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DRAWN BY	
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QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	
NOTE BOOK	
No.	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INDEX TO STRUCTURAL DRAWINGS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

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ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

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STRUCTURAL GENERAL NOTES:

1. General Specifications:

   A. Hawaii Department of Transportation (HDOT) 2005 "Standard Specifications for Road and Bridge Construction", together with Special Provisions prepared for this project.

2. Design Specifications:

   A. American Association of State Highway and Transportation Officials (AASHTO) 2020 "LRFD Bridge Design Specifications", 9th Edition as amended by HDOT document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures".

   B. HDOT Document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures" and HDOT memorandum dated January 8, 2018 with subject title "Changes to Design Criteria for Bridges and Structures".

   C. AASHTO 2009 "LRFD Guide Specifications for the Design of Pedestrian Bridges", 2nd Edition including all subsequent interim revisions and editions.

3. Design Loads:

   A. Dead Load: A weight of 25 psf for future wearing surface from curb to curb has been provided for in the design.

   B. Utility Load: An allowance of 150 plf on each side of the bridge for utility loads has been provided for in the design.

   C. Live Load: AASHTO Pedestrian Loading = 90 PSF
      AASHTO Vehicular Loading = H10 Truck

   D. Seismic Loads:

PGA = 0.174 g	F_{PGA} = 1.2	As = 0.209 g
Ss = 0.398 g	Fa = 1.20	S_{DS} = 0.477 g
S_1 = 0.109 g	Fv = 1.691	S_{D1} = 0.185 g
Site Class = C	Seismic Zone = 2	

4. Concrete:

   A. All concrete strengths shall be as noted below:

Item No.	Structural Parts	Compressive Strength, f'c (28 Days)	Maximum Water/ Cementitious (W/C)	Maximum Cementitious Material Content (lbs./cy)	Included Admixtures (See Notes Below in This Section)
(1)	Drilled Shafts	5,000 psi	0.45	720	C
(2)	Drilled Shaft Cap, Pier, and Crash Barriers	7,000 psi	0.40	700	C, D
(3)	Abutments, Retaining Walls, Planter Walls, and Skeg Walls	6,000 psi	0.40	670	C, D, E
2 (4)	Foundation Slabs	5,000 psi	0.43	645	C, D, E
(5)	Precast Prestressed Planks	10,000 psi	0.35	752	C, D
(6)	Bridge Deck Topping, Edge Beams, Approach Slabs, Sleeper Slabs, End Beams, Corbels, and Pier Diaphragm	6,000 psi	0.40	670	C, D, F
(7)	Pedestrian Railings	5,000 psi	0.45	620	C, D, E
2 (8)	Stairs and Curb	5,000 psi	0.43	645	C, D, F
2 (9)	Walkway Slab (Portland Cement Conc. Sidewalk) and Impact Attenuator Foundation Slab	5,000 psi	0.43	645	D, F
(10)	Except as noted otherwise, all others	5,000 psi	0.45	620	C

   B. The use of calcium chloride in any concrete is prohibited.

   C. Amine carboxylate corrosion inhibiting water-based admixture such as Cortec MCI 2005 NS or approved equal shall be added at a dosage of 24 ounces per cubic yard of concrete.

   D. Shrinkage reducing admixture such as Masterlife SRA 35 or approved equal shall be added at a dosage of 128 ounces per cubic yard of concrete or as recommended by the manufacturer.

   E. Alkali resistant structural glass fiber such as CEMFIL, ANTI-CRAK HP67/36 or approved equal shall be added to the concrete mix. The dosage rate shall be 15 lbs. per cubic yard of concrete for CEMFIL or the equivalent amount of approved equal to achieve similar properties as the glass dosage. The fiber shall be added to the concrete as recommended by the manufacturer during the mixing process.

   2 F. A 1 1/2" long macro synthetic fiber such as Strux 90/40 or a 2 1/4" long macro synthetic fiber such as Forta-Ferro shall be added to the concrete mix. The dosage shall be 7.5 lbs. per cubic yard of concrete or the equivalent amount of approved equal to achieve similar properties.

   G. Contractor is not limited to only adding admixtures listed on these notes. Other admixtures may be added upon approval of the Engineer.

   H. If removal/stripping of formwork occurs within 7 days of concrete placement then concrete shall be cured. All exposed concrete shall be cured using Sinak Lithium Cure 1000 or approved equal at a coverage rate of 200 sq. ft. per gallon.

   I. Remove curing that may affect binding from all areas requiring future bonding unless a curing agent such as Sinak Lithium Cure 1000 or accepted equal that does not affect bond and provide equal or better curing is used.

   J. The Contractor has the option to design the concrete for all items to be pumpable and flowable. All concrete shall be designed for minimum segregation and separation.

   K. All concrete shall include at least one of the three methods stated in Section 601 of the Special Provisions, or approved equal, to reduce the embodied carbon footprint in concrete.

5. Anti-Graffiti Coating:

   A. All concrete surfaces, excluding the soffit of the bridge planks and walking surfaces of the walkway slab, bridge deck, and the stairs shall receive an anti-graffiti coating such as Protectosil Antigraffiti, or approved equal. Coating shall be applied in three coats at a coverage rate of 125 ft^2/gallon. Anti-graffiti coating shall be incidental to respective concrete work.

6. Lightweight Cellular Concrete Backfill:

   A. 28-day compressive strength shall be 90 pounds per square inch maximum.

   B. In place density shall be less than 45 pounds per cubic foot

   C. Refer to project specifications and drawings for location and limits of placement.

   D. Lightweight Cellular Concrete Backfill shall be placed in lifts not exceeding 2'-0".

2	9/10/21	Revised Notes
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S ★ HAWAII, U.S.A.

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STRUCTURAL GENERAL NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

SHEET No. S0.3 OF 6 SHEETS

ADD. 117

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\09-09-21 ADD2\MP-S0003 GENNOTES ADD1-2.DWG PLOT TIME: 09-09-21, 10:16 AM

STRUCTURAL GENERAL NOTES:

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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7. Materials:

A. Non-shrink grout shall be a pre-mixed product consisting of non-staining, non-metallic aggregate cement, water reducing and plasticizing agents capable of developing a minimum compressive strength of 4,000 psi in 3 days and 8,500 psi in 28 days. The non-shrink grout shall additionally contain at least 10 grams of a migrating amine carboxylate corrosion inhibiting admixture per 0.4 to 0.5 cubic feet of non-shrink grout.

B. Premolded joint filler shall be ASTM D1751 with a compressive strength of 100 psi at 50% deformation.

C. Stainless steel inserts cast into concrete, post-installed threaded rods, and fasteners shall conform to ASTM A269 or ASTM A276 Type 316 L/UNS designation S31603.

D. Stainless steel nuts shall conform to ASTM F594 Type 316 L/UNS designation S31603.

E. Stainless steel bolts shall conform to ASTM F593 Type 316 L/UNS designation S31603.

F. Bonding agent shall be a three-component, preproportioned, water based epoxy modified Portland cement bonding agent and anti-corrosion coating. 14-day bond strength shall exceed 2,400 psi in accordance with ASTM C882.

G. Foam below precast planks at pier shall be XPS Type X conforming to ASTM C578 with a density of 1.3 pcf and a compressive strength of 15 psi.

H. Geocomposite drain boards shall be 24" wide CD-60 series Chimney Drain manufactured by J Drain, or approved equal.

8. Reinforcement:

A. All reinforcing steel shall be ASTM A 615, Grade 60 unless otherwise noted.

B. Reinforcing steel shall be ASTM A 706, Type W, Grade 60 where welded connections are required.

C. Reinforcing steel shall be ASTM A1035 Type CS Grade 100 where noted on the plans.

D. Epoxy-coated reinforcing steel shall be ASTM A775 where noted on the plans

E. Reinforcing bars shall be placed and installed in accordance with the CRSI Manual of Standard Practice and CRSI Placing Reinforcing Bars, unless otherwise noted.

8. Reinforcement (Continued):

F. 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) Top of bridge deck, top of approach slab = 2 1/4"

(2) Railings, wingwalls, abutments, pier, end beams, drill shaft cap beam = 2", unless otherwise noted.

(3) Concrete cast against and permanently exposed to earth = 3"

(4) Drilled shafts = 4"

(5) Prestressed planks = 1 1/2", unless otherwise noted.

(6) All others unless otherwise noted = 2"

G. Minimum lap splice length for steel reinforcing shall be 40 bar diameters or 2'-0", whichever is greater, for #8 bars or smaller. Minimum lap splice length for #9 bars or larger shall be 50 bar diameters. Increase lap length by multiplying the minimum lap splice length by 1.3 for bars having more than 12" of fresh concrete below bars. Increase lap length by 1.25 for ASTM A1035 reinforcing. Lap splices for bundled bars shall consist of individual bar splices within a bundle that do not overlap. Entire bundles shall not be lap spliced.

H. Unless otherwise noted, reinforcing splices shall be staggered. Minimum distance between staggered lap splice shall be equal to the length required for the lap splice. Number of bars spliced at sections normal to axis of member shall not exceed 50 percent of the total main reinforcing in the member.

I. 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".

J. All dimensions relating to reinforcing bars are to centers of bars unless otherwise noted.

K. Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of intersections is less than 1 foot in each direction, in which case alternate intersections shall be tied.

L. Strands for prestressing shall be Grade 270, seven wire low relaxation type conforming to ASTM A416.

M. Dissimilar metals in contact shall be avoided where possible. If unavoidable, wrap contact surface with several layers of a dielectric tape such as Teflon or polypropylene. Any type of reinforcing steel or prestressing strand in contact with stainless steel shall be considered a dissimilar metal contact.

8. Reinforcement (Continued):

N. Formsaver taper threaded mechanical couplers shall be capable of developing both 125% of the reinforcing steel yield strength and 100% of the ultimate strength such as Lenton type SA coupler or approved equal.

9. Glass Fiber Reinforced Polymer Bar (ASTM D7957):

A. Glass Fiber Reinforced Polymer (GFRP) rebar shall conform to ASTM D7957.

B. Concrete cover for the GFRP bars shall be 1 1/2" unless otherwise noted.

C. Minimum lap splice lengths for the GFRP bars shall be 42 bar diameter unless otherwise noted.

D. All GFRP bars shall be securely tied in place. Tie wire shall be alloy 302 or 304 stainless steel or non-metallic.

E. The GFRP bars may be cut in the field with a masonry or diamond blade.

F. All work including materials and bends shall follow manufacturer's recommendations.

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NOTE BOOK	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

SHEET No. S0.4 OF 6 SHEETS

PLOT TIME: 08-04-21, 9:48 AM
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STRUCTURAL GENERAL NOTES:

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10. General Construction Notes:

A. The Contractor shall verify all site conditions and not rely upon these plans for existing elevations and azimuths, existing utility location, roads, roadway gutters, curbs and sidewalks, etc. Conditions may differ from those shown.

B. 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.

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. Except as otherwise noted, all vertical dimensions are measured plumb.

E. Construction joints may be relocated or additional ones added subject to the approval of the Engineer.

F. Unless otherwise noted, all exposed concrete edges shall be chamfered 3/4"x3/4".

G. The Contractor shall submit working drawings and calculations for the proposed bracing/shoring details needed to protect the existing structures when subjected to loading from equipment, drilled shaft rigs, cranes, vehicles and fresh concrete, etc. The Contractor shall also submit working drawings and calculations for the proposed launching system (if required). All drawings and calculations shall be stamped by a State of Hawaii licensed Structural Engineer and a licensed Civil Engineer specializing in geotechnical engineering. The above work, including working drawings and calculations, shall be incidental to any structure excavation. The drawings and calculations shall be found acceptable by the Engineer before any construction work is to proceed.

H. Construction joints between separate pours shall not be feather edged, unless otherwise noted. All joints shall be made square and vertical for the entire thickness of the new pour prior to pouring, except as directed by the Engineer.

I. Construction joints shall be roughened to 1/4" amplitude, cleaned, and SSD prior to placement of concrete.

J. For the installation of anchor bolts for lighting standards, the Contractor shall provide rigid templates to maintain the proper locations and shall protect such anchor bolts at all times during the construction period. Anchor bolts shall be installed with misalignments of less than 1:40 from vertical. After installation, firm contact shall exist between the anchor bolt nuts, washers, and base plate on any anchor bolt installed in a misaligned position.

10. General Construction Notes (Continued):

K. Top of abutment shelf and pier below precast planks shall be finished with a steel trowel to a smooth level surface to the elevation shown on the plans. Grind down high spots as needed to provide an even bearing surface to 1/16"+ tolerance. Apply slush grout layer immediately prior to setting of planks on abutment sides only.

L. The Contractor shall provide a template including details showing exact location of rebar so that no interference will occur between vertical drilled shaft reinforcement and horizontal reinforcement in the drilled shaft cap beam or abutments.

M. The Contractor shall be required to keep a copy of ACI MNL-15(20) manual in the field office at all times for reference during construction of the project.

N. Aggregate Base shall be compacted to a minimum 95% compaction as determined by AASHTO T-180 / ASTM D1557. (1)

O. During construction of the AMEPW bridge structure, the Contractor shall maintain a minimum 15'-6" clearance from the bridge structure (including any temporary falsework) to the roadway below.

11. Foundation Notes:

A. The Foundation Design is based upon recommendations contained in the geotechnical engineering report prepared by Geolabs, Inc. with subject title "Geotechnical Engineering Exploration, Ala Moana Boulevard, Elevated Pedestrian Walkway, Federal Aid Project No. BLD-092-1(029), Honolulu, Oahu, Hawaii" dated June 1, 2021.

B. Design Soil Parameters

(1) Static lateral earth pressure of lightweight soil mix (above groundwater)

(a) Active condition

= 27 pcf (level backfill)
= 44 pcf Horizontal (2H:1V sloping backfill)
= 22 pcf Vertical (2H:1V) sloping backfill

(b) At-rest condition

= 40 pcf (level backfill)
= 55 pcf Horizontal (2H:1V sloping backfill)
= 28 pcf Vertical (2H:1V sloping backfill)

11. Foundation Notes (Continued):

(2) Dynamic lateral earth pressure

(a) Active condition, level backfill = 3.7H psf (rectangular distribution)

(b) At-rest condition, level backfill = 8.1H psf (rectangular distribution)

*where H = Height of Wall in feet

DATE	REVISION
8/30/21 (1)	Revised Note

STATE OF HAWAII
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STRUCTURAL GENERAL NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

SHEET No. S0.5 OF 6 SHEETS

ADD. 119

ORIGINAL PLANS | NOTE BOOK | No. | DATE | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGN BY | QUANTITIES BY | CHECKED BY

DRAWING NAME: Z:\OD DNGNGA\25-012-ALA MOANA PED BR-HA\01 CAD\08-30-21 ADD\AMP-S0003 GENNOTES ADD1.DWG PLOT TIME: 08-30-21, 11:15 AM)

SYMBOLS AND ABBREVIATIONS

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HAWAII	HAW.	BLD-092-1(029)	2021	120	295

∉	And	Demol.	Demolition	GFRP	Glass Fiber Reinforced Polymer Rebar	Opn'g	Opening				
@	At	Det.	Detail			O/S	Offset				
Ø	Diameter	DI	Drain Inlet, Ductile Iron	Gr.	Grade	OHWM	Ordinary High Water Mark	Stirr.	Stirrup		
≥	Greater Than or Equal to	Dia.	Diameter	Grd.	Ground			Stl.	Steel		
≤	Less Than or Equal to	Diaph.	Diaphragm	GRP	Grouted Rubble Pavement	PB	Pull Box	Str.	Straight		
#	Number	Dim.	Dimension	GRS	Geosynthetic Reinforced Soil	PL	Plate	Struct.	Structure		
		Dist.	Distance			PCCP	Portland Cement Concrete Pavement	SY	Square Yard		
AB	Anchor Bolt	Dn.	Down	(H)	Hinge			Symm.	Symmetrical		
Abut.	Abutment	DO	Ditto	HDPE	High Density Polyethylene	PC	Point of Curvature				
Abbr.	Abbreviation	DS	Drilled Shaft	HDOT	State of Hawaii Department of Transportation	PCF	Pounds per Cubic Foot	T	Top		
AC	Asphaltic Concrete	Dwg., Dwgs.	Drawing, Drawings			P(e)	Effective Prestress Force After All Losses	T⊄B	Top and Bottom		
Add.	Additional	Dwls.	Dowels	HECO	Hawaiian Electric Company			Tan.	Tangent		
Alt.	Alternate			Horiz., H	Horizontal	Perf.	Perforated	TCE	Top of Column (and Bent Cap Soffit) Elevation		
AMEPW	Ala Moana Elevated Pedestrian Walkway	e	Existing	Ht.	Height	PI	Point of Intersection of Tangents	Temp.	Temporary		
Approx.	Approximate	E	East	HS	High strength			Term.	Terminal		
Az.	Azimuth	EA, Ea., ea.	Each			PIVC	Point of Intersection of Vertical Curve	TFE	Top of Footing Elevation		
		EF	Each Face	IB	Inbound			Thk.	Thick		
Bal.	Balance	EFH	Each Face Horizontal	ID	Inside Diameter	PLF, plf	Pounds per Linear Foot	TOD	Top of Deck		
℄	Baseline	EFV	Each Face Vertical	IF	Inside Face	PPM	Parts Per Million	TOP	Top of Pier		
Bet.	Between	EJ	Expansion Joint	In.	Inch	PRC	Point of Reverse Curvature	Tot.	Total		
BF	Both Faces	El., Elev.	Elevation	Int.	Interior	PVC	Polyvinyl Chloride	Transv.	Transverse		
BFE	Bottom of Footing Elevation	Elec.	Electrical	Inv.	Invert	Prestr.	Prestressed	TS	Structural Tubing		
Bk.	Back	Emb.	Embankment			P/S	Prestressed Strands	TSS	Tendon For Girder in Simply Supported Condition		
Blt.	Bolt	EMH	Electrical Manhole	Jt.	Joint	PSF, psf	Pounds per Square Foot				
Bm.	Beam	EPE	Existing Edge of Pavement			PSI, psi	Pounds per Square Inch				
BOF	Bottom of Footing	EPS	Expanded Polystyrene	K	Kips			Typ.	Typical		
Bot., Bott., B	Bottom	Eq.	Equal	KF	Kip Foot	PT	Point of Tangency				
Br.	Bridge	ES	Edge of Shoulder	KLF	Kips Per Linear Foot	Pt., Pts.	Point, Points	Undergrd.	Underground		
Brg., Brgs.	Bearing, Bearings	Est.	Estimated	KSF	Kips Per Square Foot	R, Rad.	Radius				
BVC	Beginning of Vertical Curve	EVC	End of Vertical Curve	KSI, ksi	Kips Per Square Inch	Rebar	Reinforcing Bar	Var.	Varies		
BW	Both Ways	EW	Each Way	L	Length	Ref.	Reference	VC	Vertical Curve		
		Exc.	Excavation	lb., lbs., LBS.	Pound, Pounds	Reinf.	Reinforced, Reinforcing, Reinforcement	VESLMC	Very Early Strength Latex Modified Concrete		
Cant.	Cantilever	Excl.	Excluding	LF, Lin. Ft.	Linear Feet/Foot						
CBW	Concrete Barrier Wall	Exist., Ex.	Existing	Longit.	Longitudinal	Req'd.	Required	Vert., V	Vertical		
cc	Center to Center	Exp., (E)	Expansion	LS	Lump Sum	Ret.	Retaining				
CF	Cubic Feet	Ext.	Exterior	LTP	Load Transfer Platform	RF	Rear Face	W	West		
CFCW	Continuous Flashing Compound Waterproofing	(F)	Fixed	Ltg. Std.	Lighting Standard	ROW	Right of Way	w/	With		
						Rdwy.	Roadway	W/C	Water/Cementitious		
CG	Center of Gravity	FA	Force account	M	Modified			WP	Work Point, Working Point		
CIP	Cast Iron Pipe, Cast in Place	FB	Flat Bar	Max.	Maximum	S	South	WS	Water Surface		
CJ, Cntl. Jt.	Control Joint	FC	Compression Stresses	Mech.	Mechanical	SBD	Special Bridge Deck Mix	WW	Wingwall		
℄	Center line	f'c	Specified Compressive Strength of Concrete at 28 days	MH	Manhole	SE	Super Elevation	WWF	Welded Wire Fabric		
Cl.	Class			Min.	Minimum	Sect.	Section				
Clr.	Clearance	f'ci	Specified Compressive Strength of Concrete at Time of Initial Prestress	Misc.	Miscellaneous	SF, sq. ft.	Square Feet	XPS	Extruded Polystyrene		
CLSM	Controlled Low Strength Material			MPH	Miles Per Hour	Sht.	Sheet				
				MSL	Mean Sea Level	Sim.	Similar	Yr.	Year		
CMU	Concrete Masonry Unit	FF	Far Face, Front Face			Sl.	Slope				
CO	Clean Out	Fig.	Figure	N	North	Spcs., Spg.	Spaces, Spacing				
Col.	Column	Fin. Gr.	Finish Grade	NF	Near Face	Spec.	Specification				
Conc.	Concrete	FRP	Fiberglass Reinforced Polymer	NIC	Not in Contract	Sprd.	Spread				
Conn.	Connection	FT	Tensile Stresses	No.	Number	SRW	Segmental Retaining Wall				
Const.	Construction	Ft.	Feet, Foot	NTS	Not to Scale						
Cont.	Continuous	Ftg.	Footing			SSD	Saturated Surface Dry				
CSL	Crosshole Sonic Logging			OB	Outbound						
CRM	Cement Rubble Masonry	G, Gir.	Girder	oc, o.c.	On Center	SS	Stainless Steel				
CY, Cu. Yd.	Cubic Yard	Ga.	Gage, Gauge	OD	Outside Diameter	Std.	Standard				
		Galv.	Galvanized	OG	Outside Girder, Outbound Girder	Sta.	Station				
Dbl.	Double	GDI	Grated Drain Inlet			Stiff.	Stiffener				

DRAWING NAME: Z:\OD ONGOING\OD 28 PROJECTS\28-012-ALA MOANA FED BR-HAW\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0606 SYMB-ABBRV.DWG PLOT TIME: 08-04-21, 9:48 AM

ORIGINAL PLAN	NOTE BOOK	No.	DATE	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGN BY	QUANTITIES BY	CHECKED BY

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STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER (NO. 17097-S) HAWAII, U.S.A.

4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

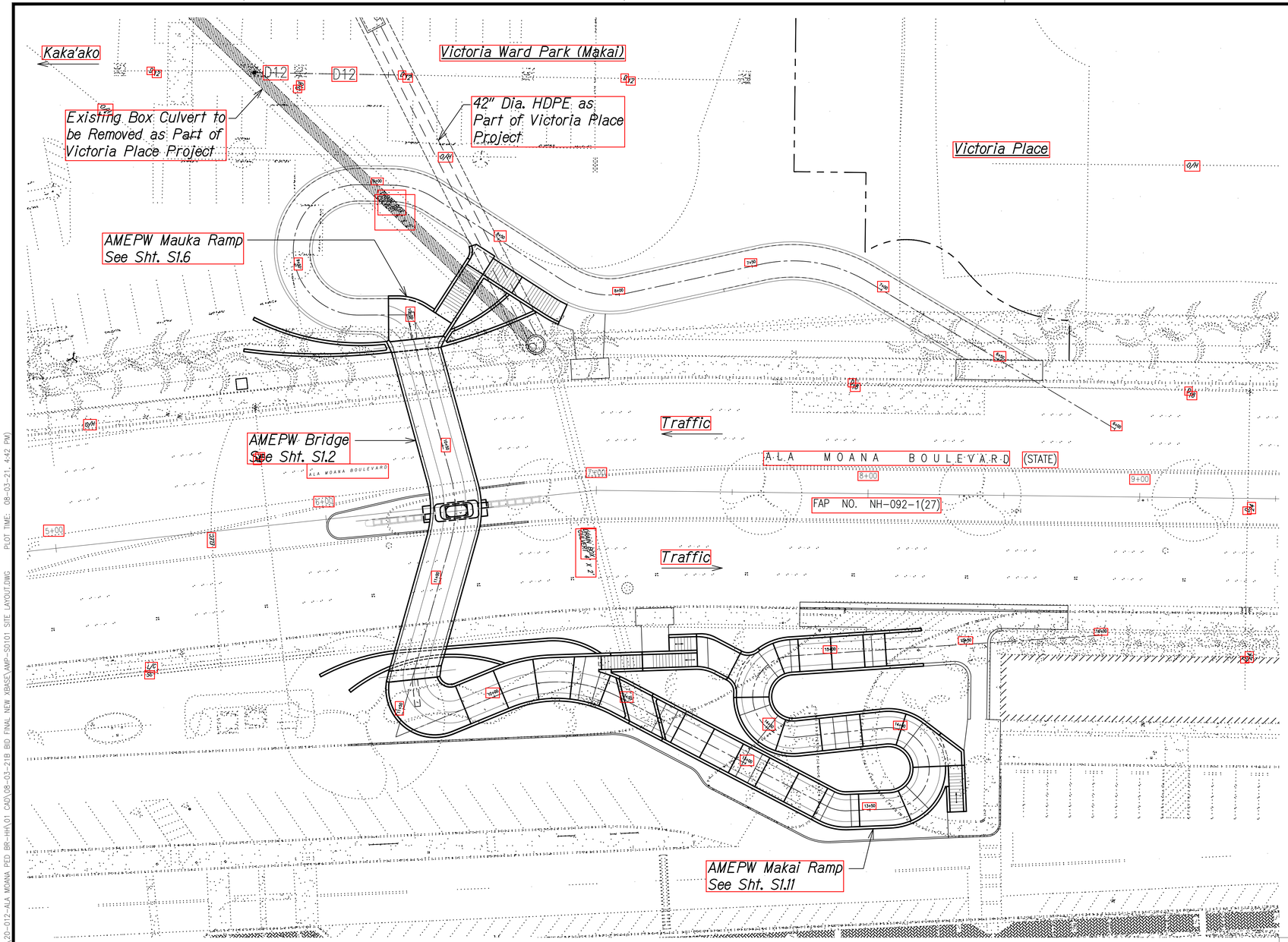
SYMBOLS AND ABBREVIATIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: None Date: July 2021

SHEET No. S0.6 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	121	295



WALKWAY LAYOUT PLAN

Scale: 1" = 20'-0"

A S1.1 | S1.1

DATE	SURVEY PLOTTED BY	ORIGINAL PLAN
	DRAWN BY	
	TRACED BY	NOTE BOOK
	DESIGNED BY	
	QUANTITIES BY	No.
	CHECKED BY	

DRAWING NAME: Z:\OD ONGONGO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HA\01 CAD\08-03-21B BID FINAL NEW KBAS\L\MP-S0101 SITE LAYOUT.DWG PLOT TIME: 08-03-21, 1:42 PM)

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

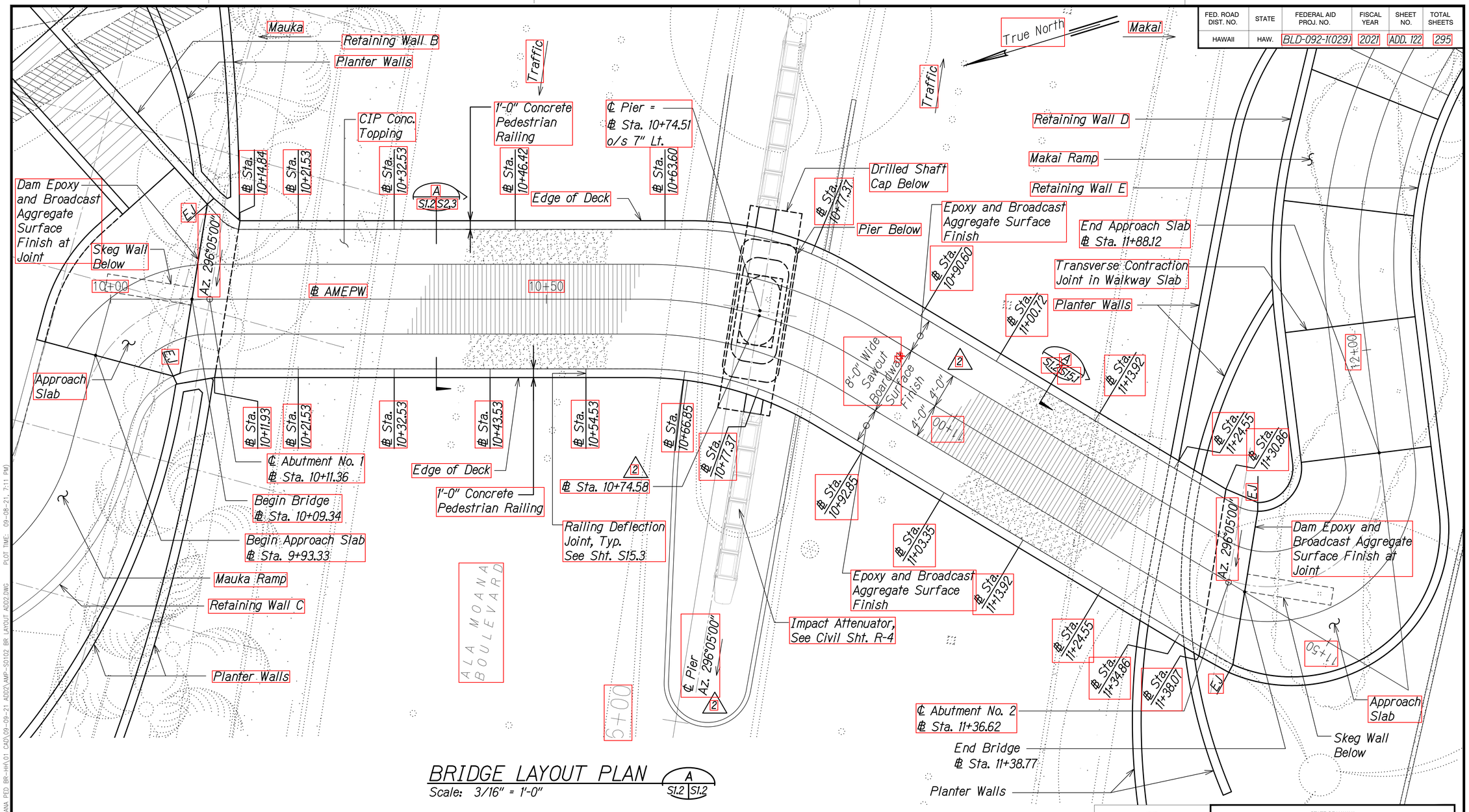
WALKWAY LAYOUT PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.1 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 122	295



BRIDGE LAYOUT PLAN

A S1.2 | S1.2

Scale: 3/16" = 1'-0"

Legend:

8'-0" Wide Sawcut Boardwalk Surface Finish. See 1/S17.6 for Detail

Epoxy and Broadcast Aggregate Surface Finish. See Special Provisions Section 680.

Notes:

1. All concrete walkway surfaces and stairs shall receive an initial medium broom finish.
2. Sawcut Boardwalk surface finish shall be considered incidental to Pay Item 634.1000.

2	9/10/21	Revised Callouts and Added Dimensions
	DATE	REVISION

ISSUE DATE	SURVEY PLOTTED BY	ORIGINAL PLAN
	DRAWN BY	NOTE BOOK
	TRACED BY	No.
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD ENGINEERING\20-012-ALA MOANA PED BR-HAWD\CAD\09-09-21 ADD2\AMP-S0102 BR LAYOUT ADD2.DWG PLOT TIME: 09-08-21, 7:11 PM

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE LAYOUT PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.2 OF 19 SHEETS

ADD. 122

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 123	295

Mauka

Traffic

Makai

True North

Foundation Slab
See Sheet S1.8

3'-0" Dia. Drilled
Shaft, See Note 2

Edge of Deck
Above

LT

Skeg Wall

℄ Pier =
℄ Sta. 10+74.51
o/s 7" Lt.

Drilled Shaft Cap

4'-0" Dia. Drilled Shaft,
See Notes 2 and 4

Pier

End GRS Backfill
℄ Sta. 11+88.12

Az. 296°05'00"

10+00

℄ AMEPW

10+50

2 ℄ Sta. 10+74.58

℄ Abutment No. 1
℄ Sta. 10+11.36

Begin Bridge
℄ Sta. 10+09.34

3'-0" Dia. Drilled
Shaft, See Note 2

Edge of Deck
Above

3'-0" Dia. Drilled
Shaft, See Note 2

Approximate Location of
Existing Foundation
Elements, See Note 3

Begin GRS Backfill
℄ Sta. 9+93.33

4'-0" Dia. Drilled
Shaft, See Notes 2
and 4

11+00

End Bridge
℄ Sta. 11+38.77

2 ℄ Abutment No. 2
℄ Sta. 11+36.62

3'-0" Dia. Drilled
Shaft, See Note 2

Foundation Slab
See Sheet S1.13

12+00

Skeg Wall

Az. 296°05'00"

℄ Pier
Az. 296°05'00"

ALA MOANA BOULEVARD

12+00

Notes:

1. Location of load test shaft is approximate. For additional requirements, see Special Provisions 511.
2. For drilled shaft details, see sheet S9.1 to S9.4.
3. The Contractor shall be aware of the presence of existing underground piles, caps, and grade beams in the vicinity of Abutment No. 1. Locations of the elements shown are approximate based on as-built drawings for "The Ward Warehouse, 1050 Ala Moana Blvd., Honolulu, Hawaii" dated April 1973, prepared for Victoria Ward Limited (owner) and are for reference only.
4. The Contractor shall be aware of the presence of concrete obstructions buried in the vicinity of the new Pier. Refer to Geotechnical Engineering Report for additional information. This shall be taken into consideration for project bidding.
5. Jet grout column locations and Load Transfer Platform not shown for clarity.

Legend:

(#) Drilled Shaft Number

(LT) Load Test Shaft

BRIDGE FOUNDATION PLAN

A S1.3 | S1.3

Scale: 3/16" = 1'-0"

	DATE	REVISION
2	9/10/21	Revised Callouts

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

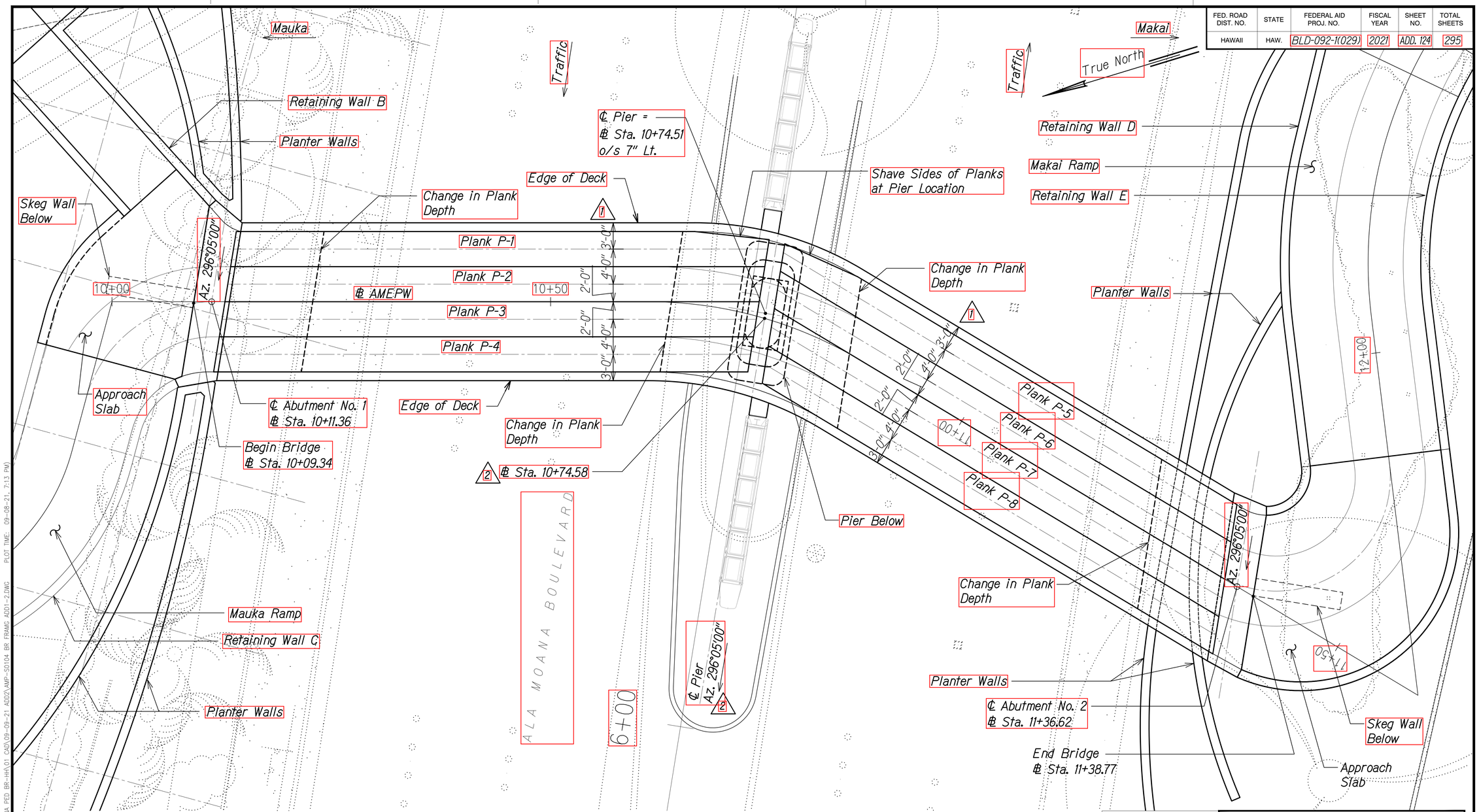
SHEET No. S1.3 OF 19 SHEETS

ADD. 123

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD\AMP-S9103 BR FDN ADD.DWG PLOT TIME: 09-08-21, 7:14 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 124	295



DATE	ISSUE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

DRAWING NAME: Z:\OD ENGINEERING\09-012-ALA MOANA PED BR-HAWD CAD\09-09-21 ADD2\AMP-S1104 BR FRAMG ADD1-2.DWG PLOT TIME: 09-08-21, 7:13 PM

BRIDGE FRAMING PLAN

A S1.4 | S1.4

Scale: 3/16" = 1'-0"

Notes:

1. See S4 series for prestressed concrete plank details.
2. Azimuth for Planks P-1 thru P-4 = 16° 54' 19.4"
   Azimuth for Planks P-5 thru P-8 = 47° 54' 19.4"

	DATE	REVISION
2	9/10/21	Added Note and Revised Callouts
1	8/30/21	Added Dimensions

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE DECK FRAMING PLAN

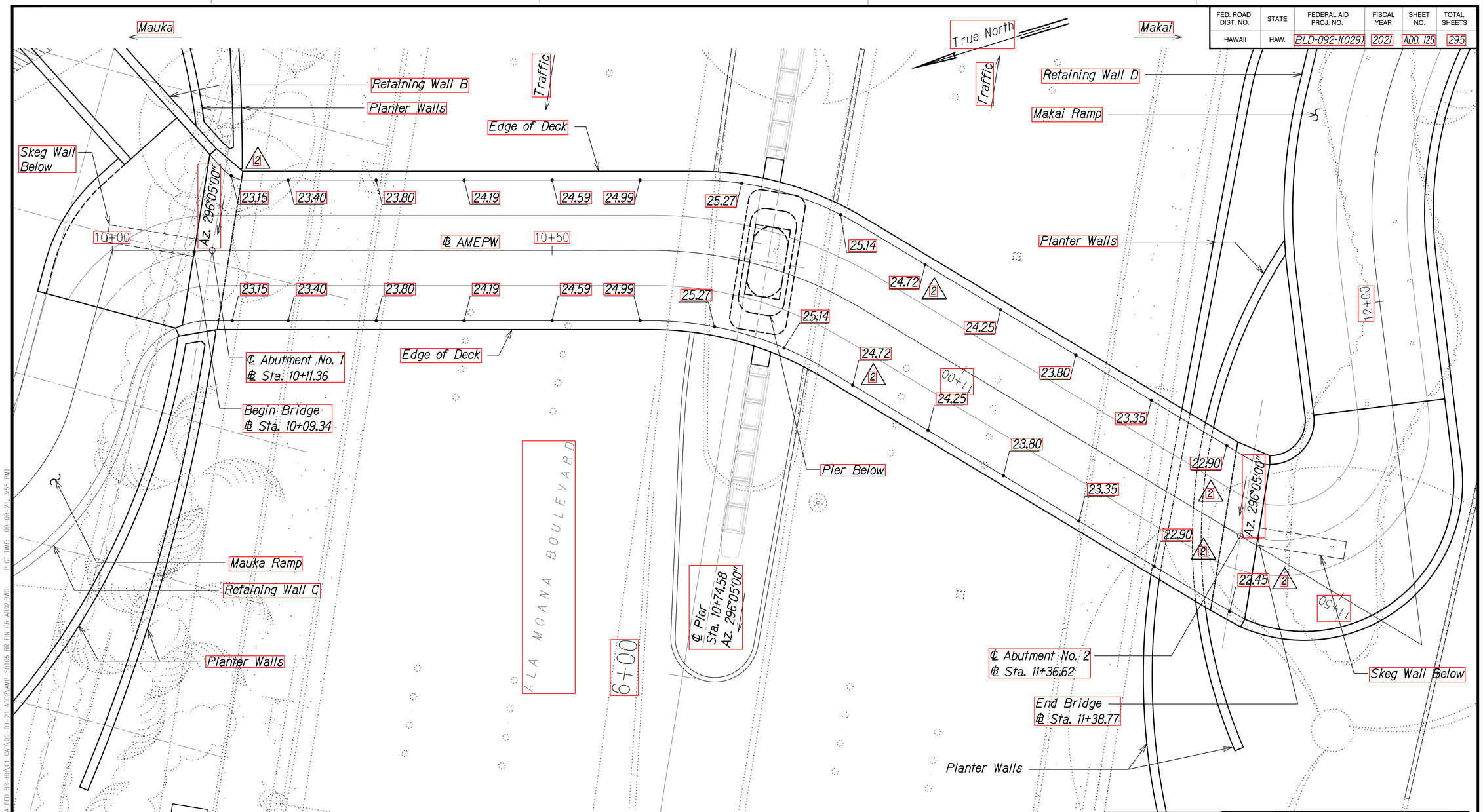
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.4 OF 19 SHEETS

ADD. 124

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 125	295



SURVEY PLOTTED BY
DRAWN BY
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DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DATE

DRAWING NAME: Z:\OD ENGINCV\20-012-ALA MOANA PED BR-HAV01 CAD\09-09-21 ADD2\AMP-S0105 BR FIN GR ADD2.DWG PLOT TIME: 09-09-21, 3:55 PM)

2 Note:

See Civil Sheets CE-3 through CE-5 for on bridge finish grade spot elevations.

BRIDGE FINISH GRADE PLAN

Scale: 3/16" = 1'-0"

A S1.5 | S1.5

	DATE	REVISION
2	9/10/21	Revised & Deleted Elev. Callouts and Added Note

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
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HIGHWAYS DIVISION

BRIDGE FINISH GRADE PLAN

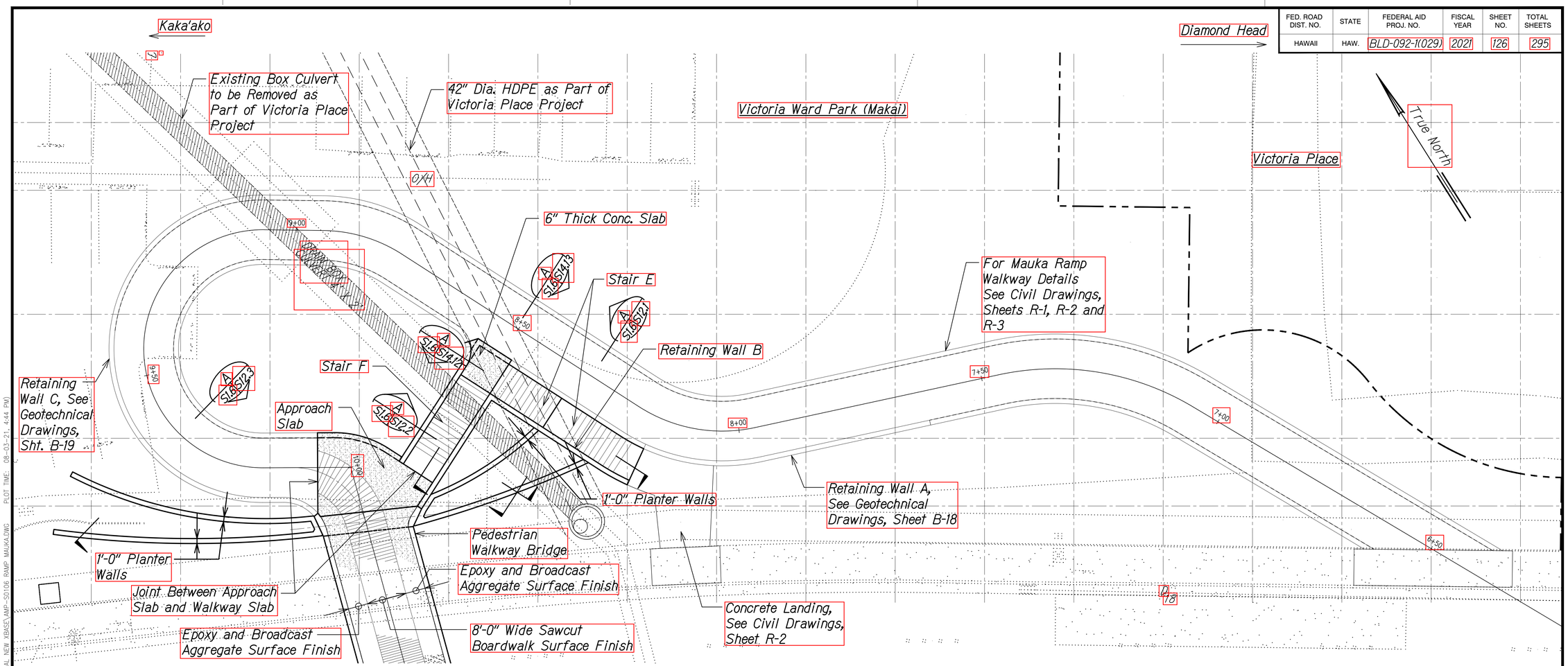
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.5 OF 19 SHEETS

ADD. 125

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	126	295



Legend:

- 8'-0" Wide Sawcut Broadcast Aggregate Surface Finish. See 1/S17.6 for Detail
- Epoxy and Broadcast Aggregate Surface Finish, See Special Provisions Section 680
- Structure to be Demolished and Removed as part of Victoria Place Project

MAUKA RAMP LAYOUT PLAN

Scale: 1" = 10'-0"

A S1.6 S1.6

Notes:

1. All concrete walkway surfaces and stairs shall receive an initial medium broom finish.
2. Sawcut Boardwalk surface finish shall be considered incidental to Pay Item 634.1000.

DATE

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DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\00 ONGOING\00 CG PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0106 RAMP MAUKA.DWG
PLOT TIME: 08-03-21, 4:44 PM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

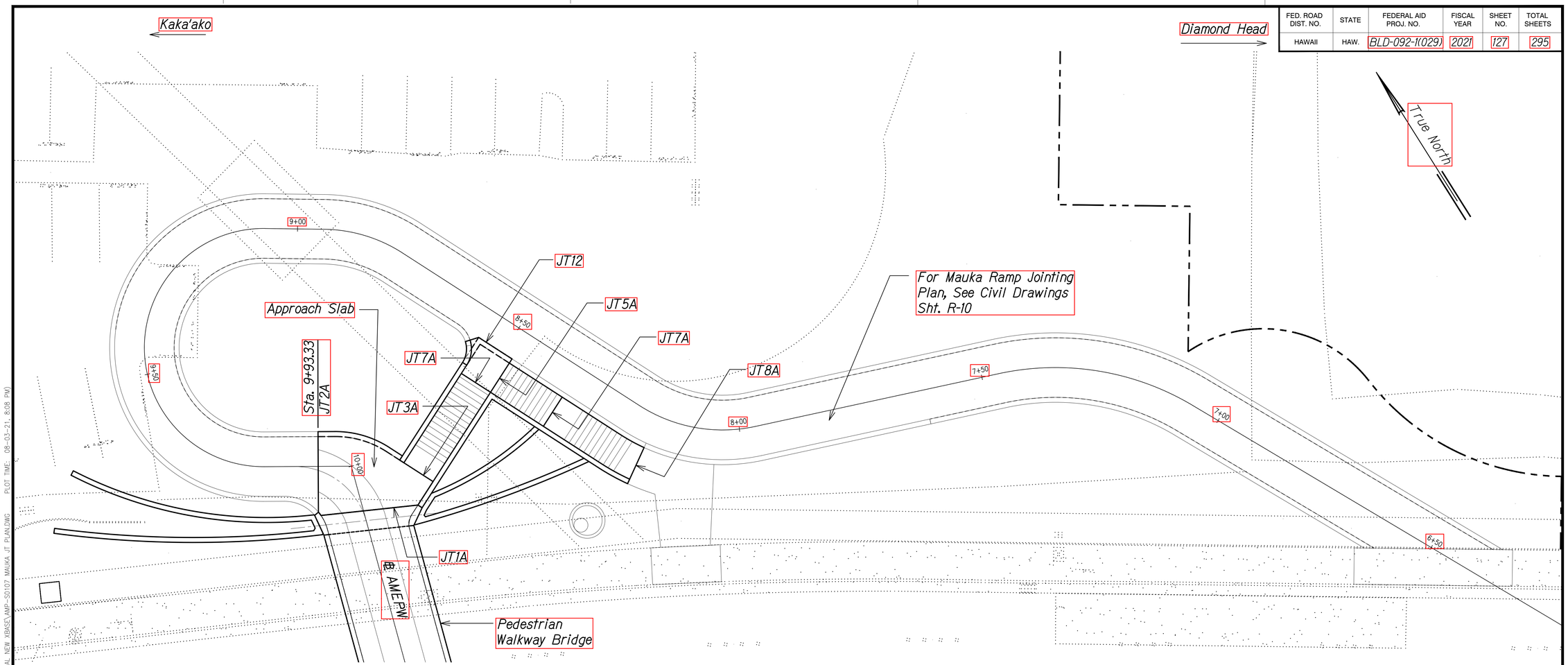
MAUKA RAMP LAYOUT PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.6 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	127	295



LEGEND:

JT1A	See A/S5.3 and A/S10.3
JT2A	See A/S10.4
JT3A	See B/S10.4
JT5A	See A/S14.12 and 3/S17.1
JT7A	See A/S14.12, A/S14.13, and 4/S17.1
JT8A	See A/S14.12
JT12	See 5/S17.1

MAUKA RAMP WALKWAY JOINTING PLAN

Scale: 1" = 10'-0"

A
S1.7 | S1.7

DATE
1
2
3
4
5

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\00 ONGOING\00 CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0107 MAUKA AT PLAN.DWG
PLOT TIME 08-03-21, 8:08 PM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

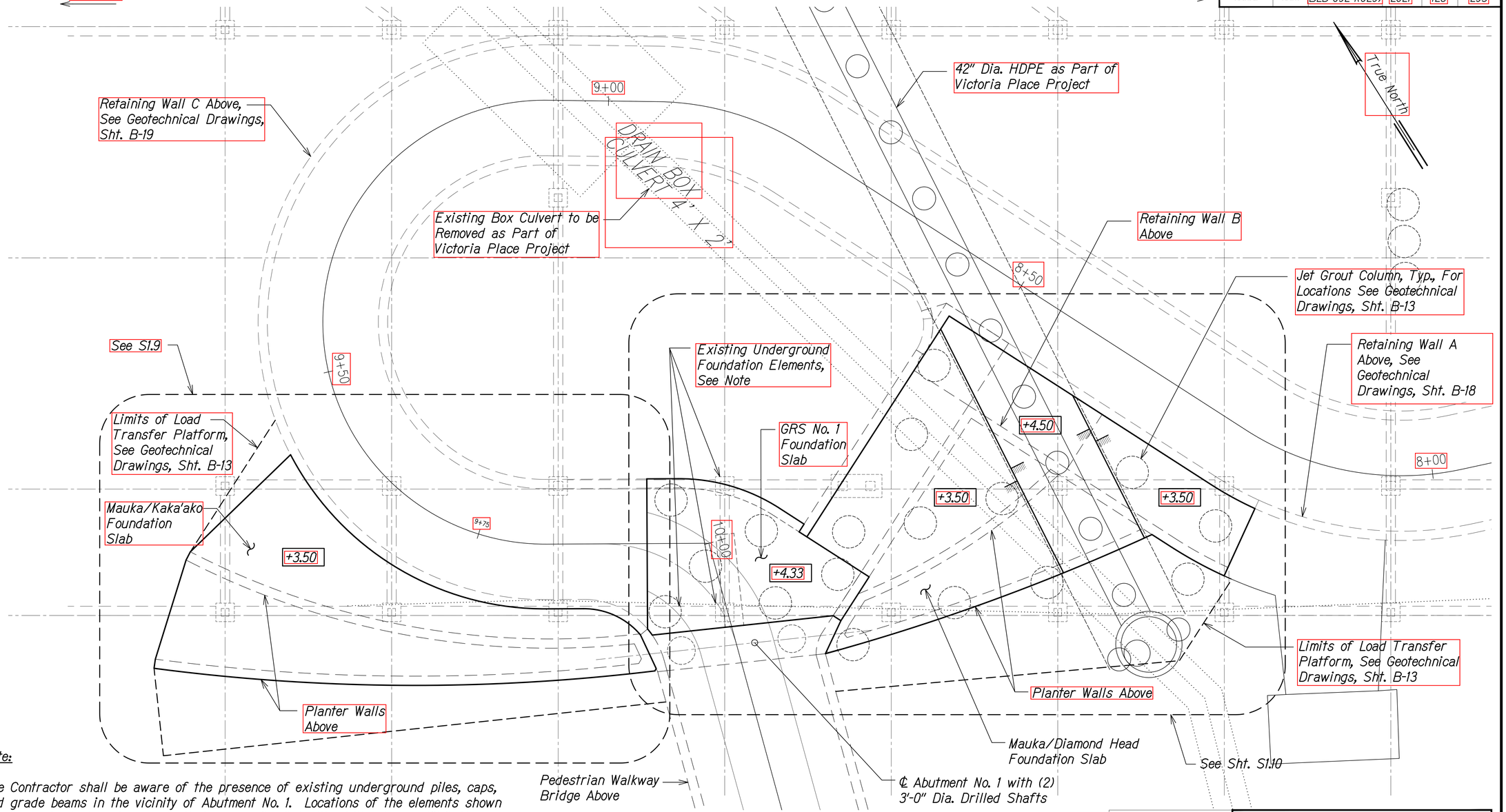
MAUKA RAMP WALKWAY JOINTING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.7 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	128	295



Note:

The Contractor shall be aware of the presence of existing underground piles, caps, and grade beams in the vicinity of Abutment No. 1. Locations of the elements shown are approximate based on as-built drawings for "The Ward Warehouse, 1050 Ala Moana Blvd., Honolulu, Hawaii" dated April 1973, prepared for Victoria Ward Limited (owner) and are for reference only.

Legend:

+X.XX — Elevation at top of foundation slab (in feet)

Step in foundation slab

MAUKA RAMP FOUNDATION PLAN

Scale: 3/16" = 1'-0"

A S1.8 | S1.8

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0108 RAMP MAUKA EDN.DWG PLOT TIME: 08-03-21, 6:44 PM

DATE					

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-22

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HIGHWAYS DIVISION

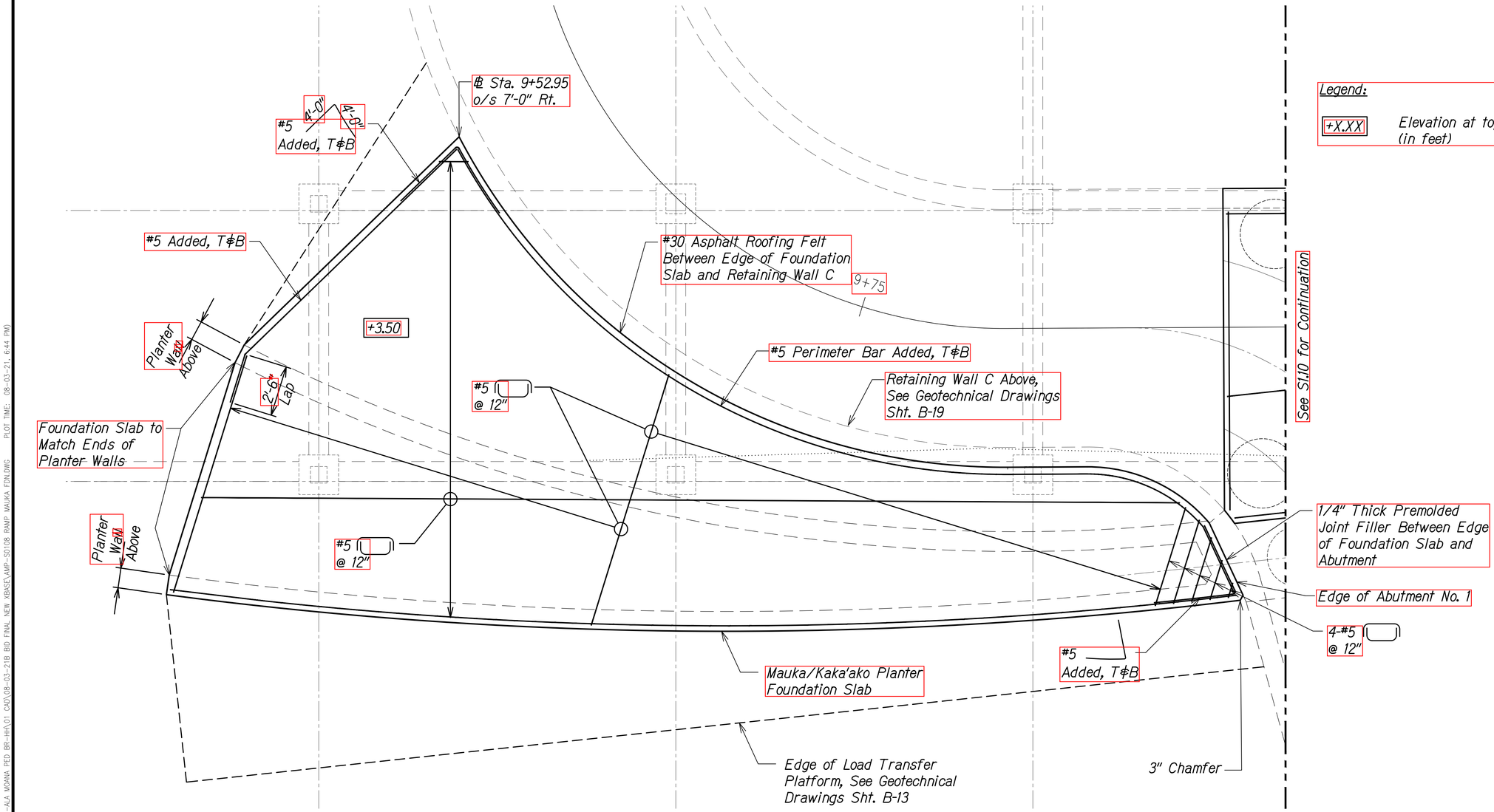
MAUKA RAMP FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.8 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	129	295



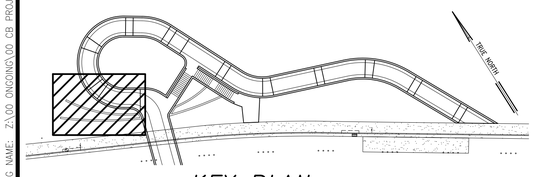
Legend:

+X.XX — Elevation at top of foundation slab (in feet)

MAUKA RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.9 | S1.9



KEY PLAN

DATE	ISSUE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW YBASE\AMP-S0108 RAMP MAUKA FDN.DWG PLOT TIME: 08-03-21, 6:44 PM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAUKA RAMP
ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

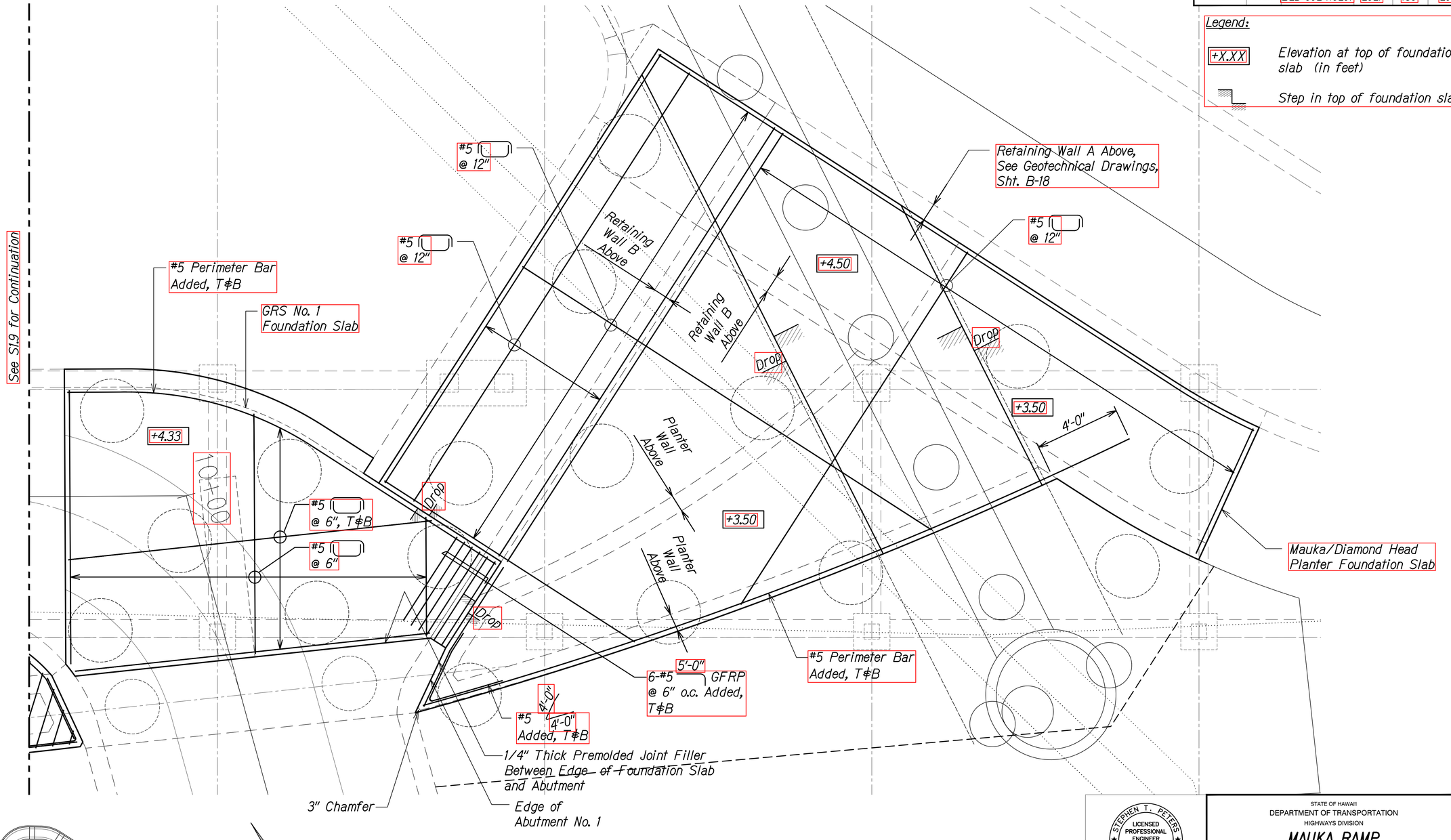
SHEET No. S1.9 OF 19 SHEETS

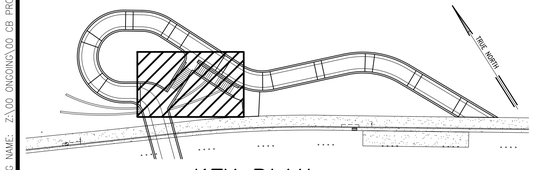
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	130	295

Legend:

+X.XX — Elevation at top of foundation slab (in feet)

Step in top of foundation slab





KEY PLAN

MAUKA RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.10 | S1.10

ORIGINAL PLAN | NOTE BOOK | No.

DATE | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY

DRAWING NAME: Z:\OD ONGONO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASES\MP-S0108 RAMP MAUKA FDN.DWG PLOT TIME: 08-03-21, 6:45 PM

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

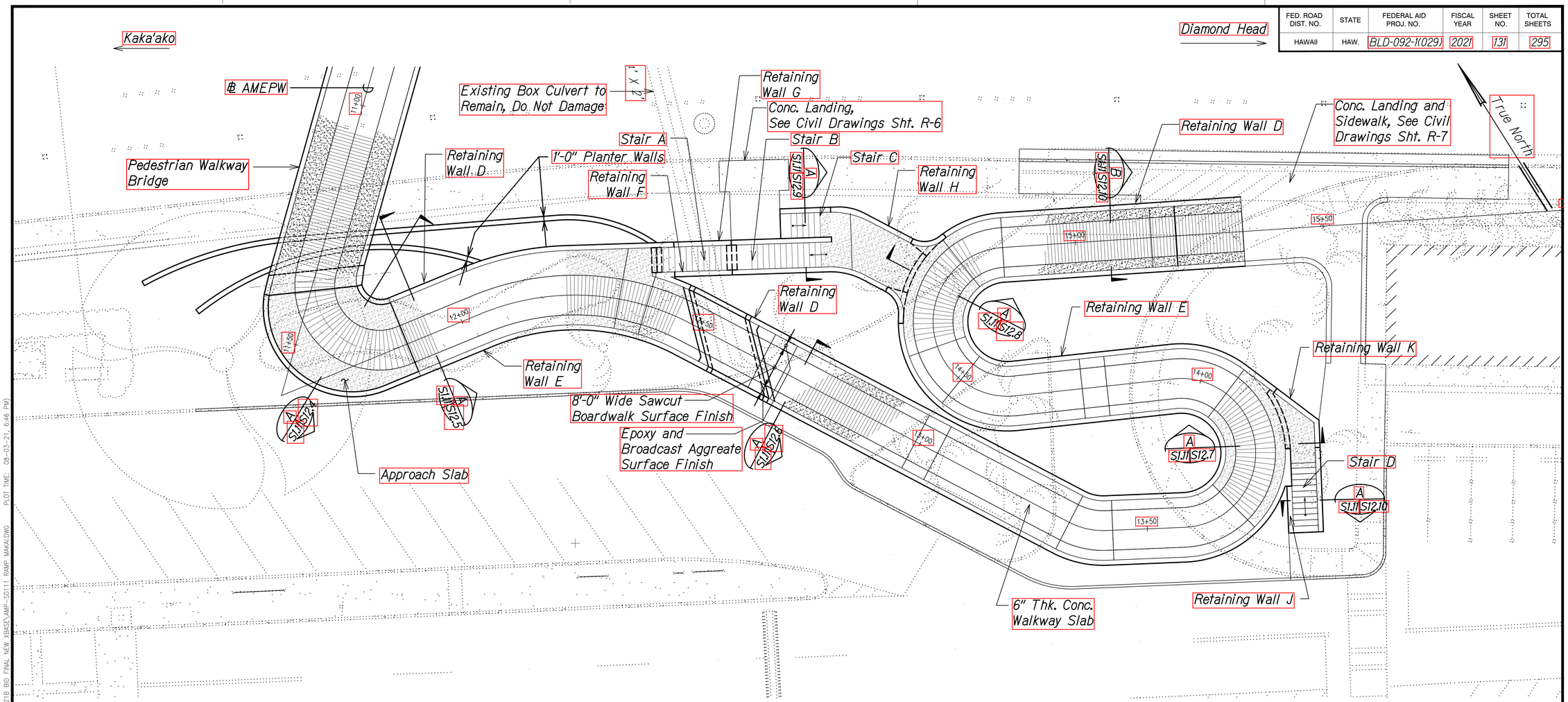
MAUKA RAMP
ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted — Date: July 2021

SHEET No. S1.10 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	131	295



Legend:

8'-0" Wide Sawcut Boardwalk Surface Finish. See Sht. S17.6 for Details

Epoxy and Broadcast Aggregate Surface Finish. See Special Provisions Section 680

Notes:

1. All concrete walkway surfaces and stairs shall receive an initial medium broom finish.
2. Sawcut Boardwalk Surface finish shall be considered incidental to Pay Item 634.1000.

MAKAI RAMP LAYOUT PLAN

Scale: 1" = 10'-0"

A S1.11 S1.11

DATE	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY
ORIGINAL PLAN						
NOTE BOOK						
No.						

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S011 RAMP MAKAI.DWG
PLOT TIME: 08-03-21, 6:46 PM)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STEPHEN T. PETERS
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4-30-22
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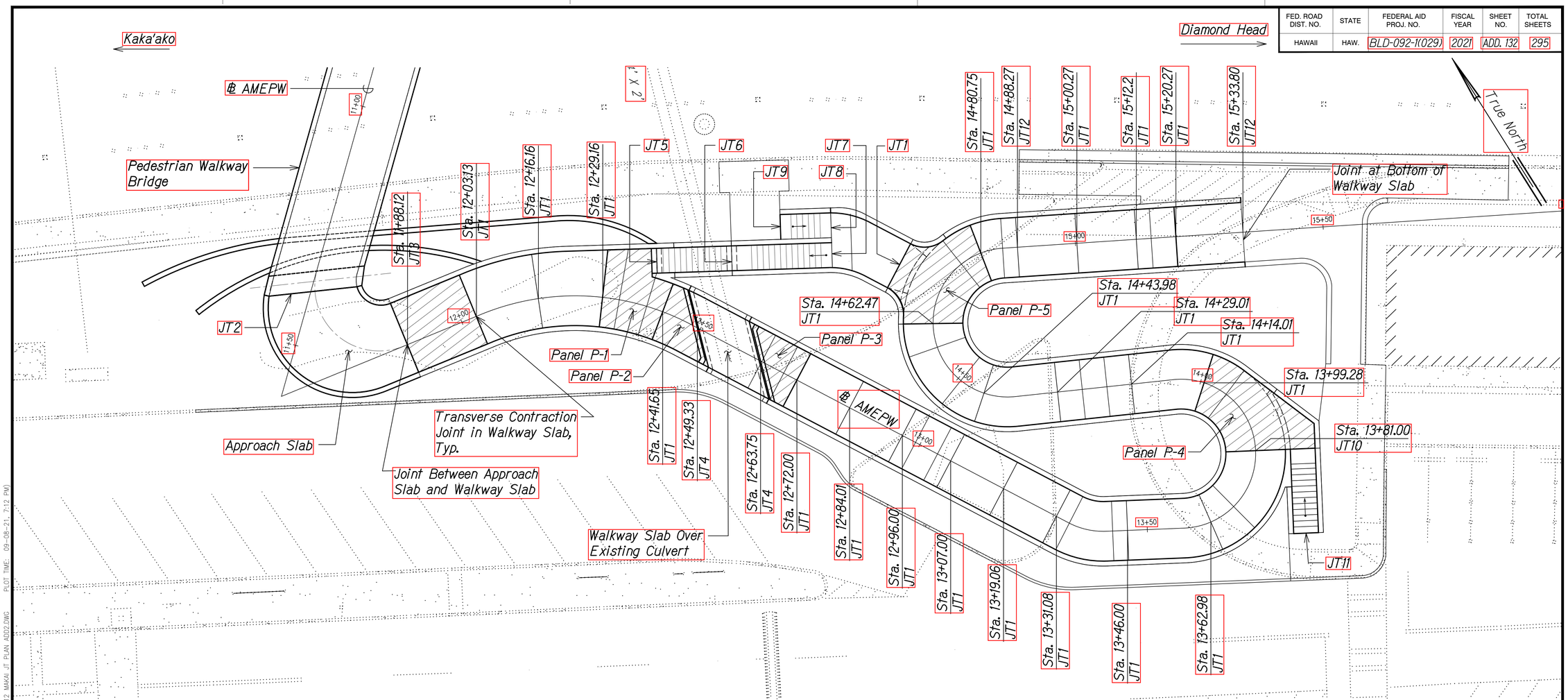
MAKAI RAMP LAYOUT PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.11 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 132	295



MAKAI RAMP WALKWAY JOINTING PLAN

Scale: 1" = 10'-0"

A S1.12 S1.12

Odd Shaped Panel Sections with Added #4 @ 8" o.c. EW, Reinforcing. See Sheet S17.9 for additional added reinforcing in select panels. 2

LEGEND:

JT1	See 1/S17.1	JT8	See A/S14.10
JT2	See A/S5.12 and A/S10.3	JT9	See A/S14.10
JT3	See B/S10.4	JT10	See A/S14.11
JT4	See A/S13.4	JT11	See A/S14.11
JT5	See A/S14.8	JT12	5/S17.1
JT6	See A/S14.8 and A/S14.9	JT13	6/S17.1
JT7	See A/S14.9		

No.	DATE	REVISION
2	9/10/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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MAKAI RAMP WALKWAY JOINTING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

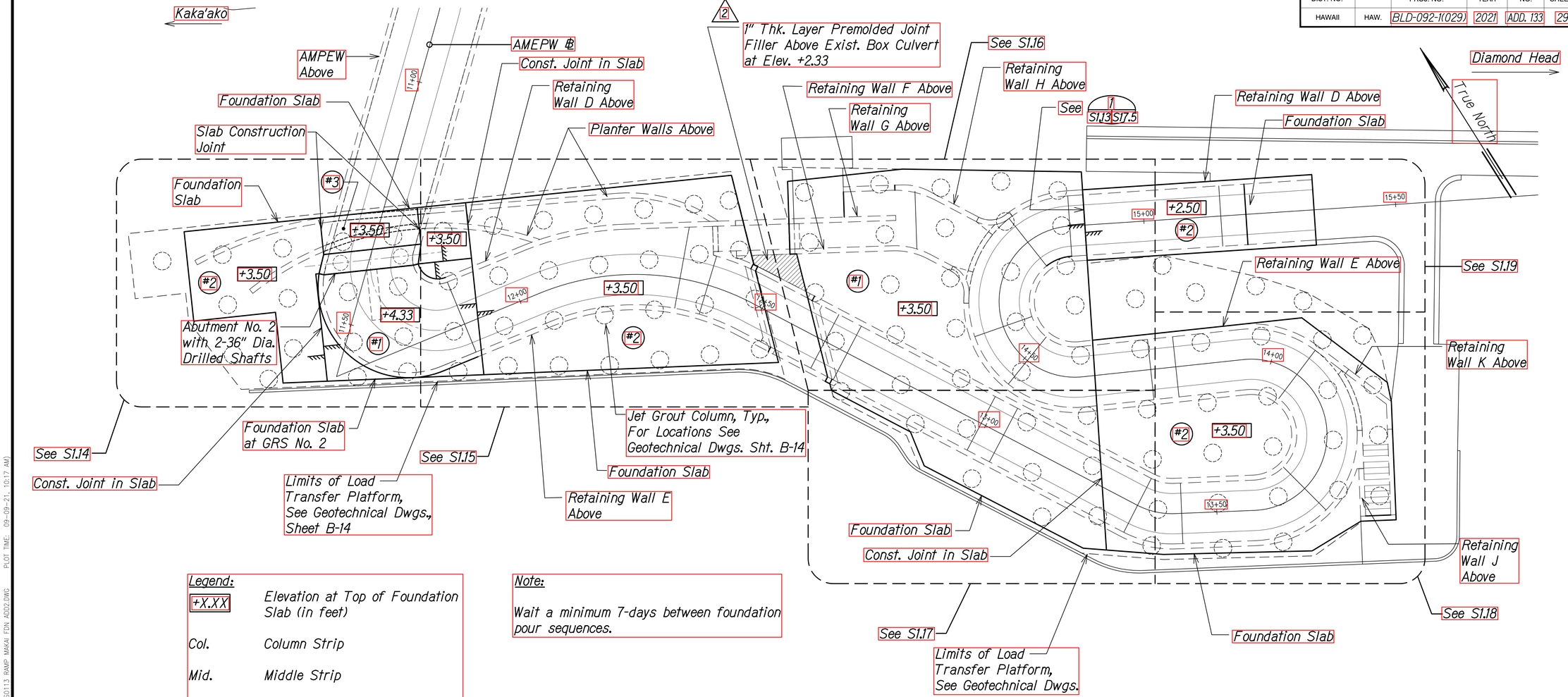
SHEET No. S1.12 OF 19 SHEETS

ADD. 132

ORIGINAL PLAN | NOTE BOOK | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

PLOT TIME: 09-08-21, 7:12 PW
DRAWING NAME: Z:\OD ENGINEERING\09-092-ALA MOANA PED BR-HAWDI CAD\09-09-21 ADD\MKP-S1112 MAKAI JT PLAN ADD2.DWG

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 133	295



Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab
#	Foundation Slab Pour Sequence
2	Premolded Joint Filler

Note:

Wait a minimum 7-days between foundation pour sequences.

Bar Type	Reinforcement
"A" Bar	#6 @ 6"
"B" Bar	#5 @ 6"
"C" Bar	#6 @ 12"
"D" Bar	#5 @ 12"

MAKAI RAMP FOUNDATION PLAN

Scale: 1" = 10'-0"

A S1.13 S1.13

DATE	REVISION
2 9/10/21	Added Premolded Joint Filler

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SHEET No. S1.13 OF 19 SHEETS

ADD. 133

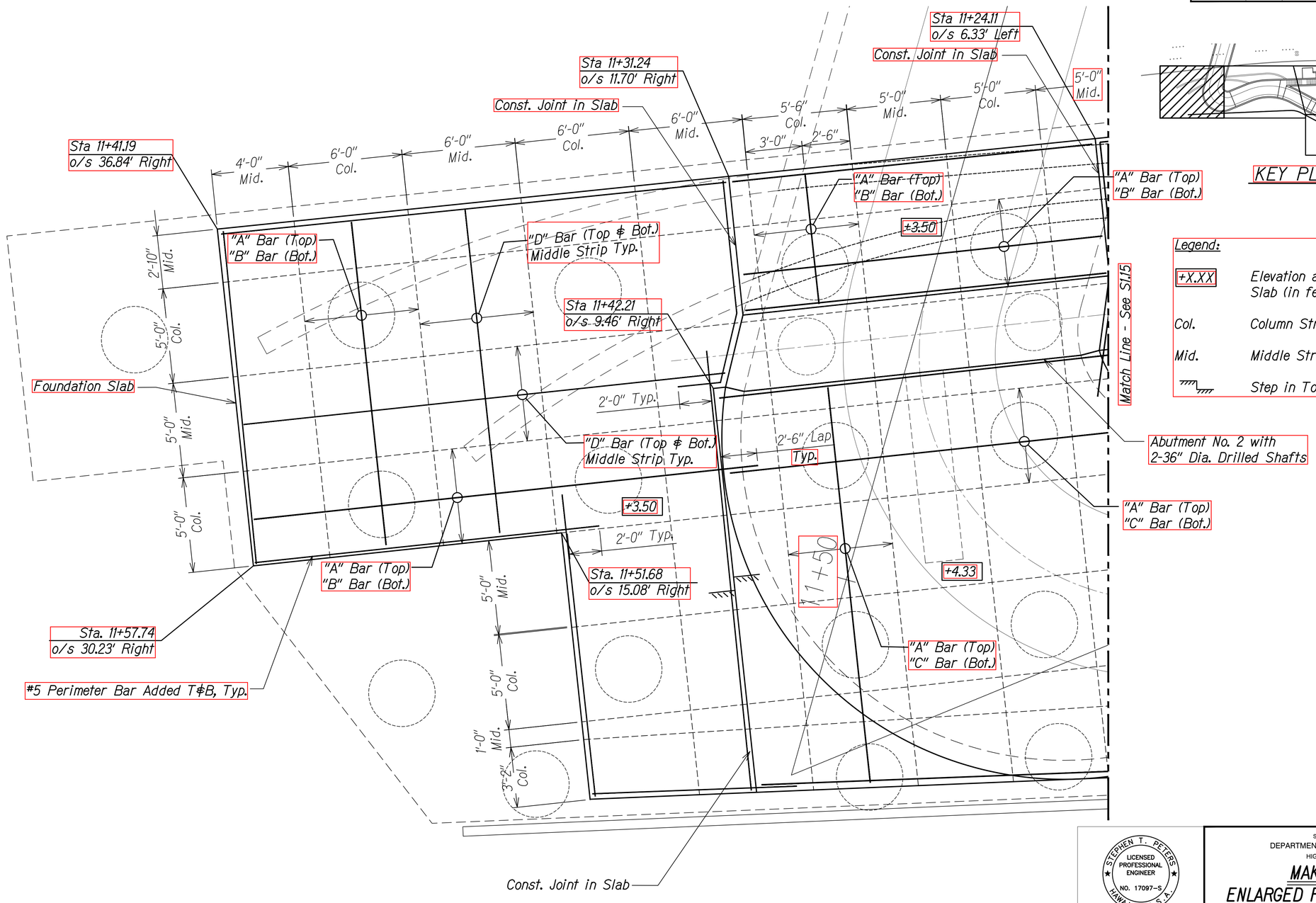
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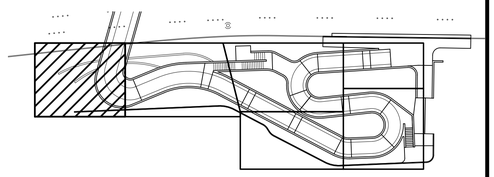
DATE | REVISION

SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY

ORIGINAL PLAN | NOTE BOOK | No.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	134	295





KEY PLAN

Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab

MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.14 | S1.14

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
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HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP
ENLARGED FOUNDATION PLAN

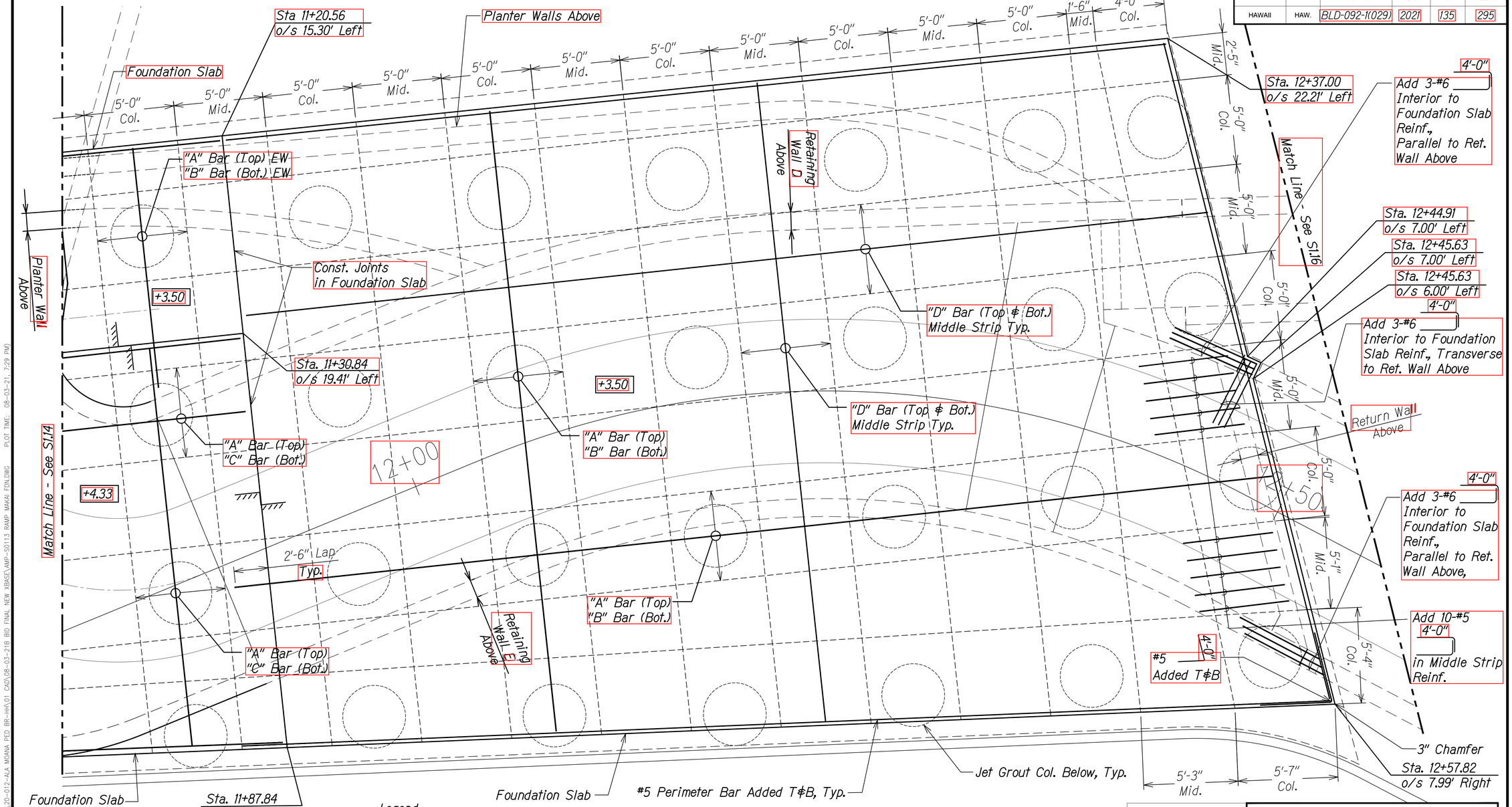
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

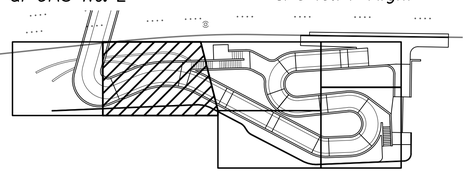
Scale: As Noted Date: July 2021

SHEET No. S1.14 OF 19 SHEETS

DRAWING NAME: Z:\OD ONGINO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0113 RAMP MAKAI FDN.DWG PLOT TIME: 08-03-21, 7:29 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	135	295





KEY PLAN

Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab

MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.15 S1.15

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

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NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP
ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.15 OF 19 SHEETS

DRAWING NAME: Z:\OD ONDONGA\OD CB PROJECTS\20-012-ALA MOANA PED BR-HAWDI CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0113 RAMP MAKAI FDN.DWG PLOT TIME: 08-03-21; 7:29 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	136	295

Foundation Slab
Varies Col.
5'-3" Mid.
6'-9" Col.
3'-9"
3'-0"
Sta. 12+44.42 o/s 24.81' Right
Retaining Wall G Above
Sta. 12+61.76 o/s 37.38' Left
Retaining Wall H Above
Retaining Wall D Above
Sta. 14+88.27 o/s 10.57' Left
Sta. 14+88.27 o/s 7.00' Left
#5 @ 12"
15+00
+2.50
15'-0" Col.
Sta. 12+49.86 o/s 12.09' Left
Sta. 12+51.01 o/s 12.74' Left
Retaining Wall F Above
2'-0" Typ.
5'-0" Mid.
+3.50
4'-0"
Add 3-#6 Interior to Foundation Slab Reinf., Parallel to Ret. Wall Above
"D" Bar (Top & Bot.) Middle Strip Typ.
Sta. 14+88.27 o/s 7.00' Right
Foundation Slab
#5 Perimeter Bar Added T&B, Typ.
Match Line - See S1.17
Match Line - See S1.15
Add 10-#5 4'-0" in Middle Strip Reinf.
"A" Bar (Top)
"B" Bar (Bot.)
Sta. 14+34.86 o/s 7.00' Right
Retaining Wall E Above
5'-0" Col.
5'-0" Mid.
5'-0" Col.
5'-0" Mid.
5'-0" Col.
4'-0"
Add 3-#6 Interior to Foundation Slab Reinf., Transverse to Ret. Wall Above
Sta. 12+67.77 o/s 6.00' Right
Sta. 12+67.77 o/s 7.00' Right
Sta. 12+68.80 o/s 7.00' Right
Retaining Wall D Above
8'-0" Col.
5'-0" Col.
Retaining Wall E Above
4'-0" Match Line - See S1.18
Add 3-#6 Interior to Foundation Slab Reinf., Parallel to Ret. Wall Above, Typ.
6'-0" Mid.
6'-0" Col.
6'-0" Mid.
6'-0" Col.
6'-0" Mid.
6'-0" Col.
6'-0" Mid.
6'-0" Col.
Const. Joint in Slab

KEY PLAN

MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.16 S1.16

DATE	REVISIONS

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP
ENLARGED FOUNDATION PLAN

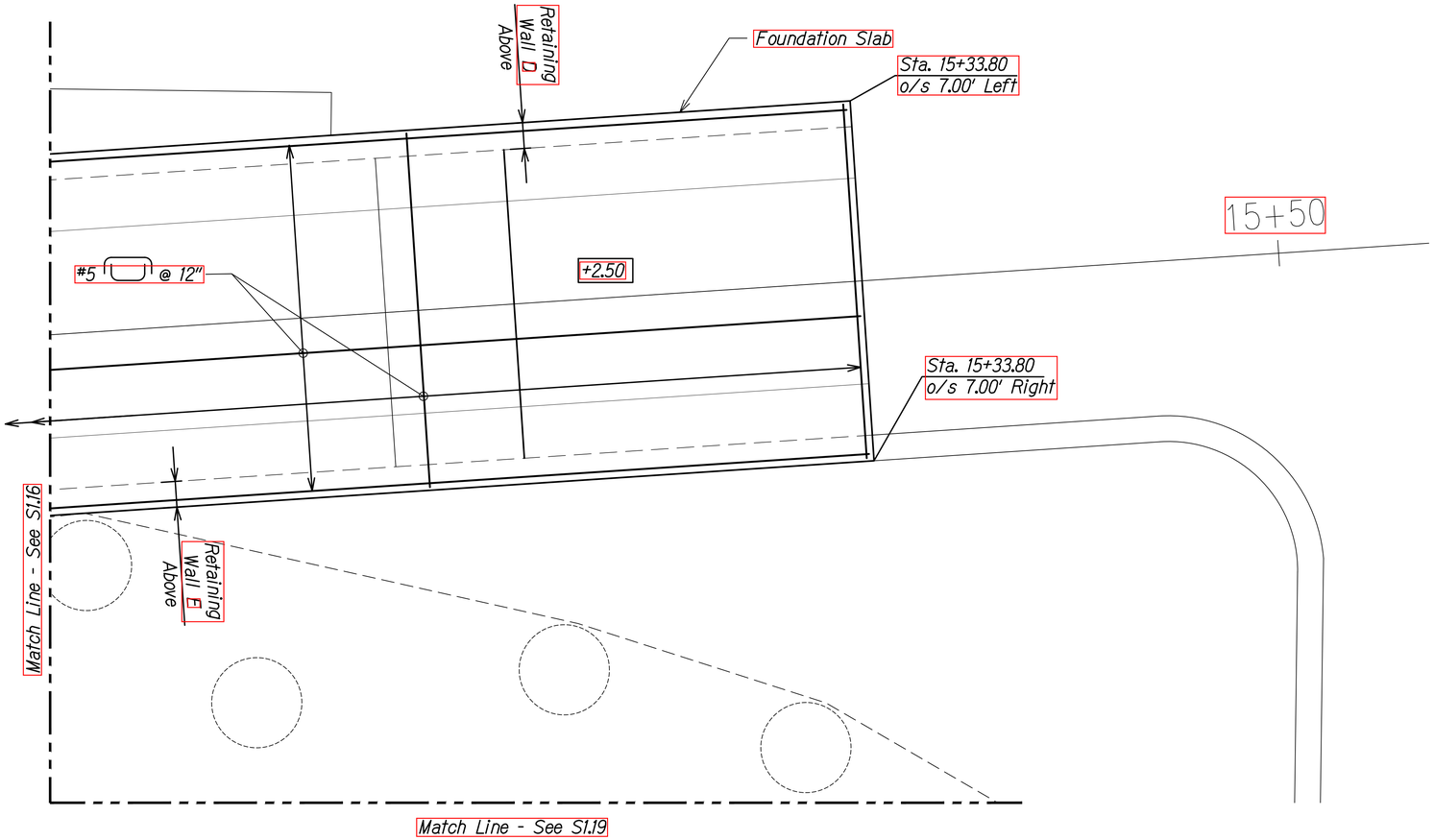
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

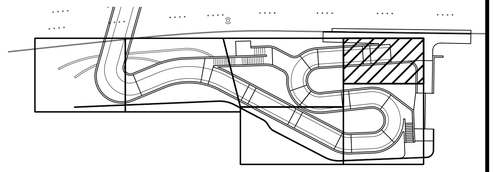
Scale: As Noted Date: July 2021

SHEET No. S1.16 OF 19 SHEETS

PLOT TIME: 08-03-21; 7:30 PM
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	137	295





KEY PLAN

Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab

MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.17 S1.17

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0113 RAMP MAKAI FIN.DWG PLOT TIME: 08-03-21; 7:30 PM)

ORIGINAL PLAN	DATE	SURVEY PLOTTED BY
NOTE BOOK		DRAWN BY
No.		TRACED BY
		DESIGNED BY
		QUANTITIES BY
		CHECKED BY

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HIGHWAYS DIVISION

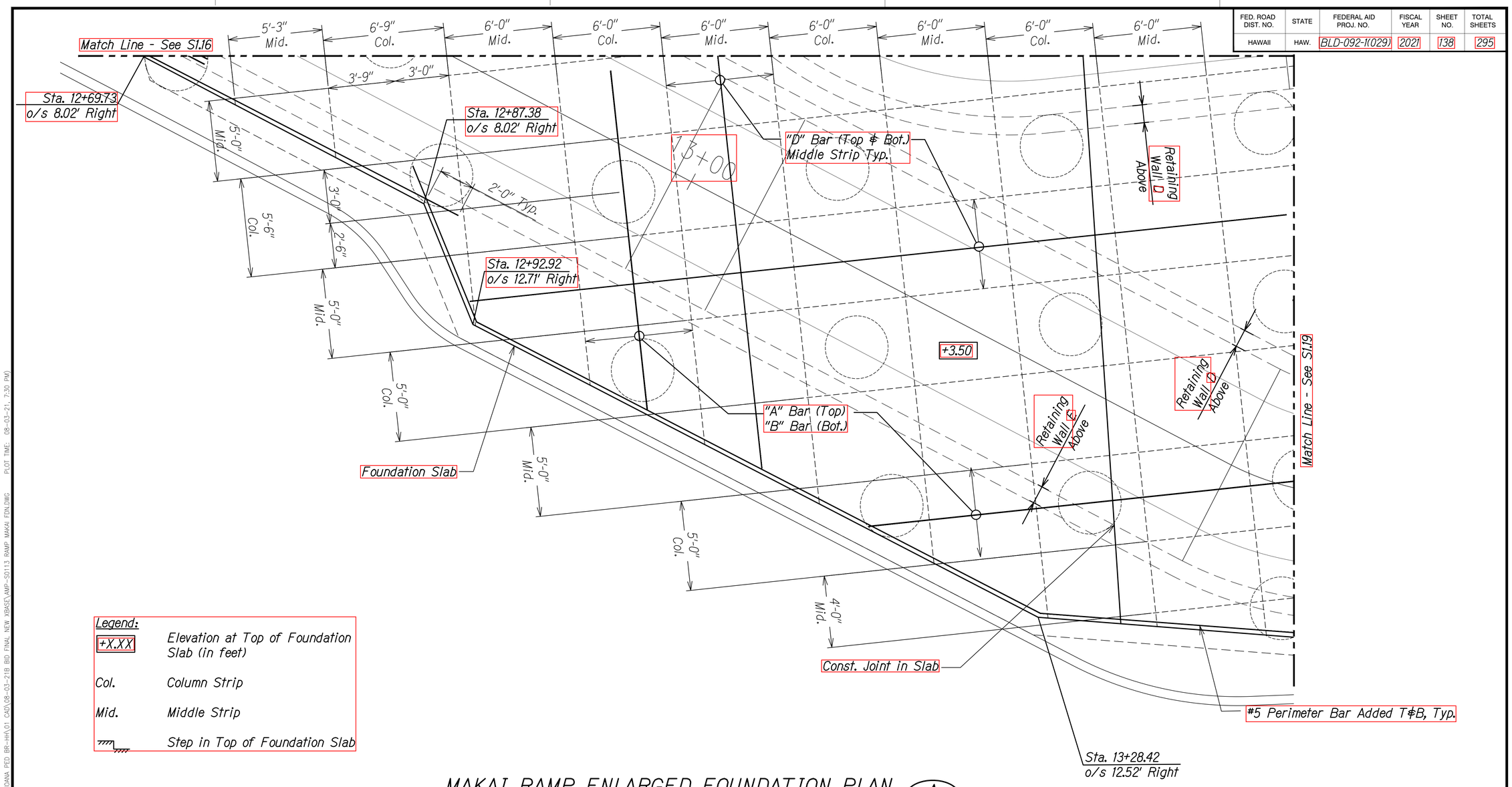
MAKAI RAMP ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

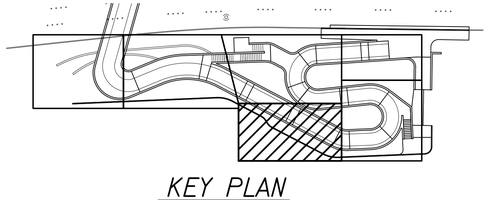
SHEET No. S1.17 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	138	295



Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab



KEY PLAN

MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.18 S1.18

ORIGINAL PLAN	DATE	SURVEY PLOTTED BY
NOTE BOOK		DRAWN BY
No.		TRACED BY
		DESIGNED BY
		QUANTITIES BY
		CHECKED BY

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASES\MP-S0113 RAMP MAKAI FDN.DWG PLOT TIME: 08-03-21, 7:30 PM)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP
ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

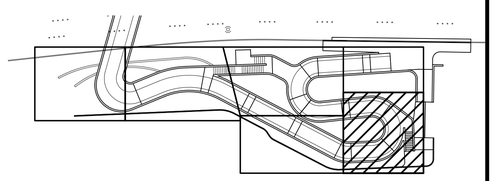
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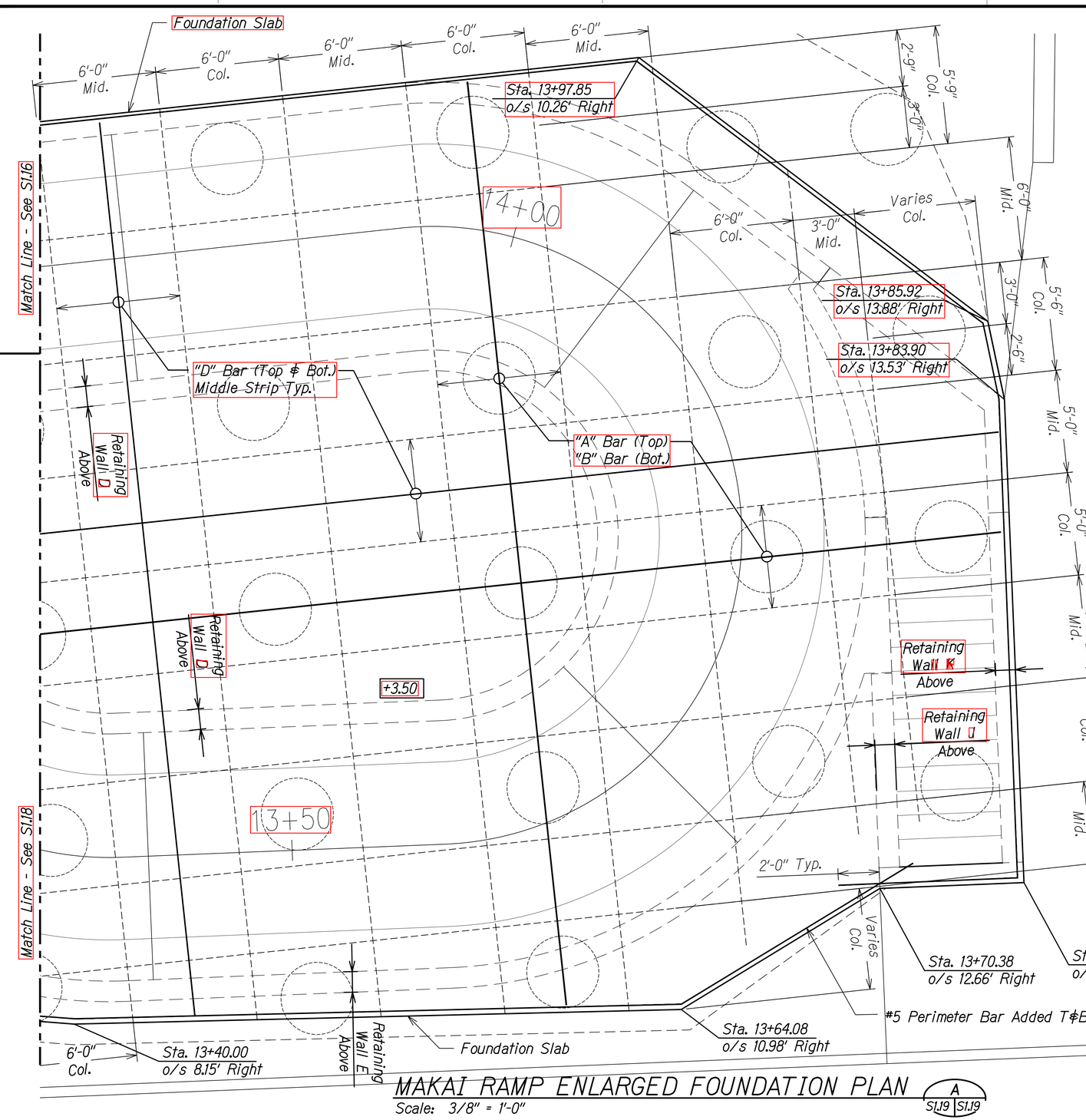
SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S1.18 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	139	295



KEY PLAN



MAKAI RAMP ENLARGED FOUNDATION PLAN

Scale: 3/8" = 1'-0"

A S1.19 S1.19

Legend:

+X.XX	Elevation at Top of Foundation Slab (in feet)
Col.	Column Strip
Mid.	Middle Strip
	Step in Top of Foundation Slab

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HNL01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0113 RAMP MAKAI FDN.DWG PLOT TIME: 08-03-21; 7:31 PM)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S ★ HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

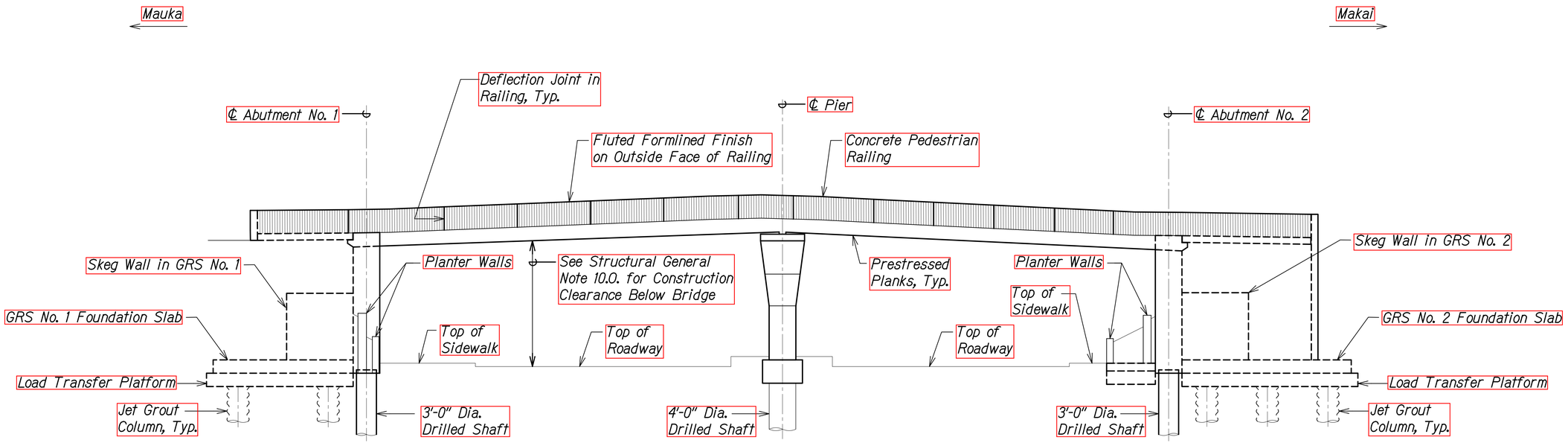
MAKAI RAMP
ENLARGED FOUNDATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.19 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	140	295



BRIDGE ELEVATION

Scale: 1/8" = 1'-0"

A S2.1 S2.1

PLOT TIME: 08-03-21, 4:54 PM
DRAWING NAME: Z:\OD ONGONG\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0201 ELEV.DWG

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	DESIGNED BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

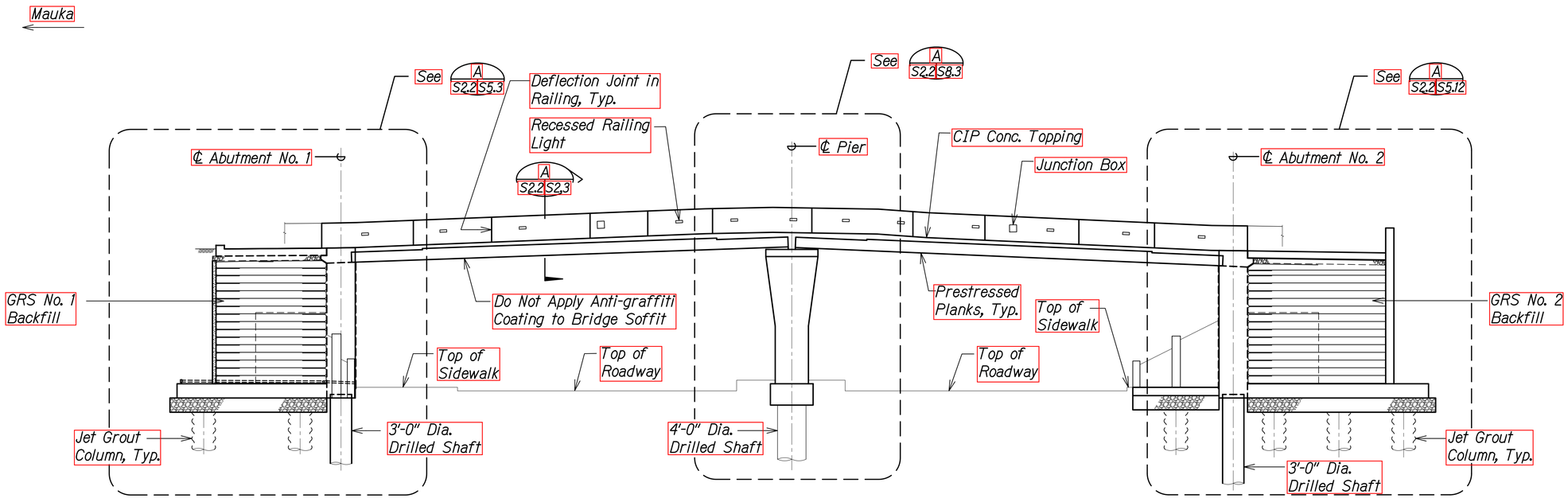
BRIDGE ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S2.1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	141	295



BRIDGE LONGITUDINAL SECTION

Scale: 1/8" = 1'-0"

A S2.2 S2.2

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S0202 LONG SECT.DWG PLOT TIME: 08-04-21 9:49 AM)

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY
	DATE

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

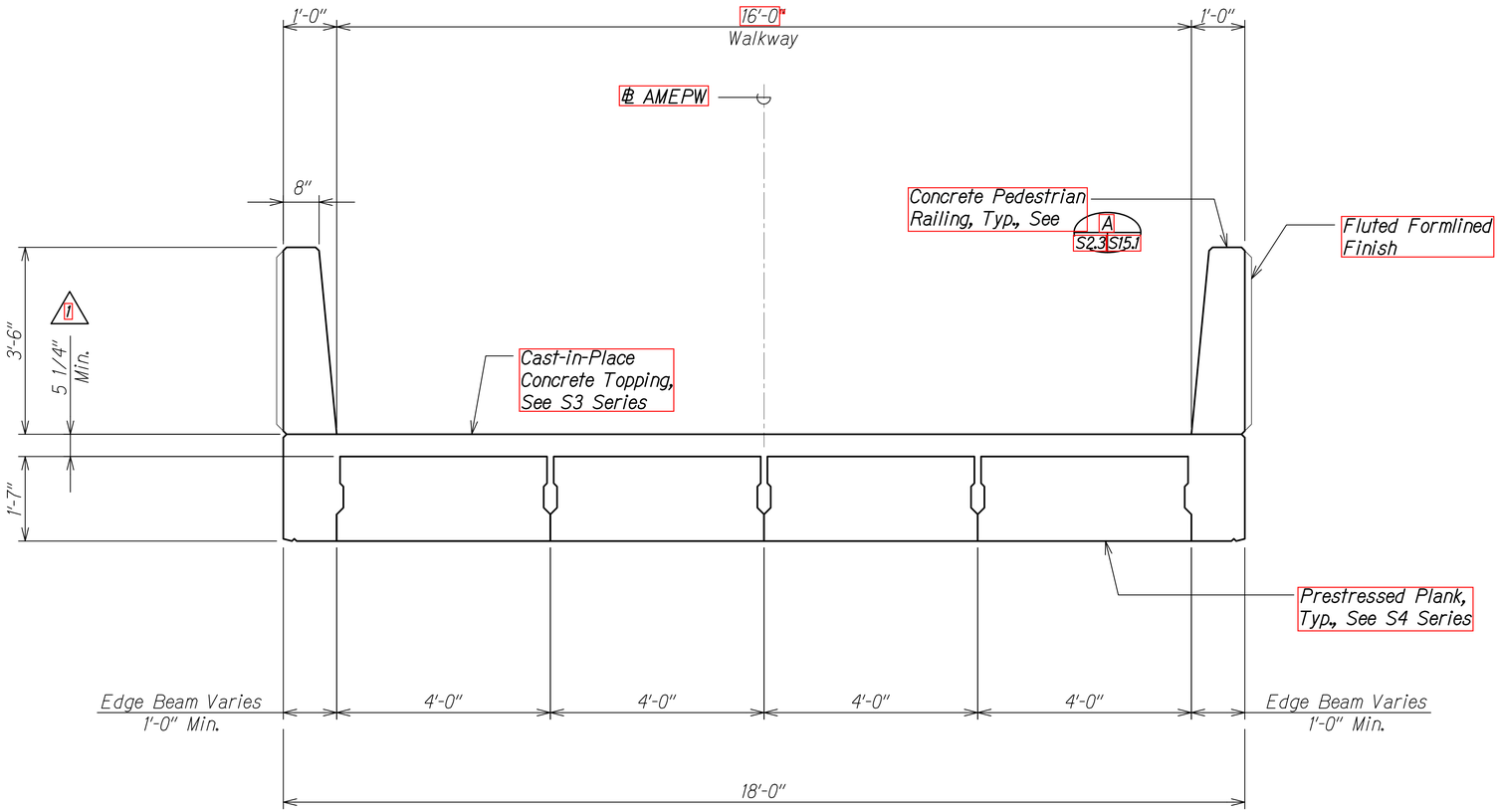
BRIDGE LONGITUDINAL SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S2.2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 142	295



BRIDGE TRANSVERSE SECTION

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

A S1.2 S2.3

S2.2

1	8/30/21	Revised Dimension
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRANSVERSE SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SHEET No. S2.3 OF 3 SHEETS

ADD. 142

DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\AMP-S0203 TRNSV SECT ADD1.DWG PLOT TIME: 08-30-21, 11:15 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 143	295

Mauka

Makai

True North

4-#6 @ 6" o.c. Added

℄ AMEPW

1'-0" Min. Concrete Edge Beam

Edge of Deck

B S3.1 S3.2

A S3.1 S3.2

#5 @ 6" Bot. (2)

15'-0" #6 @ 6" Bundled to Typ. Long. Topping Bars

#6 x 40'-0" @ 6" Over Pier, Bundled to Typ. Long. Topping Bars

#5 @ 12" Top (2)

#6 @ 6" Top

10+00

10+50

Change in Plank Depth, See Sht. S4.4

Edge of Deck

1'-0" Min. Concrete Edge Beam

℄ Abutment No. 1
℄ Sta. 10+11.36
Az. 296° 5' 0.0"

ALA MOANA BOULEVARD

℄ Pier
Az. 296° 5' 0.0"

(2) ℄ Sta. 10+74.58

11+00

12+00

15'-0" #6 @ 6" Bundled to Typ. Long. Topping Bars

#5 @ 6" Bot. (2)

11+50

℄ Abutment No. 2
℄ Sta. 11+36.62
Az. 296° 5' 0.0"

(2) Note:

Orient transverse reinforcing parallel with Azimuth 296° 5' 0".

DECK REINFORCING PLAN (A S3.1 | S3.1)

Scale: 3/16" = 1'-0"

(2)	9/10/21	Revised Callouts
	DATE	REVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DECK REINFORCING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S3.1 OF 3 SHEETS

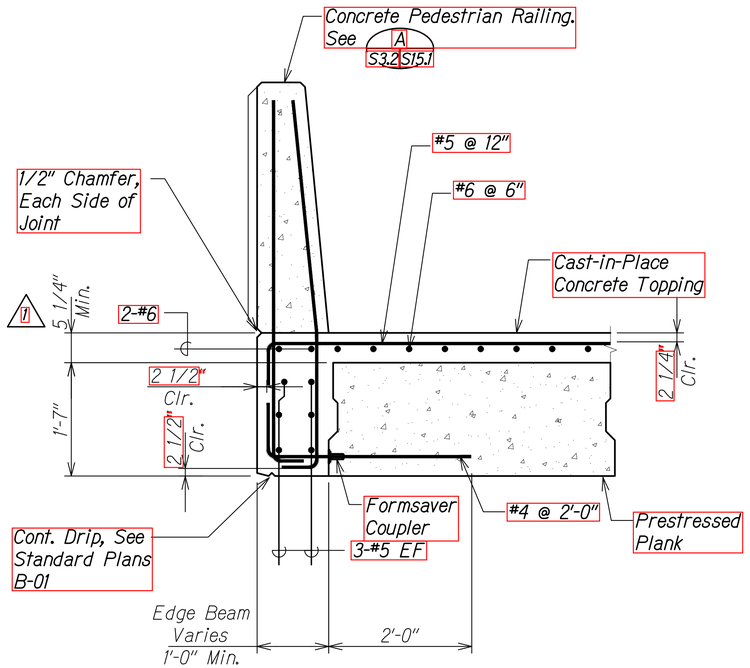
ADD. 143

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

NOTE BOOK | No.

DRAWING NAME: ZA:\OD ONGINO\20-012-ALA MOANA PED BR-HWY\01 CAD\09-09-21 ADD2\AMP-S3301 DECK REINF PLAN ADD2.DWG PLOT TIME: 09-09-21 7:03 PM

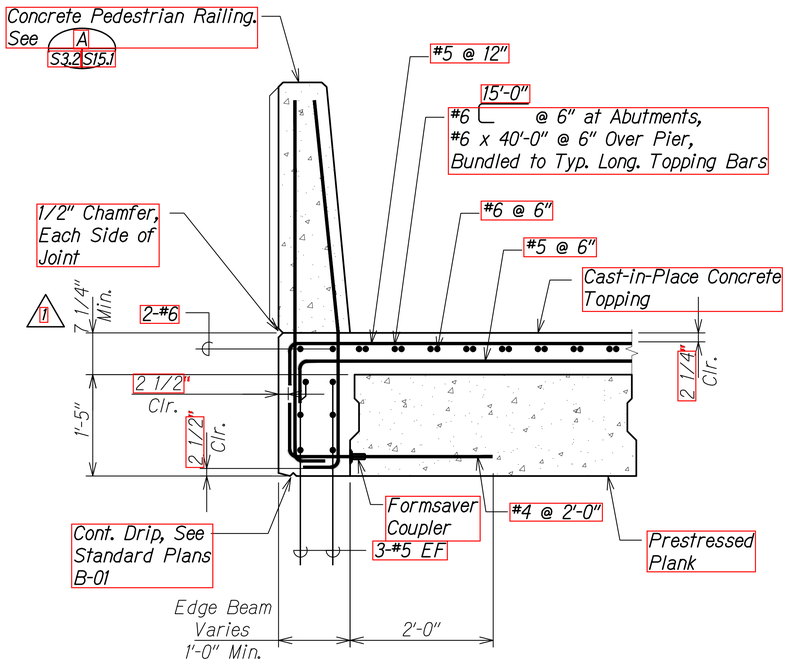
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 144	295



PARTIAL DECK SECTION NEAR MIDSPAN

Scale: 1" = 1'-0"

A S3.1 S3.2



PARTIAL DECK SECTION NEAR ENDS

Scale: 1" = 1'-0"

B S3.1 S3.2

1	8/30/21	Revised Dimensions
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL DECK REINFORCING SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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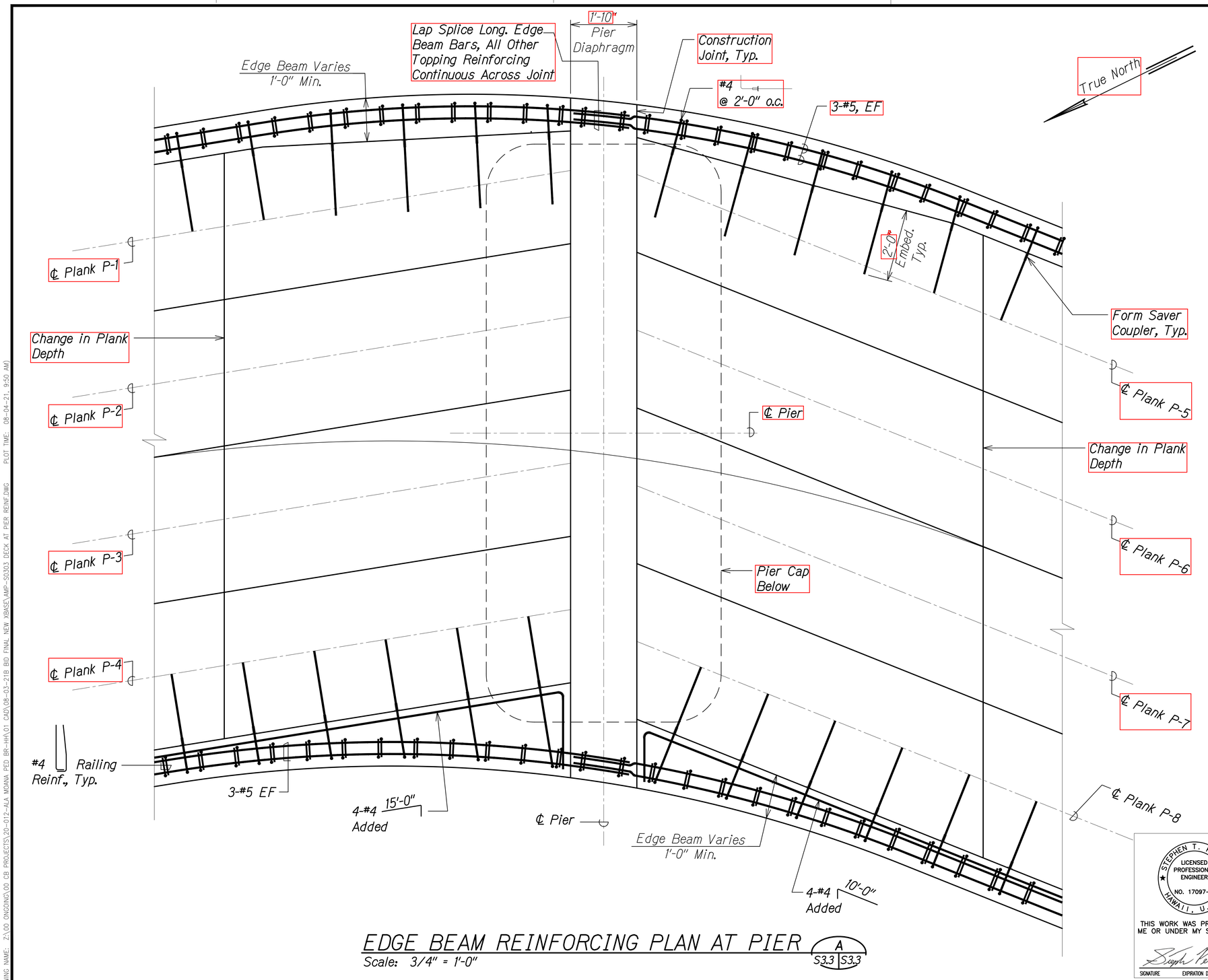
SHEET No. S3.2 OF 3 SHEETS

ADD. 144

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\AOI ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\VAMP-S0302 DECK SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:15 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	145	295



EDGE BEAM REINFORCING PLAN AT PIER

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

A S3.3 | S3.3

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HAY01 CAD\08-03-21B BID FINAL NEW XBASES.MP-S3.3 DECK AT PIER REINF.DWG PLOT TIME: 08-04-21 9:50 AM

DATE	SURVEY PLOTTED BY	ORIGINAL PLAN
	DRAWN BY	
	TRACED BY	NOTE BOOK
	DESIGNED BY	
	QUANTITIES BY	No.
	CHECKED BY	

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

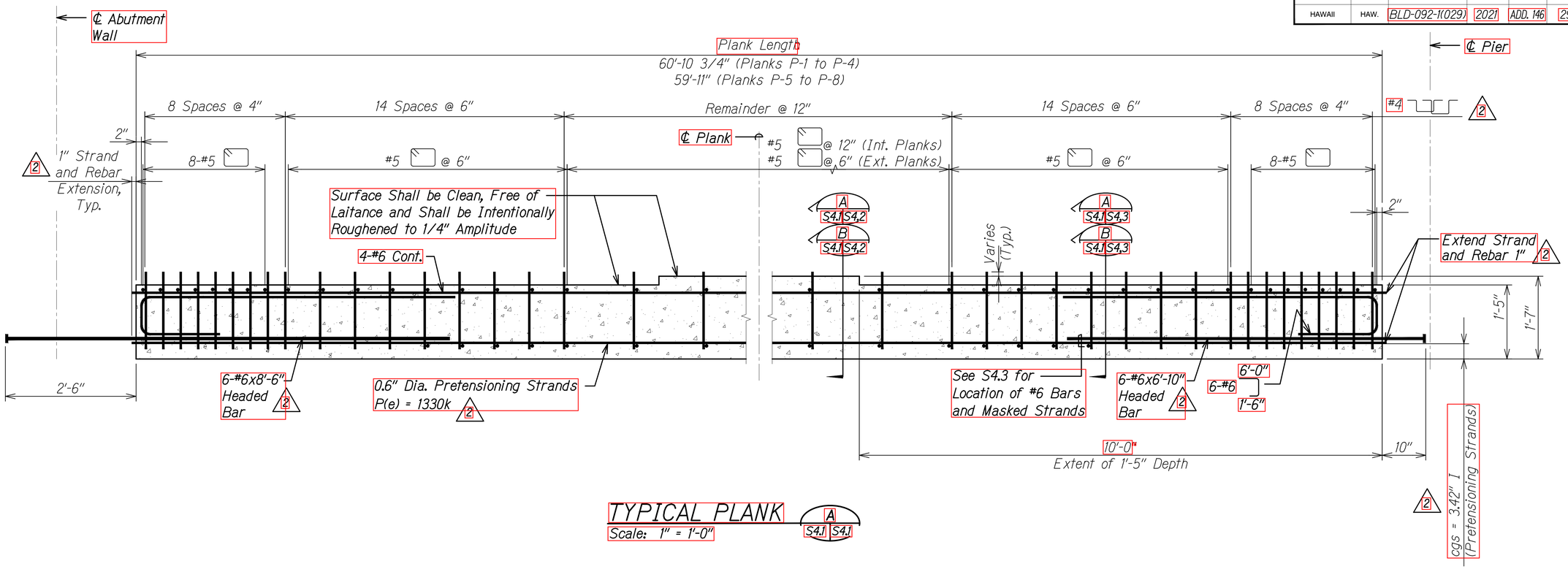
EDGE BEAM REINFORCING PLAN AT PIER

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S3.3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 146	295



TYPICAL PLANK

Scale: 1" = 1'-0"

A S4.1 S4.1

PRESTRESSED PLANK NOTES

1. Concrete 28 day strength f'c = 10,000 PSI (at time of topping pour). Concrete strength at time of pretensioning strand release fci = 5,000 psi. See Structural General Note for Shrinkage Reducing Admixture (SRA).
2. Pretensioned strands shall be 7 wire 0.6" dia. low relaxation steel strands (Area = 0.215 in^2) ASTM A416 grade 270 ksi. See Specs. Section 504 for definition of P(e).
3. Non-prestressed reinforcing steel shall be ASTM A615 Grade 60.
4. Strand pattern shall be symmetrical about the longitudinal ℄ of the plank.
5. Strand release sequence shall not induce any lateral deflection of the plank.
6. Contractor shall submit shop drawings indicating proposed pretensioned strand details, post tensioning details, calculations, releasing sequence, reinforcing details, hold down device details, and all other applicable details for precast plank to the Engineer prior to fabrication. See Special Provisions Sect. 504 for additional requirements.
7. During curing, care shall be taken to avoid any lateral deflection of the plank due to improper orientation.
8. Lifting devices shall be placed as close as possible to the centerline of bearing of the plank. Details and locations of lifting devices shall be submitted to the Engineer for approval. Such approval does not relieve the Contractor of his responsibilities if beam is damaged due to failure of the lifting device.
9. See sheet S4.3 for pretensioned strand masking. Masking Pattern shall be uniform and symmetrical. Contractor shall submit pattern shop drawings.
10. Pretensioned strands, and longitudinal bars (6-#6 ⟝, and #6 ⟌) shall be parallel in plan with the alignment of the planks.
11. Stirrups and ties shall be in plan with ℄ abutment walls and pier (Az. 296° 05' 00").
12. Planks are designed for unshored construction.

DATE	ISSUED
	SURVEY PLOTTED BY
	DRAWN BY
	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

ORIGINAL PLAN

NOTE BOOK

No.

2	9/10/21	Revised Callouts
	DATE	REVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PLANK SECTION AND NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

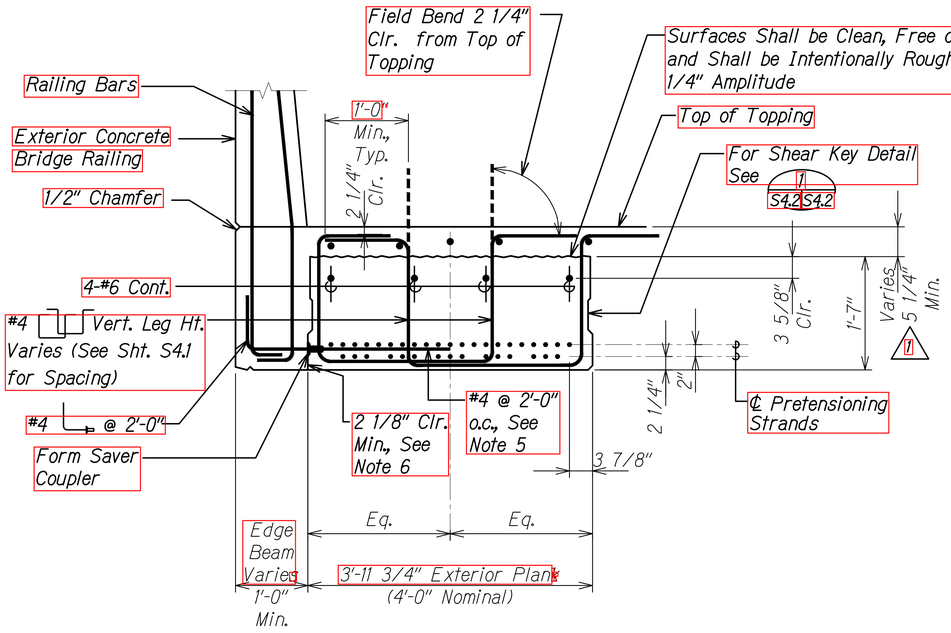
Scale: As Noted Date: July 2021

SHEET No. S4.1 OF 5 SHEETS

ADD. 146

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD2\AMP-S0401 PLANK ADD1-2.DWG PLOT TIME: 09-09-21 7:03 PM

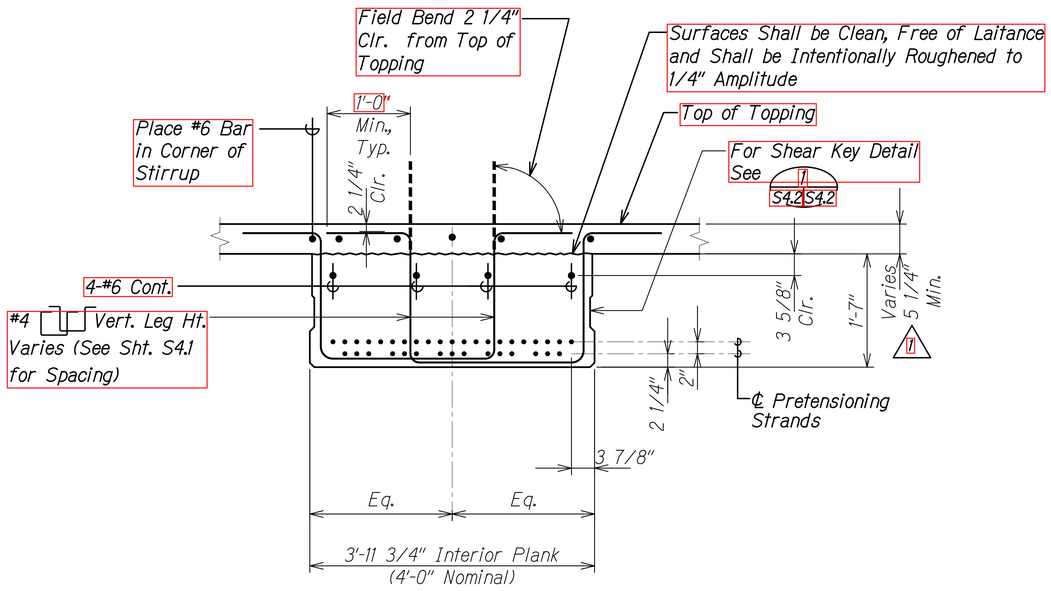
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 147	295



EXTERIOR PLANK (A)

Scale: 1" = 1'-0"

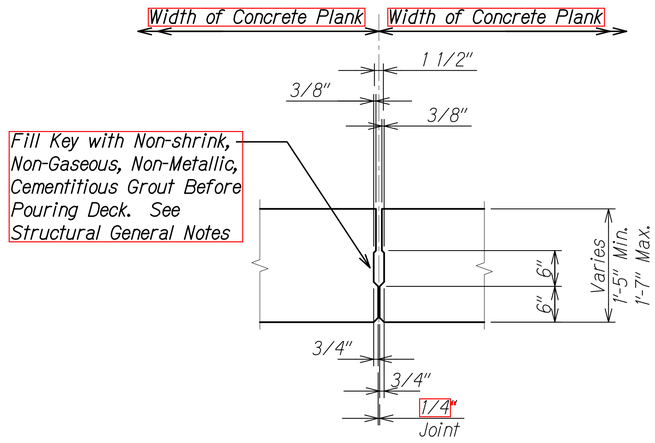
S4.1 S4.2



INTERIOR PLANK (B)

Scale: 1" = 1'-0"

S4.1 S4.2



SHEAR KEY DETAIL (1)

Scale: 1" = 1'-0"

S4.2 S4.2

S4.3

Notes:

1. See sheet S3.1 for topping reinforcing.
2. For location of stirrups, see sheet S4.1.
3. Adjacent planks not shown for clarity.
4. #5 ▭ not shown for clarity.
5. #4 ⊓ bars to be placed tight against bottom side of strands.
6. Clearance shall be taken to the edge of the formsaver mounting plate.

	DATE	REVISION
2	9/10/21	Revised Callout
1	8/30/21	Revised Dimensions

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANK SECTIONS AND DETAIL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS — LICENSED PROFESSIONAL ENGINEER — NO. 17097-S — HAWAII, U.S.A.

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DATE

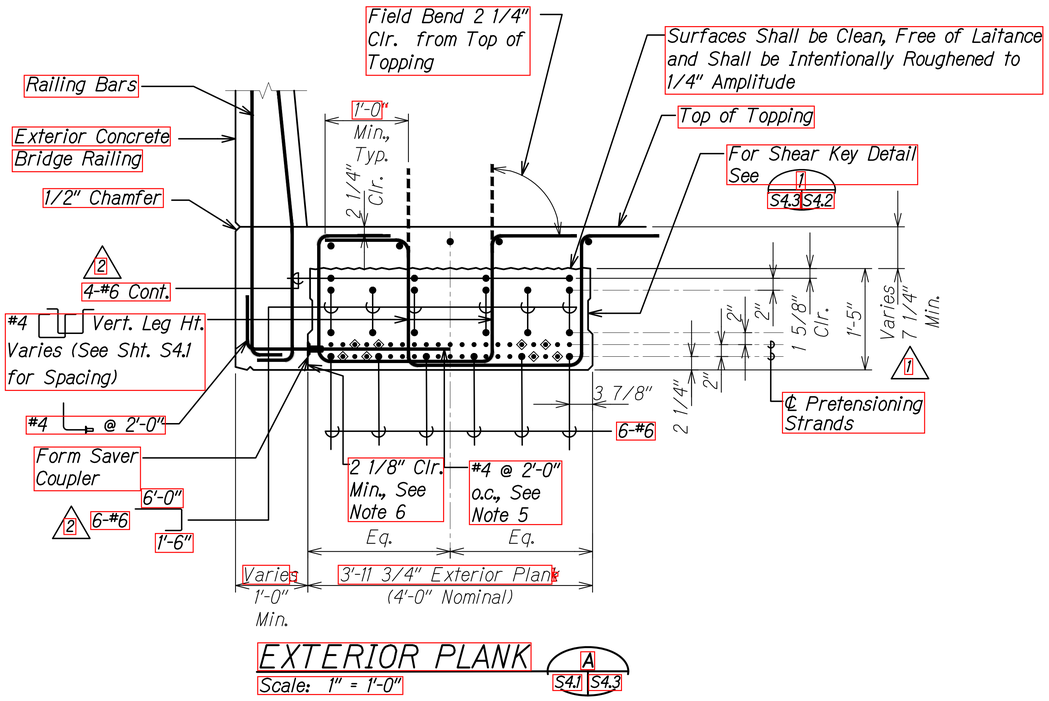
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HW\01 CAD\09-09-21 ADD\ANP-S040 PLANK ADD1-2.DWG PLOT TIME: 09-09-21, 3:53 PM)

SHEET No. S4.2 OF 5 SHEETS

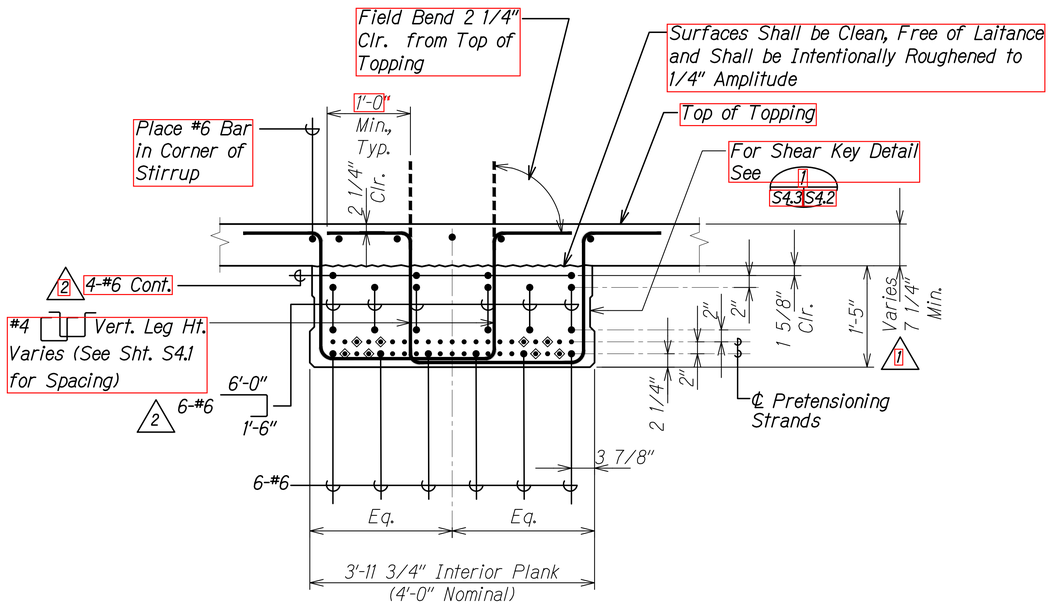
ADD. 147

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 148	295



EXTERIOR PLANK (A) S4.1 S4.3

Scale: 1" = 1'-0"



INTERIOR PLANK (B) S4.1 S4.3

Scale: 1" = 1'-0"

Legend for Int. & Ext. Planks:

◈ Mask strands 6'-0" from ends

Notes:

1. See sheet S3.1 for topping reinforcing.
2. For location of stirrups, see sheet S4.1.
3. Adjacent planks not shown for clarity.
4. #5 ▭ not shown for clarity.
5. 2 #4 ⊓ to be placed tight against bottom side of strands.
6. Clearance shall be taken to the edge of the formsaver mounting plate.

	DATE	REVISION
2	9/10/21	Revised Callouts
1	8/30/21	Revised Dimensions

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANK SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS — LICENSED PROFESSIONAL ENGINEER — NO. 17097-S — HAWAII, U.S.A.

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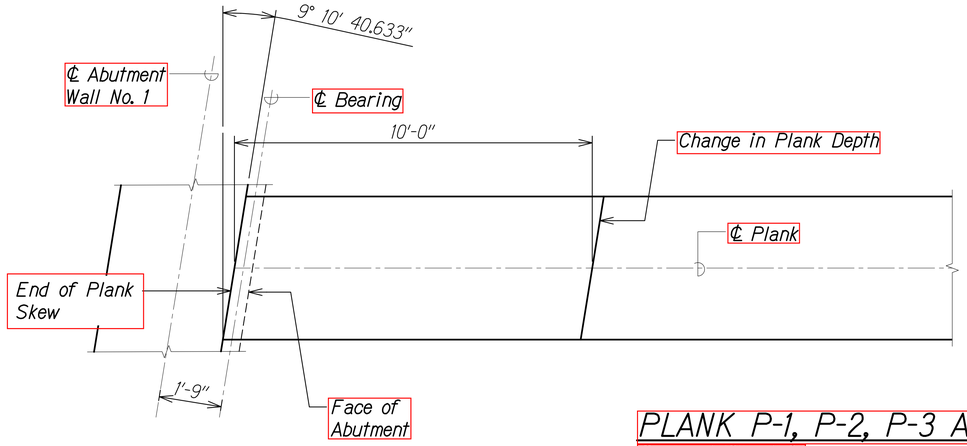
SHEET No. S4.3 OF 5 SHEETS

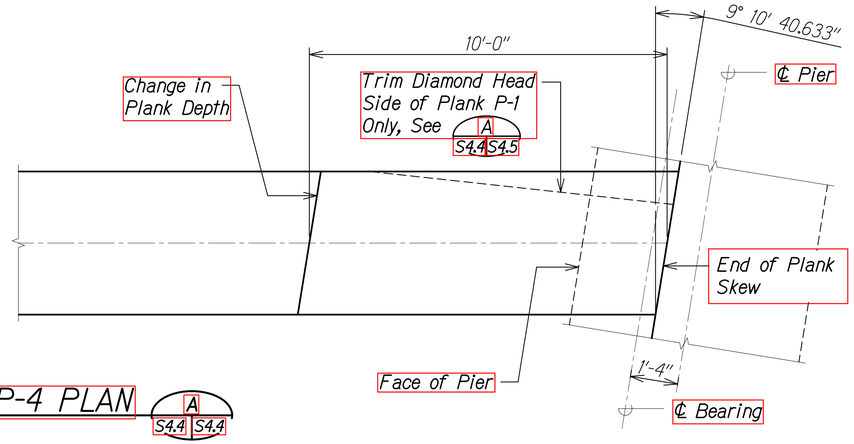
ADD. 148

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGN BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\ANP-S0403 PLANK ADD1-2.DWG PLOT TIME: 09-09-21, 7:04 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	149	295

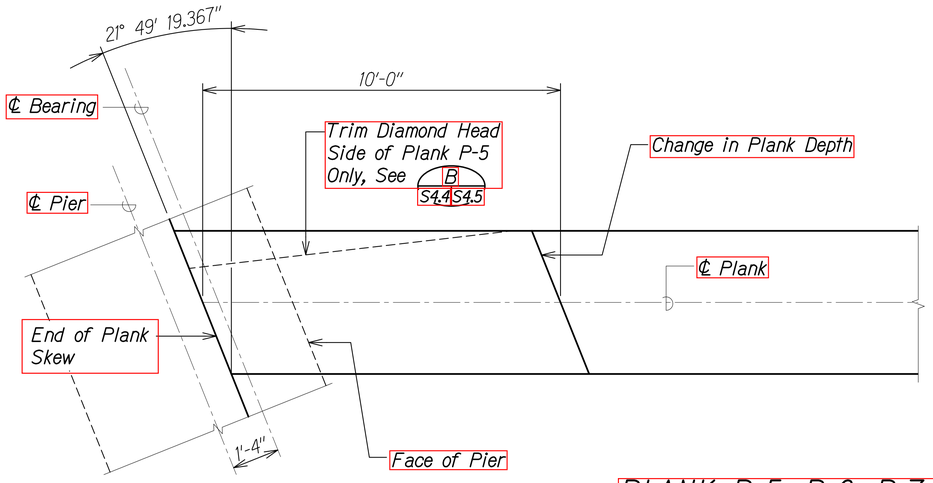


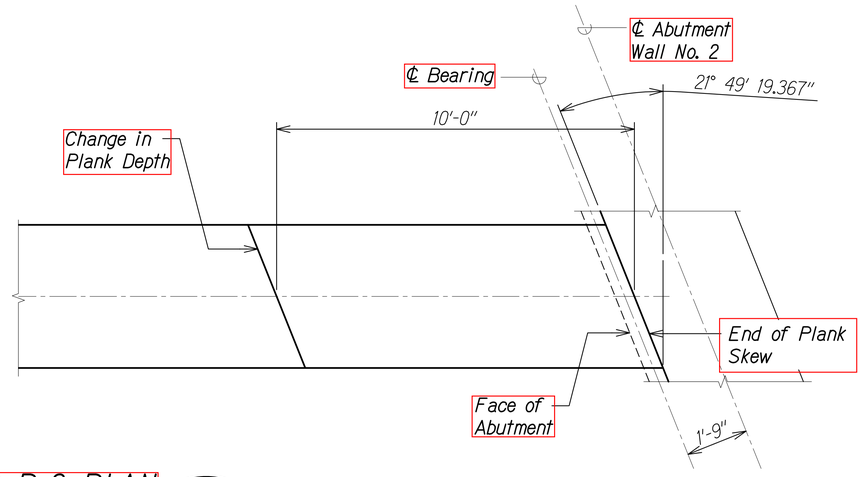


PLANK P-1, P-2, P-3 AND P-4 PLAN

A S4.4 S4.4

Scale: 1/2" = 1'-0"





PLANK P-5, P-6, P-7 AND P-8 PLAN

A S4.4 S4.4

Scale: 1/2" = 1'-0"

DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN

NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\OD CD PROJECTS\20-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0404 PLANK.DWG PLOT TIME: 08-04-21, 9:50 AM

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Stephen Peters 4-30-22

SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

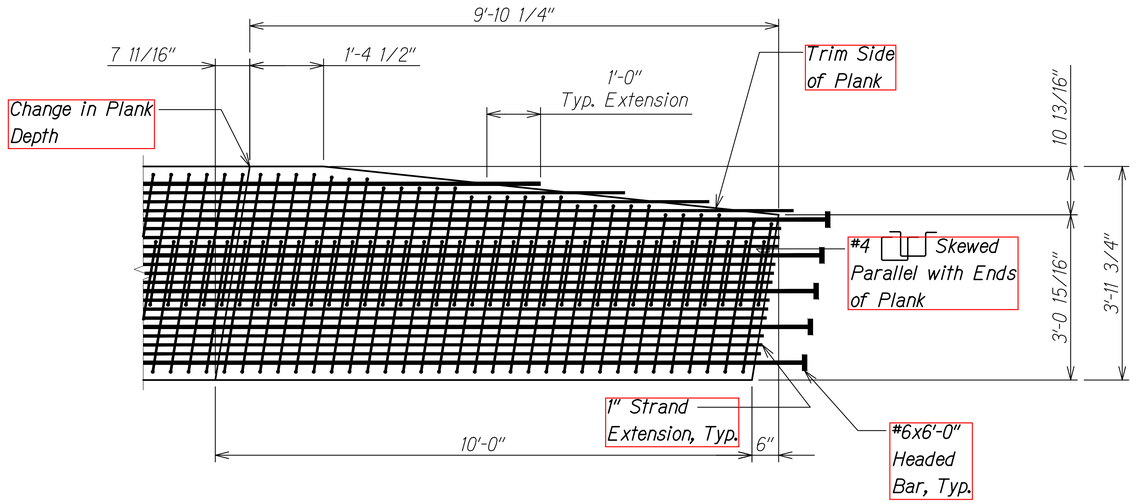
PLANK PLANS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S4.4 OF 5 SHEETS

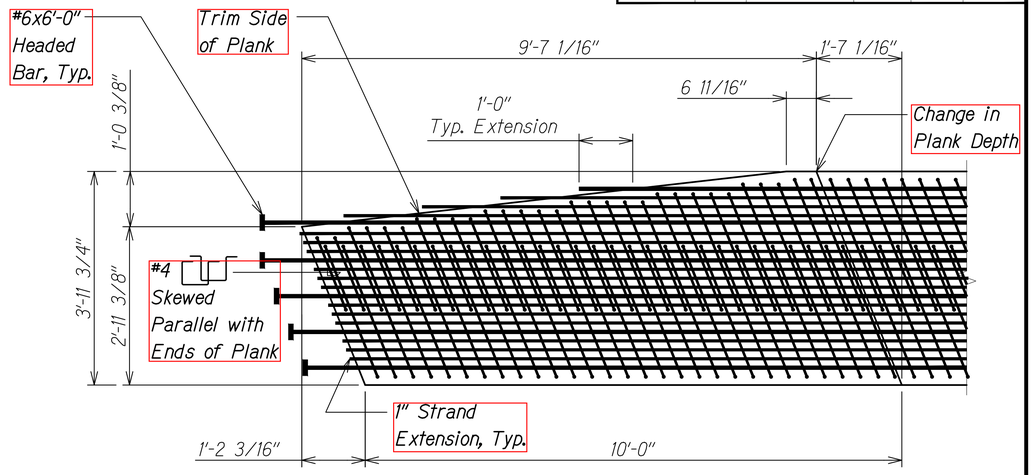
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 150	295



PLANK P-1 DETAIL PLAN AT PIER

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

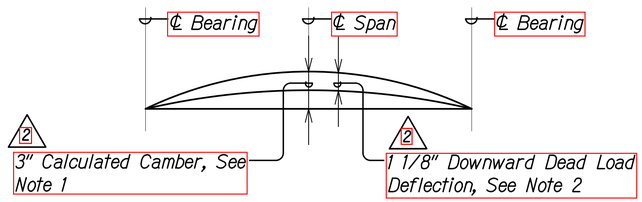
A S4.4 S4.5



PLANK P-5 DETAIL PLAN AT PIER

Scale: 1/2" = 1'-0"

B S4.4 S4.5



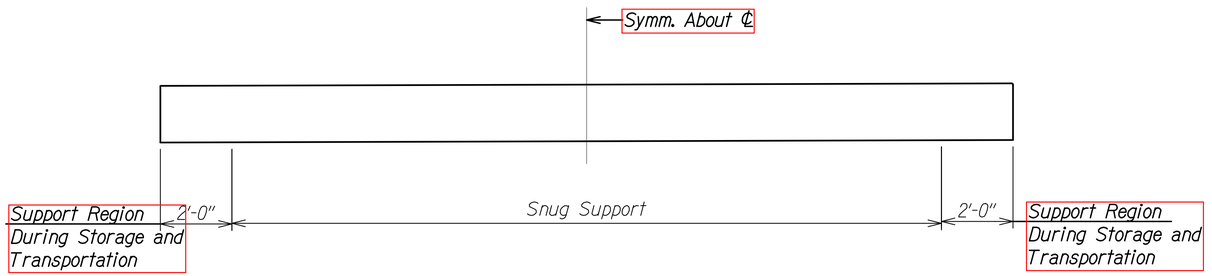
CAMBER AND DEFLECTION NOTES:

2

1. The calculated camber at 60-days includes the effect of the prestress force and the weight of the plank. Positive values shown for calculated camber indicate a net upward deflection. The calculated camber value has been multiplied by creep factors to approximate the effect of camber growth and concrete creep. The actual camber shall not exceed the calculated camber by more than 1/2". Otherwise, plank will be rejected.
2. Dead load deflection is due to weight of the topping.
3. All cambers and deflections are in inches.

PLANK CAMBER AND TOPPING DEFLECTION DIAGRAM

Not to Scale



SUPPORT AFTER PRETENSIONING

Not to Scale

C S4.5 S4.5

2	9/10/21	Revised Camber Callouts and Notes
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANK DETAILS, CAMBER DIAGRAM, AND SUPPORT SCHEME

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SHEET No. S4.5 OF 5 SHEETS

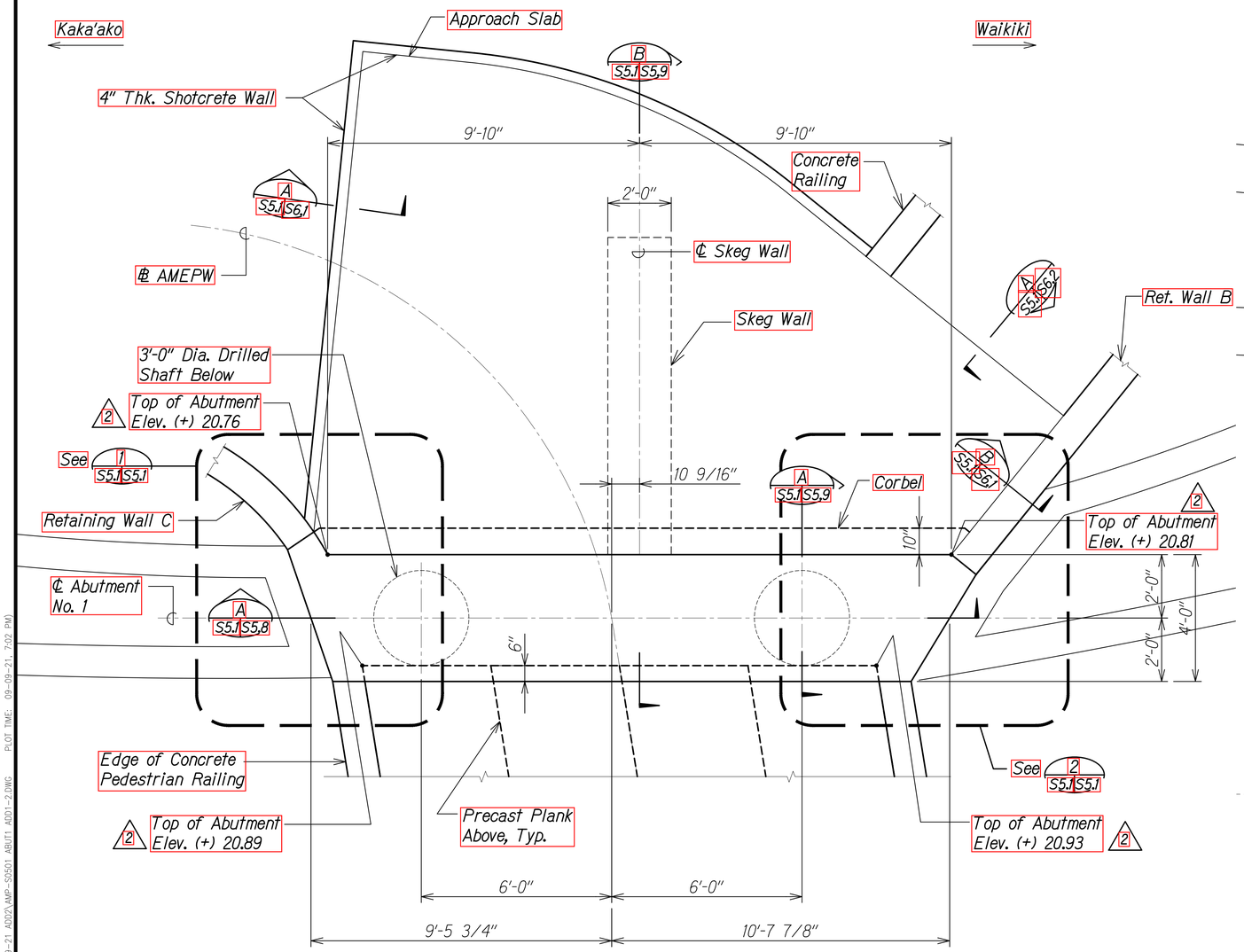
ADD. 150

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

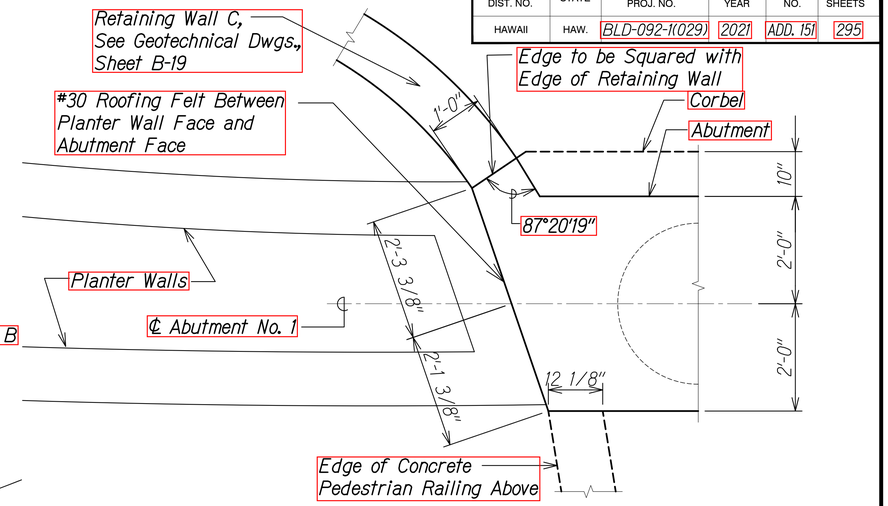
DRAWING NAME: Z:\JOB ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S04S5 CAMBER ADD2.DWG PLOT TIME: 09-09-21, 7:02 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 151	295



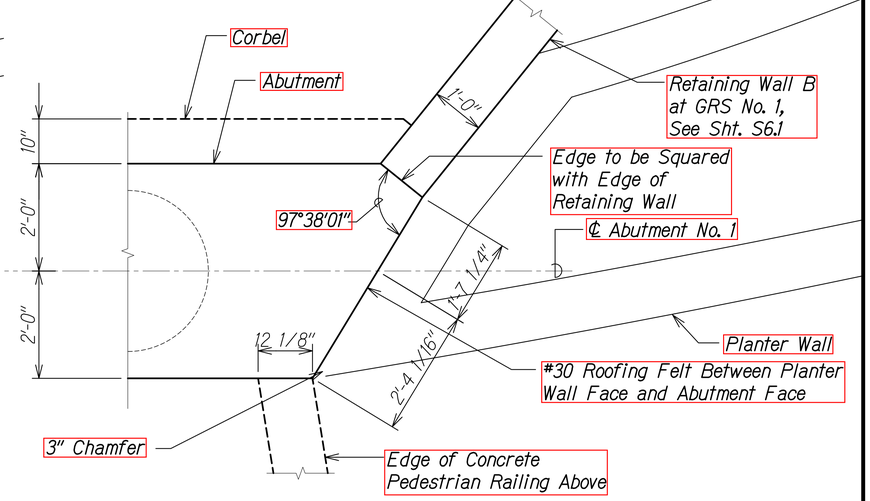
ABUTMENT NO. 1 PLAN

Scale: 1/2" = 1'-0" — A S5.1 S5.1



ABUTMENT NO. 1 DETAIL PLAN

Scale: 3/4" = 1'-0" — 1 S5.1 S5.1



ABUTMENT NO. 1 DETAIL PLAN

Scale: 3/4" = 1'-0" — 2 S5.1 S5.1

DATE	REVISION
9/10/21	Added Elev. Callouts

SURVEY PLOTTED BY
DRAWN BY
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QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S ★ HAWAII, U.S.A.

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SIGNATURE — 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1 PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

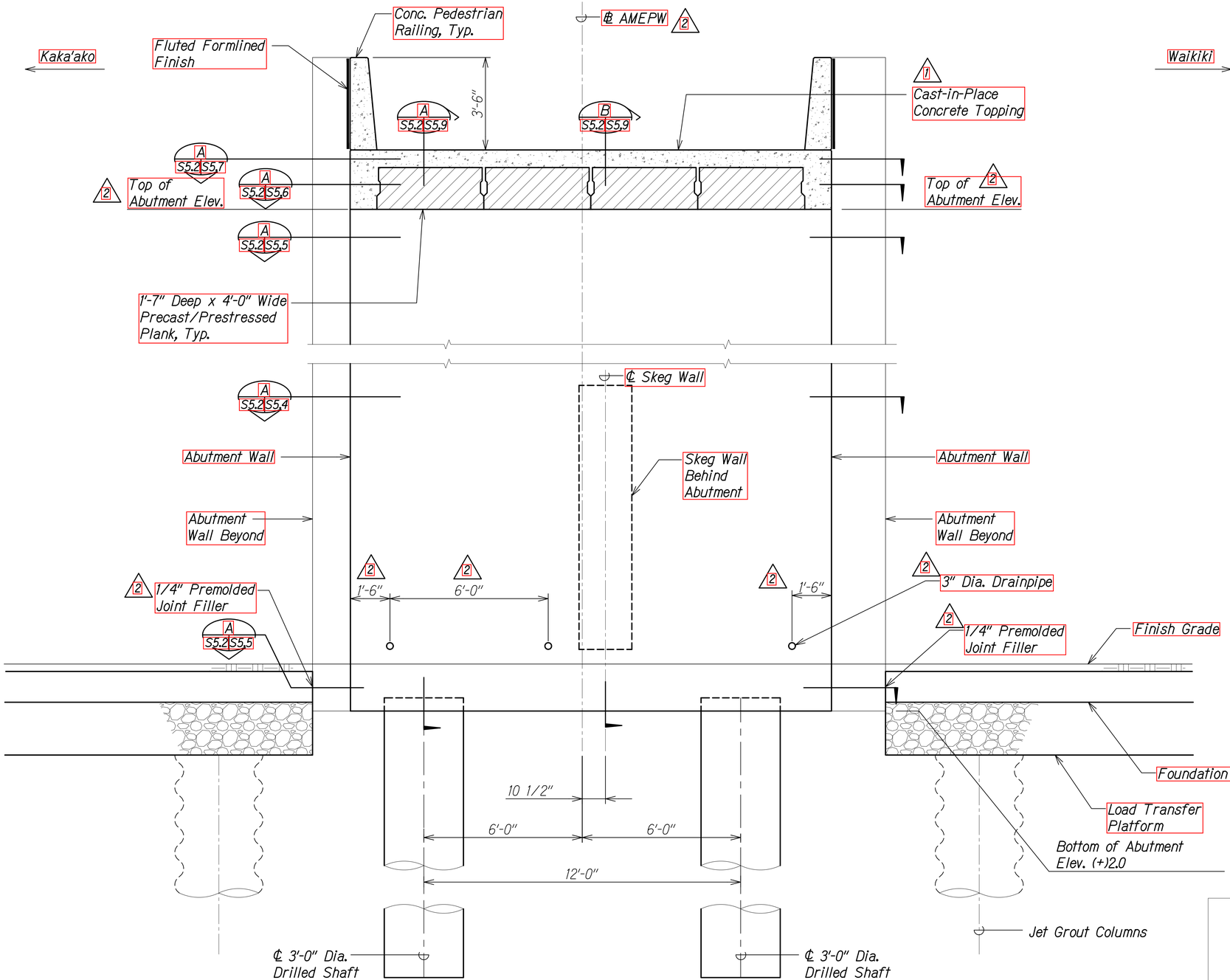
Scale: As Noted — Date: July 2021

SHEET No. S5.1 OF 19 SHEETS

ADD. 151

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HHA\01 CAD\09-09-21 ADD2\MP-S0501 ABUT1 ADD1-2.DWG PLOT TIME: 09-09-21, 7:02 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 152	295



ABUTMENT NO. 1 ELEVATION

Scale: 1/2" = 1'-0"

A S5.2 S5.2

DATE	REVISION
2 9/10/21	Revised Callouts and Added Dimensions
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1 ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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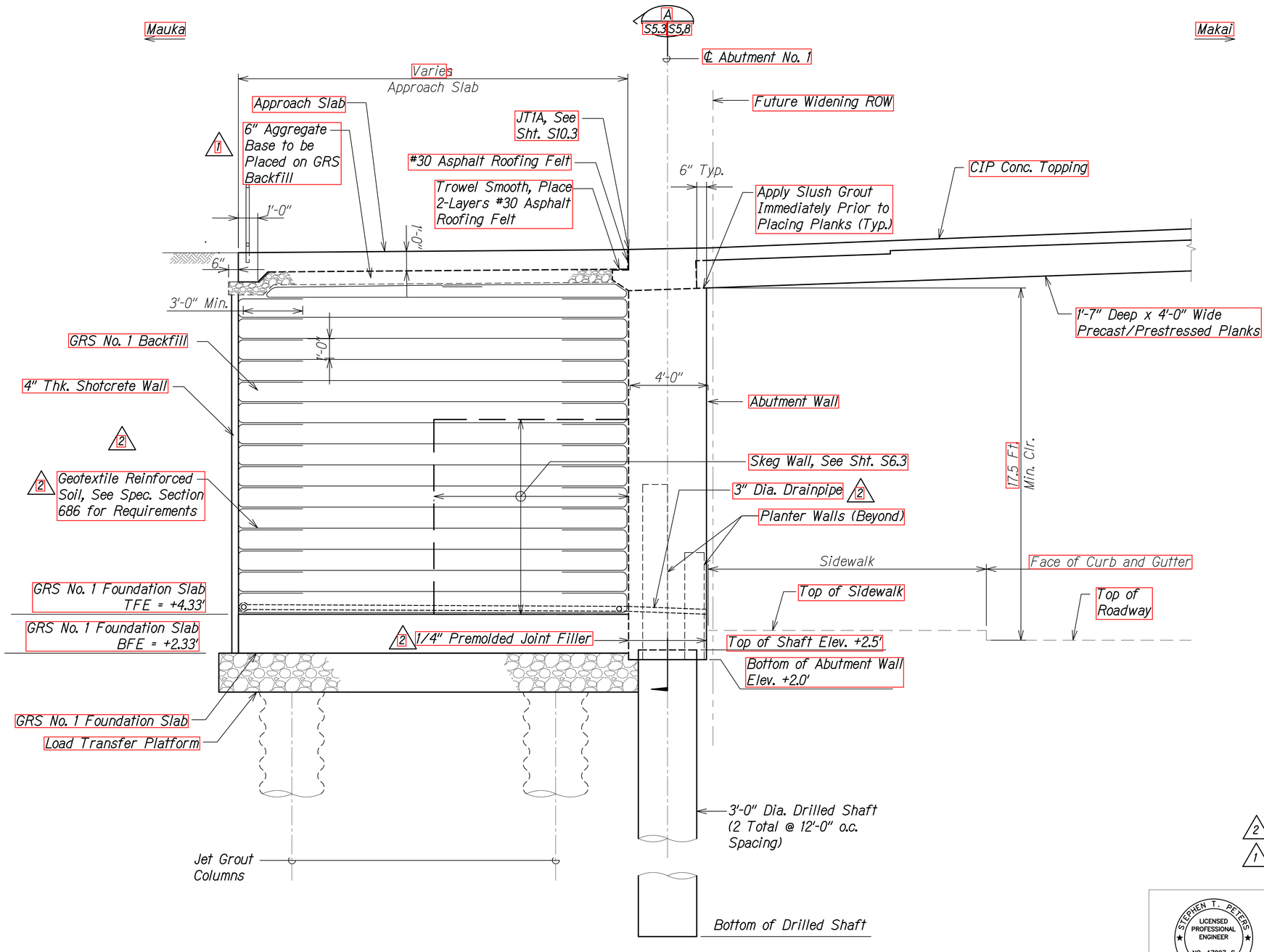
SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\09-09-21 ADD2\MP-S2501 ABUT1 ADD1-2.DWG PLOT TIME: 09-08-21, 7:08 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 153	295



SECTION AT ABUTMENT NO. 1

Scale: 3/8" = 1'-0"

A S2.2 S5.3

2	9/10/21	Revised Callouts
1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1 SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

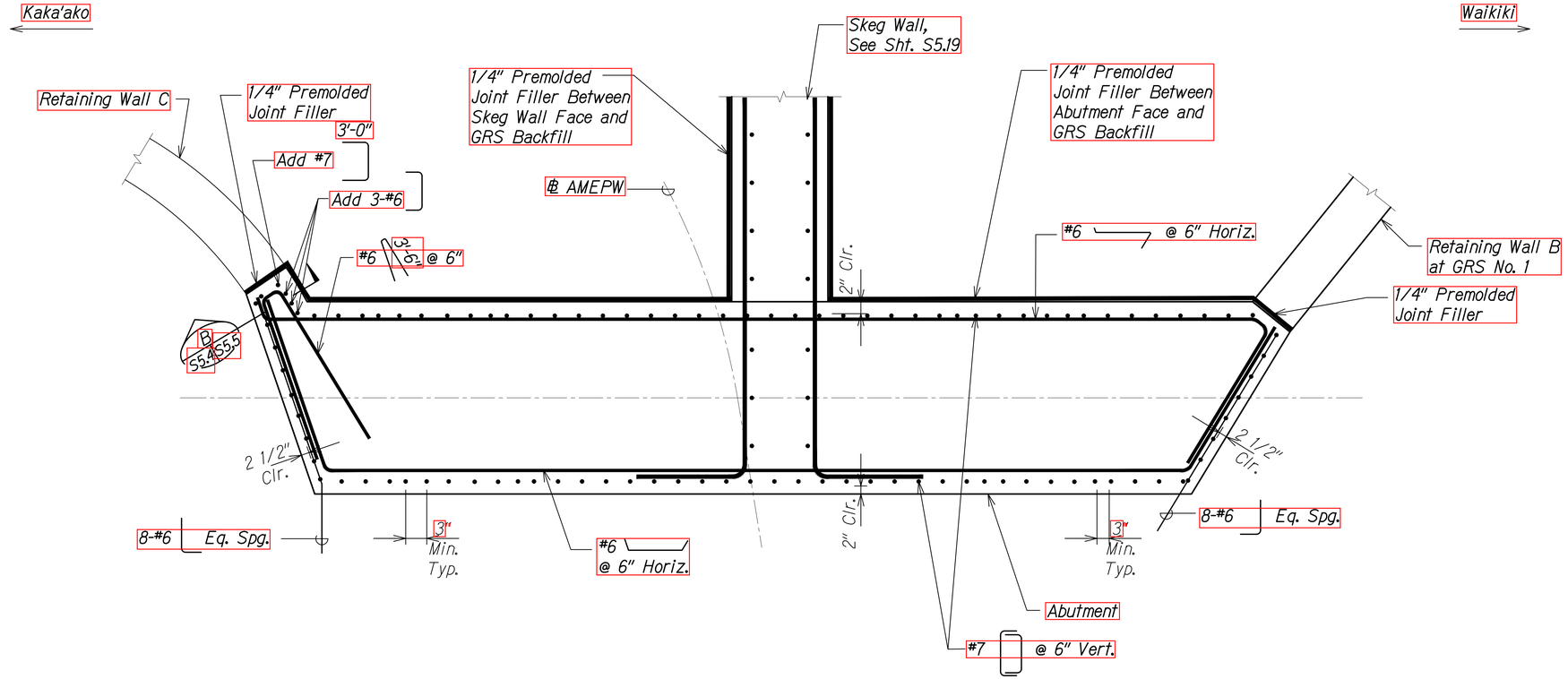
SHEET No. S5.3 OF 19 SHEETS

ADD. 153

DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\09-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD2\AMP-S9501 ABUT1 ADD1-2.DWG PLOT TIME: 09-08-21, 7:08 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	154	295



ABUTMENT NO. 1 MID-HEIGHT REINFORCING PLAN

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

A S5.2 S5.4

ORIGINAL PLAN	SURVEY PLOTTED BY
	DRAWN BY
NOTE BOOK	TRACED BY
	DESIGNED BY
No.	QUANTITIES BY
	CHECKED BY

DATE

DRAWING NAME: Z:\OD ONGONGO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0504 ABUT1.DWG PLOT TIME 08-03-21, 7:35 PM

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NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

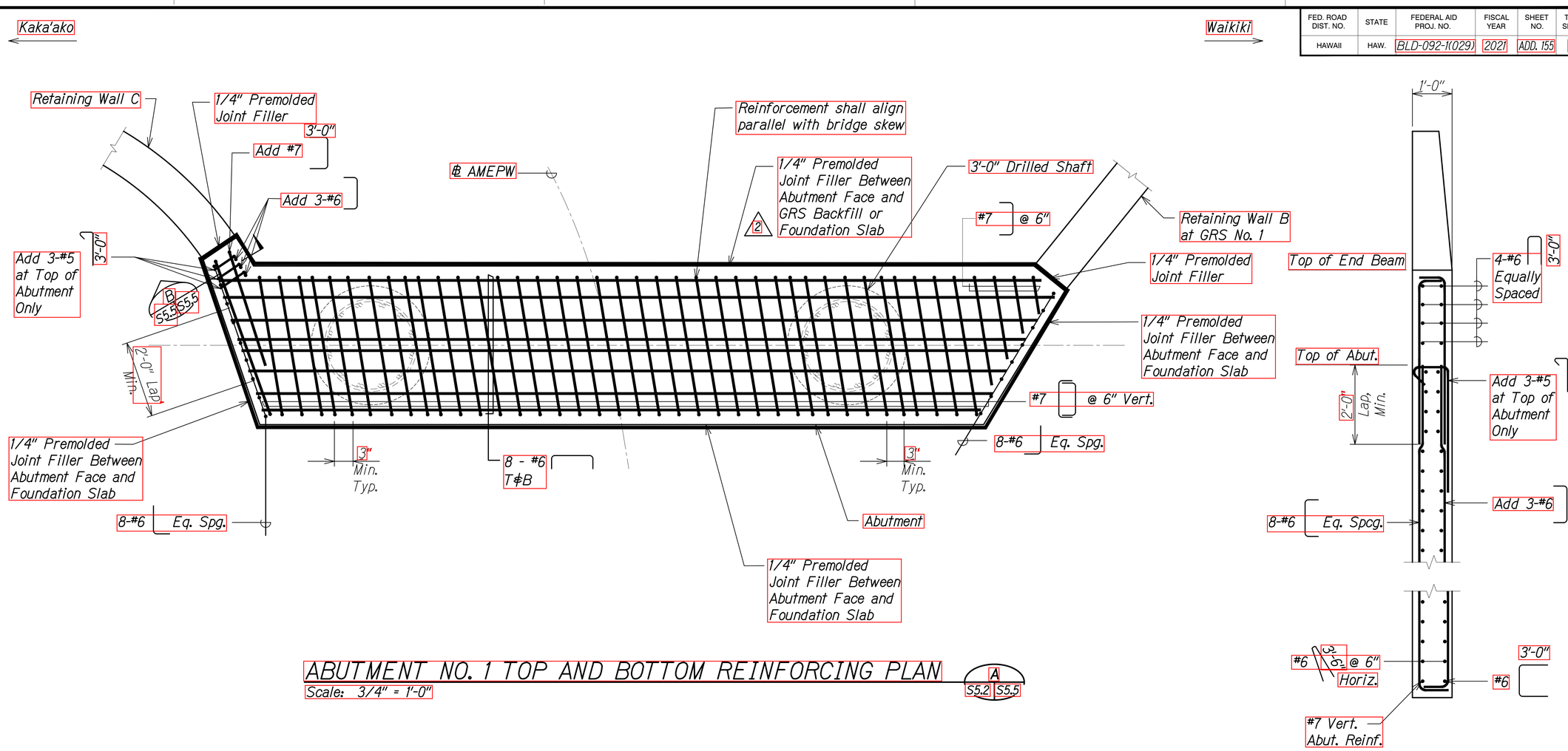
ABUTMENT NO. 1
REINFORCING PLAN - MID-HEIGHT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.4 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 155	295



ABUTMENT NO. 1 TOP AND BOTTOM REINFORCING PLAN

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

A S5.2 S5.5

SECTION

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

B S5.4 S5.5

S5.5, S5.6, S5.7

2	9/10/21	Revised Callout
	DATE	REVISION

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1
REINFORCING PLAN - TOP & BOTTOM

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

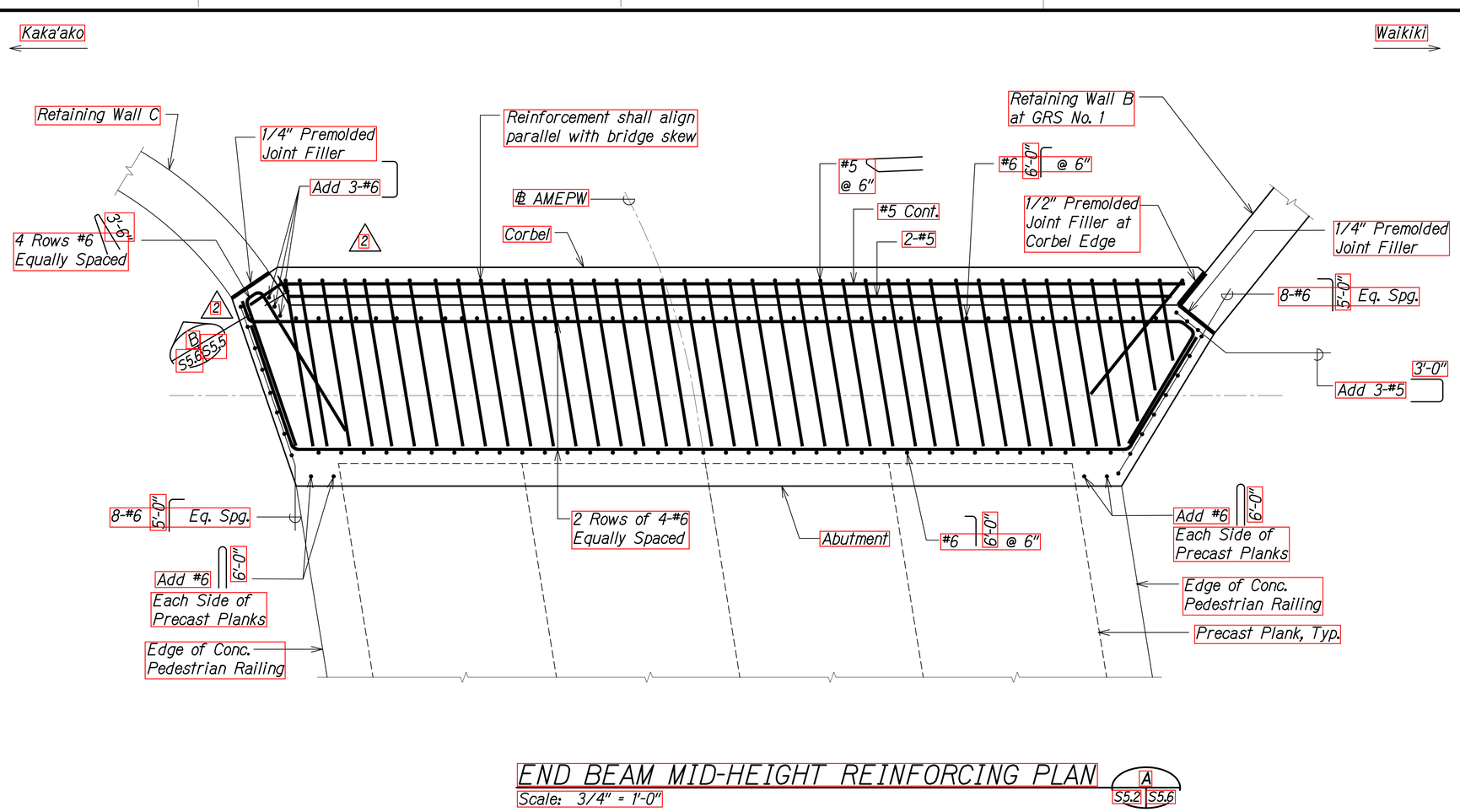
Scale: As Noted Date: July 2021

SHEET No. S5.5 OF 19 SHEETS

ADD. 155

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HHA\01 CAD\09-09-21 ADD2\AMP-S5564 ABUT1 ADD1-2.DWG PLOT TIME: 09-08-21, 7:06 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 156	295



END BEAM MID-HEIGHT REINFORCING PLAN

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

A
S5.2 S5.6

2	9/10/21	Deleted Callout and Revised Rebar
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1
REINFORCING PLAN - END BEAM MID-HT.

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

SHEET No. S5.6 OF 19 SHEETS

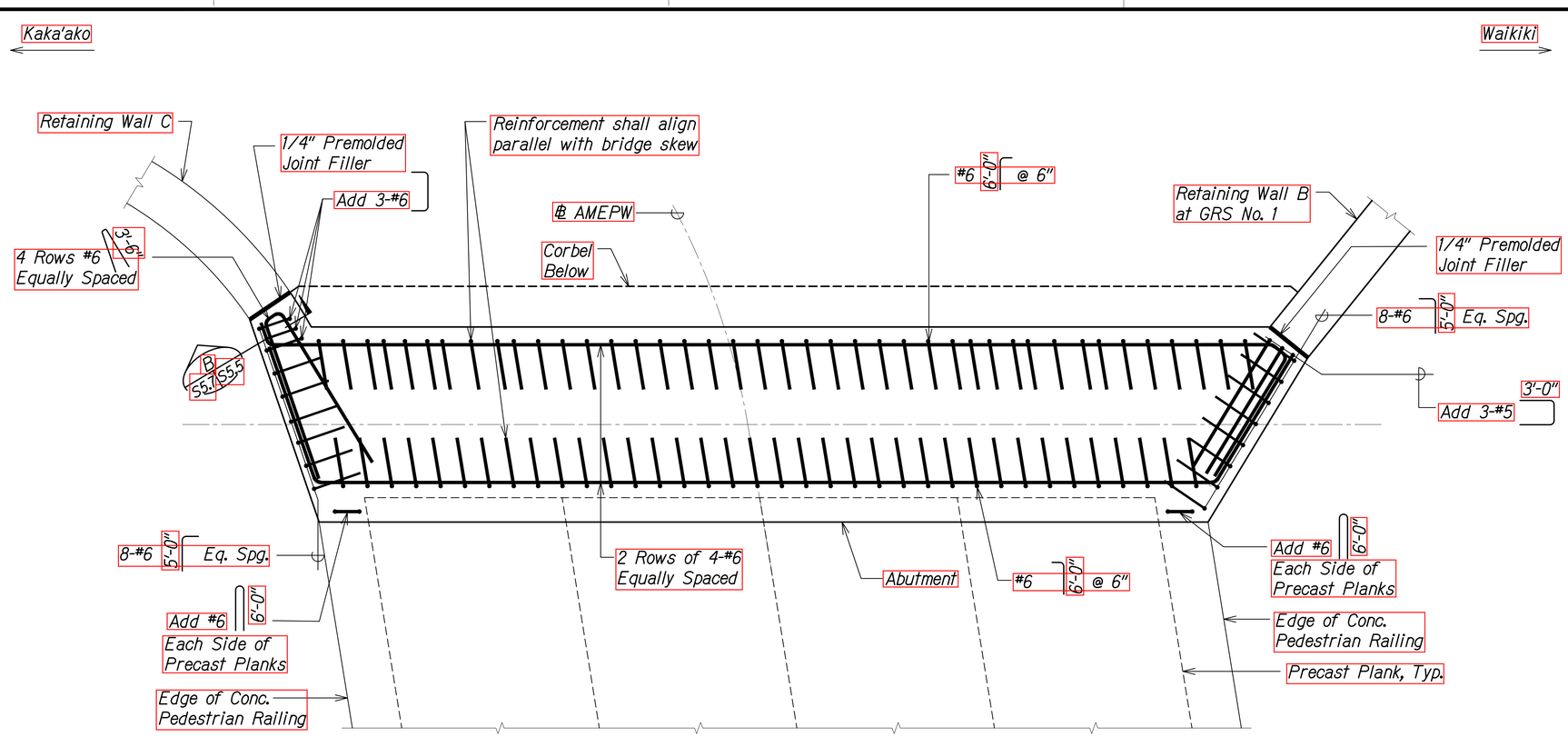
ADD. 156

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

PLOT TIME: 09-08-21, 7:06 PM
DRAWING NAME: Z:\OD ENGING\09-012-ALA MOANA PED BR-HI\01 CAD\09-09-21 ADD\ANP-S5604 ABUT ADD1-2.DWG

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	157	295



END BEAM TOP REINFORCING PLAN

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

A S5.2 S5.7

DRAWING NAME: Z:\AOI ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-29504 ABUT1.DWG PLOT TIME 08-03-21, 7:36 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

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NO. 17097-S
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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

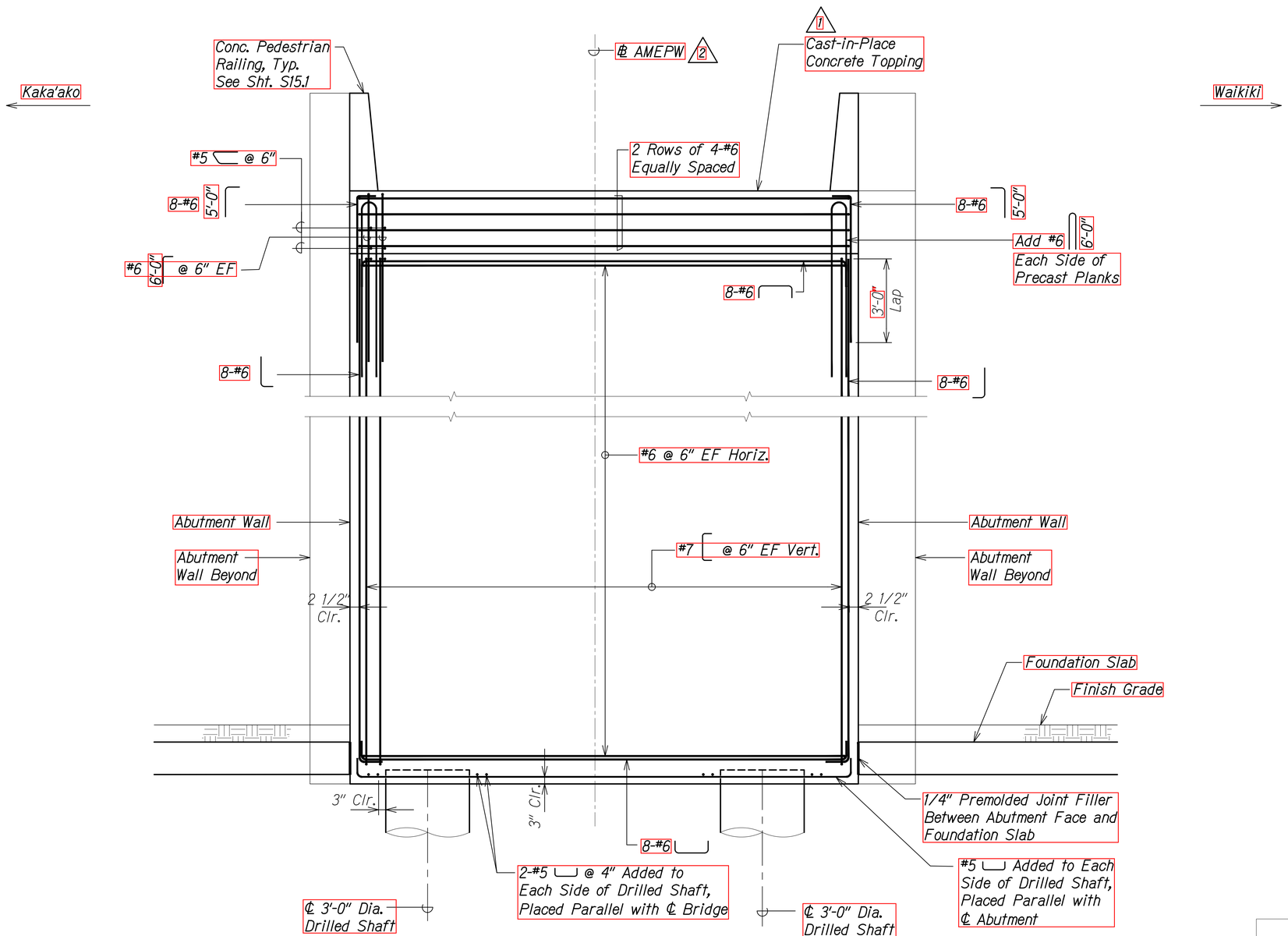
ABUTMENT NO. 1
REINFORCING PLAN - END BEAM TOP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.7 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 158	295



ABUTMENT NO. 1 REINFORCING ELEVATION

Scale: 1/2" = 1'-0"

A S5.1 S5.8 S5.3

	DATE	REVISION
2	9/10/21	Revised Callout
1	8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1 REINFORCING ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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Scale: As Noted Date: July 2021

SHEET No. S5.8 OF 19 SHEETS

ADD. 158

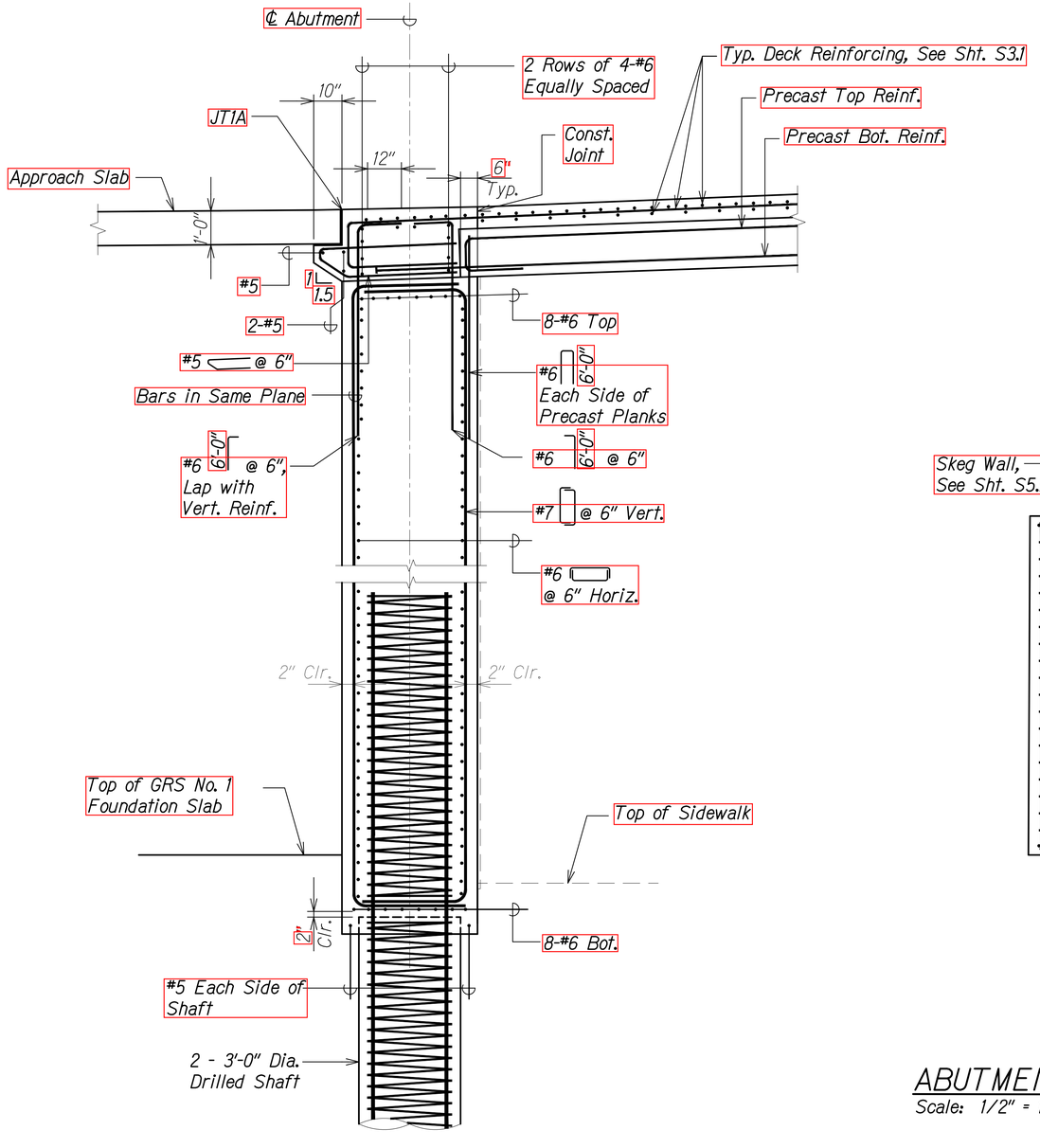
ORIGINAL PLANS | NOTE BOOK | No.

ISSUE DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\ANP-S05a1 ABUT1 ADD1-2.DWG PLOT TIME: 09-08-21, 7:07 PM

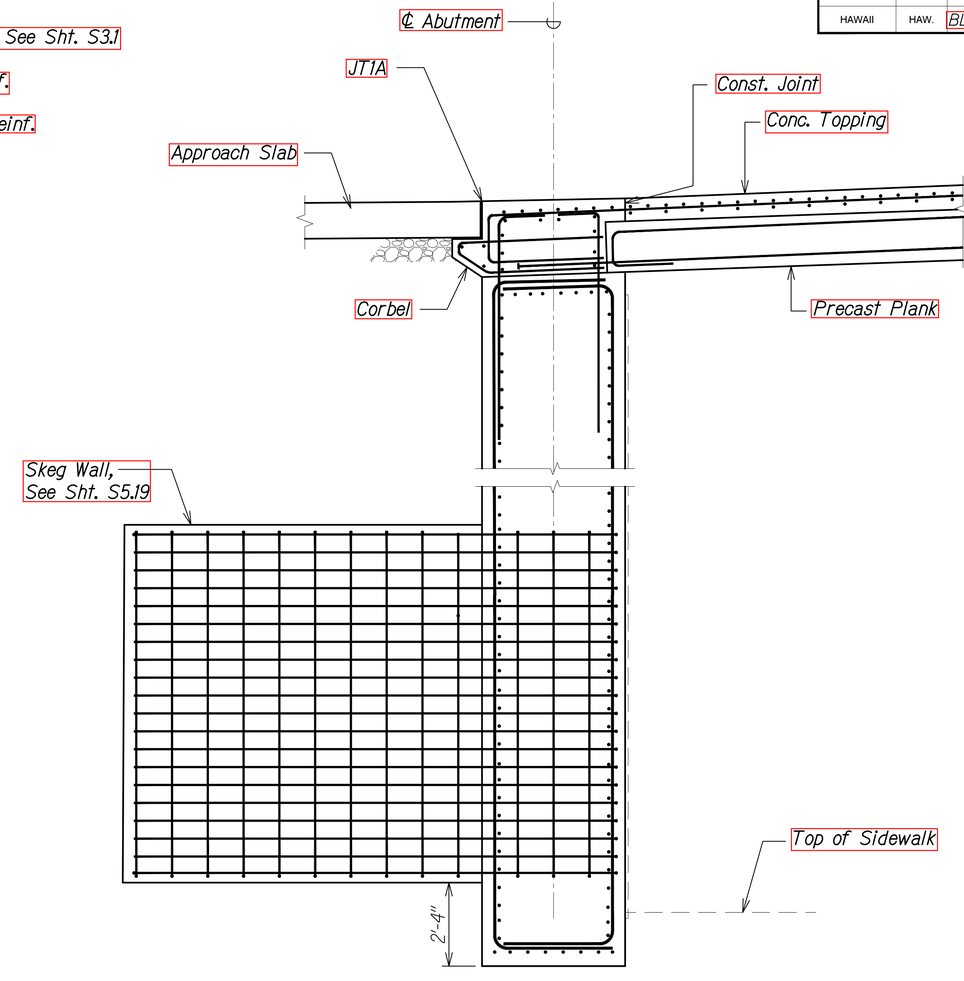
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	159	295



ABUTMENT NO. 1 SECTION AT DRILLED SHAFTS

Scale: 1/2" = 1'-0"

A S5.2 | S5.1 S5.9



ABUTMENT NO. 1 SECTION BETWEEN DRILLED SHAFTS

Scale: 1/2" = 1'-0"

B S5.2 | S5.1 S5.9

DATE						

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HHL01 CAD\08-03-21B BID FINAL NEW XBASES\MP-S0509 ABUT1.DWG PLOT TIME: 08-03-21, 7:36 PW)

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

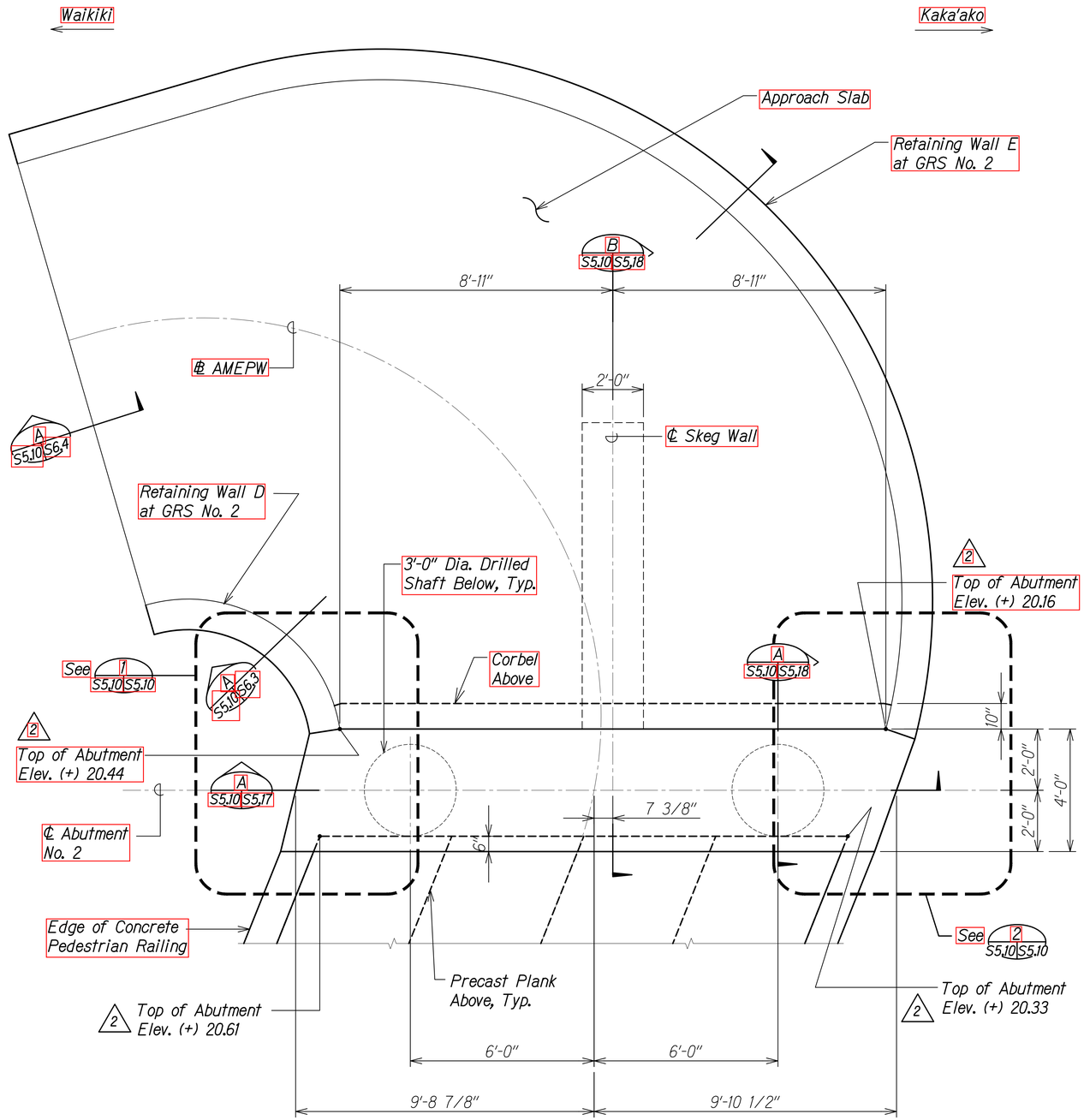
ABUTMENT SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.9 OF 19 SHEETS

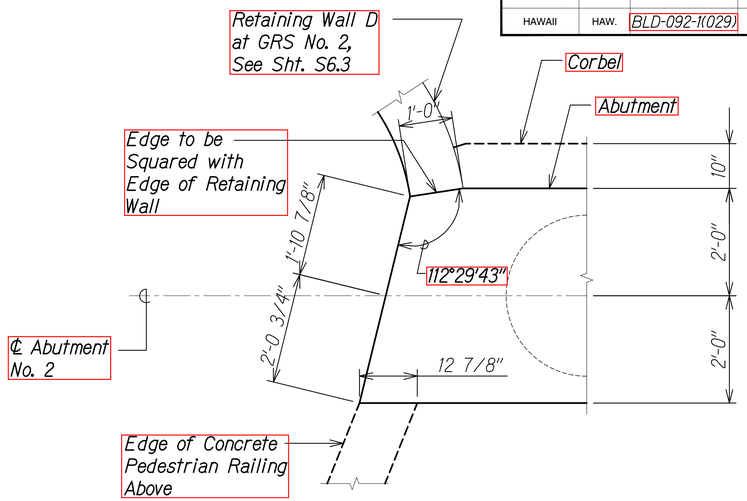
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 160	295



ABUTMENT NO. 2 PLAN

Scale: 1/2" = 1'-0"

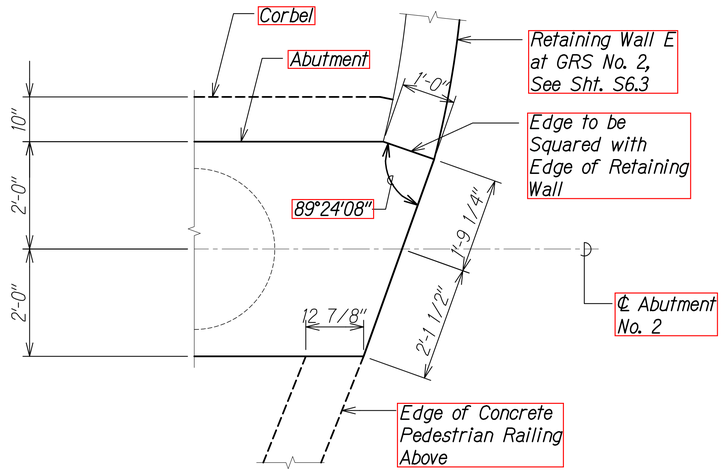
A S5.10 S5.10



ABUTMENT NO. 2 DETAIL PLAN

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

1 S5.10 S5.10



ABUTMENT NO. 2 DETAIL PLAN

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

2 S5.10 S5.10

DATE	REVISION
9/10/21	Added Elev. Callouts

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2 PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

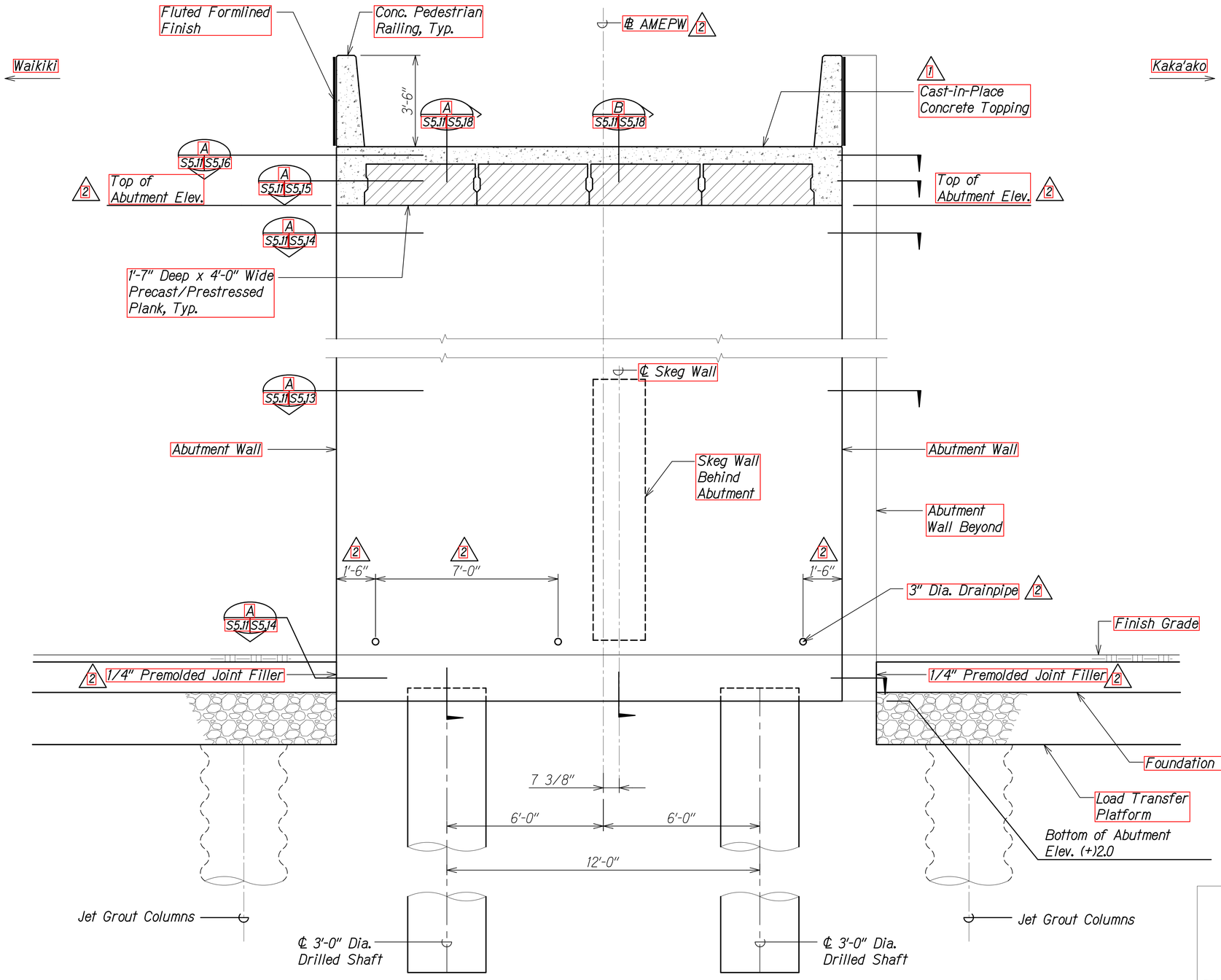
SHEET No. S5.10 OF 19 SHEETS

ADD. 160

ORIGINAL PLAN | NOTE BOOK No.
SURVEY PLOTTED BY
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QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\09-09-21 ADD2\AMP-S5510 ABUT2 ADD1-2.DWG PLOT TIME: 09-09-21, 7:01 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 161	295



ABUTMENT NO. 2 ELEVATION

Scale: 1/2" = 1'-0"

A S5.11 | S5.11

2	9/10/21	Revised Callouts and Added Dimensions
1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2 ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY
DATE

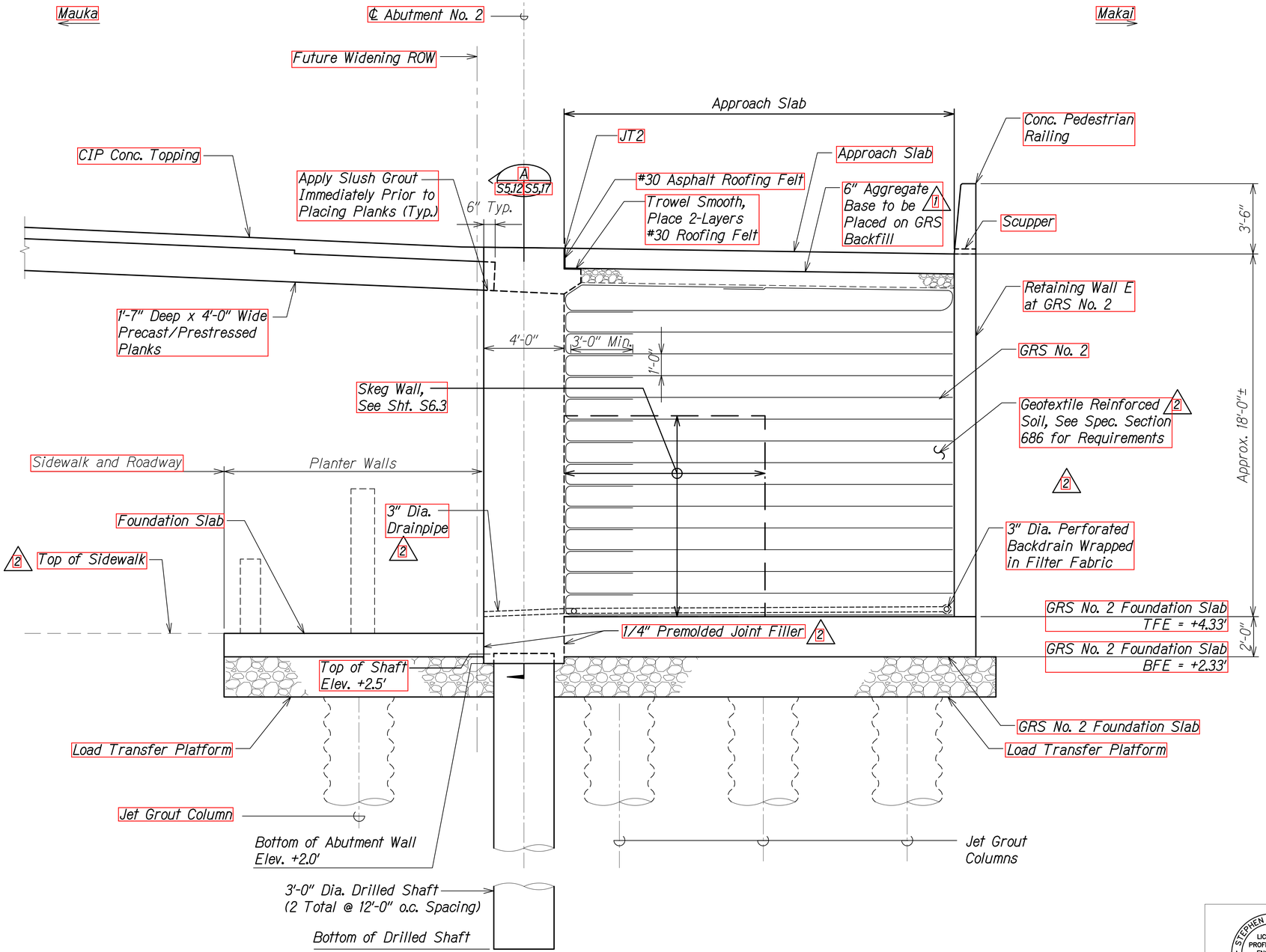
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\ANP-S0510 ABUT2 ADD1-2.DWG PLOT TIME: 09-08-21, 7:55 PM

SHEET No. S5.11 OF 19 SHEETS

ADD. 161

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 162	295



SECTION AT ABUTMENT NO. 2

Scale: 3/8" = 1'-0"

A S2.2 S5.12

DATE	REVISION
9/10/21	Deleted and Revised Callouts
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2 SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

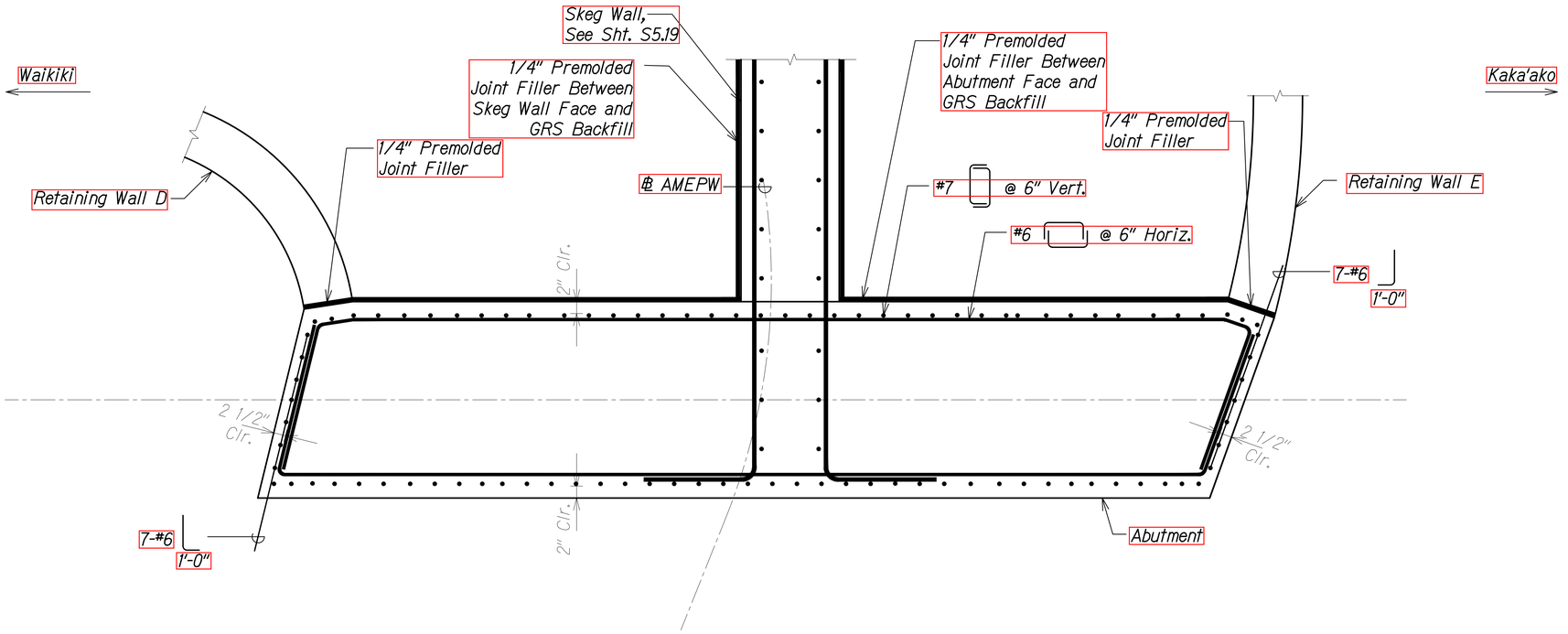
SHEET No. S5.12 OF 19 SHEETS

ADD. 162

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

BRANKIC NAME: ZA\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD2\AMP-S0510 ABUT2 ADD1-2.DWG PLOT TIME: 09-08-21, 7:04 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	163	295



ABUTMENT NO. 2 MID-HEIGHT REINFORCING PLAN

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

A
S5.11 | S5.13

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0513 ABUT2.DWG PLOT TIME: 08-03-21, 7:38 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

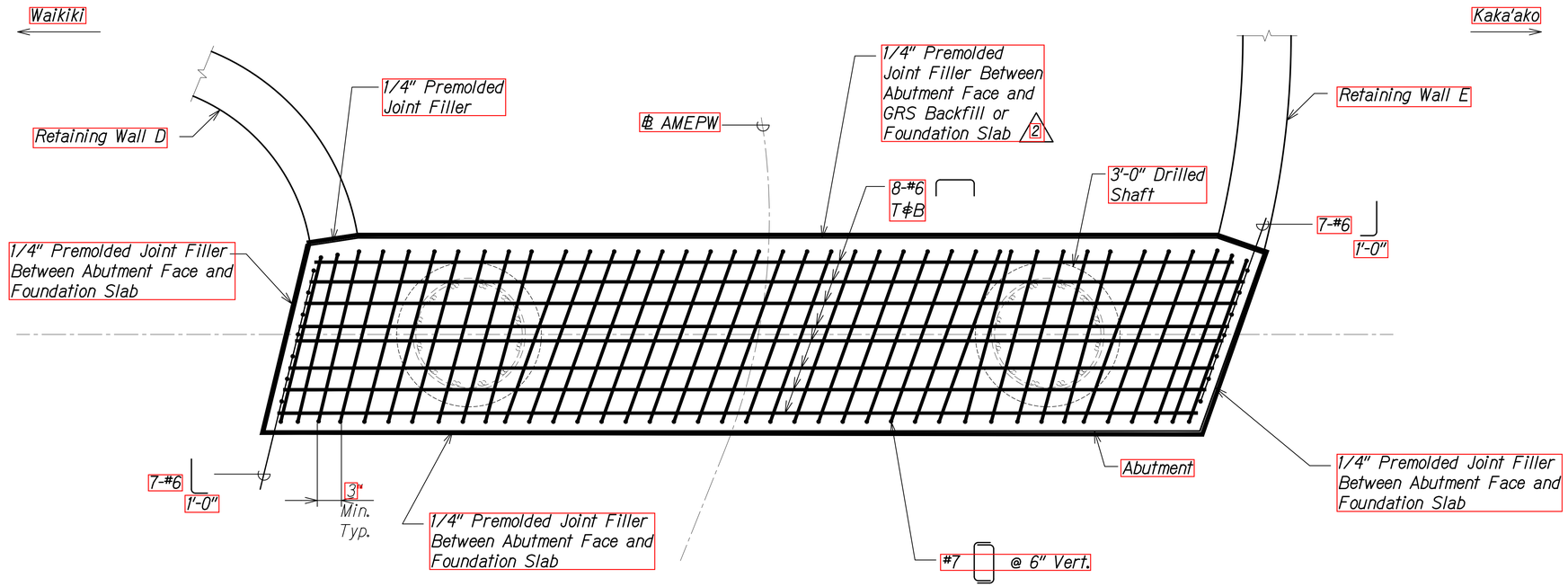
ABUTMENT NO. 2 REINFORCING PLAN - MID-HEIGHT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.13 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 164	295



ABUTMENT NO. 2 TOP AND BOTTOM REINFORCING PLAN

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

A
S5.11 S5.14

2	
9/10/21	Revised Callout
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2
REINFORCING PLAN - TOP & BOTTOM

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

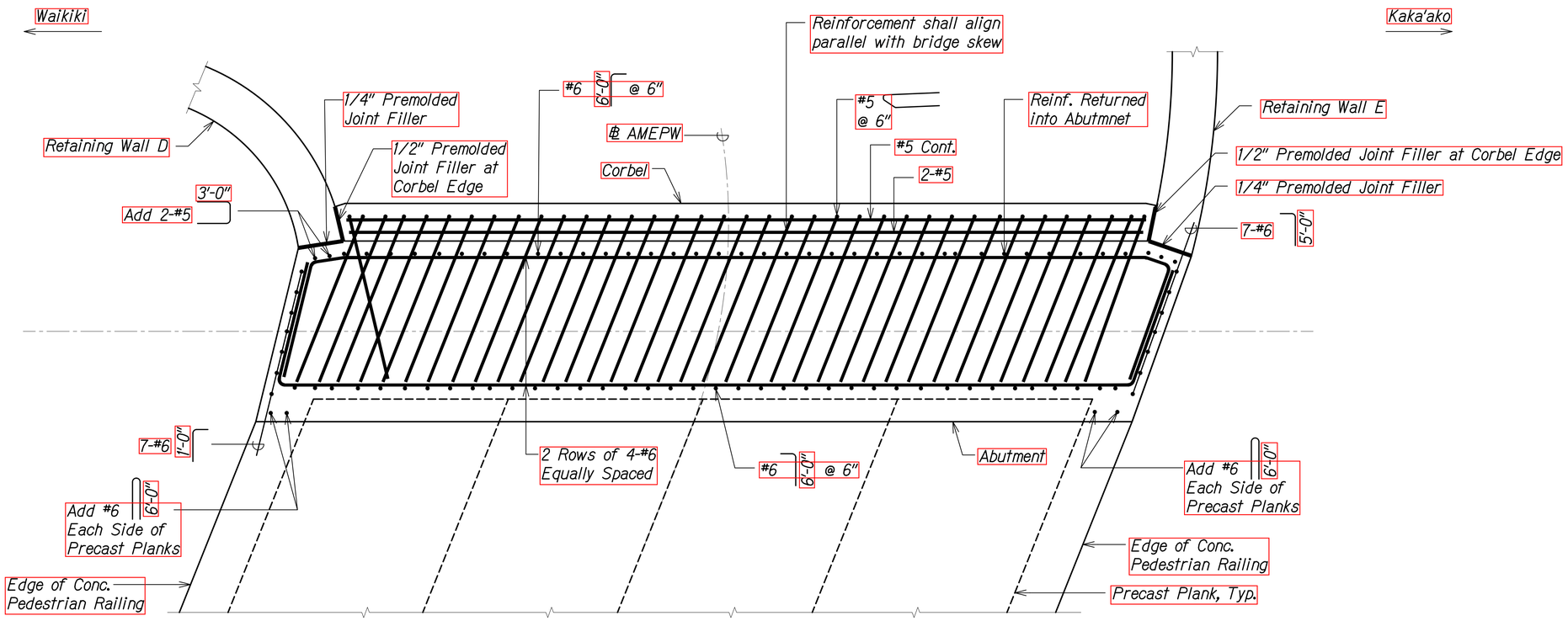
SHEET No. S5.14 OF 19 SHEETS

ADD. 164

ORIGINAL PLAN	DATE	ISSUED
NOTE BOOK	SURVEY PLOTTED BY	
No.	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD DNCONG\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S0513 ABUT2 ADD1-2.DWG PLOT TIME: 09-08-21, 7:03 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	165	295



END BEAM MID-HEIGHT REINFORCING PLAN

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

A S5.11 S5.15

ORIGINAL PLAN	DATE
NOTE BOOK	SURVEY PLOTTED BY
No.	DRAWN BY
	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

STEPHEN T. PETERS
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NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2
REINFORCING PLAN - END BEAM MID-HT.

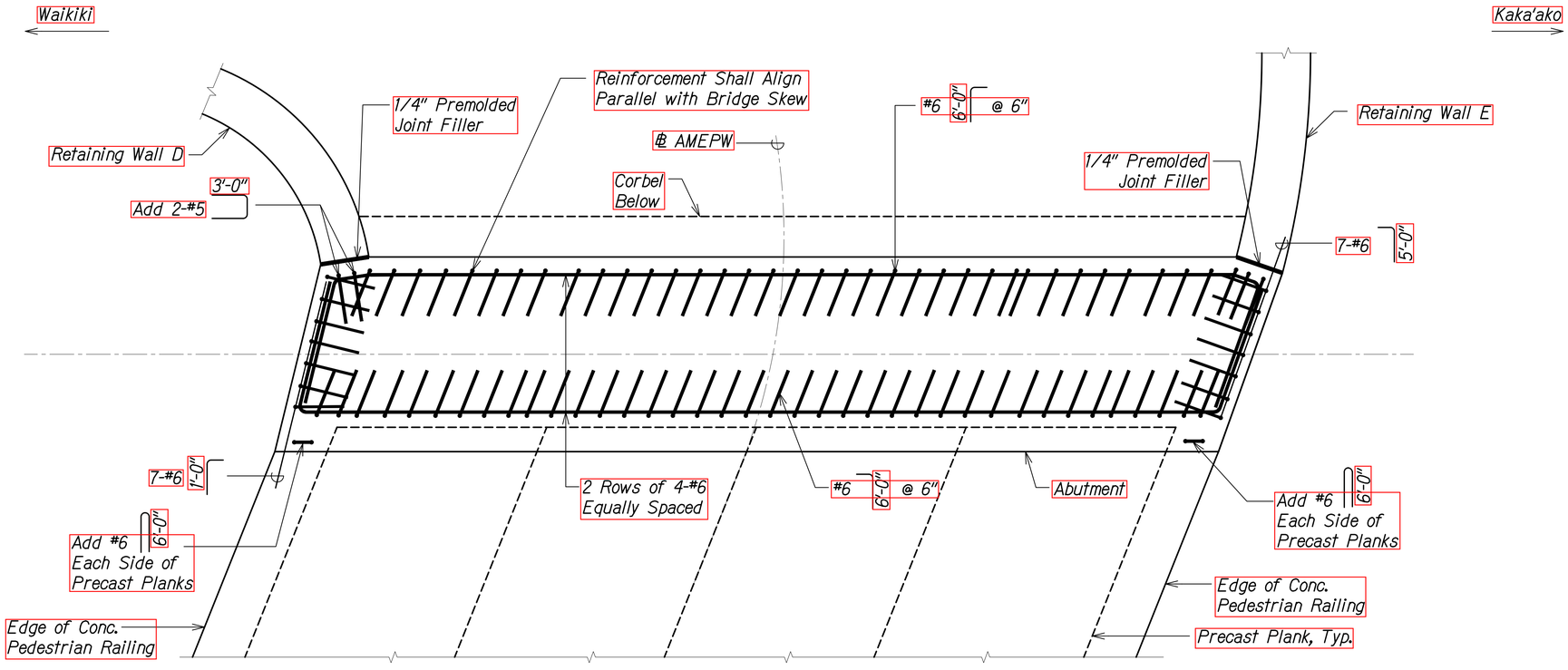
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.15 OF 19 SHEETS

DRAWING NAME: Z:\JOB ONGOING\JOB CB PROJECTS\20-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0513 ABUT2.DWG PLOT TIME: 08-03-21, 7:38 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	166	295



END BEAM TOP REINFORCING PLAN

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

A S5.11 S5.16

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2
REINFORCING PLAN - END BEAM TOP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

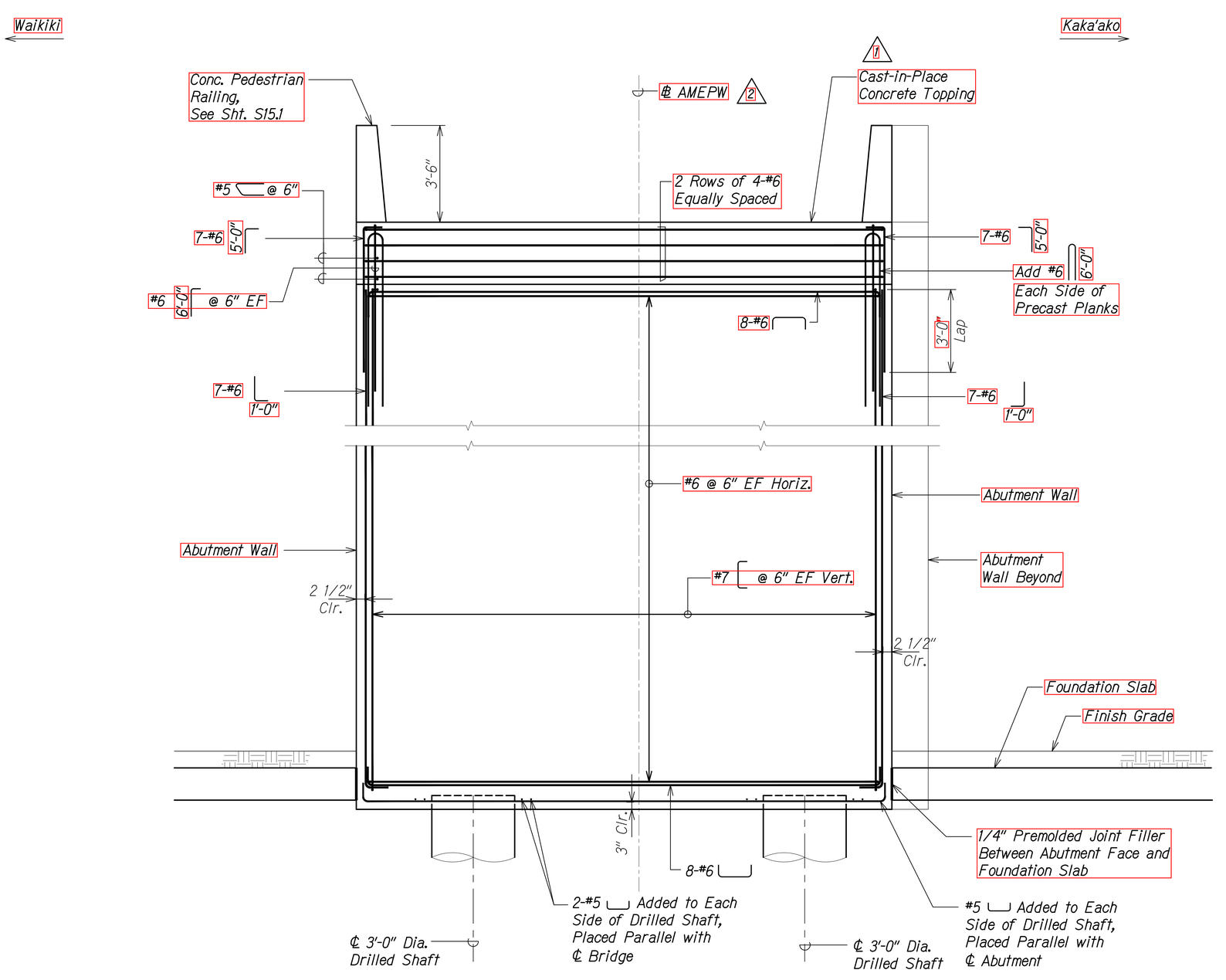
Scale: As Noted Date: July 2021

SHEET No. S5.16 OF 19 SHEETS

166

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW YEAR\E_MAP-S5613 ABUT2.DWG PLOT TIME 08-03-21, 7:39 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 167	295



ABUTMENT NO. 2 REINFORCING ELEVATION

Scale: 1/2" = 1'-0"

A
S5.10 | S5.17
S5.12

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD2\AMP-S5513 ABUT2 ADD1-2.DWG PLOT TIME: 09-08-21, 7:03 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

2	9/10/21	Revised Callout
1	8/30/21	Revised Note
	DATE	REVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2 REINFORCING ELEVATION

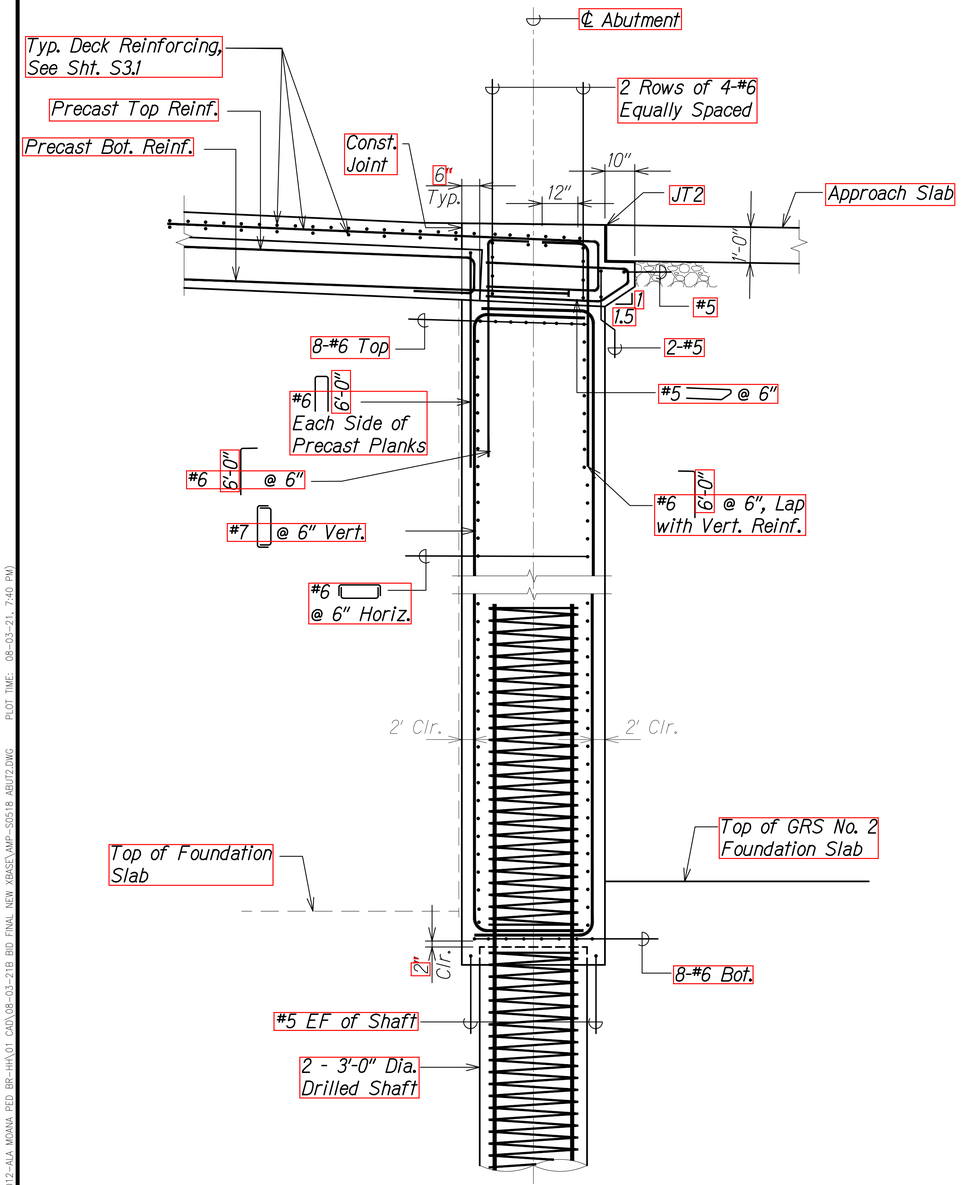
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.17 OF 19 SHEETS

ADD. 167

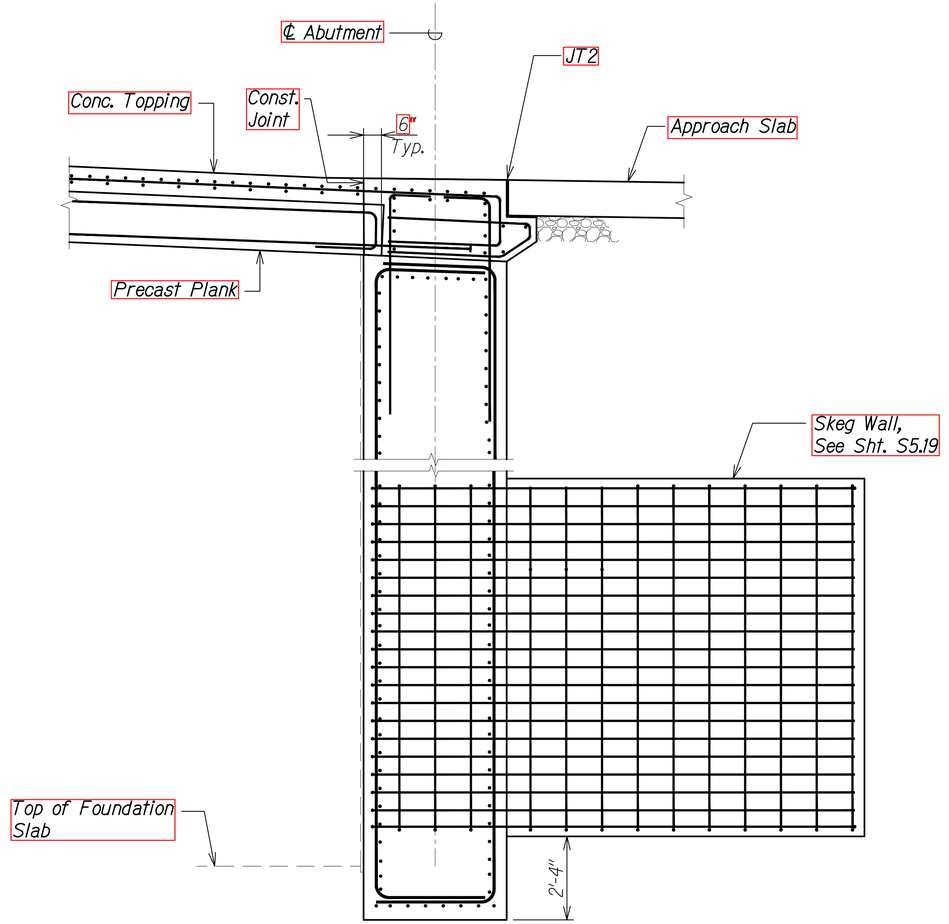
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	168	295



ABUTMENT NO. 2 SECTION AT DRILLED SHAFTS

Scale: 1/2" = 1'-0"

A — S5.10 | S5.18 — S5.11



ABUTMENT NO. 2 SECTION BETWEEN DRILLED SHAFTS

Scale: 1/2" = 1'-0"

B — S5.10 | S5.18 — S5.11

DATE

ORIGINAL PLAN	SURVEY PLOTTED BY
	DRAWN BY
NOTE BOOK	TRACED BY
	DESIGNED BY
No.	QUANTITIES BY
	CHECKED BY

DRAWING NAME: Z:\OD ENGINEERING\OD CB PROJECTS\OD-012-ALA MOANA PED BR-HWY\01 CAD\OD-03-21B BID FINAL NEW XBASE\MP-S0518 ABUT2.DWG PLOT TIME: 08-03-21, 7:40 PM

STEPHEN T. PETERS — LICENSED PROFESSIONAL ENGINEER — NO. 17097-S — HAWAII, U.S.A.

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SIGNATURE — 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

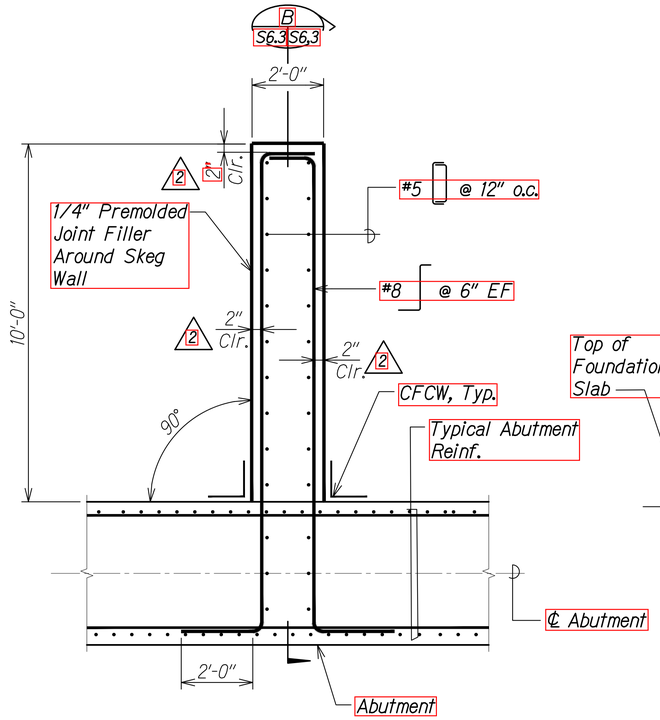
ABUTMENT SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

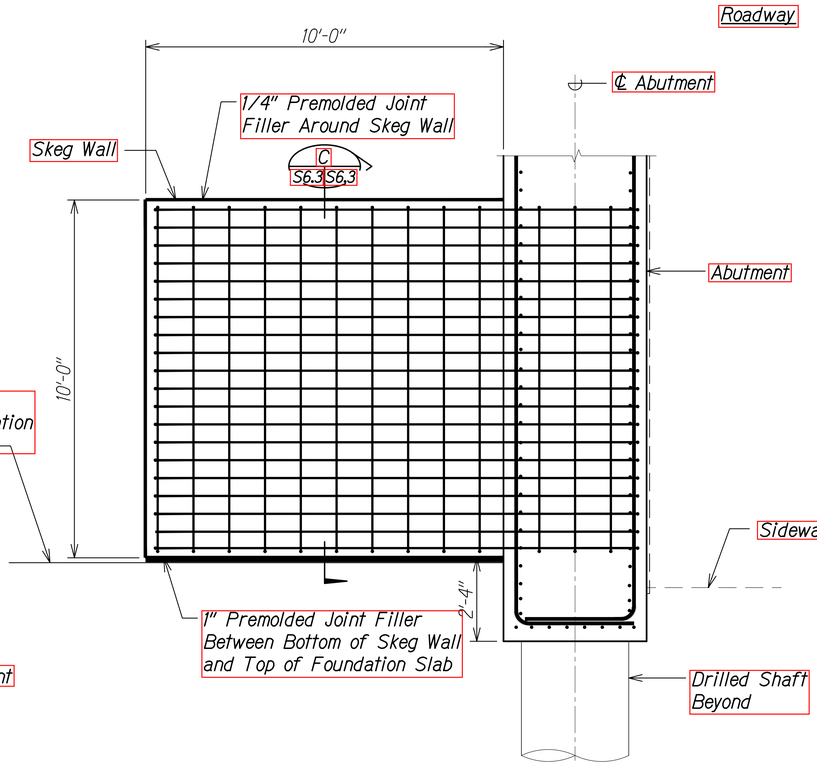
Scale: As Noted — Date: July 2021

SHEET No. S5.18 OF 19 SHEETS

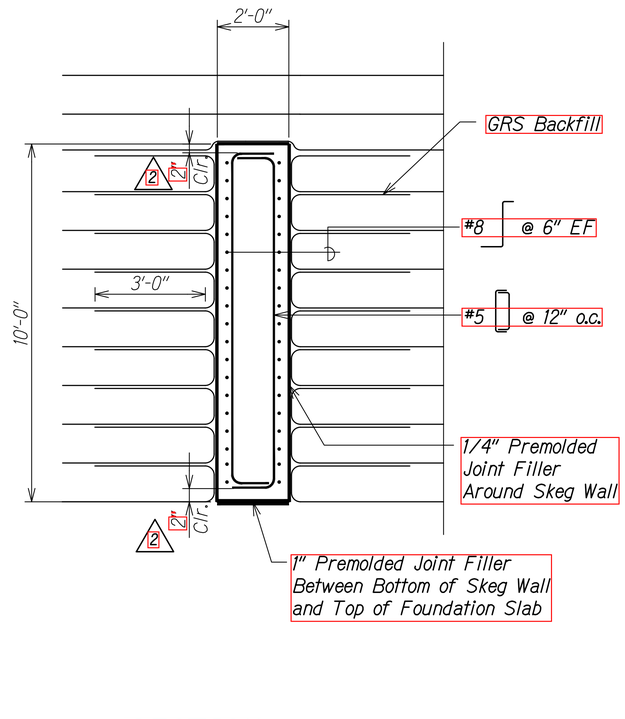
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 169	295



PLAN
Scale: 1/2" = 1'-0"
A S5.19 S5.19



SECTION
Scale: 1/2" = 1'-0"
B S5.19 S5.19



SECTION
Scale: 1/2" = 1'-0"
C S5.19 S5.19

2	9/10/21	Added Dimensions
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SKEG WALL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.19 OF 19 SHEETS

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

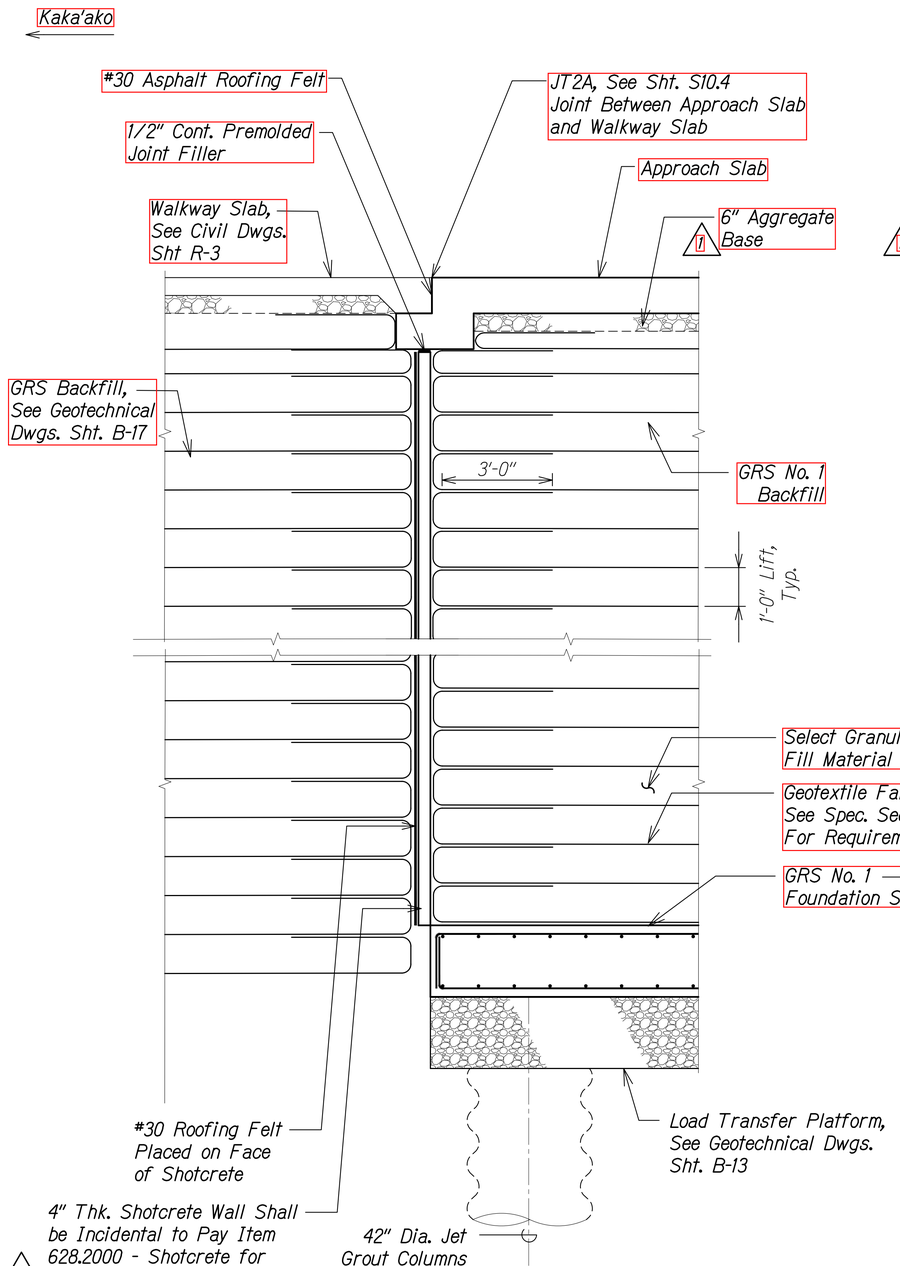
ORIGINAL PLAN | NOTE BOOK No. | DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

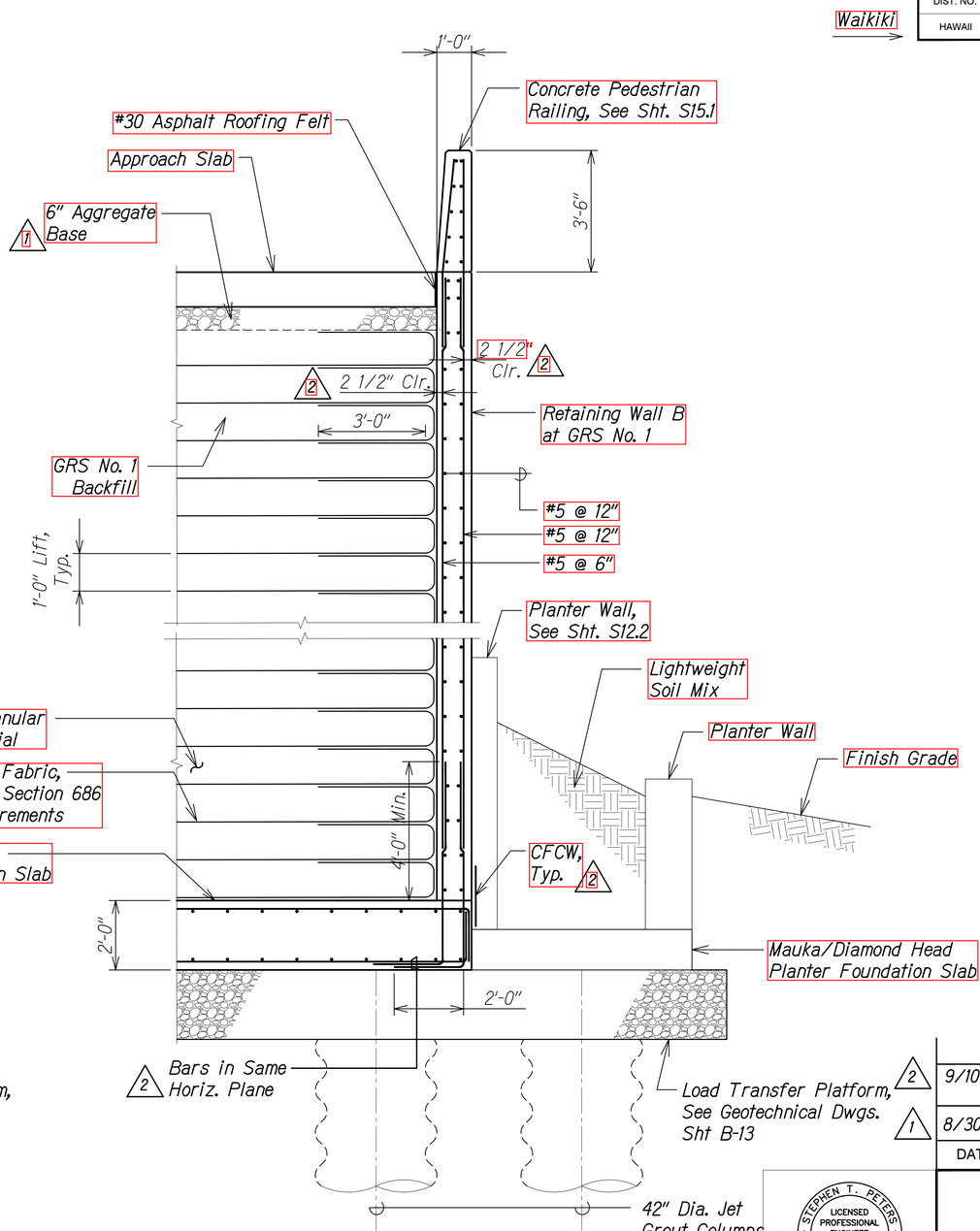
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ADD. 169

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 170	295



ABUTMENT NO. 1
GRS BACKFILL SECTION A
Scale: 1/2" = 1'-0"
S5.1 S6.1



ABUTMENT NO. 1
GRS BACKFILL SECTION B
Scale: 1/2" = 1'-0"
S5.1 S6.1

DATE	REVISION
9/10/21	2 Revised Callouts and Added Dimensions
8/30/21	1 Revised and Added Notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1
GRS SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY
ISSUED DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD2\WIP-S0601 GRS SECT ADD1-2.DWG PLOT TIME: 09-08-21, 7:00 PM

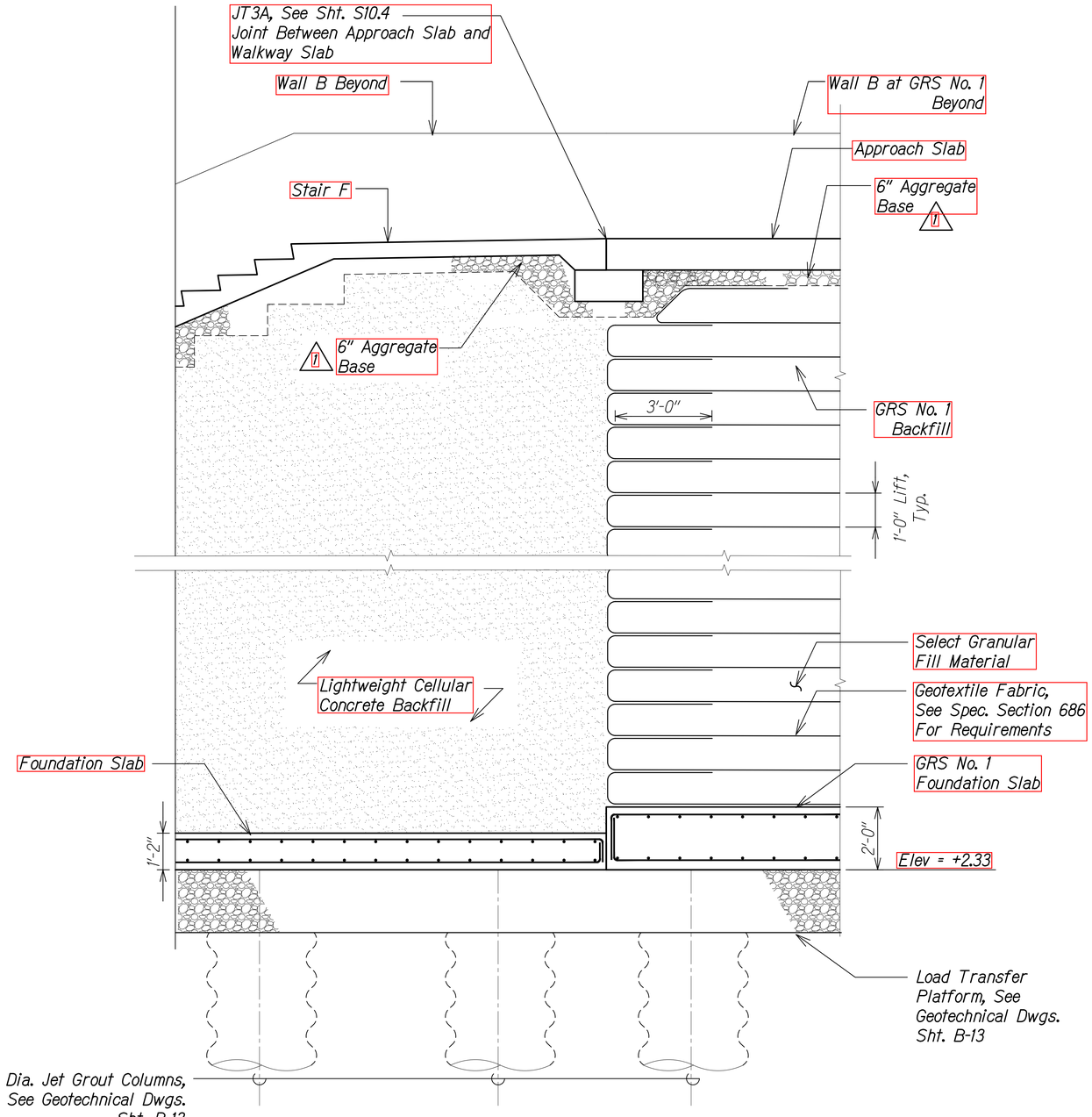
SHEET No. S6.1 OF 4 SHEETS

ADD. 170

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 171	295

Mauke

Makai



ABUTMENT NO. 1
GRS BACKFILL SECTION

A
S5.1 | S6.2

Scale: 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1
GRS SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE — 4-30-22 EXPIRATION DATE OF THE LICENSE

Scale: As Noted — Date: July 2021

SHEET No. S6.2 OF 4 SHEETS

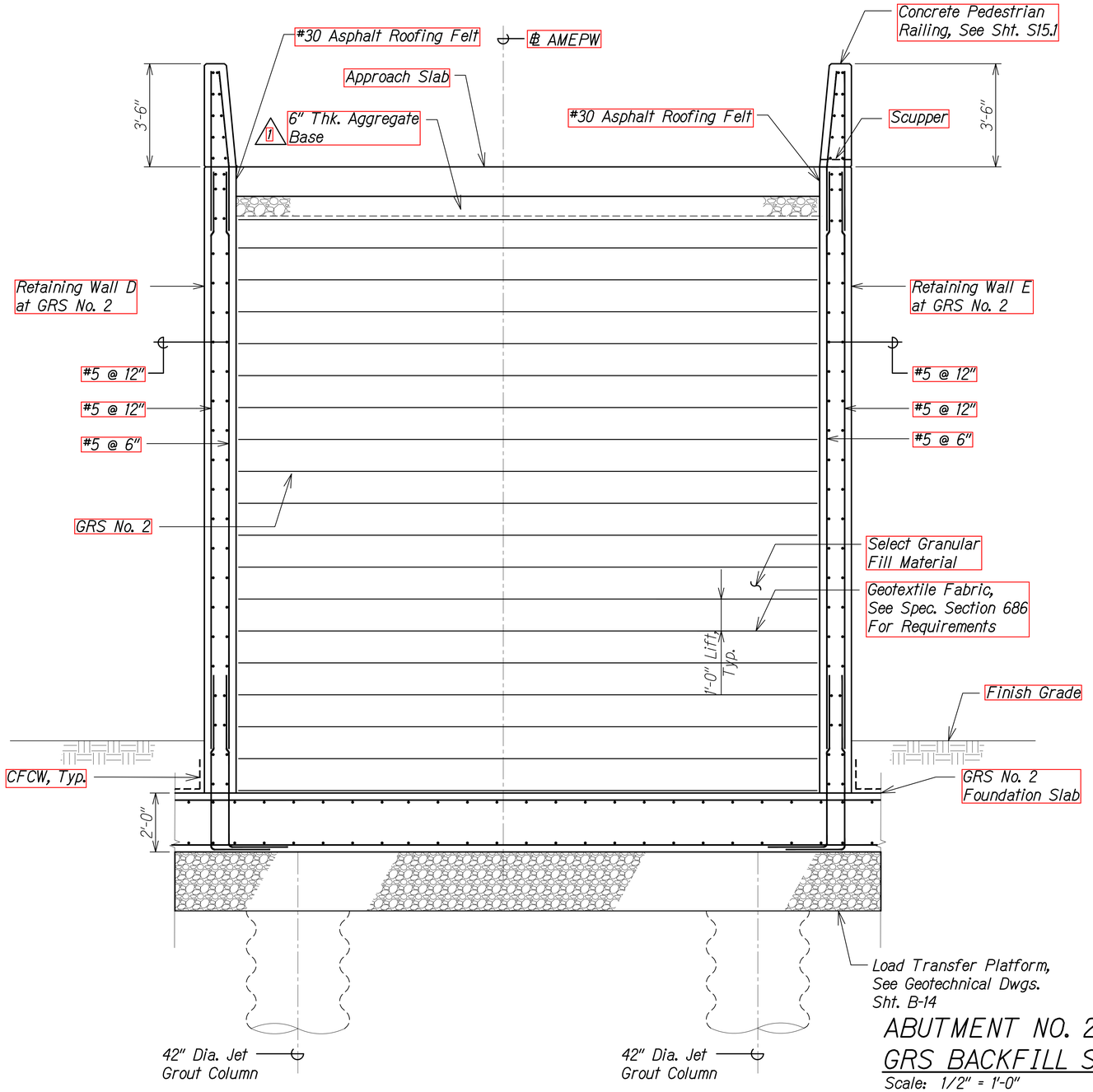
ADD. 171

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD1\AMP-S0601 GRS SECT ADD1.DWG PLOT TIME: 08-30-21, 11:21 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 172	295

Waikiki

Kaka'ako



ABUTMENT NO. 2
GRS BACKFILL SECTION

A S5.10 | S6.3

Scale: 1/2" = 1'-0"

DATE	REVISION
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2
GRS SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: 2\00 ONGOING\20-012-ALA MOANA PED BR-HWL01 CAD\08-30-21 ADD\VMP-S0601 GRS SECT ADD1.DWG PLOT TIME: 08-30-21 11:21 AM

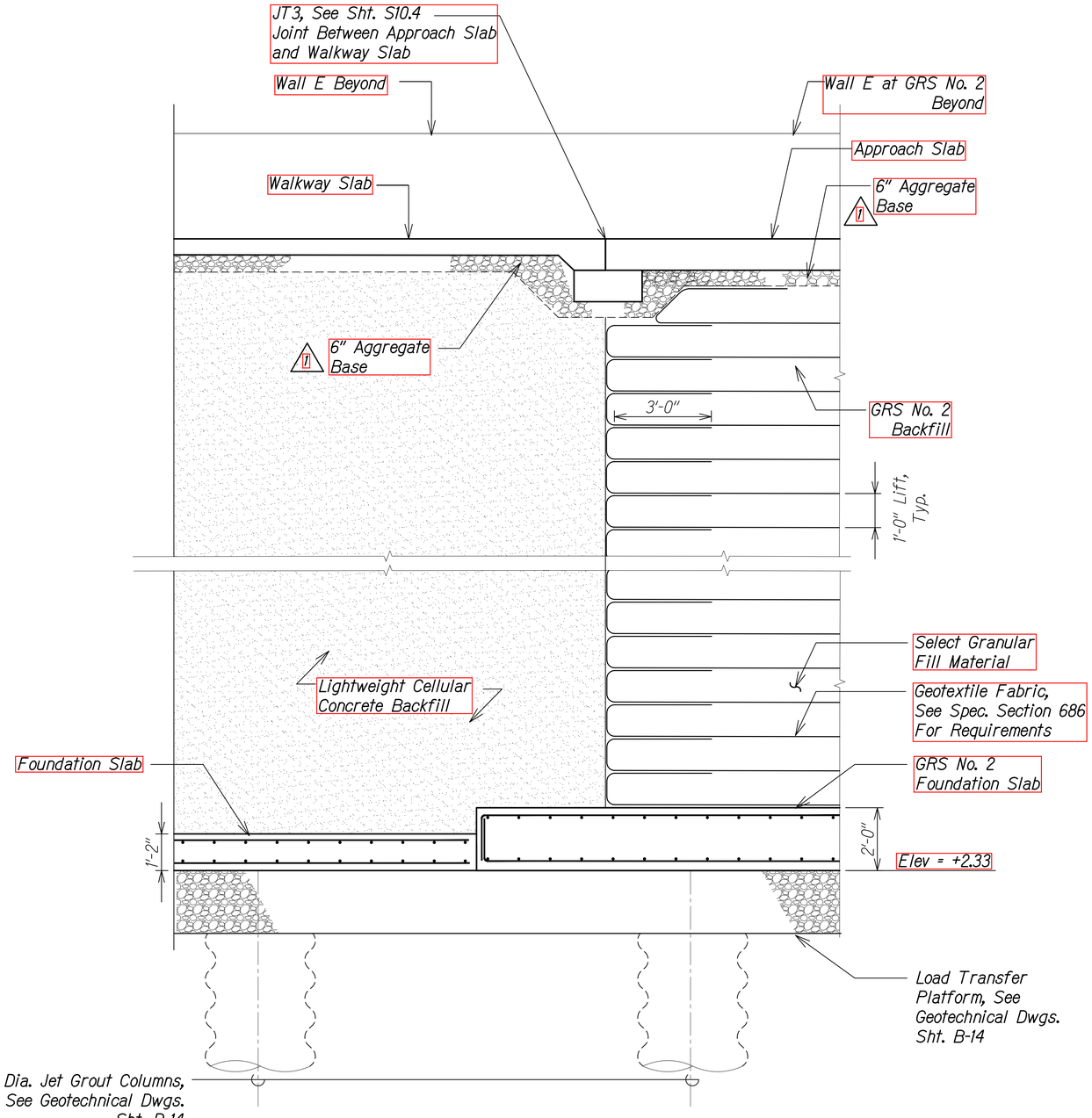
SHEET No. S6.3 OF 4 SHEETS

ADD. 172

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 173	295

Waikiki

Kaka'ako



ABUTMENT NO. 2
GRS BACKFILL SECTION

A
S5.10 | S6.4

Scale: 1/2" = 1'-0"

DATE	REVISION
8/30/21	Revised Note

1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2
GRS SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

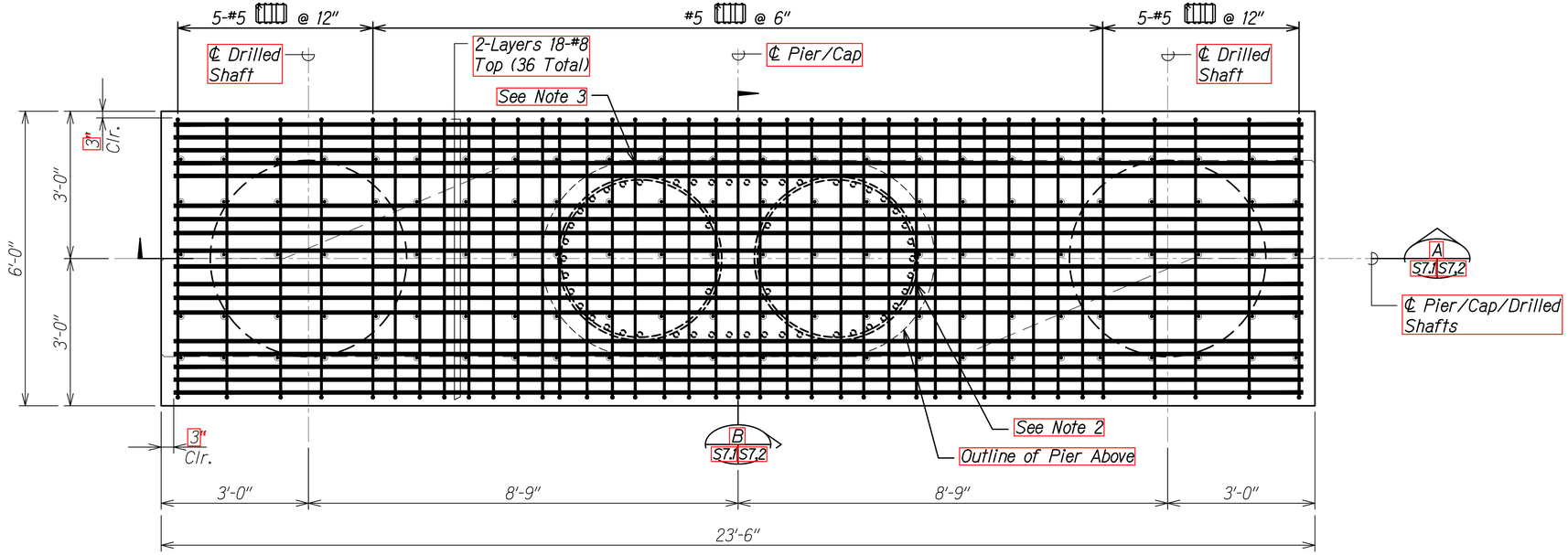
SHEET No. S6.4 OF 4 SHEETS

ADD. 173

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | NOTE BOOK | TRACED BY | DESIGNED BY | QUANTITIES BY | No. | CHECKED BY | DATE

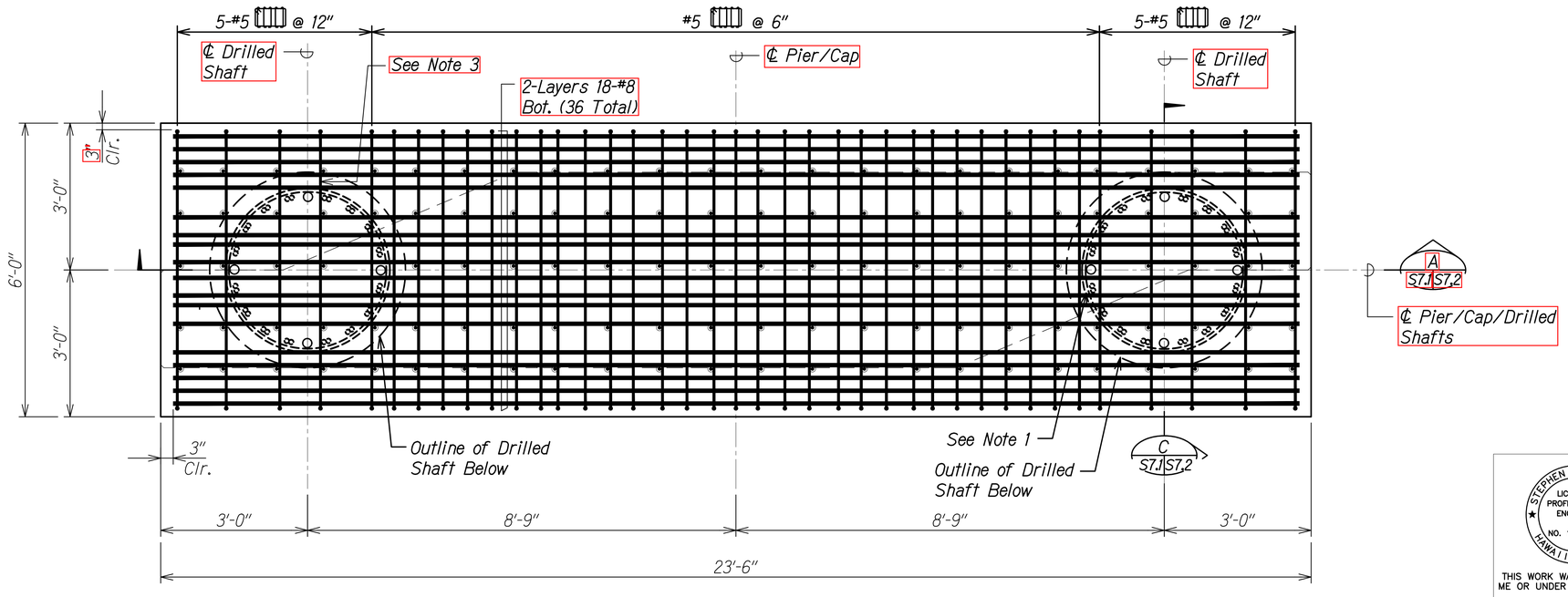
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	174	295



DRILLED SHAFT CAP TOP REINFORCING PLAN

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



DRILLED SHAFT CAP BOTTOM REINFORCING PLAN

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

Notes:

1. Vertical drilled shaft reinforcing shall be adjusted with a template to avoid interference with bottom longitudinal reinforcing in the drilled shaft.
2. Adjust top longitudinal reinforcing in the drilled shaft cap to avoid interference with vertical pier reinforcing. Ensure #5 hairpins remain plumb.
3. Adjust #5 ▯ stirrups to avoid interference with vertical reinforcing in drilled shaft cap and pier.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRILLED SHAFT CAP PLANS

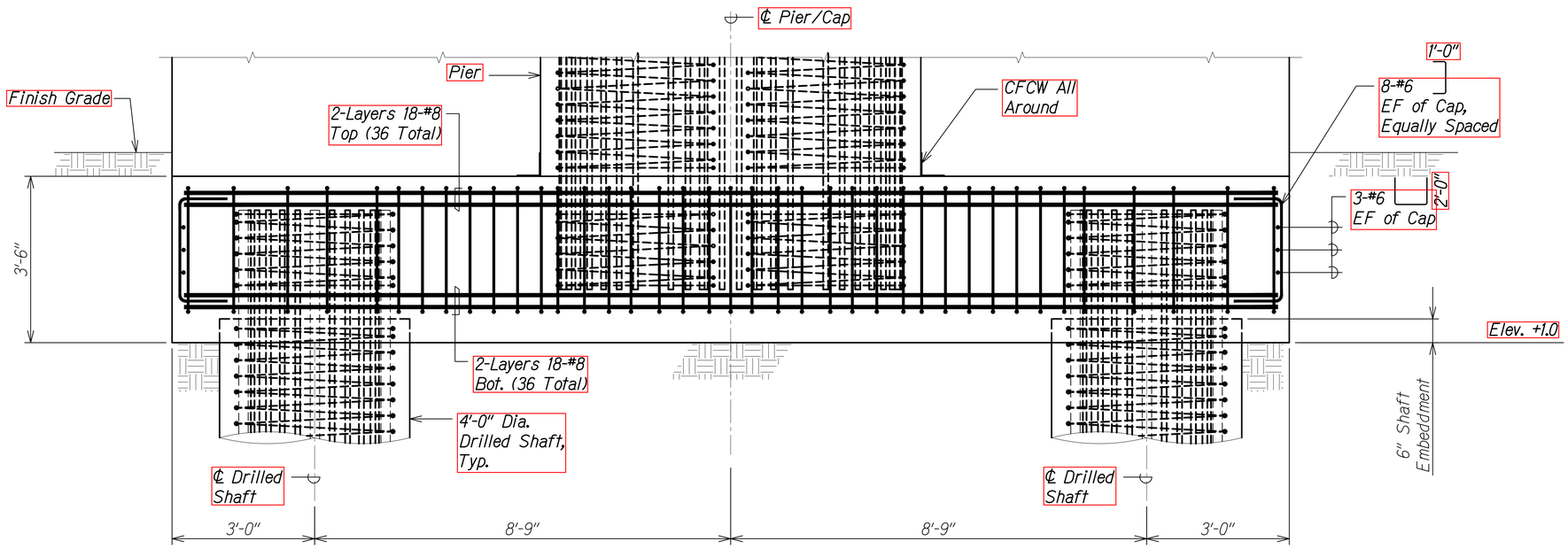
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

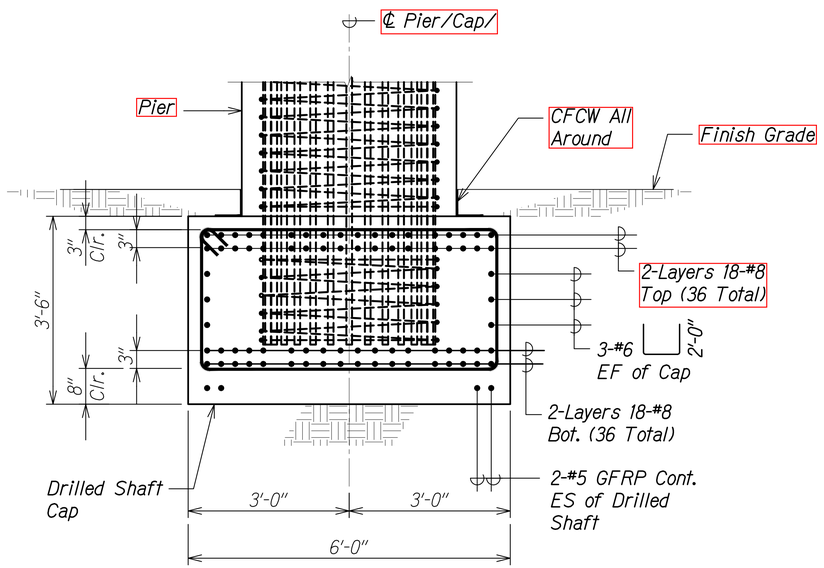
SHEET No. S7.1 OF 2 SHEETS

PLOT TIME: 08-04-21; 9:53 AM
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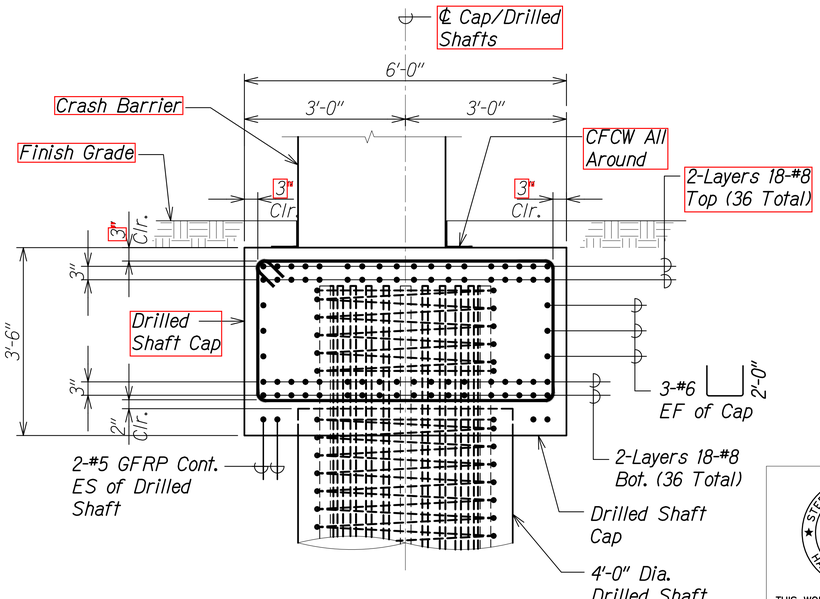
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	175	295



SECTION A
Scale: 3/4" = 1'-0"
S7.1 S7.2



SECTION B
Scale: 3/4" = 1'-0"
S7.1 S7.2



SECTION C
Scale: 3/4" = 1'-0"
S7.1 S7.2

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S0701 DS CAP DWG PLOT TIME: 08-04-21, 9:53 AM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

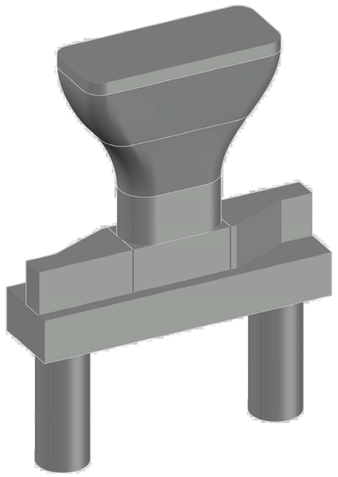
DRILLED SHAFT CAP SECTIONS

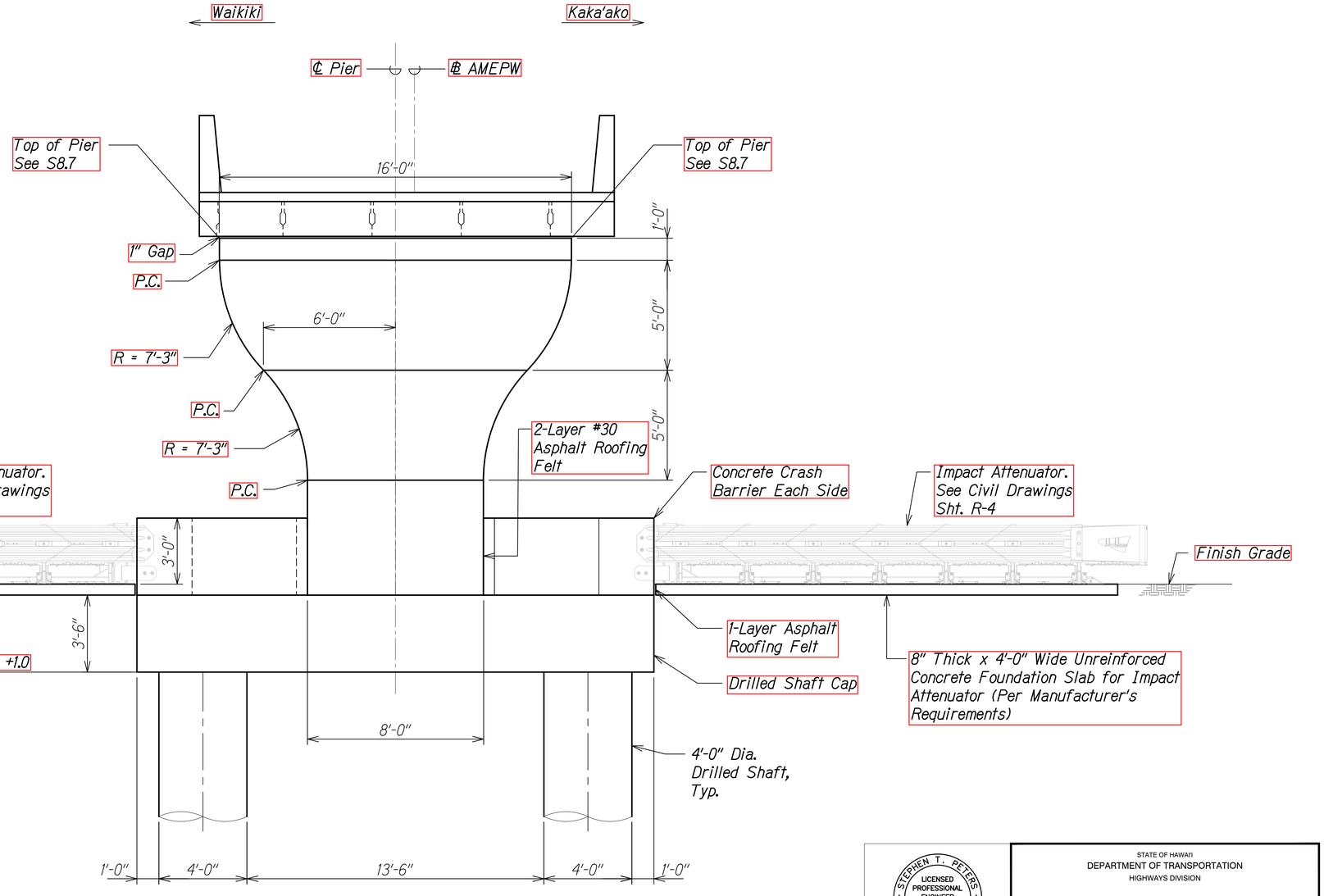
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S7.2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	176	295





PIER ARCHITECTURAL CONCEPT

Not to Scale

PIER ELEVATION

Scale: 3/8" = 1'-0"

A S8.1 S8.1

DATE	REVISIONS

ORIGINAL PLAN	SURVEY PLOTTED BY
	DRAWN BY
NOTE BOOK	TRACED BY
	DESIGNED BY
No.	QUANTITIES BY
	CHECKED BY

DRAWING NAME: Z:\OD ENGINEERING\CB PROJECTS\20-012-ALA MOANA PED BR-HAWAII\CADD\08-03-21 BID FINAL NEW XBASE\AMP-S0801 PIER.DWG PLOT TIME: 08-03-21, 7:42 PM)

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

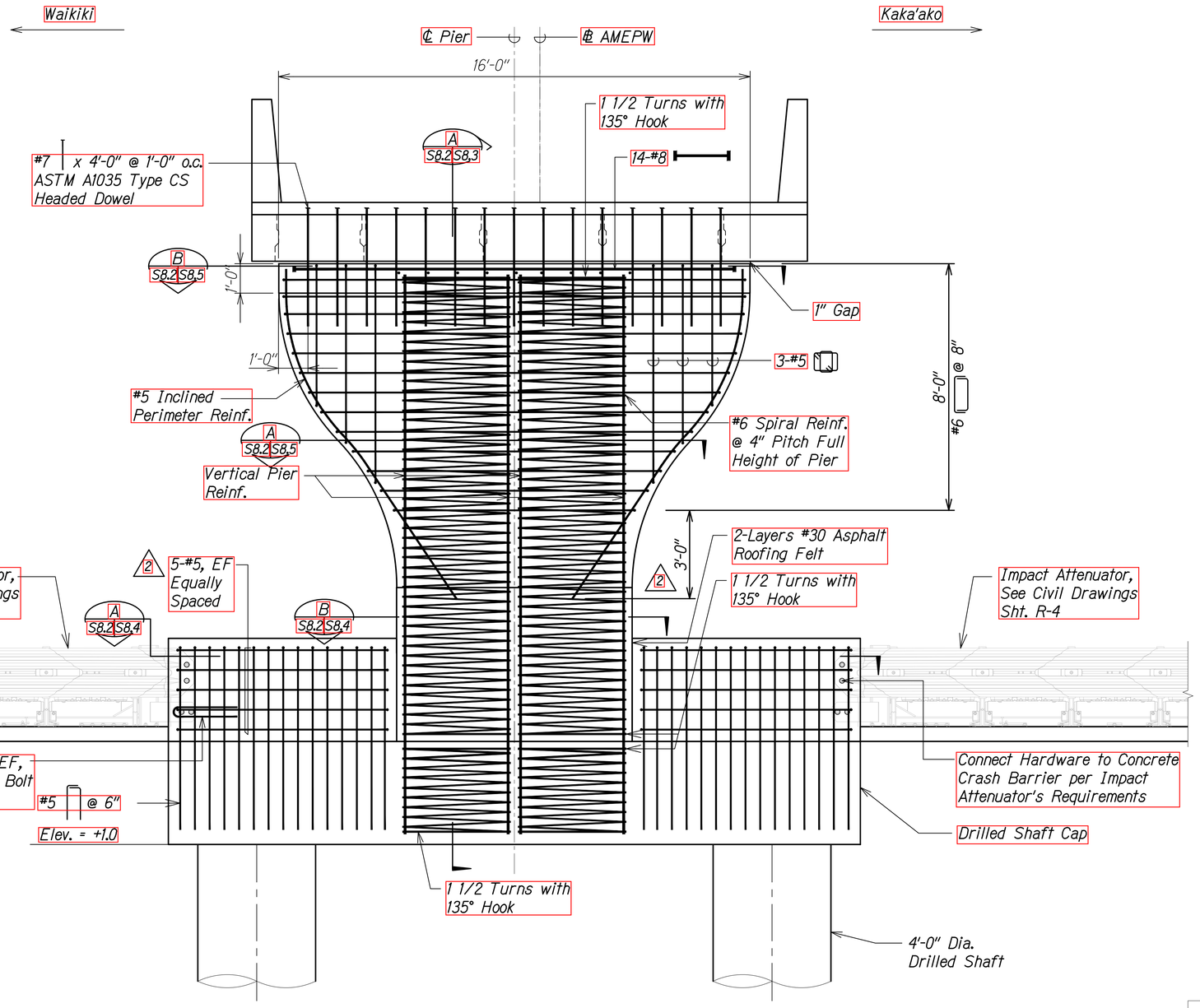
PIER ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S8.1 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 177	295



PIER REINFORCING ELEVATION (A S8.2 S8.2)

Scale: 1/2" = 1'-0"

2	9/10/21	Revised Callout and Added Reinf., Dimension, Callouts
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER REINFORCING ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S8.2 OF 8 SHEETS

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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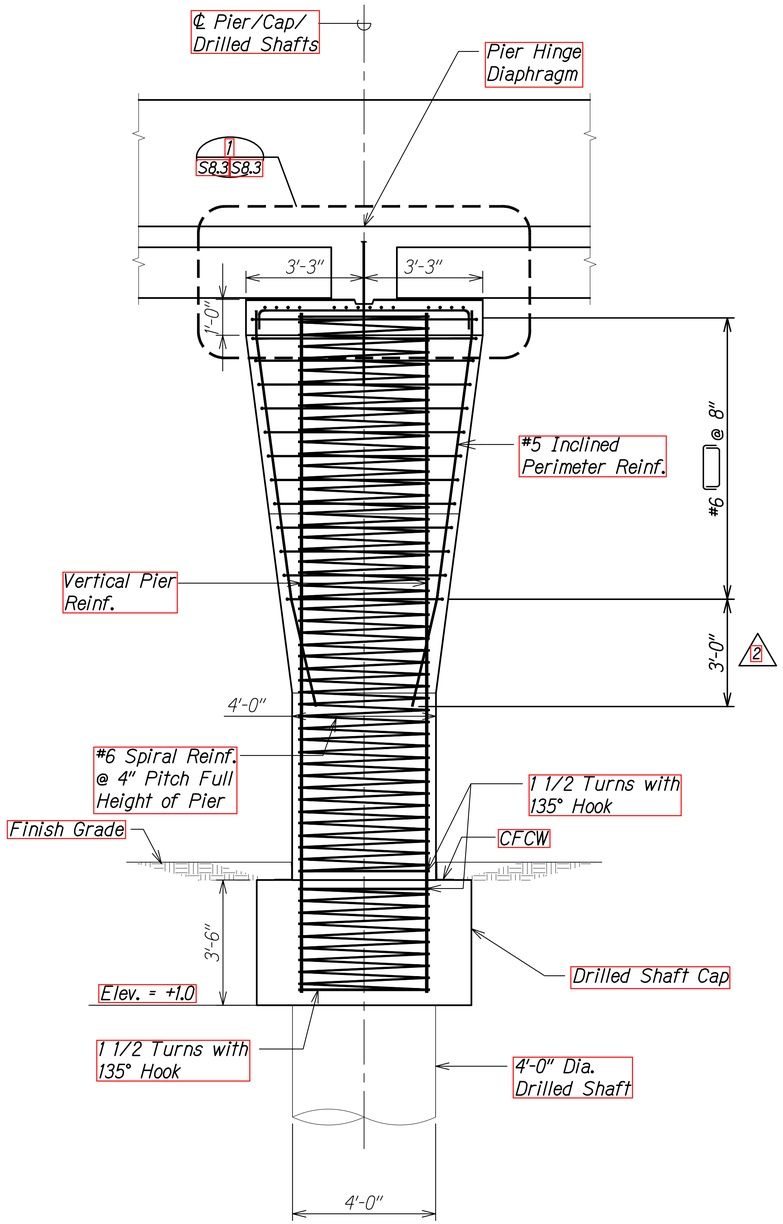
SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | NOTE BOOK | TRACED BY | DESIGNED BY | No. | QUANTITIES BY | CHECKED BY | DATE

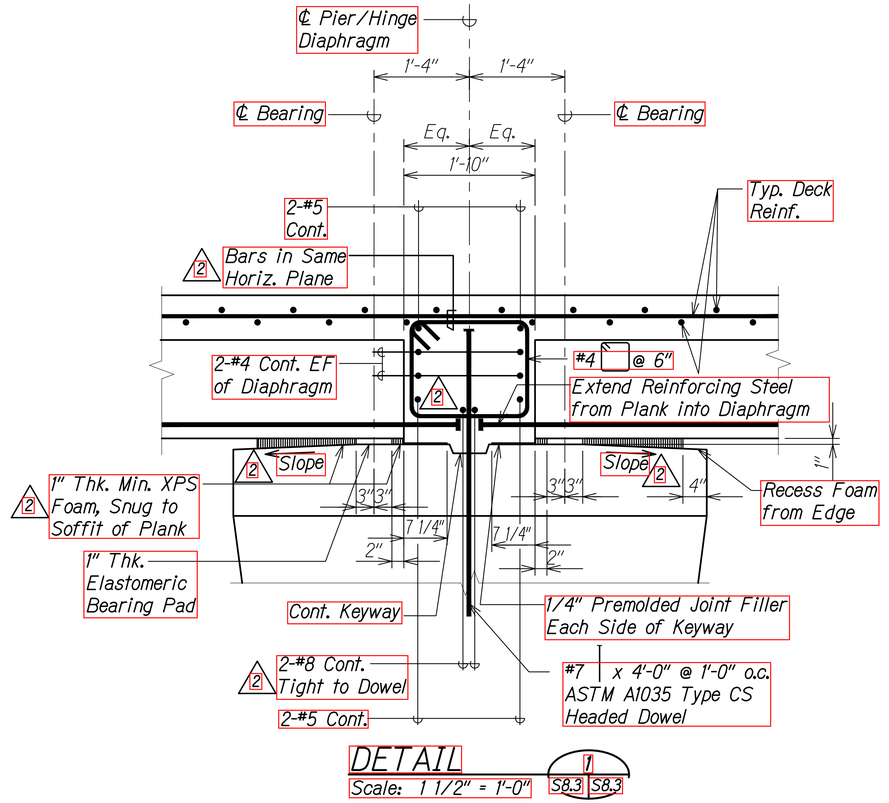
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ADD. 177

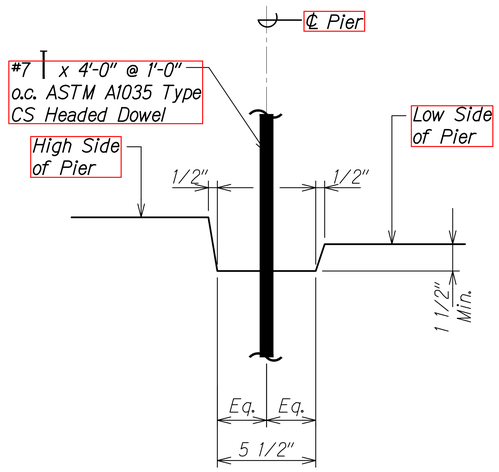
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 178	295



PIER SECTION — A
Scale: 1/2" = 1'-0"
S2.2 S8.3 S8.2



DETAIL — 1
Scale: 1 1/2" = 1'-0"
S8.3 S8.3



2 KEYWAY DETAIL — 2
Scale: 3" = 1'-0"
S8.3 S8.3

Notes:

1. Elastomeric Bearing Pad and XPS Foam will not be paid for separately and will be considered incidental to concrete pier work.
2. 2 Finish grade elevations at top of concrete pier that produce a grade differential shall transition either side of keyway.

DATE	REVISION
2 9/10/21	Revised Callouts, Notes and Slope; Added Dimension and Detail

ISSUED DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

STEPHEN T. PETERS — LICENSED PROFESSIONAL ENGINEER — NO. 17097-S — HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER SECTION AND DETAIL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

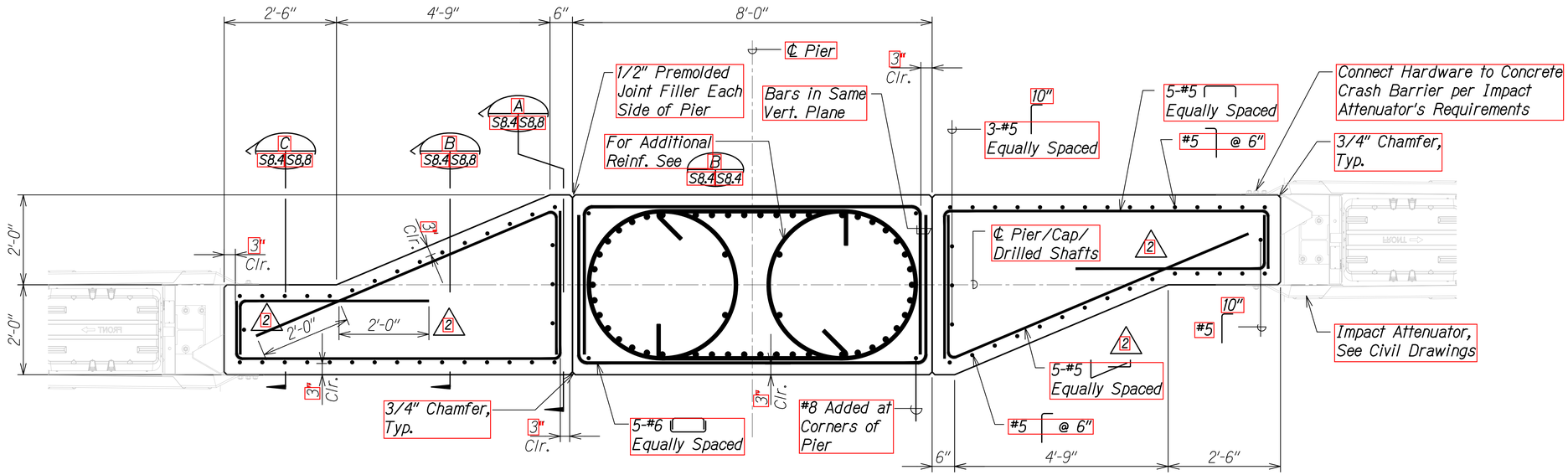
Scale: As Noted — Date: July 2021

SHEET No. S8.3 OF 8 SHEETS

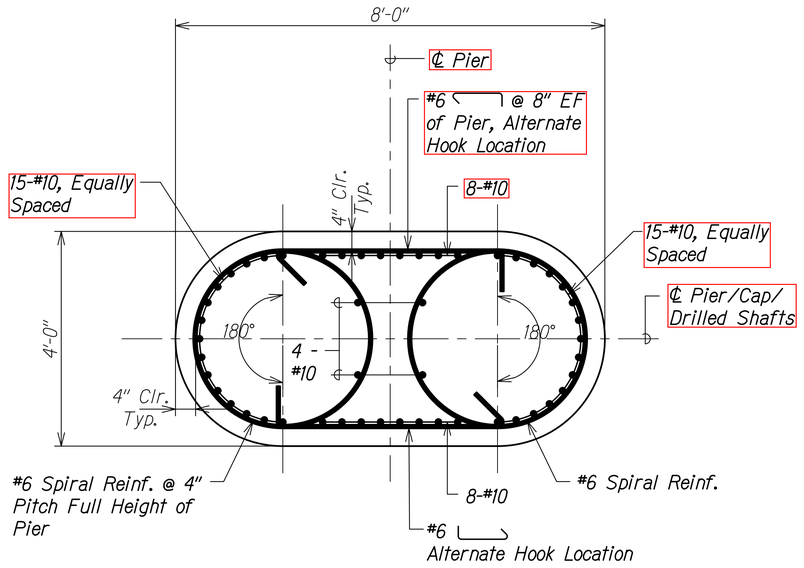
ADD. 178

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HHV01 CAD\09-09-21 ADD\XMP-S0801 PIER ADD2.DWG PLOT TIME: 09-09-21 7:00 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 179	295



SECTION
Scale: 3/4" = 1'-0"
A S8.2 S8.4



SECTION
Scale: 3/4" = 1'-0"
B S8.2 S8.4
S8.4, S8.5

DATE	REVISION
9/10/21	Revised Reinf.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SHEET No. S8.4 OF 8 SHEETS

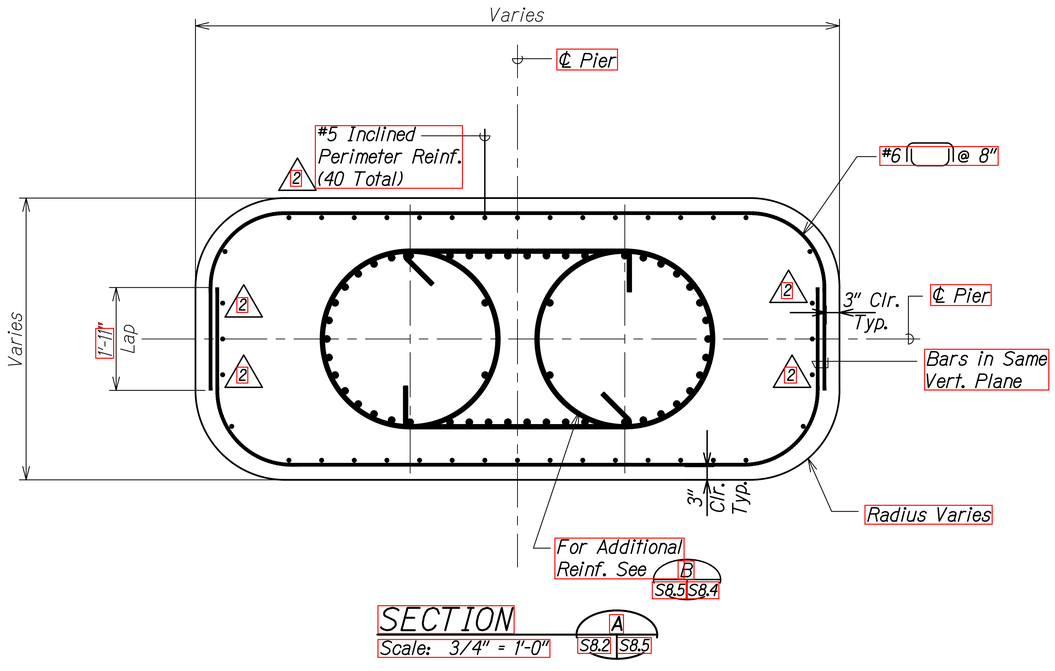
ADD. 179

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

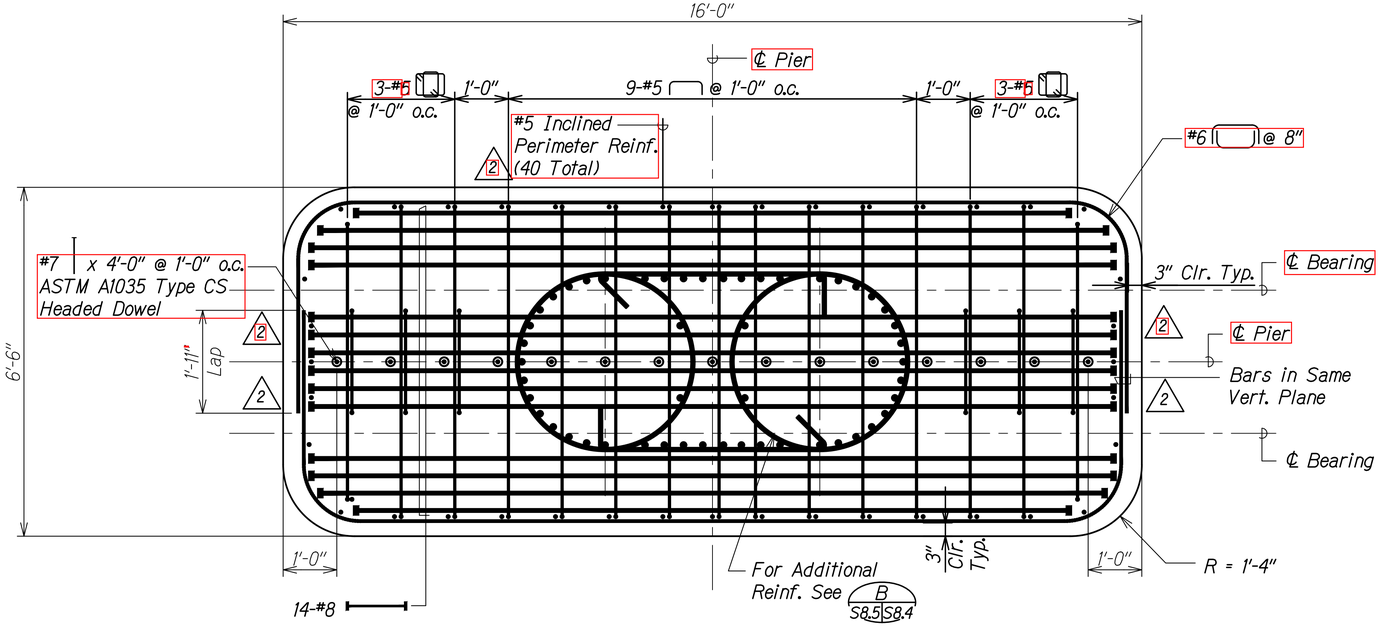
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\JOB ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S0804 PIER ADD2.DWG PLOT TIME: 09-08-21 6:59 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 180	295



SECTION
Scale: 3/4" = 1'-0"
A
S8.2 S8.5



SECTION
Scale: 3/4" = 1'-0"
B
S8.2 S8.5

DATE	REVISION
2 9/10/21	Added Reinf. & Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SHEET No. S8.5 OF 8 SHEETS

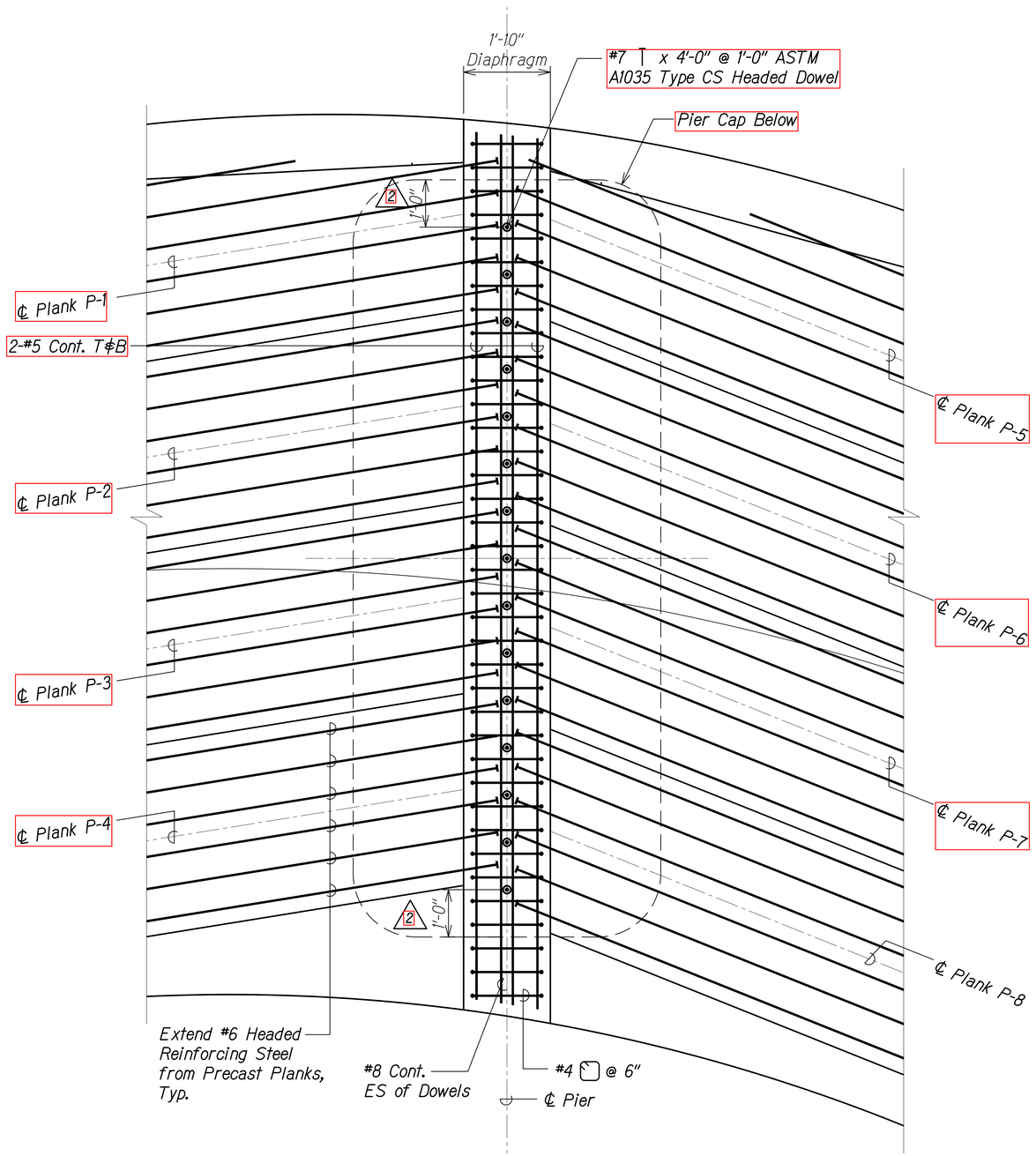
ADD. 180

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S0865 PIER ADD2.DWG PLOT TIME: 09-08-21 6:58 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 181	295



HINGE DIAPHRAGM PLAN

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

A S8.6 | S8.6

True North

SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN

NOTE BOOK

No.

DATE

DRAWING NAME: Z:\JOB ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S0806 PIER HINGE ADD2.DWG PLOT TIME: 09-09-21, 10:19 AM

2	
9/10/21	Added Dimensions
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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HINGE DIAPHRAGM PLAN

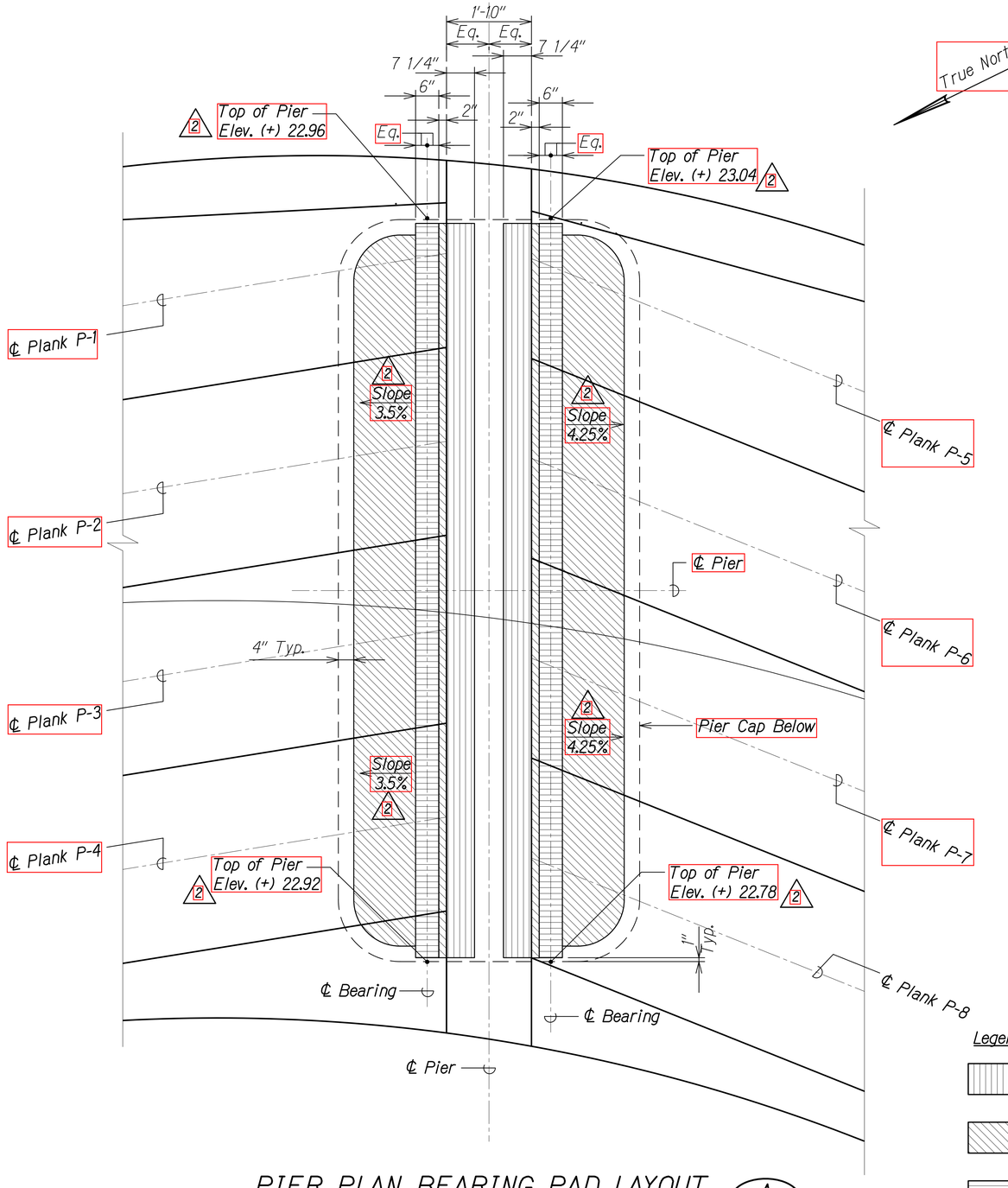
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S8.6 OF 8 SHEETS

ADD. 181

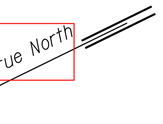
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 182	295



PIER PLAN BEARING PAD LAYOUT

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

A S8.7 | S8.7



2 **Note:**

Top of pier elevations are measured along the centerline of the bearing and denote the finish concrete elevation at the edge of the pier.

Legend:

- 1/4" Thick Premolded Joint Filler
- 1" Thick Min. XPS Foam 2
- 1" Thick Neoprene Bearing Pad

2	9/10/21	Revised and Added Callouts & Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER PLAN BEARING PAD LAYOUT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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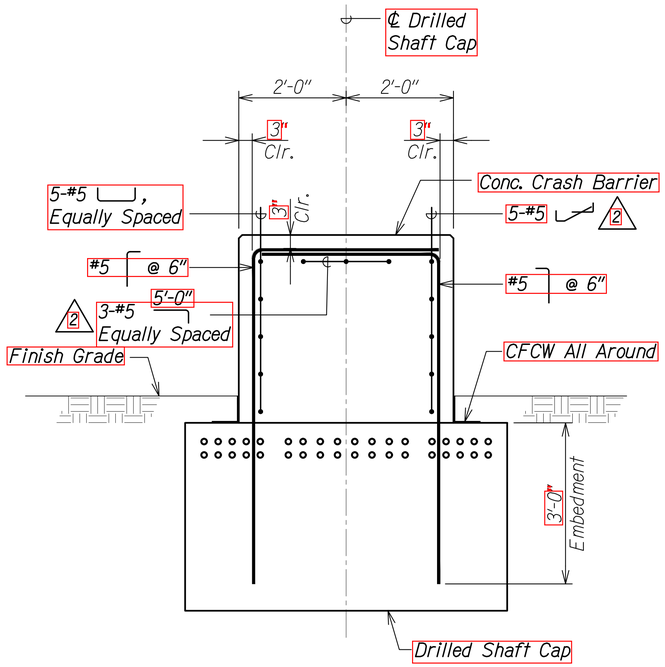
SHEET No. S8.7 OF 8 SHEETS

ADD. 182

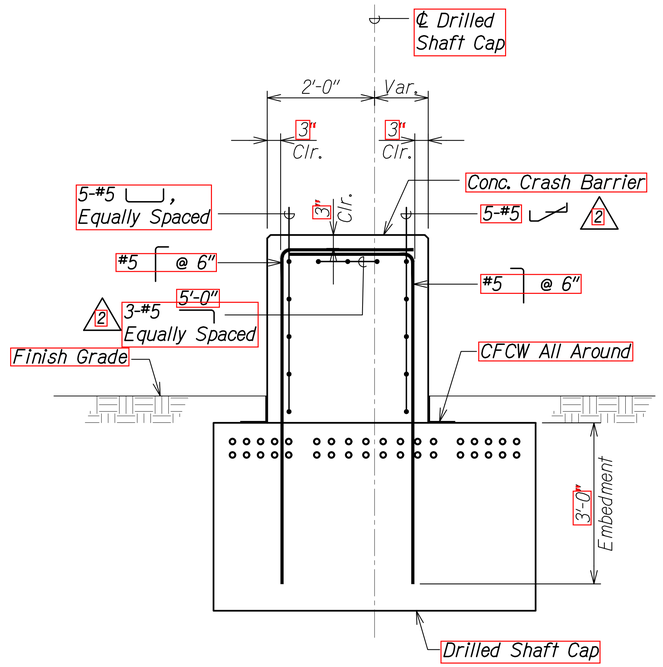
ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HWY\01 CAD\09-09-21 ADD2\AMP-S0807 PIER BRG PAD ADD2.DWG PLOT TIME: 09-09-21 6:59 PM

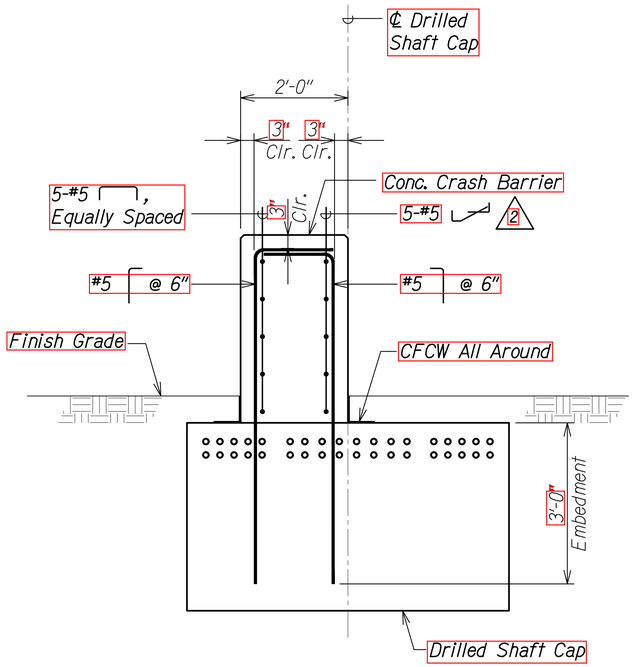
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 183	295



SECTION A
Scale: 3/4" = 1'-0"
S8.4 S8.8



SECTION B
Scale: 3/4" = 1'-0"
S8.4 S8.8



SECTION C
Scale: 3/4" = 1'-0"
S8.4 S8.8

2	9/10/21	Added Reinf. & Revised Callouts
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BARRIER SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S8.8 OF 8 SHEETS

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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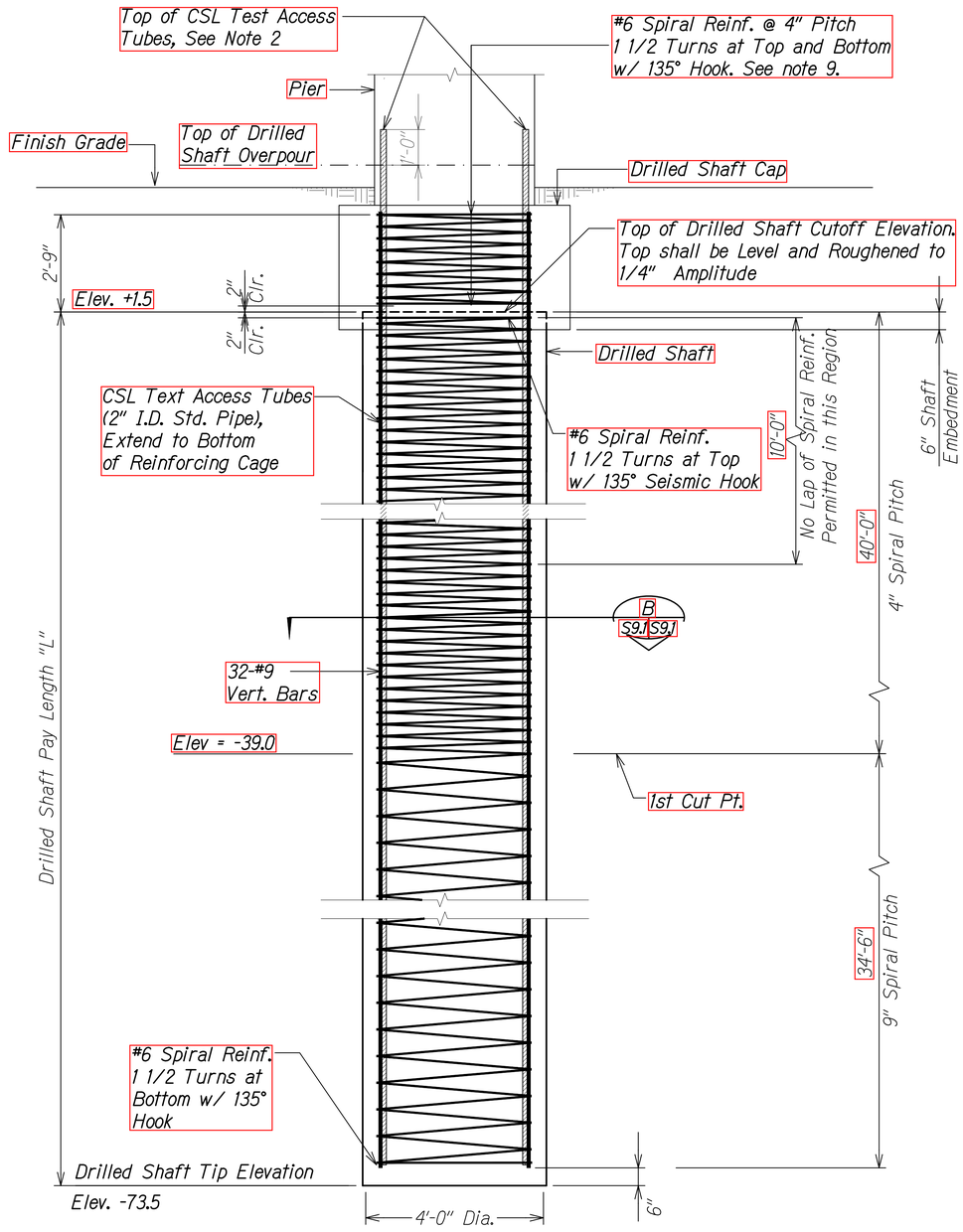
SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

ISSUED DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S0808 BARRIER ADD2.DWG PLOT TIME: 09-08-21, 6:58 PM

ADD. 183

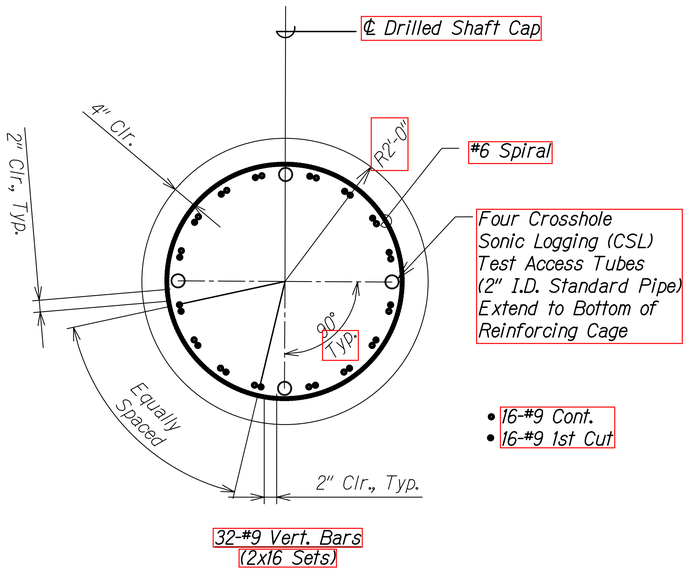
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	184	295



4'-0" DIA. DRILLED SHAFT ELEVATION

Scale: 1/2" = 1'-0"

A S9.1 S9.1



4'-0" DIA. DRILLED SHAFT SECTION

Scale: 1" = 1'-0"

B S9.1 S9.1

NOTES:

1. Crosshole Sonic Logging (CSL) testing shall be performed on every drilled shaft. Shafts indicating irregular CSL readings may be subjected to additional testing.
2. After CSL testing, a portion of the CSL test access tubes shall be removed to one inch above top of the drilled shaft cutoff elevation. Tubes shall be completely filled with non-shrink, non-metallic, cementitious grout of at least equal strength as drilled shaft prior to pouring the footing. See Structural General Notes for material requirement.
3. Lap splice length for #9 vert. bar shall be 6'-0". No lap splices of vert. bars are allowed in the upper 40'-0" of the drilled shaft.
4. Lapped splices shall have a minimum of 2'-0" vertically between splice points.
5. Staggered splice points for longitudinal reinforcing shall not be more than 50% of the total at any section normal to the axis of the shaft.
6. Lap splice length for #6 spirals shall be 3'-7" min. with a 135° hook bend at each end.

NOTES (CONTINUED):

7. Each end of the spiral shall have 1 1/2 extra turns with a 135° hook around a vertical reinforcing bar. Where seismic hooks are indicated, 135° hook for #6 spiral shall have a 4 1/2" long tail.
8. Concrete or other non-corrosive spacing devices shall be used to maintain the reinforcement cage in position within the shaft.
9. #6 spiral reinforcing in drilled shaft cap may be installed prior to cap pour.
10. Overpour drilled shaft 4'-0" above top of drilled shaft cutoff elevation. Remove concrete down to drilled shaft cutoff elevation no sooner than 48 hours after pour. Refer to Section 511 of the Special Provisions for additional requirements.
11. Prior to drilled shaft pour, vertical shaft reinforcing shall be adjusted with a template to avoid interference with horizontal reinforcing in the drilled shaft cap.
12. Drilling adjacent to a recently constructed shaft (within five shaft diameters) should not commence until the concrete for the recently constructed drilled shaft has cured for a minimum of 24 hours.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S9001 48IN DS.DWG PLOT TIME: 08-04-21, 9:56 AM)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

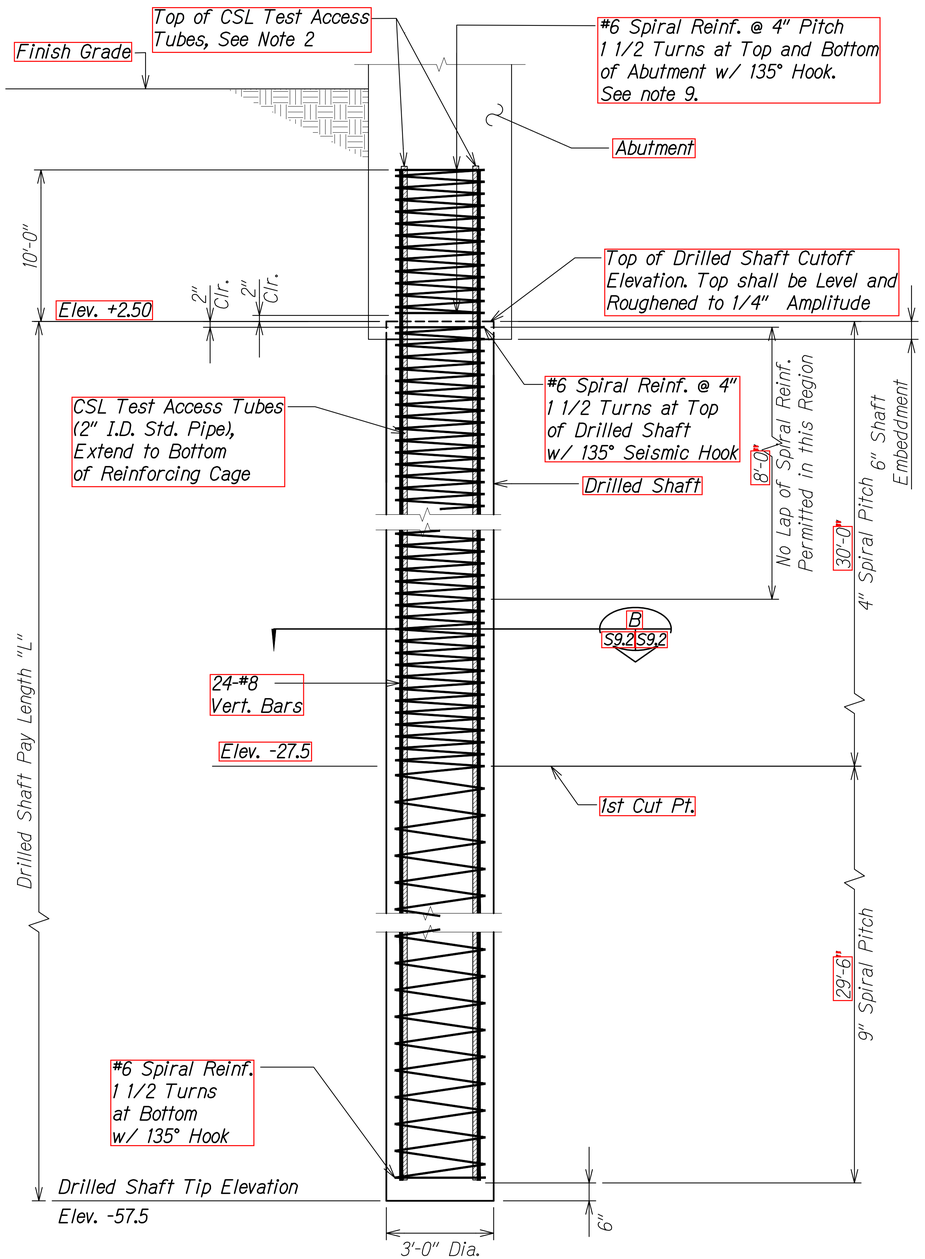
4'-0" DIAMETER DRILLED SHAFT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S9.1 OF 4 SHEETS

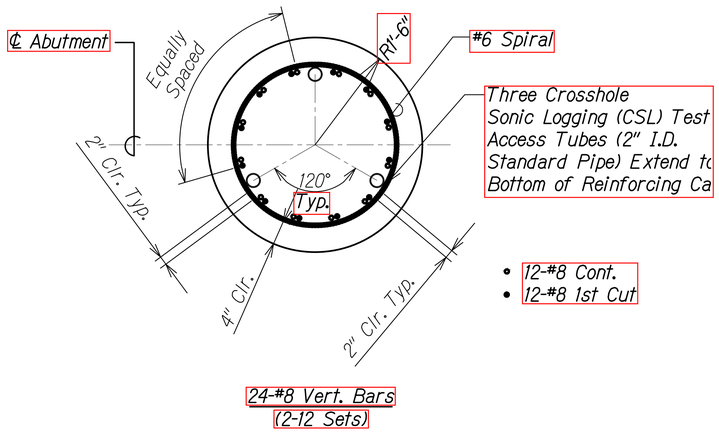
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	185	295



3'-0" DIA. DRILLED SHAFT ELEVATION

Scale: 1/2" = 1'-0"

A
S9.2 S9.2



3'-0" DIA. DRILLED SHAFT SECTION

Scale: 1" = 1'-0"

B
S9.2 S9.2

NOTES:

1. Crosshole Sonic Logging (CSL) testing shall be performed on every drilled shaft. Shafts indicating irregular CSL readings may be subjected to additional testing.
2. After CSL testing, a portion of the CSL test access tubes shall be removed to one inch above top of the drilled shaft cutoff elevation. Tubes shall be completely filled with non-shrink, non-metallic, cementitious grout of at least equal strength as drilled shaft prior to pouring the Abutment Wall. See Structural General Notes for material requirement.
3. Lap splice length for #8 vert. bar shall be 5'-6". No lap splices of vert. bars are allowed in the upper 30'-0" of the drilled shaft.
4. Lapped splices shall have a minimum of 2'-0" vertically between splice points.
5. Staggered splice points for longitudinal reinforcing shall not be more than 50% of the total at any section normal to the axis of the shaft.
6. Lap splice length for #6 spirals shall be 3'-7" min. with a 135° hook bend at each end.
7. Each end of the spiral shall have 1 1/2 extra turns with a 135° hook around a vertical reinforcing bar. Where seismic hooks are indicated, 135° hook for #6 spiral shall have a 4 1/2" long tail.

NOTES (CONTINUED):

8. Concrete or other non-corrosive spacing devices shall be used to maintain the reinforcement cage in position within the shaft.
9. #6 spiral reinforcing in Abutment Wall may be installed prior to Abutment Wall pour.
10. Overpour drilled shaft 4'-0" above top of drilled shaft cutoff elevation. Remove concrete down to drilled shaft cutoff elevation no sooner than 48 hours after pour. Refer to Section 511 of the Special Provisions for additional requirements.
11. Prior to drilled shaft pour, vertical shaft reinforcing shall be adjusted with a template to avoid interference with horizontal reinforcing in the drilled shaft cap.
12. Drilling adjacent to a recently constructed shaft (within five shaft diameters) should not commence until the concrete for the recently constructed drilled shaft has cured for a minimum of 24 hours.

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

3'-0" DIAMETER DRILLED SHAFT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

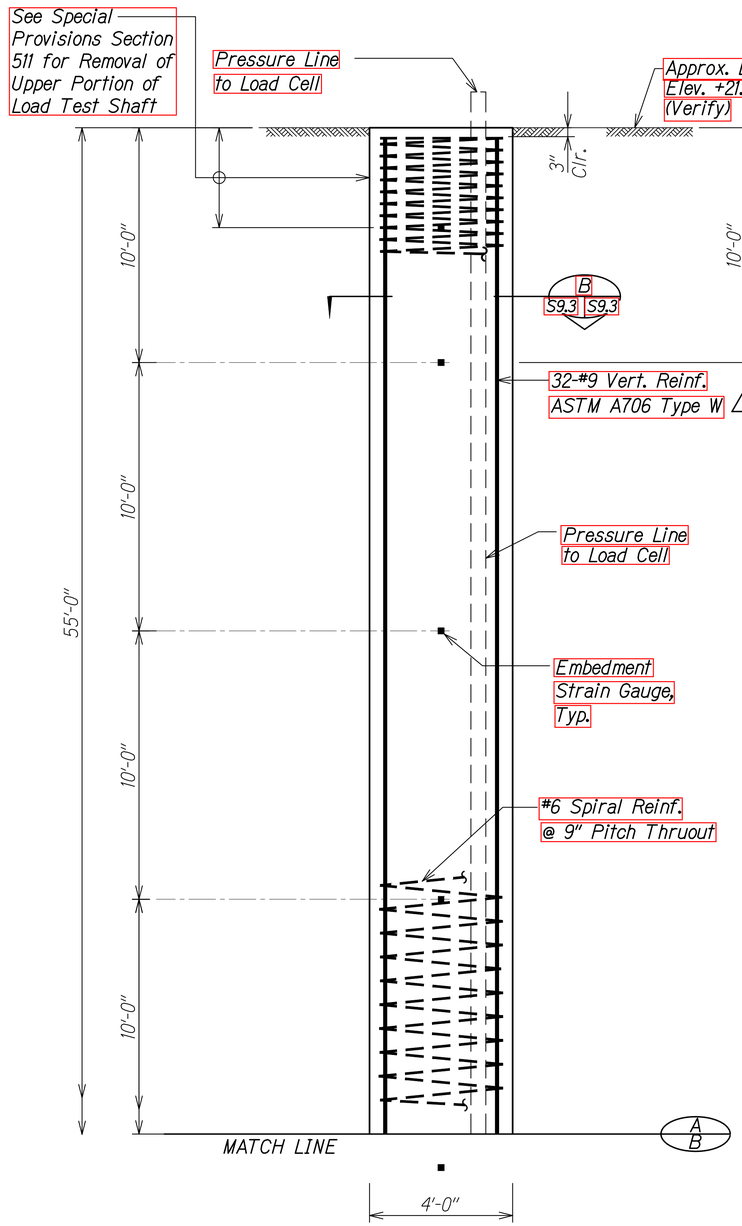
Scale: As Noted — Date: July 2021

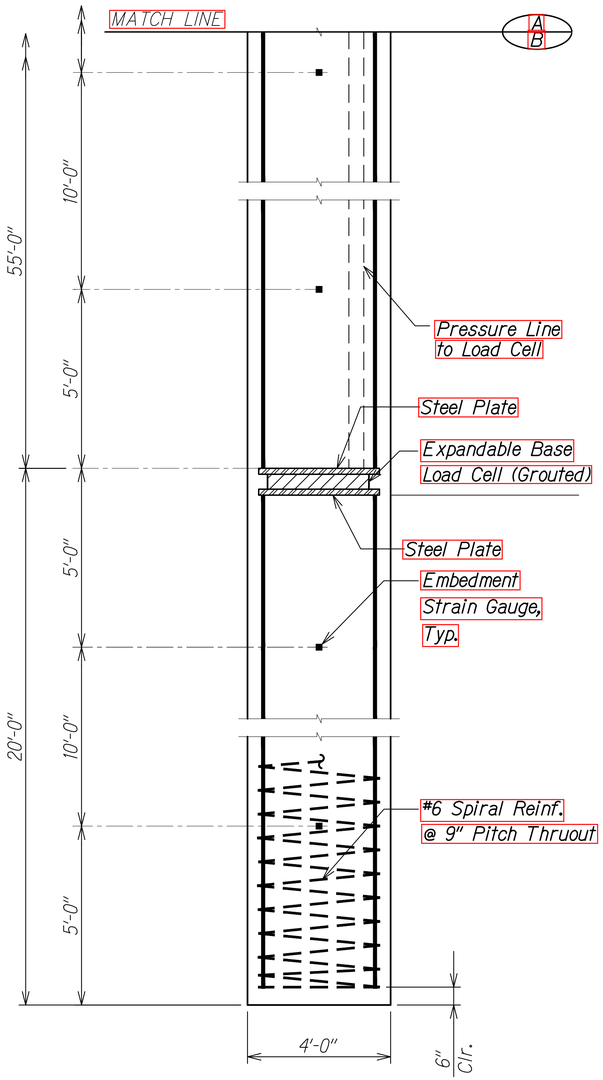
SHEET No. S9.2 OF 4 SHEETS

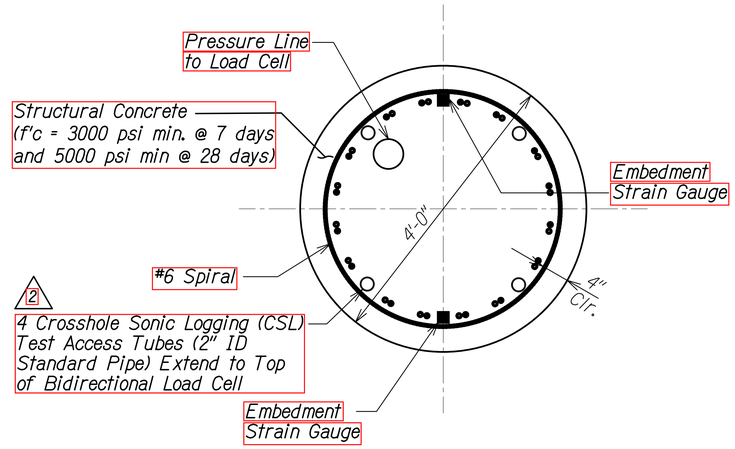
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD DNGO\OD CB PROJECTS\09-012-ALA MOANA PED BR-HAW\01 CAD\09-03-21B BID FINAL NEW KB&SL\AMP-S9902 36IN DS.DWG PLOT TIME: 08-04-21, 9:56 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 186	295







32-#9 Continuous Vert. Bars ASTM A706 Type W Equally Spaced

SECTION
Scale: 1" = 1'-0"
B
S9.3 S9.3

4'-0" DIAMETER LOAD TEST SHAFT ELEVATION
Scale: 1/2" = 1'-0"
A
S9.3 S9.3

2	9/10/21	Added CSL Tube Callout
1	8/30/21	Revised Shaft Vert. Reinf.
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOAD TEST SHAFT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SHEET No. S9.3 OF 4 SHEETS

ADD. 186

ORIGINAL PLAN | NOTE BOOK | No.
DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: 2\00 ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD2\AMP-S0903 LOAD SHAFT ADD1-2.DWG PLOT TIME: 09-08-21, 6:57 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	187	295

DRILLED SHAFT SCHEDULE

Drilled Shaft	(1)	(2)	(3)	(4)	(5)	(6)
Drilled Shaft Cutoff Elevation	+2.50	+2.50	+1.50	+1.50	+2.50	+2.50
Drilled Shaft Tip Elevation	-57.50	-57.50	-73.50	-73.50	-57.50	-57.50
Drilled Shaft Pay Length ("L")	60'-0"	60'-0"	75'-0"	75'-0"	60'-0"	60'-0"
Strength Limit State Compression Demand (Kips)	425	425	625	625	425	425
Strength Limit State Compression Capacity (Kips)	425	425	625	625	425	425
Extreme Event Limit State Compression Demand (Kips)	600	600	1020	1020	600	600
Extreme Event Limit State Compression Capacity (Kips)	950	950	1400	1400	950	950

Notes:

1. See sheet S9.1 and S9.2 for drilled shaft details.
2. See sheet S1.3 for foundation plan.
3. All excavation and drilling operations for foundations shall be monitored by the Engineer.
4. Drilled shaft tip elevations are estimated. The actual length of the shaft and drilled shaft tip elevations will be determined by the Engineer.
5. Drilled shaft tip elevations shall be verified by the Engineer prior to placing reinforcement and concrete. Concrete shall be placed within 24 hours after drilling but shall not be placed without prior approval of the Engineer.

DRAWING NAME: Z:\OD ENGINEERING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HAWAII CAD\08-03-21B BID FINAL NEW XBASE\AMP-S9904 DRILLED SHAFT SCHED.DWG PLOT TIME: 08-04-21, 9:57 AM

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
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	QUANTITIES BY
	CHECKED BY
	DATE

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

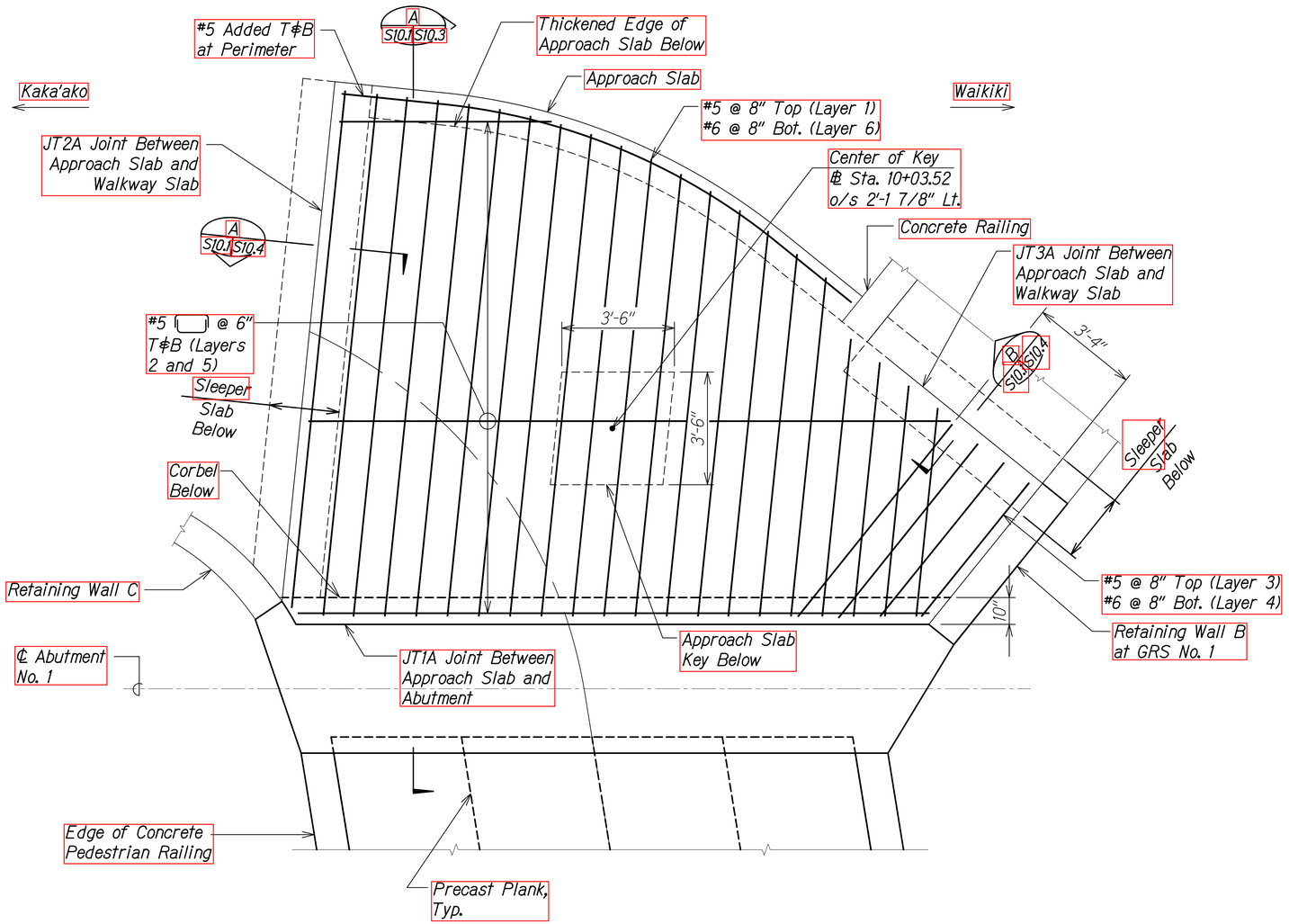
DRILLED SHAFT SCHEDULE

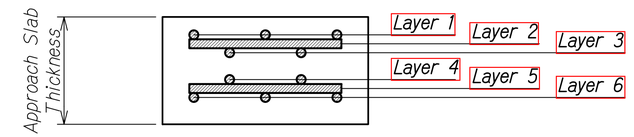
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S9.4 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	188	295





REINFORCING DETAIL

Scale: 1 1/2" = 1'-0"

MAUKA APPROACH SLAB PLAN

A S10.1 S10.1

Scale: 1/2" = 1'-0"

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DATE

DRAWING NAME: Z:\OD ONDONG\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\06-03-21B BID FINAL NEW XBASE\AMP-S1001 APPR SLAB PLAN.DWG PLOT TIME: 08-04-21, 1:08 PM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

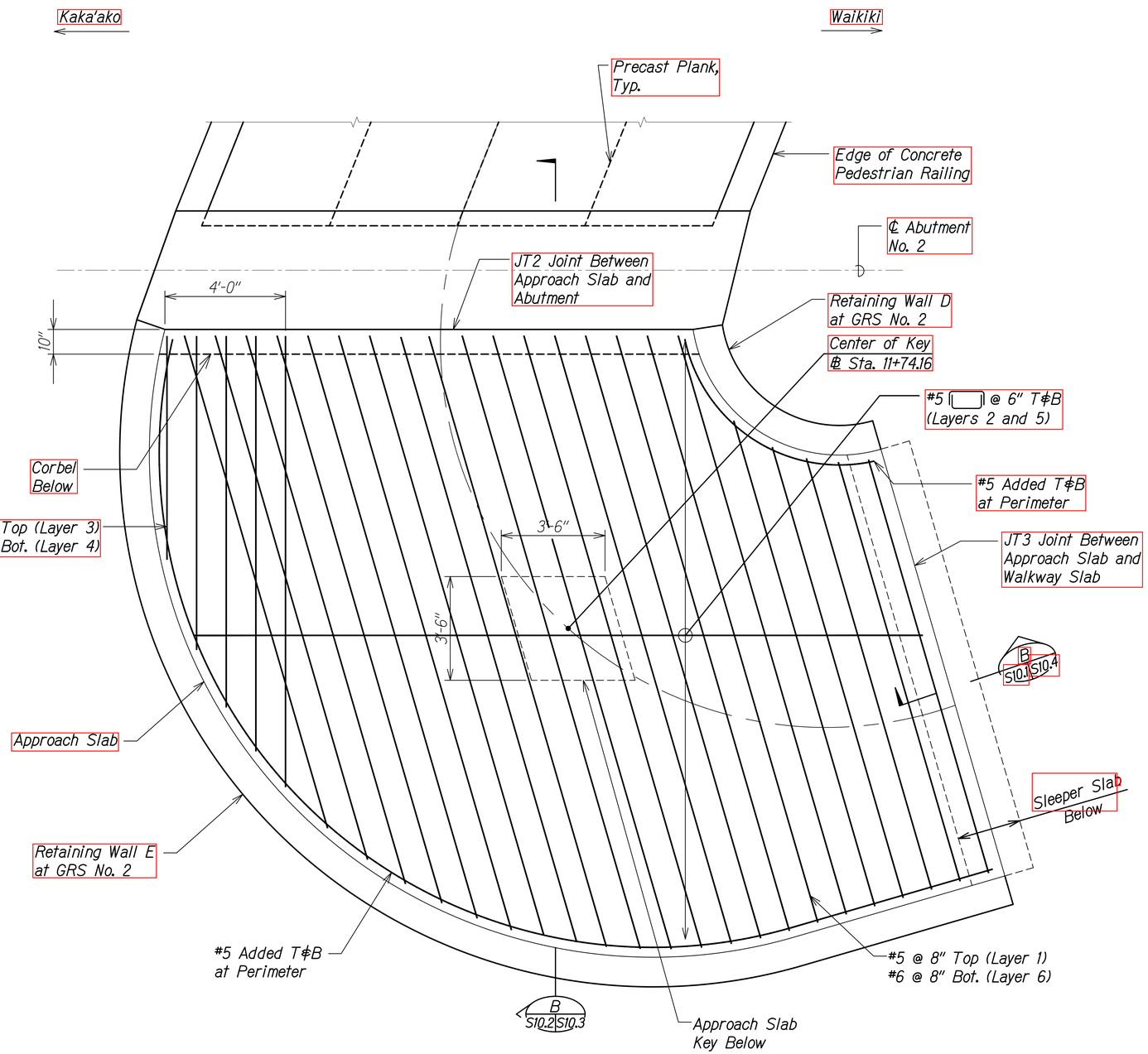
APPROACH SLAB PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S10.1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	189	295



MAKAI APPROACH SLAB PLAN

Scale: 1/2" = 1'-0"

A
S10.2 S10.2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD ONDONGA\OD CB PROJECTS\20-012-ALA MOANA PED BR-HAWD1 CAD\08-03-21B BID FINAL NEW KBASE\AMP-S1601 APPR SLAB PLAN.DWG PLOT TIME: 08-04-21, 9:59 AM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

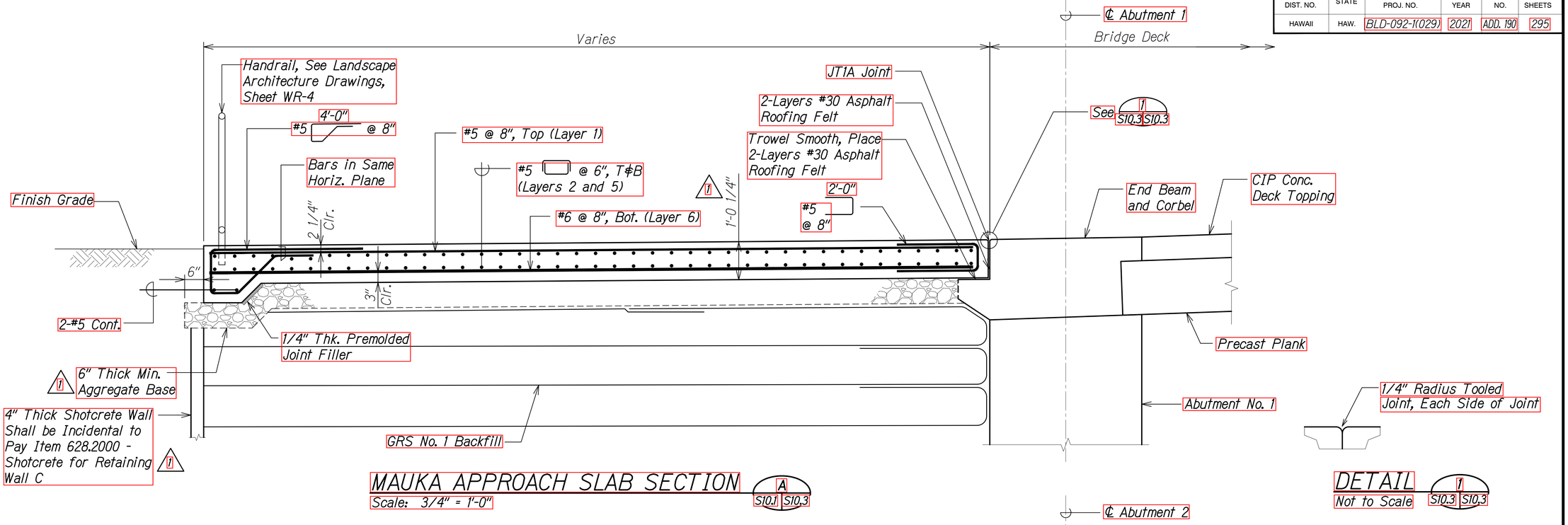
APPROACH SLAB PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S10.2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 190	295



DATE	REVISION
1 8/30/21	Revised Dimensions and Notes; Added Notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

APPROACH SLAB SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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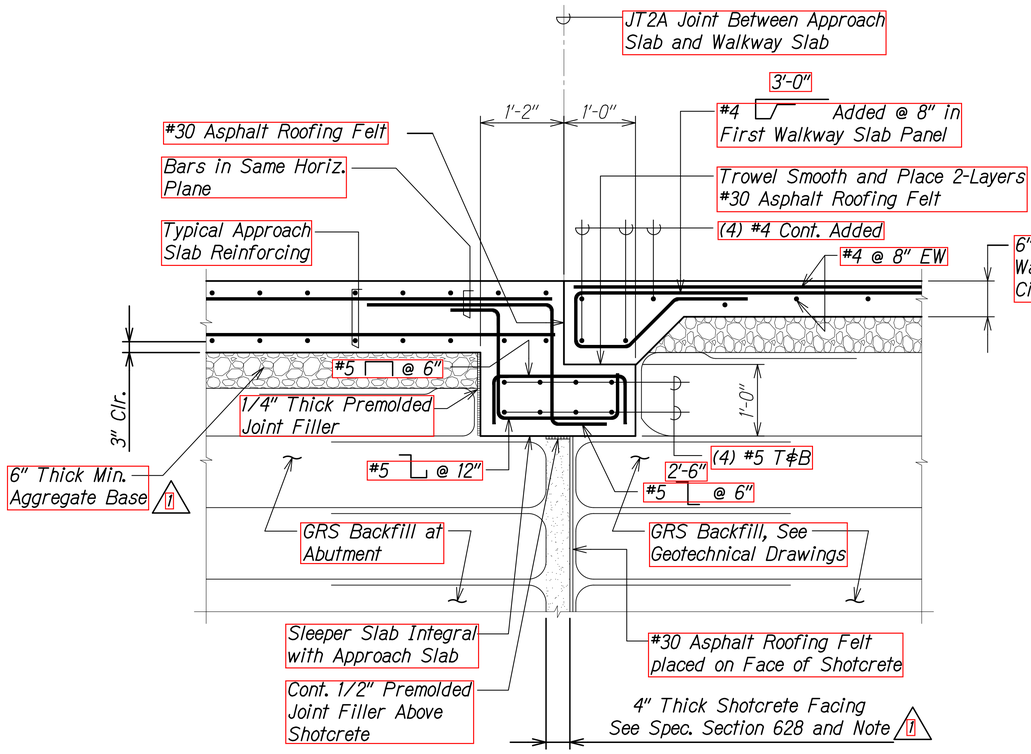
SHEET No. S10.3 OF 5 SHEETS

ADD. 190

ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HA\01 CAD\08-30-21 ADD_WP-S1003_APPR SLAB SECT ADD1.DWG PLOT TIME: 08-30-21 (11:07 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 191	295



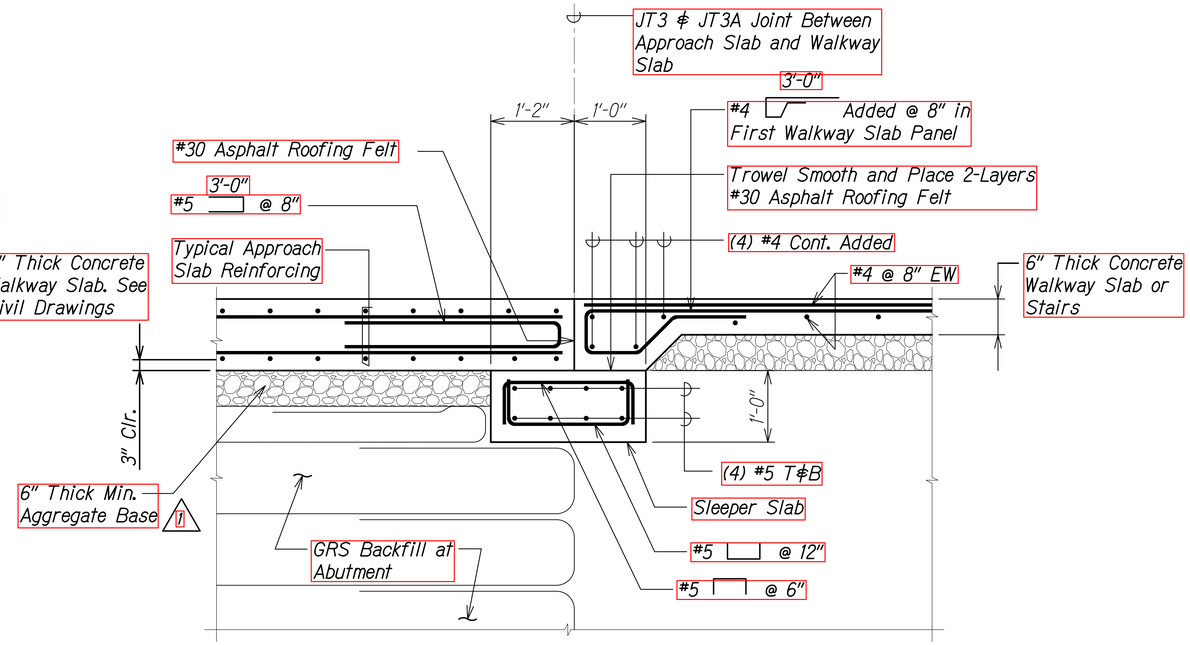
1 **Note:**

4" Shotcrete shall be incidental to Pay Item 628.2000 - Shotcrete for Retaining Wall C.

APPROACH SLAB SECTION

Scale: 1" = 1'-0"

A — S10.1 | S10.4



APPROACH SLAB SECTION

Scale: 1" = 1'-0"

B — S10.1 | S10.4 | S10.2

1	8/30/21	Revised and Added Notes
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

APPROACH SLAB SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted — Date: July 2021

SHEET No. S10.4 OF 5 SHEETS

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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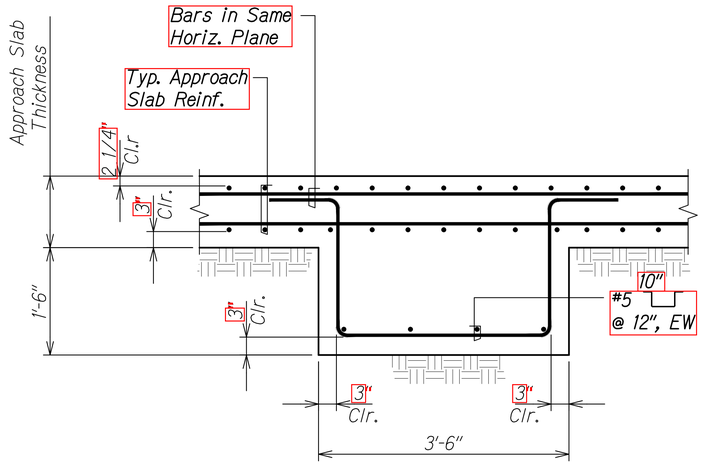
SIGNATURE — 4-30-22 EXPIRATION DATE OF THE LICENSE

DATE	SURVEY PLOTTED BY	ORIGINAL PLAN
	DRAWN BY	
	TRACED BY	NOTE BOOK
	DESIGNED BY	
	QUANTITIES BY	No.
	CHECKED BY	

DRAWING NAME: Z:\OD ENGING\20-012-ALA MOANA PED BR-HAW\01 CAD\08-30-21 ADD\YAMP-S1604 APPROACH SLAB ADD1.DWG PLOT TIME: 08-30-21 11:23 AM)

ADD. 191

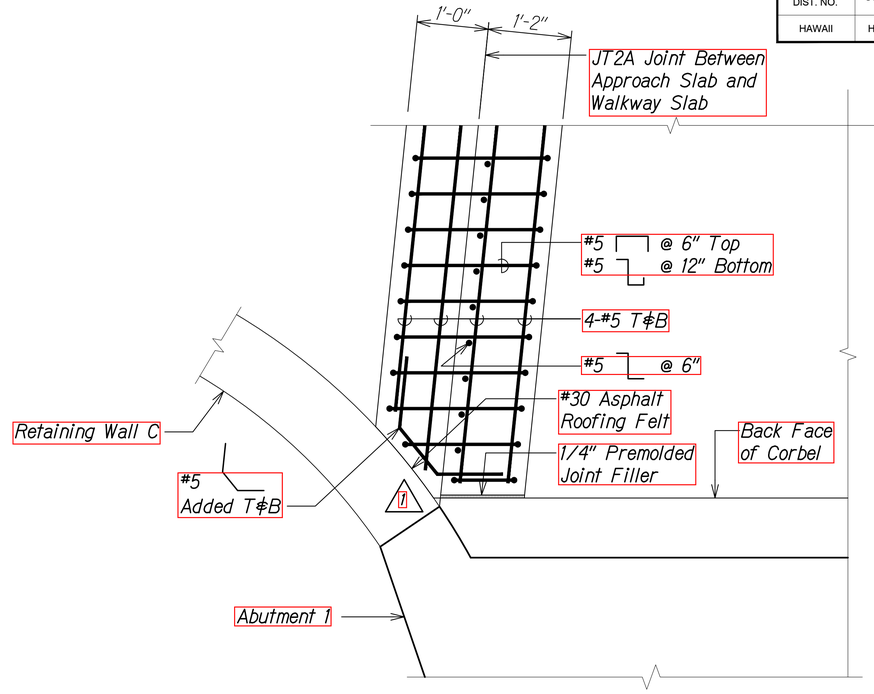
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 192	295



APPROACH SLAB KEY DETAIL

Scale: 1" = 1'-0"

S10.5 | S10.5



SLEEPER SLAB REINFORCING DETAIL

Scale: 1" = 1'-0"

S10.5 | S10.5

DATE	REVISION
1 8/30/21	Revised Reinf. & Added Jt. Filler

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

APPROACH SLAB AND SLEEPER SLAB DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S10.5 OF 5 SHEETS

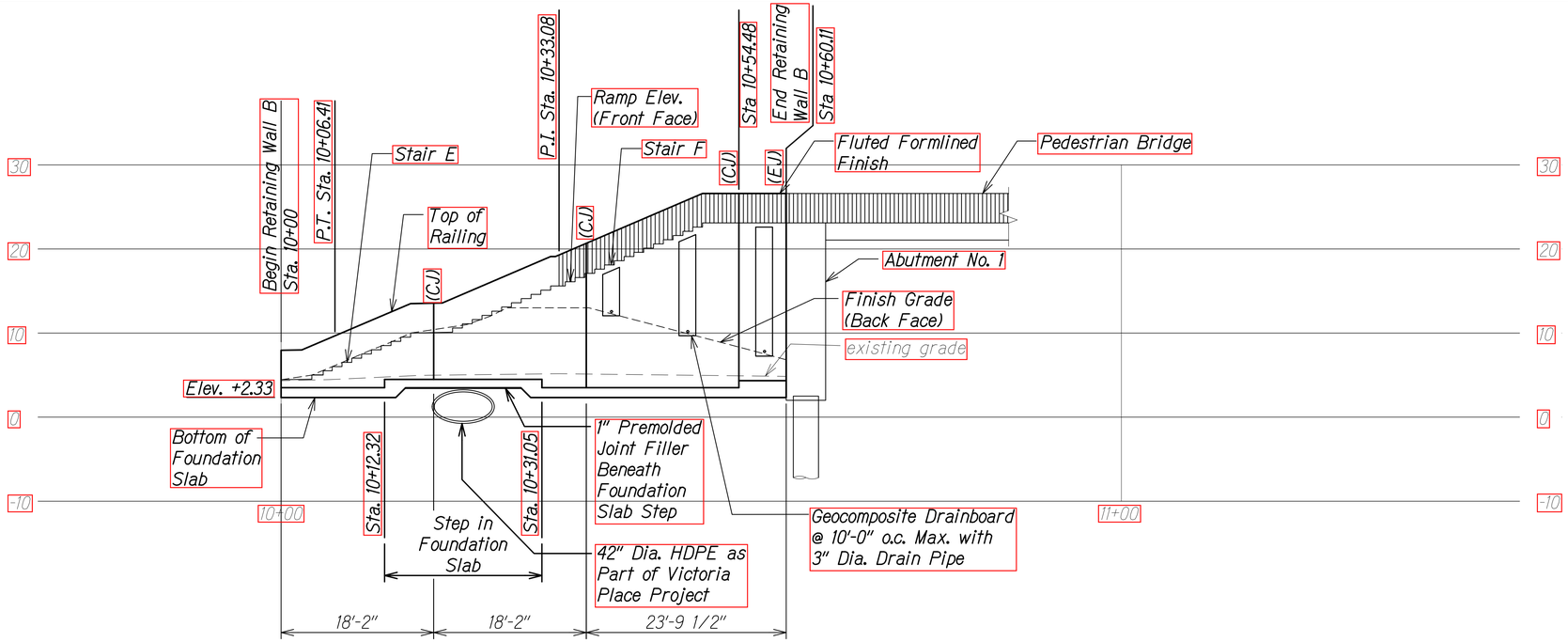
ADD. 192

ORIGINAL PLAN
NOTE BOOK
No.

DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD\AMP-S1005 APPR SLAB PLAN ADD.DWG PLOT TIME: 08-30-21, 11:23 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	193	295



RETAINING WALL B PROFILE

Scale: 1/8" = 1'-0"

Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Vertical joints in Formlined Finish must align with vertical control joints (CJ) in retaining wall and railing.
3. Load Transfer Platform beneath foundation slab not shown for clarity.

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1101 RETG WALL PROFILES.DWG PLOT TIME: 08-04-21, 10:01 AM

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY
	DATE

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

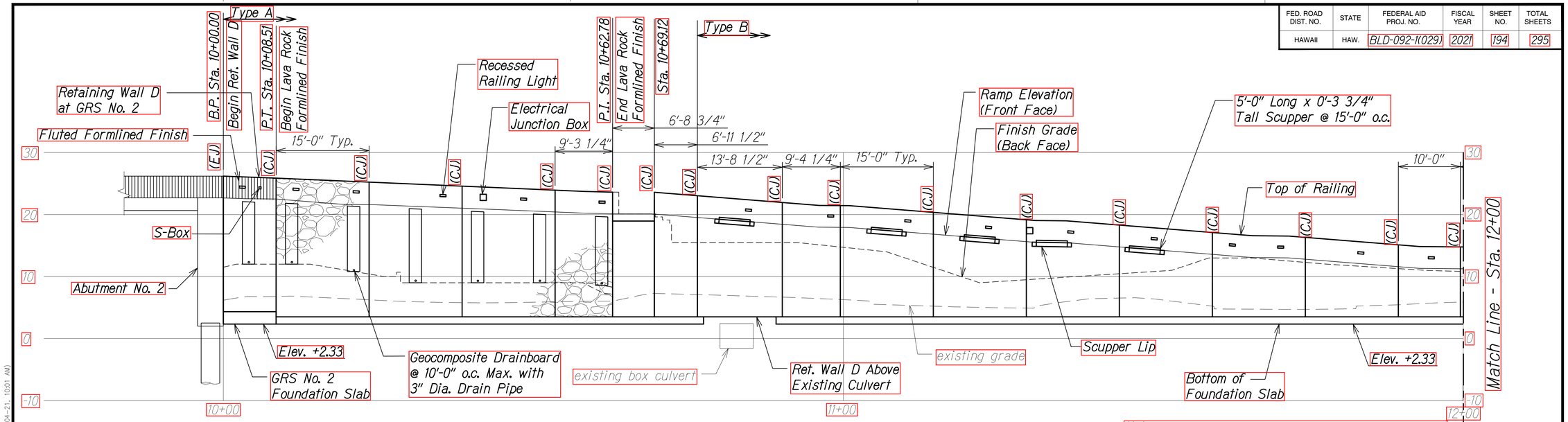
WALL B PROFILE

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S11.1 OF 6 SHEETS

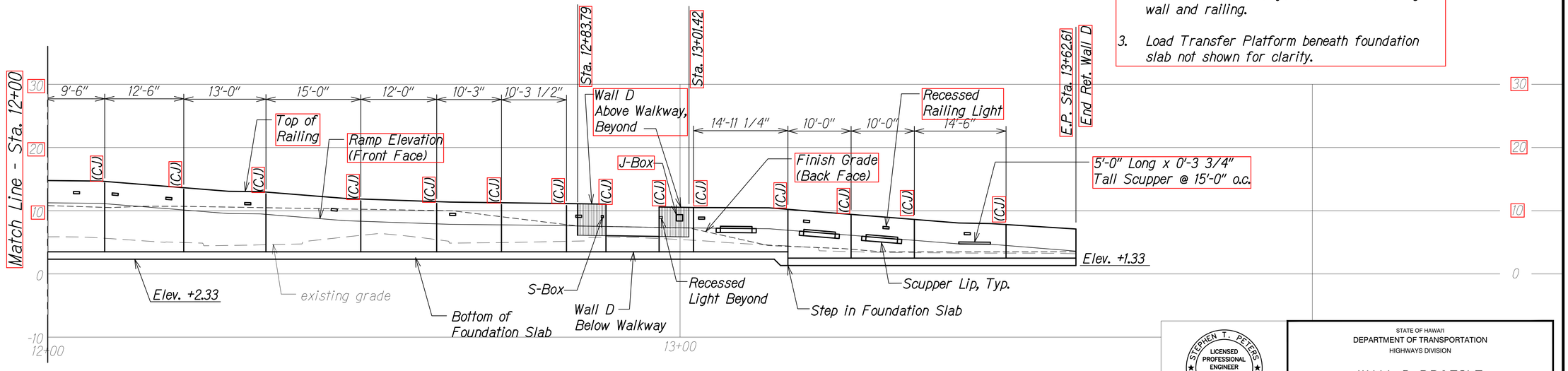
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	194	295



	Vert. Reinf. at Wall Interior Face
Type A	#5 @ 6"
Type B	#5 @ 9"
See Sht. S12.4 - S12.8, S12.11	

Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Vertical joints in Formlined Finish must align with vertical control joints (CJ) in retaining wall and railing.
3. Load Transfer Platform beneath foundation slab not shown for clarity.



RETAINING WALL D PROFILE

Scale: 1/8" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL D PROFILE

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

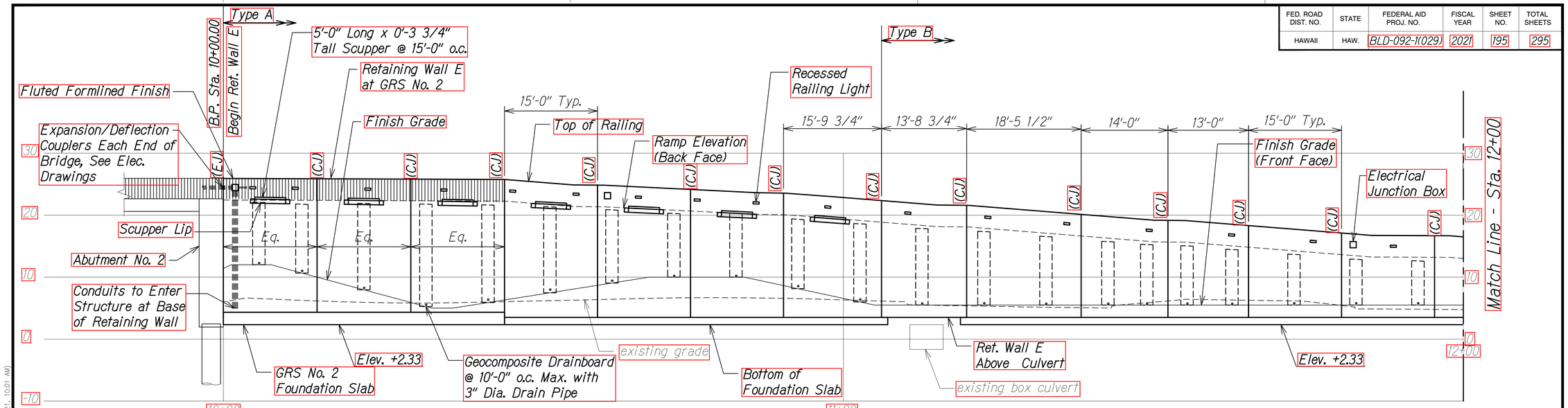
SHEET No. S11.2 OF 6 SHEETS

DATE	REVISIONS

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\JOB ONGOING\JOB CB PROJECTS\20-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASES\MP-S1101 RETG WALL PROFILES.DWG PLOT TIME: 08-04-21, 10:01 AM

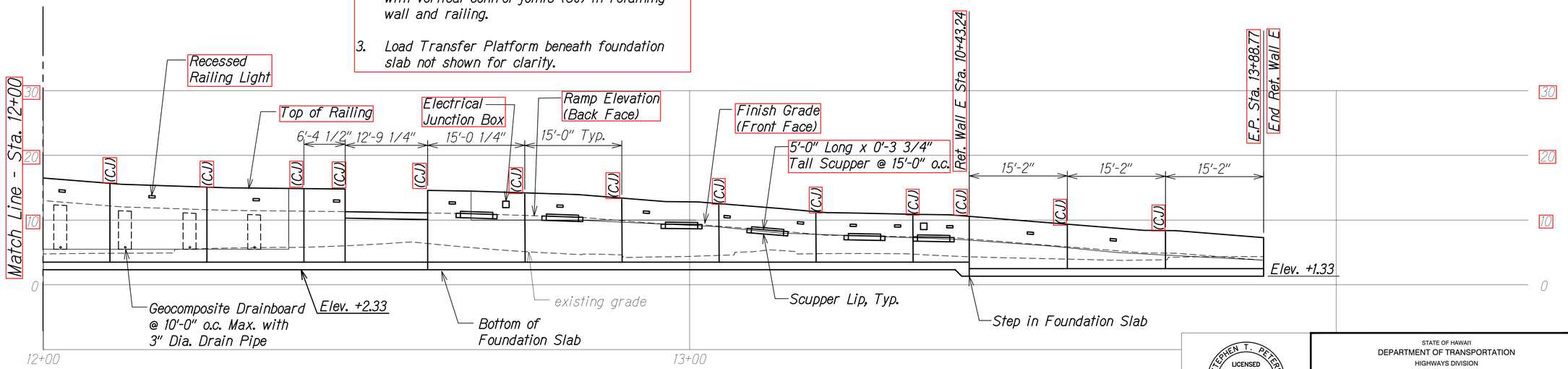
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	195	295



Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Vertical joints in Formlined Finish must align with vertical control joints (CJ) in retaining wall and railing.
3. Load Transfer Platform beneath foundation slab not shown for clarity.

	Vert. Reinf. at Wall Interior Face
Type A	#5 @ 6"
Type B	#5 @ 9"
See Sht. S12.4 - S12.8, S12.11	



RETAINING WALL E PROFILE

Scale: 1/8" = 1'-0"

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL E PROFILE

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

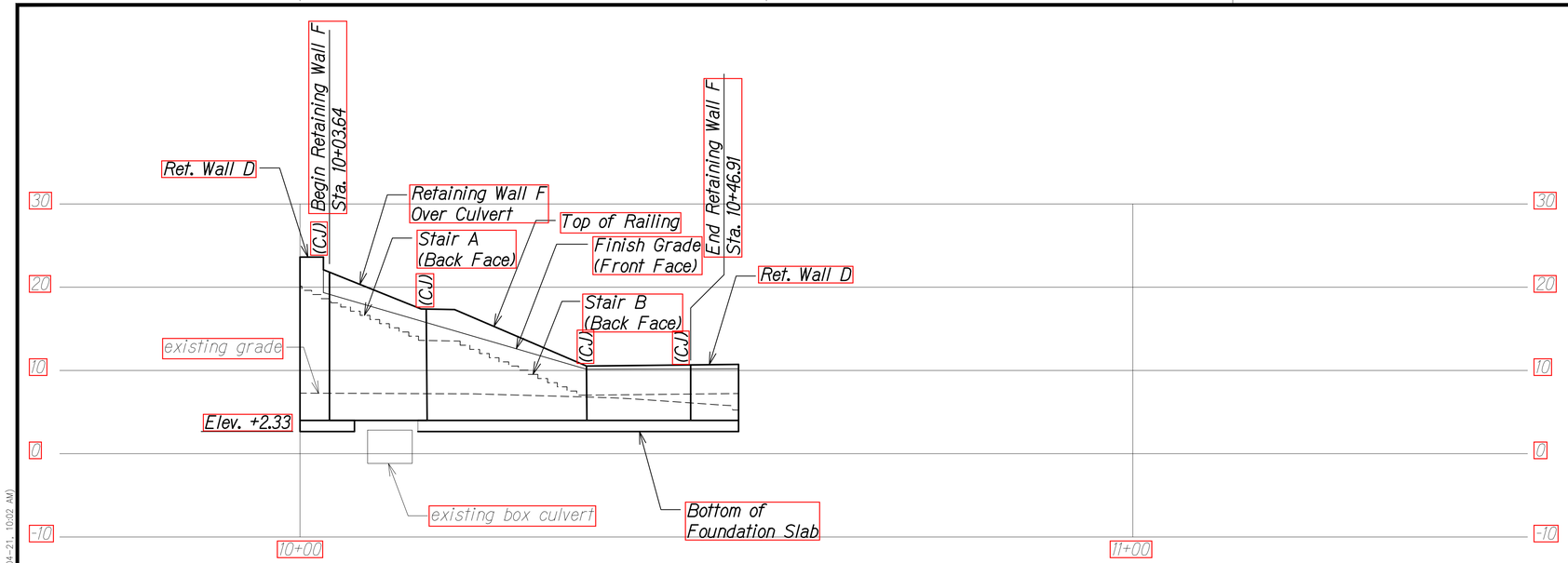
Scale: As Noted — Date: July 2021

SHEET No. S11.3 OF 6 SHEETS

DATE	REVISED
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

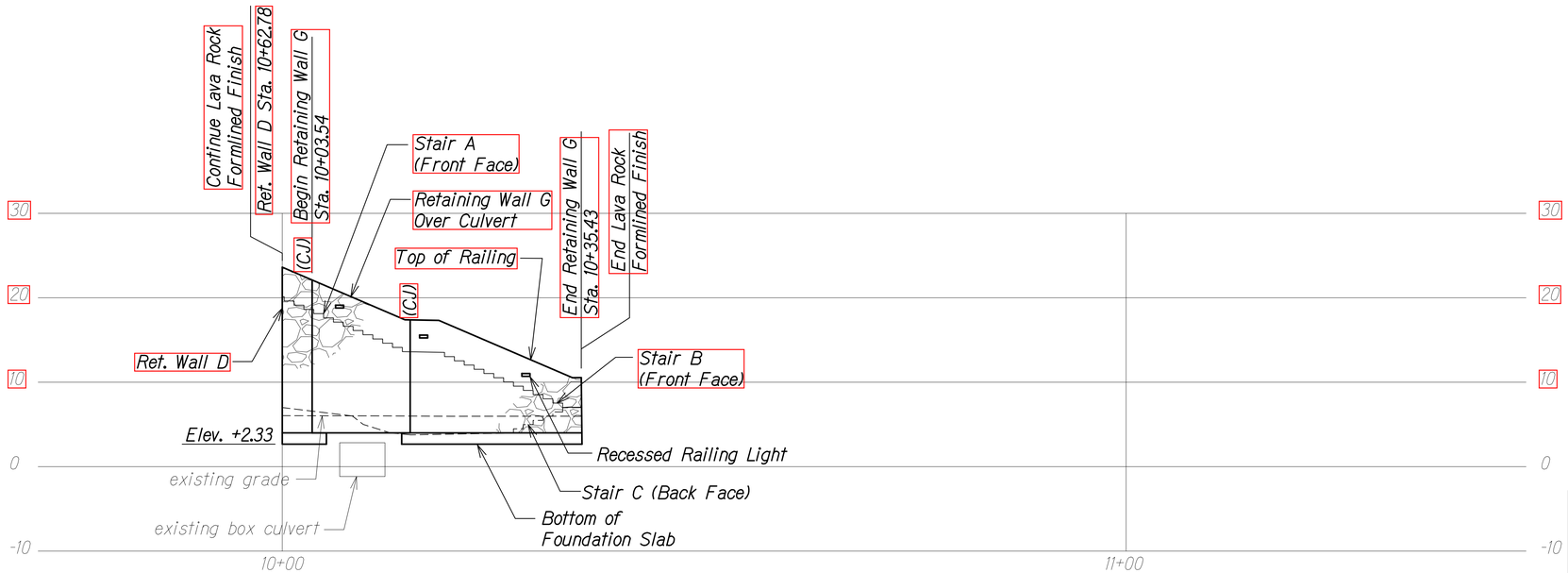
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	196	295



RETAINING WALL F PROFILE

Scale: 1/8" = 1'-0"



RETAINING WALL G PROFILE

Scale: 1/8" = 1'-0"

Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Vertical joints in Formlined Finish must align with vertical control joints (CJ) in retaining wall and railing.
3. Load Transfer Platform beneath foundation slab not shown for clarity.

ISSUED	DATE

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

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NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL F AND G PROFILES

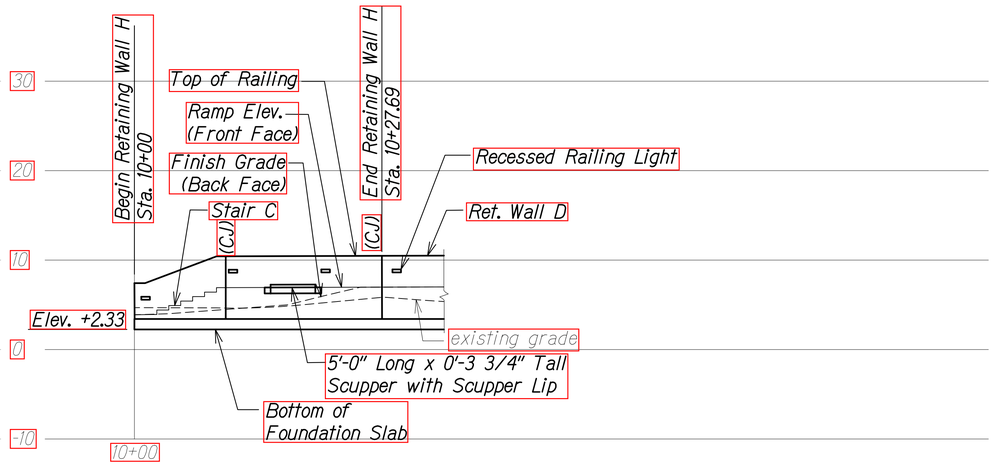
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted — Date: July 2021

SHEET No. S11.4 OF 6 SHEETS

DRAWING NAME: Z:\OD ONGOING\OD 128 PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S1101 RETG WALL PROFILES.DWG PLOT TIME: 08-04-21, 10:02 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	197	295



RETAINING WALL H PROFILE

Scale: 1/8" = 1'-0"

Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Load Transfer Platform beneath foundation slab not shown for clarity.

ORIGINAL PLAN

NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DATE
[redacted]

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HHV\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1101 RETG WALL PROFILES.DWG PLOT TIME: 08-04-21, 10:02 AM

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NO. 17097-S
HAWAII, U.S.A.

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HIGHWAYS DIVISION

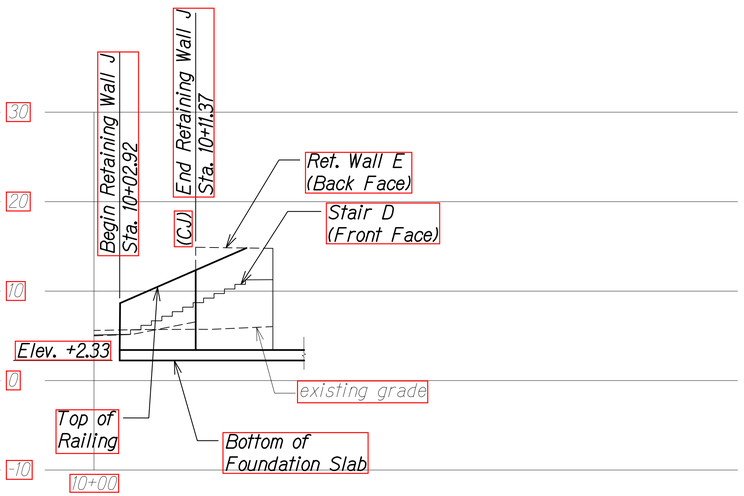
WALL H PROFILE

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

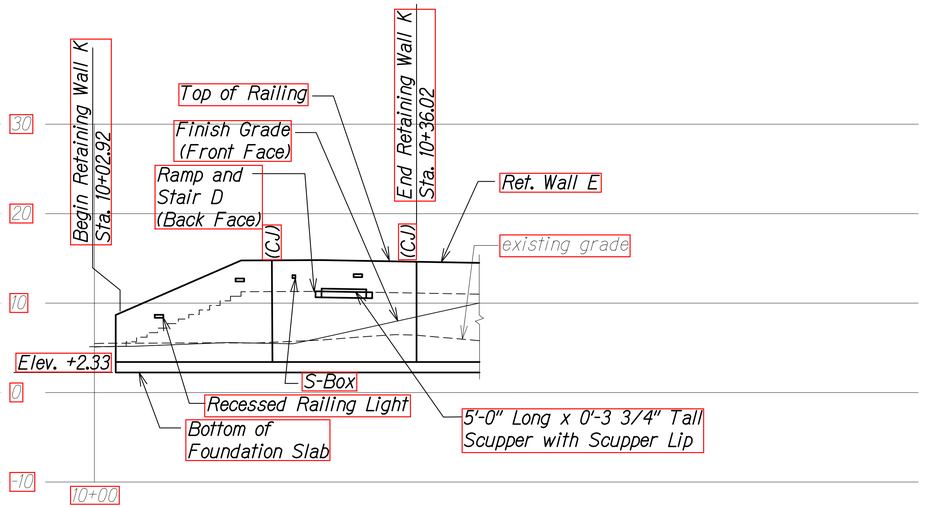
SHEET No. S11.5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	198	295



RETAINING WALL J PROFILE

Scale: 1/8" = 1'-0"



RETAINING WALL K PROFILE

Scale: 1/8" = 1'-0"

Notes:

1. Top of railing elevation shall be 3'-6" above top of ramp elevation. See Civil drawings, sheet series CE, for ramp elevations.
2. Load Transfer Platform beneath foundation slab not shown for clarity.

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY
	DATE

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASES\MP-S1101 RETG WALL PROFILES.DWG PLOT TIME:

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NO. 17097-S
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HIGHWAYS DIVISION

WALL J AND K PROFILES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

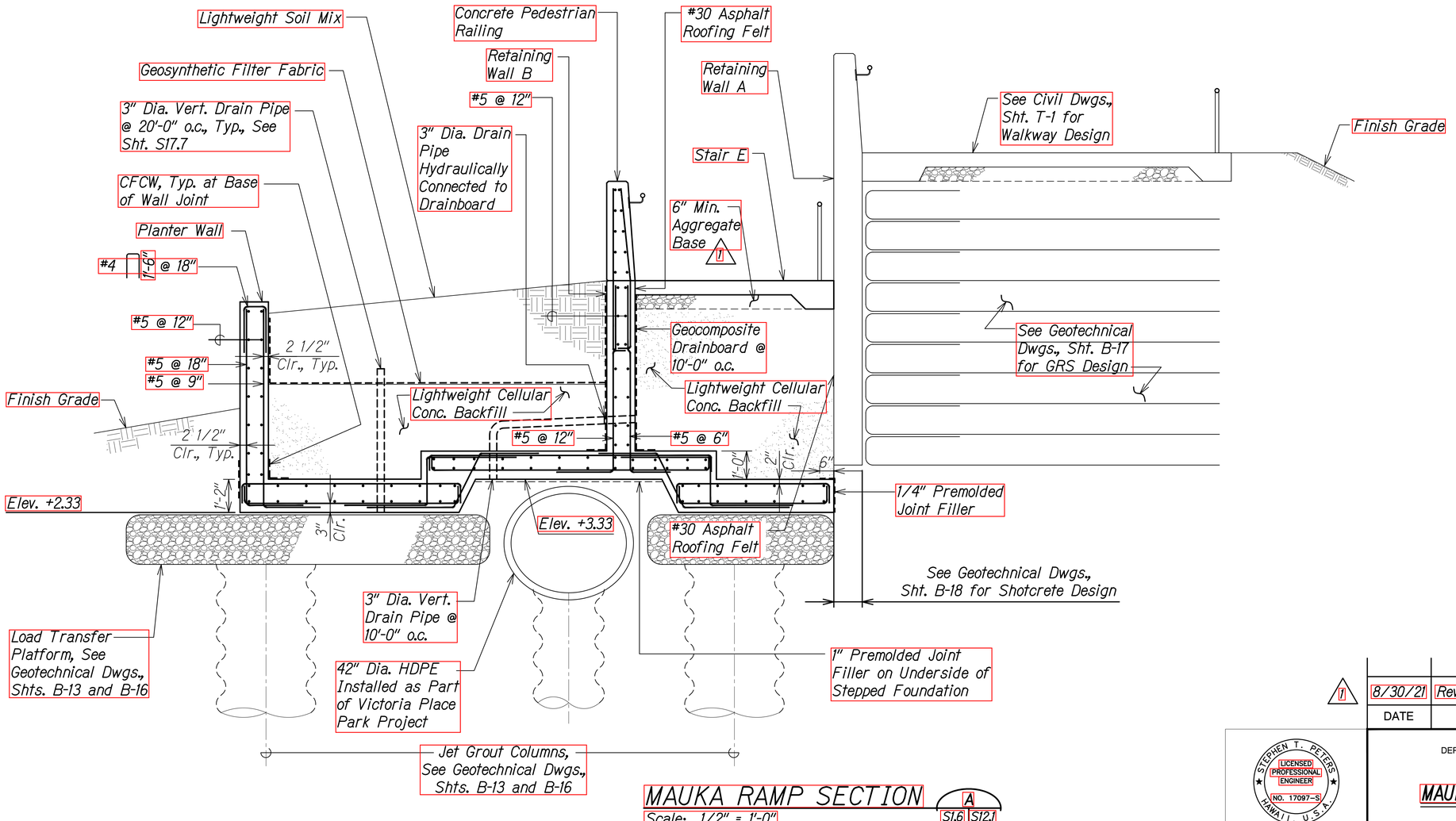
Scale: As Noted Date: July 2021

SHEET No. S11.6 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 199	295

Makai

Mauka



MAUKA RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.6 S12.1

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAUKA RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SHEET No. S12.1 OF 10 SHEETS

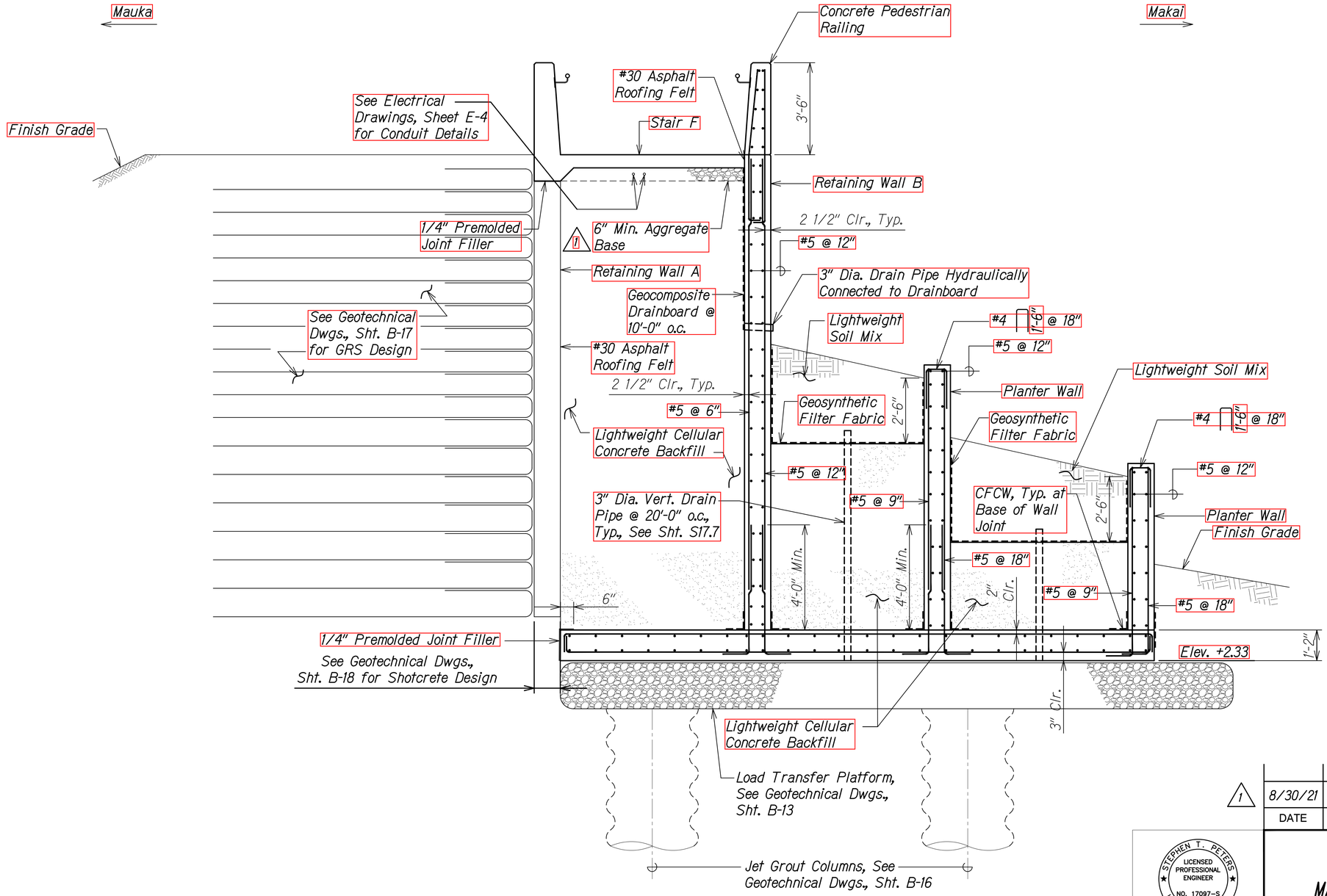
ADD. 199

DATE | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY

ORIGINAL PLANS | NOTE BOOK | No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\AMP-S120 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:25 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 200	295



MAUKA RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.6 | S12.2

DATE	REVISION
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAUKA RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S12.2 OF 10 SHEETS

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ORIGINAL PLAN
NOTE BOOK No.

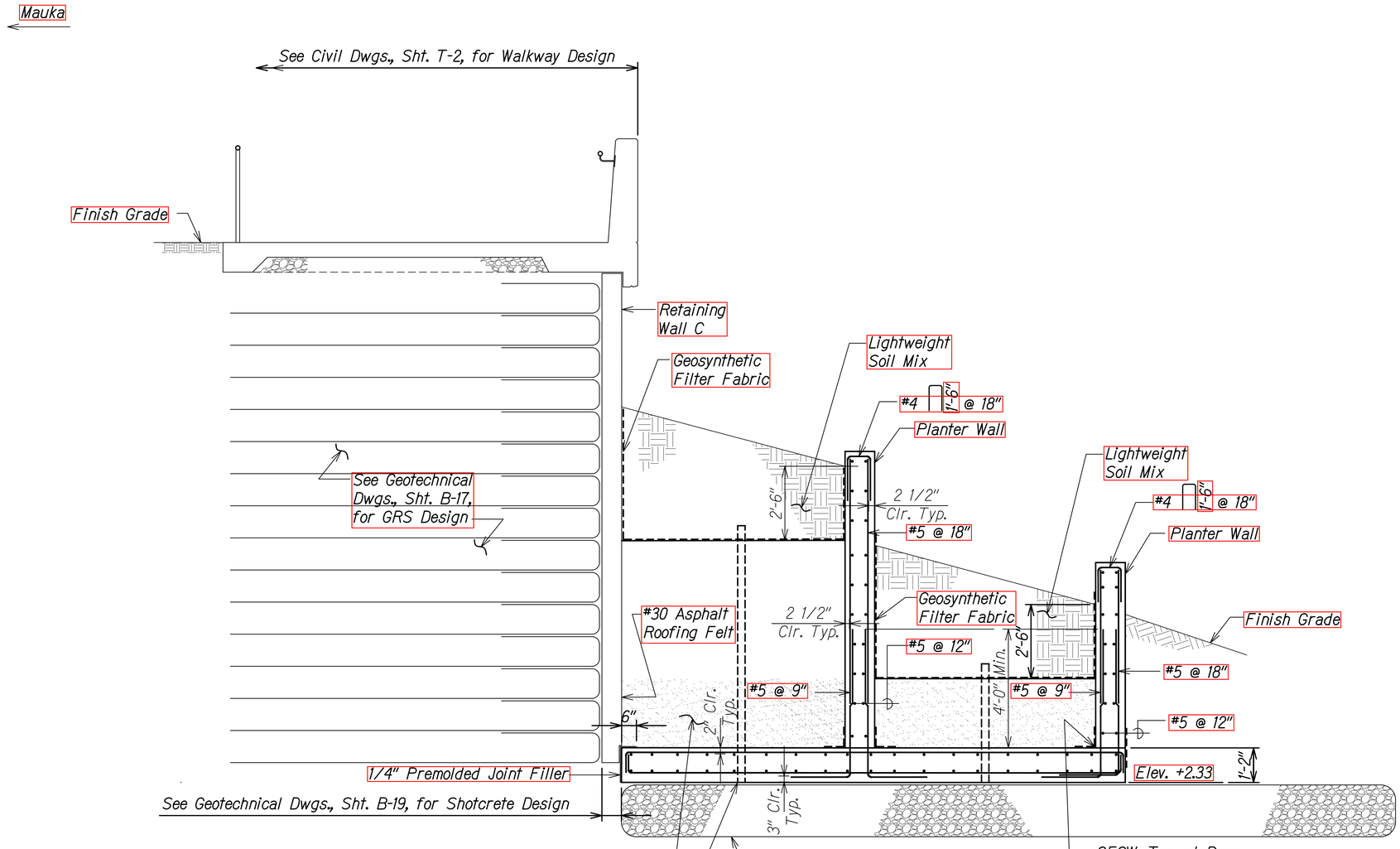
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DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DATE

DRAWING NAME: Z:\OD ENGDNG\29-012-ALA MOANA PED BR-HWA01 CAD\08-30-21 ADD\AMP-S1201 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:25 AM

ADD. 200

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	201	295



MAUKA RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.6 S12.3

DRAWING NAME: Z:\JOB ONGOING\JOB CB PROJECTS\20-012-ALA MOANA PED BR-HI\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S1201 RAMP SECTS.DWG PLOT TIME: 08-03-21, 6:57 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

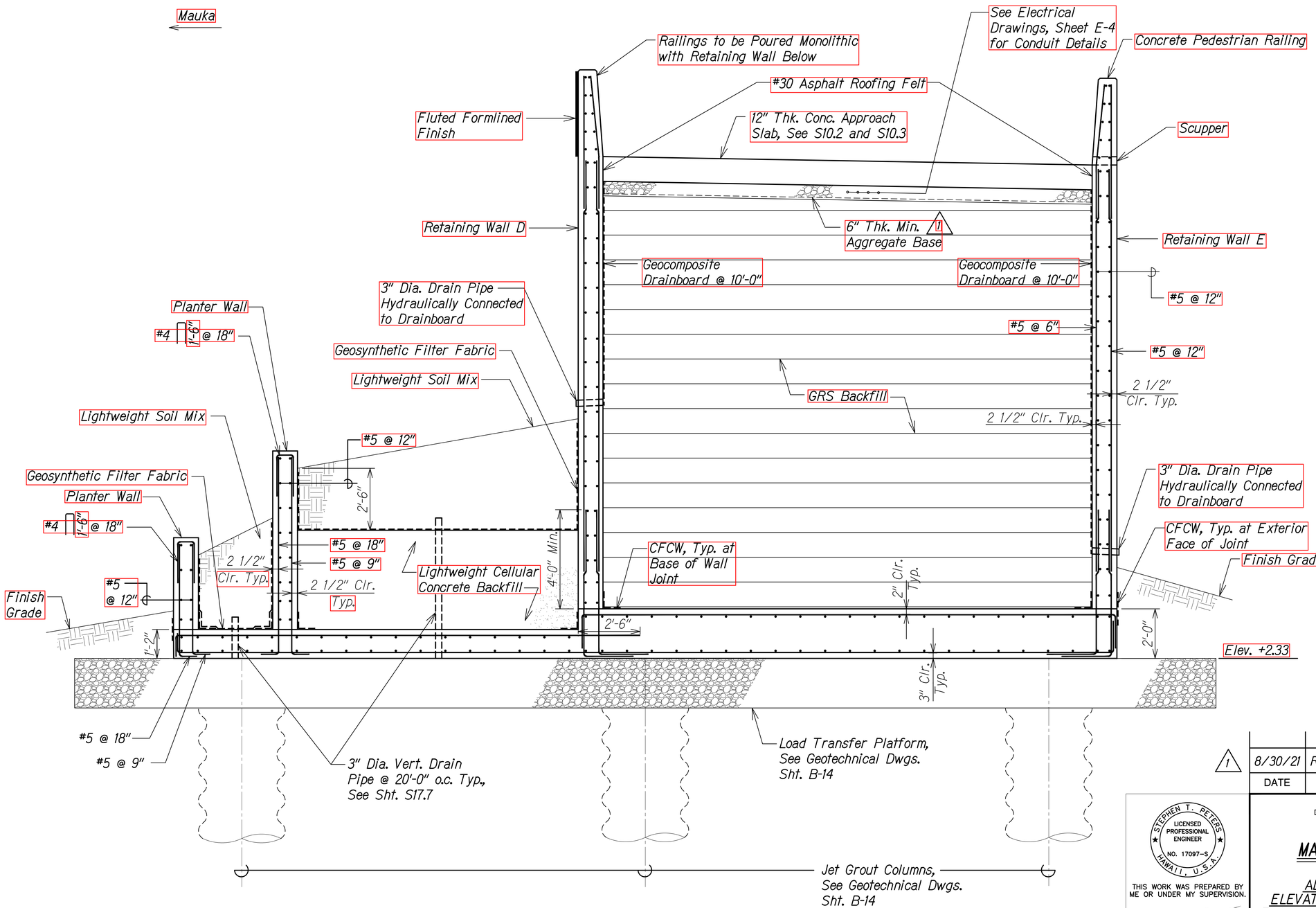
MAUKA RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S12.3 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 202	295



MAKAI RAMP SECTION AT APPROACH SLAB

Scale: 1/2" = 1'-0"

A S1.11 | S12.4

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SURVEY PLOTTED BY
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QUANTITIES BY
CHECKED BY

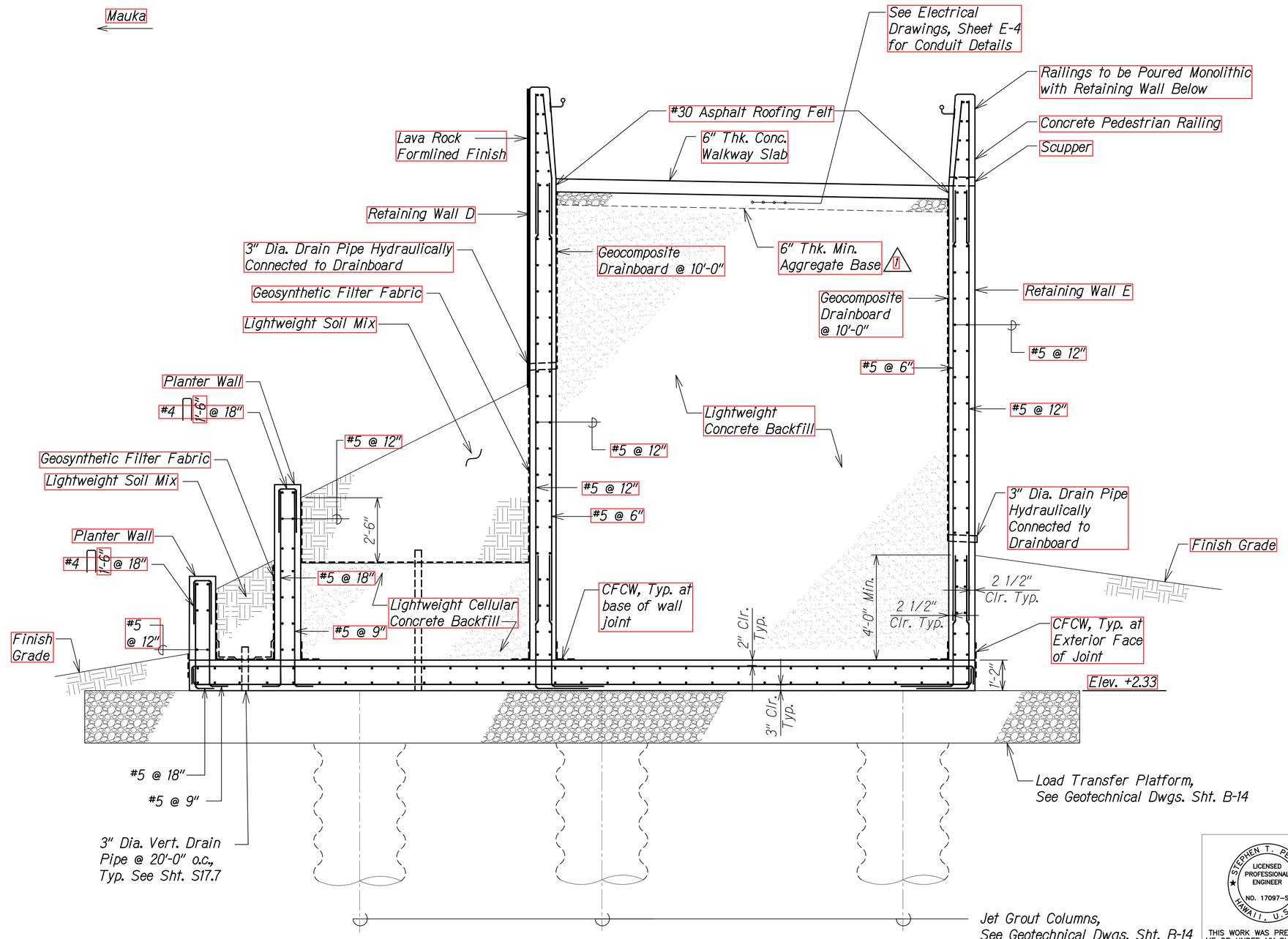
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ENGINEERING\09-012-ALA MOANA PED BR-HAWO1 CAD\08-30-21 ADD\ANP-S1201 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:26 AM)

SHEET No. S12.4 OF 10 SHEETS

ADD. 202

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 203	295



MAKAI RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.11 | S12.5

DATE	REVISION
8/30/21	Revised Note

1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY
DATE

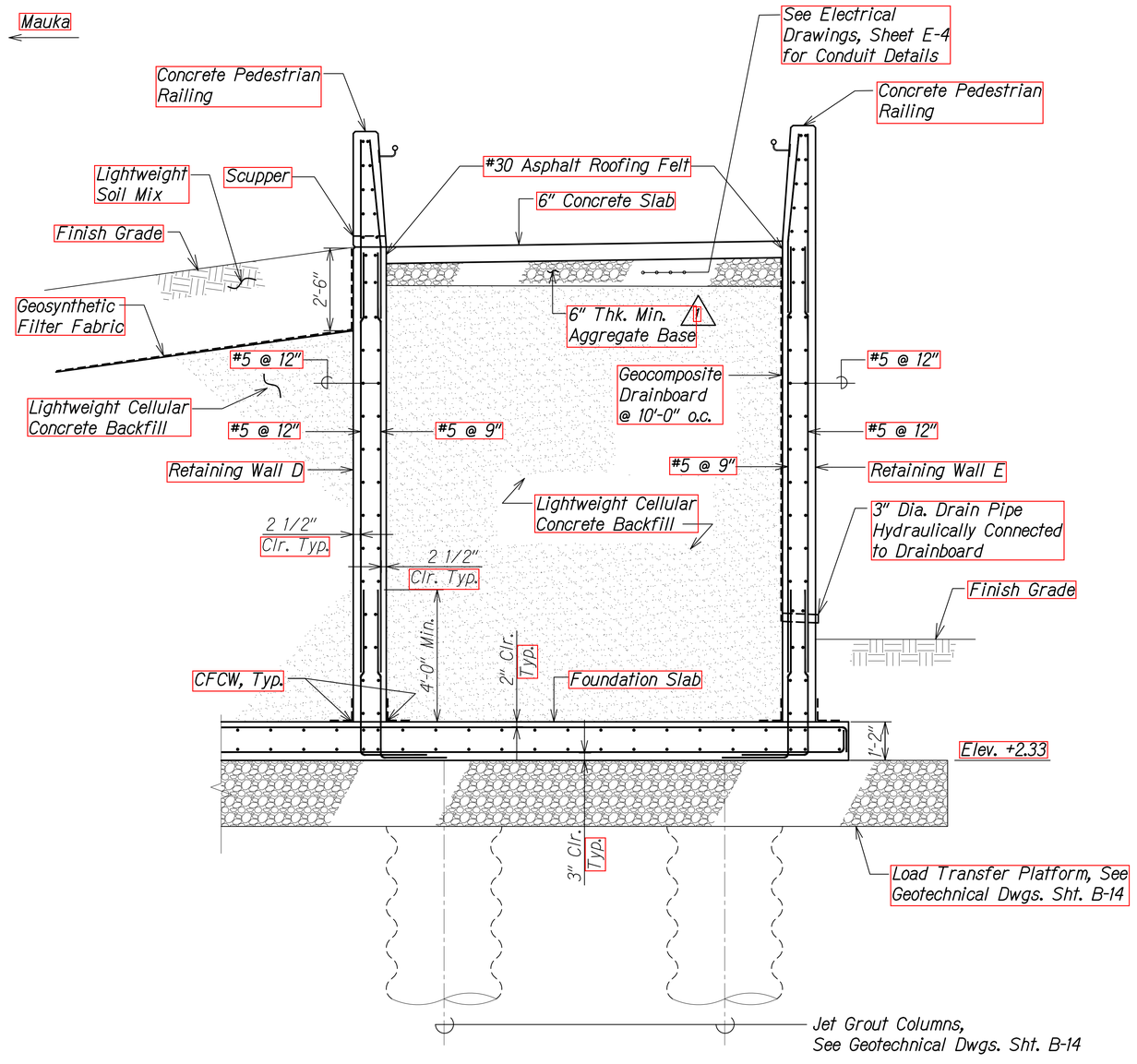
ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\VAP-S1201 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:27 AM

SHEET No. S12.5 OF 10 SHEETS

ADD. 203

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 204	295



RAMP SECTION A

Scale: 1/2" = 1'-0"

S1.11 | S12.6

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

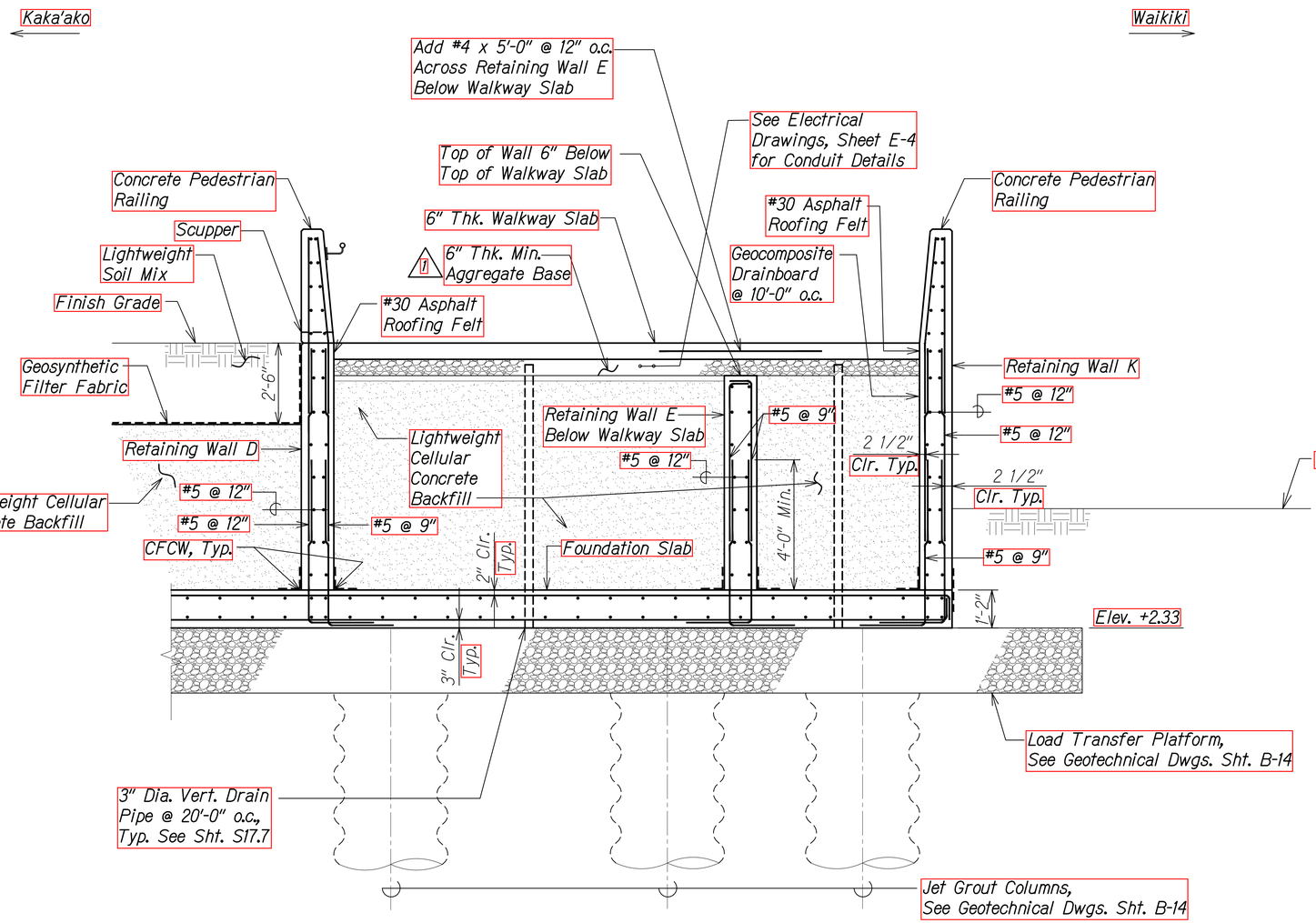
SHEET No. S12.6 OF 10 SHEETS

ADD. 204

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | REVISED

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD\AMP-S1206 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21 11:27 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 205	295



RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.11 | S12.7

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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DESIGNED BY
QUANTITIES BY
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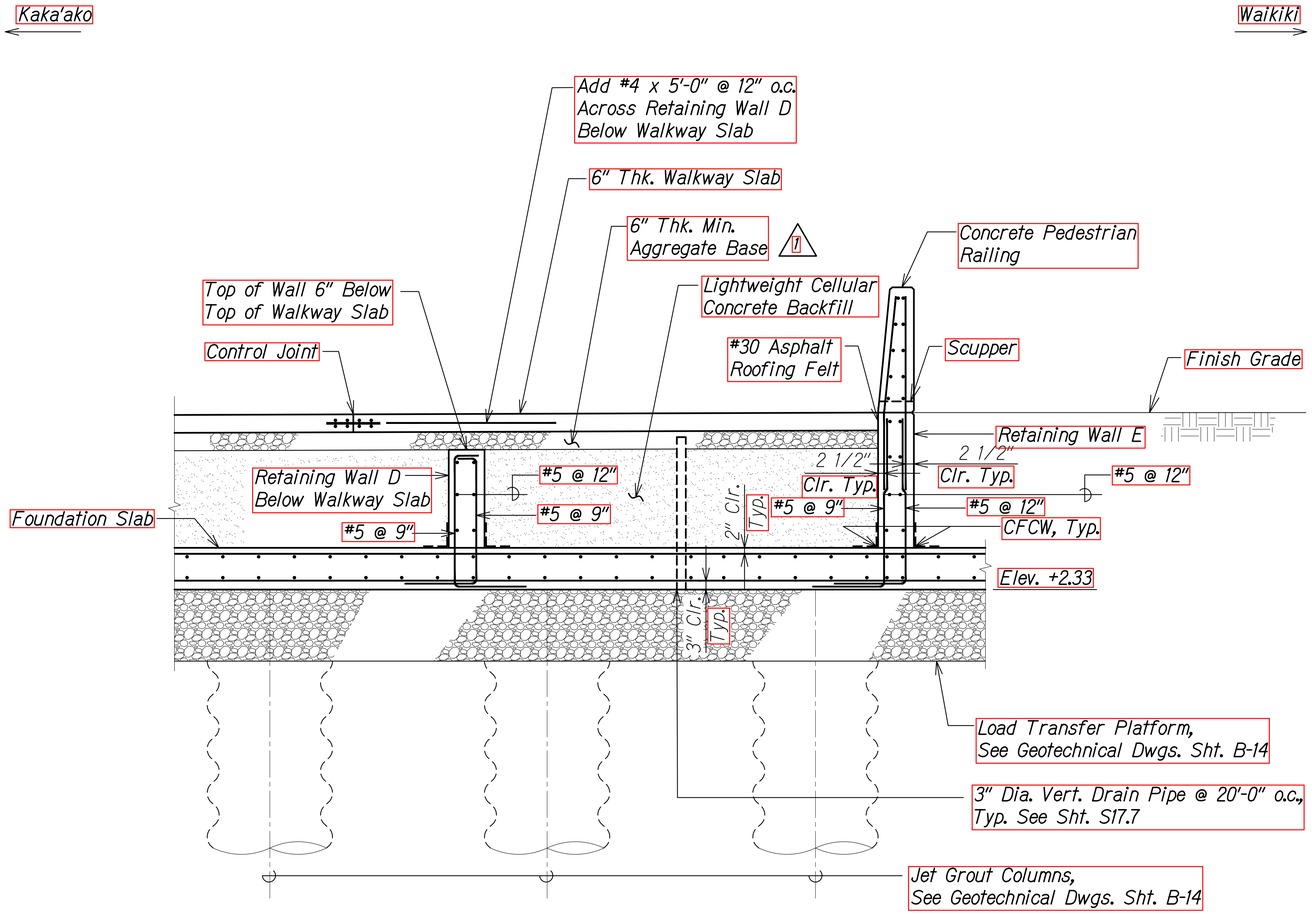
ORIGINAL PLAN
NOTE BOOK
No.

SHEET No. S12.7 OF 10 SHEETS

ADD. 205

DRAWING NAME: Z:\OD ENGDNGS\29-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD1\MP-S1206 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:28 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 206	295



RAMP SECTION A
Scale: 1/2" = 1'-0"
S1.11 | S12.8

DATE	SURVEY PLOTTED BY	ORIGINAL PLAN
	DRAWN BY	
	TRACED BY	NOTE BOOK
	DESIGNED BY	
	QUANTITIES BY	No.
	CHECKED BY	

1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S12.8 OF 10 SHEETS

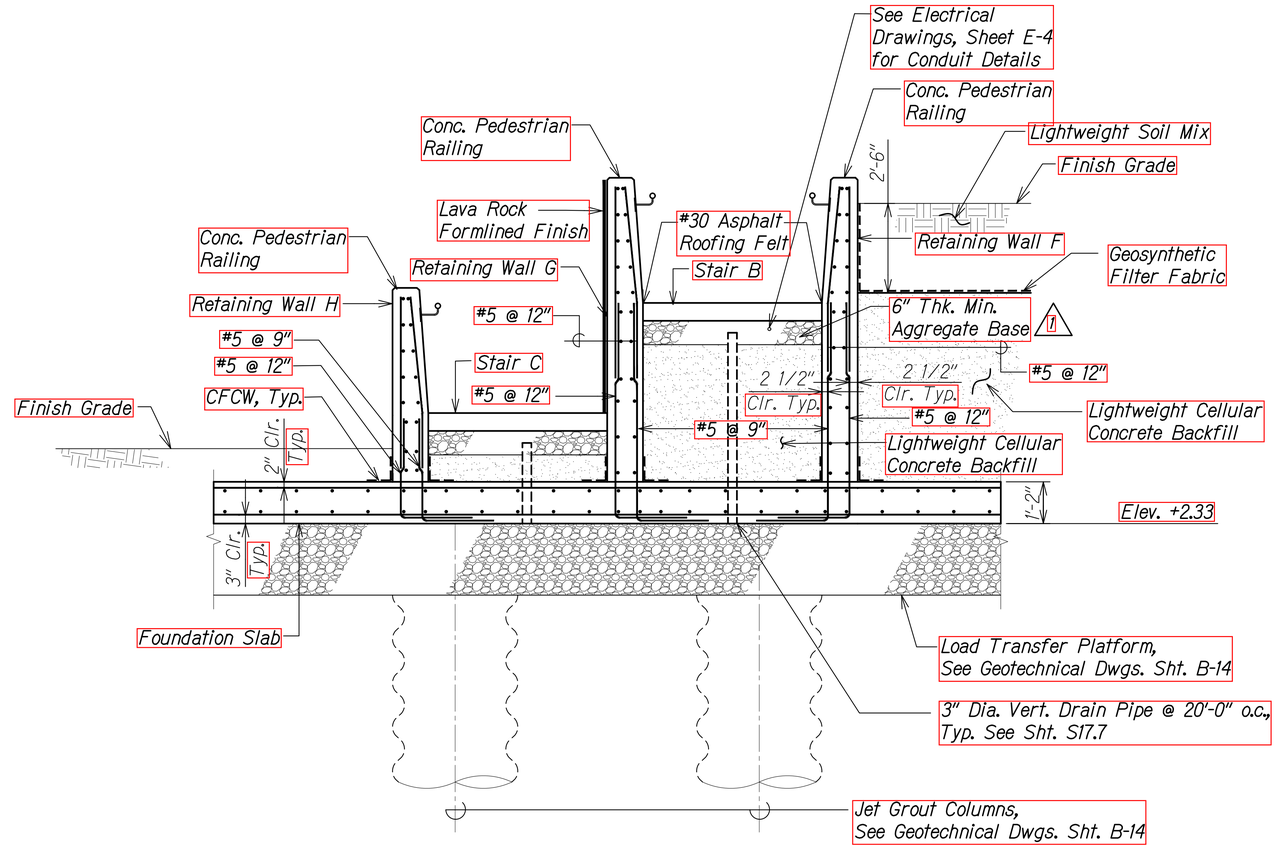
ADD. 206

DRAWING NAME: Z:\OD ENGDNGS\29-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD1\MP-S1206 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:28 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 207	295

Mauka ←

→ Makai



RAMP SECTION

Scale: 1/2" = 1'-0"

A S1.11 | S12.9

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S12.9 OF 10 SHEETS

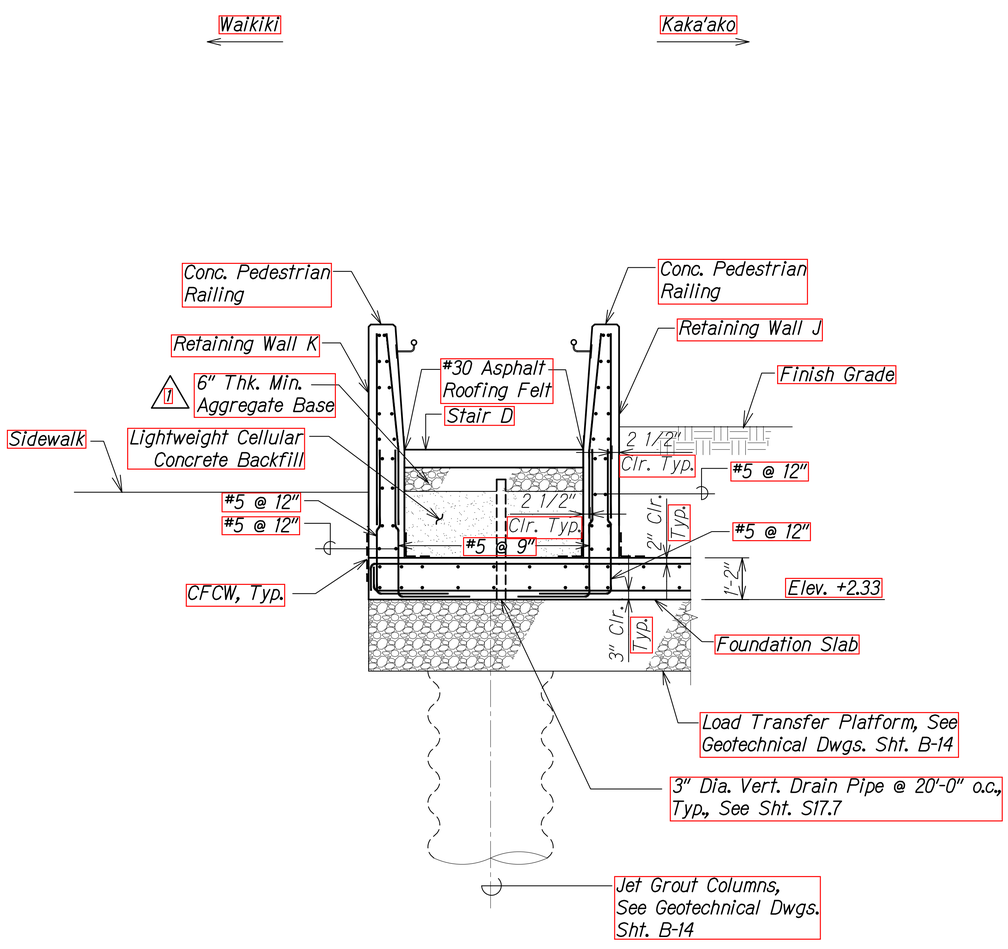
ADD. 207

ORIGINAL PLAN | NOTE BOOK No.

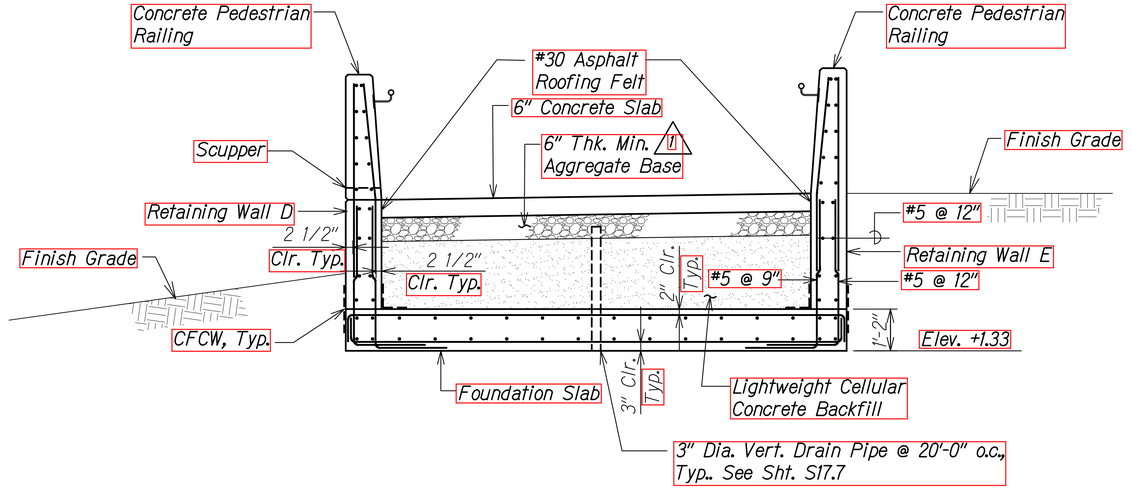
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGONGO\20-012-ALA MOANA PED BR-HA\01 CAD\08-30-21 ADD\YAMP-S1206 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:29 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 208	295



RAMP SECTION A
Scale: 1/2" = 1'-0"
S1.11 S12.10



RAMP SECTION B
Scale: 1/2" = 1'-0"
S1.11 S12.10

DATE	REVISION
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAKAI RAMP SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
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NO. 17097-S
HAWAII, U.S.A.

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DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY

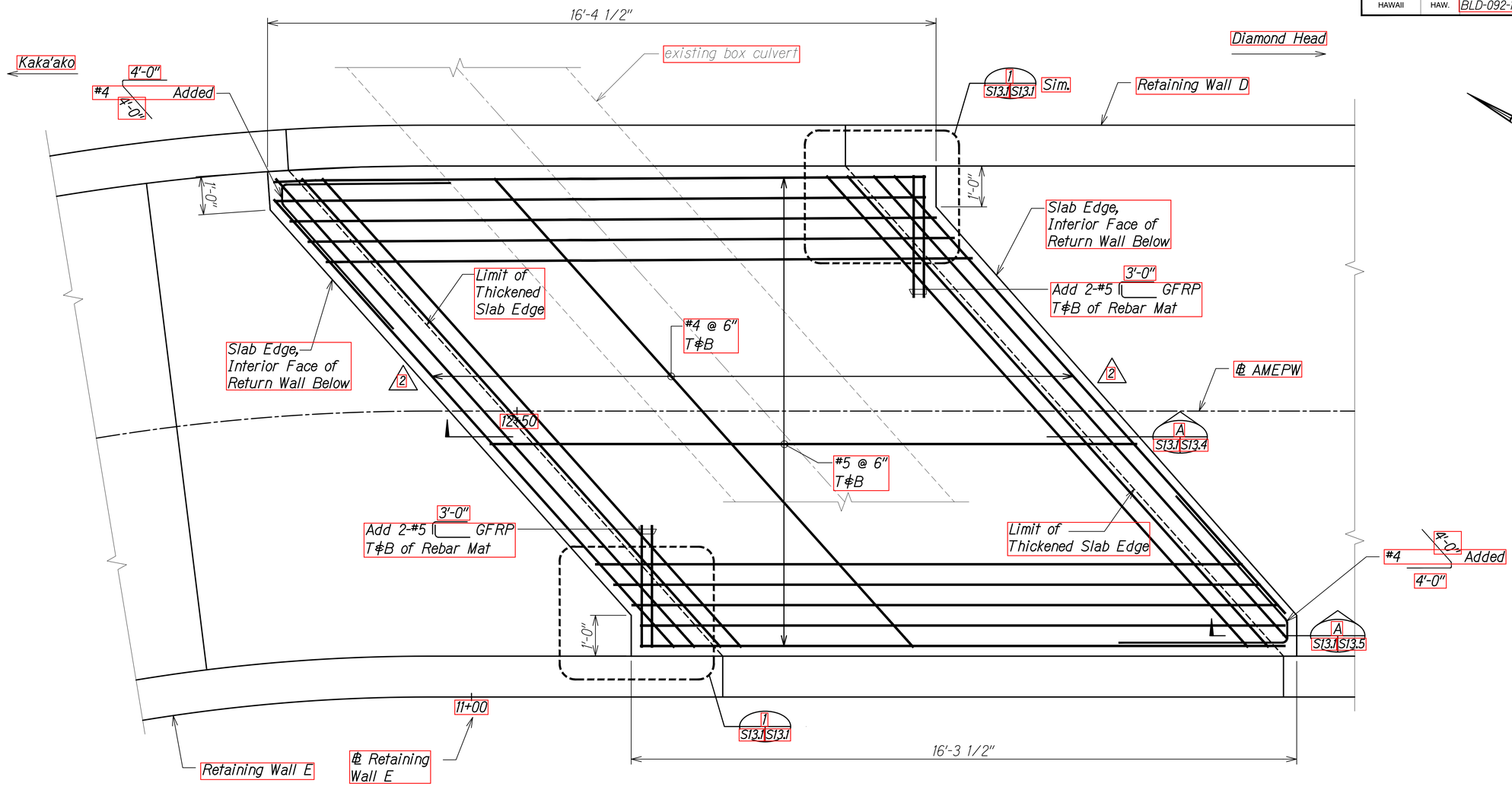
ORIGINAL PLAN
NOTE BOOK
No.

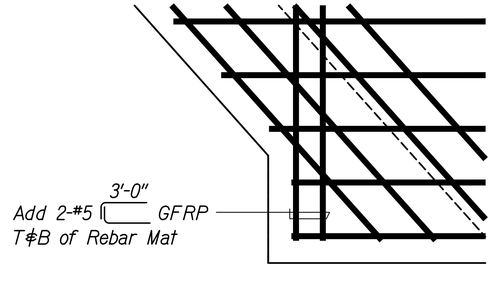
SHEET No. S12.10 OF 10 SHEETS

ADD. 208

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\AMP-S1208 RAMP SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:29 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 209	295





SLAB CORNER DETAIL 1 S13.1 S13.1
Scale: 1 1/2" = 1'-0"

WALKWAY SLAB OVER CULVERT REINFORCING PLAN A S13.1 S13.1
Scale: 3/4" = 1'-0"

DATE	REVISION
2 9/10/21	Revised Callout Leader

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALKWAY SLAB OVER CULVERT REINFORCING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

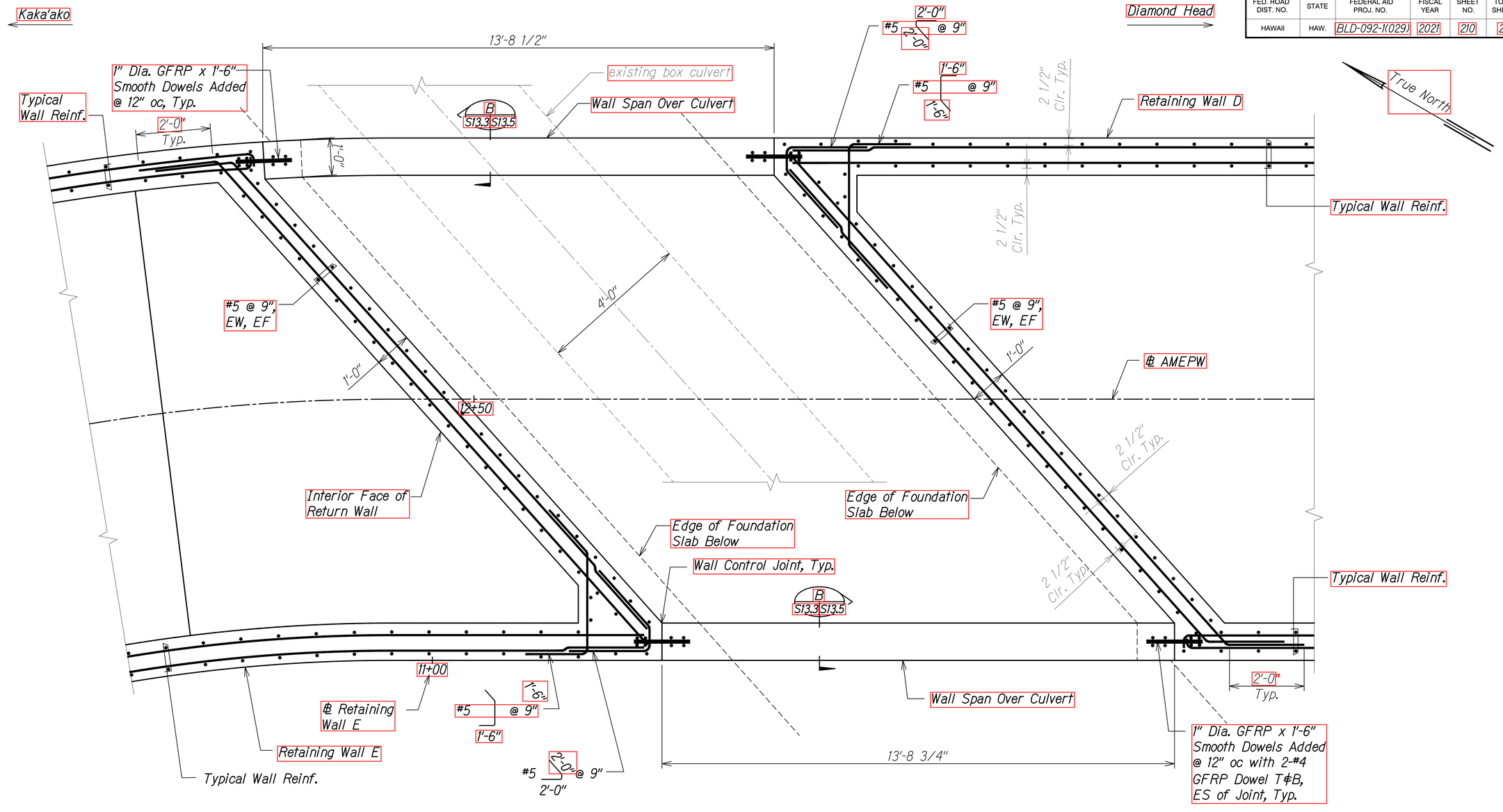
SHEET No. S13.1 OF 5 SHEETS

ADD. 209

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY\01 CAD\09-08-21 ADD2\AMP-S1301 RAMP MAKAI DECK SLAB CULV ADD2.DWG PLOT TIME: 09-08-21, 6:57 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	210	295



RETURN WALL REINFORCING PLAN

A
S13.2 S13.2

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

DATE	REVISED

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ENGINEERING\CD PROJECTS\OD-012-ALA MOANA PED BR-HA\01 CAD\OB-03-21B BID FINAL NEW KBASE\AMP-S1301 RAMP MAKAI DECK SLAB CULVERT.DWG PLOT TIME: 08-04-21, 10:06 AM

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE — 4-30-22 EXPIRATION DATE OF THE LICENSE

RETURN WALL REINFORCING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

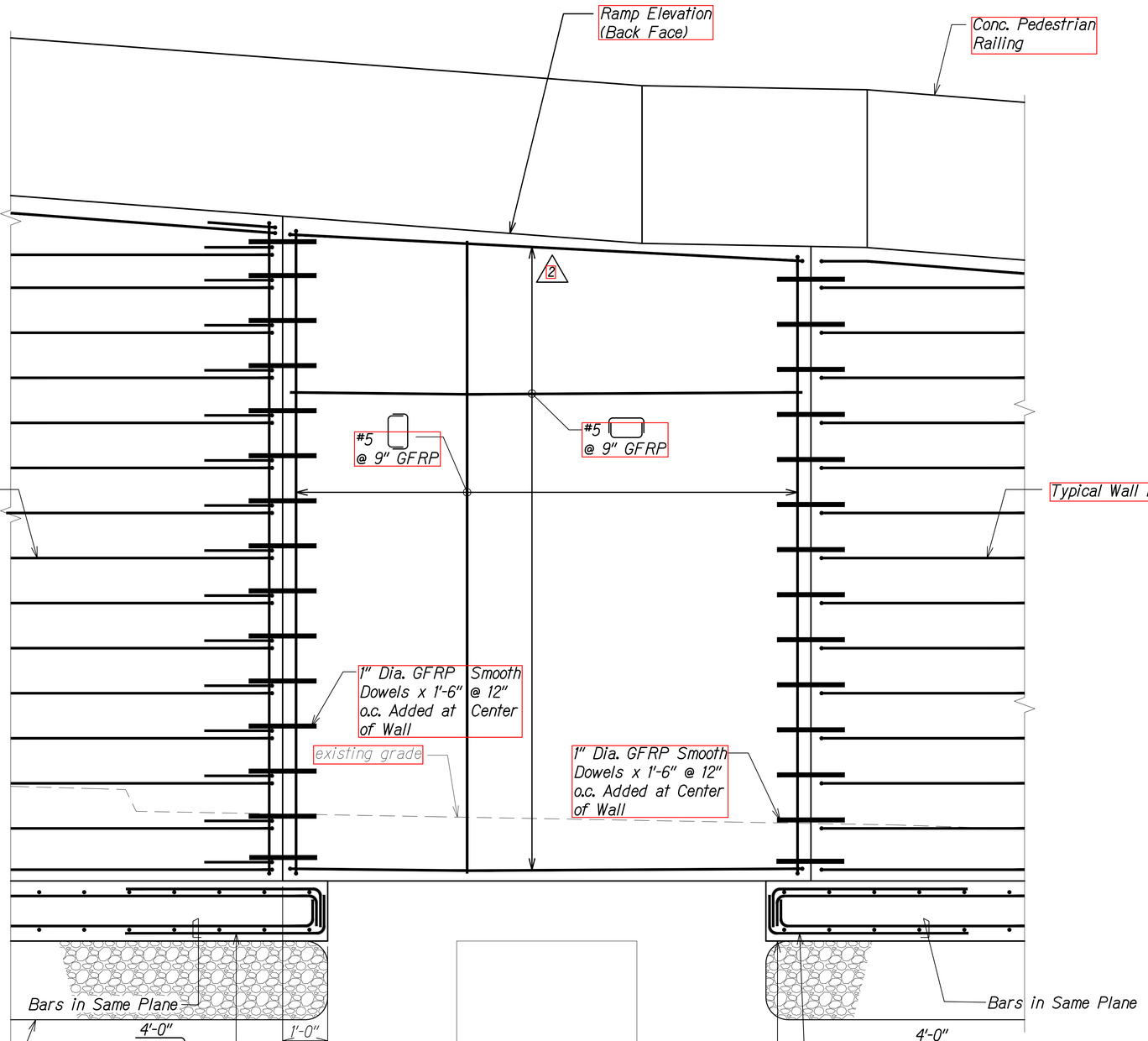
Scale: As Noted Date: July 2021

SHEET No. S13.2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 211	295

Kaka'ako

Diamond Head



WALL SPAN OVER CULVERT ELEVATION

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

A S13.3 | S13.3

DATE	REVISION
9/10/21	Revised Callout Leader

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL SPAN OVER CULVERT ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

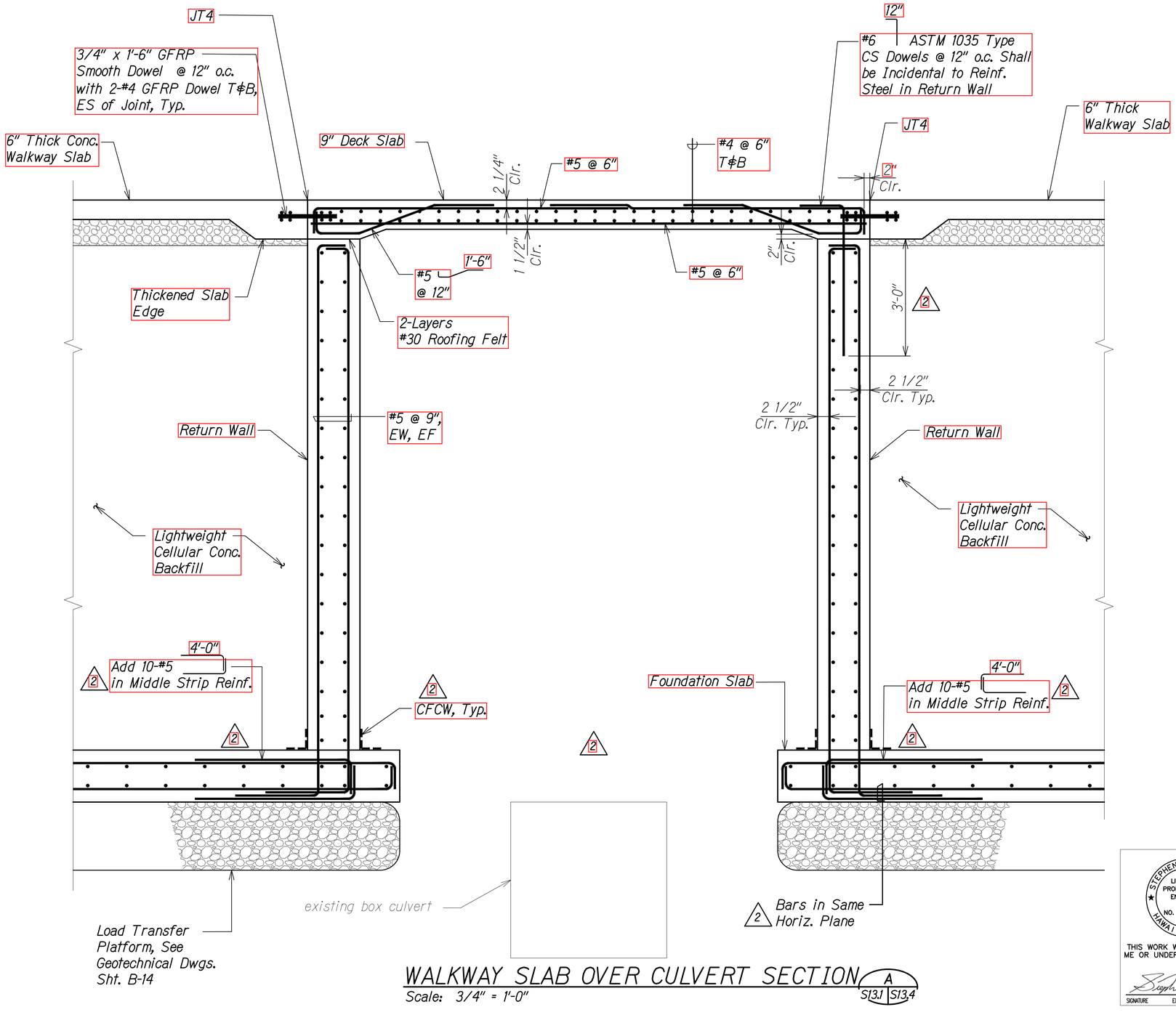
SHEET No. S13.3 OF 5 SHEETS

ADD. 211

DATE	ISSUED
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

DRAWING NAME: Z:\JOB ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S1301 RAMP MAKAI DECK SLAB CULV ADD2.DWG PLOT TIME: 09-08-21, 6:56 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 212	295



WALKWAY SLAB OVER CULVERT SECTION

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

A S13.1 | S13.4

DATE	REVISION
9/10/21	2 Added Reinf. and Revised Callout; Added CFW; Deleted Line

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALKWAY SLAB OVER CULVERT SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S13.4 OF 5 SHEETS

ADD. 212

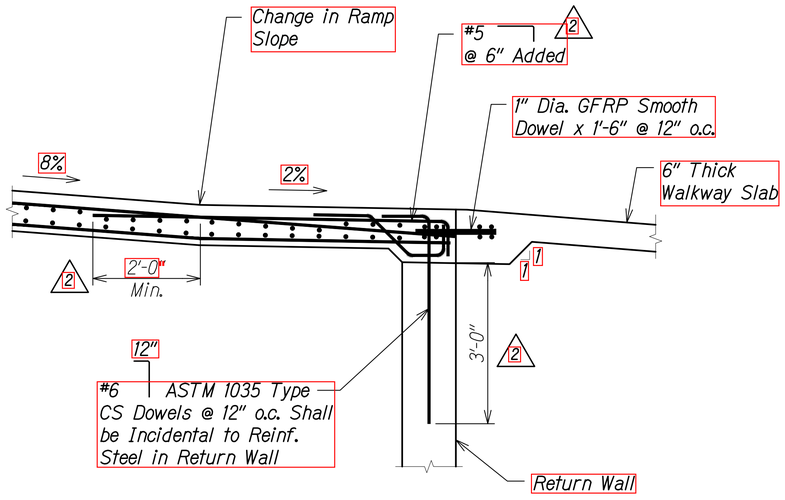
ORIGINAL PLAN | NOTE BOOK No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

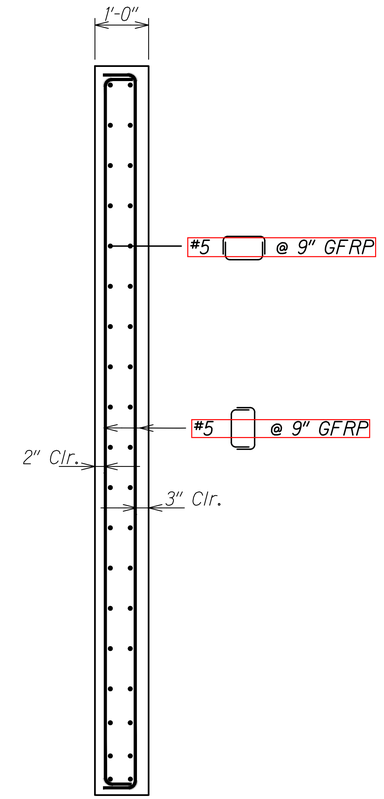
DATE

DRAWING NAME: ZA:\OD ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADD2\AMP-S1301 RAMP MAKAI DECK SLAB CULV ADD2.DWG PLOT TIME: 09-09-21, 10:20 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 213	295



SECTION
Scale: 3/4" = 1'-0"
A S13.1 S13.5



WALL SPAN OVER CULVERT SECTION
Scale: 3/4" = 1'-0"
B S13.3 S13.5

2	9/10/21	Revised Callout and Added Dimensions
	DATE	REVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALKWAY SLAB OVER CULVERT SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

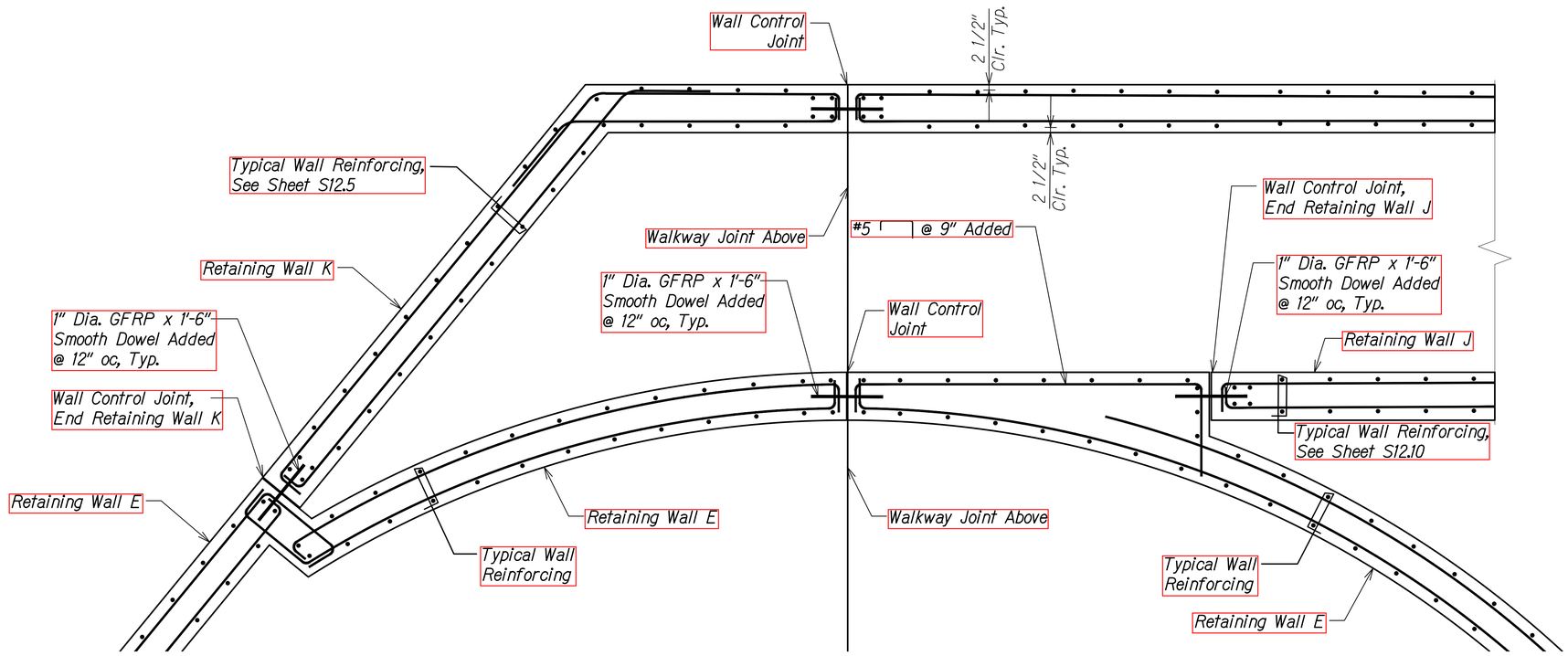
SHEET No. S13.5 OF 5 SHEETS

ADD. 213

ORIGINAL PLAN
NOTE BOOK
No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGOING\23-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\AMP-S1301 RAMP MAKAI DECK SLAB CULV ADD2.DWG PLOT TIME: 09-09-21, 10:20 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	214	295



RETAINING WALL REINFORCING PLAN AT STAIR "D" BELOW WALKWAY

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

A S14.1 S14.1

DRAWING NAME: 2A\OD ONGONGO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1401 STAIR SECTS.DWG PLOT TIME: 08-04-21, 10:07 AM)

ORIGINAL PLAN	DATE
NOTE BOOK	SURVEY PLOTTED BY
No.	DRAWN BY
	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

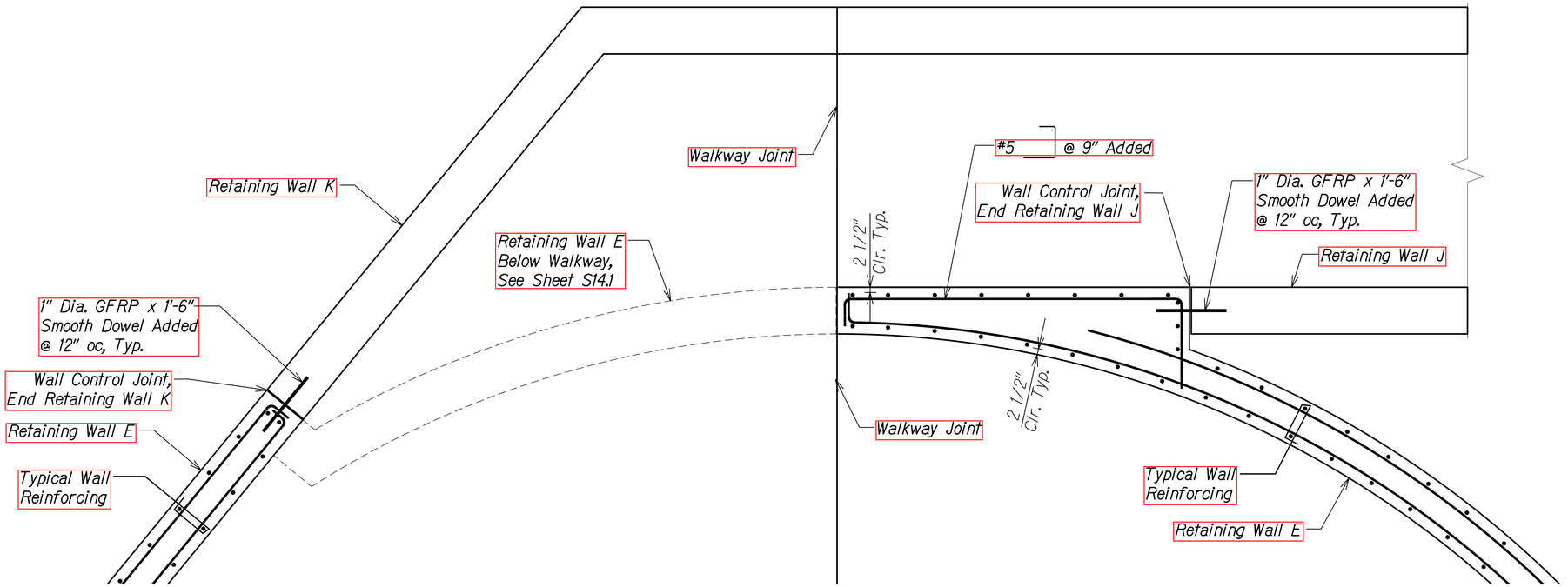
WALL REINFORCING PLAN AT STAIR D RAMP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.1 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	215	295



RETAINING WALL REINFORCING PLAN AT STAIR "D" ABOVE WALKWAY

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

A S14.2 S14.2

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1401 STAIR SECTS.DWG PLOT TIME: 08-04-21, 10:08 AM)

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

DATE

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

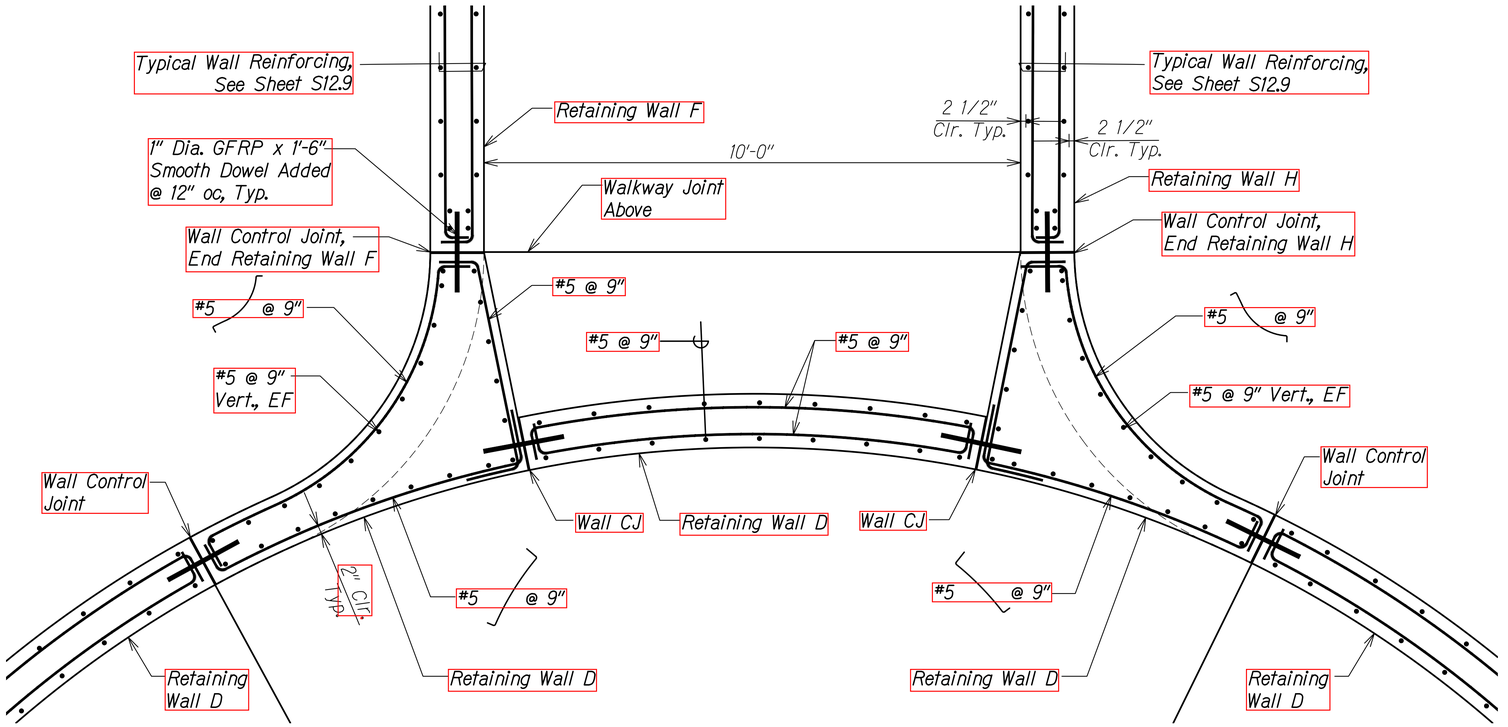
WALL REINFORCING PLAN AT STAIR D RAMP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.2 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	216	295



WALL REINFORCING PLAN AT STAIR B RAMP BELOW WALKWAY

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

A S14.3 | S14.3

ORIGINAL PLAN	DATE
NOTE BOOK	
No.	

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DRAWING NAME: Z:\JOB ONGOING\JOB CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1401 STAIR SECTS.DWG PLOT TIME: 08-03-21, 7:48 PM

STEPHEN T. PETERS
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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

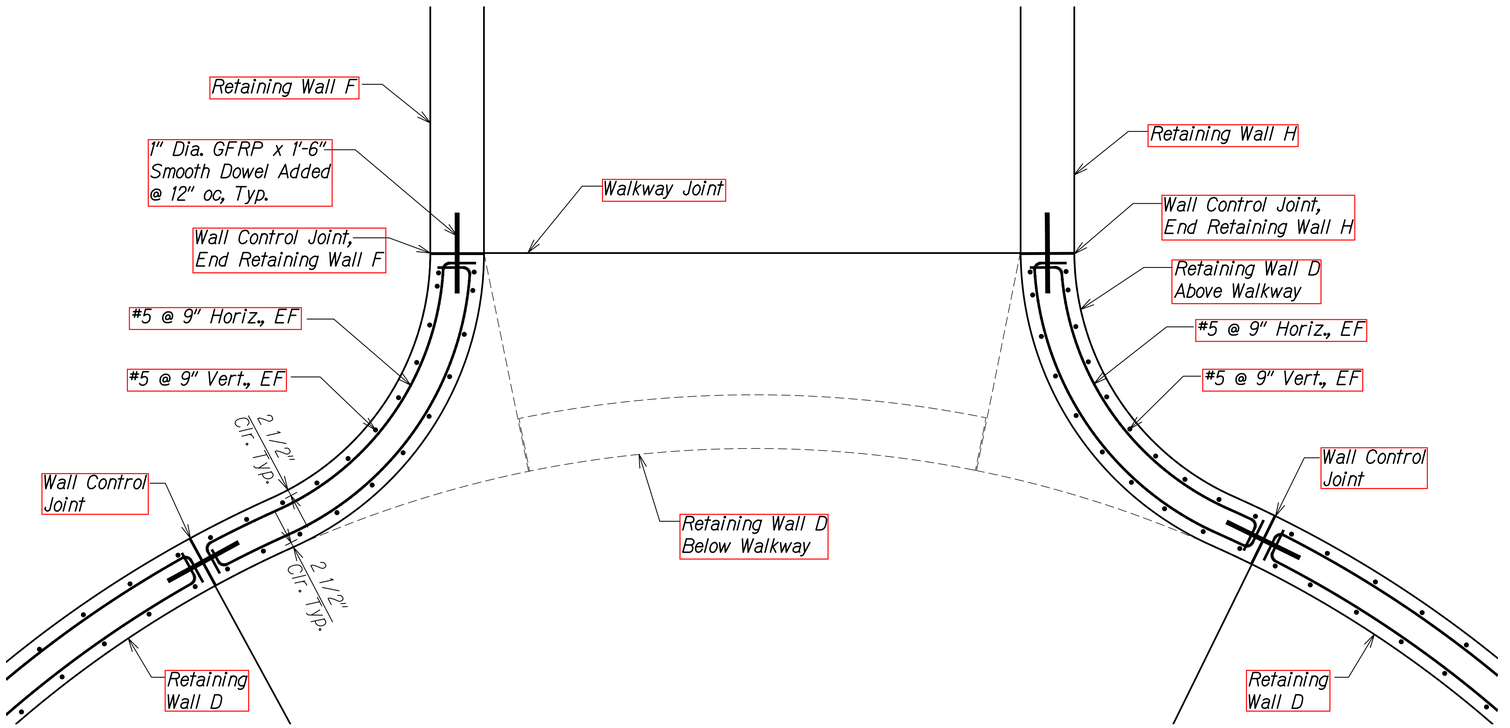
WALL REINFORCING PLAN AT STAIR B RAMP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.3 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	217	295



WALL REINFORCING PLAN AT STAIR B RAMP ABOVE WALKWAY

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

A S14.4 S14.4

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\JOB ONGOING\JOB CB PROJECTS\20-012-ALA MOANA PED BR-HI\A\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1401 STAIR SECTS.DWG PLOT TIME: 08-04-21, 10:08 AM)

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

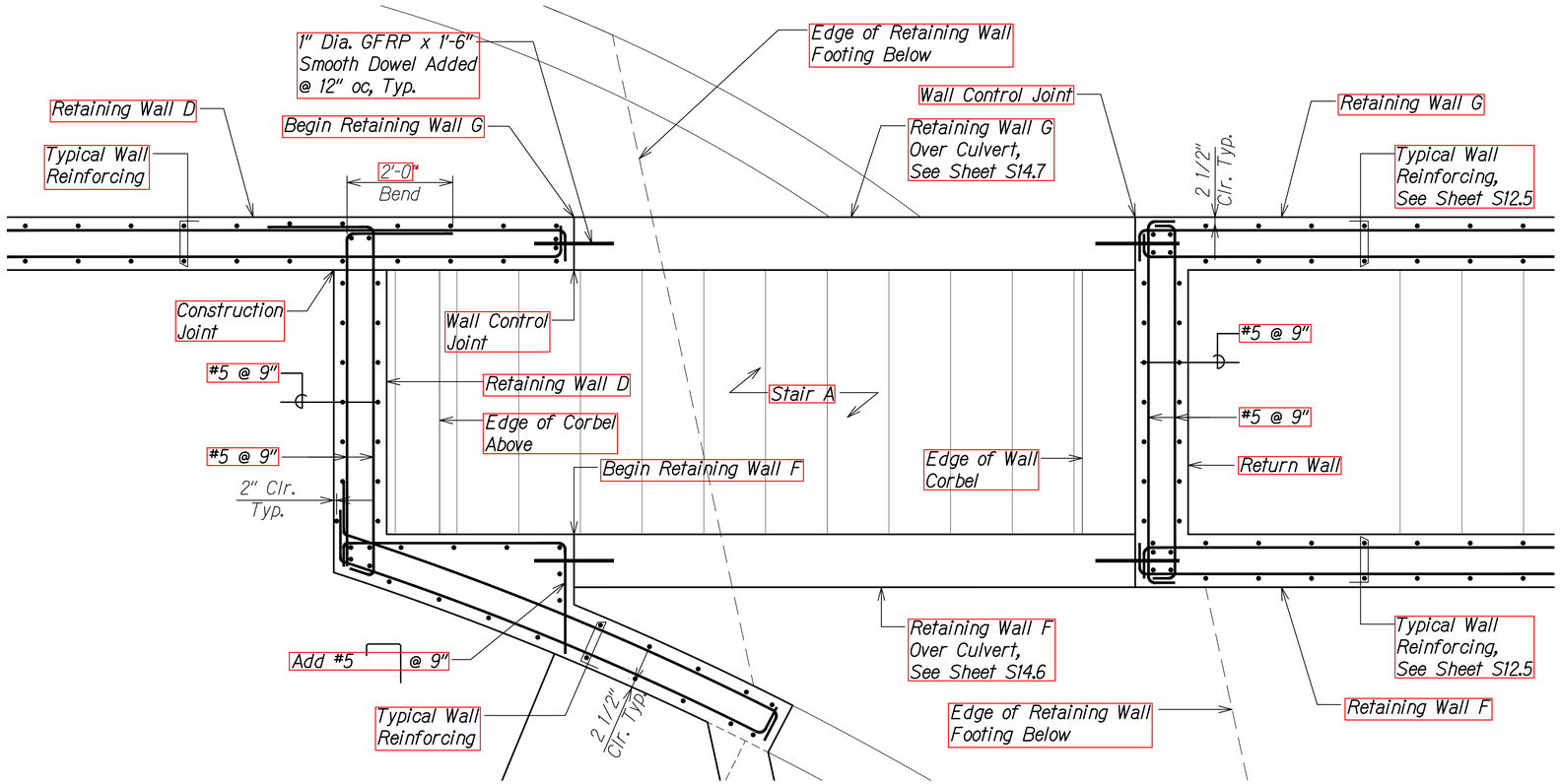
WALL REINFORCING PLAN AT STAIR B RAMP

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.4 OF 13 SHEETS

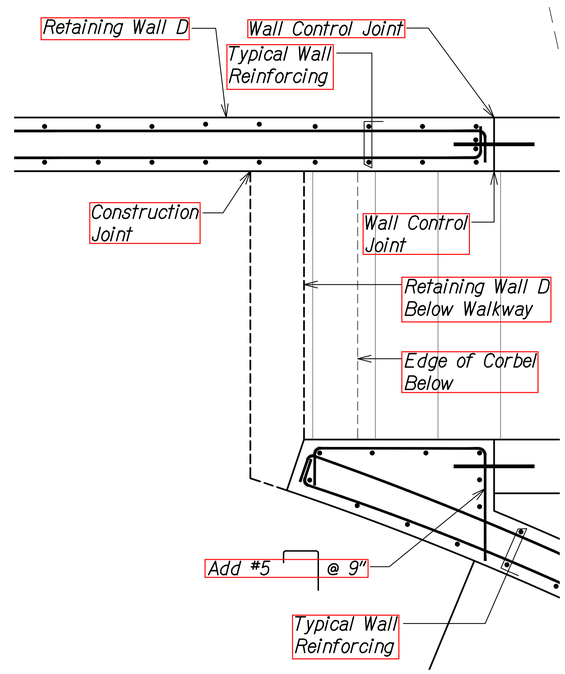
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	218	295



RETAINING WALL REINFORCING PLAN AT STAIR "A" BELOW WALKWAY

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

A S14.5 S14.5



REINFORCING PLAN ABOVE WALKWAY

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

B S14.5 S14.5

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S ★ HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL REINFORCING PLAN AT STAIR A

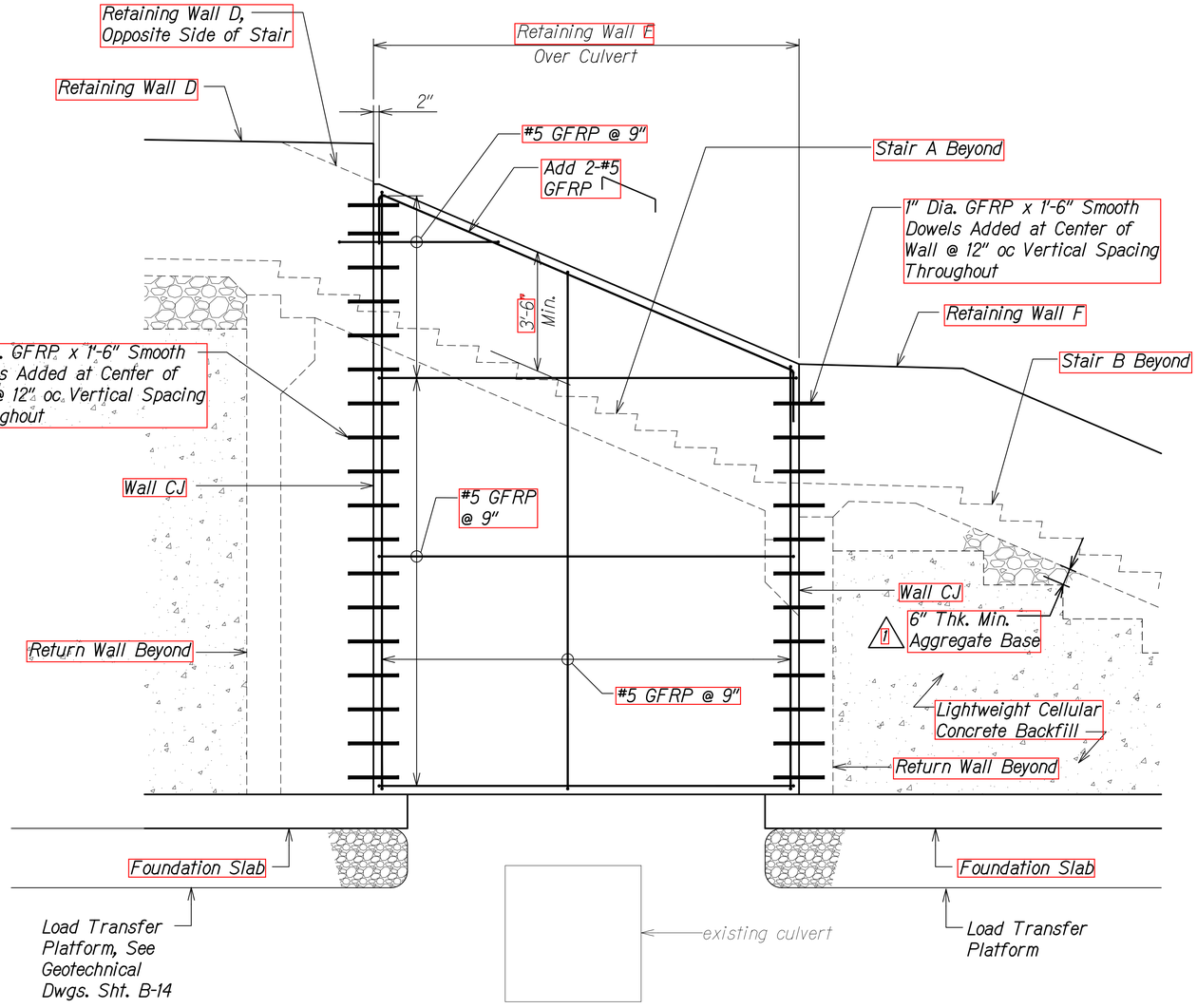
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.5 OF 13 SHEETS

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1401 STAIR SECTS.DWG PLOT TIME: 08-04-21, 10:08 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 219	295



RETAINING WALL F - OVER CULVERT ELEVATION

Scale: 1/2" = 1'-0"

A S14.6 | S14.6

1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL F
OVER CULVERT ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

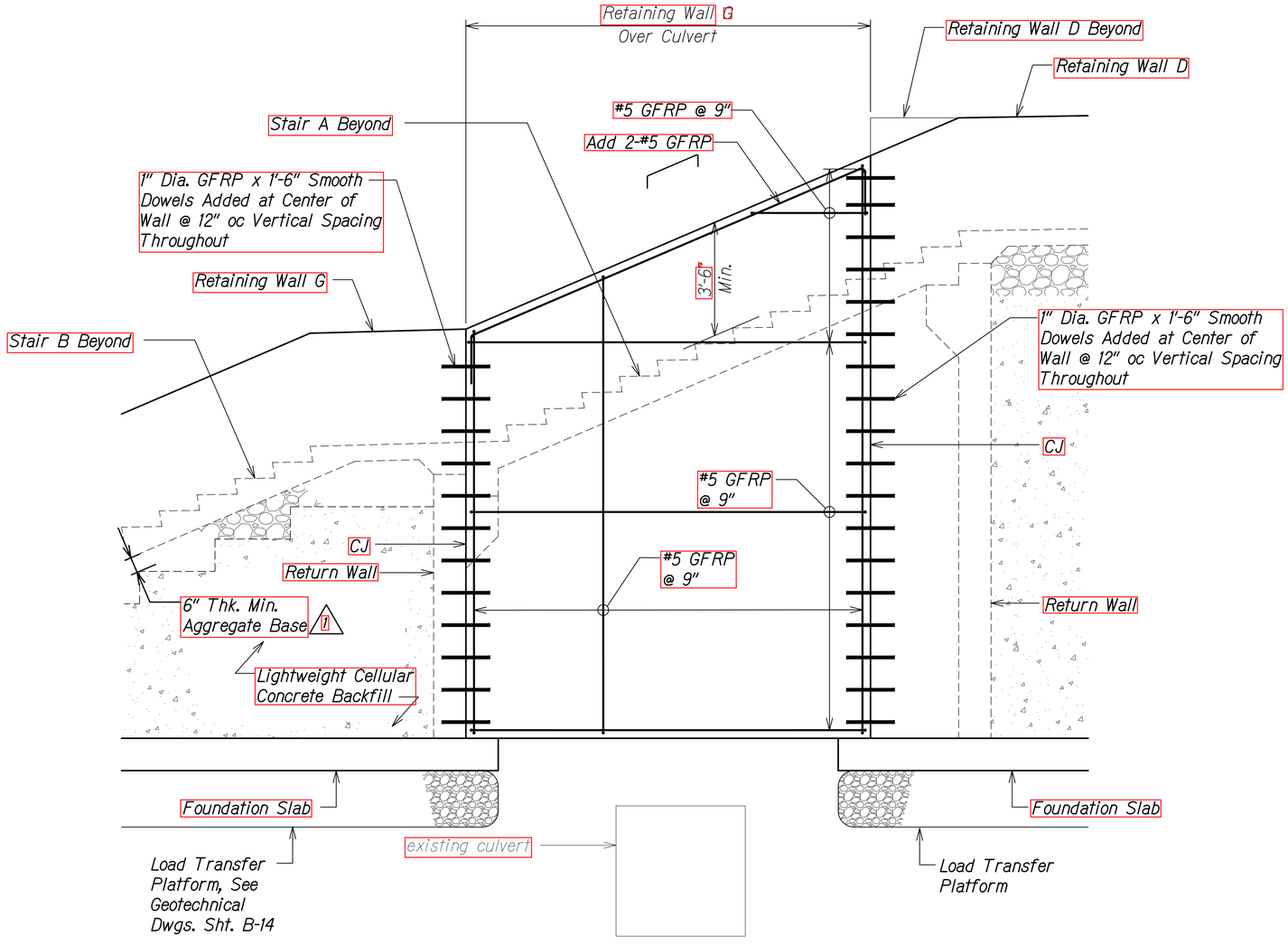
SHEET No. S14.6 OF 13 SHEETS

ADD. 219

ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HHA\01 CAD\08-30-21 ADD\AMP-S1401 STAIR SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:30 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 220	295



RETAINING WALL G - OVER CULVERT ELEVATION

Scale: 1/2" = 1'-0"

A S14.7 | S14.7

1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL G
OVER CULVERT ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SHEET No. S14.7 OF 13 SHEETS

ADD. 220

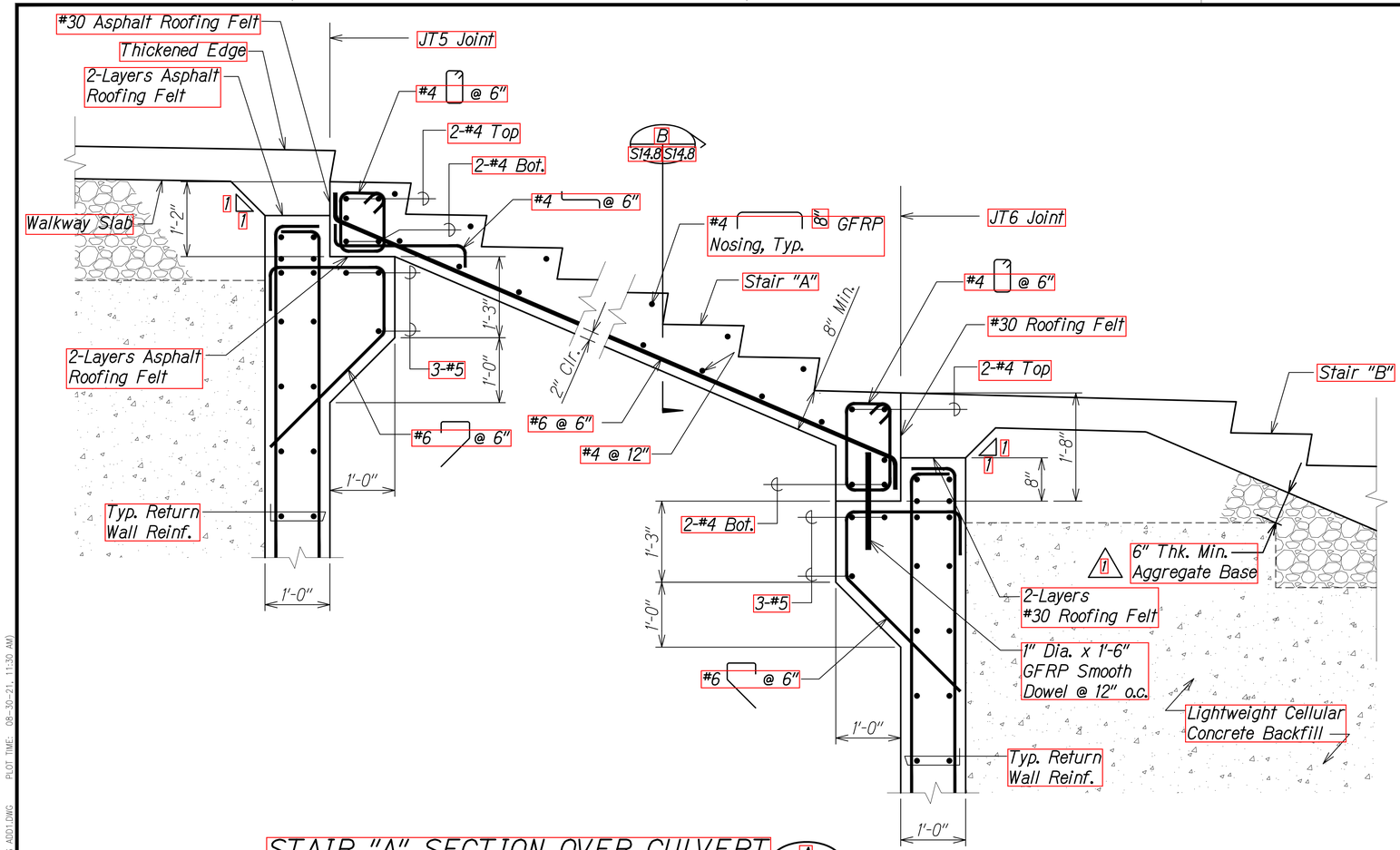
ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD\AMP-S1401 STAIR SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:30 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 221	295

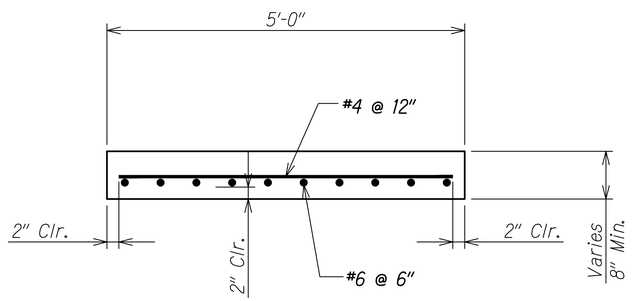


Note: See Civil Dwgs. Sheet R-13 for Stair Tread Detail

STAIR "A" SECTION OVER CULVERT

A S14.8 S14.8

Scale: 1" = 1'-0"



SECTION

B S14.8 S14.8

Scale: 1" = 1'-0"

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "A" SECTIONS AND DETAIL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SHEET No. S14.8 OF 13 SHEETS

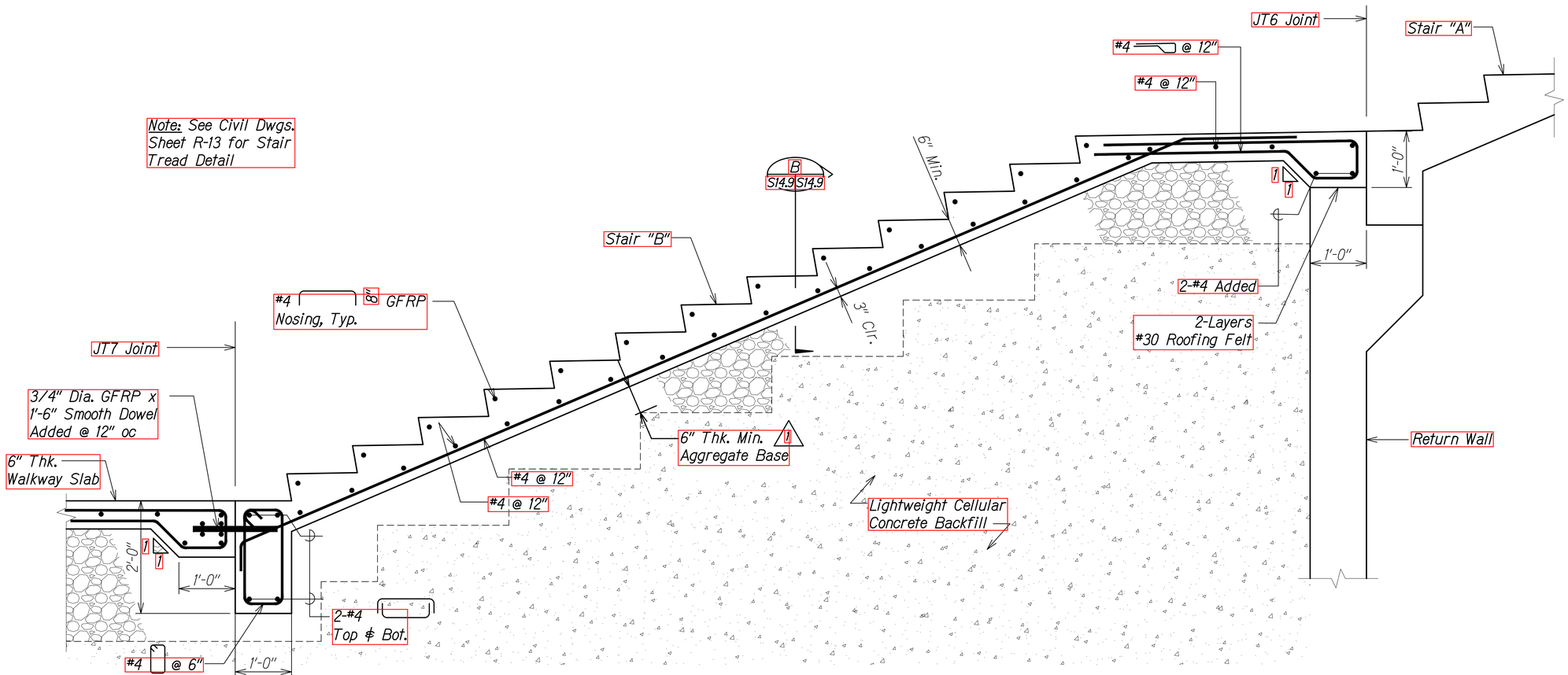
ADD. 221

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | NOTE BOOK | TRACED BY | DESIGNED BY | No. | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ENGDNG\23-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD1\MP-S1401 STAIR SECTS ADD1.DWG PLOT TIME: 08-30-21 11:30 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 222	295

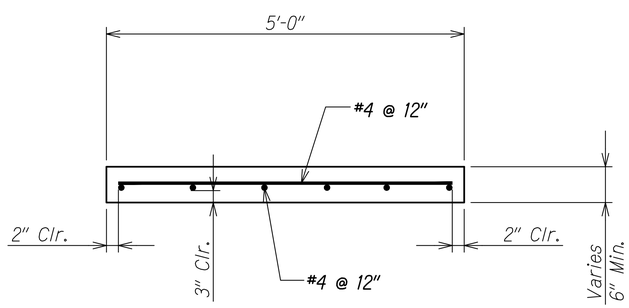
Note: See Civil Dwgs. Sheet R-13 for Stair Tread Detail



STAIR "B" SECTION

Scale: 1" = 1'-0"

A S14.9 S14.9



SECTION

Scale: 1" = 1'-0"

B S14.9 S14.9

1	8/30/21	Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "B" SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SHEET No. S14.9 OF 13 SHEETS

ADD. 222

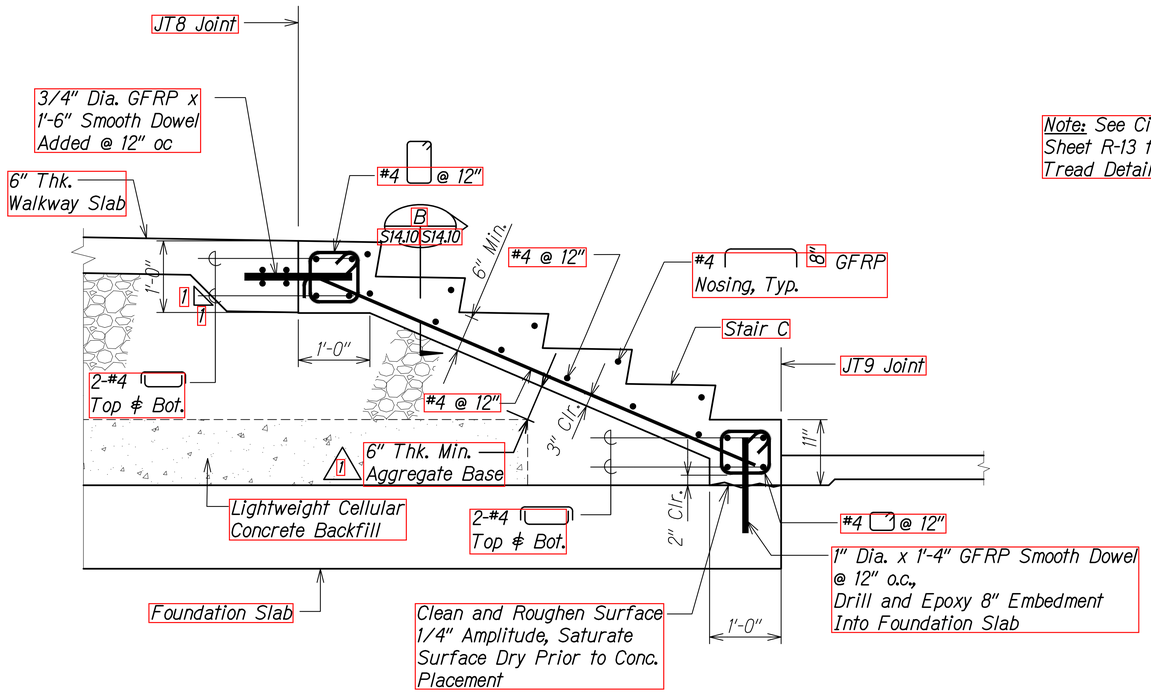
DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD1\AMP-S1401 STAIR SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:31 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 223	295

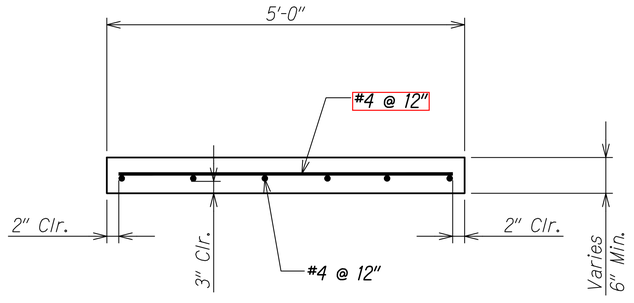


Note: See Civil Dwgs. Sheet R-13 for Stair Tread Detail

STAIR "C" SECTION

Scale: 1" = 1'-0"

A S14.10 S14.10



SECTION

Scale: 1" = 1'-0"

B S14.10 S14.10

DATE	REVISION
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "C" SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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SHEET No. S14.10 OF 13 SHEETS

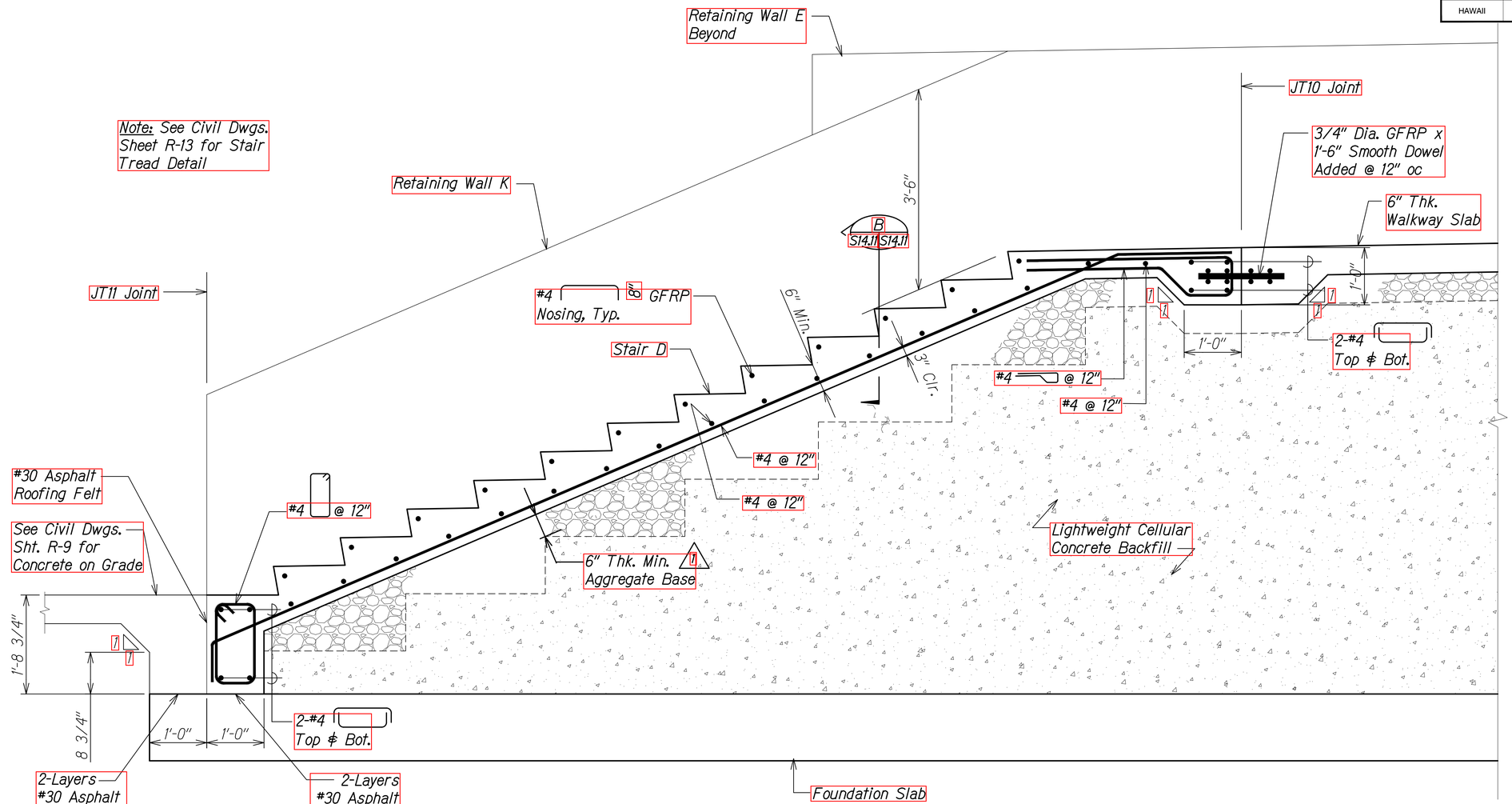
ADD. 223

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

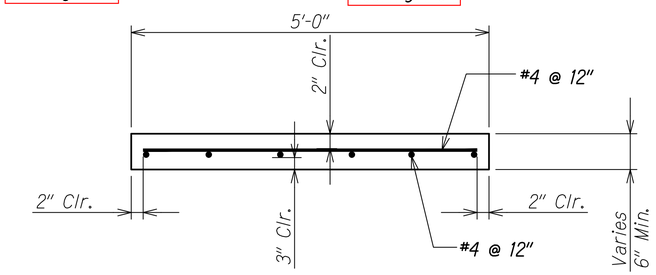
DRAWING NAME: Z:\OD ENGDNG\20-012-ALA MOANA PED BR-HAW\01 CAD\08-30-21 ADD\YAMP-S1401 STAIR SECTS ADD1.DWG PLOT TIME: 08-30-21, 11:31 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 224	295



STAIR "D" SECTION A S14.11 S14.11

Scale: 1" = 1'-0"



SECTION B S14.11 S14.11

Scale: 1" = 1'-0"

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "D" SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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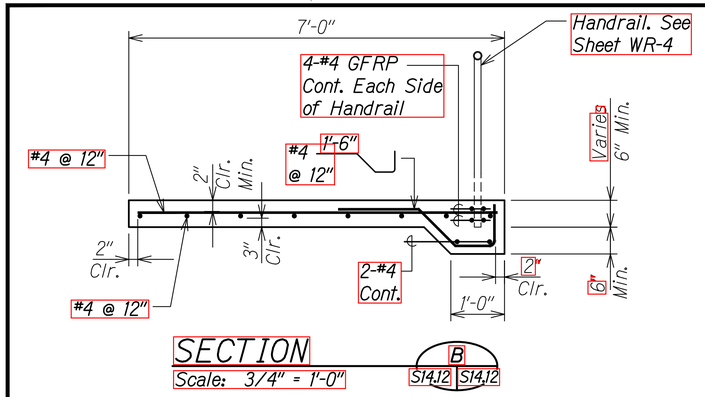
SHEET No. S14.11 OF 13 SHEETS

ADD. 224

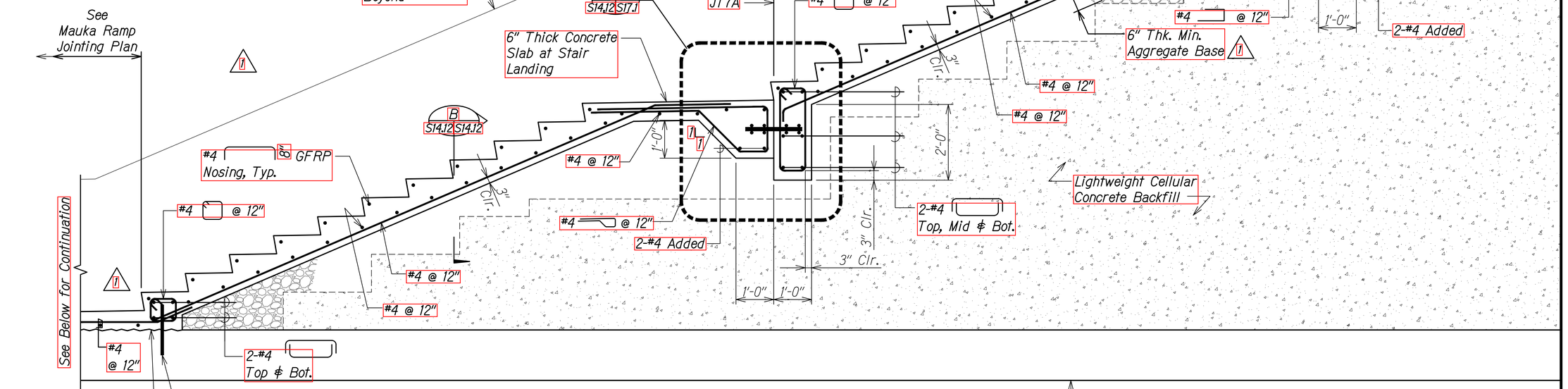
ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

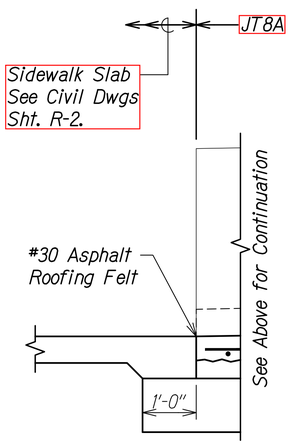
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 225	295



SECTION
Scale: 3/4" = 1'-0"
B S14.12 S14.12





STAIR "E" SECTION
Scale: 3/4" = 1'-0"
A S1.6 S14.12

2	9/10/21	Deleted Railing, Reinf. & Callouts
1	8/30/21	Revised Note; Conc. Curb and Note Deleted
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "E" SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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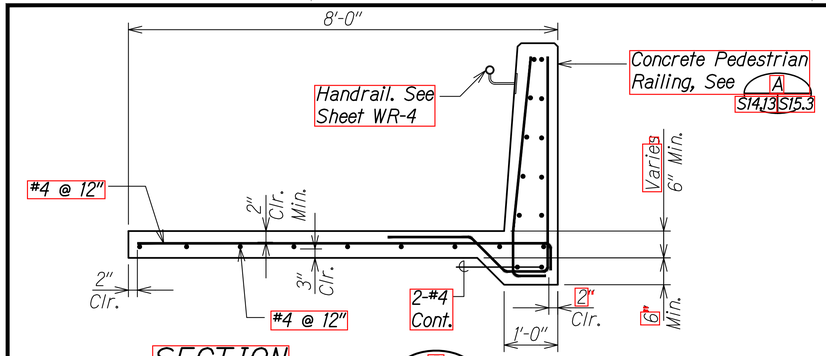
SHEET No. S14.12 OF 13 SHEETS

ADD. 225

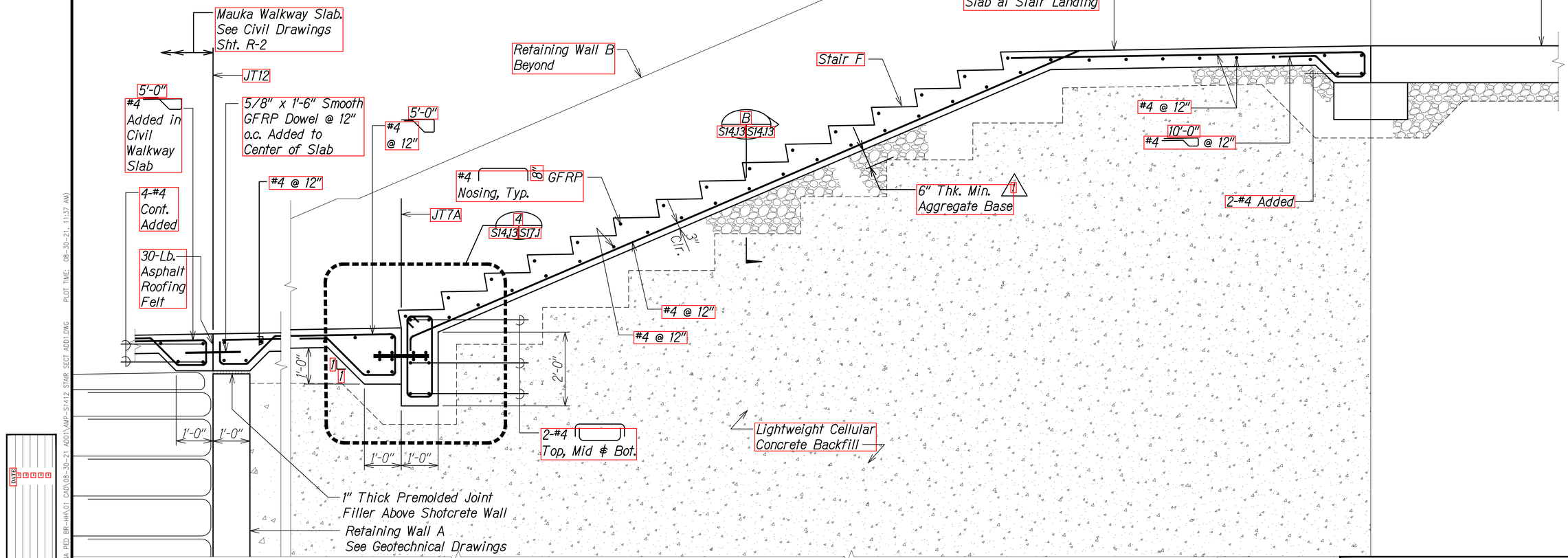
ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGN BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY01 CAD\09-09-21 ADD\XMP-S1412 STAIR SECT ADD1-2.DWG PLOT TIME: 09-09-21 3:49 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 226	295



SECTION
Scale: 3/4" = 1'-0"
B S14.13 S14.13



STAIR "F" SECTION
Scale: 3/4" = 1'-0"
A S1.6 S14.13

DATE	REVISION
1 8/30/21	Revised Note

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWA\01 CAD\08-30-21 ADD\MP-S1412 STAIR SECT ADD1.DWG PLOT TIME: 08-30-21, 11:37 AM

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LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIR "F" SECTION

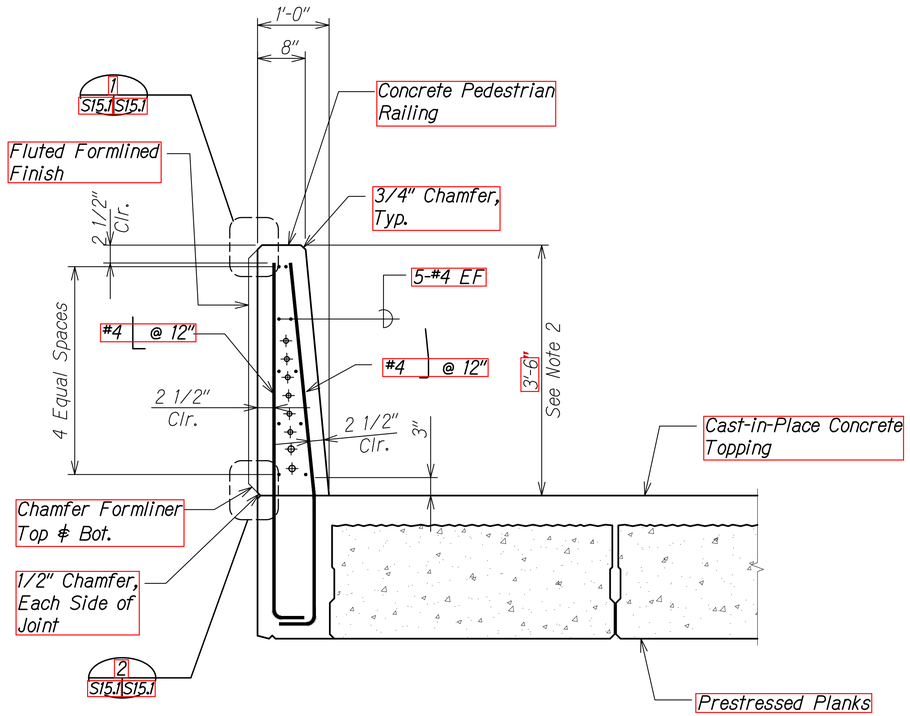
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S14.13 OF 13 SHEETS

ADD. 226

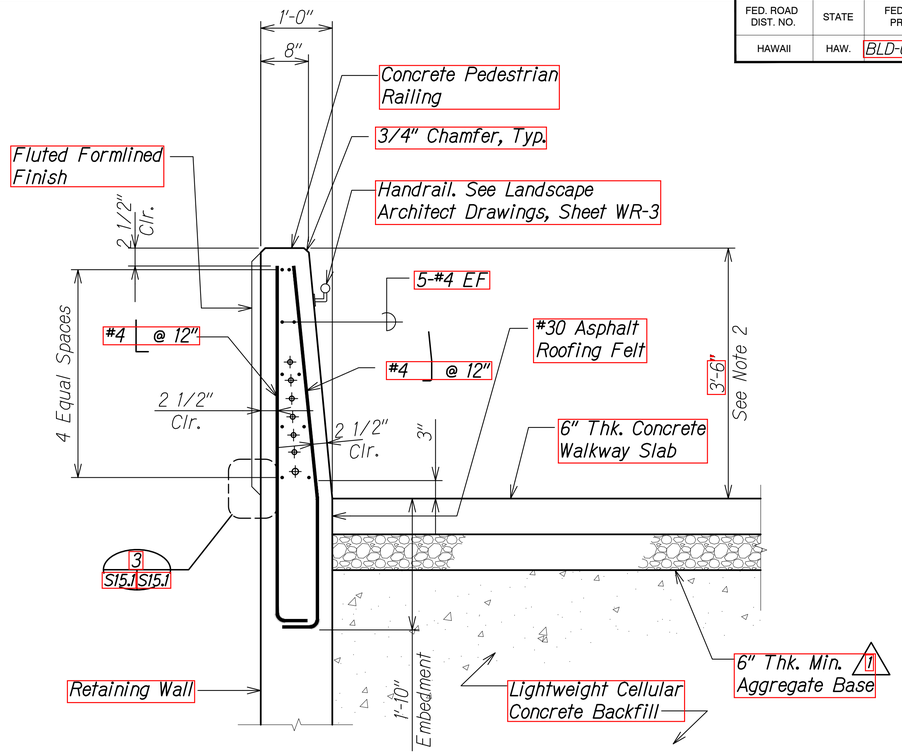
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 227	295



CONCRETE PEDESTRIAN BRIDGE RAILING SECTION WITH FLUTED FORMLINED FINISH

Scale: 1" = 1'-0"

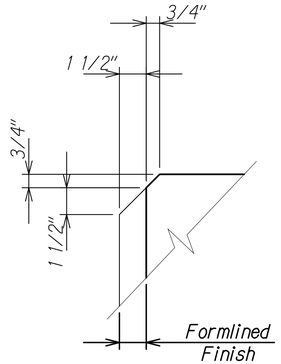
A S1.2 S15.1 S2.3



CONCRETE PEDESTRIAN RAMP SECTION WITH FLUTED FORMLINED FINISH

Scale: 1" = 1'-0"

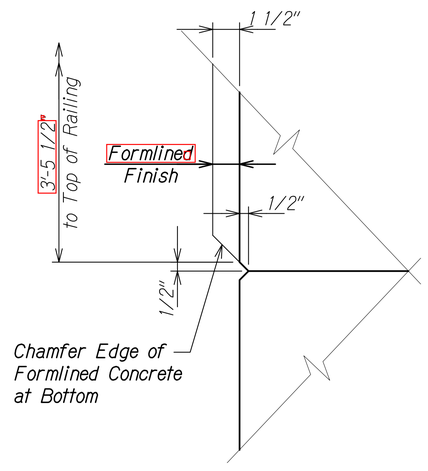
B S15.1 S15.1



DETAIL 1

Scale: 3" = 1'-0"

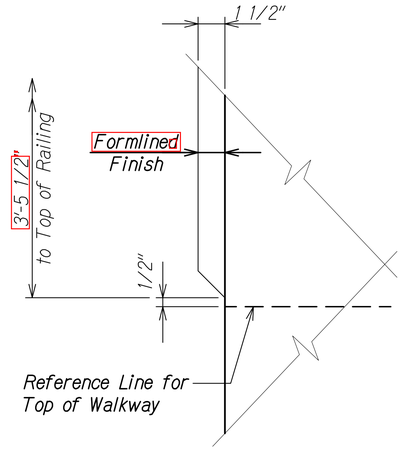
S15.1 S15.1



DETAIL 2

Scale: 3" = 1'-0"

S15.1 S15.1



DETAIL 3

Scale: 3" = 1'-0"

S15.1 S15.1

Notes:

1. Formlined finish of railing shall be incidental to Pay Item 507.1000 Concrete Pedestrian Railing.
2. Pay Limits for Item 507.1000 shall extend 3'-6" above top of bridge deck / walkway slab.
3. Electrical conduits shown for schematic purposes only and vary along project length. See Electrical drawings for size and quantity. Maintain 1 1/2" minimum clearance between adjacent conduits and between conduits and reinforcing steel.

DATE	REVISION
1 8/30/21	Revised Note

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAILING SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

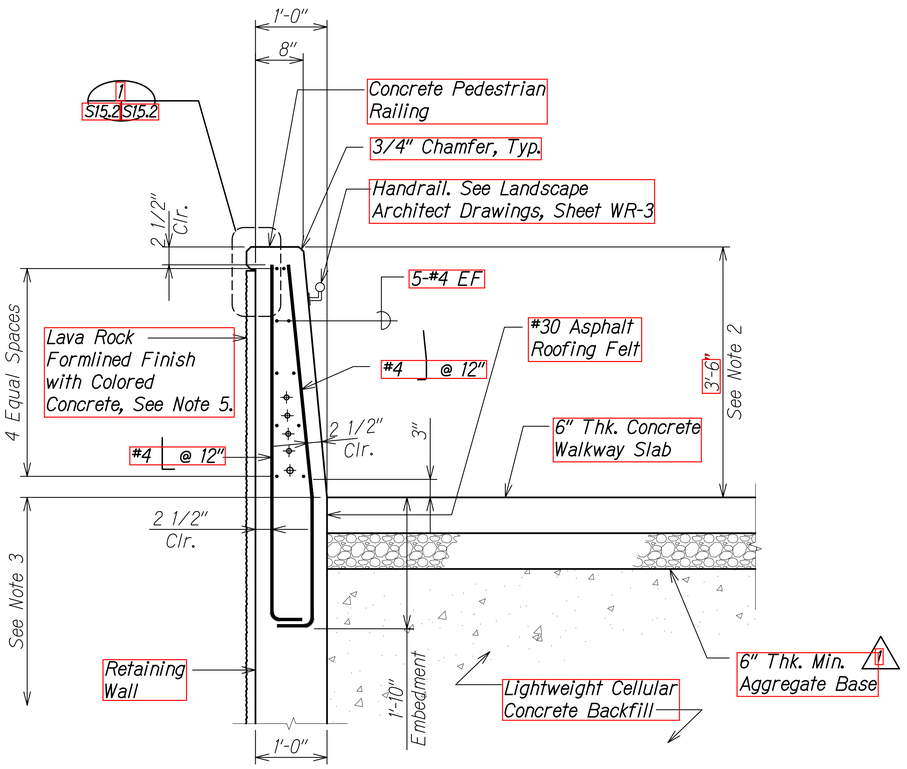
SHEET No. S15.1 OF 3 SHEETS

ADD. 227

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\29-012-ALA MOANA PED BR-HA\01 CAD\08-30-21 ADD_WP-S1501 RAILS ADD1.DWG PLOT TIME: 08-30-21, 11:38 AM

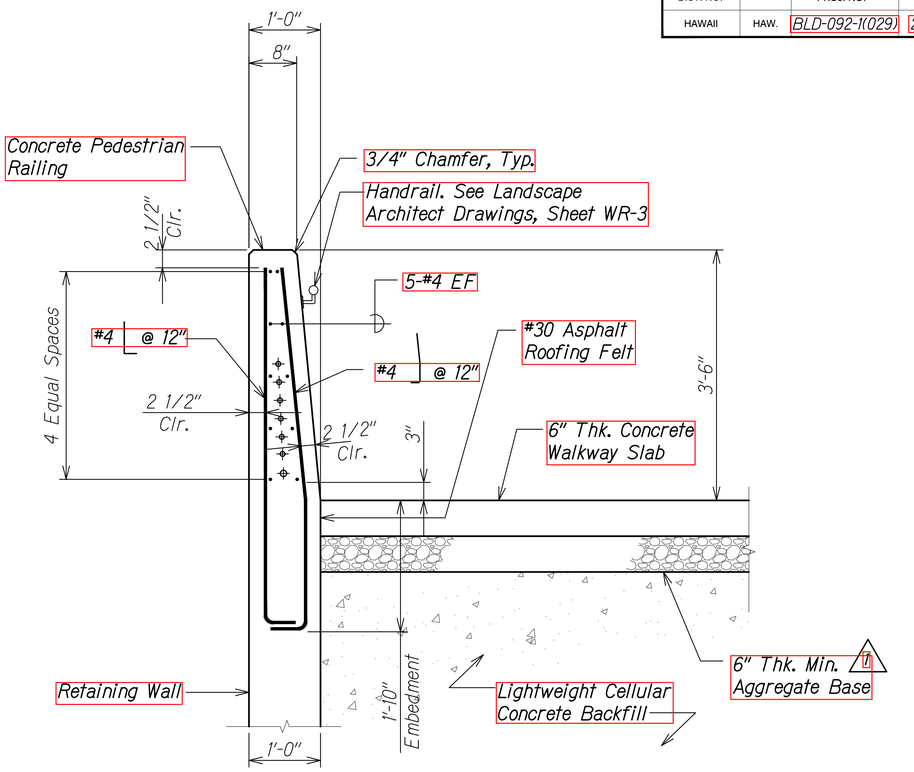
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 228	295



CONCRETE PEDESTRIAN RAMP RAILING SECTION WITH LAVA ROCK FORMLINED FINISH

Scale: 1" = 1'-0"

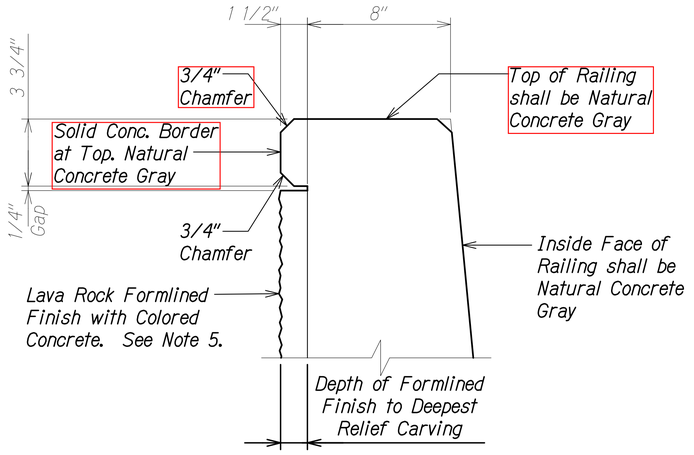
A S15.2 S15.2



TYPICAL CONCRETE PEDESTRIAN RAMP RAILING SECTION

Scale: 1" = 1'-0"

B S15.2 S15.2



DETAIL

Scale: 3" = 1'-0"

1 S15.2 S15.2

Notes:

1. Formlined finish of railing shall be incidental to Pay Item 507.1000 Concrete Pedestrian Railing.
2. Pay Limits for Item 507.1000 shall extend 3'-6" above top of bridge deck / walkway slab.
3. Formlined finish of retaining wall below railing shall be incidental to Pay Item 503.0000 Concrete for Retaining Walls.
4. Electrical conduits shown for schematic purposes only and vary along project length. See Electrical drawings for size and quantity. Maintain 1 1/2" minimum clearance between adjacent conduits and between conduits and reinforcing steel.
5. The outside face of the lava rock formlined finish shall resemble the colors as shown in special provisions Section 601. The top border element, top of rail and inside face of railing shall remain natural concrete gray. Contractor shall submit method for achieving the desired looks to the Engineer for review and approval. This shall be represented in the test panel as described in Special Provisions Section 660.

DATE	REVISION
1 8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAILING SECTIONS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

SHEET No. S15.2 OF 3 SHEETS

ADD. 228

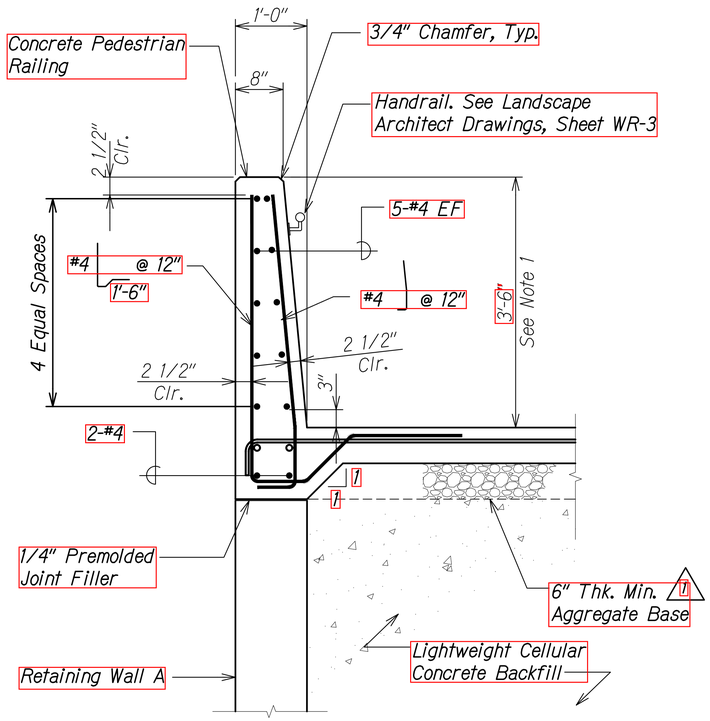
DATE
ISSUED

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\ADD ONCOMING\28-012-ALA MOANA PED BR-HWY01 CAD\08-30-21 ADD\WP-S1501 RAILG ADD1.DWG PLOT TIME: 08-30-21, 11:38 AM

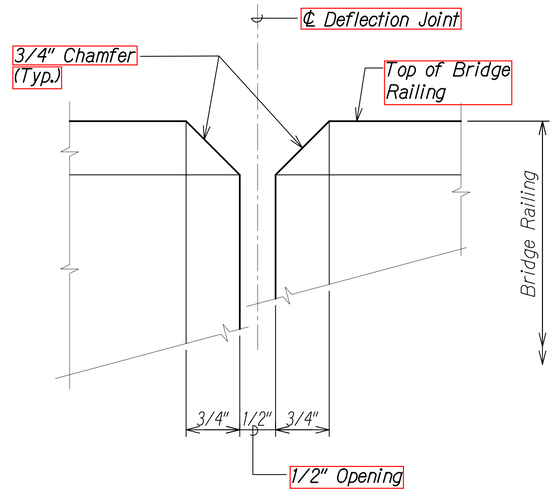
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 229	295



CONCRETE PEDESTRIAN RAMP RAILING SECTION AT STAIR F

Scale: 1" = 1'-0"

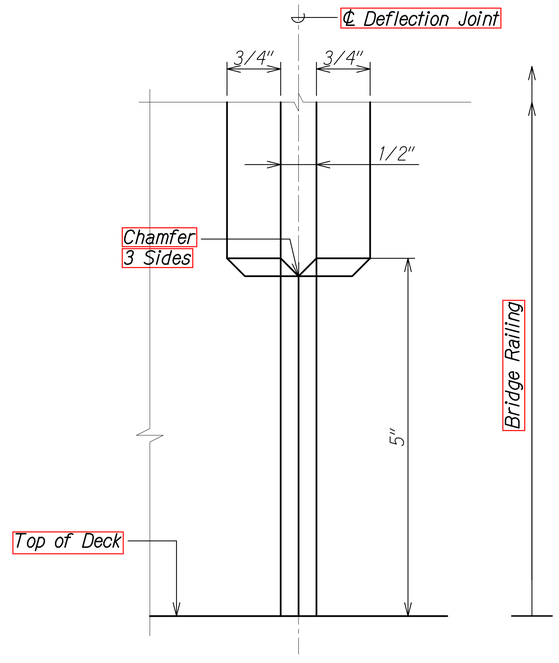
A S15.3 S15.3



DEFLECTION JOINT DETAIL 1

Full Scale

S15.3 S15.3



DEFLECTION JOINT DETAIL 2

Full Scale

S15.3 S15.3

Note:

1. Pay Limits for Item 507.1000 shall extend 3'-6" above top of walkway slab / edge of stair tread.

DATE	REVISION
8/30/21	Revised Note

1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAILING SECTION AND JOINT DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

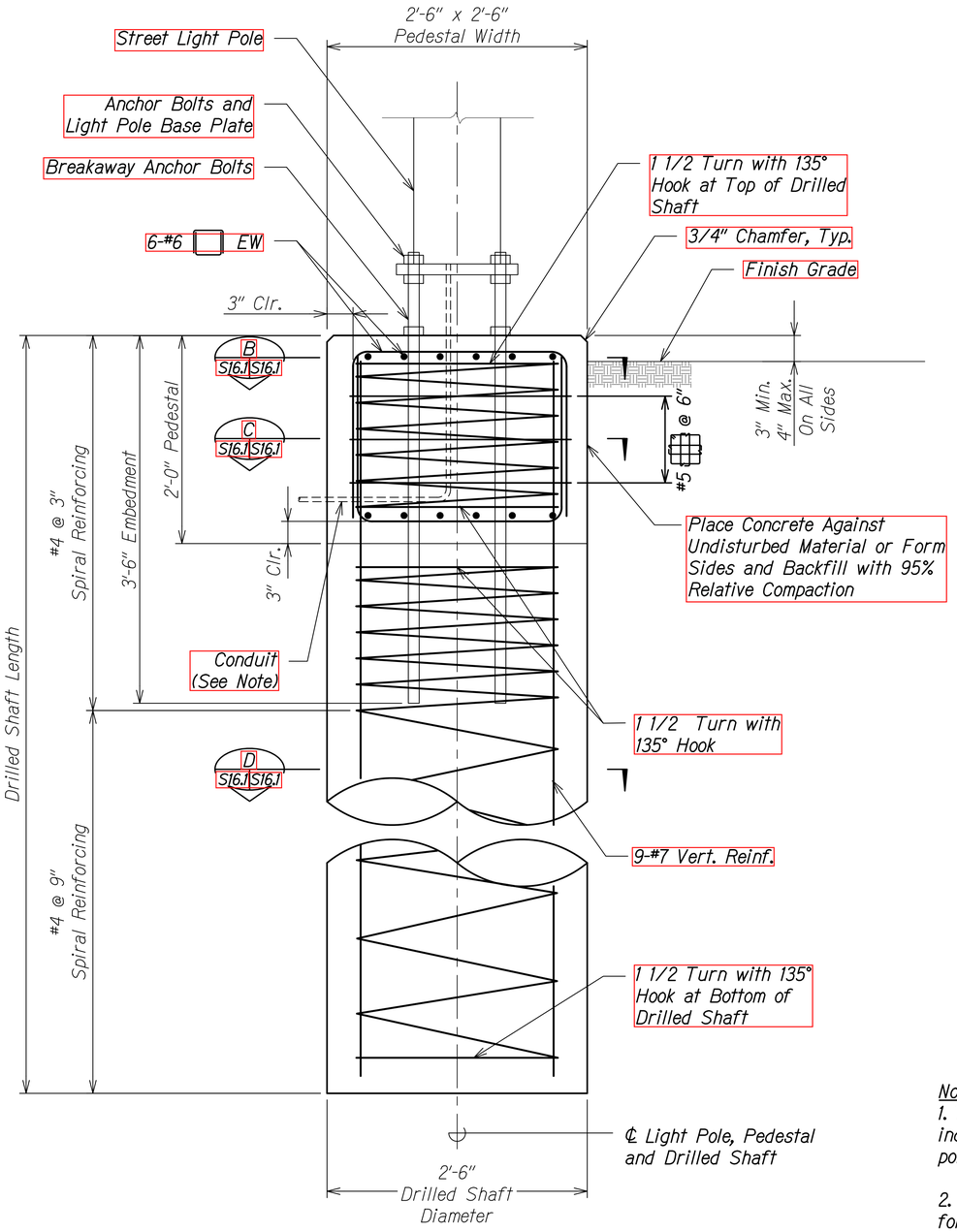
SHEET No. S15.3 OF 3 SHEETS

ADD. 229

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HWY\01 CAD\08-30-21 ADD\AMP-S1501 RAILG ADD1.DWG PLOT TIME: 08-30-21, 11:39 AM

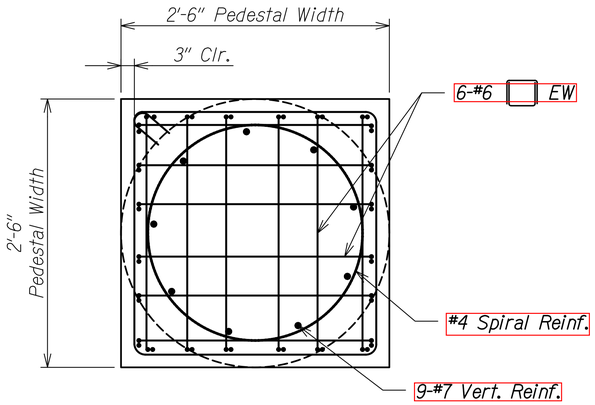
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	230	295



DECORATIVE HIGHWAY STREET LIGHT POLE FOUNDATION ELEVATION

Scale: 1 1/2" = 1'-0"

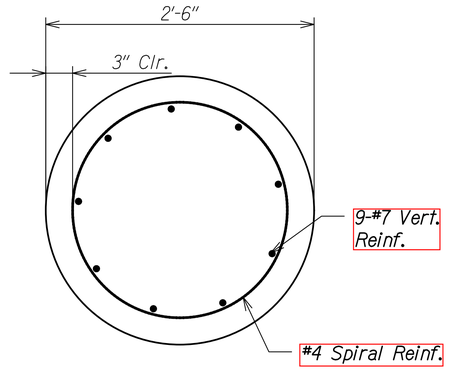
A S16.1 S16.1



SECTION

Scale: 1 1/2" = 1'-0"

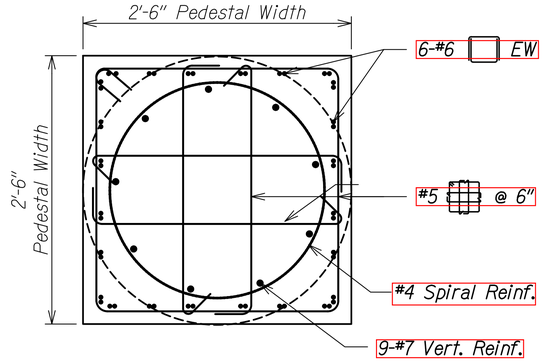
B S16.1 S16.1



SECTION

Scale: 1 1/2" = 1'-0"

D S16.1 S16.1



SECTION

Scale: 1 1/2" = 1'-0"

C S16.1 S16.1

Notes:

1. Total number of conduits into pole foundation shall be as indicated on electrical plans. Conduit shall slope away from pole foundation. Conduit shall stub out 5'-0" minimum.

2. Electrician to determine grounding requirements and details for luminaire.

3. Drilled Shaft Vertical reinforcing shall be placed so that it does not conflict with the anchor bolts and anchor plates.

4. Concrete pedestal shall be poured monolithic with the drilled shaft.

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | NOTE BOOK | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | No. | DATE

DRAWING NAME: Z:\OD ONGINGA\OD CB PROJECTS\20-012-ALA MOANA PED BR-HAWAII CAD\08-03-21B BID FINAL NEW KBASE\AMP-S1601 LIGHTPOLE FDN.DWG PLOT TIME: 08-04-21, 10:09 AM)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

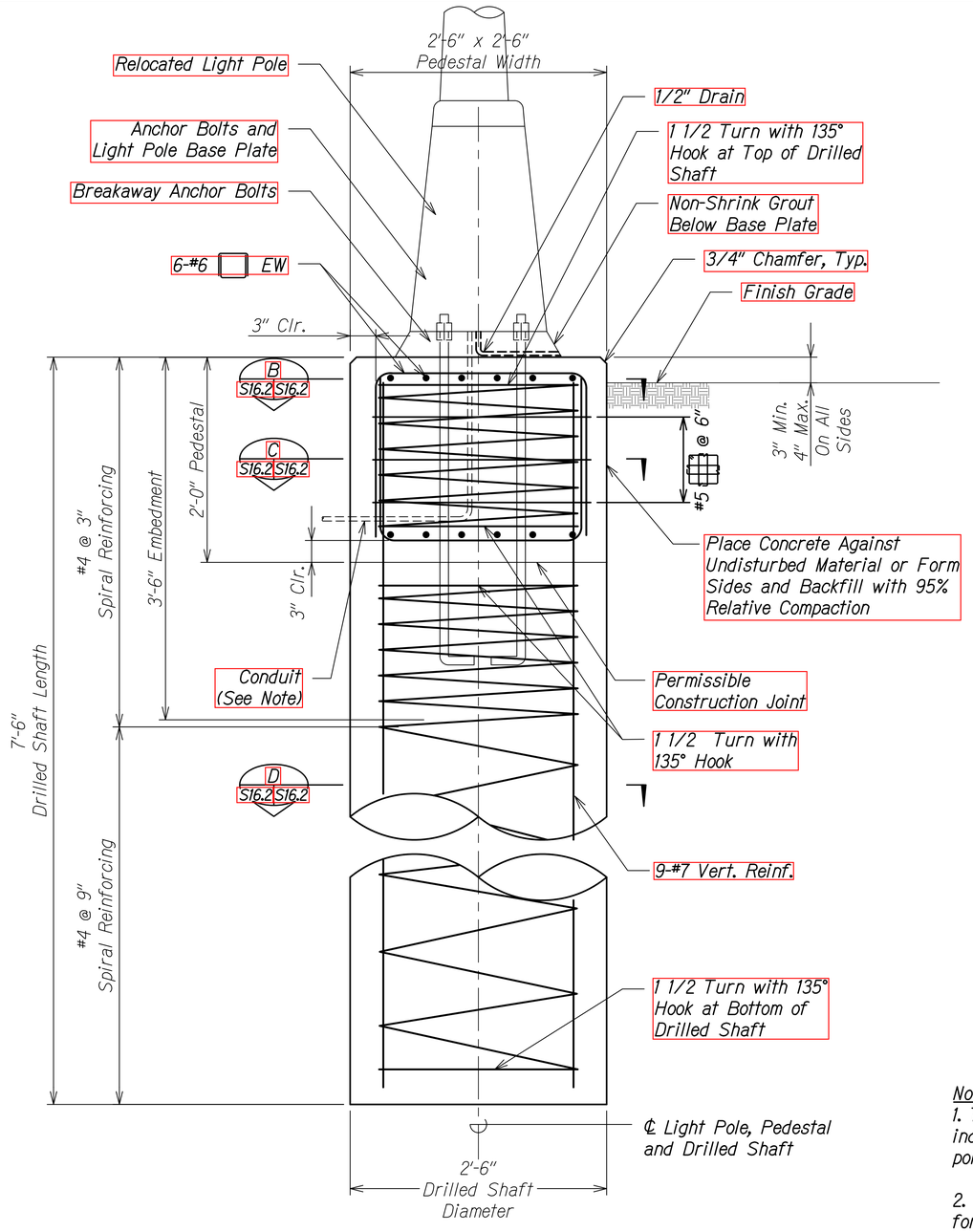
DECORATIVE HIGHWAY STREET LIGHT POLE FOUNDATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

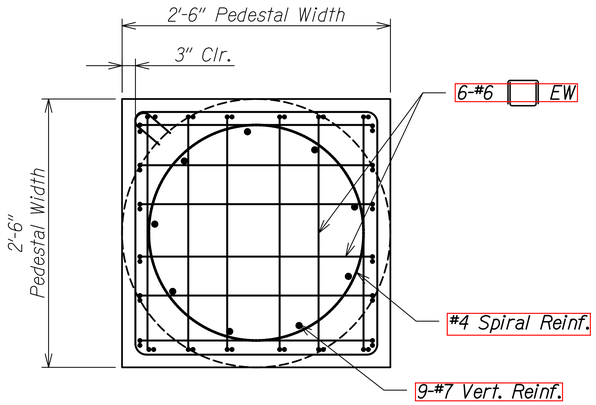
Scale: As Noted Date: July 2021

SHEET No. S16.1 OF 3 SHEETS

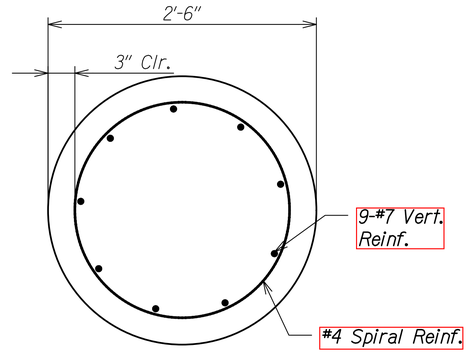
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	231	295



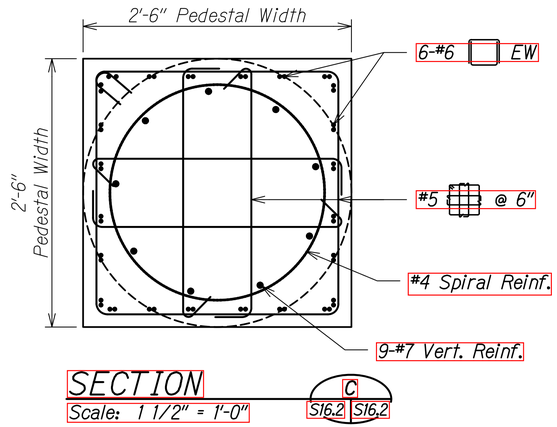
KEWALO BASIN RELOCATED
LIGHT POLE FOUNDATION ELEVATION (A S16.2 S16.2)
Scale: 1 1/2" = 1'-0"



SECTION (B S16.2 S16.2)
Scale: 1 1/2" = 1'-0"



SECTION (D S16.2 S16.2)
Scale: 1 1/2" = 1'-0"



SECTION (C S16.2 S16.2)
Scale: 1 1/2" = 1'-0"

Notes:
1. Total number of conduits into pole foundation shall be as indicated on electrical plans. Conduit shall slope away from pole foundation. Conduit shall stub out 5'-0" minimum.

2. Electrician to determine grounding requirements and details for luminaire.

3. Drilled Shaft Vertical reinforcing shall be placed so that it does not conflict with the anchor bolts and anchor plates.

4. Concrete pedestal shall be poured monolithic with the drilled shaft.

ORIGINAL PLAN | NOTE BOOK | No. | DATE | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY

STEPHEN T. PETERS LICENSED PROFESSIONAL ENGINEER NO. 17097-S HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEWALO BASIN RELOCATED LIGHT POLE FOUNDATION

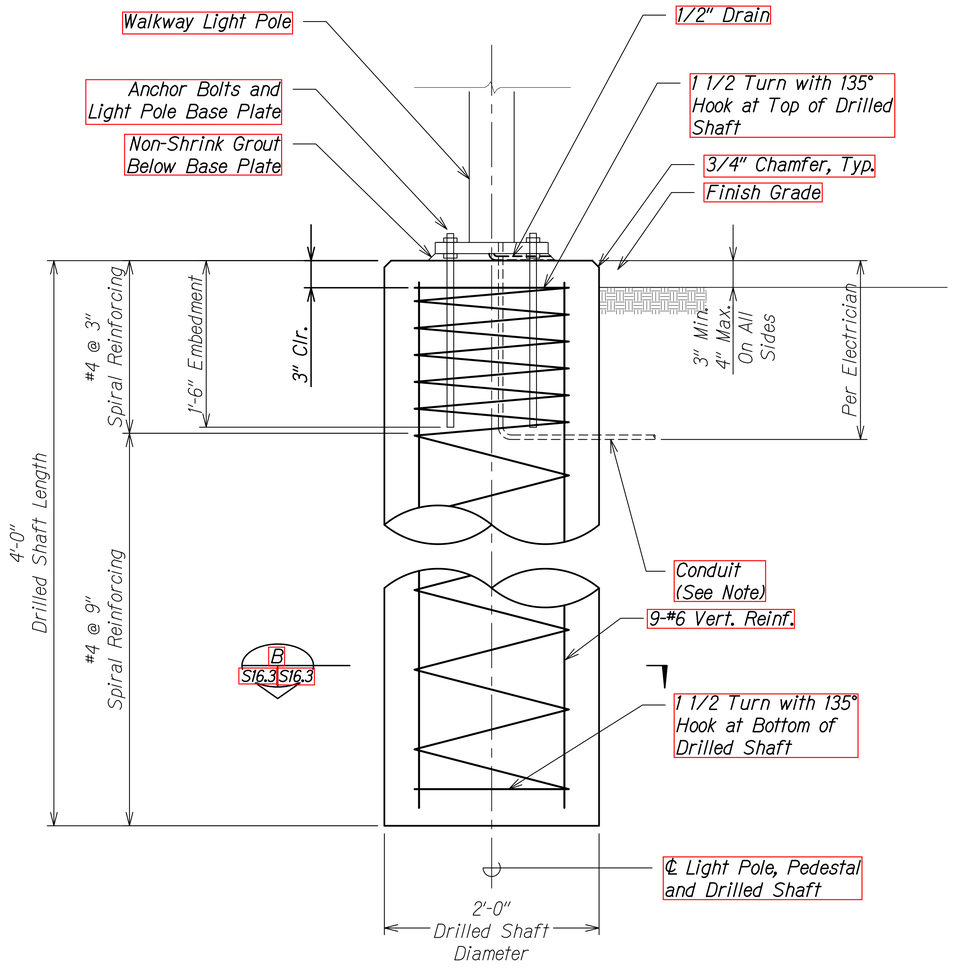
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

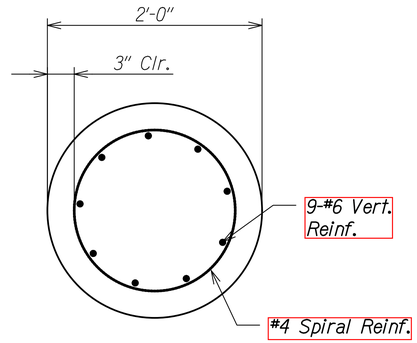
SHEET No. S16.2 OF 3 SHEETS

DRAWING NAME: Z:\JOB ORDERS\JOB FILES\20-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S1601 LIGHTPOLE FDN.DWG PLOT TIME: 08-04-21, 10:10 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	232	295



MAUKA RAMP WALKWAY
LIGHT POLE FOUNDATION ELEVATION (A, S16.3 | S16.3)
Scale: 1 1/2" = 1'-0"



SECTION (B, S16.3 | S16.3)
Scale: 1 1/2" = 1'-0"

Notes:
1. Total number of conduits into pole foundation shall be as indicated on electrical plans. Conduit shall slope away from pole foundation. Conduit shall stub out 5'-0" minimum.

2. Electrician to determine grounding requirements and details for luminaire.

3. Drilled Shaft Vertical reinforcing shall be placed so that it does not conflict with the anchor bolts and anchor plates.

ORIGINAL PLAN	SURVEY PLOTTED BY
NOTE BOOK	DRAWN BY
No.	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY

DATE

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAUKA RAMP WALKWAY
LIGHT POLE FOUNDATION

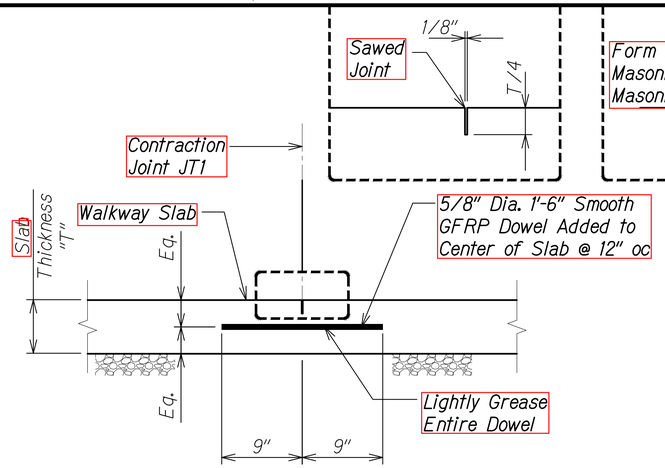
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S16.3 OF 3 SHEETS

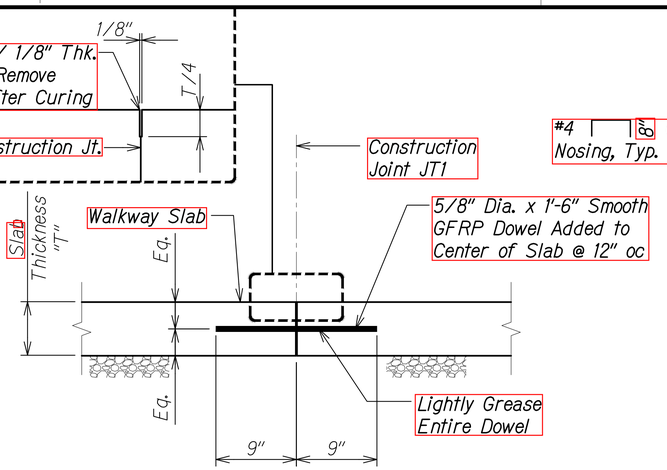
DRAWING NAME: Z:\00 ENGINEERING\00 CB PROJECTS\20-012-ALA MOANA PED BR-HAWAII CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1601 LIGHTPOLE FDN.DWG PLOT TIME: 08-04-21, 10:10 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	233	295



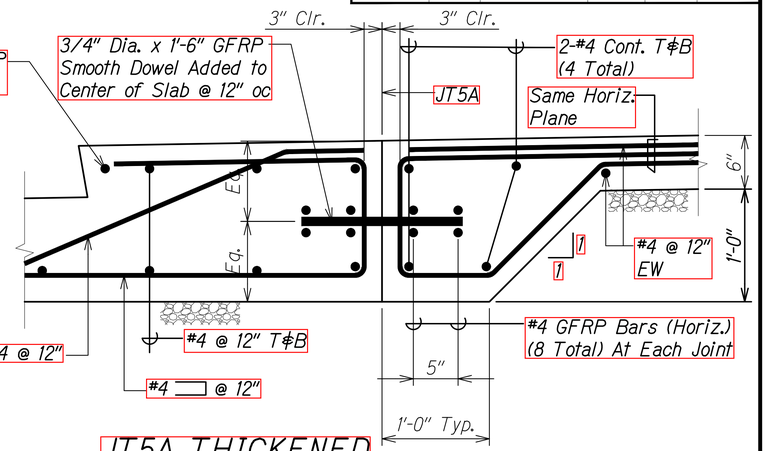
JT-1 WALKWAY SLAB TRANSVERSE CONTRACTION JOINT

Scale: 1 1/2" = 1'-0"



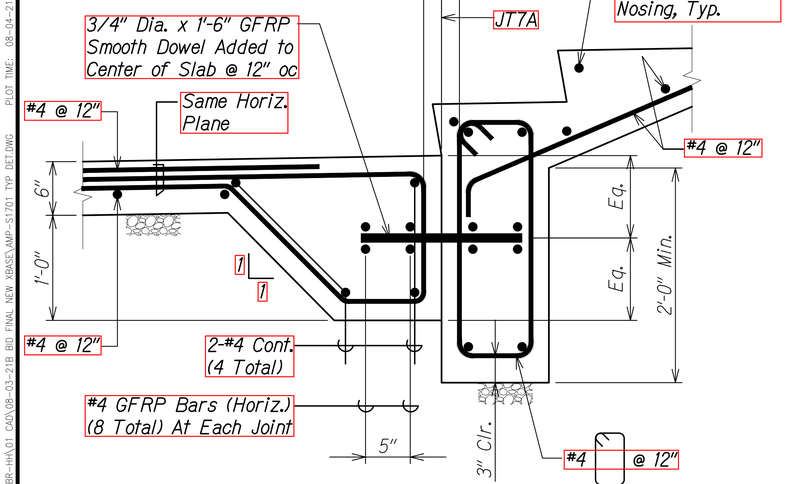
JT1 WALKWAY SLAB CONSTRUCTION JOINT AT TRANSVERSE CONTRACTION JOINT LOCATION

Scale: 1 1/2" = 1'-0"



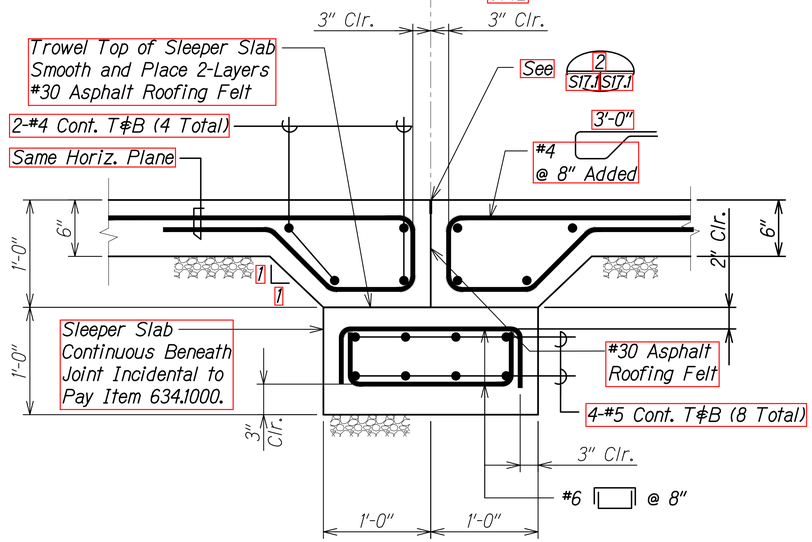
JT5A THICKENED SLAB EDGE CONTROL JOINT

Scale: 1 1/2" = 1'-0"



JT7A JOINT DETAIL AT BOTTOM OF STAIRS

Scale: 1 1/2" = 1'-0"



JT12 SLAB JOINTING DETAIL

Scale: 1 1/2" = 1'-0"

DATE	ISSUE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1701 TYP DETDWG PLOT TIME: 08-04-21, 10:10 AM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

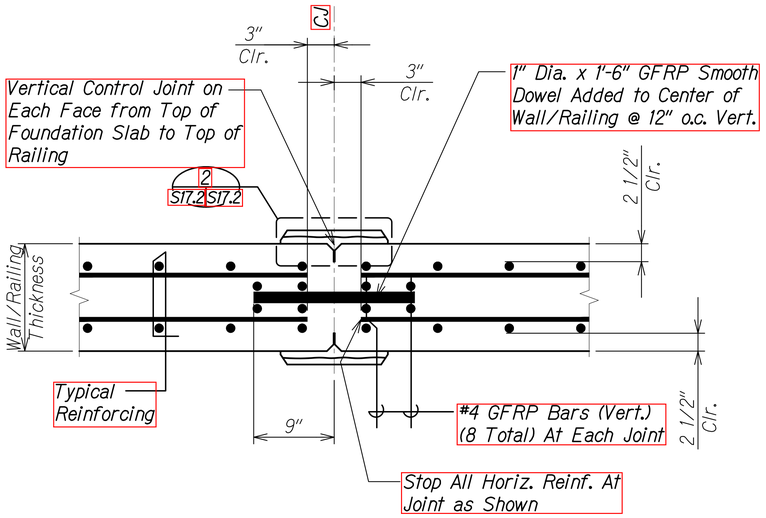
JOINTING DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S17.1 OF 11 SHEETS

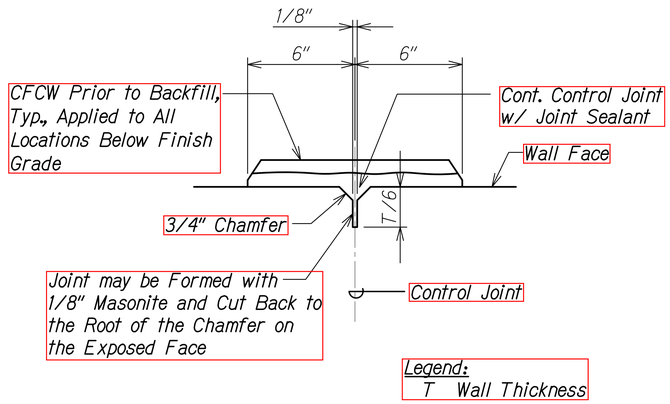
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	234	295



WALL/RAILING CONTROL JOINT

Scale: 1 1/2" = 1'-0"

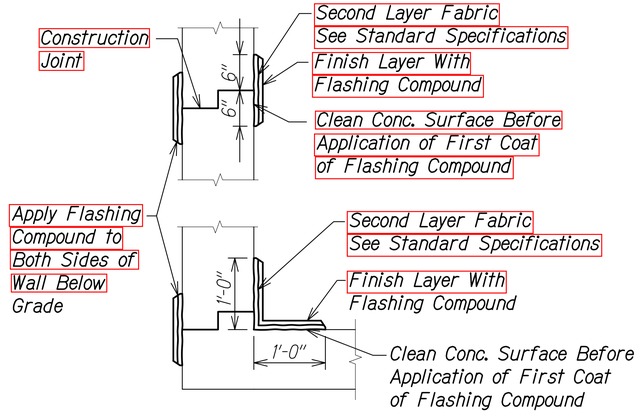
1 S17.2 S17.2



CONTROL JOINT DETAIL

Scale: 3" = 1'-0"

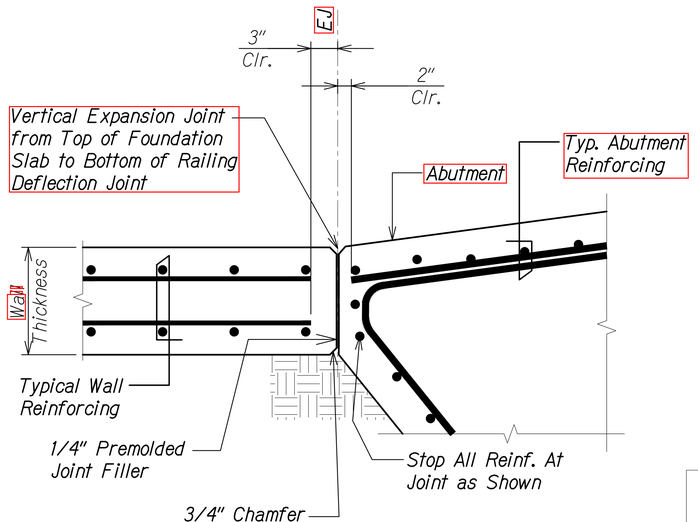
2 S17.2 S17.2



TYP. CONTINUOUS FLASHING COMPOUND WATERPROOFING (CFCW) DETAILS

Not to Scale

3 S17.2 S17.2



EXPANSION JOINT AT WALL/ABUTMENT INTERFACE

Scale: 1 1/2" = 1'-0"

4 S17.2 S17.2

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

JOINTING DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

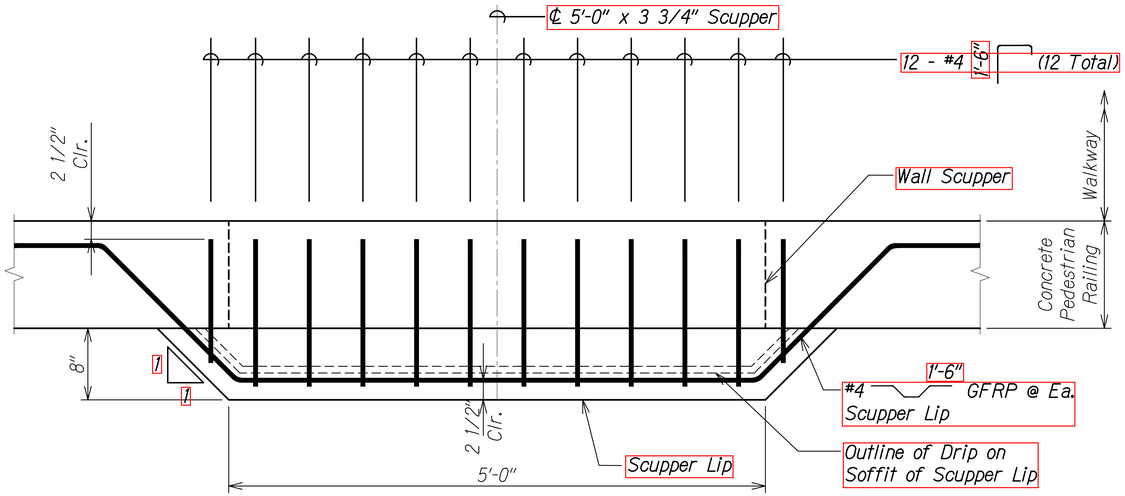
SHEET No. S17.2 OF 11 SHEETS

234

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK | No.

PLOT TIME: 08-04-21, 10:11 AM
DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HA\01 CAD\08-03-21B BID FINAL NEW KBASE\AMP-S1701 TYP DET.DWG

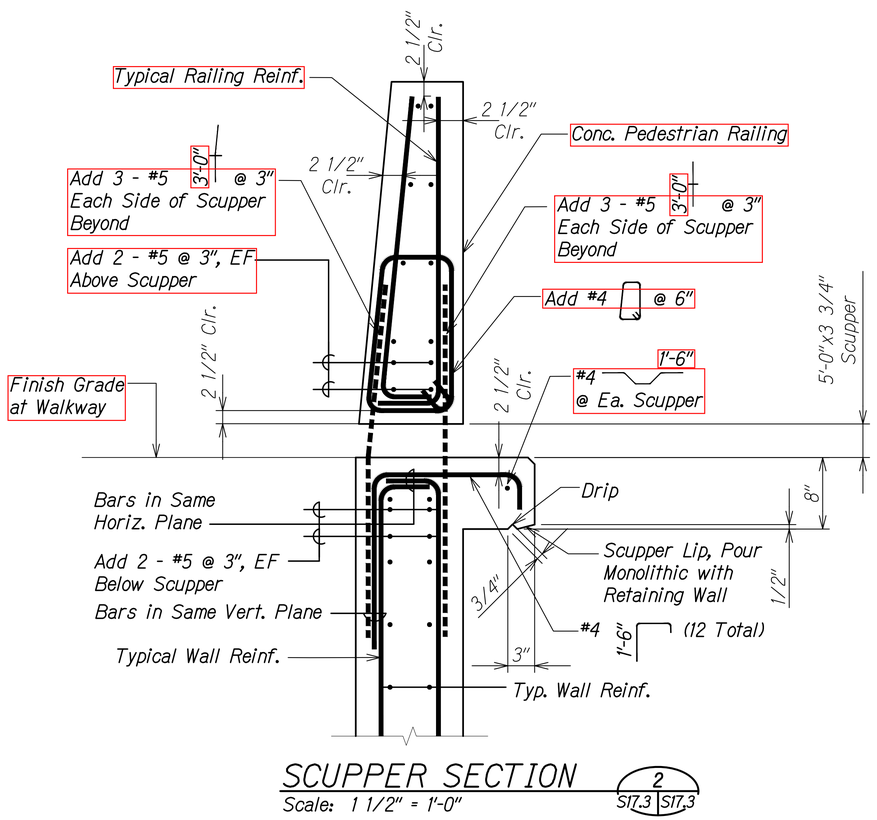
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	235	295



SCUPPER PLAN

Scale: 1 1/2" = 1'-0"

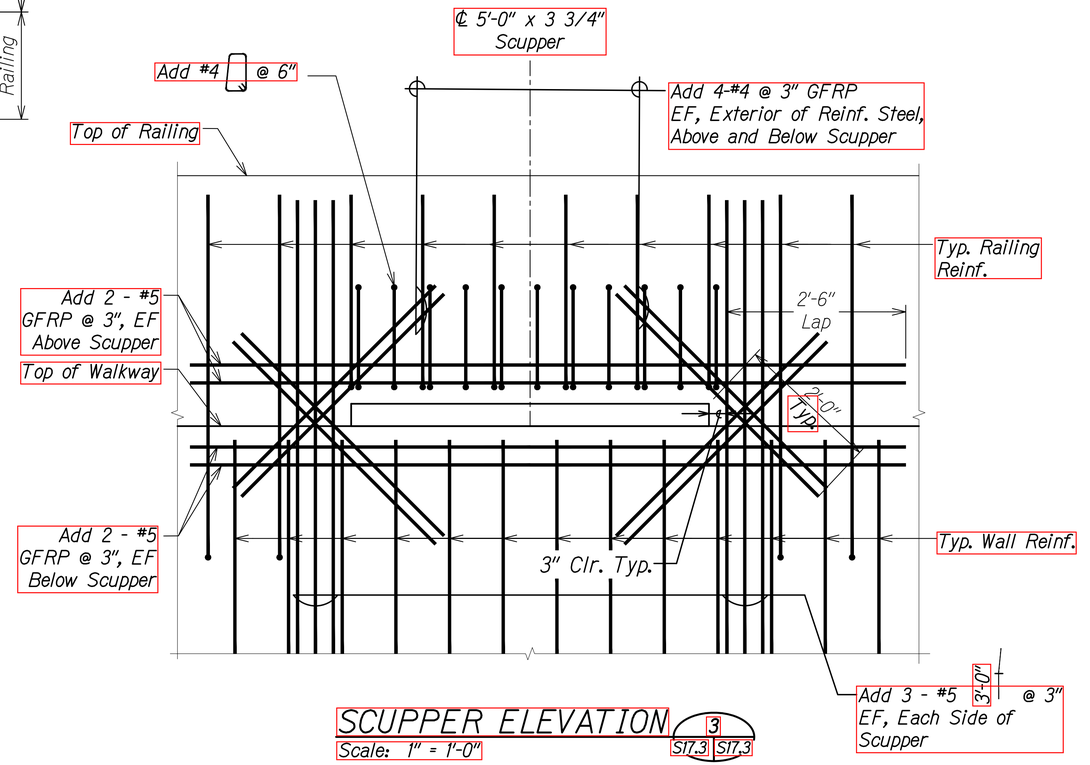
1 S17.3 S17.3



SCUPPER SECTION

Scale: 1 1/2" = 1'-0"

2 S17.3 S17.3



SCUPPER ELEVATION

Scale: 1" = 1'-0"

3 S17.3 S17.3

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DATE

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HW\01 CAD\08-03-21B BID FINAL NEW XBASE\ANP-S1703 TYP DET.DWG PLOT TIME: 08-03-21, 7:56 PM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

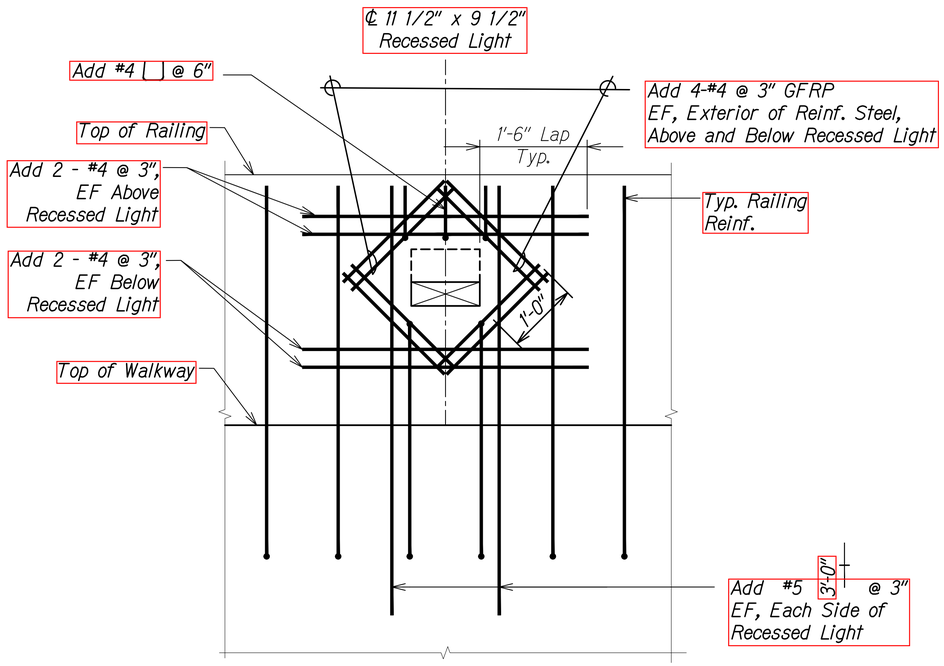
ADDED REINFORCING DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

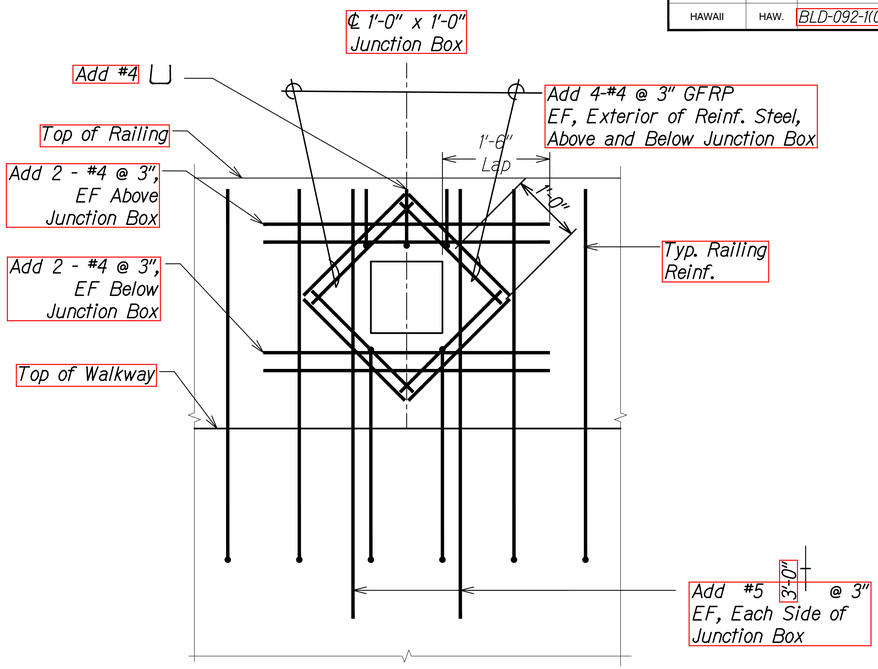
Scale: As Noted Date: July 2021

SHEET No. S17.3 OF 11 SHEETS

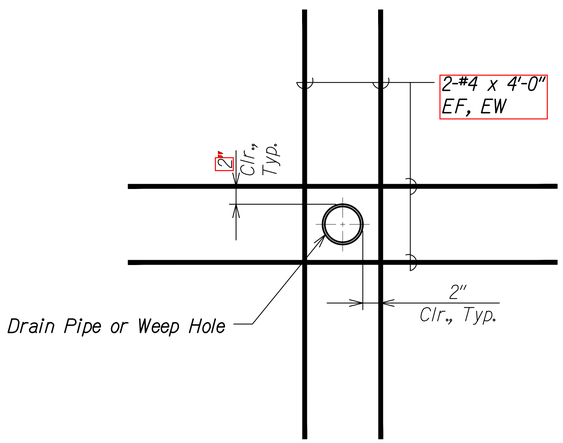
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	236	295



RECESSED LIGHT ELEVATION 1 S17.4 S17.4
Scale: 1" = 1'-0"



JUNCTION BOX ELEVATION 2 S17.4 S17.4
Scale: 1" = 1'-0"



ADDED REINFORCING AT WEEP HOLES AND DRAIN PIPES 3 S17.4 S17.4
Scale: 1 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDED REINFORCING DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

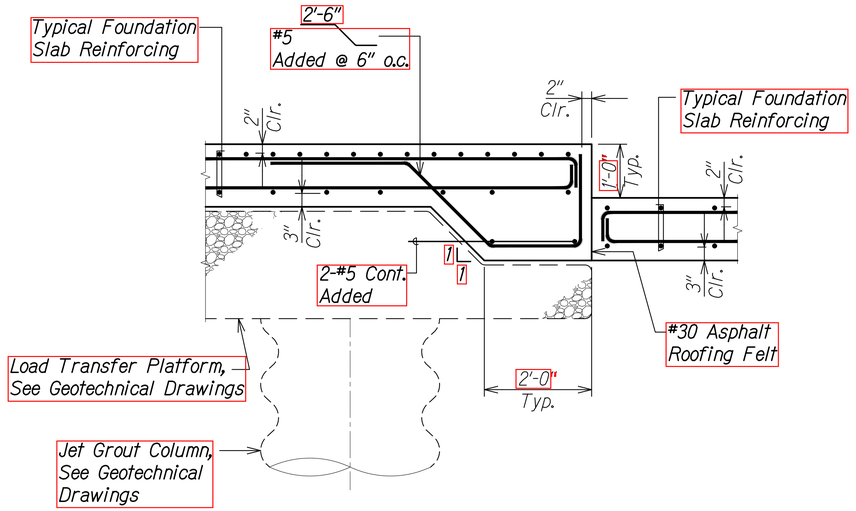
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SHEET No. S17.4 OF 11 SHEETS

PLOT TIME: 08-03-21, 7:10 PM
DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\OD-012-ALA MOANA PED BR-HA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1701 TYP DET.DWG

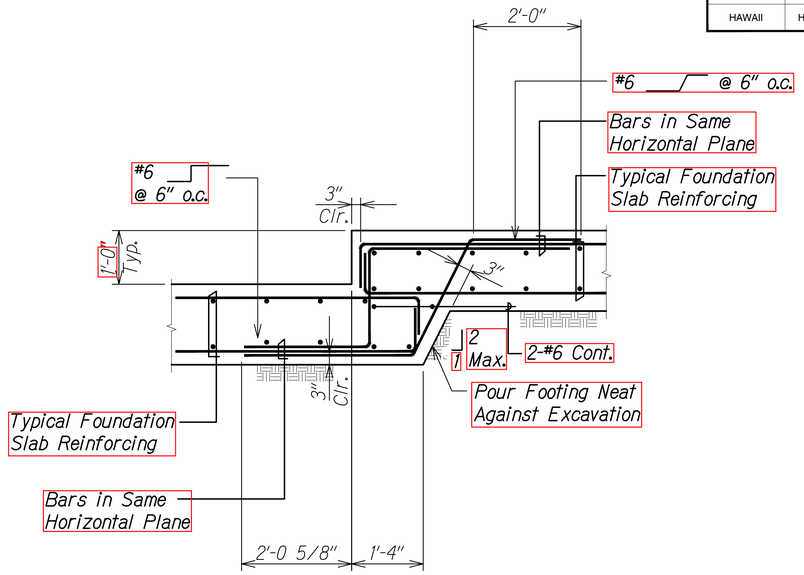
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	237	295



FOUNDATION SLAB STEP DETAIL AT ℄ STA. 14+88.27

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

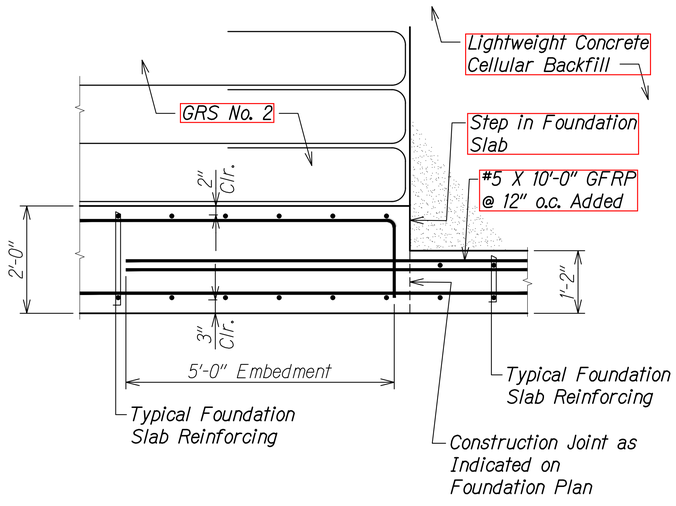
1 S17.5 S17.5



FOUNDATION SLAB STEP DETAIL AT MAUKA/DIAMOND HEAD LOCATION

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

3 S17.5 S17.5



FOUNDATION SLAB STEP DETAIL AT GRS NO. 2

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

2 S17.5 S17.5

DATE ISSUE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\CO ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-ST05 FDN DETDWG PLOT TIME: 08-04-21, 10:11 AM

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

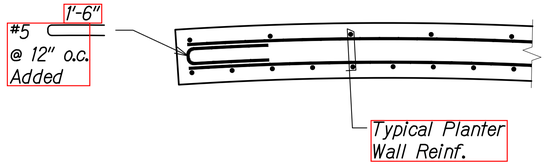
TYPICAL DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S17.5 OF 11 SHEETS

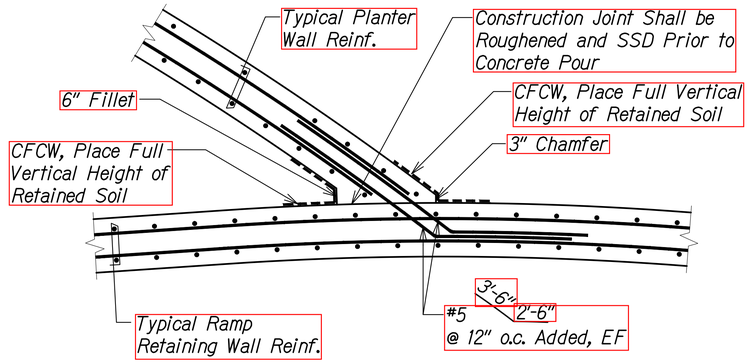
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	238	295



TYPICAL DETAIL AT END OF PLANTER WALL

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

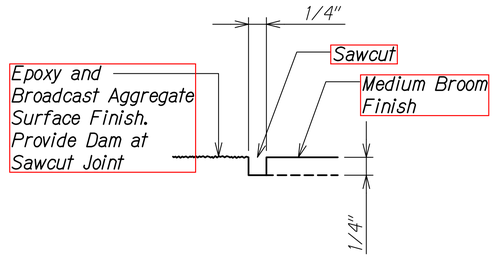
A S17.6 S17.6



TYPICAL CONNECTION AT PLANTER WALL AND RAMP RETAINING WALL

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

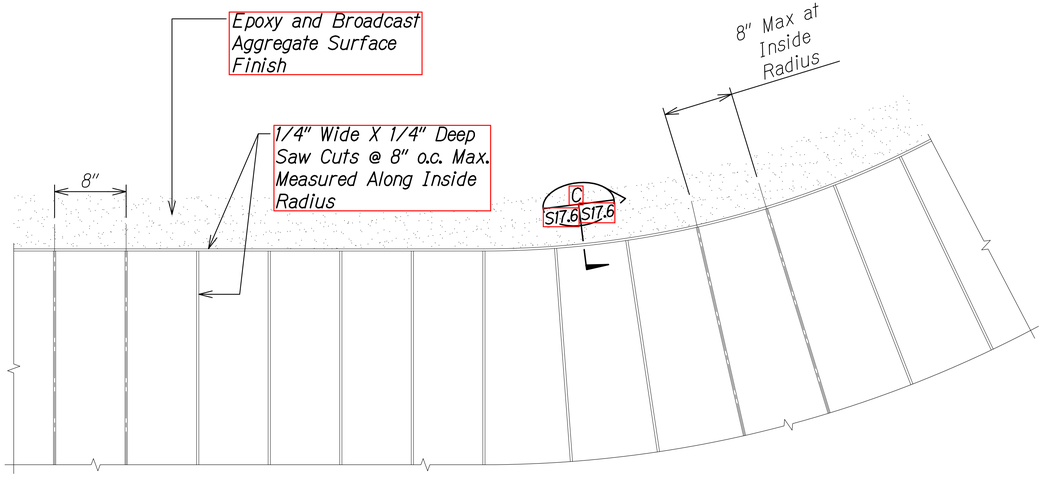
B S17.6 S17.6



SECTION

Scale: 1 1/2" = 1'-0"

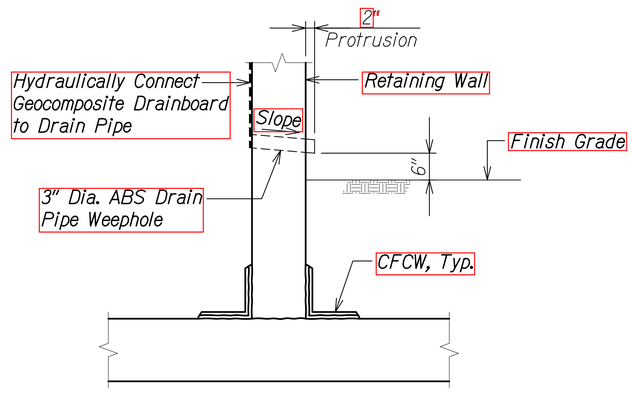
C S17.6 S17.6



SAWCUT SURFACE FINISH DETAIL

Scale: 1 1/2" = 1'-0"

1 S17.6 S17.6



TYPICAL WEEPHOLE DETAIL

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

2 S17.6 S17.6

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

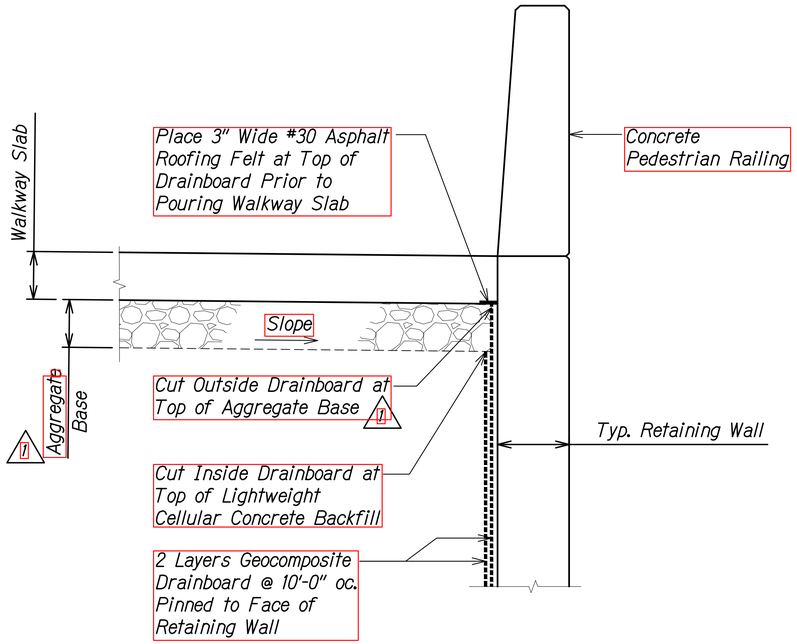
Scale: As Noted Date: July 2021

SHEET No. S17.6 OF 11 SHEETS

238

PLOT TIME: 08-04-21, 10:11 AM)
DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\OD-012-ALA MOANA PED BR-HI\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1706 TYP DET.DWG

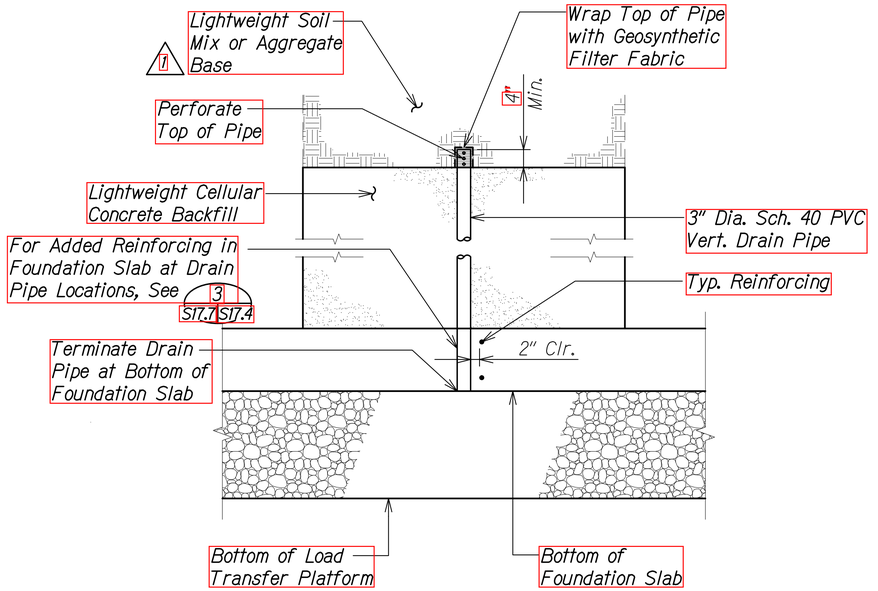
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 239	295



TYPICAL DRAINBOARD DETAIL AT RETAINING WALL

Scale: 1" = 1'-0"

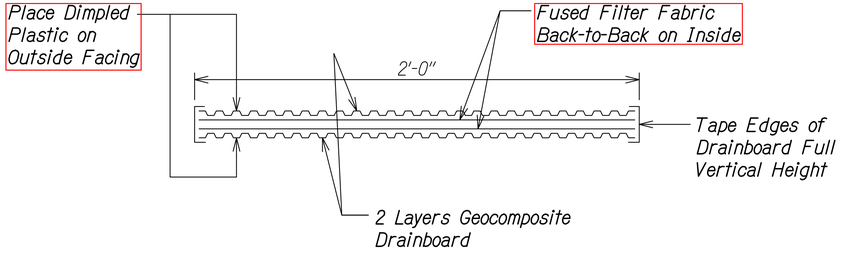
1 S17.7 S17.7



TYPICAL VERTICAL DRAIN PIPE DETAIL

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

3 S17.7 S17.7



TYPICAL DRAINBOARD DETAIL

Scale: 3" = 1'-0"

2 S17.7 S17.7

DATE	REVISION
8/30/21	Revised Notes

1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

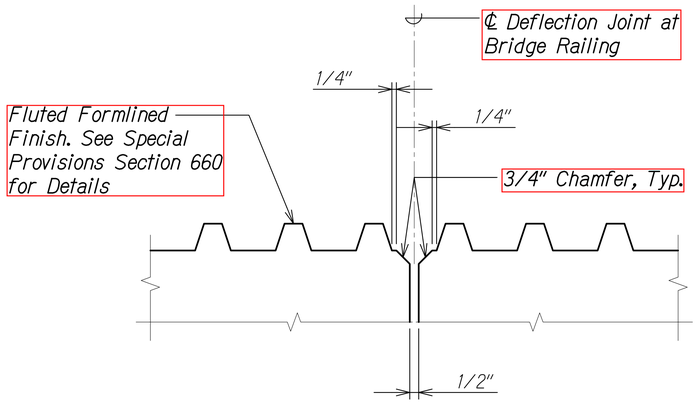
SHEET No. S17.7 OF 11 SHEETS

ADD. 239

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\OD ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\08-30-21 ADD\AMP-S1707 TYP DET ADD1.DWG PLOT TIME: 08-30-21, 11:39 AM

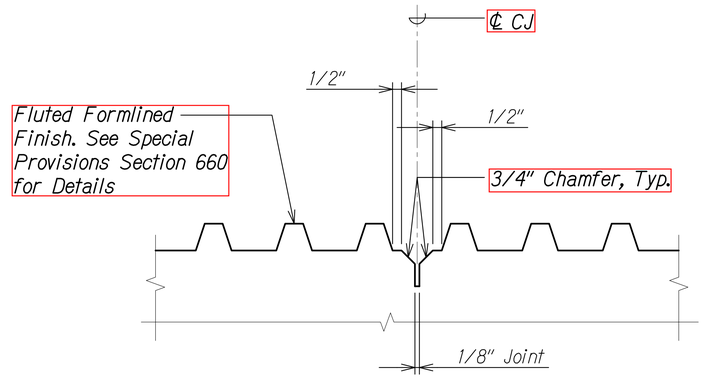
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	240	295



FLUTED FORMLINED CONCRETE DETAIL AT DEFLECTION JOINT

Scale: 1 1/2" = 1'-0"

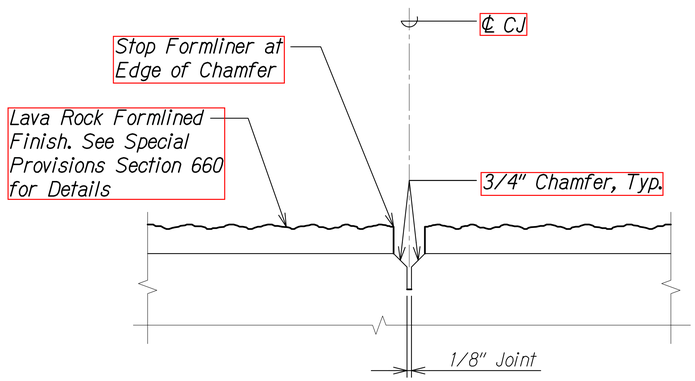
1 S17.8 S17.8



FLUTED FORMLINED CONCRETE DETAIL AT CONTROL JOINT

Scale: 1 1/2" = 1'-0"

2 S17.8 S17.8



LAVA ROCK FORMLINED CONCRETE DETAIL AT CONTROL JOINT

Scale: 1 1/2" = 1'-0"

3 S17.8 S17.8

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\OD-012-ALA MOANA PED BR-HA\01 CAD\OD-03-21B BID FINAL NEW XBASE\AMP-S1708 TYP DET.DWG PLOT TIME: 08-03-21, 8:08 PM)

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

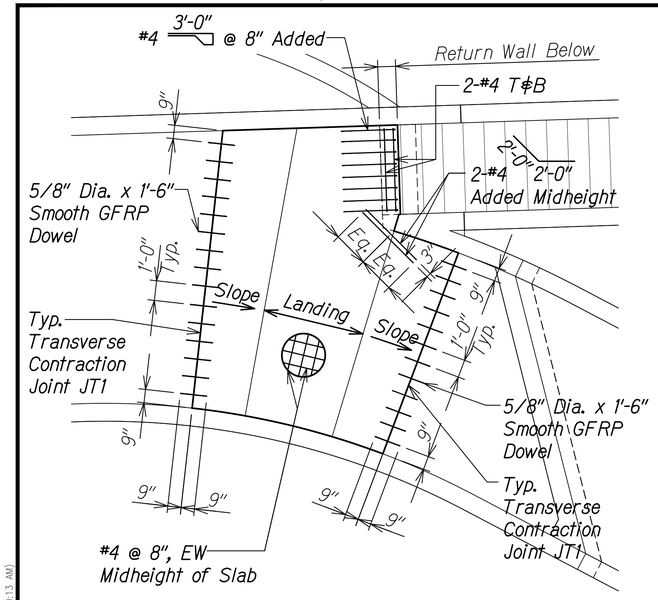
TYPICAL DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

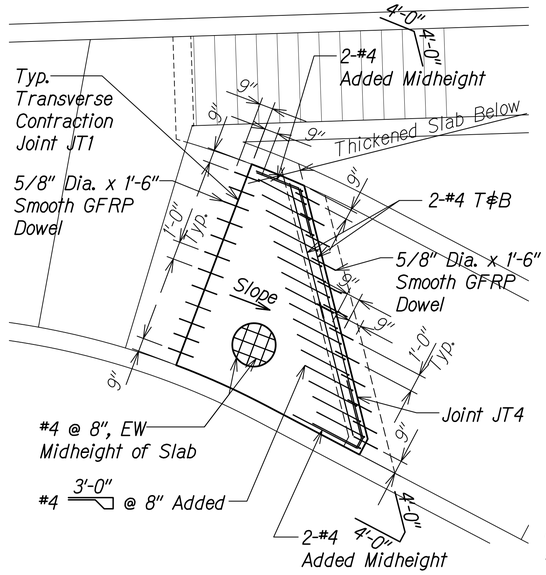
SHEET No. S17.8 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	241	295



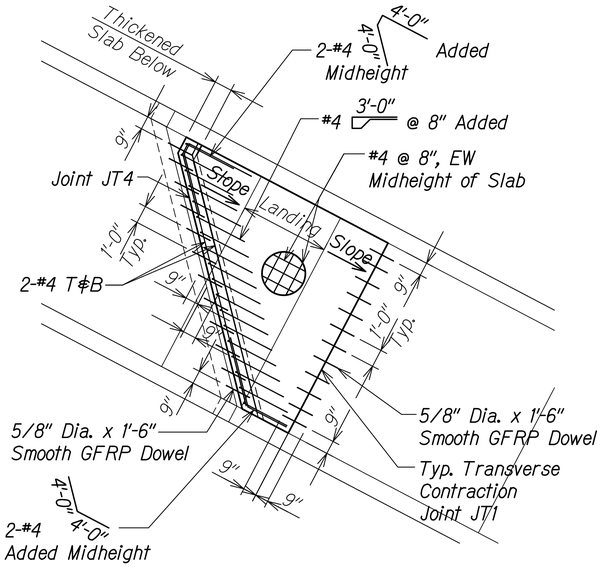
PANEL P-1
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Scale: 1/4" = 1'-0"

S17.9 | S17.9



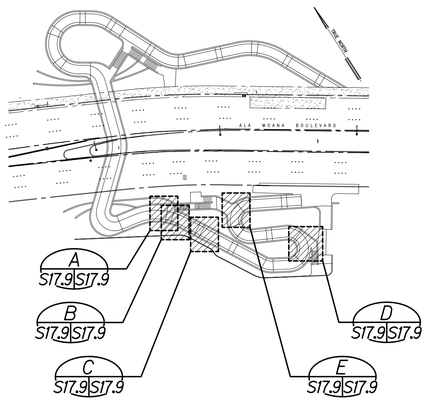
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Scale: 1/4" = 1'-0"

S17.9 | S17.9

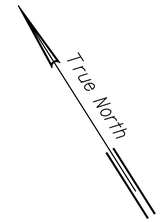


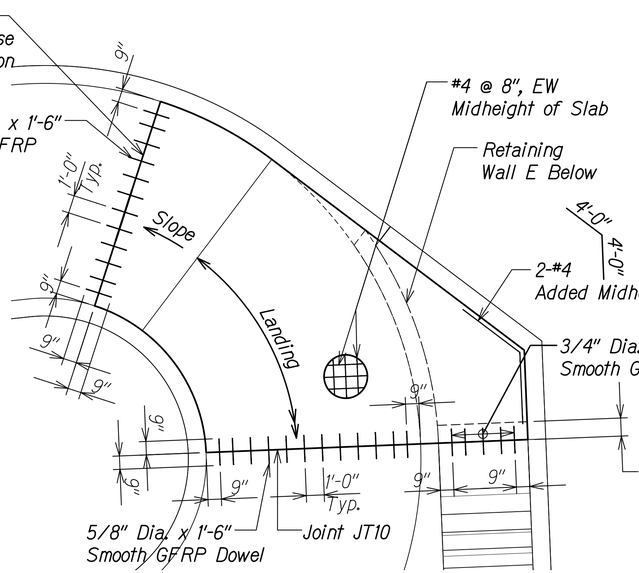
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Scale: 1/4" = 1'-0"

S17.9 | S17.9



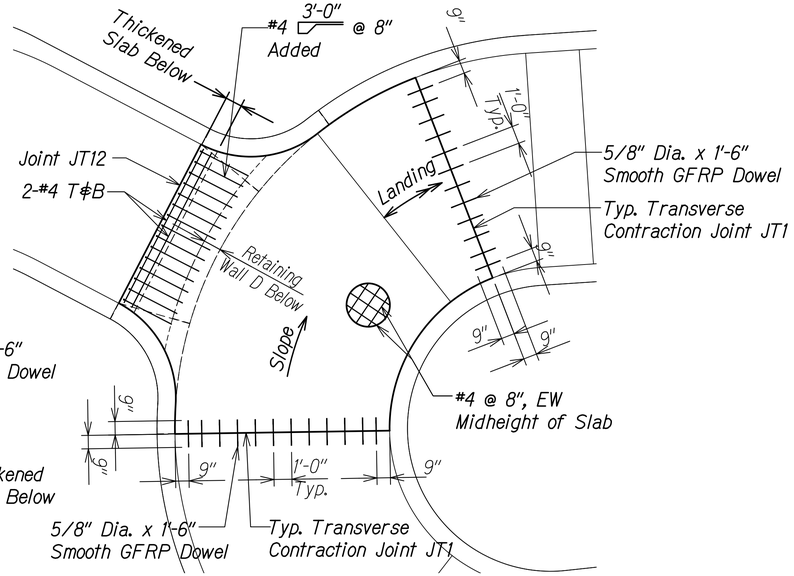
KEY PLAN





PANEL P-4
ADDED REINFORCING (D)
Scale: 1/4" = 1'-0"

S17.9 | S17.9



PANEL P-5
ADDED REINFORCING (E)
Scale: 1/4" = 1'-0"

S17.9 | S17.9

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALKWAY SLAB REINFORCING DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted — Date: July 2021

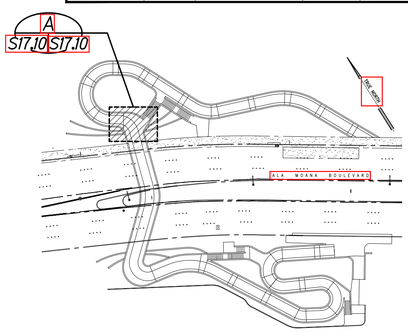
SHEET No. S17.9 OF 11 SHEETS

241

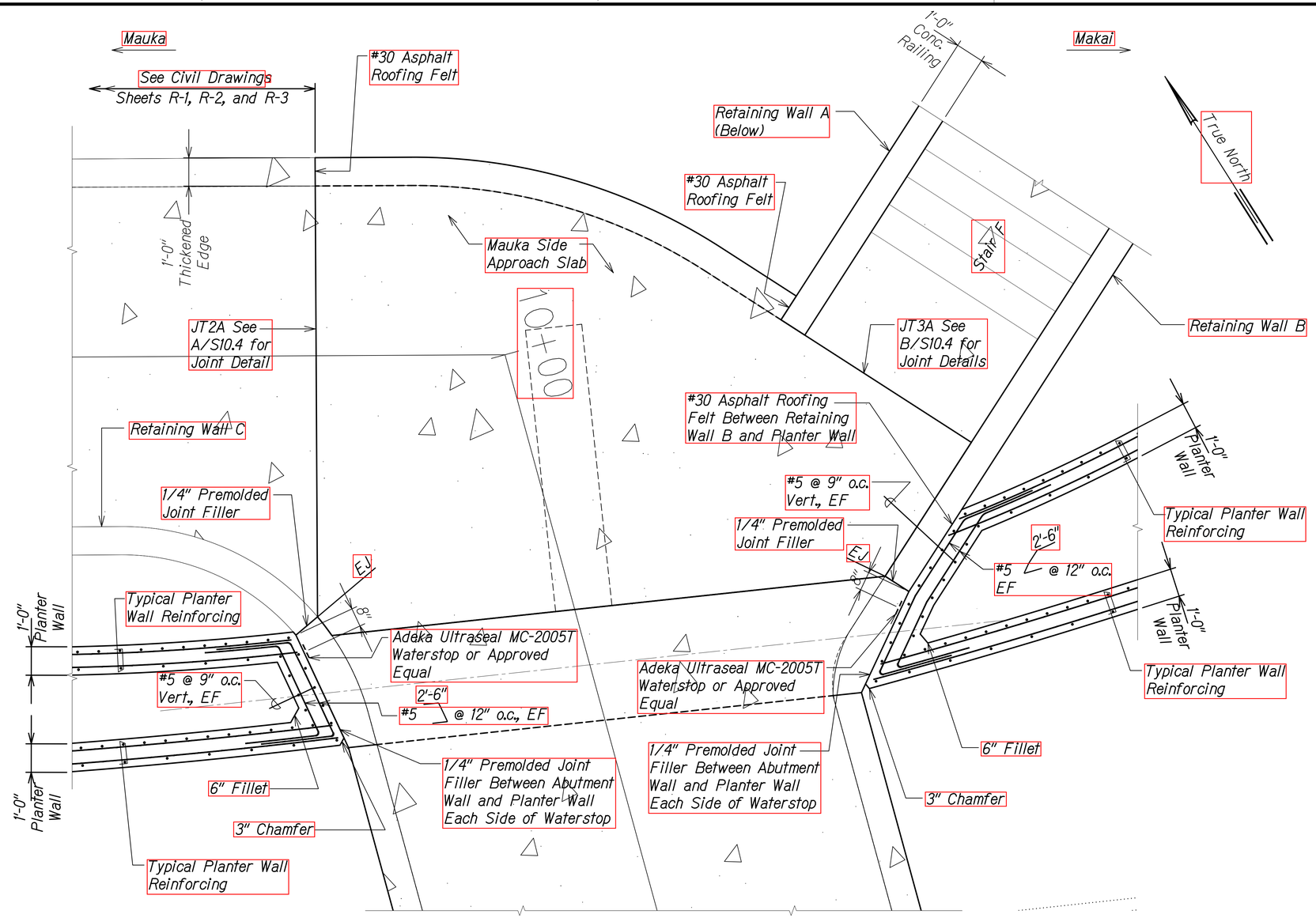
ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGN BY | QUANTITIES BY | CHECKED BY | DATE

DRAWING NAME: Z:\JOB ONGOING\JOB 2B PROJECTS\28-012-ALA MOANA PED BR-HWY\01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S1709 ENLGD PLAN.DWG PLOT TIME: 08-04-21, 10:13 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	242	295



KEY PLAN



ENLARGED PLAN DETAIL
Scale: 1/2" = 1'-0"

A
S17.10 S17.10

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAWING NAME: Z:\OD ONGOING\OD 28 PROJECTS\28-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASES_MP-S1710 ENLGD PLANDWG PLOT TIME: 08-04-21, 1:41 PM

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NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ENLARGED PLAN DETAIL

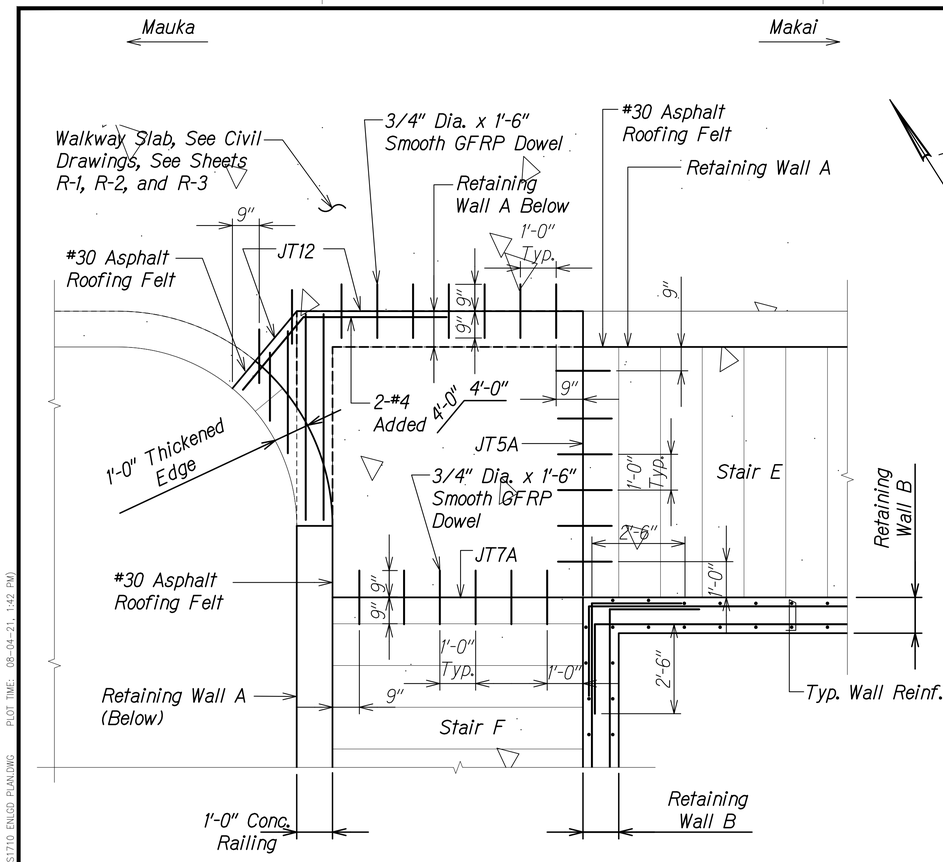
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

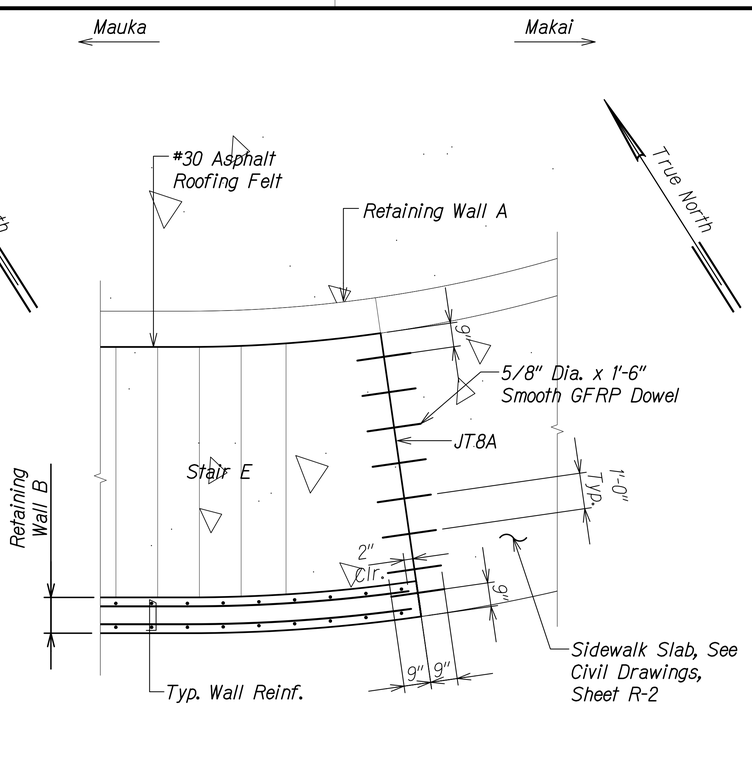
SHEET No. S17.10 OF 11 SHEETS

242

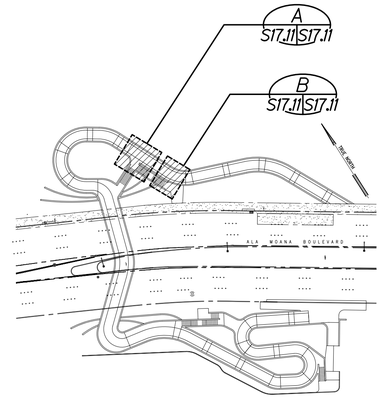
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	243	295



ENLARGED PLAN DETAIL A
Scale: 1/2" = 1'-0"
S17.11 S17.11



ENLARGED PLAN DETAIL B
Scale: 1/2" = 1'-0"
S17.11 S17.11



KEY PLAN

DRAWING NAME: Z:\OD ONGOING\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\MP-S1710 ENLGD PLANS.DWG PLOT TIME: 08-04-21, 1:42 PM

DATE	REVISED
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

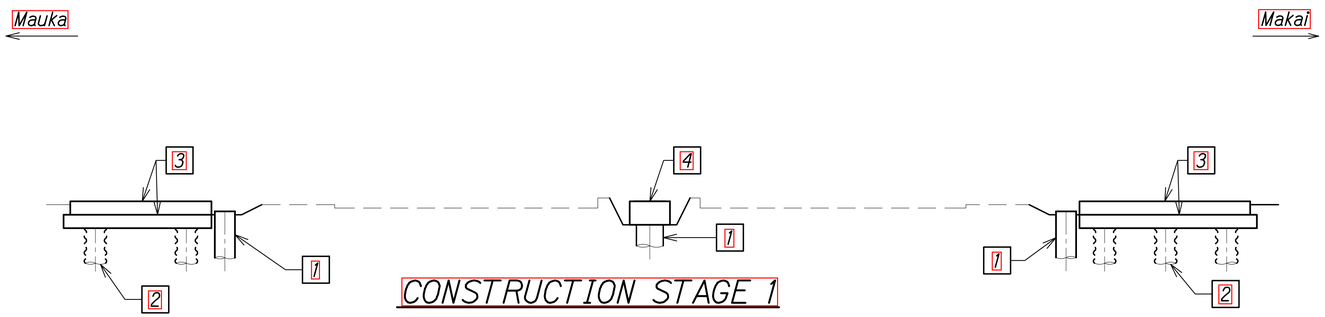
ENLARGED PLAN DETAILS

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

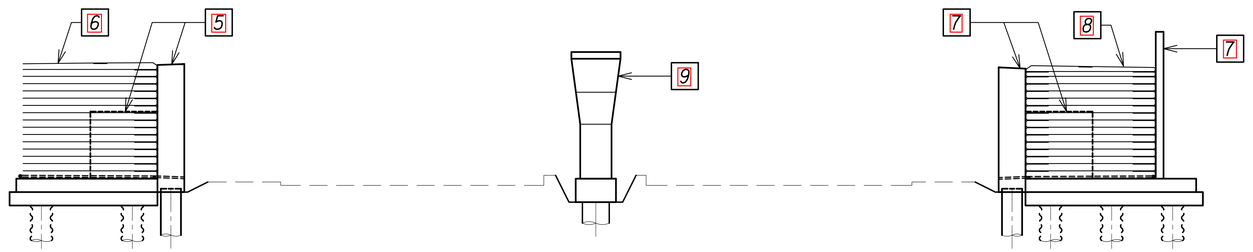
Scale: As Noted Date: July 2021

SHEET No. S17.11 OF 11 SHEETS

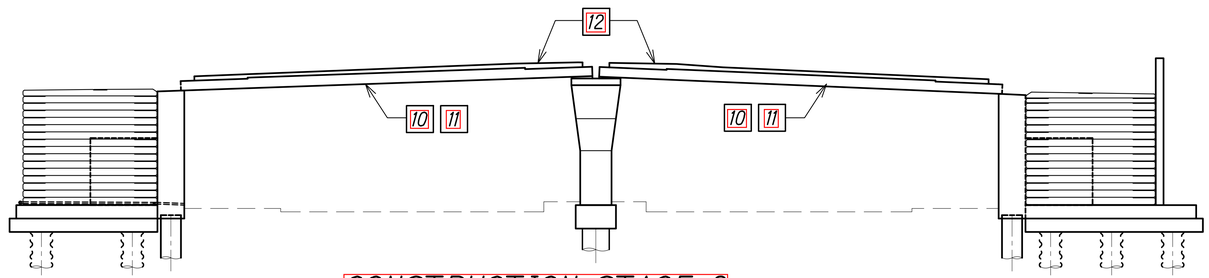
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	244	295



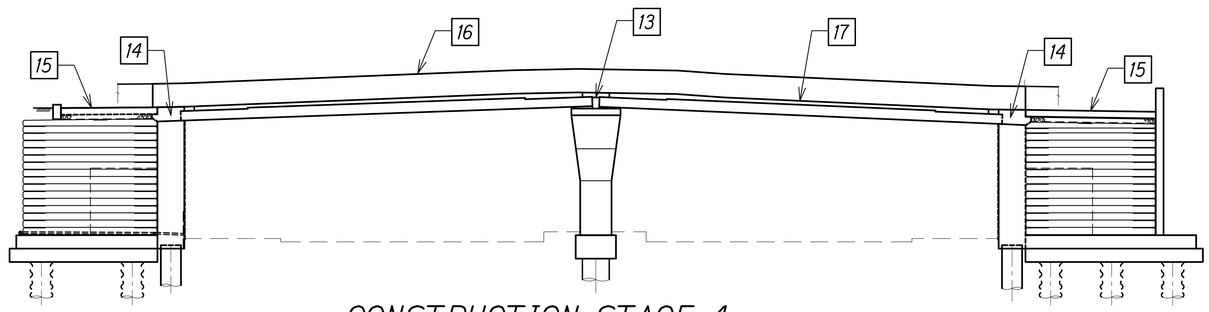
CONSTRUCTION STAGE 1



CONSTRUCTION STAGE 2



CONSTRUCTION STAGE 3



CONSTRUCTION STAGE 4

CONSTRUCTION STAGE 1

1. Install drilled shafts at Abutment and Pier locations.
2. Install jet grout columns at Mauka and Makai sides of walkway ramp.
3. Construct load transfer platform and foundation slab above jet grout columns.
4. Construct drilled shaft cap at Pier location. See note 3

CONSTRUCTION STAGE 2

5. Construct Mauka Abutment, skeg wall, and retaining walls. See note 3
6. Place GRS backfill behind Mauka Abutment and along Mauka side of walkway ramps. Refer to Geotechnical drawings for requirements.
7. Construct Makai Abutment, skeg wall, and retaining walls. See note 3
8. Place GRS backfill behind Makai Abutment above foundation slab.
9. Construct Pier. See note 4

CONSTRUCTION STAGE 3

10. Erect prestressed planks. See note 5
11. Fill keys between precast slabs with non-shrink grout.
12. Pour concrete topping. See note 6

CONSTRUCTION STAGE 4

13. Pour hinge diaphragm at Pier. See note 7
14. Pour end beam and corbel at Abutments. See note 7
15. Construct sleeper slabs and approach slabs. See note 8
16. Pour pedestrian railings.
17. Sawcut boardwalk surface finish and apply epoxy and broadcast aggregate surface finish. See note 9

DATE

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

PLOT TIME: 08-04-21, 10:14 AM)
DRAWING NAME: Z:\OD ONO\ONO\00 CB PROJECTS\20-012-ALA MOANA PED BR-HWY01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1801 CONST SEQ.DWG

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE CONSTRUCTION SEQUENCE

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S18.1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	245	295

CONSTRUCTION SEQUENCE NOTES:

1. The order of the Construction Sequence shall not be changed unless approved by the Engineer.

2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceeding sequence stage.

3. Perform [4], [5], and [7] at least 7 days after the final drilled shaft has been poured and after the drilled shaft concrete has attained a minimum compressive strength of 4,000 psi.

4. Perform [9] at least 15 days after [4] and after drilled shaft cap has attained 7,000 psi.

5. Perform [10] at least 15 days after [5], [7], and [9].

6. Perform [12] at least 7 days after [11] and after grout has attained a minimum compressive strength of 5,000 psi.

7. Perform [13] and [14] a minimum of 30 days after [12]. Concrete pour shall occur between 1:00 am and 3:00 am.

8. Construct approach slab at least 7 days after construction of sleeper slab.

9. Perform [17] a minimum of 30 days after [12] and [15].

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

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SIGNATURE 4-30-22 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION SEQUENCE NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S18.2 OF 2 SHEETS

DRAWING NAME: Z:\OD ONGONGO\OD CB PROJECTS\20-012-ALA MOANA PED BR-HWA\01 CAD\08-03-21B BID FINAL NEW XBASE\AMP-S1801 CONST SEQ.DWG PLOT TIME: 08-04-21, 10:14 AM)