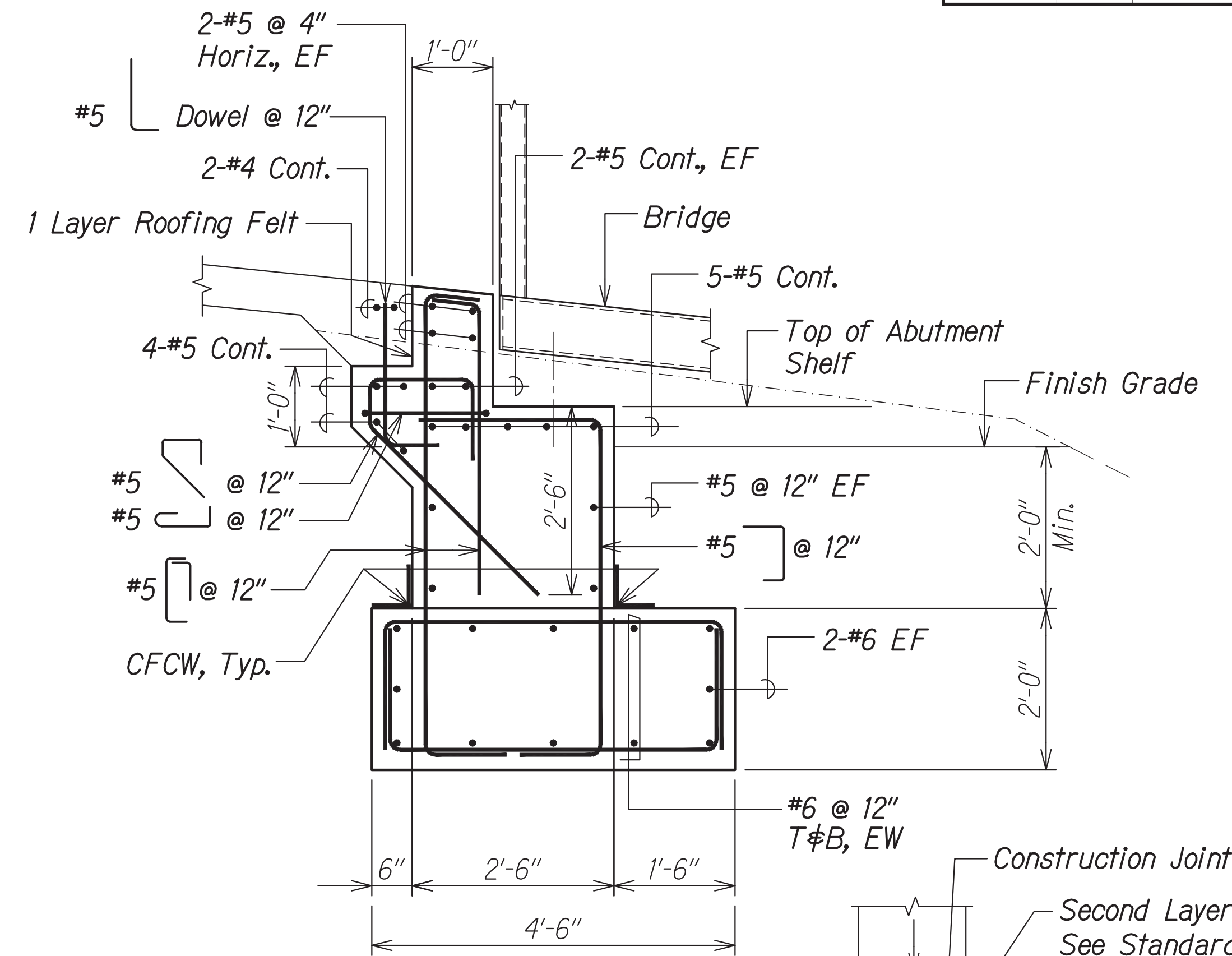
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SHEET No. **83.3** OF 6 SHEETS

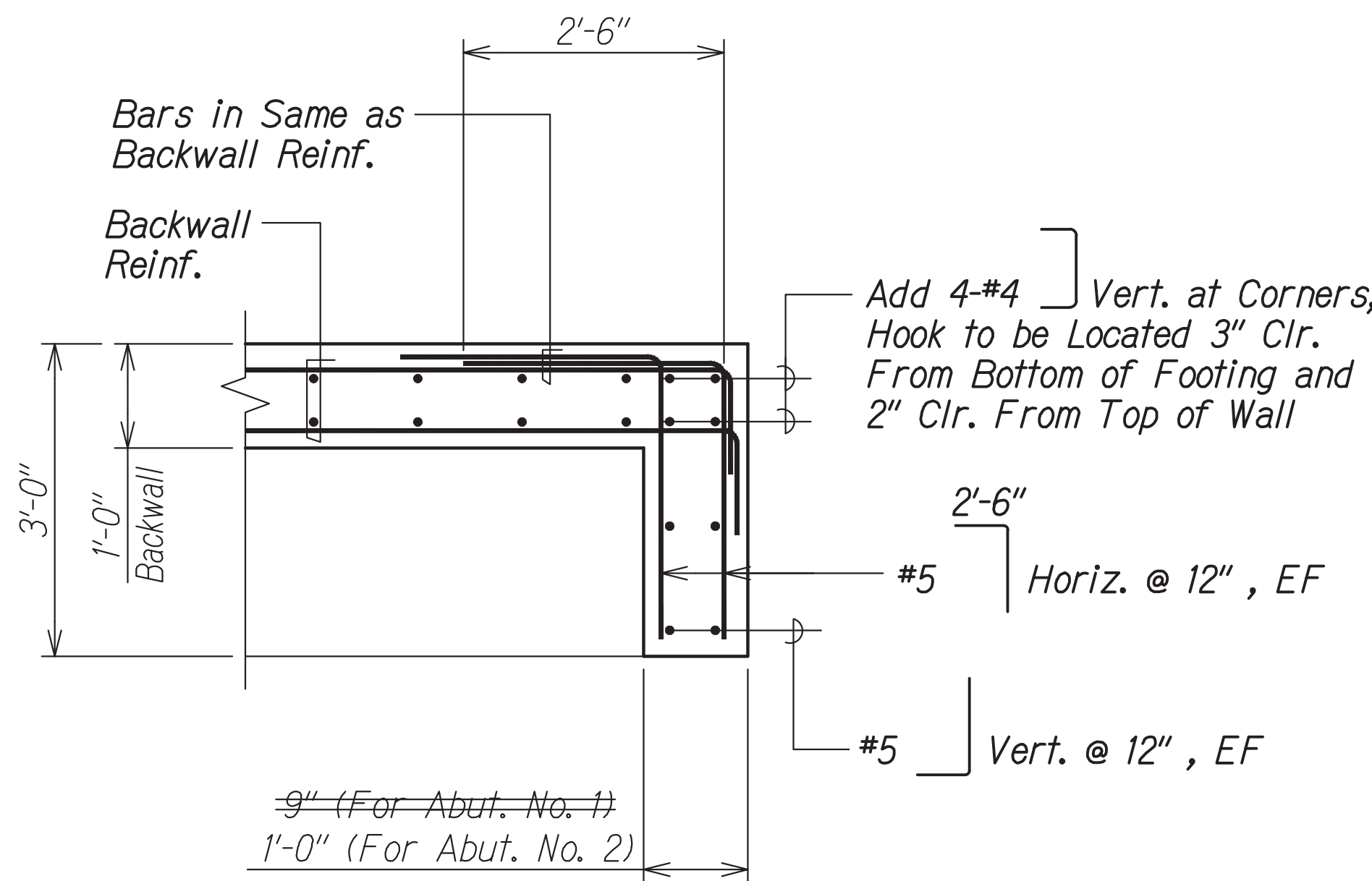
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	C.O. 27	36



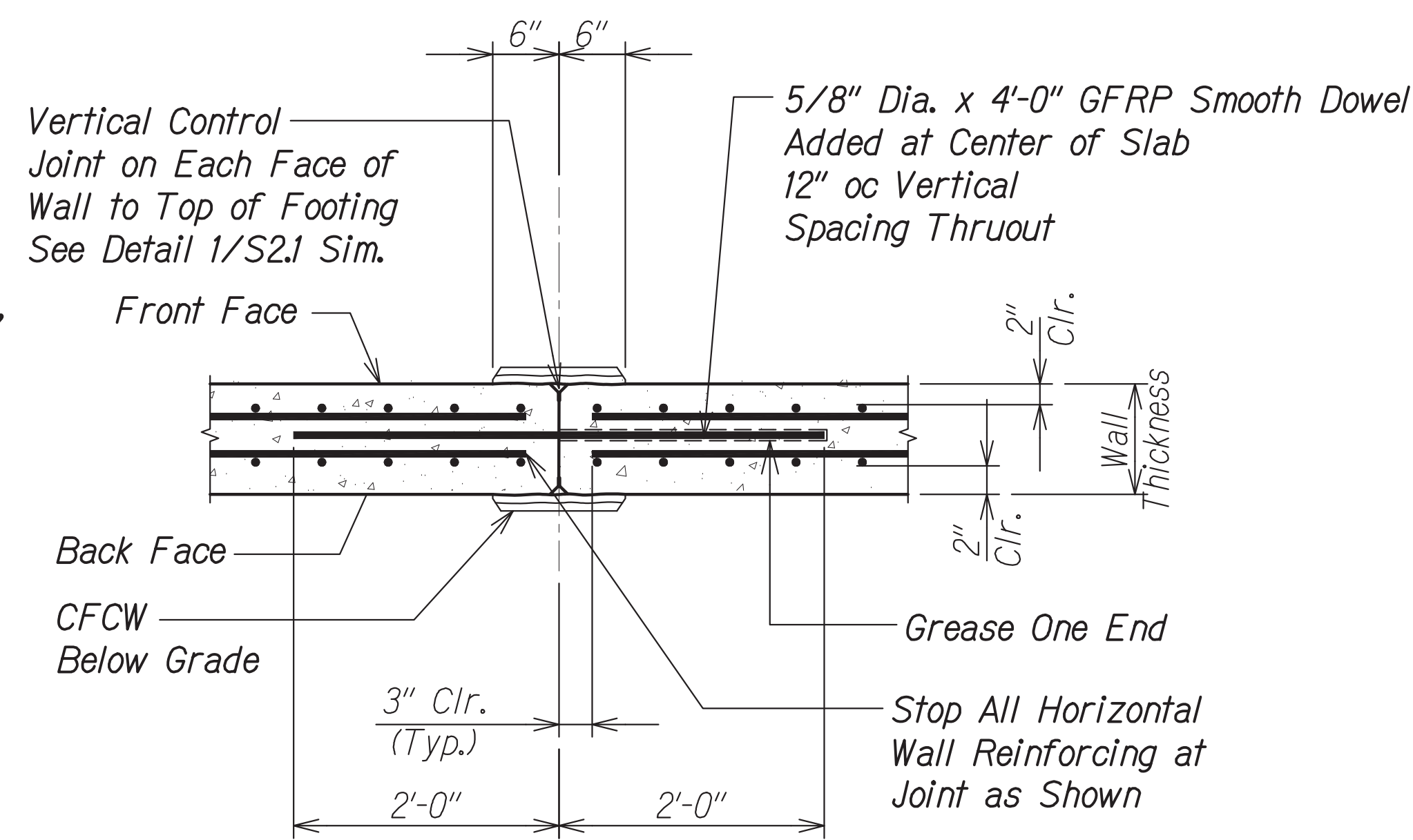
ABUTMENT SECTION A
Scale: 3/4" = 1'-0"



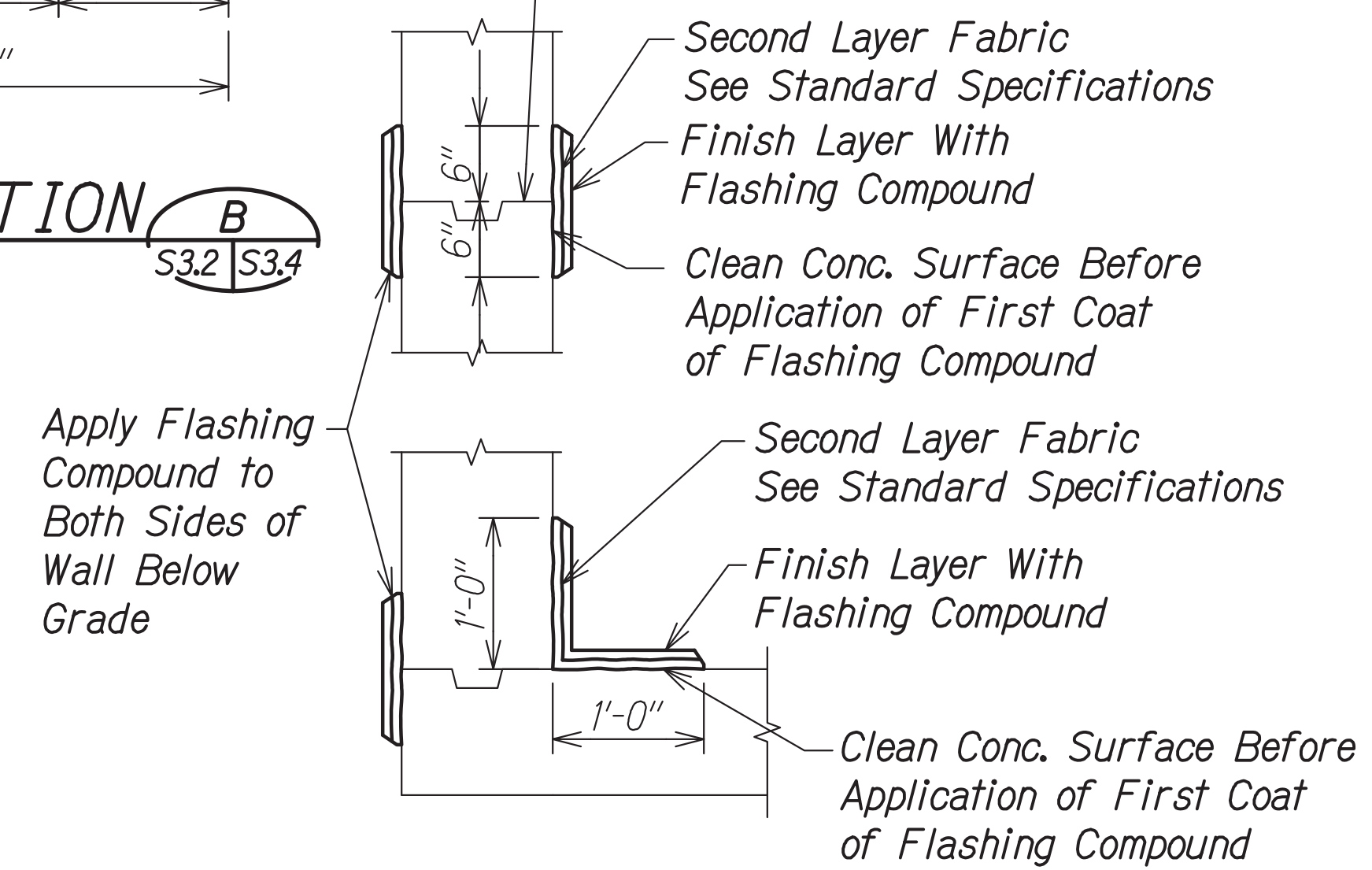
ABUTMENT SECTION B
Scale: 3/4" = 1'-0"



ABUTMENT SECTION C
Scale: 3/4" = 1'-0"



TYPICAL WALL VERTICAL CONTROL JOINT DETAIL
Scale: 1" = 1'-0"



TYPICAL CONTINUOUS FLASHING COMPOUND WATERPROOFING (CFCW)
Scale: 1" = 1'-0"

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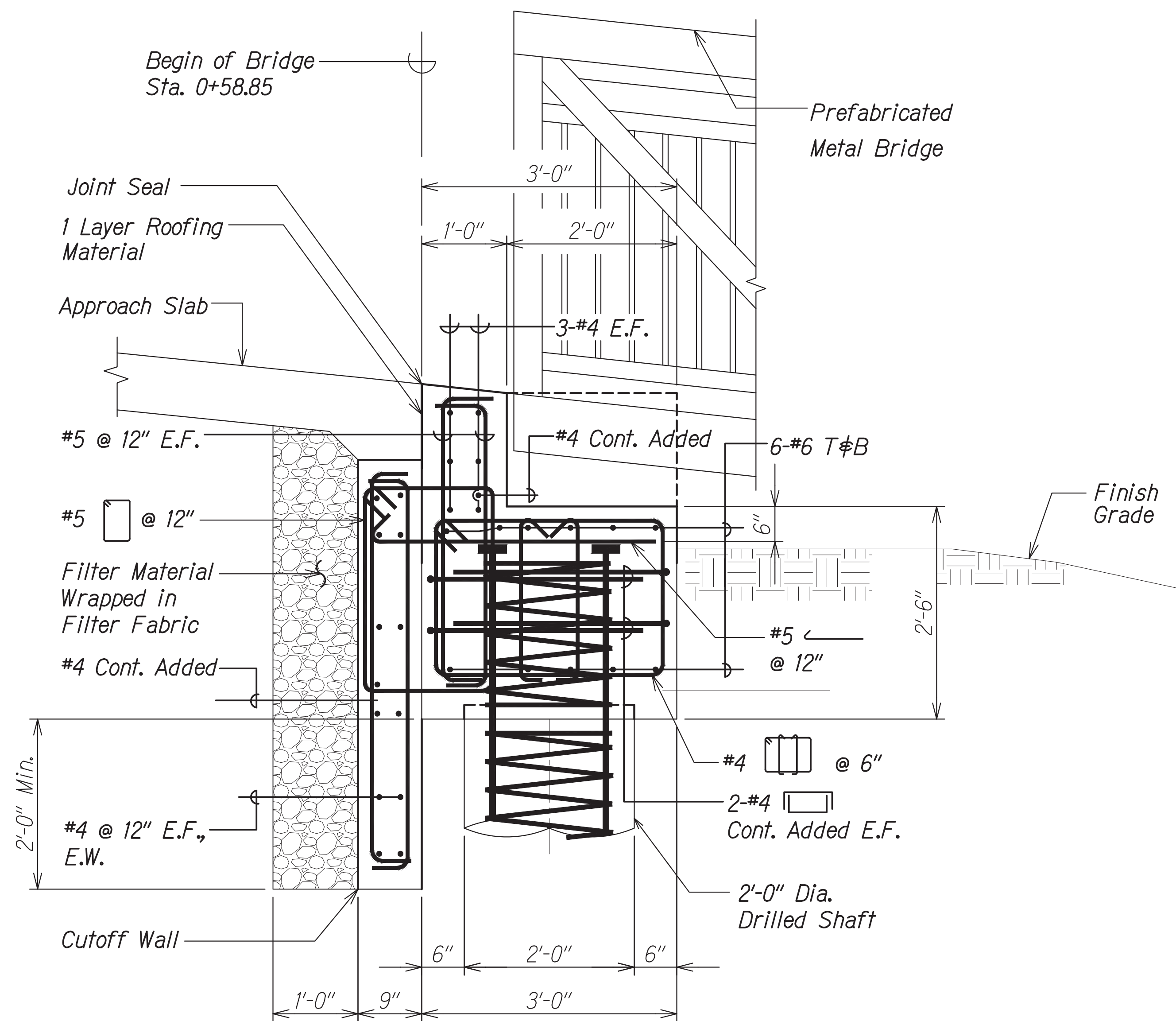
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3/5/19	C.O. 3 - Deleted Abut. No. 1 Callouts
3/20/18	2 C.O. - Added Bolts
DATE	REVISION

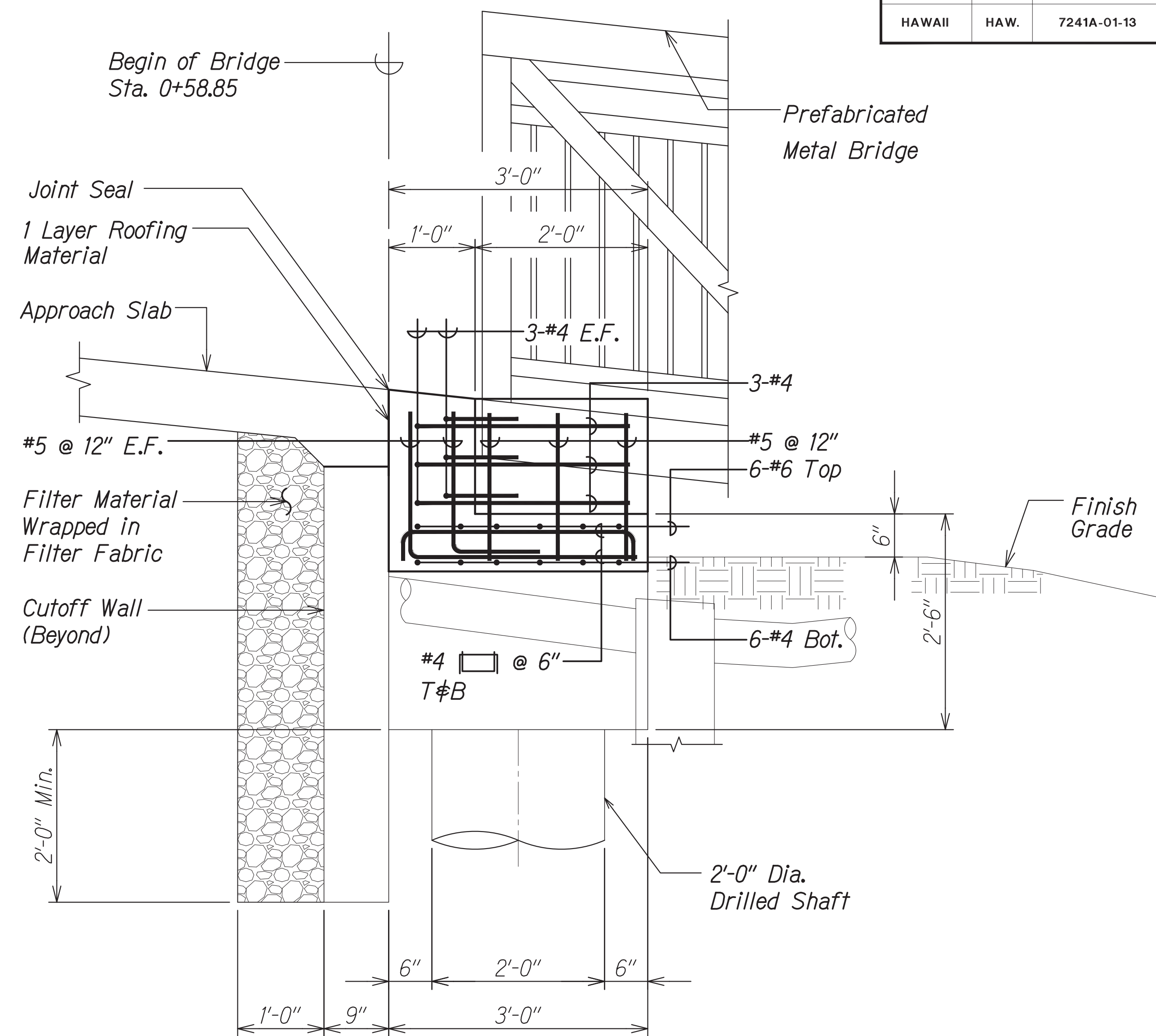
CALVIN T. MIYAHARA
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NO. 8133-S
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4-30-18
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STATE OF HAWAII
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HIGHWAYS DIVISION
ABUTMENT NO. 2
AND TYPICAL SECTIONS
HALAWA HEIGHTS ROAD
PEDESTRIAN BRIDGE
Proj. No. 7241A-01-13
Scale: As Shown Date: April 24, 2017
SHEET No. **S3.4** OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	CO 29S-1	36



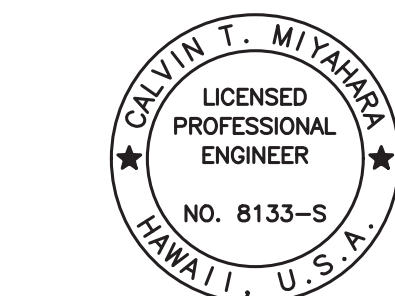
ABUTMENT 1 SECTION A
Scale: 1" = 1'-0"



ABUTMENT 1 SECTION B
Scale: 1" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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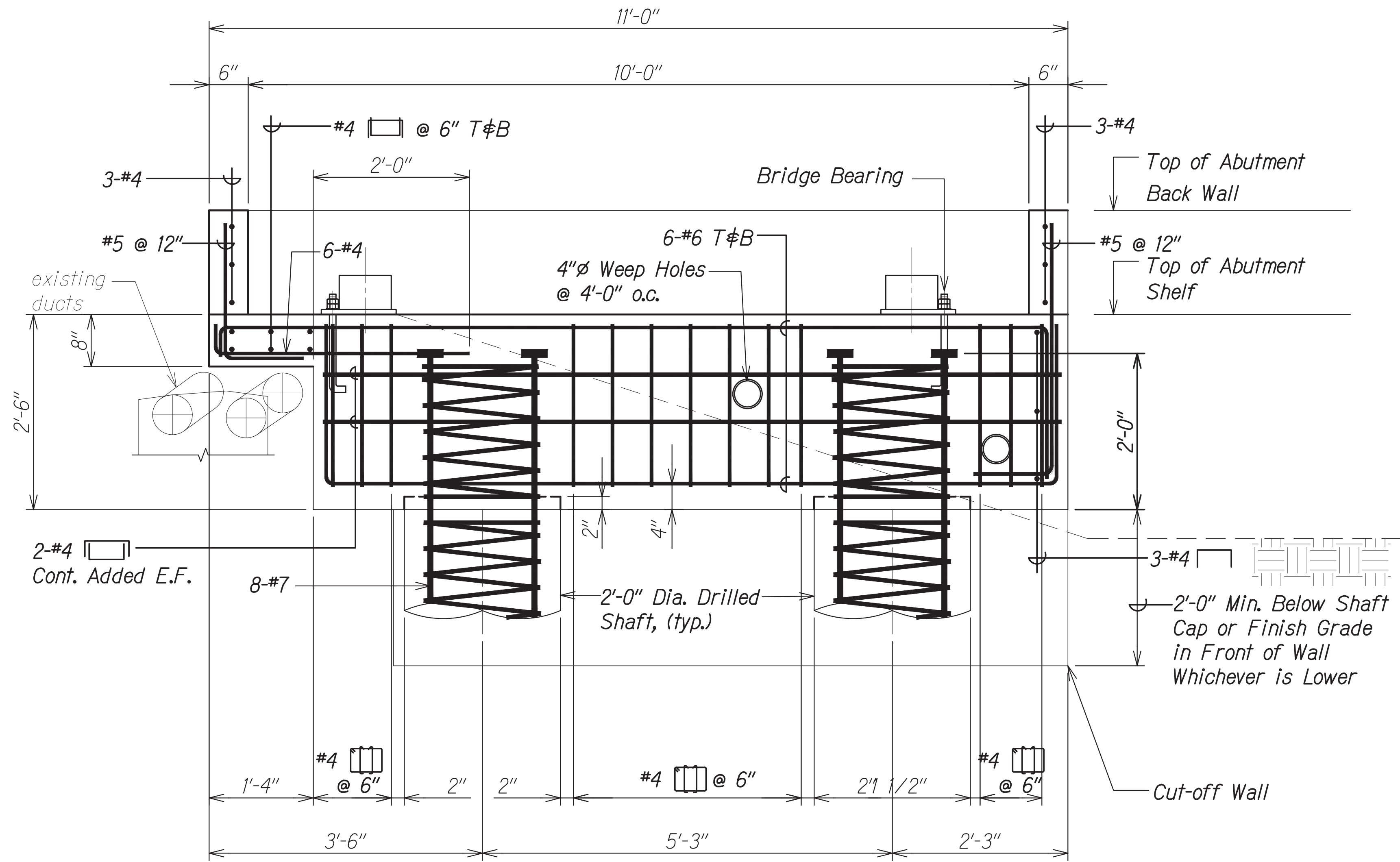


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8/28/19	New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ABUTMENT NO. 1 SECTIONS HALAWA HEIGHTS ROAD PEDESTRIAN BRIDGE Proj. No. 7241A-01-13 Scale: As Shown Date: April 24, 2017	
SHEET No. 33.6S-1 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	CO 29S-2	36



ABUTMENT 1 ELEVATION A
Scale: 1" = 1'-0"

Note:
Weep holes and reinforcing shall be adjusted to provide 2" clear from weep hole to reinforcing.

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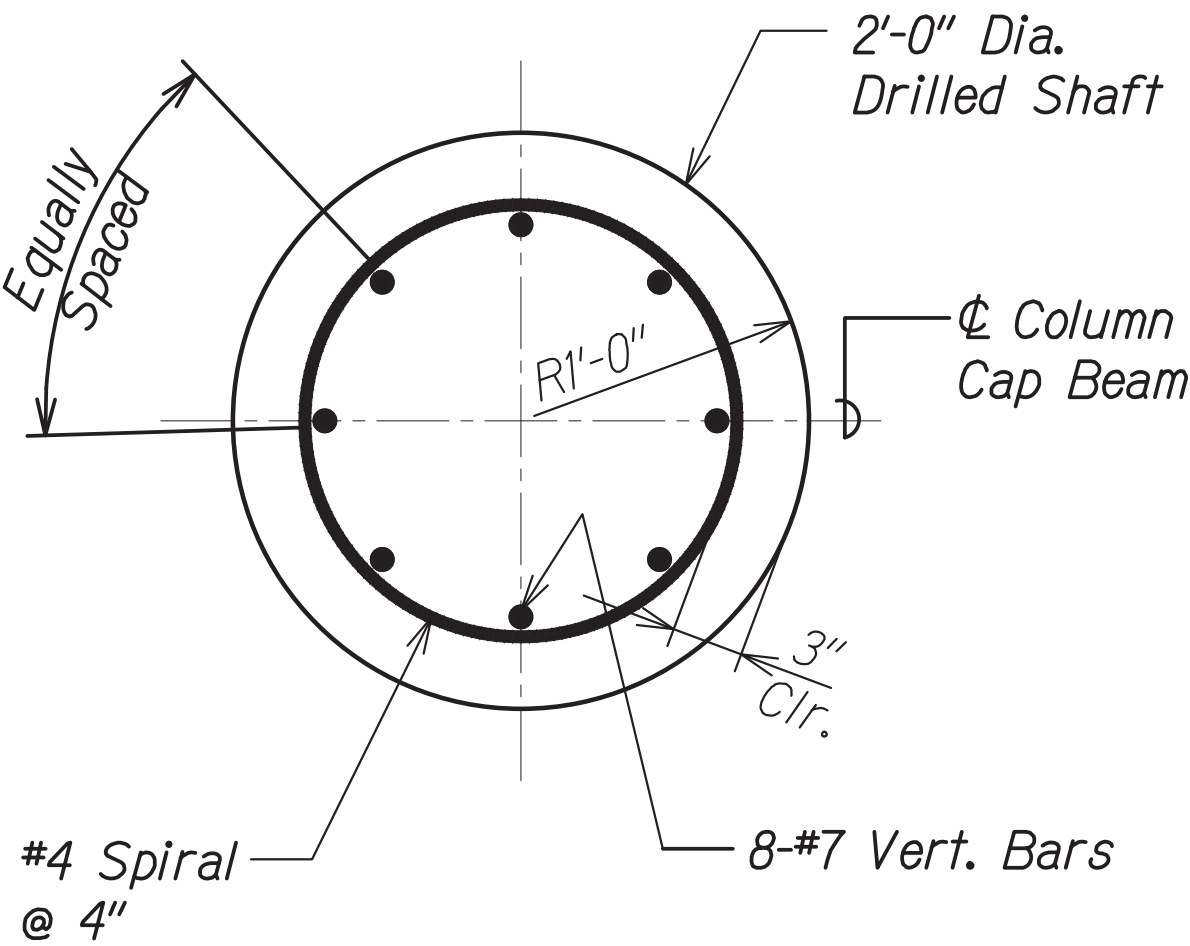
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DATE	REVISION
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ABUTMENT NO. 1 SECTIONS	
HALAWA HEIGHTS ROAD PEDESTRIAN BRIDGE Proj. No. 7241A-01-13	
Scale: As Shown	Date: April 24, 2017
SHEET No. S3.6S-2 OF 6 SHEETS	

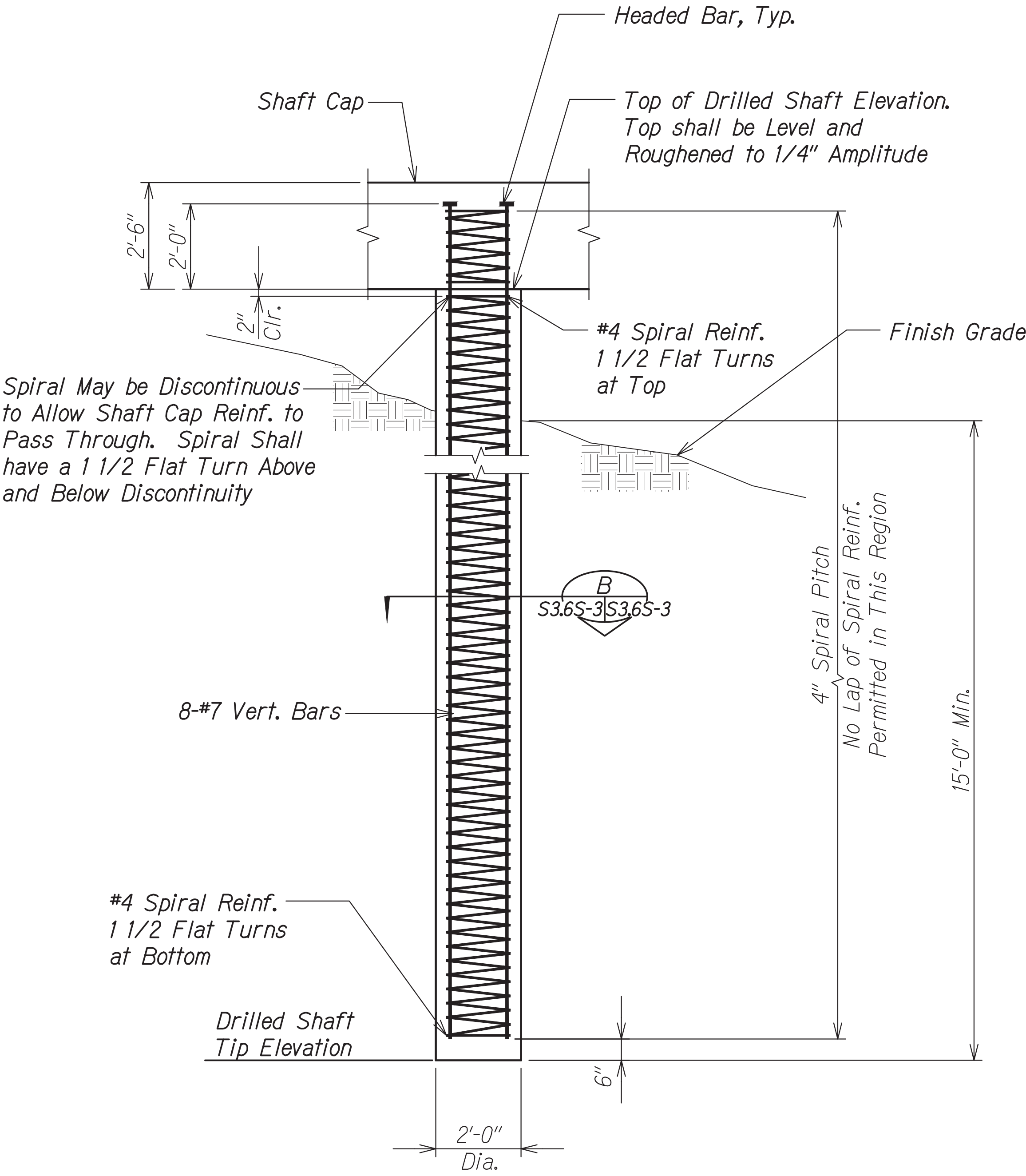
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7241A-01-13	2016	CO 29S-3	36

NOTES:

- Lap splice length for #6 spirals shall be 3'-6" min. with a 135° hook bend at each end.
- Each end of the spiral shall have 1 1/2 extra turns with a 135° hook around a vertical reinforcing bar.
- Concrete or other non-corrosive spacing devices shall be used to maintain the reinforcement cage in position within the shaft.



SECTION B
Scale: 1" = 1'-0" S3.6S-3 S3.6S-3



DRILLED SHAFT 1 AND 2 ELEVATION A
Scale: 1/2" = 1'-0" S3.6S-3 S3.6S-3

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRILLED SHAFT HALAWA HEIGHTS ROAD PEDESTRIAN BRIDGE Proj. No. 7241A-01-13 Scale: As Shown Date: April 24, 2017 SHEET No. S3.6S-3 OF 6 SHEETS	

