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ESTIMATED QUANTITIES				
Bridge Name	Item No.	Item	QTY	Unit
Alapai Overcrossing	202.0100	Removal of Concrete Curb	790	LF
Punahou Overpass	202.0200	Removal of Bride Railing - Concrete	220	LF
Wilder Overcrossing	202.0300	Removal of Bridge Railing - Metal	570	LF
Wilder Overcrossing	507.0100	Metal Bride Railing	570	LF
Punahou Overpass	507.0200	Concrete Bride Railing	220	LF
Ward Overpass	512.0100	Concrete Rehabilitation of Cracks	49	LF
Keaaumoku Overpass	512.0200	Concrete Rehabilitation of Spalls	20	SF
McCully Overpass	512.0200	Concrete Rehabilitation of Spalls	69.5	SF
Miller Overcrossing	512.0200	Concrete Rehabilitation of Spalls	27	SF
Piikoi Viaduct	512.0200	Concrete Rehabilitation of Spalls	79.75	SF
Ward Overpass	512.0200	Concrete Rehabilitation of Spalls	3.25	SF
Replace Reinforcing Steel	602.0100	Replace Reinforcing Steel	F.A.	F.A.
Piikoi Viaduct	604.0100	Cast Iron Grate 8 1/4" x 1'-11 3/4"x 1" (Viaduct Deck Scuppers)	5	EA
Alapai Overcrossing	638.0100	Curb, Type 2D	790	LF
Piikoi Viaduct	676.0100	Repair for Concrete Deck	770	SF

GENERAL STRUCTURAL NOTES:

DESIGN SPECIFICATIONS:

AASHTO 2017 LRFD Bridge Design Specifications with Subsequent Interim Specifications and as Modified by State of Hawaii, Highways Division, "Design Criteria for Bridges and Structures", dated August 14, 2014

GENERAL SPECIFICATIONS:

The State of Hawaii 2005 Standard Specifications for Road and Bridge Construction, and Special Provisions Prepared for This Project.

DESIGN LIVE LOAD:

Pedestrian live load - 75 psf

ADDITIONAL LOADS:

Bridge railing (pedestrian) -50 plf transverse and vertical
-200 lbs concentrated load
Bridge railing (overpasses) - LRFD TL-2.

MATERIALS:

- Reinforced concrete: f'c=4000 psi, unless noted otherwise.
- Reinforcing steel: ASTM A615, Grade 60 unless noted otherwise.
- Reinforcing steel to be welded: ASTM A706, Grade 60 unless noted otherwise.
- Structural steel: ASTM A36, hot dip galvanized, unless noted otherwise.
- Stainless steel: Type 316, unless noted otherwise.
- All welding shall be in accordance with the current edition of reinforcing steel welding code AWS D 1.4.
- Provide shrinkage reducing admixture and migrating corrosion inhibiting admixture to concrete for bridge decks, and bridge railings. see special provision for requirements.
- Concrete repair material for viaduct deck damage repair: f'c=6000 psi, see Section 676 of the special provisions.
- Concrete repair material for the rehabilitation of damaged or deteriorated structural concrete for the surfaces of bridge railings, sidewalks, and surfaces indicated: f'c=6,000 psi, see Section 512 of the special provisions.

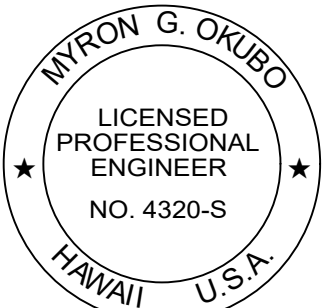
GENERAL:

- All items noted incidental will not be paid for separately.
- Standard detail drawings refer to all structures in general, except for modifications as may be required for special conditions. For such modifications, refer to the corresponding detailed drawings.
- Edge of existing concrete to be remained shall be square cut by sawcutting to a minimum depth of 1/2" or up to the depth of existing reinforcement.

CONSTRUCTION NOTES:

- Materials and workmanship shall conform to the State of Hawaii 2005 Standard Specification for Road and Bridge Construction, and Special Provisions Prepared for This Project, Project Drawings, and Project Specific Permit Requirements. Per Hawaii Standard Specification Subsection 106.11, the Contractor shall submit a certification of material origin to meet the requirement for the use of American-Made materials.
- In general, top of concrete deck slab shall be constructed to follow the roadway vertical and horizontal Curves.
- For the installation of anchor bolts, the Contractor shall provide rigid templates to maintain the proper locations and shall protect such anchor bolts at all times during the period of construction. Methods shall be approved by the Engineer.
- Except as noted otherwise, all vertical dimensions are measured plumb.
- Information for existing bridge has been prepared based on record drawings. The Contractor shall verify all site conditions and not rely upon these plans for utilities, stream location, or other existing features, etc. Conditions may differ from those shown.
- Record drawings are available for review at the State of Hawaii Department of Transportation, Highways Division.
- The Contractor shall verify the location of all utility lines and notify the respective owners before commencing the work. Any damage to utility lines caused by the Contractor shall be replaced at his expense and at no cost to the State.
- For concrete finish, see Standard Specifications.
- Unless noted otherwise, all exposed concrete edges shall be chamfered 3/4"x3/4".
- Contractor to take adequate measures to protect the public and structures during construction. Such measures shall include but not be limited to falsework, formwork, bracing, loads for construction equipment, wind forces, stream flow, seismic forces, and others. No debris shall be allowed to fall onto roadway due to construction operations. Submit debris containment plan to the Engineer for review and approval prior to starting the work.
- Contractor to be solely responsible for acquiring required construction related permits from the various government agencies required to complete the work.
- Contractor shall take precautions to prevent damage to existing reinforcing steel that is to be incorporated into the new work.
- All expansion and premolded joint filler shall be incidental to concrete and will not be paid for separately.
- H-1 lanes/on-ramps/off-ramps lane closure scenario:
 - Partial closure scenario: The Contractor's work zone will be located on the shoulder side of the road. Work hours will be from 8:30pm until 4:30am, Sunday through Thursday, except for State Holiday. Two through lanes shall be maintained during construction. The Contractor will be permitted to close lanes in either direction. During the rest of the day, all lanes will be open for use.
 - Full closure scenario: During the construction work on H-1 in both the eastbound (Koko Head bound) and westbound (Ewa bound) directions, all travel lanes will be closed in one direction for construction work overnight. There should be no partial or full closures in the opposing direction except for emergency situations. The recommended lane closure hours are permitted from 8:30pm to 4:30am, Sunday through Thursday, except for State Holidays. All lanes are to be open to traffic by 4:30am. No lane closures shall take place between 4:30am and 8:30pm.
- Cross streets/frontage streets lane closure scenario:

During the construction work on cross streets and frontage roads, only single lane closures, are permitted unless otherwise mentioned. Lane closures are allowed between 9:00am and 3:00pm, Monday through Friday, except on holidays. Work that requires full road closures shall be scheduled to occur on Sundays between 8:00am and 12:00am.



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SIGNATURE: *Myron Okubo* 04/30/22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, INDEX OF STRUCTURAL
DRAWINGS AND ESTIMATED QUANTITIES

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

GENERAL STRUCTURAL NOTES (Cont.):

REINFORCING STEEL:

1. Reinforcing splices shall be made only where indicated on the drawings.
2. All reinforcing bars, anchor bolts, dowels and other embedded items are to be securely tied in place before concrete pour.
3. All reinforcing bar bends shall be made cold.
4. Reinforcement shall be detailed in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017, including subsequent interim revisions, unless otherwise noted.
5. Welding of reinforcing steel is Not permitted, unless otherwise shown on the drawings. Welding of reinforcing steel shall conform to (the latest edition of AWS D1.4 "AWS Structural Welding Code-Reinforcing Steel" of the American Welding Society. Deformed reinforcing bars to be welded shall conform to ASTM. A706, Grade 60.
6. Unless otherwise noted, the covering measured from the surface of the concrete to the face of any reinforcing bars shall be as follows:
- (a) Deck top bars 2 1/2" clear
- (b) Deck bottom bars. 1 1/2" clear
- (c) Railing and parapets. 2" clear
- (d) Formed surfaces exposed to earth and weather. 2" clear
- (e) All others. 2" clear
7. Minimum clear spacing between parallel bars shall be 1 1/2 times the diameter of the bar, but in no case shall the clear distance between parallel bars be less than 1 1/2 times the maximum size of the coarse aggregate, or 1 1/2 inches.
8. All dimensions relating to reinforcing bars (e.g. spacing of bars, etc.) are to center of bars, unless otherwise noted.
9. Reinforcing bars shall be securely tied at all intersections and lap spliced except where the spacing of the intersections is less than 12 inches in each direction, in which case alternate intersections shall be tied.

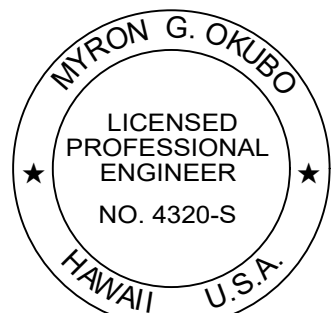
STRUCTURAL STEEL AND MISCELLANEOUS METAL:

1. All steel tubes shall conform to ASTM A500, Grade B. All structural pipes shall conform to ASTM A53, Grade B. Plates and rods shall conform to ASTM A36.
2. All structural steel and miscellaneous metal and rods shall be hot dip galvanized after fabrication. All holes (other than stainless steel) shall be punched before galvanizing.
3. All anchor bolts and threaded rods and other hardware including nuts and washers which connect steel to concrete shall conform to ASTM F1554, Grade 55, hot dipped galvanized.
4. Thru bolts for guardrail connections shall conform to ASTM A325, galvanized unless otherwise noted.
5. All welds shall be in conformance with the structural welding code AWS D1.1-2000 of the American Welding Society. Electrodes for A36, A500 and A992 shall be E70.
6. All stainless steel plates, bars, rods, anchor bolts and shapes shall be Type 316. Welding of stainless steel shall be in accordance with the latest edition of AWS D1.6 "Structural Welding Code - Stainless Steel".
7. Stainless steel threaded rods and nuts shall conform to ASTM A276, Type 316L.

ABBREVIATIONS:

A	Abutment	R	Radius
Ave.	Avenue	Reinf.	Reinforced, Reinforcement
Az.	Azimuth	RENO.	Renovation
B		S	
Bot.	Bottom	S.	South
B.L.	Base Line	SF	Square Feet
C		Sim.	Similar
C.L.	Centerline	Sp.	Span
Clr.	Clear	SR	Spall Repair
Conc.	Concrete	Sta.	Station
Cont.	Continue	Std.	Standard
CR	Crack Repair	St.	Street
D		T	
Det.	Detail	T.F.	Top Face
DEMO.	Demolition	Thk.	Thick
Dia.	Diameter	Typ.	Typical
E		U	
Ea.	Each	U.O.N.	Unless Otherwise Noted
E.F.	Each Face	V	
Exist.	Existing	Vert.	Vertical
(E)	Existing		
O			
O.C.	On Center		
F			
F.A.	Force Account		
FT.	Feet		
G			
Galv.	Galvanized		
H			
Horiz.	Horizontal		
I			
I.D.	Inside Face		
I.T.F.	Inside Top Face		
L			
LF	Linear Feet		
M			
Max.	Maximum		
Min.	Minimum		
MP	Milepost		

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	279	304



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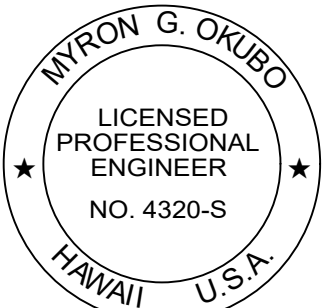
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND ABBREVIATIONS
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SG-2 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)	2021	280	304

GENERAL NOTES:

- Both spalls and delaminations are called out as "Spalls" on the plans, no distinction is made since repair is the same. Size shown on plan=WxL.
- Notify the Engineer when reinforcing steel requires replacement.
- Replace corroded reinforcing steel per sheet SG-4. Corroded reinforcing bars are those after cleaning, have the bar diameter reduced to less than the allowable bar size chart shown on sheet SG-4.
- Remove and replace corroded reinforcing bar with new reinforcing bar matching the original bar size with contact lap splice length equal to 48 bar diameters for main reinforcing bars or 24 bar diameters for temperature bar, or with alternate lap weld splice length per detail B on sheet SG-4.
- The repair length or width should equal to twice the splice length plus 2" minimum on each side of the corroded length of reinforcing bar.
- The Contractor shall confirm the damaged areas of the bridge decks shown on the plans by visual examination and sounding methods in accordance with ASTM D4580. The roadway plans shall be used as a guide to illustrate the general location of the area to be repaired. Mark the limits of decking to be repaired for approval by the Engineer. The Engineer may direct the Contractor to do additional repairs outside of the marked priority areas.
- Removal of damaged concrete and preparation of concrete to receive repair materials is incidental to the various repairs.
- Repair material and procedures shall be accepted by the Engineer before use.
- The Contractor shall protect the public and environment from dust pollution and other damages resulting from the blasting, chipping and drilling operation. The Contractor shall be aware of and follow all State, Federal and county environmental regulations and provide containment to prevent abrasives, dust and debris from dispersing into surrounding areas and into the stream or stream bank. The Contractor shall submit the method of containing and controlling pollution for acceptance to the Engineer.



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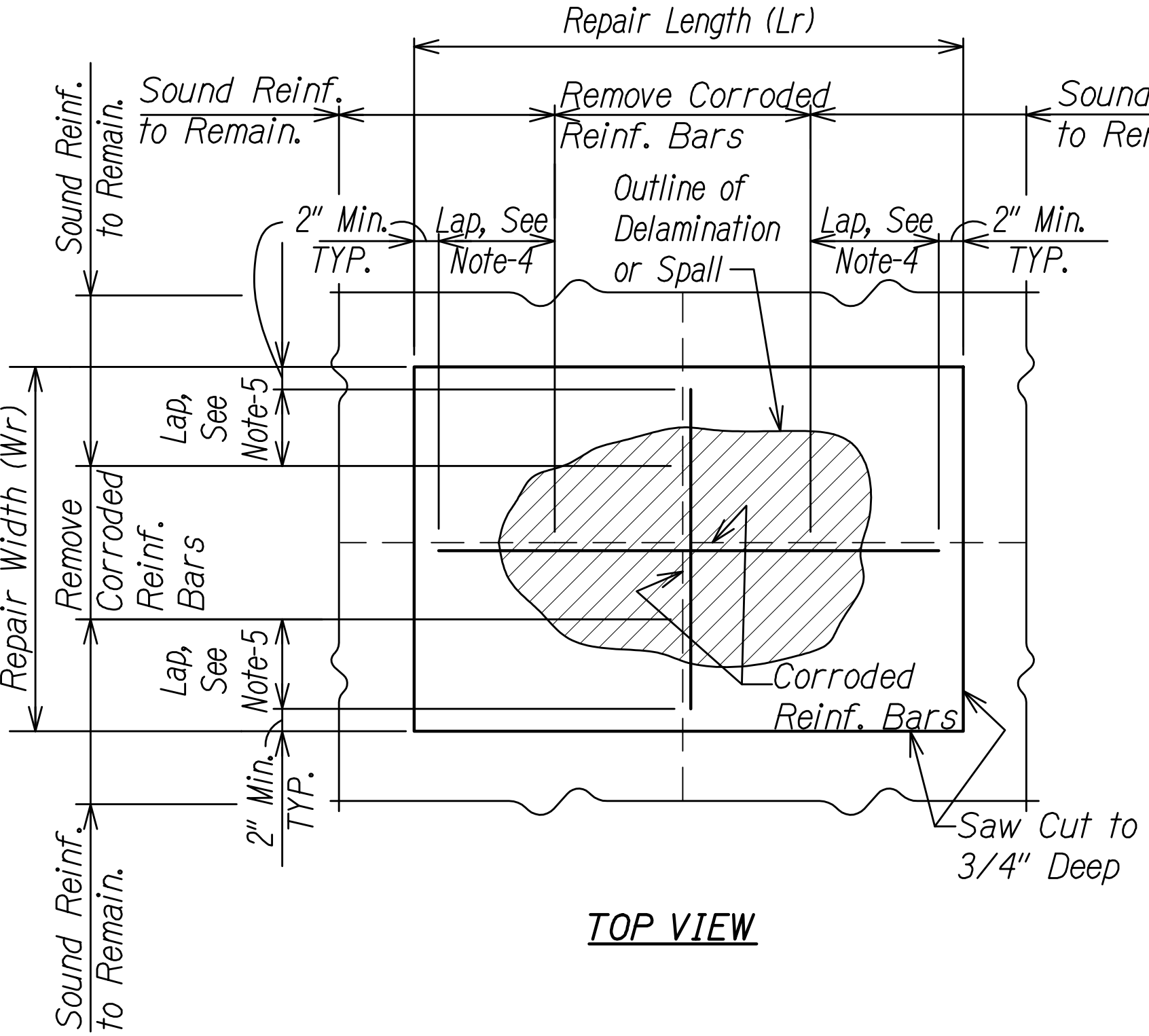
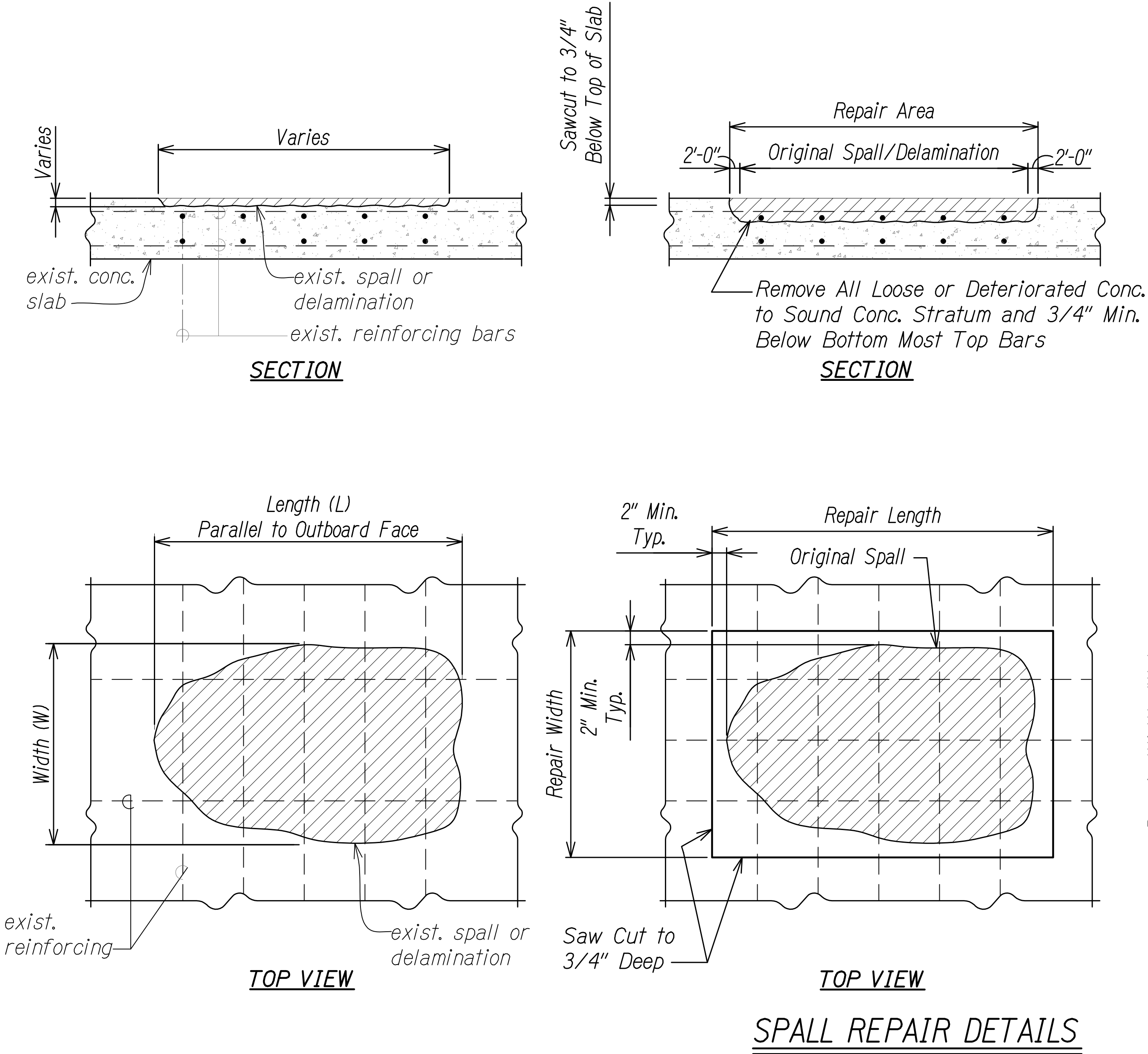
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REPAIR DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-HI-1(279)

Scale: AS NOTED Date: August 2021

SHEET No. SG-3 OF 27 SHEETS



REPAIR NOTES:

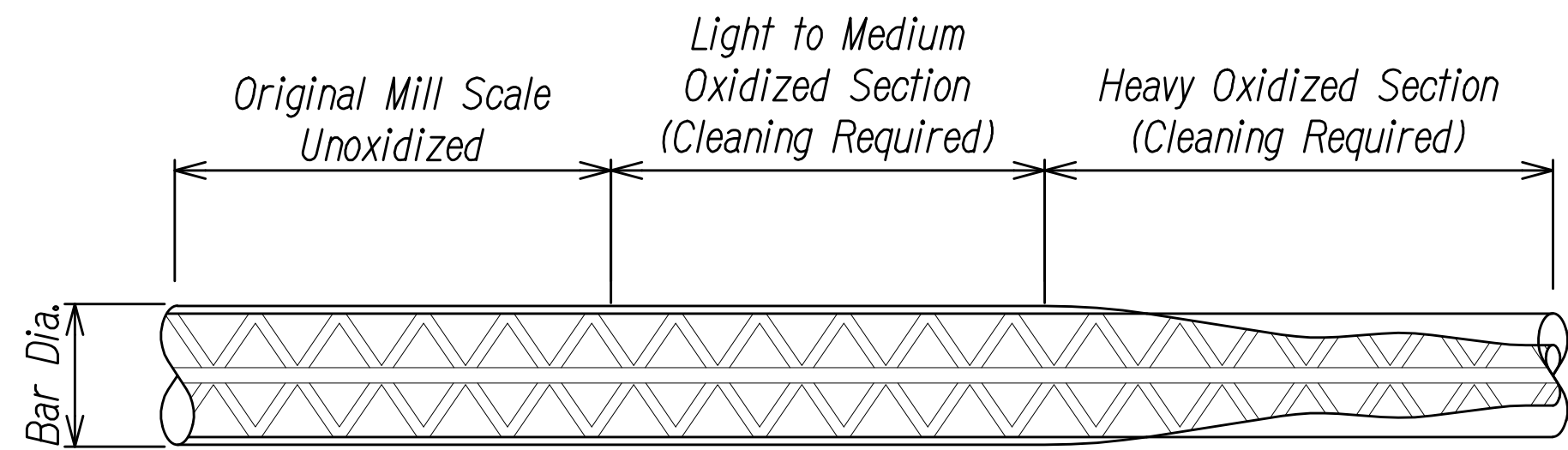
- The Contractor shall be aware of extensive repair requirements in Section 676 Concrete Repair of the Special Provisions for Viaduct concrete deck repair.
- The Contractor shall be aware of extensive repair requirements in Section 512 Concrete Rehabilitation of the Special Provisions for the rehabilitation of damaged or deteriorated structural concrete for the surface of bridge railings, sidewalks, and surfaces indicated.

NOTES:

- Cracks may be horizontal, vertical or overhead.
- Epoxy mortars and epoxy compounds shall conform to ASTM C881/C881M, Type IV, Class C, Grade 1 or 3. Surface shall be free of standing water, dust, and debris. Follow manufacturer's instructions for application.

TYP. CRACK REPAIR DETAILS

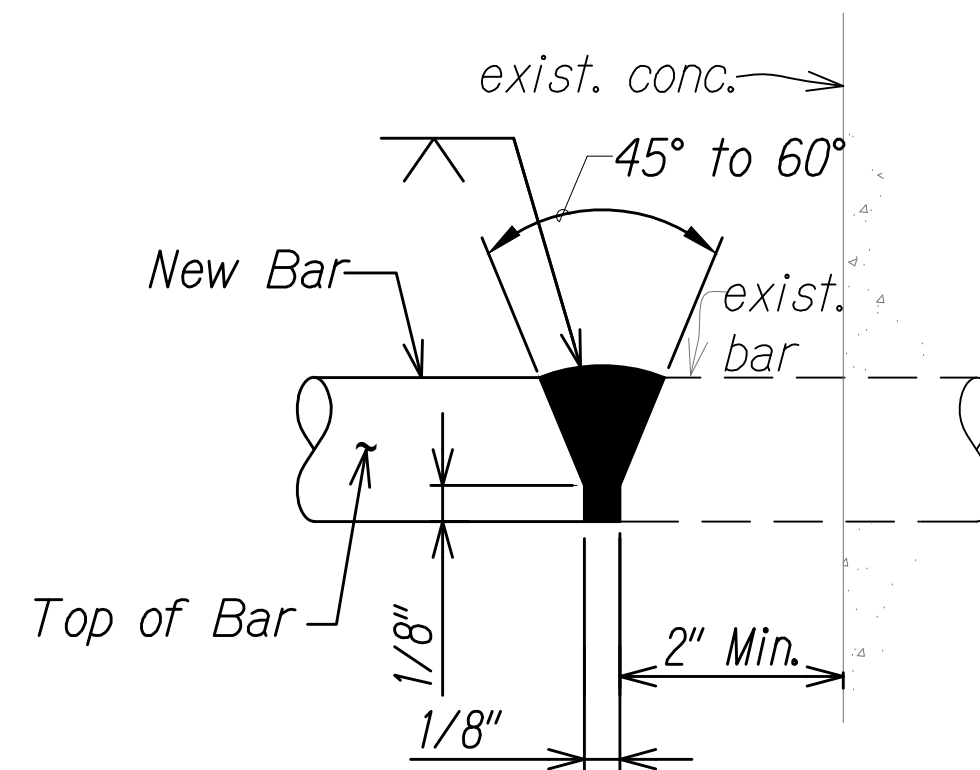
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	281	304



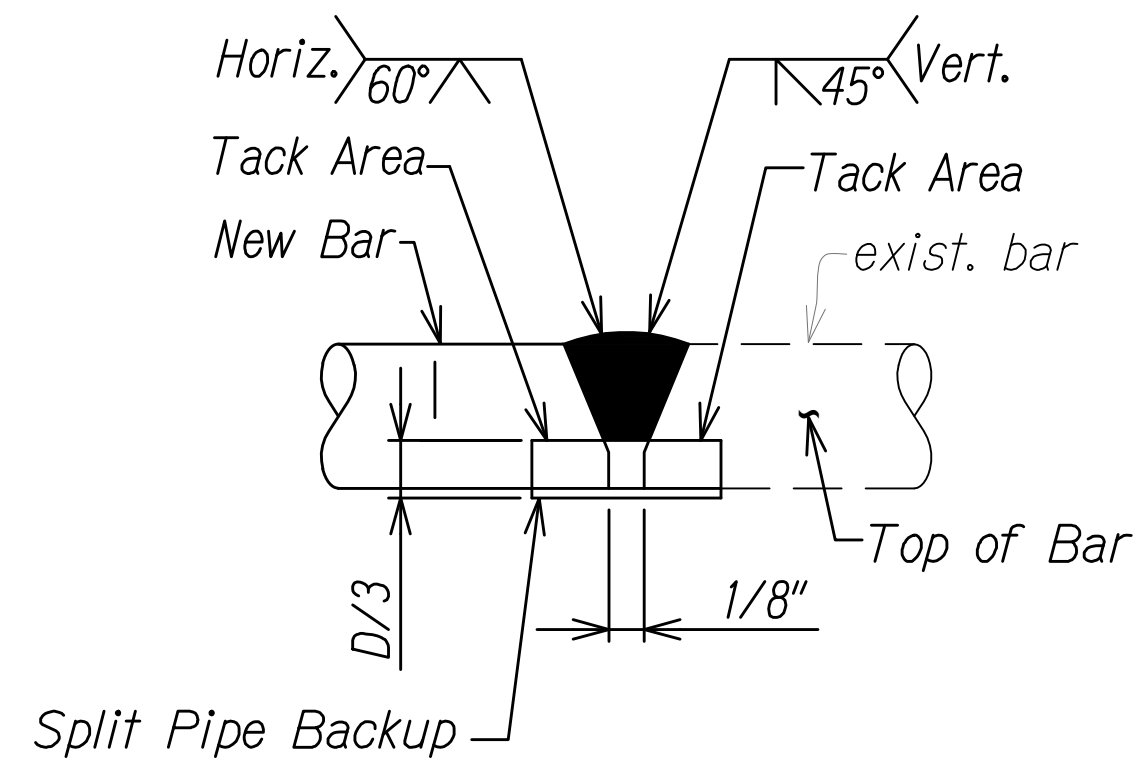
Allowable Bar Size Chart		
Existing Bar Size	Bar Size ASTM A615	Minimum Diameter (inch)
3/8"Ø	#3	5/16"Ø
1/2"Ø	#4	7/16"Ø
5/8"Ø	#5	1/2"Ø
3/4"Ø	#6	5/8"Ø
7/8"Ø	#7	3/4"Ø

NOTES:

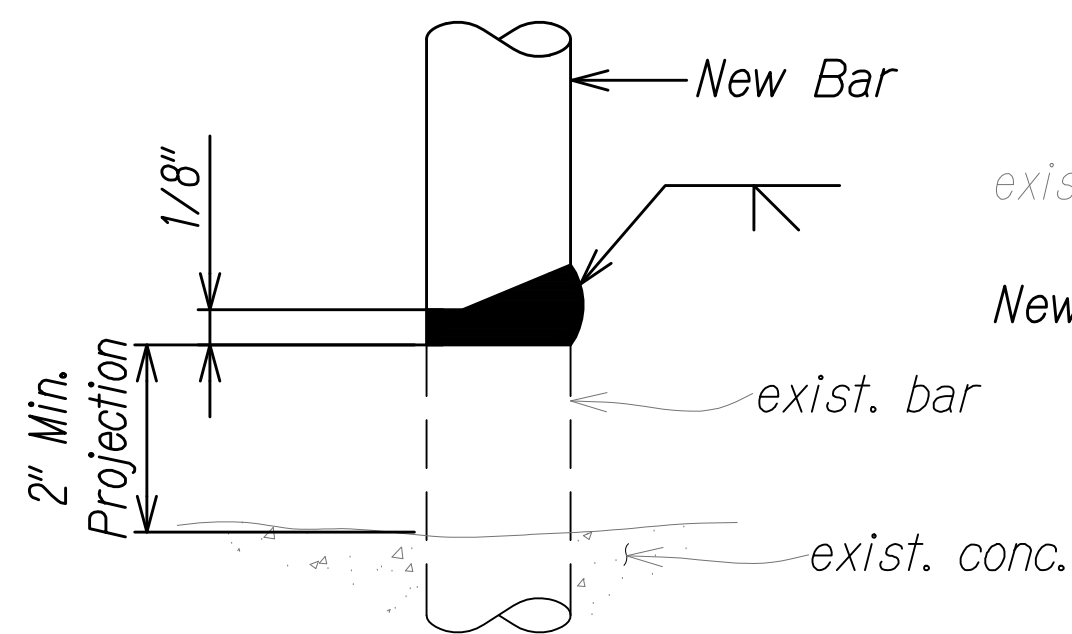
1. Remove all heavy corrosion and scale from reinforcing bars.
2. If reinforcing bar size, after cleaning, is less than the minimum shown in allowable bar size chart, repair by adding additional reinforcing steel.



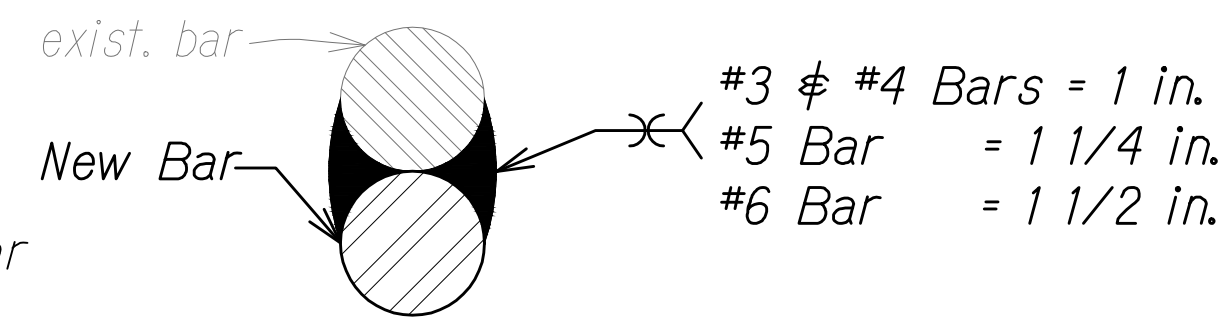
(A) HORIZONTAL



(B) HORIZONTAL AND VERTICAL

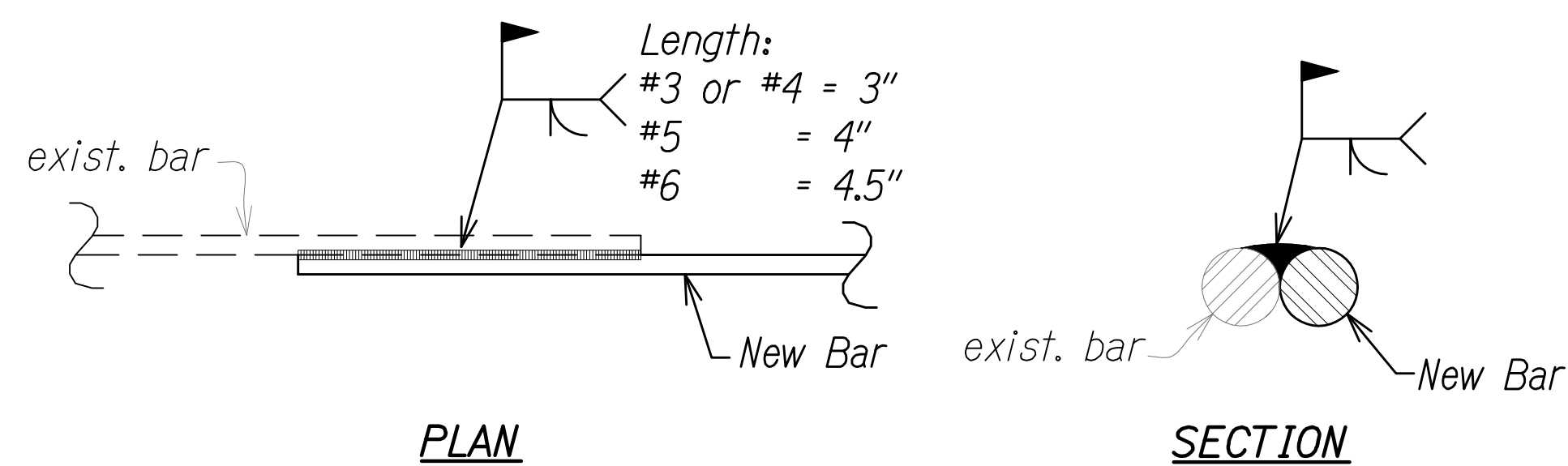


(C) VERTICAL



(D) LAP WELD SPLICE

REPAIR DETAILS



ALTERNATE LAP SPLICE DETAILS

REINFORCING WELDING NOTES:

1. Chip, grind, or gouge to sound metal before welding.
2. Use detail A and C for #9 bar and larger, detail B for #8 bar and smaller, detail D for #6 bar and smaller.
3. Use E70 electrodes for stirrups, E90 electrodes for all others.
4. See AWS D1.4 for welding process preheating, cooling controls, and other details, for welding existing rebar which is not ASTM A706.



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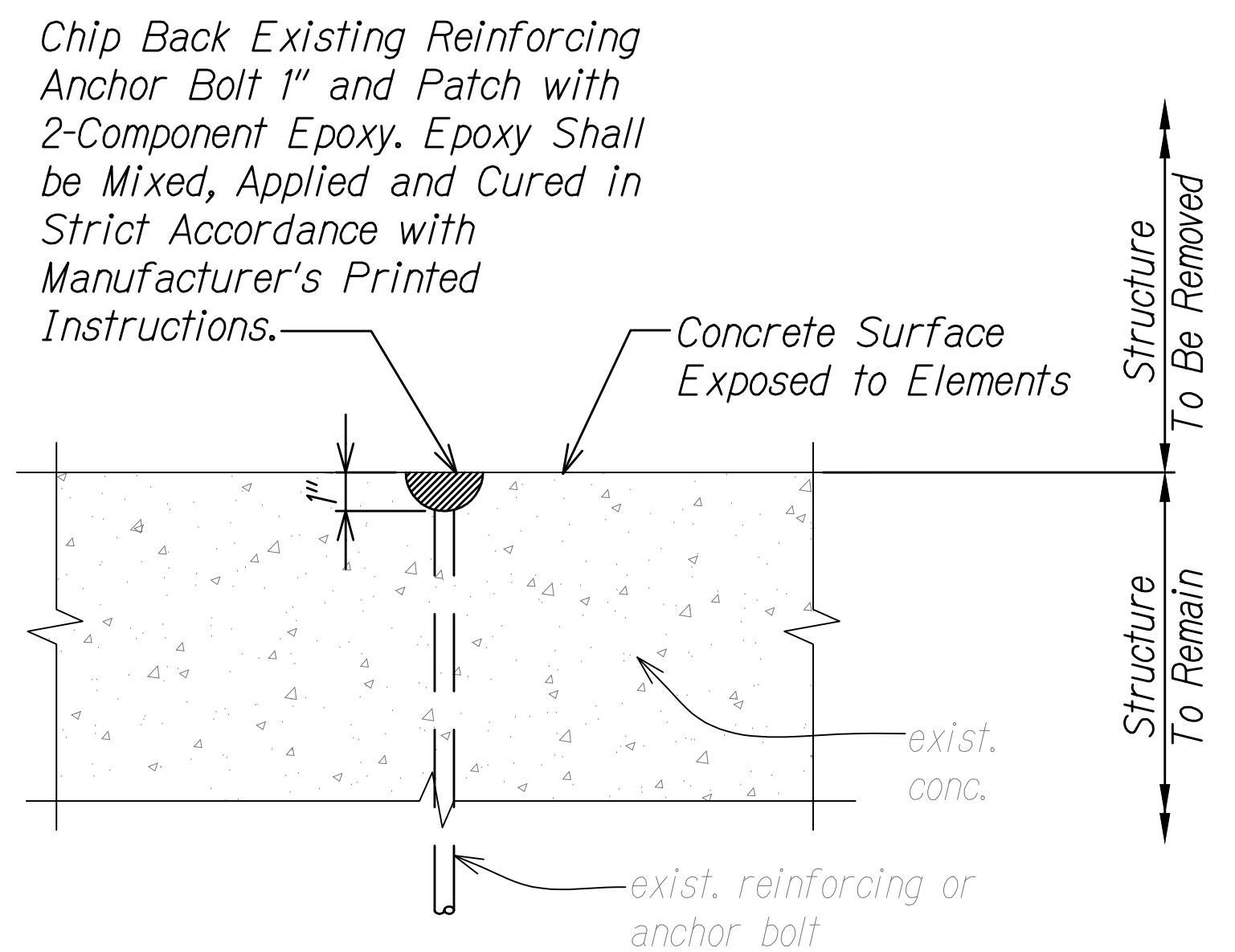
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REPAIR DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

SHEET No. SG-4 OF 27 SHEETS



Chip Back Existing Reinforcing Anchor Bolt 1" and Patch with 2-Component Epoxy. Epoxy Shall be Mixed, Applied and Cured in Strict Accordance with Manufacturer's Printed Instructions.

Patching ends of Reinforcing Steel or Anchor Bolt Shall be Considered Incidental to Concrete.

NOTES:

Demolition of existing members in the way of new construction shall be executed in a manner such to minimize damage to the portions of the members to remain outside the limits of demolition, where not incorporated into new work.

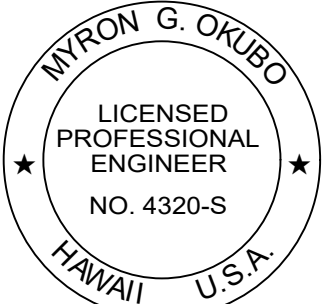
REPAIR DETAILS

BRIDGE SPALL DAMAGE SCHEDULE							
BRIDGE NAME	MARK	SPALL (SF)	REMARKS	BRIDGE NAME		SPALL (SF)	REMARKS
Miller Street Pedestrian Overcrossing	SR-1	27.00	See Sheet SM-1	Piikoi Viaduct	SR-38	300.00	See Sheet SP-1
					SR-39	1.00	See Sheet SP-1
					SR-40	0.75	See Sheet SP-1
Ward Avenue Overpass	SR-2	0.50	See Sheet SW-1		SR-41	2.00	See Sheet SP-1
	SR-3	0.25	See Sheet SW-1		SR-42	12.00	See Sheet SP-1
	SR-4	1.25	See Sheet SW-1		SR-43	30.00	See Sheet SP-1
	SR-5	0.25	See Sheet SW-1		SR-44	1.00	See Sheet SP-1
	SR-6	0.50	See Sheet SW-1		SR-45	4.00	See Sheet SP-1
	SR-7	0.50	See Sheet SW-1		SR-46	1.00	See Sheet SP-1
					SR-47	2.00	See Sheet SP-1
Piikoi Viaduct	SR-8	13.75	See Sheet SP-1		SR-48	0.25	See Sheet SP-1
	SR-9	25.00	See Sheet SP-1		SR-49	2.00	See Sheet SP-1
	SR-10	2.00	See Sheet SP-1		SR-50	8.00	See Sheet SP-1
	SR-11	1.00	See Sheet SP-1		SR-51	21.00	See Sheet SP-1
	SR-12	4.00	See Sheet SP-1		SR-52	90.00	See Sheet SP-1
	SR-13	1.00	See Sheet SP-1		SR-53	1.25	See Sheet SP-1
	SR-14	2.00	See Sheet SP-1		SR-54	2.00	See Sheet SP-1
	SR-15	1.50	See Sheet SP-1		SR-55	6.00	See Sheet SP-1
	SR-16	1.00	See Sheet SP-1		SR-56	30.00	See Sheet SP-1
	SR-17	2.00	See Sheet SP-1		SR-57	1.00	See Sheet SP-1
	SR-18	2.00	See Sheet SP-1		SR-58	2.00	See Sheet SP-1
	SR-19	1.00	See Sheet SP-1		SR-59	1.00	See Sheet SP-1
	SR-20	1.00	See Sheet SP-1		SR-60	15.00	See Sheet SP-1
	SR-21	0.25	See Sheet SP-1		SR-61	0.75	See Sheet SP-1
	SR-22	2.00	See Sheet SP-1		SR-62	2.00	See Sheet SP-1
	SR-23	1.00	See Sheet SP-1		SR-63	4.00	See Sheet SP-1
	SR-24	18.00	See Sheet SP-1		SR-64	2.00	See Sheet SP-1
	SR-25	0.50	See Sheet SP-1		SR-65	0.25	See Sheet SP-1
	SR-26	3.00	See Sheet SP-1		SR-66	4.00	See Sheet SP-1
	SR-27	4.00	See Sheet SP-1		SR-67	3.00	See Sheet SP-1
	SR-28	2.00	See Sheet SP-1		SR-68	1.00	See Sheet SP-1
	SR-29	4.50	See Sheet SP-1		SR-69	4.00	See Sheet SP-1
	SR-30	7.00	See Sheet SP-1		SR-70	1.00	See Sheet SP-2
	SR-31	100.00	See Sheet SP-1		SR-71	2.00	See Sheet SP-2
	SR-32	0.50	See Sheet SP-1		SR-72	1.00	See Sheet SP-2
	SR-33	3.00	See Sheet SP-1		SR-73	1.00	See Sheet SP-2
	SR-34	6.00	See Sheet SP-1		SR-74	3.00	See Sheet SP-2
	SR-35	0.50	See Sheet SP-1				
	SR-36	0.50	See Sheet SP-1				
	SR-37	7.00	See Sheet SP-1				

BRIDGE SPALL DAMAGE SCHEDULE							
BRIDGE NAME		SPALL (SF)	REMARKS	BRIDGE NAME		SPALL (SF)	REMARKS
Piikoi Viaduct	SR-75	7.00	See Sheet SP-2	Keeaumoku Street Overpass	SR-112	2.00	See Sheet SKE-1
	SR-76	35.00	See Sheet SP-2		SR-113	2.00	See Sheet SKE-1
	SR-77	0.25	See Sheet SP-2		SR-114	2.00	See Sheet SKE-1
	SR-78	1.50	See Sheet SP-2		SR-115	2.00	See Sheet SKE-1
	SR-79	1.00	See Sheet SP-2		SR-116	2.00	See Sheet SKE-1
	SR-80	1.00	See Sheet SP-2		SR-117	2.00	See Sheet SKE-1
	SR-81	1.00	See Sheet SP-2	McCully Street Overpass	SR-118	1.00	See Sheet SMC-1
	SR-82	1.00	See Sheet SP-2		SR-119	1.00	See Sheet SMC-1
	SR-83	1.00	See Sheet SP-2		SR-120	1.50	See Sheet SMC-1
	SR-84	1.00	See Sheet SP-2		SR-121	1.50	See Sheet SMC-1
	SR-85	1.50	See Sheet SP-2		SR-122	4.00	See Sheet SMC-1
	SR-86	2.00	See Sheet SP-2		SR-123	1.00	See Sheet SMC-1
	SR-87	1.00	See Sheet SP-2		SR-124	1.00	See Sheet SMC-1
	SR-88	2.00	See Sheet SP-2		SR-125	1.50	See Sheet SMC-1
	SR-89	0.25	See Sheet SP-2		SR-126	1.00	See Sheet SMC-1
	SR-90	2.00	See Sheet SP-2		SR-127	8.00	See Sheet SMC-1
	SR-91	1.00	See Sheet SP-2		SR-128	1.00	See Sheet SMC-1
	SR-92	1.00	See Sheet SP-2		SR-129	4.00	See Sheet SMC-1
	SR-93	2.25	See Sheet SP-2		SR-130	8.00	See Sheet SMC-1
	SR-94	1.00	See Sheet SP-2		SR-131	15.00	See Sheet SMC-1
	SR-95	0.25	See Sheet SP-2		SR-132	1.00	See Sheet SMC-1
	SR-96	1.00	See Sheet SP-2		SR-133	1.00	See Sheet SMC-1
	SR-97	0.25	See Sheet SP-2		SR-134	1.00	See Sheet SMC-1
	SR-98	0.25	See Sheet SP-2		SR-135	1.00	See Sheet SMC-1
	SR-99	0.50	See Sheet SP-2		SR-136	1.50	See Sheet SMC-1
	SR-100	0.25	See Sheet SP-2		SR-137	1.50	See Sheet SMC-1
	SR-101	0.25	See Sheet SP-2		SR-138	6.00	See Sheet SMC-1
	SR-102	1.00	See Sheet SP-2		SR-139	1.00	See Sheet SMC-1
	SR-103	0.25	See Sheet SP-2		SR-140	2.00	See Sheet SMC-1
	SR-104	0.75	See Sheet SP-2		SR-141	1.50	See Sheet SMC-1
	SR-105	0.25	See Sheet SP-2		SR-142	1.50	See Sheet SMC-1
	SR-106	0.25	See Sheet SP-2		SR-143	1.00	See Sheet SMC-1
	SR-107	2.00	See Sheet SP-2				
	SR-108	0.25	See Sheet SP-2				
	SR-109	0.50	See Sheet SP-2				
Keeaumoku Street Overpass	SR-110	4.00	See Sheet SKE-1				
	SR-111	4.00	See Sheet SKE-1				

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	282	304

BRIDGE CRACK DAMAGE SCHEDULE			
BRIDGE NAME	MARK	CRACK (FT)	REMARKS
Ward Avenue Overpass	CR-1	24.5	See Sheet SW-1
	CR-2	3.5	See Sheet SW-1
	CR-3	14.0	See Sheet SW-1
	CR-4	7.0	See Sheet SW-1



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HIGHWAYS DIVISION

DAMAGE SCHEDULE

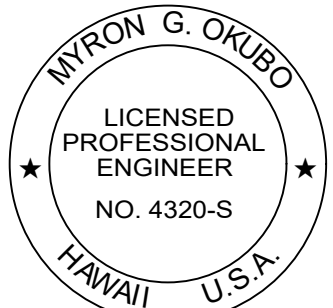
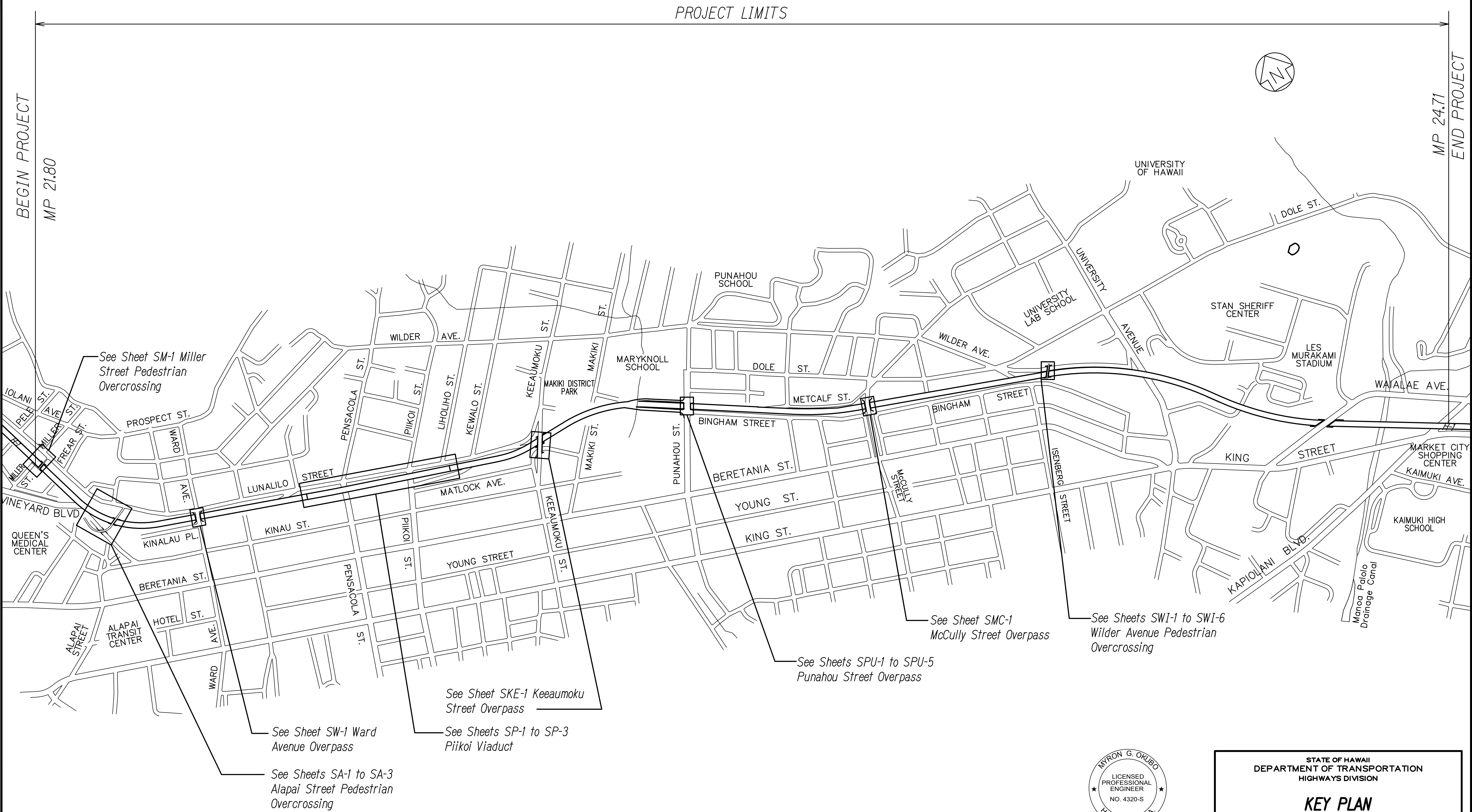
INTERSTATE ROUTE H-1 RESURFACING

Miller Pedestrian Overpass to Kapiolani Interchange

Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	283	304



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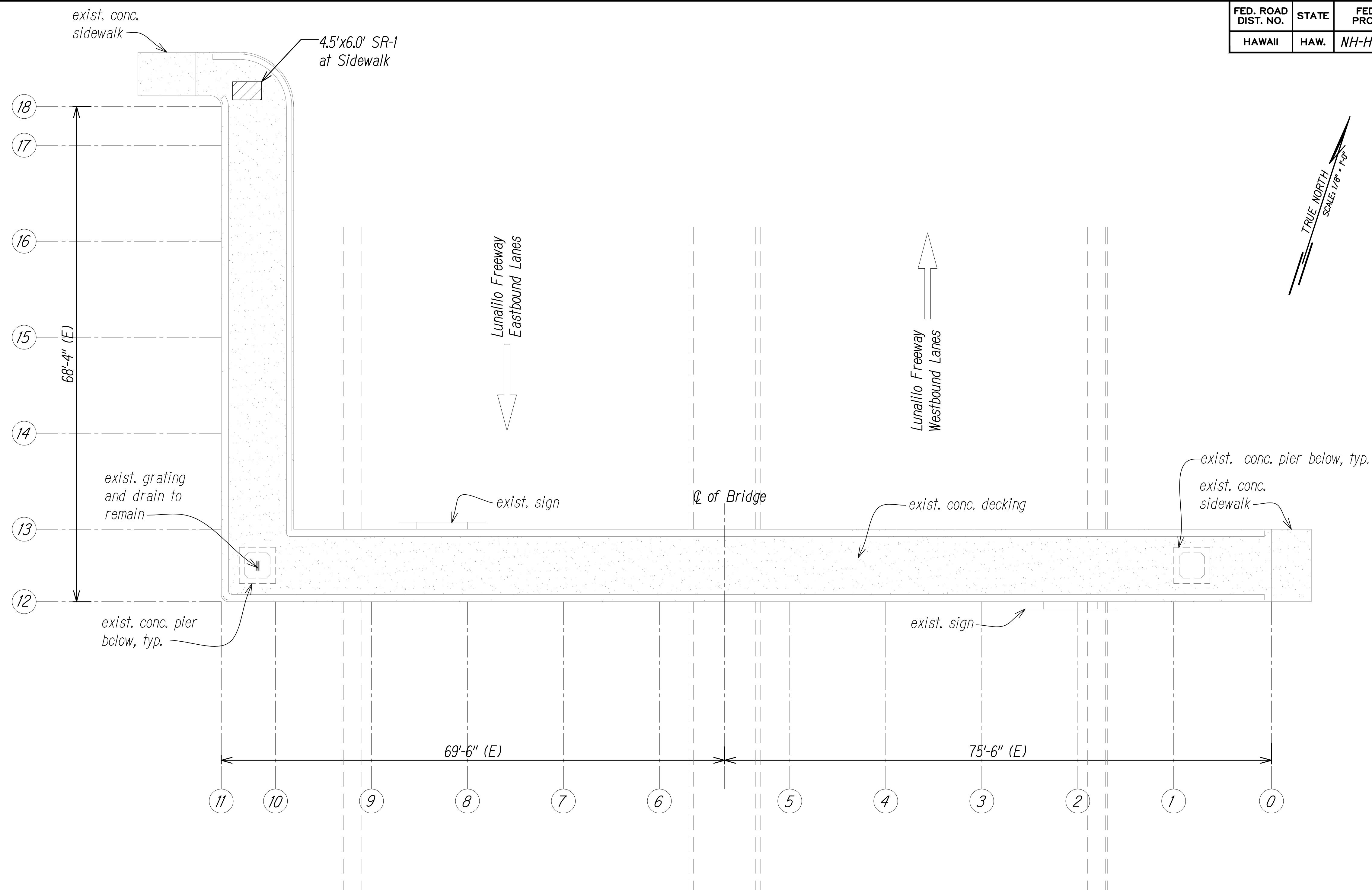
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEY PLAN

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	284	304



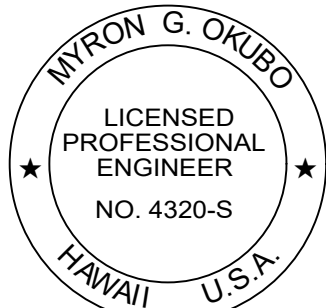
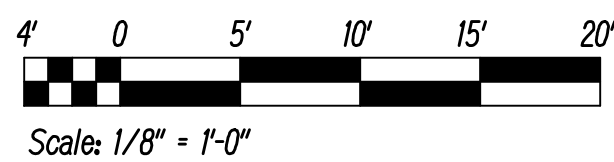
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

OVERCROSSING - PLAN

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

GRAPHIC SCALE:



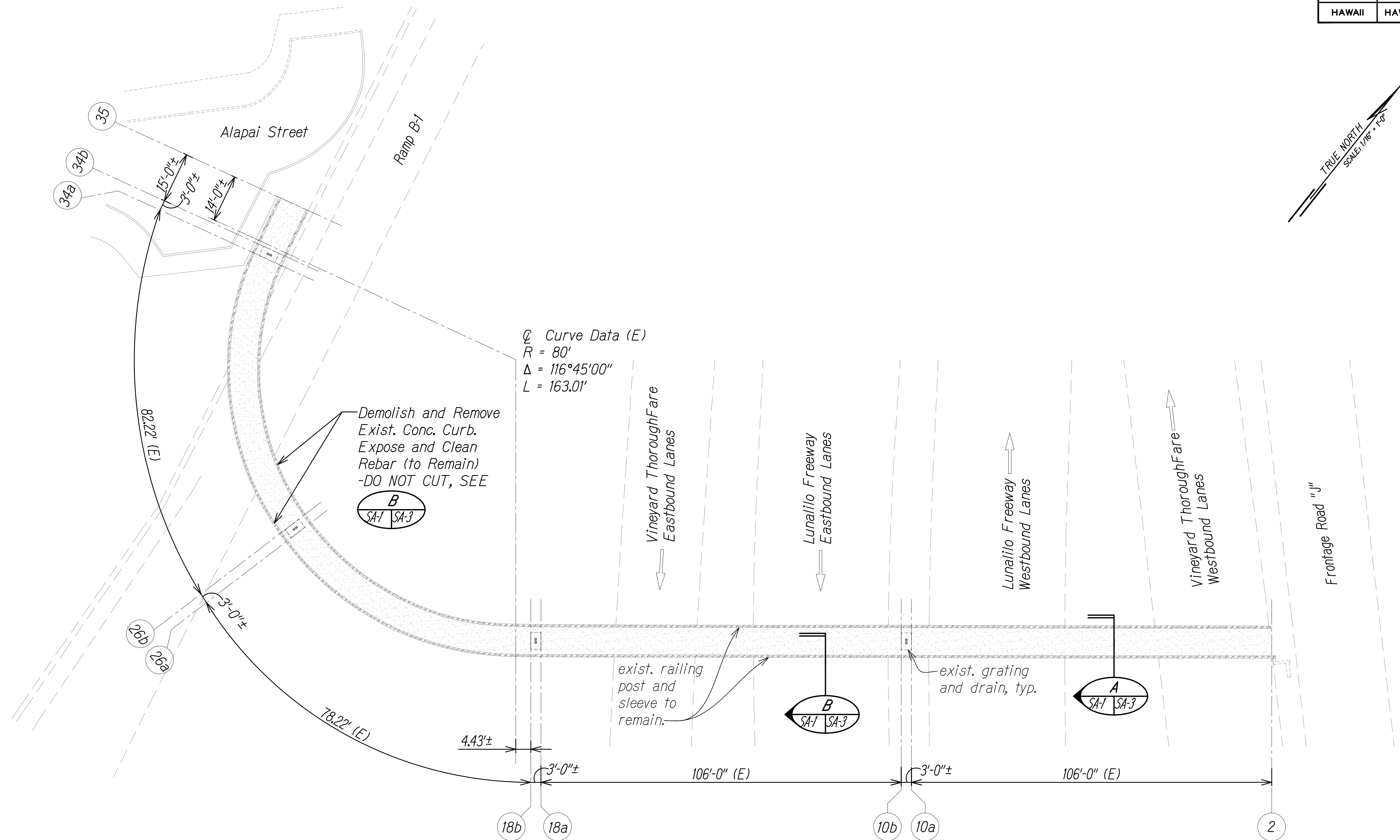
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04/30/22
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**MILLER STREET PEDESTRIAN
OVERCROSSING - PLAN**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	285	304



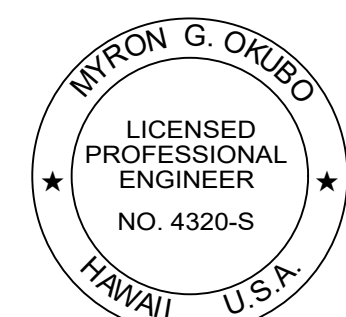
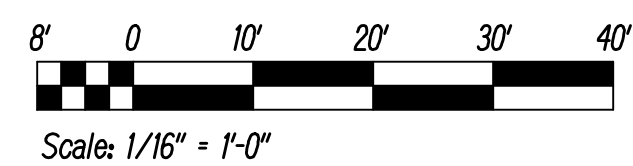
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- See Electrical Drawings for LED Lights and New Conduits Construction.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

DEMOLITION PLAN

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

GRAPHIC SCALE:



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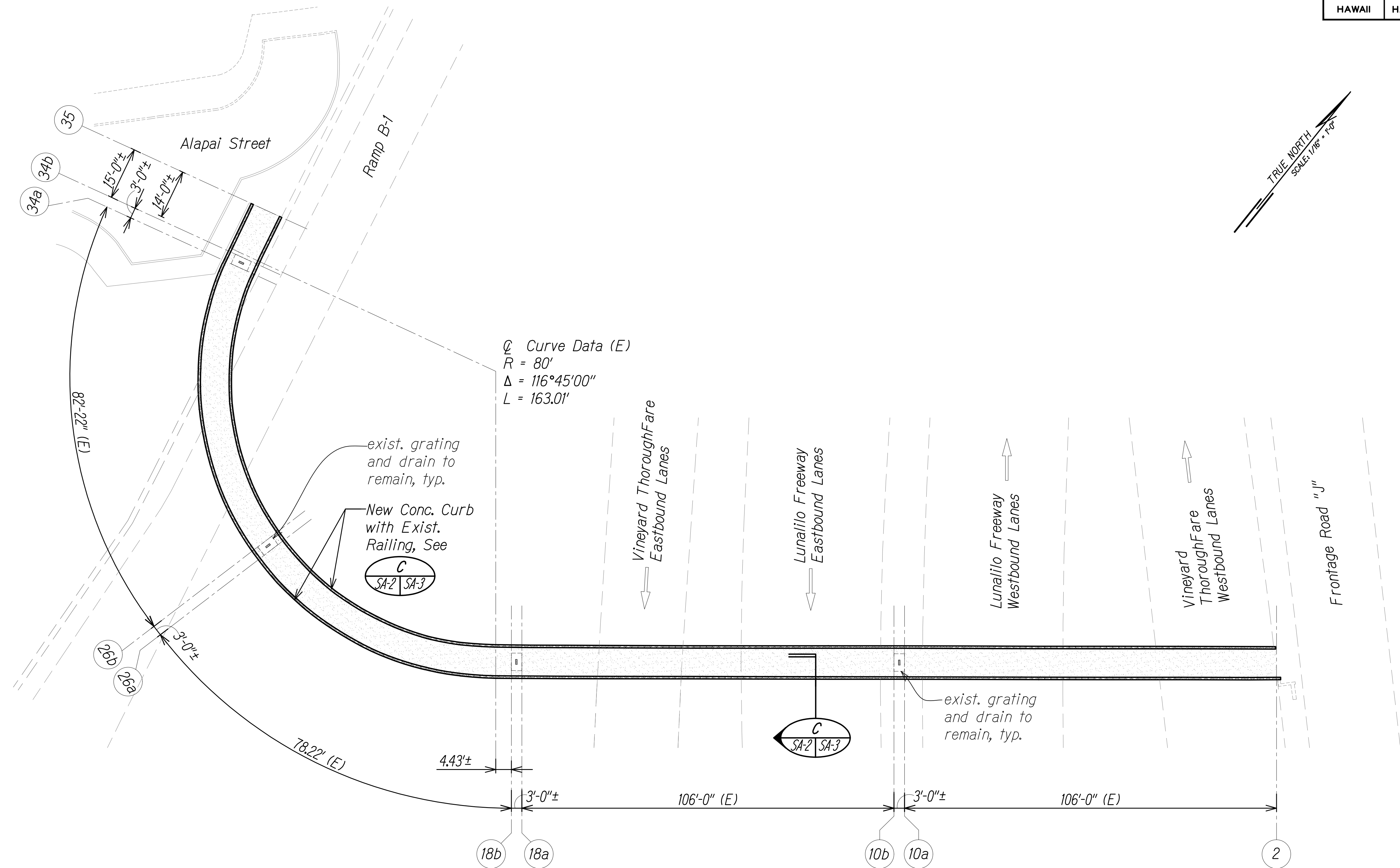
**ALAPAI STREET PEDESTRIAN
OVERCROSSING - DEMOLITION PLAN**

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

SHEET No. SA-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	286	304



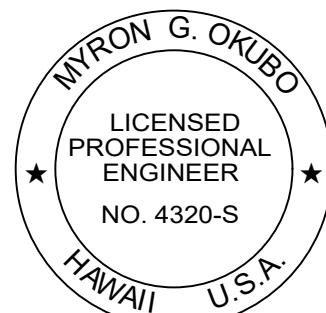
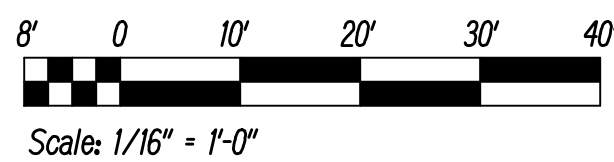
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- See Electrical Drawings for LED Lights and New Conduits Construction.
- Provide Access for Pedestrian, Secure Work Site at End of Day To Provide Protection at Demoed Rails, No work Over Live Traffic, etc

RENOVATION PLAN

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

GRAPHIC SCALE:



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OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

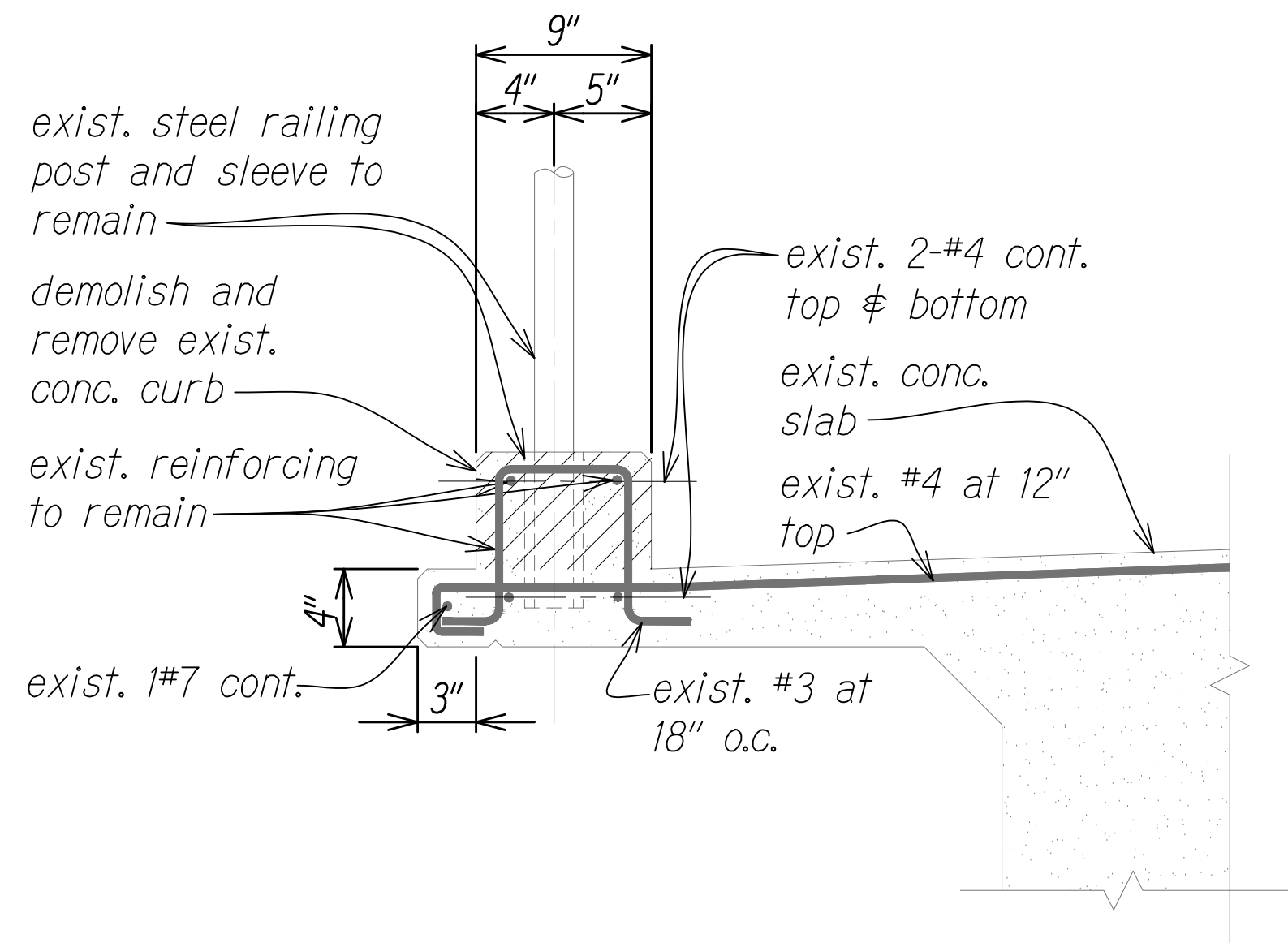
**ALAPAI STREET PEDESTRIAN
OVERCROSSING - RENOVATION PLAN**

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

SHEET No.SA-2 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	287	304



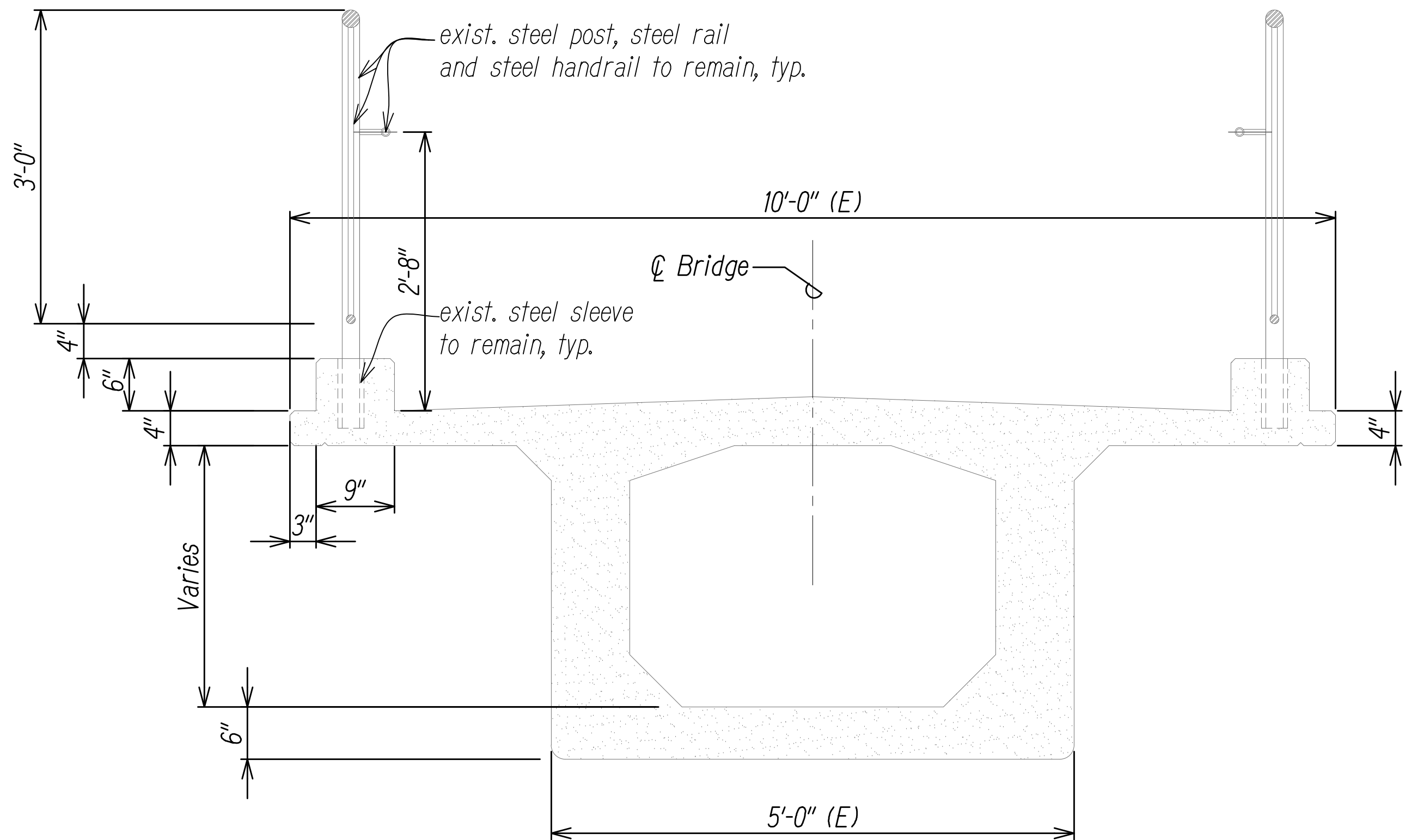
CURB DEMOLITION DETAIL

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

B
SA-1 SA-3

NOTES:

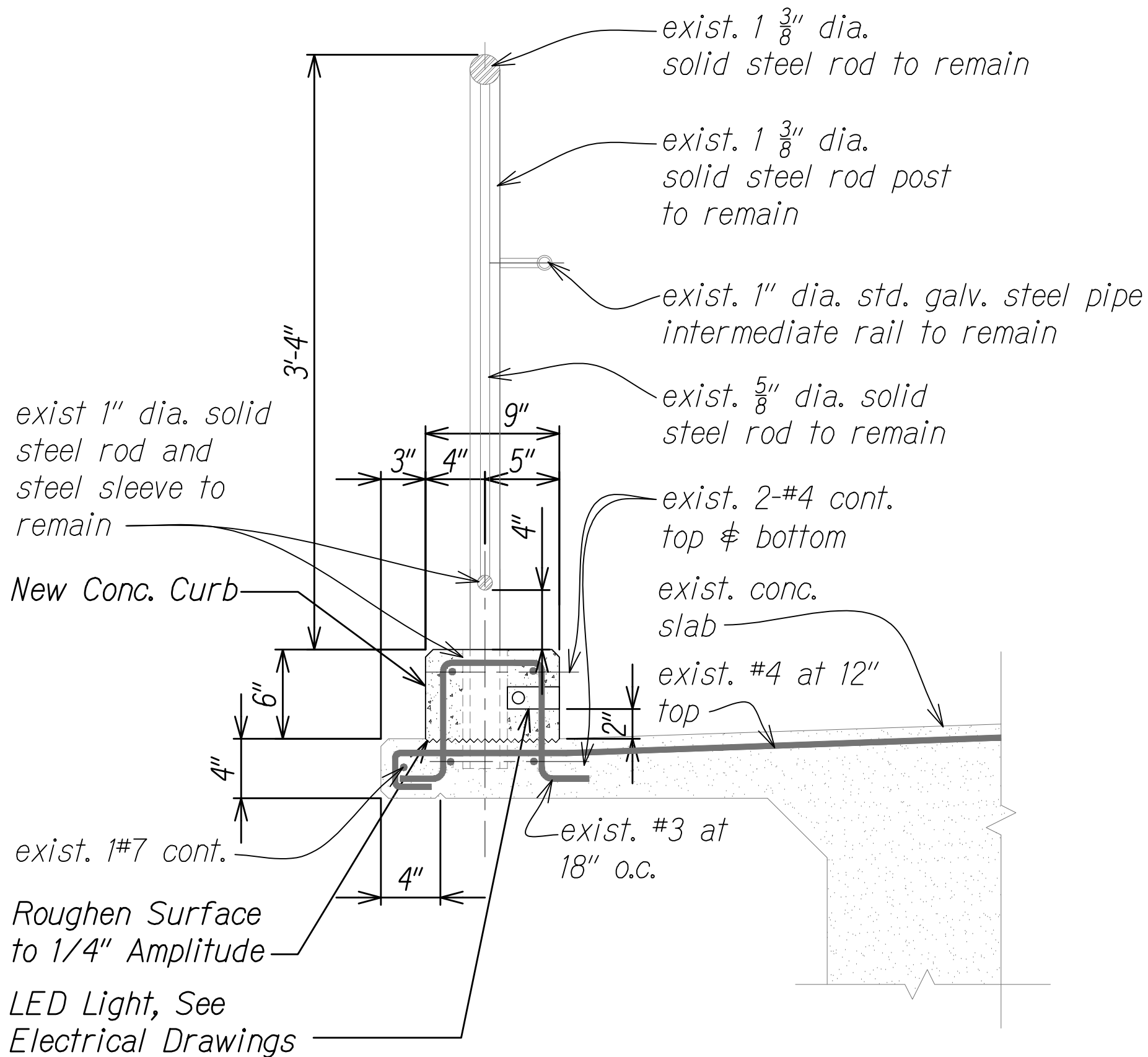
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- See Electrical Drawings for LED Lights and New Conduits Construction.
- Take Precautions so as Not to Damage Existing Reinforcing Steel and Pedestrian Railing. Should the Existing Reinforcing Steel be Damaged Splice New Bar In Accordance with Details on Sheet SG-4 At No Additional Cost to the State. Damages to the Existing Pedestrian Railing should be Repaired or Replaced at no Additional Cost to the State and as Directed by the Engineer.



BRIDGE SECTION

Scale: 1" = 1'-0"

A
SA-1 SA-3



NOTE:

Lap splices shall be 48 bar diameters or 2'-0" whichever is greater if new bar is required, unless otherwise shown.

CURB RENOVATION DETAIL

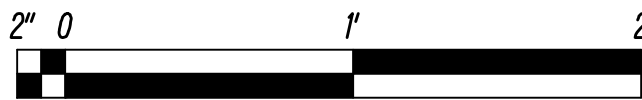
Scale: 1 1/2" = 1'-0"

C
SA-2 SA-3

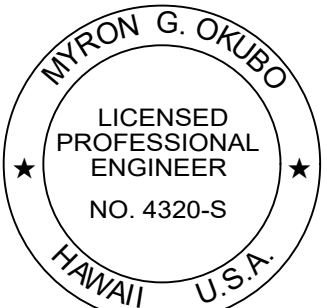
GRAPHIC SCALE:



Scale: 1" = 1'-0"



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



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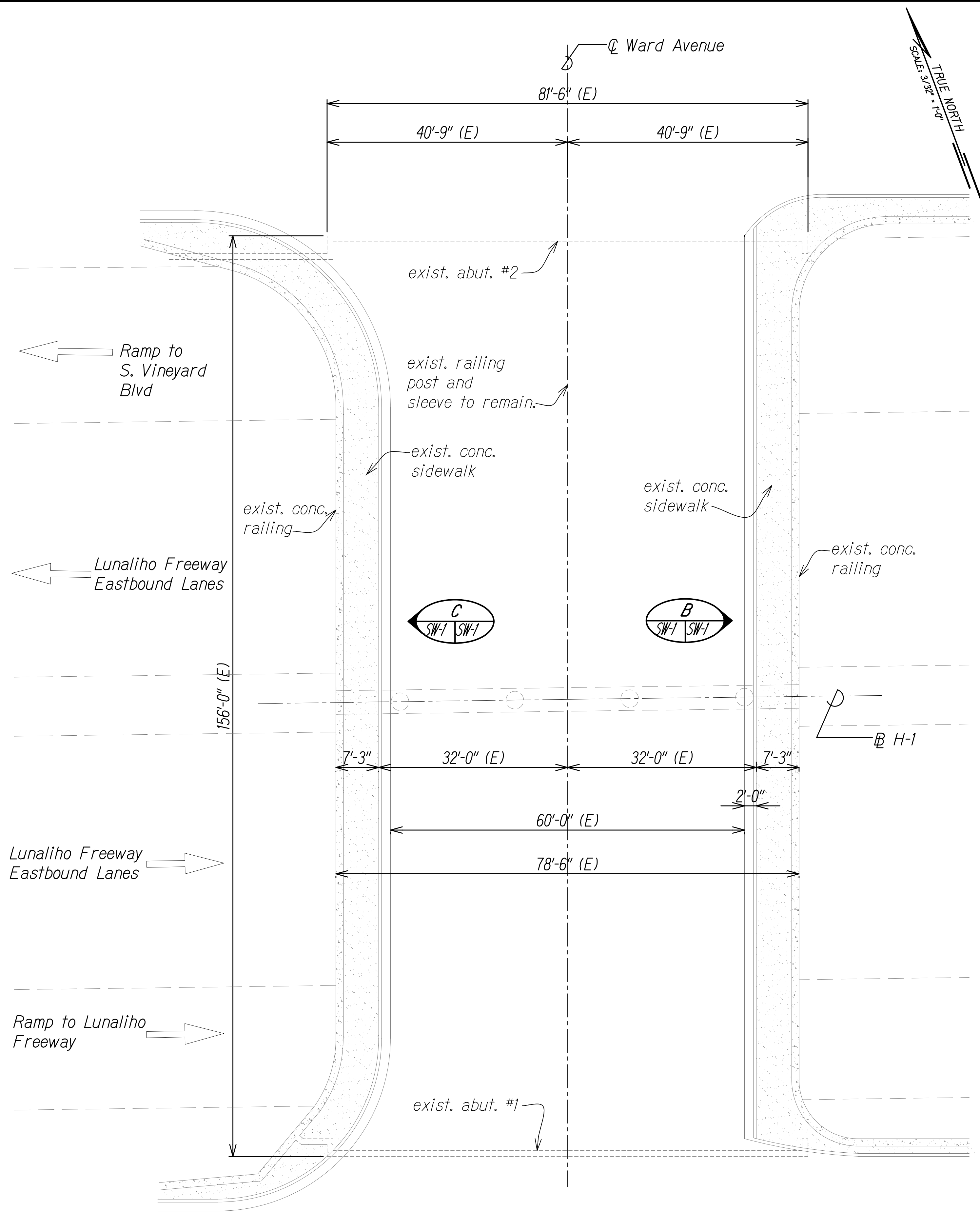
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

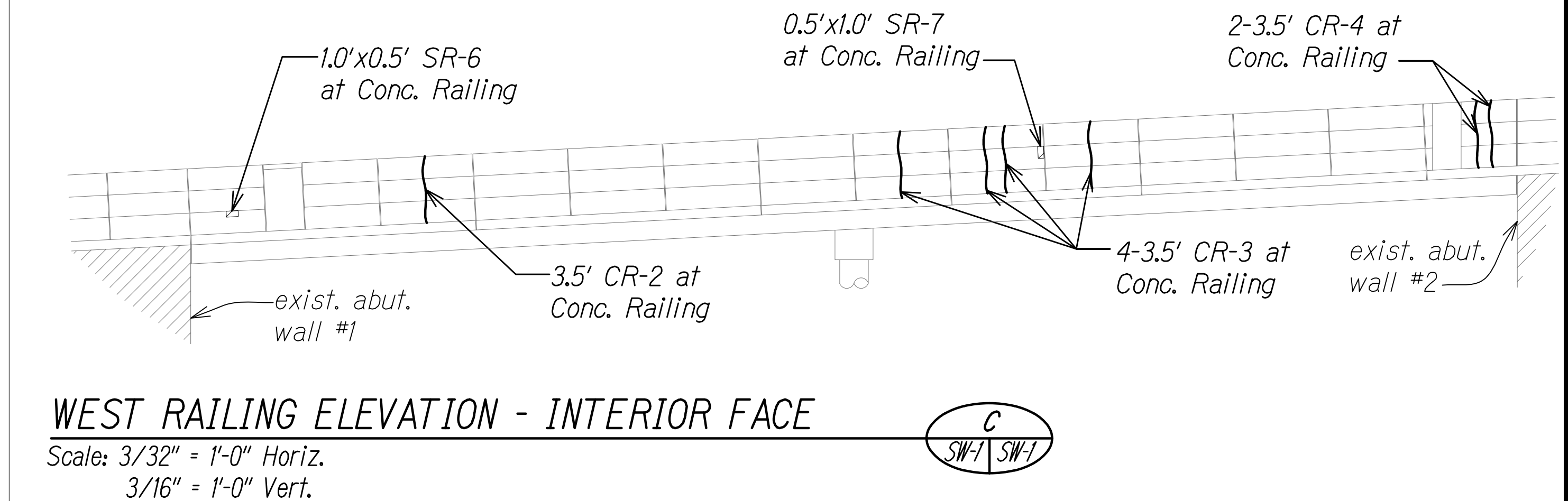
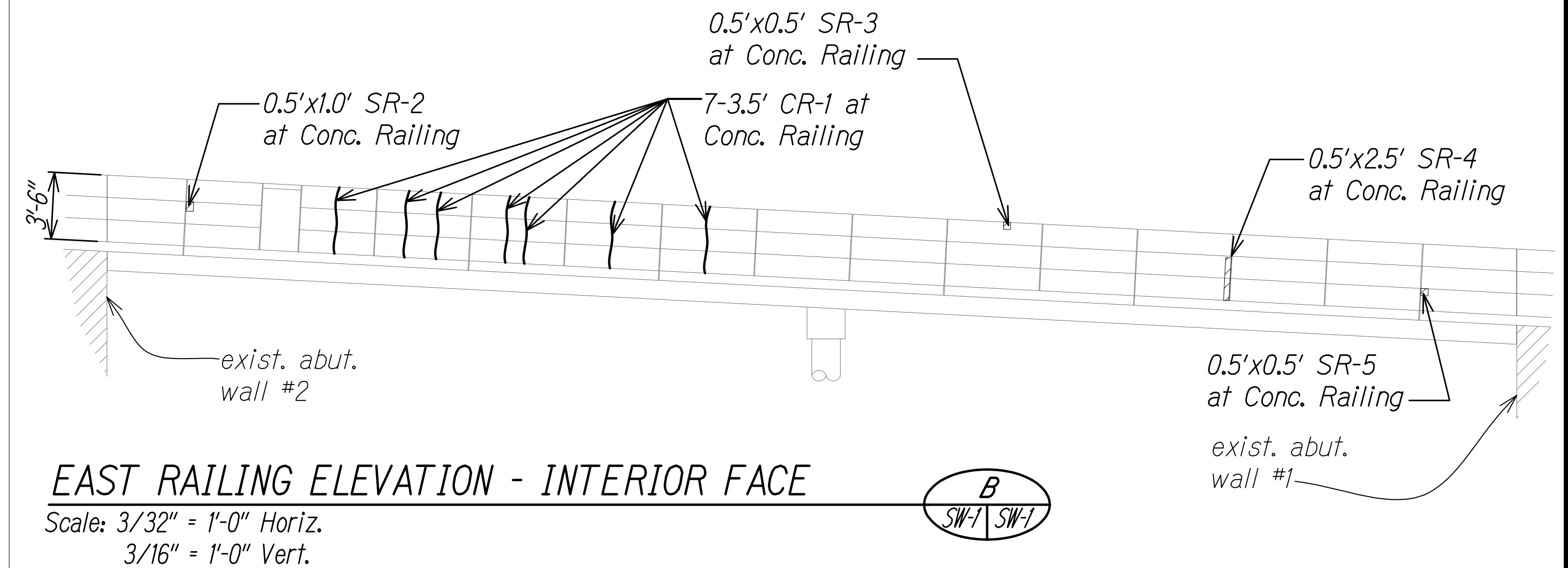
**ALAPAI STREET PEDESTRIAN
OVERCROSSING - DETAILS**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED
Date: August 2021

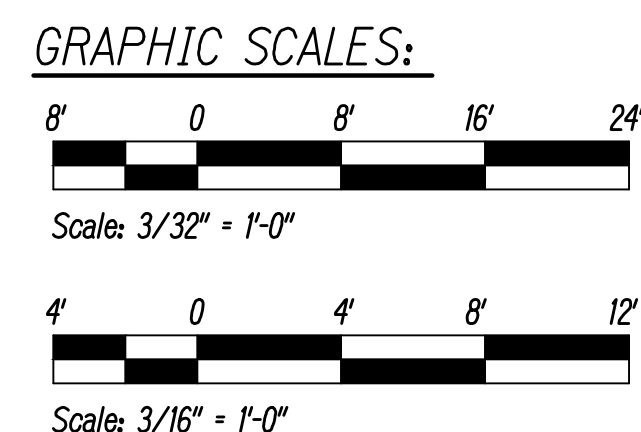
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	288	304



PLAN
Scale: 3/32" = 1'-0"



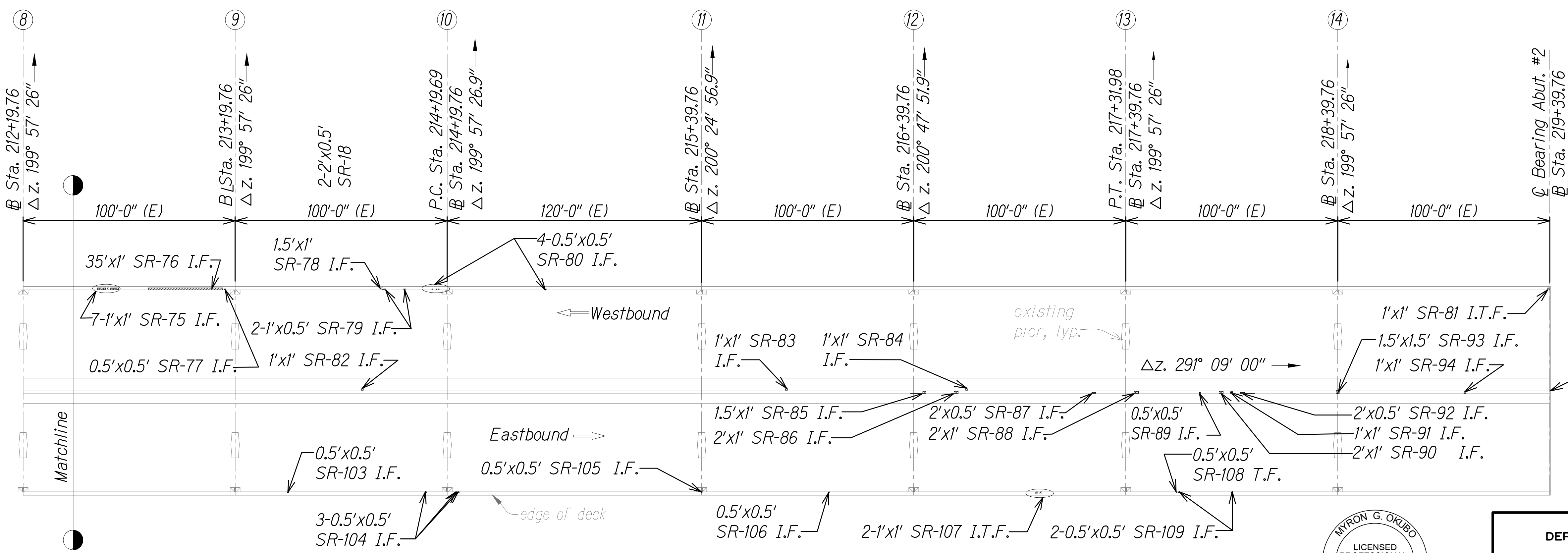
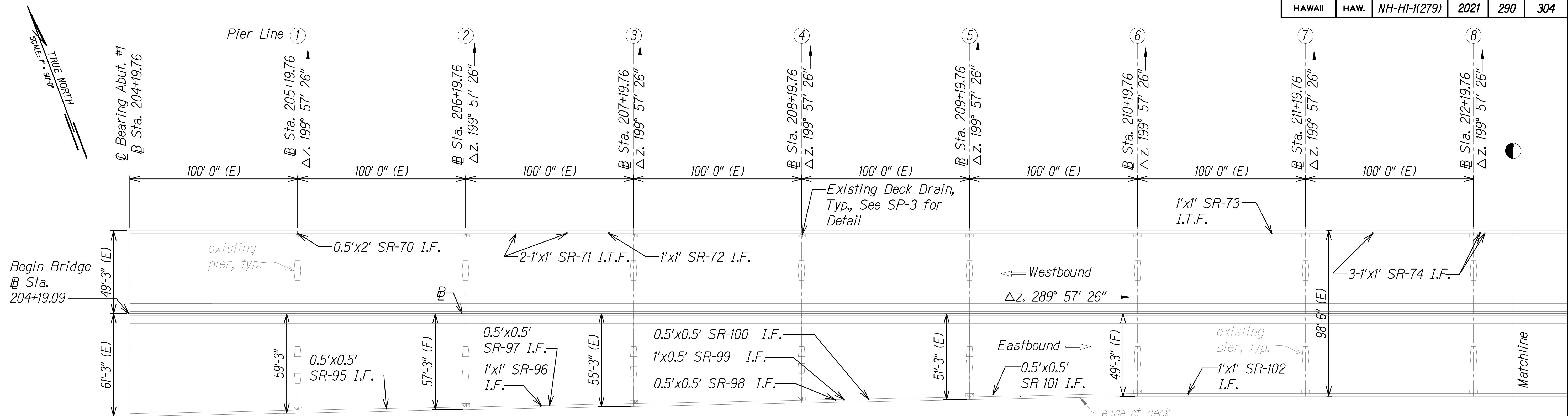
- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
 - CR-1, CR-2, etc. Denotes Concrete Crack Repair. See Sheet SG-3.
 - SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
 - Provide Access for Pedestrian, Secure Work Site at End of Day To Provide Protection at Demoed Rails, No work Over Live Traffic, etc



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OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WARD AVENUE OVERPASS
PLAN AND RAILING ELEVATIONS
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SW-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	290	304



- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
 - SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
 - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

VIADUCT PLAN
Scale: 1" = 30'



MYRON G. OKUBO
LICENSED PROFESSIONAL ENGINEER
NO. 4320-S
HAWAII U.S.A.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

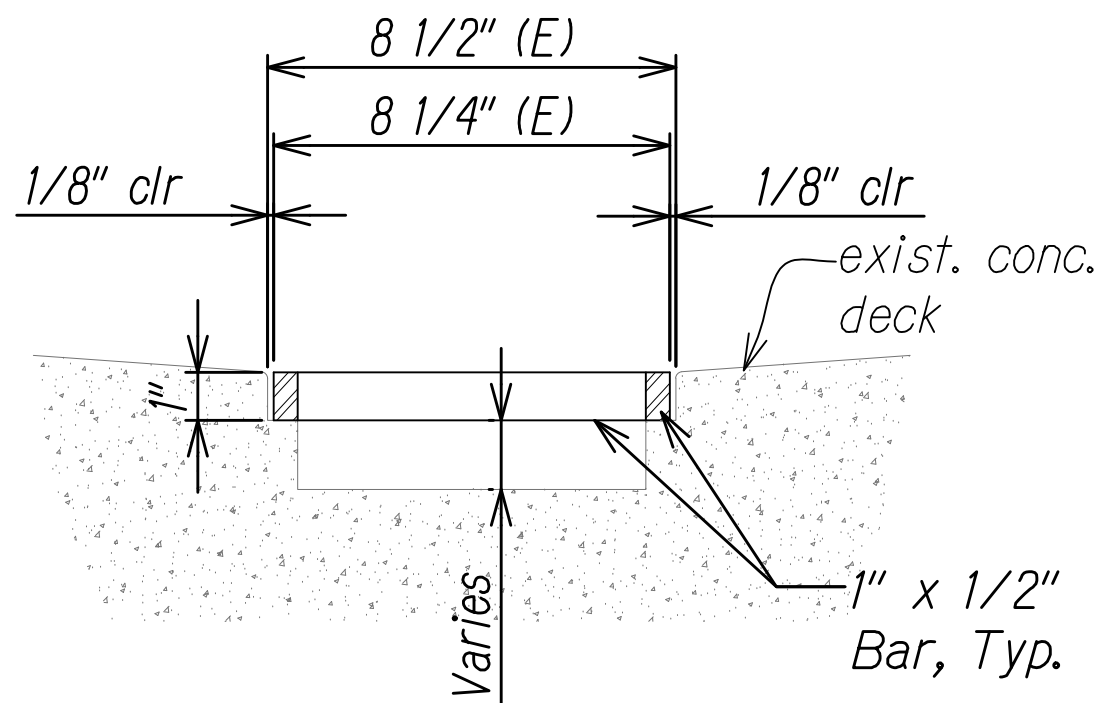
PIIKOI VIADUCT PLAN
RAILING REPAIR

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

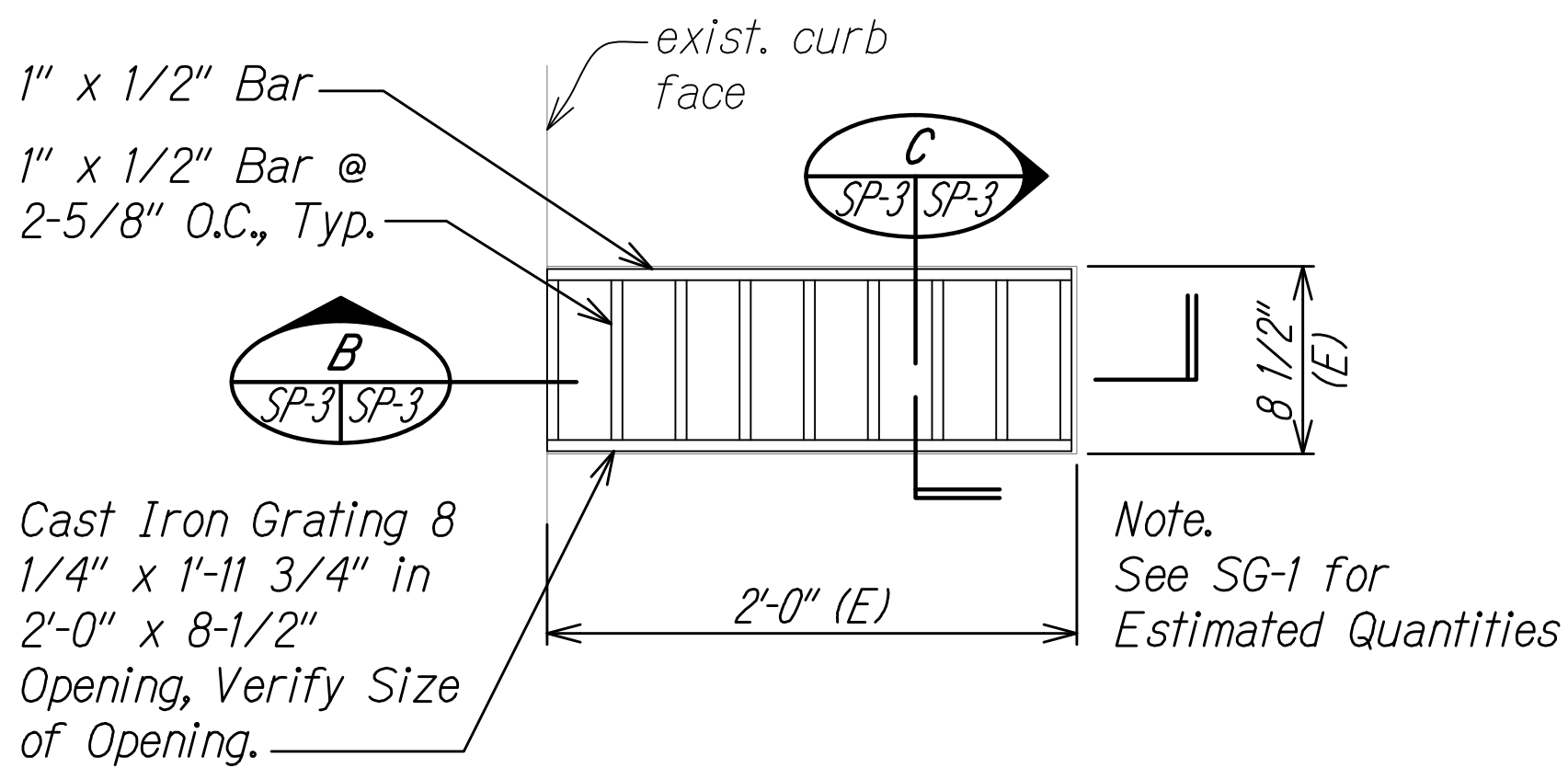
Scale: AS NOTED Date: August 2021

SHEET No. SP-2 OF 27 SHEETS

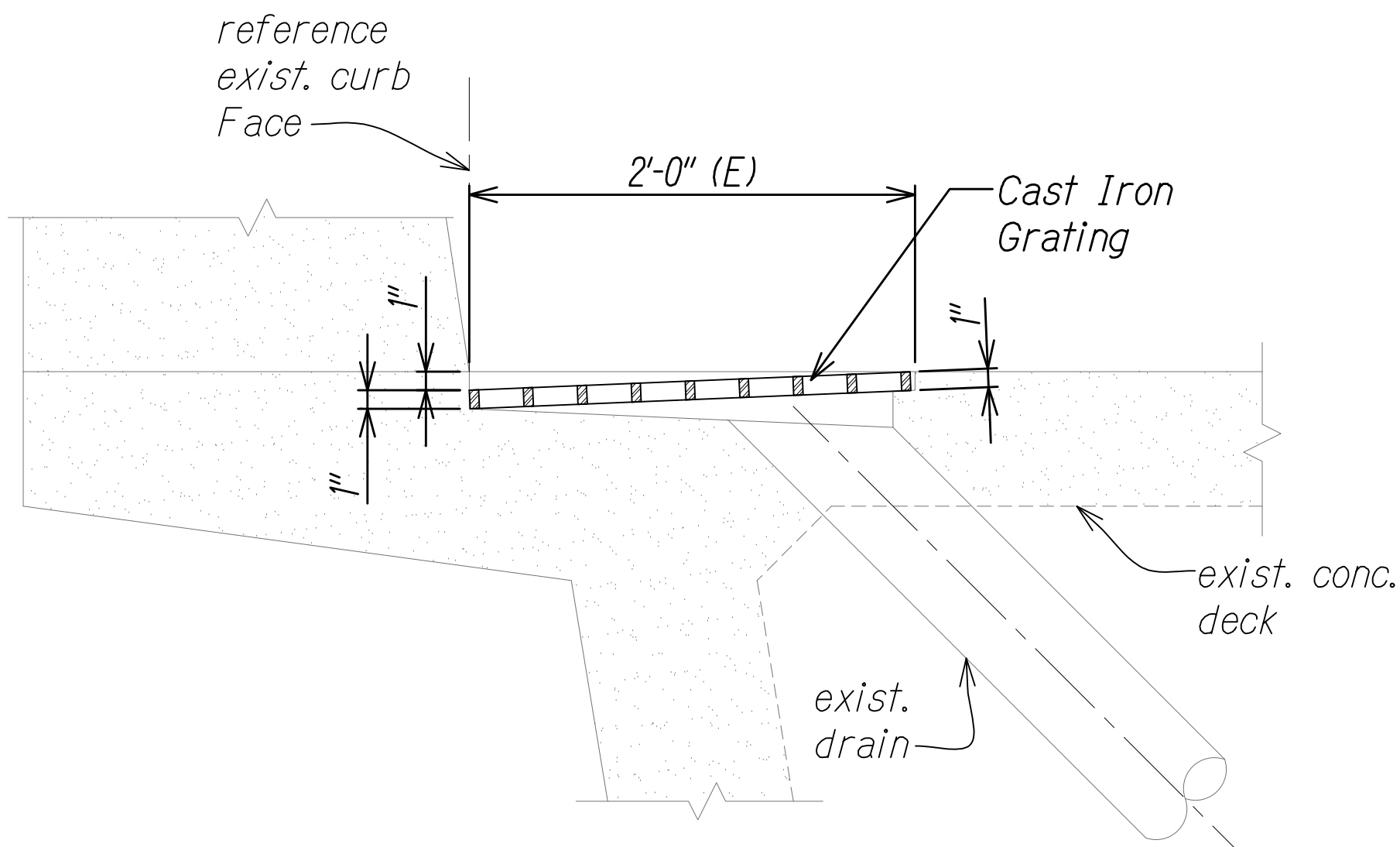
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)	2021	291	304



SECTION
Scale: 3" = 1'-0"



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

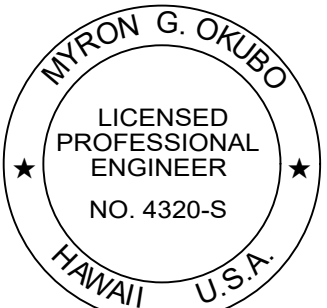
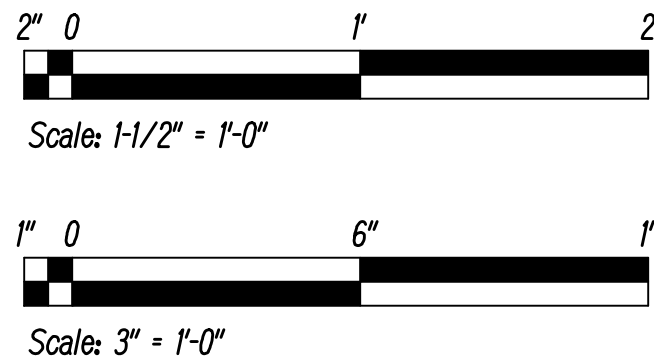


SECTION
Scale: 1 1/2" = 1'-0"

NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 And SG-2.
- The Contractor To Verify Size Of Opening Of Deck Drain.
- Clear Debris and Dirt From Deck Drain and Downspout which was Clogged by Debris and Dirt.
- Replace Or Repair Existing Deck Drain Grating which was Damaged or Missing.
- Deck Drain Grating to be Able to Resist HL-93 Loading.

GRAPHIC SCALES:

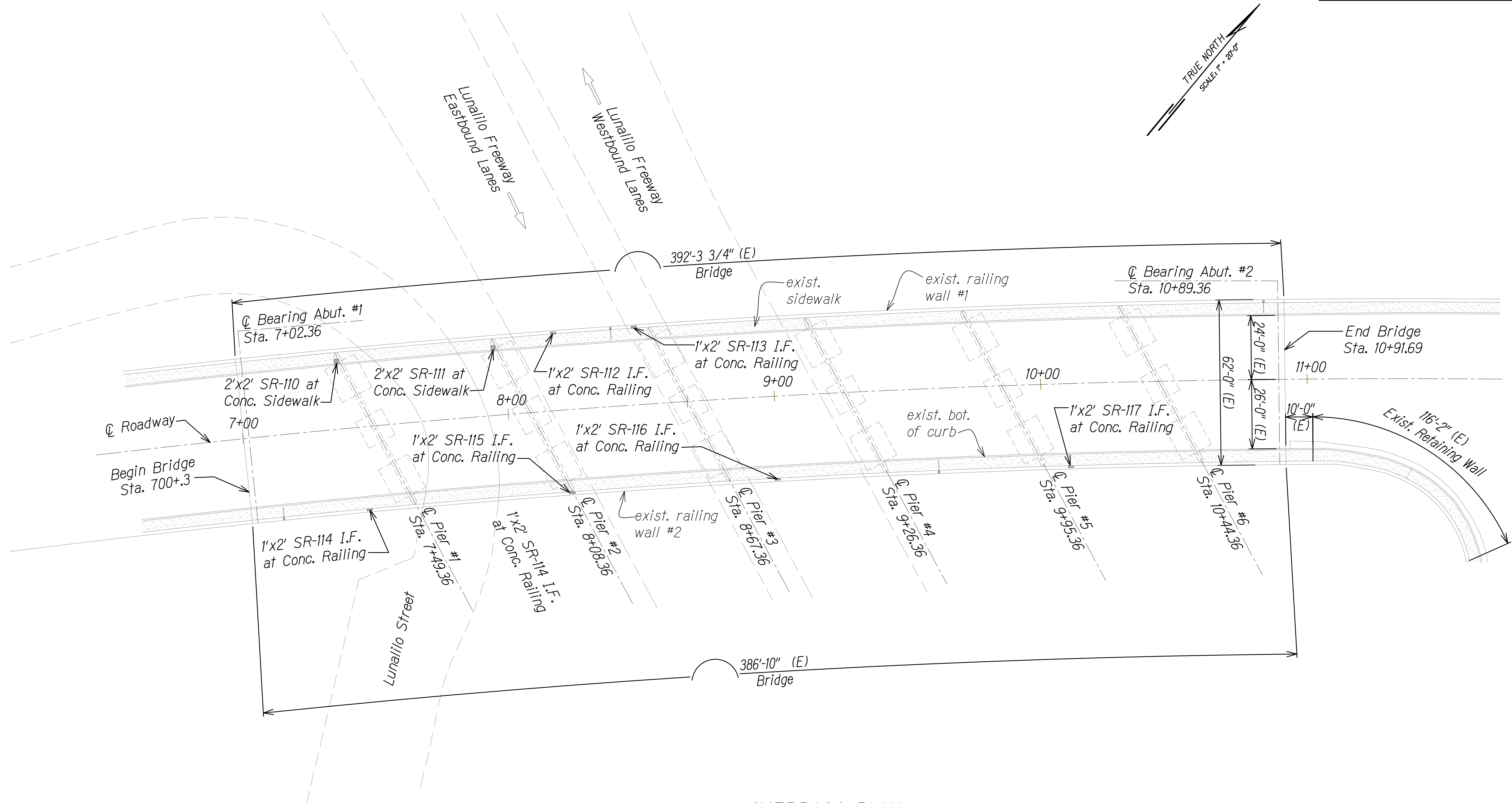


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PIIKOI VIADUCT
DECK DRAIN DETAILS
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-HI-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SP-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	292	304



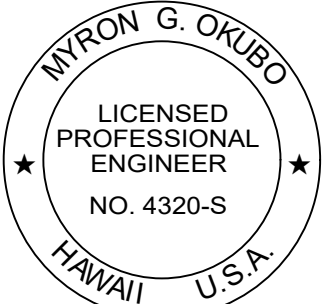
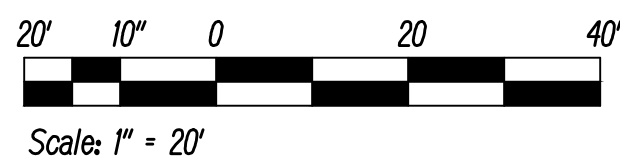
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoad Rails, No Work Over Live Traffic, etc

OVERPASS PLAN

Scale: 1" = 20'

GRAPHIC SCALE:



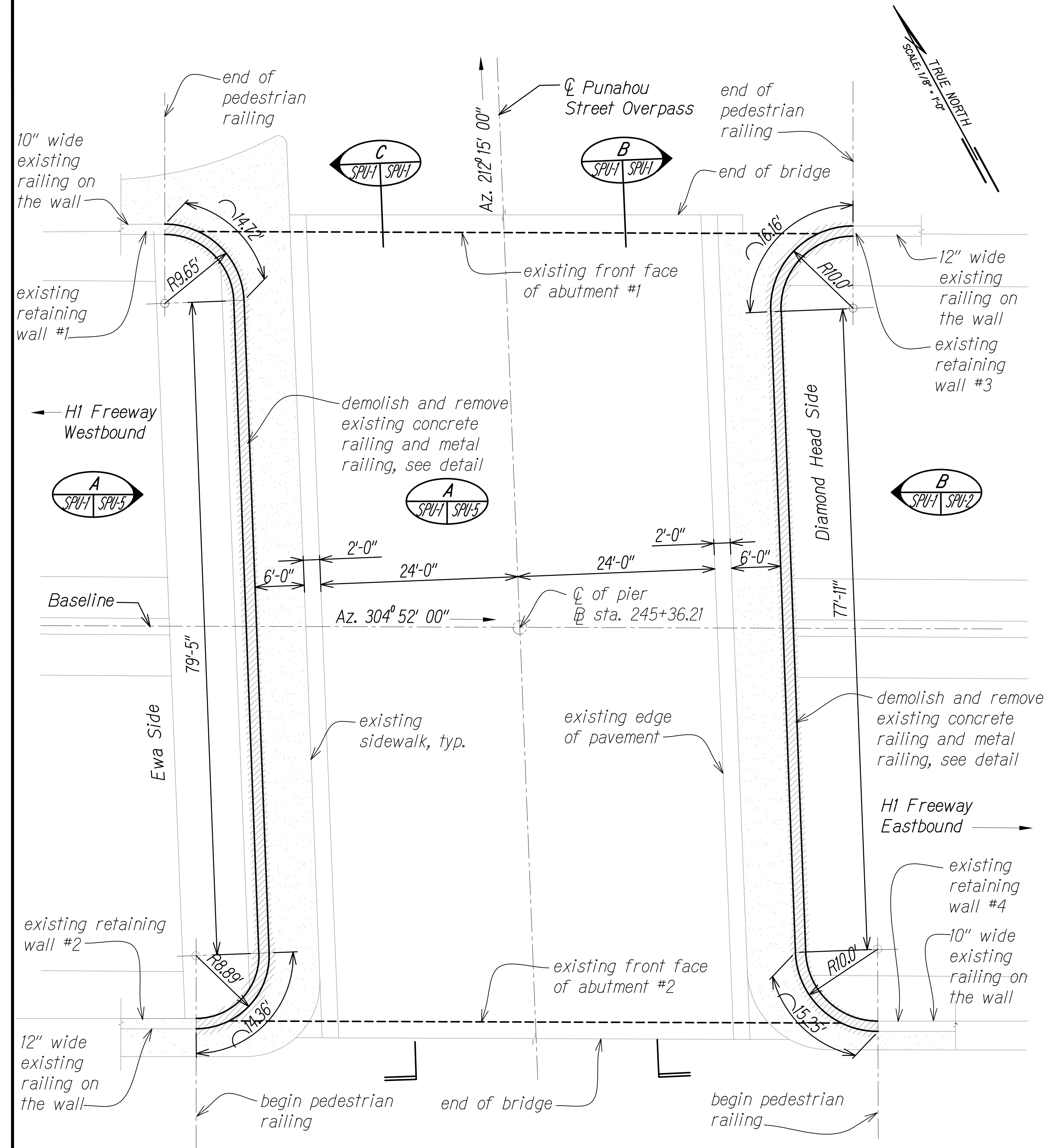
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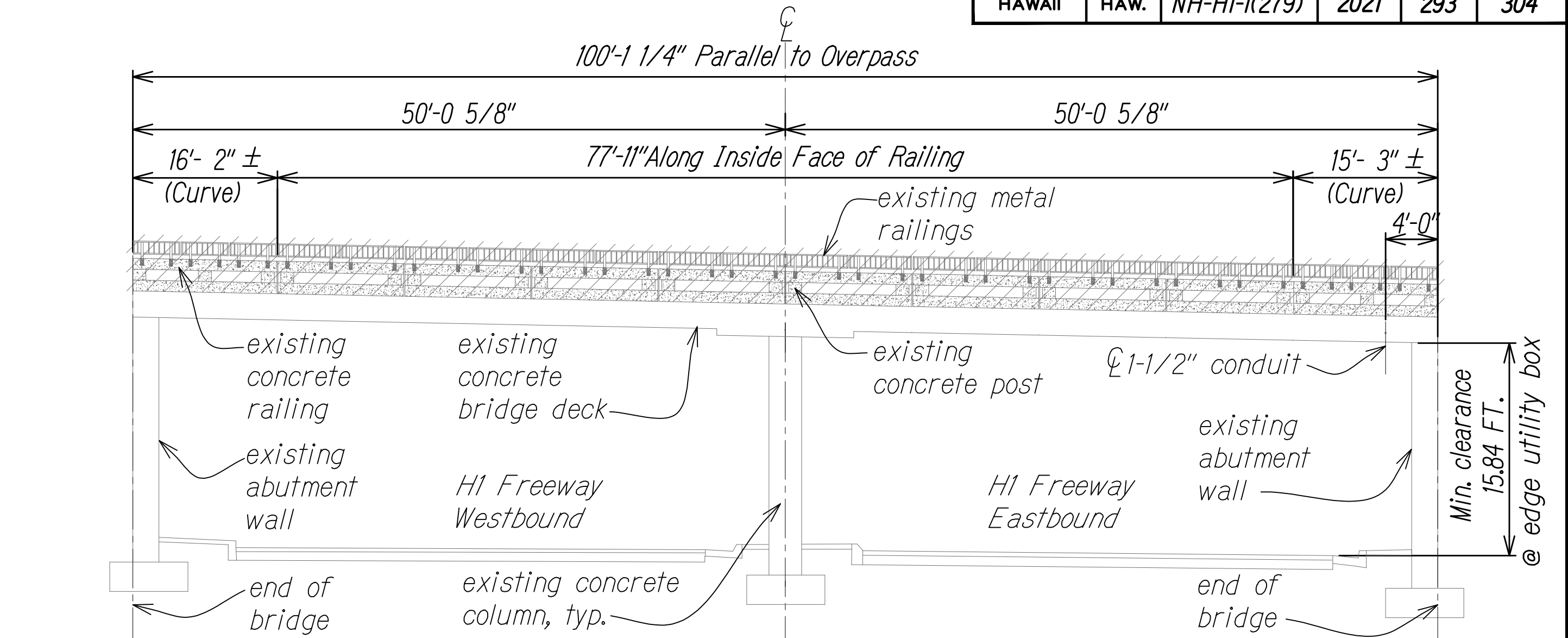
04/30/22
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**KEEAUMOKU STREET
OVERPASS - PLAN**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SKE-1 OF 27 SHEETS

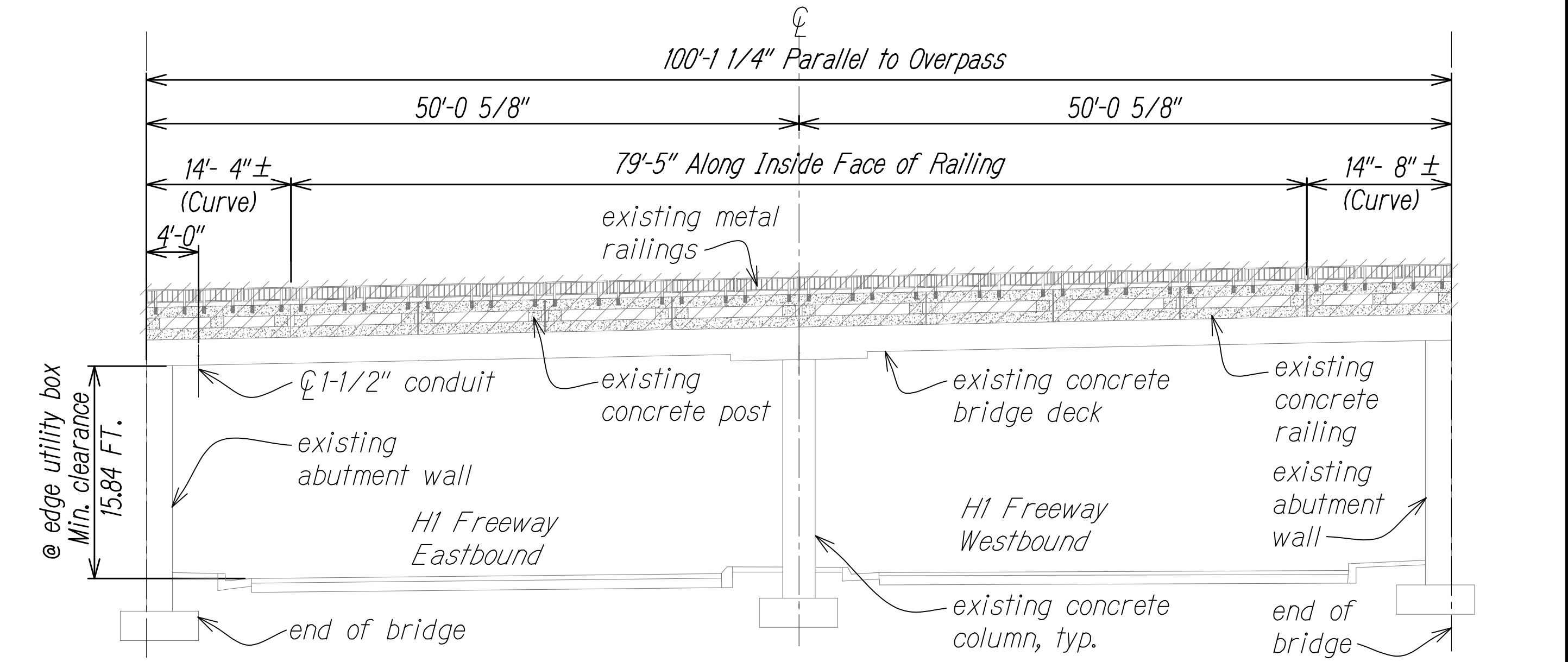
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)	2021	293	304



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



LONGITUDINAL SECTION DEMOLITION- DIAMOND HEAD SIDE (LOOKING IN-TO-OUT)
Scale: 1/8" = 1'-0"



LONGITUDINAL SECTION DEMOLITION- EWA SIDE (LOOKING IN TO OUT)
Scale: 1/8" = 1'-0"

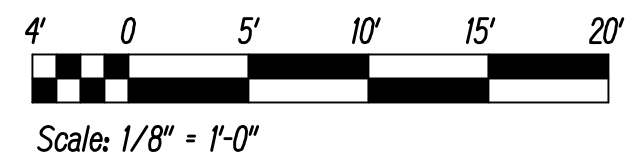
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoad Rails, No Work Over Live Traffic, etc



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

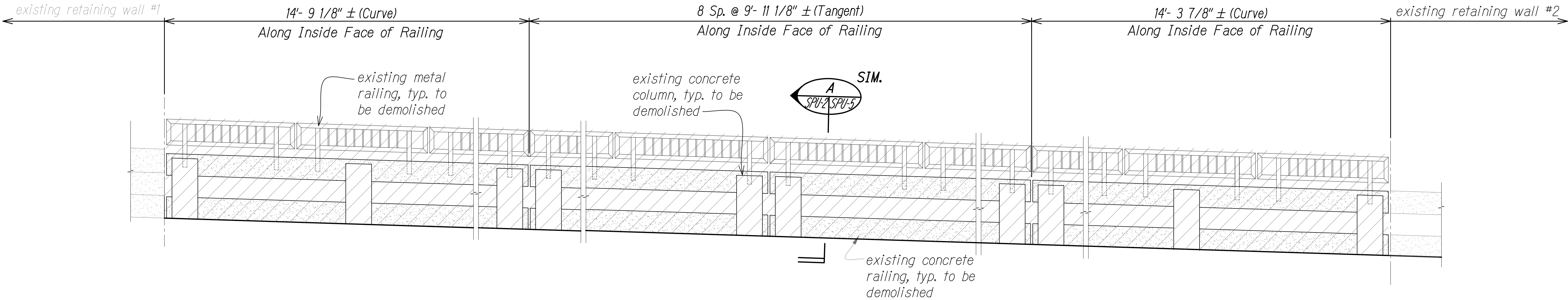
**PUNAHOU STREET OVERPASS
RAILING DEMOLITION PLAN**

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-HI-1(279)

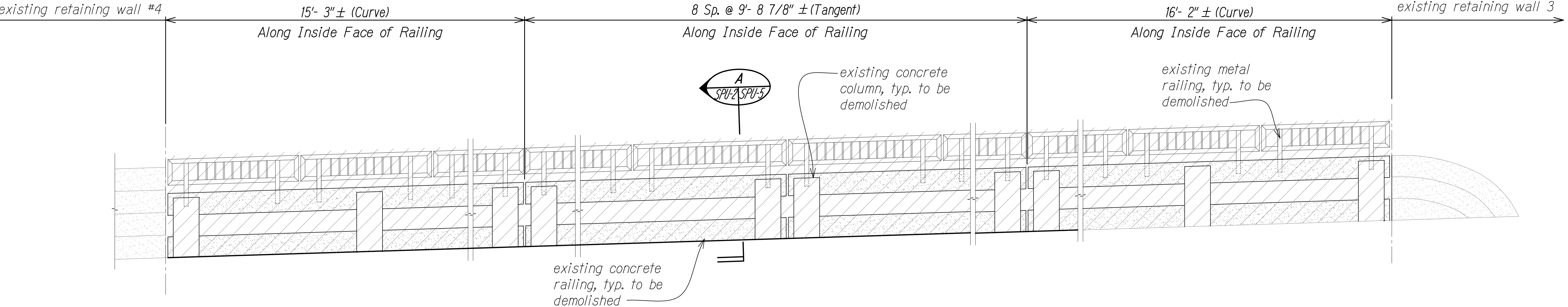
Scale: AS NOTED Date: August 2021

SHEET No. SPU-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	294	304



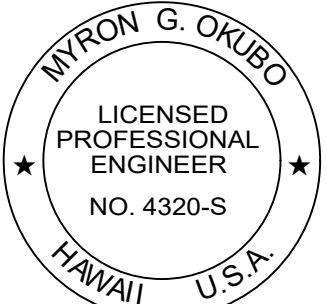
EWA SIDE RAILING ELEVATION- DEMOLITION (LOOKING OUT-TO-IN)
Scale: 1/2" = 1'-0"



DIAMOND HEAD SIDE RAILING ELEVATION- DEMOLITION (LOOKING OUT-TO-IN)
Scale: 1/2" = 1'-0"

NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

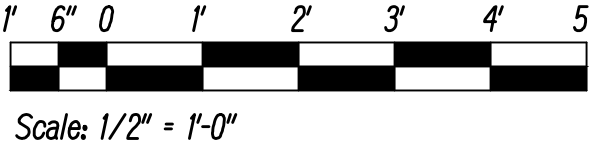


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SIGNATURE

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OF THE LICENSE



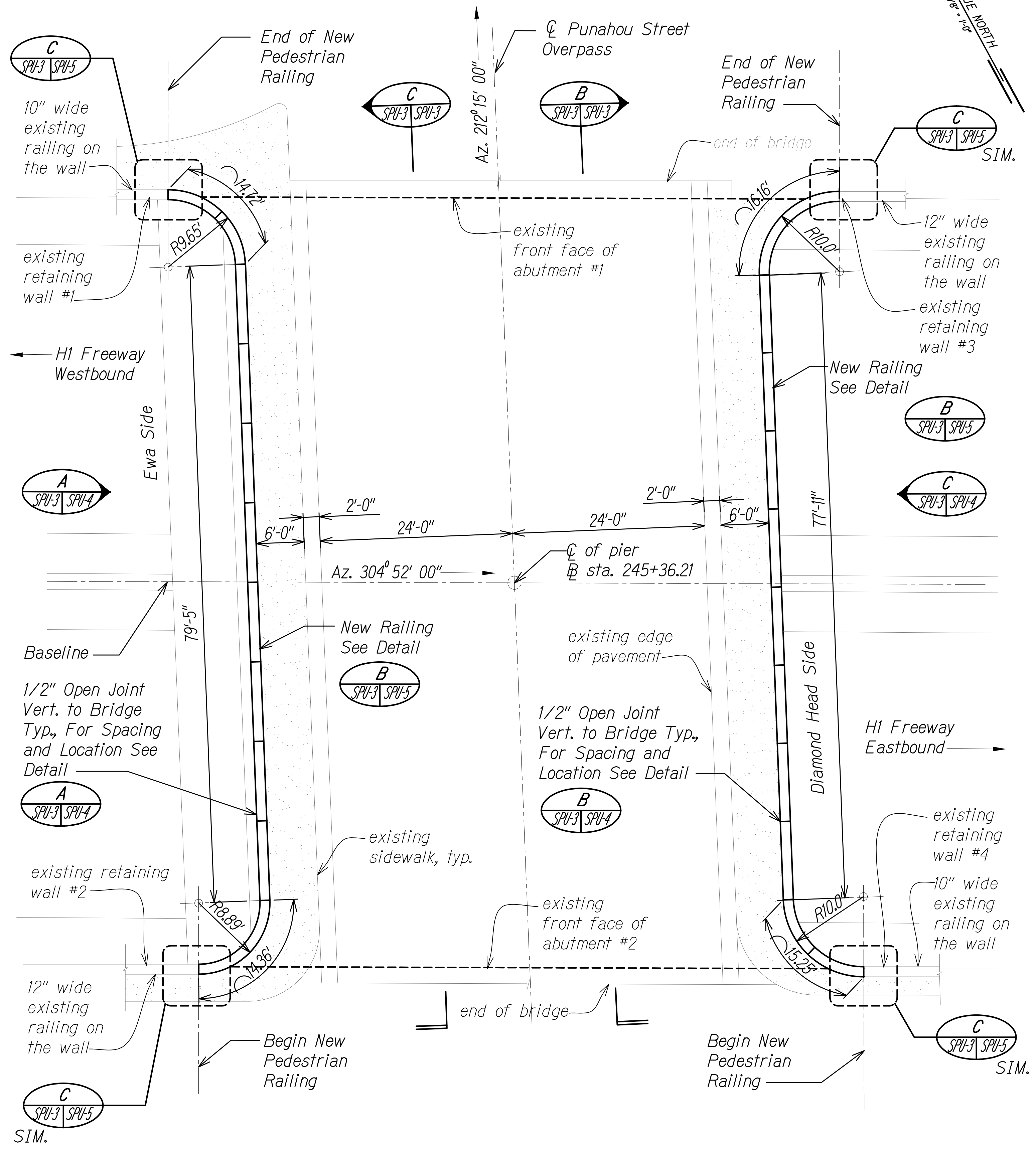
Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

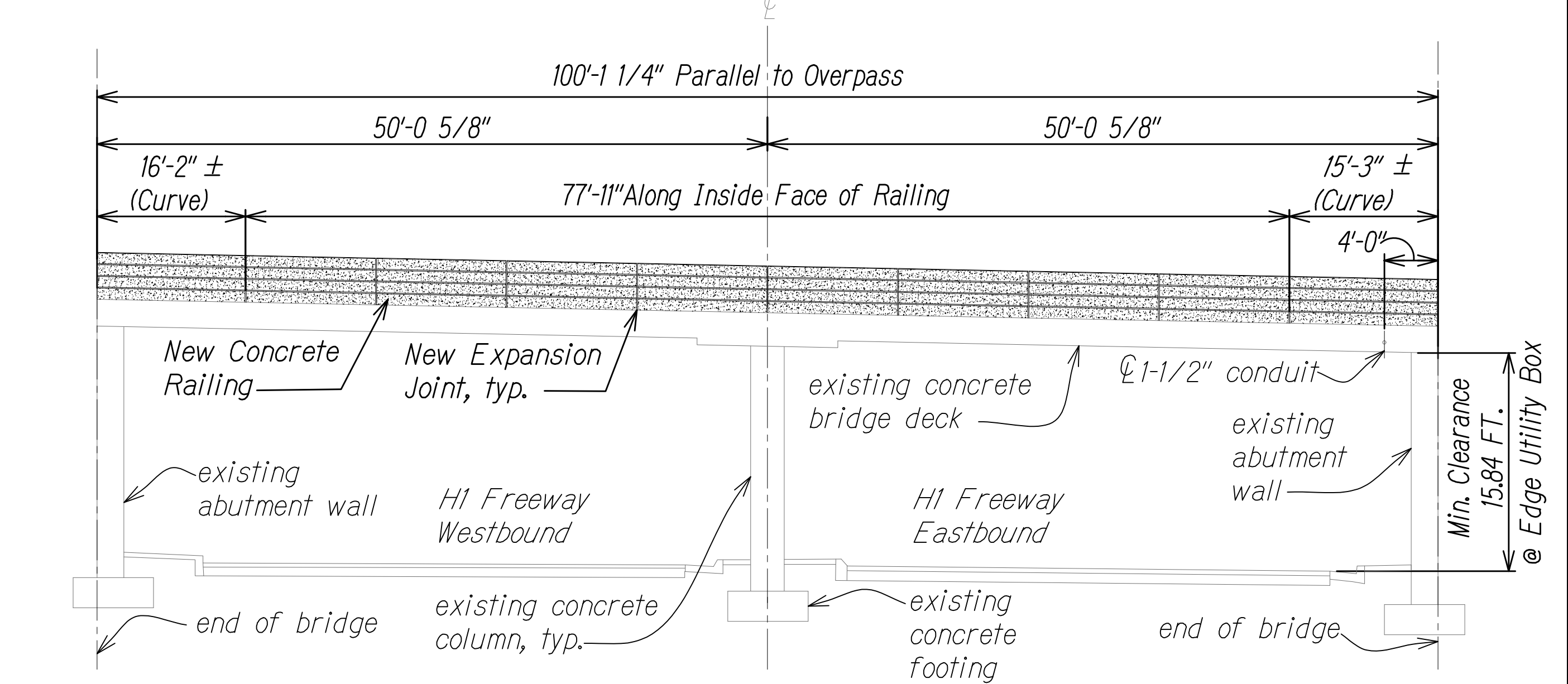
PUNAHOU STREET OVERPASS
RAILING ELEVATION - DEMOLITION
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED
Date: August 2021

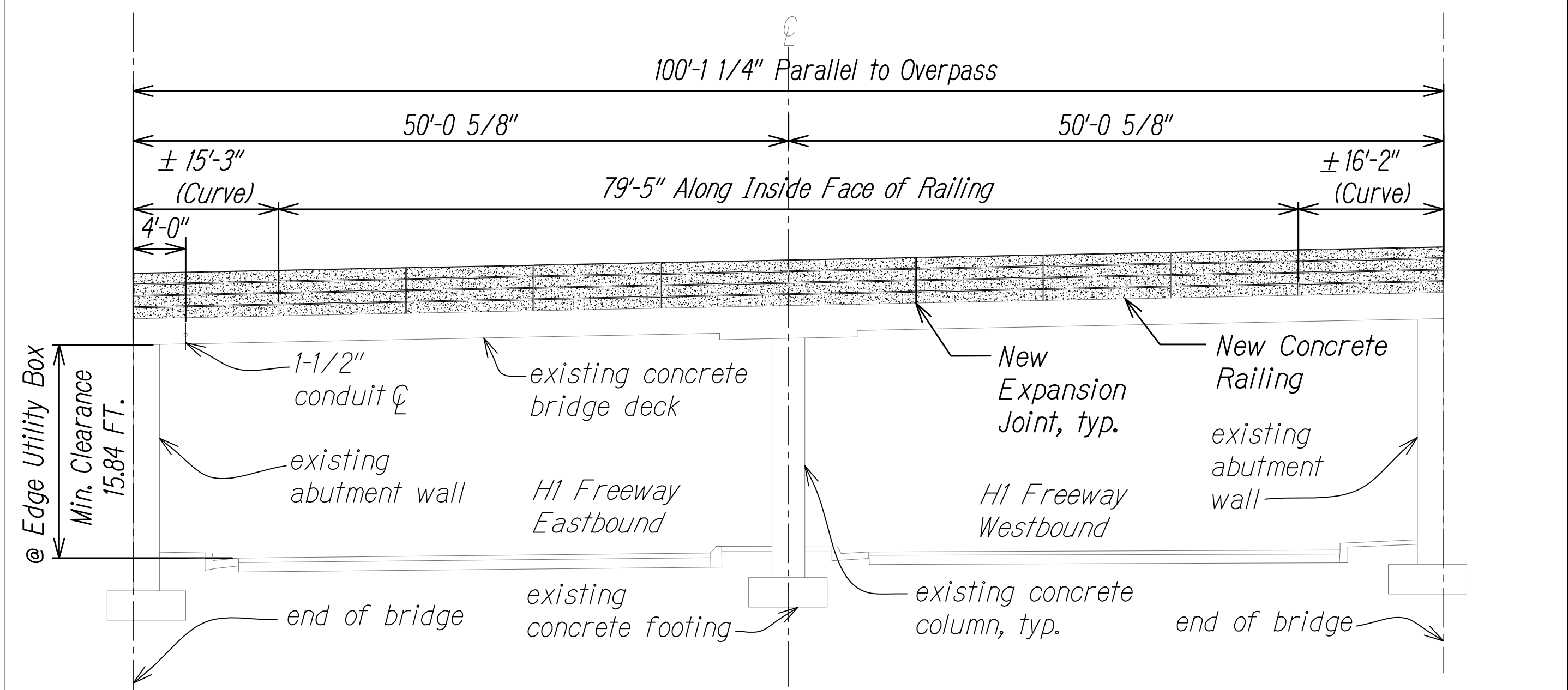
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	295	304



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



LONGITUDINAL SECTION RENOVATION-DIAMOND HEAD SIDE (LOOKING IN-TO-OUT)
Scale: 1/8" = 1'-0"



LONGITUDINAL SECTION RENOVATION- EWA SIDE (LOOKING IN-TO-OUT)
Scale: 1/8" = 1'-0"

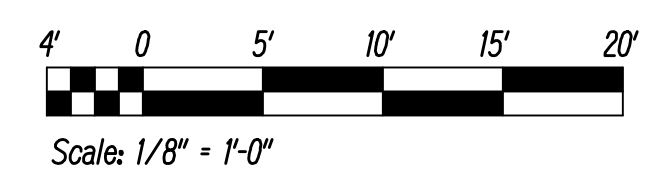
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.



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04/30/22
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HIGHWAYS DIVISION

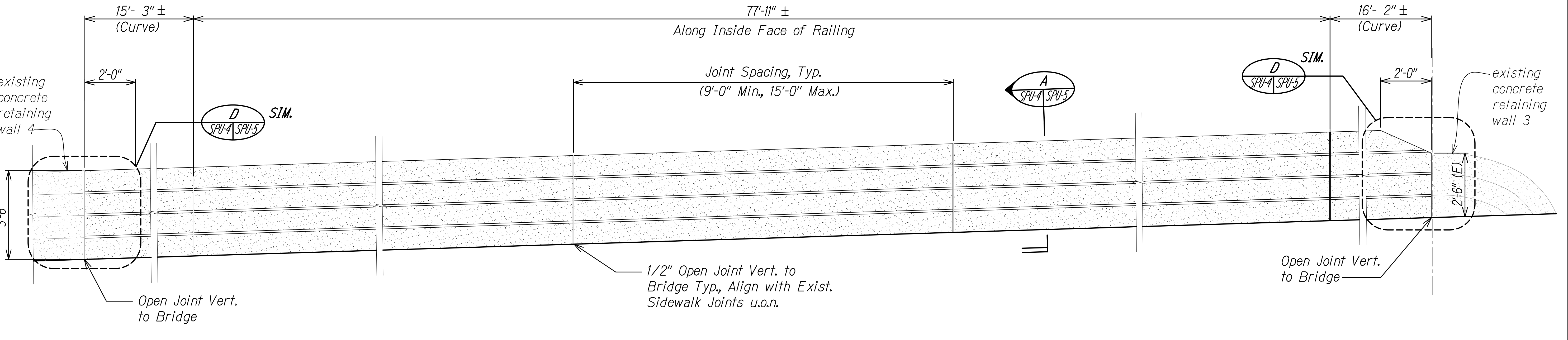
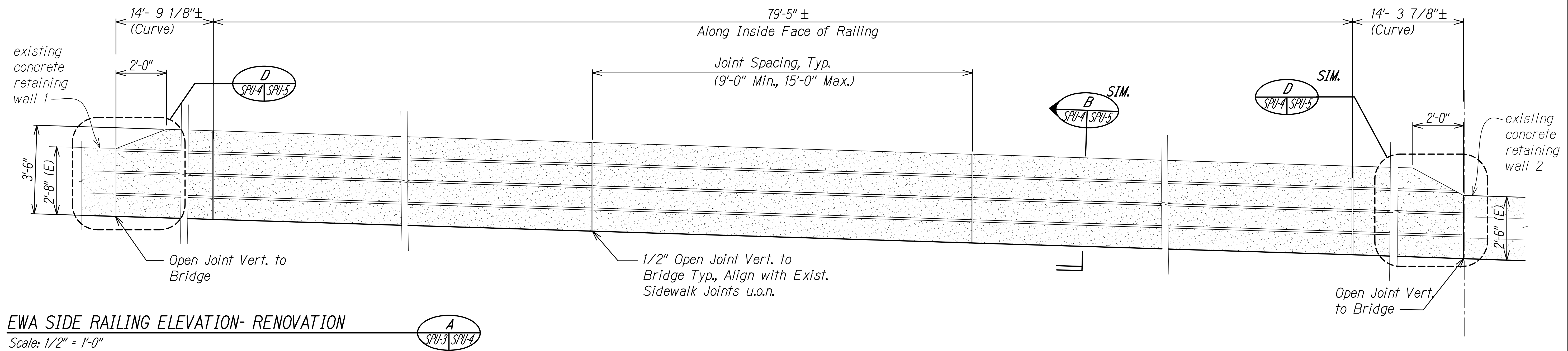
**PUNAHOU STREET OVERPASS
RAILING RENOVATION PLAN**

INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED Date: August 2021

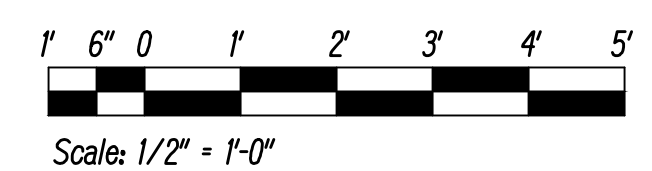
SHEET No. SPU-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)	2021	296	304



- NOTES:
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
 - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

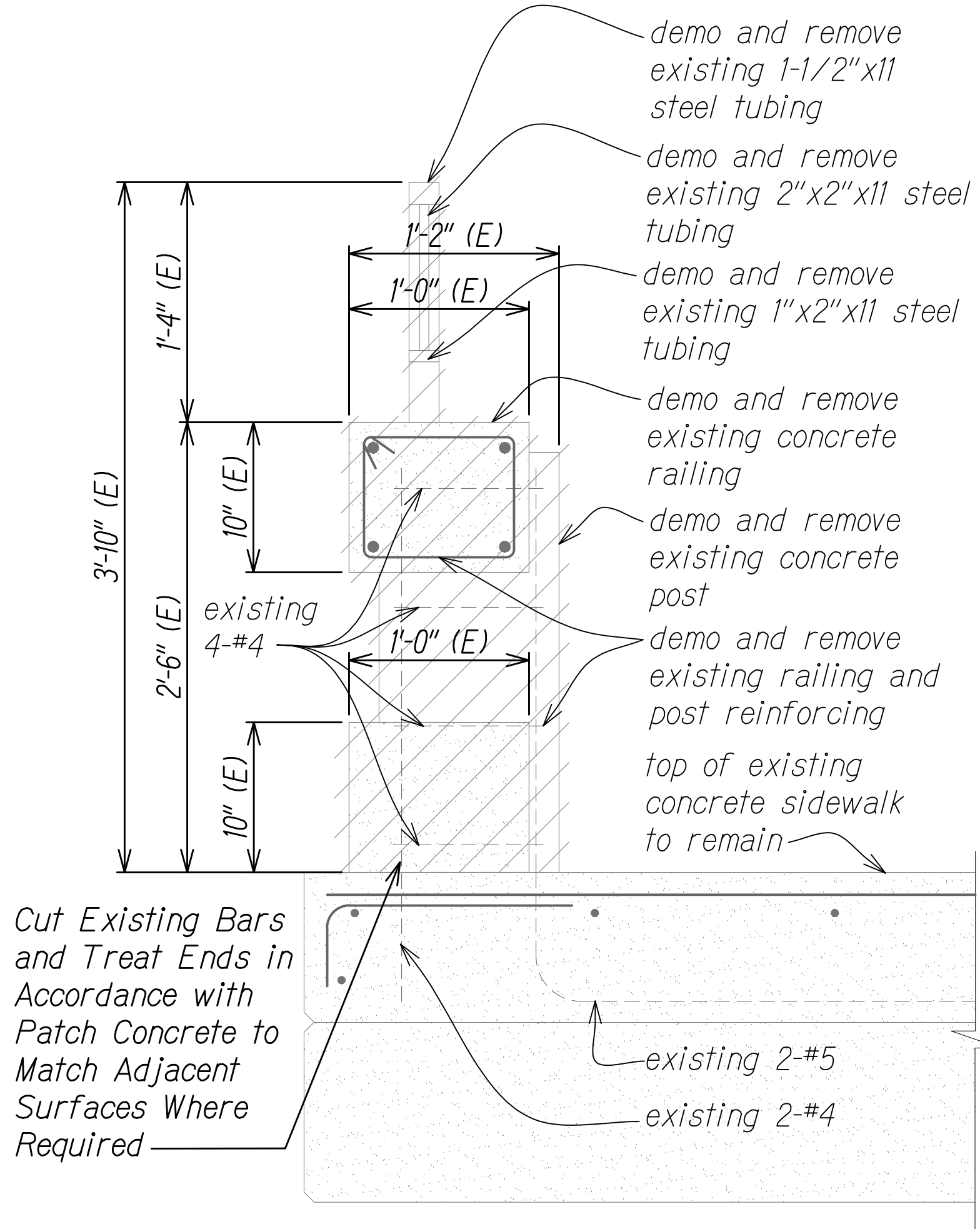
KAIMUKI SIDE RAILING ELEVATION- RENOVATION
Scale: 1/2" = 1'-0"



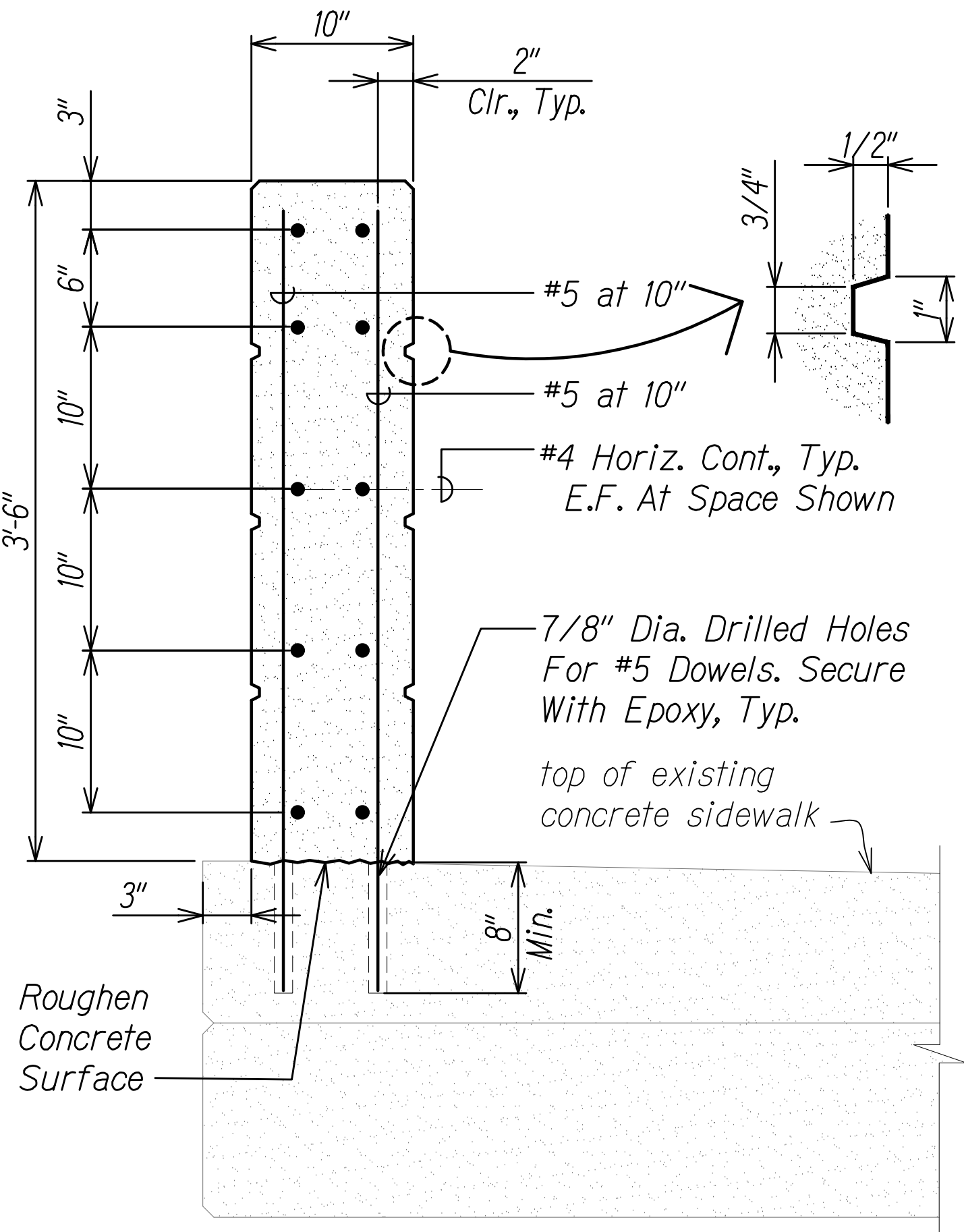
MYRON G. OKUBO
LICENSED PROFESSIONAL ENGINEER
NO. 4320-S
HAWAII U.S.A.
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Signature: Myron Okubo
EXPIRATION DATE OF THE LICENSE: 04/30/22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PUNAHOU STREET OVERPASS
RAILING ELEVATION- RENO.
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-HI-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SPU-4 OF 27 SHEETS

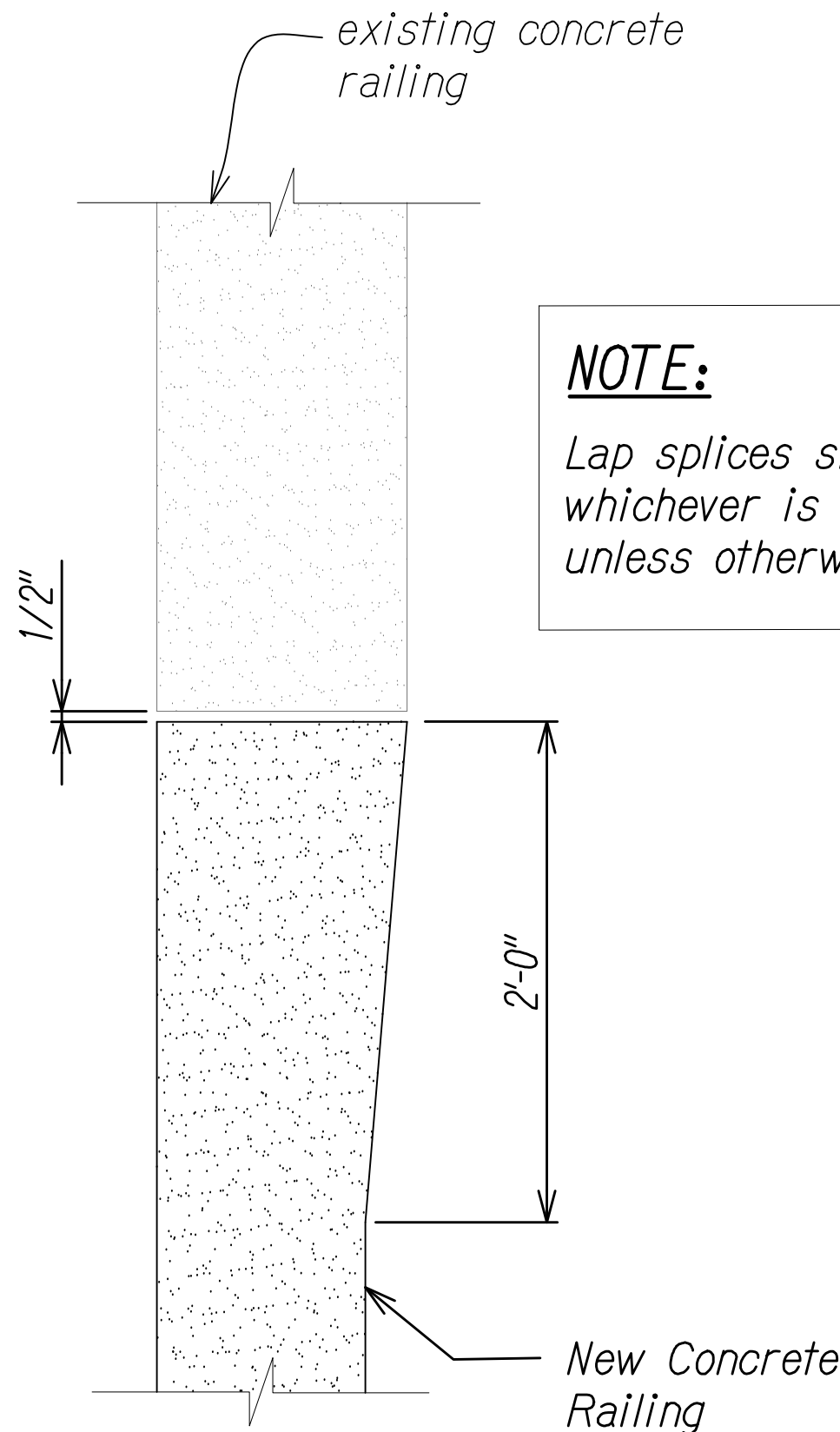
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	297	304



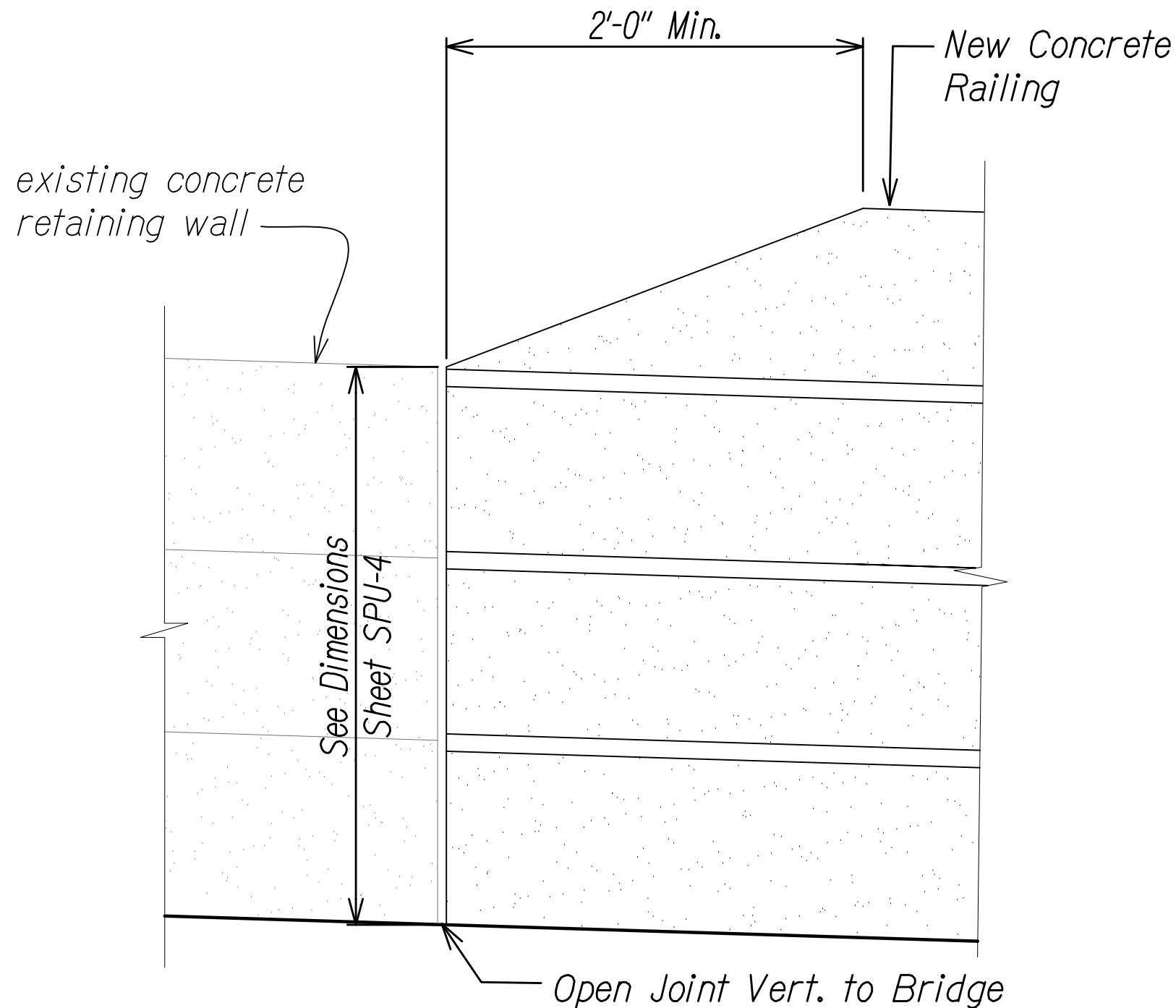
TYPICAL DEMOLISHED RAILING SECTION
 Scale: 1 1/2" = 1'-0"



TYPICAL RENOVATED RAILING SECTION
 Scale: 1 1/2" = 1'-0"

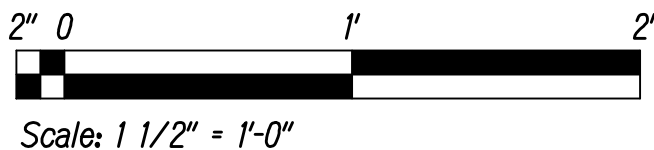


TYPICAL RAILING TRANSITION-PLAN VIEW
 Scale: 1 1/2" = 1'-0"



TYPICAL RAILING TRANSITION DETAIL
 Scale: 1 1/2" = 1'-0"

- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
 - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demood Rails, No Work Over Live Traffic, etc



MYRON G. OKUBO
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 HAWAII U.S.A.

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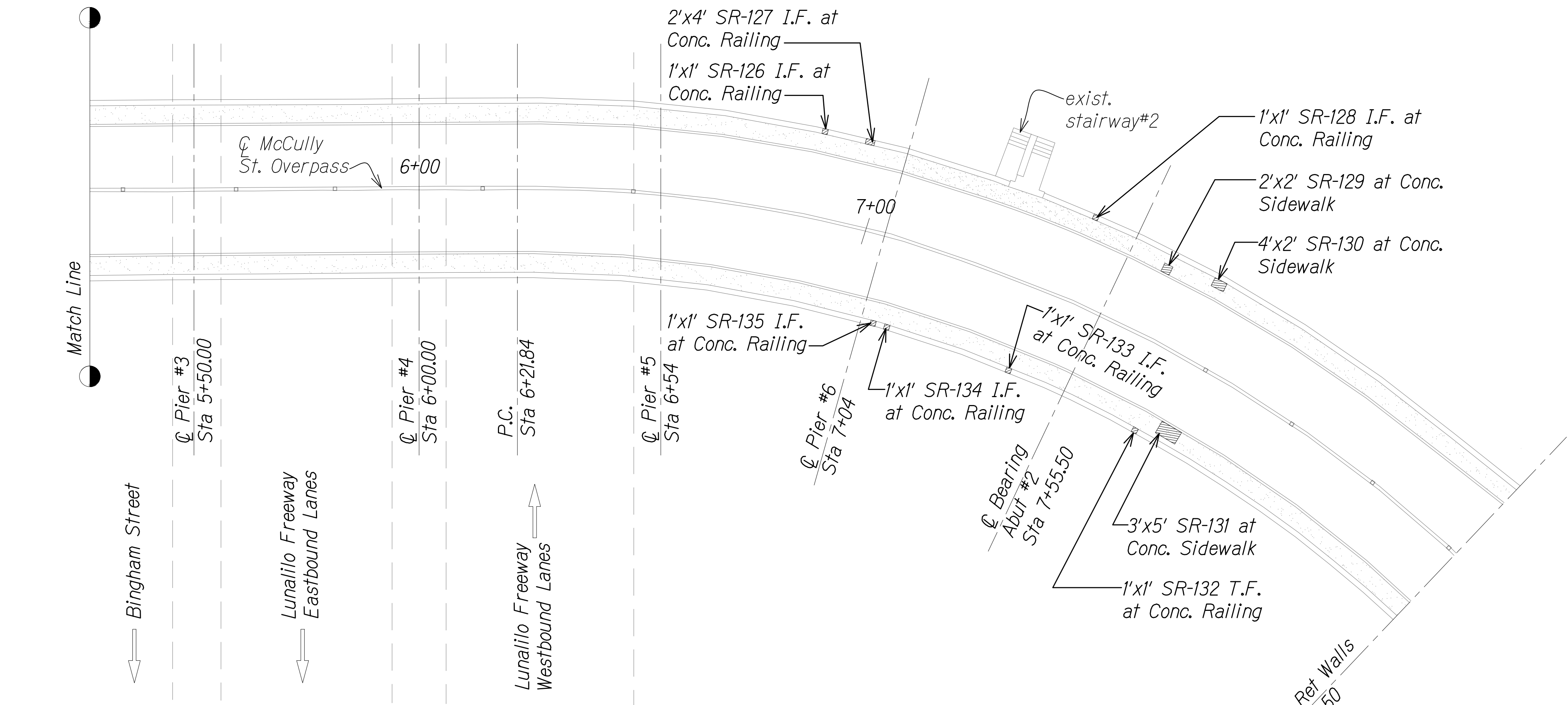
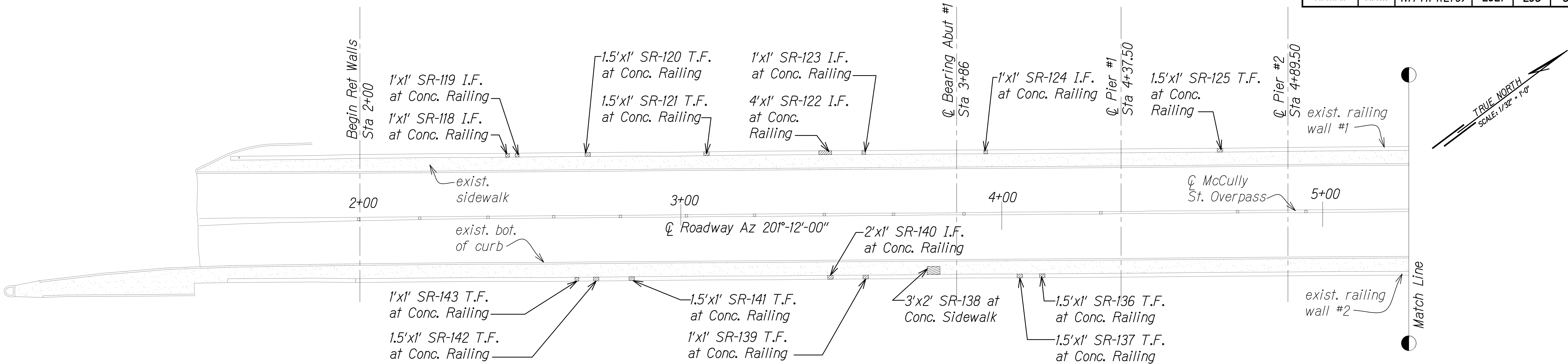
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PUNAHOU STREET OVERPASS
SECTIONS AND DETAILS
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED
Date: August 2021

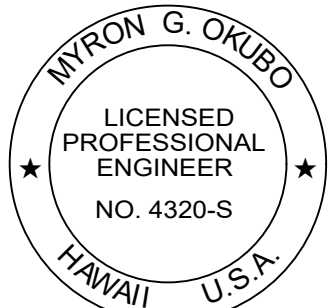
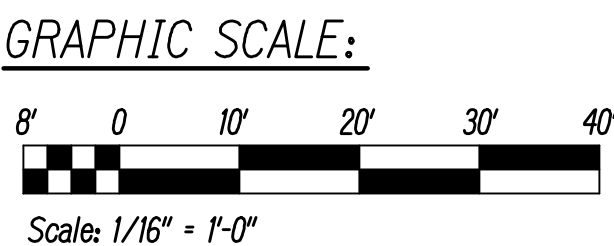
SHEET No. SPU-5 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	298	304



- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
 - SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
 - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

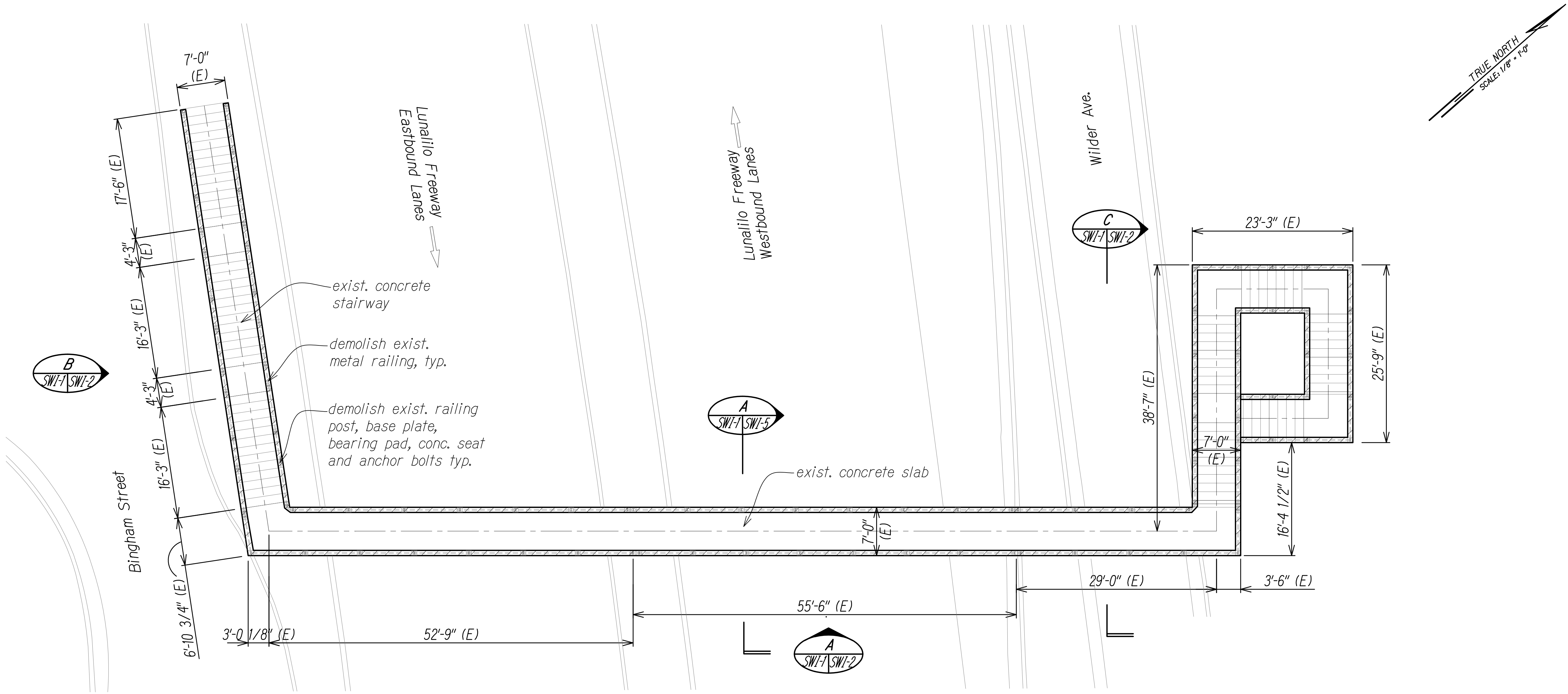
OVERPASS - PLAN
Scale: 1/16" = 1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**McCULLY STREET
OVERPASS - PLAN**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No.SMC-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	299	304



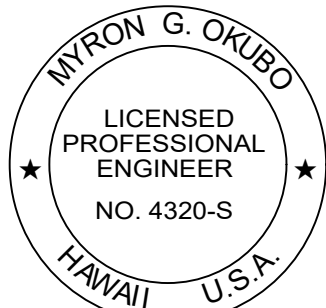
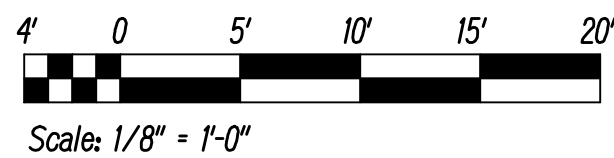
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

DEMOLITION PLAN

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

GRAPHIC SCALE:



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OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**WILDER AVENUE PEDESTRIAN
OVERCROSSING DEMOLITION PLAN**

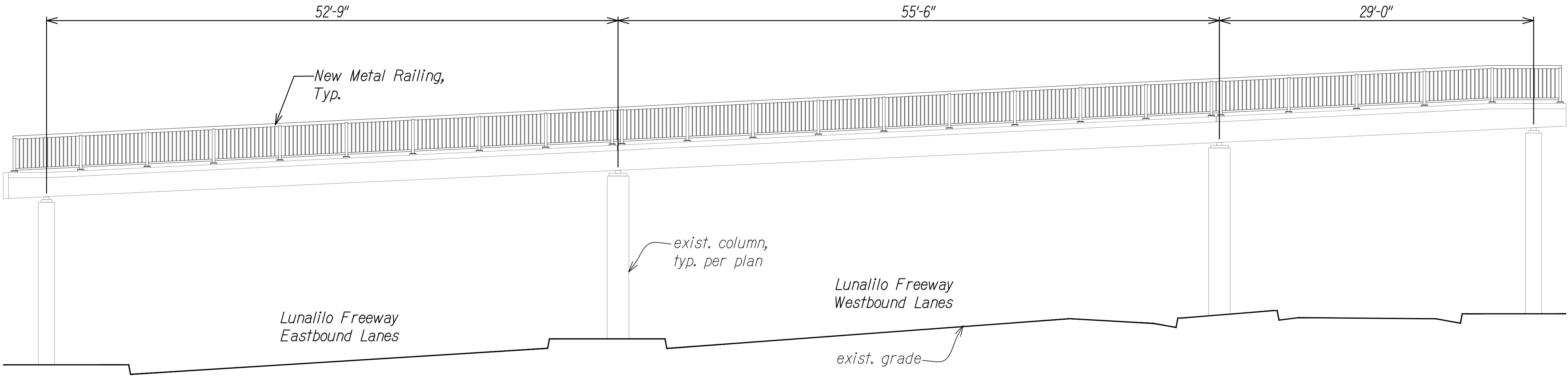
INTERSTATE ROUTE H-1 RESURFACING

Miller Pedestrian Overpass to Kapiolani Interchange

Federal-Aid Project No. NH-H1-1(279)

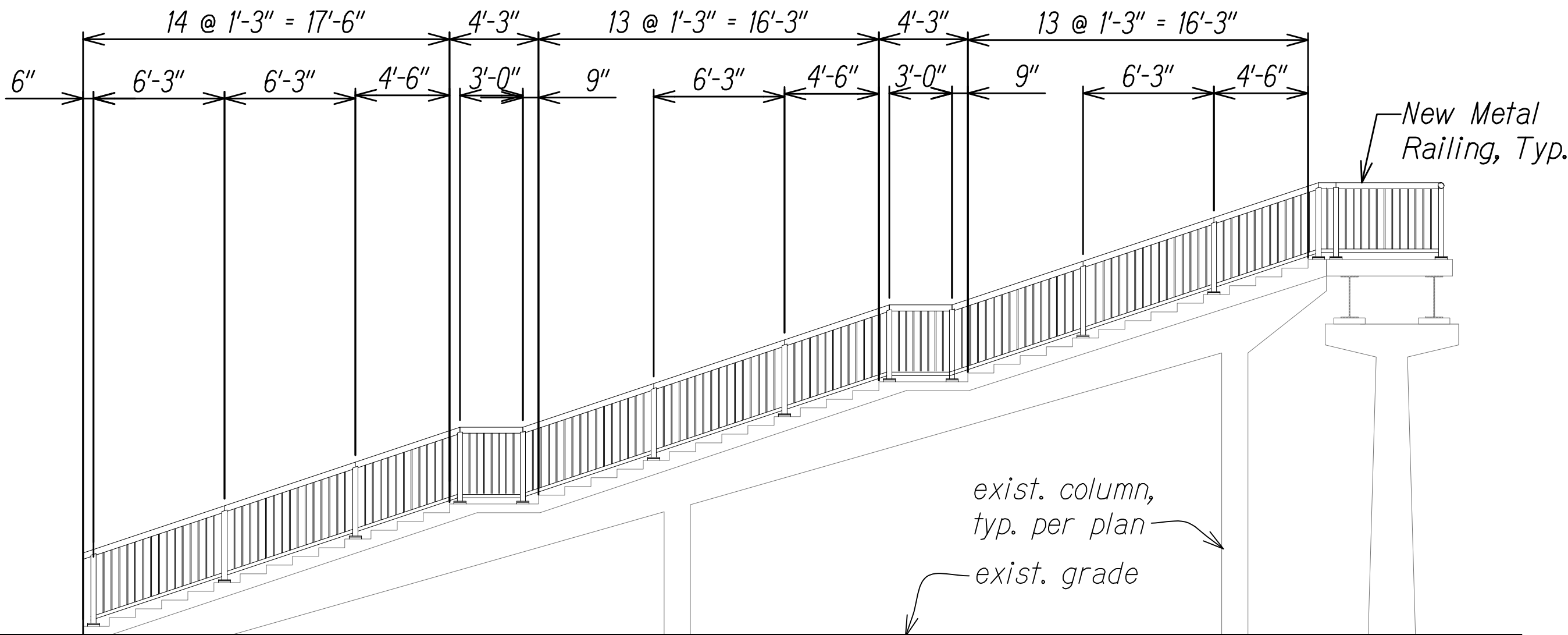
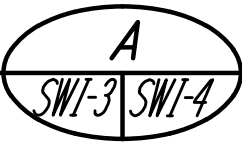
Scale: AS NOTED Date: August 2021

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	302	304



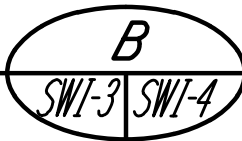
LONGITUDINAL SECTION "A" -RAILING RENOVATION

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



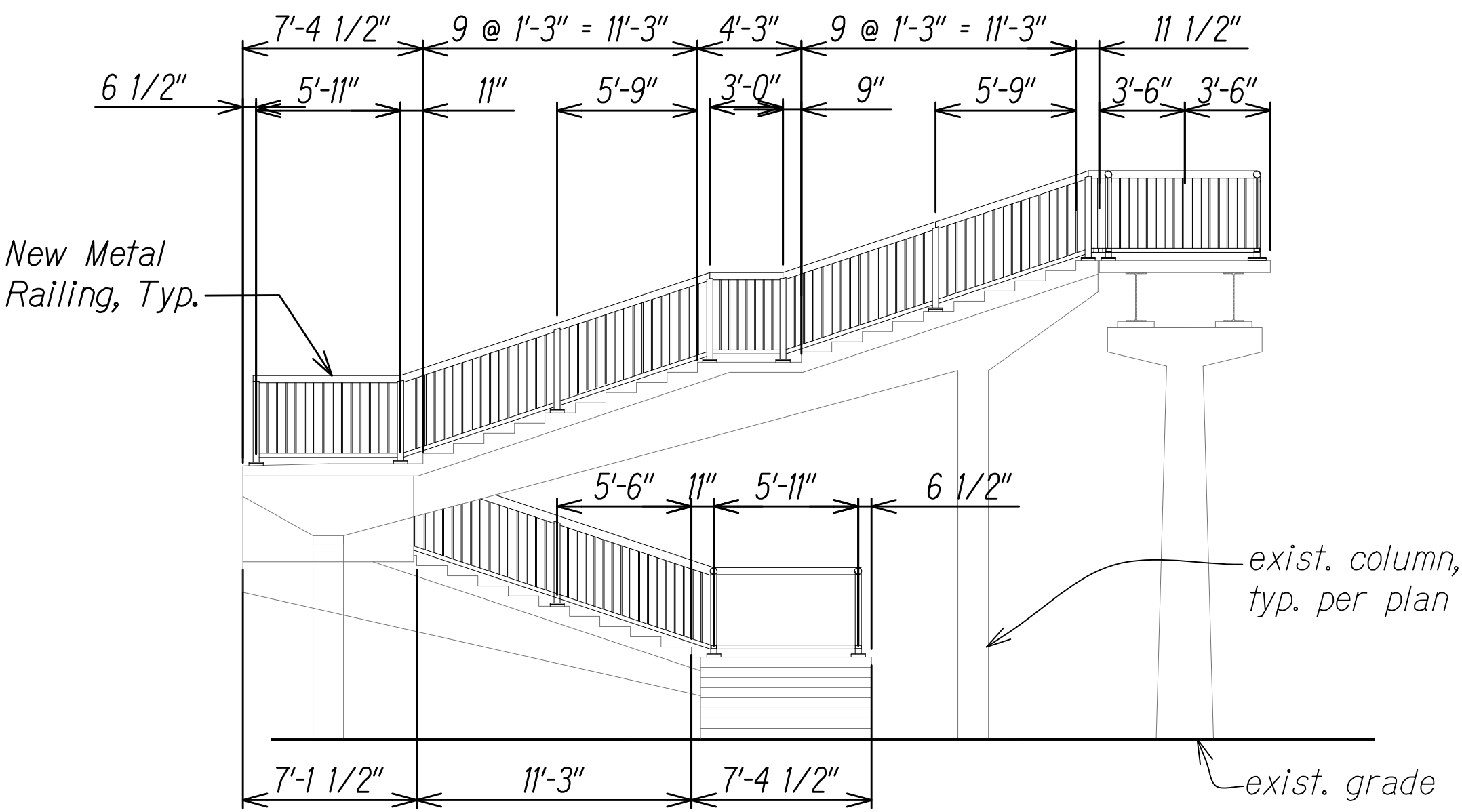
ELEVATION "B" -RAILING RENOVATION

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



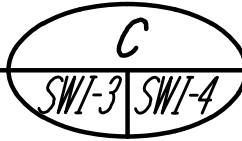
NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc

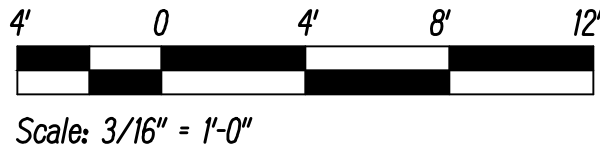


ELEVATION "C" -RAILING RENOVATION

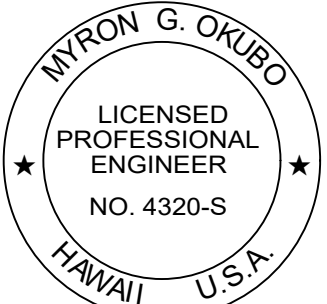
Scale: 3/16 = 1'-0"



GRAPHIC SCALE:



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



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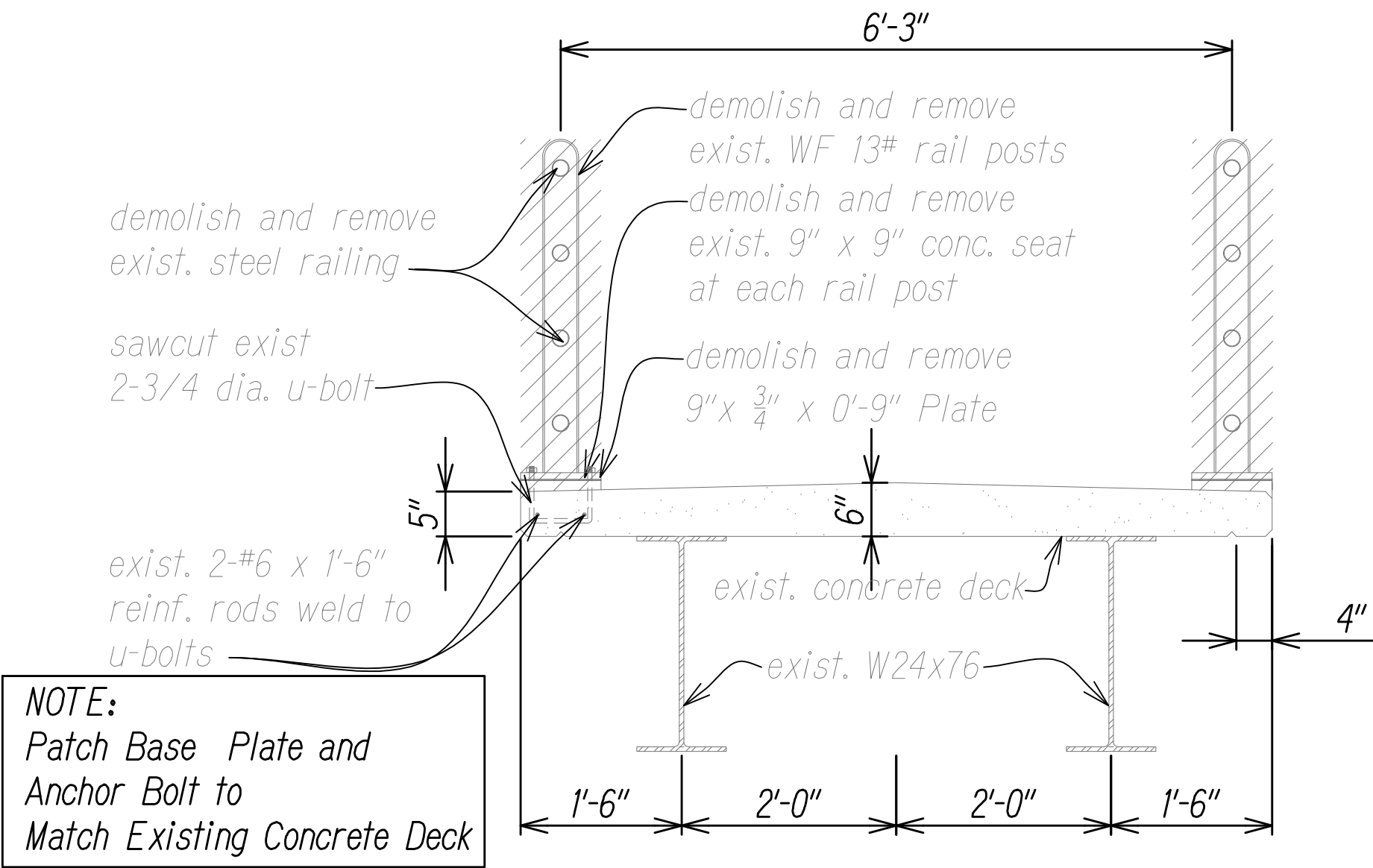
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04/30/22

EXPIRATION DATE
OF THE LICENSE

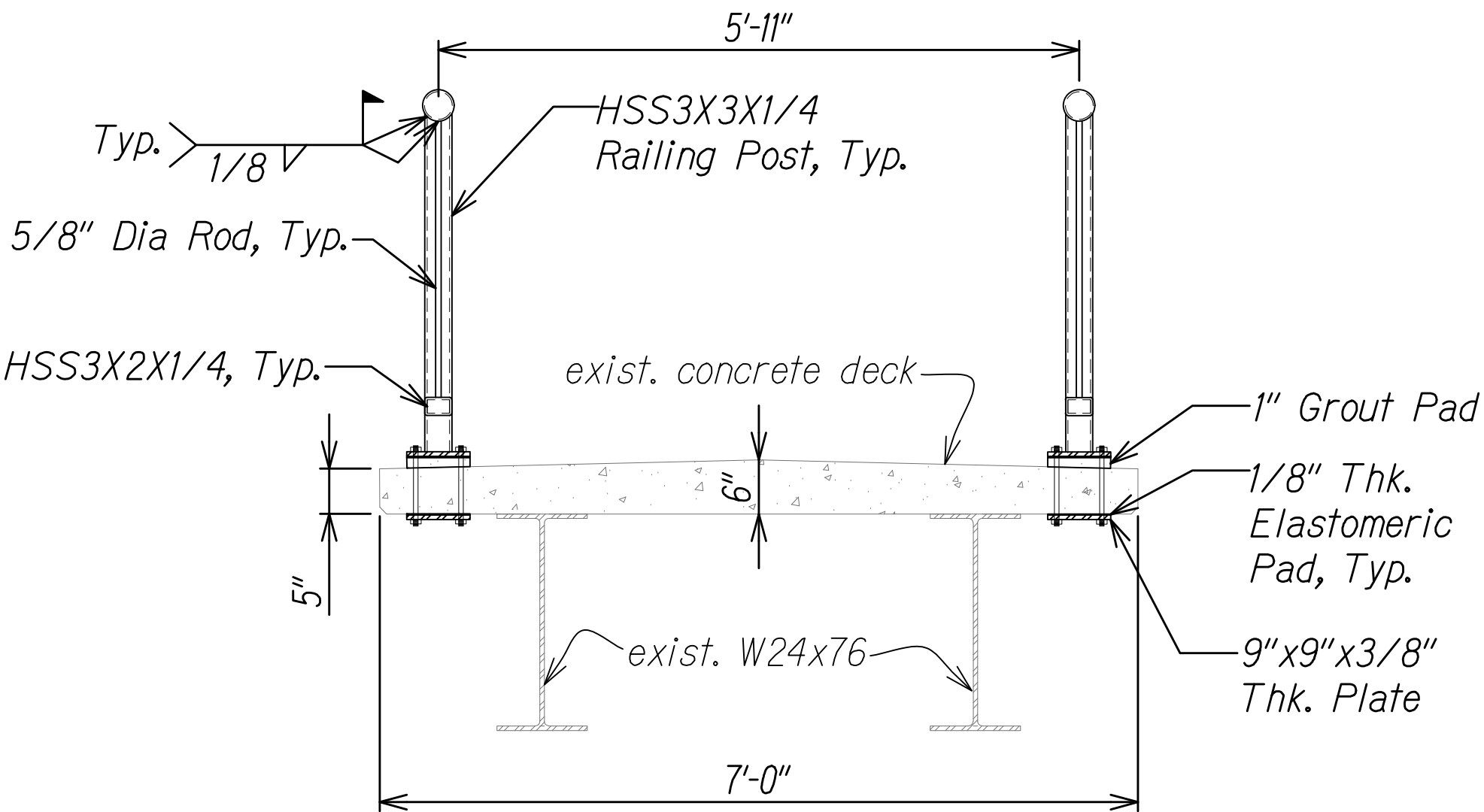
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**WILDER AVENUE PEDESTRIAN
OVERCROSSING- RAILING RENOVATION**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SWI-4 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	303	304

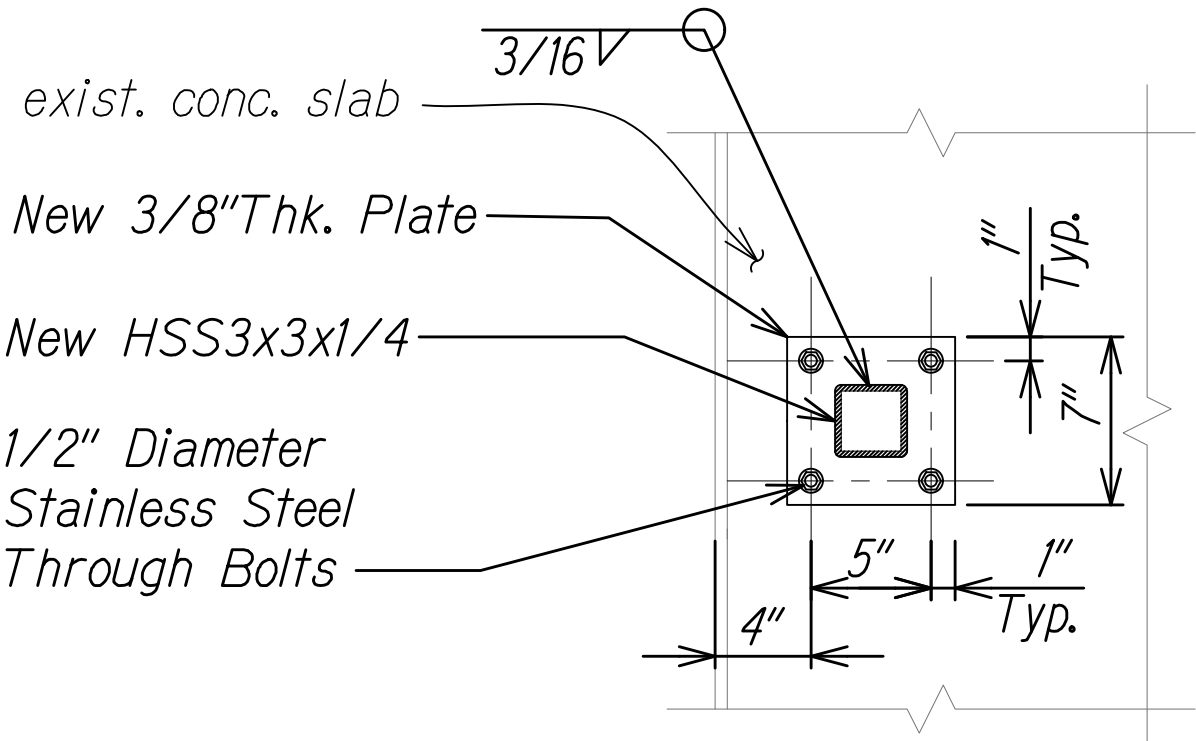


NOTE:
Patch Base Plate and
Anchor Bolt to
Match Existing Concrete Deck

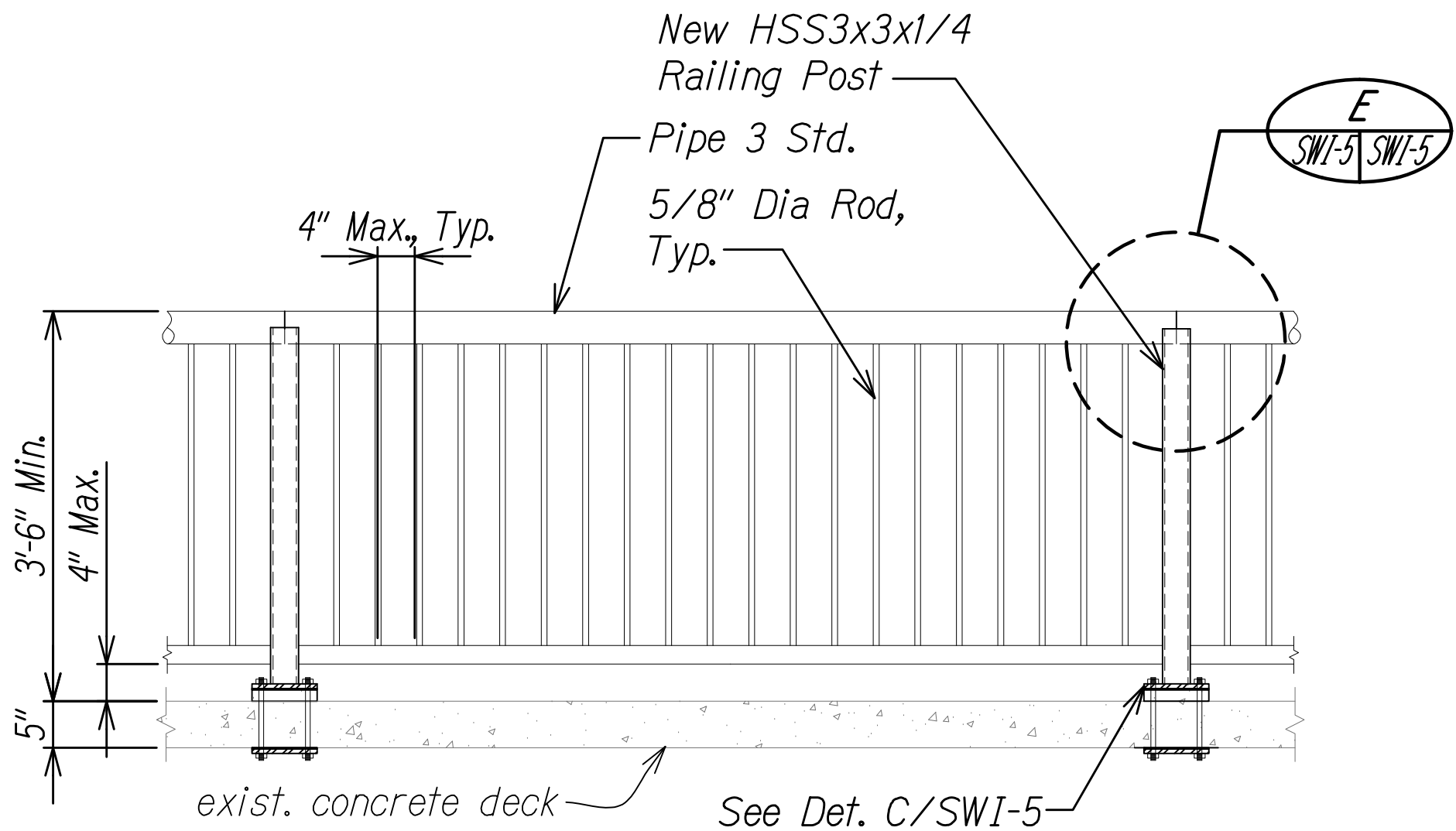
DEMOLITION SECTION A
Scale: 3/4" = 1'-0"



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



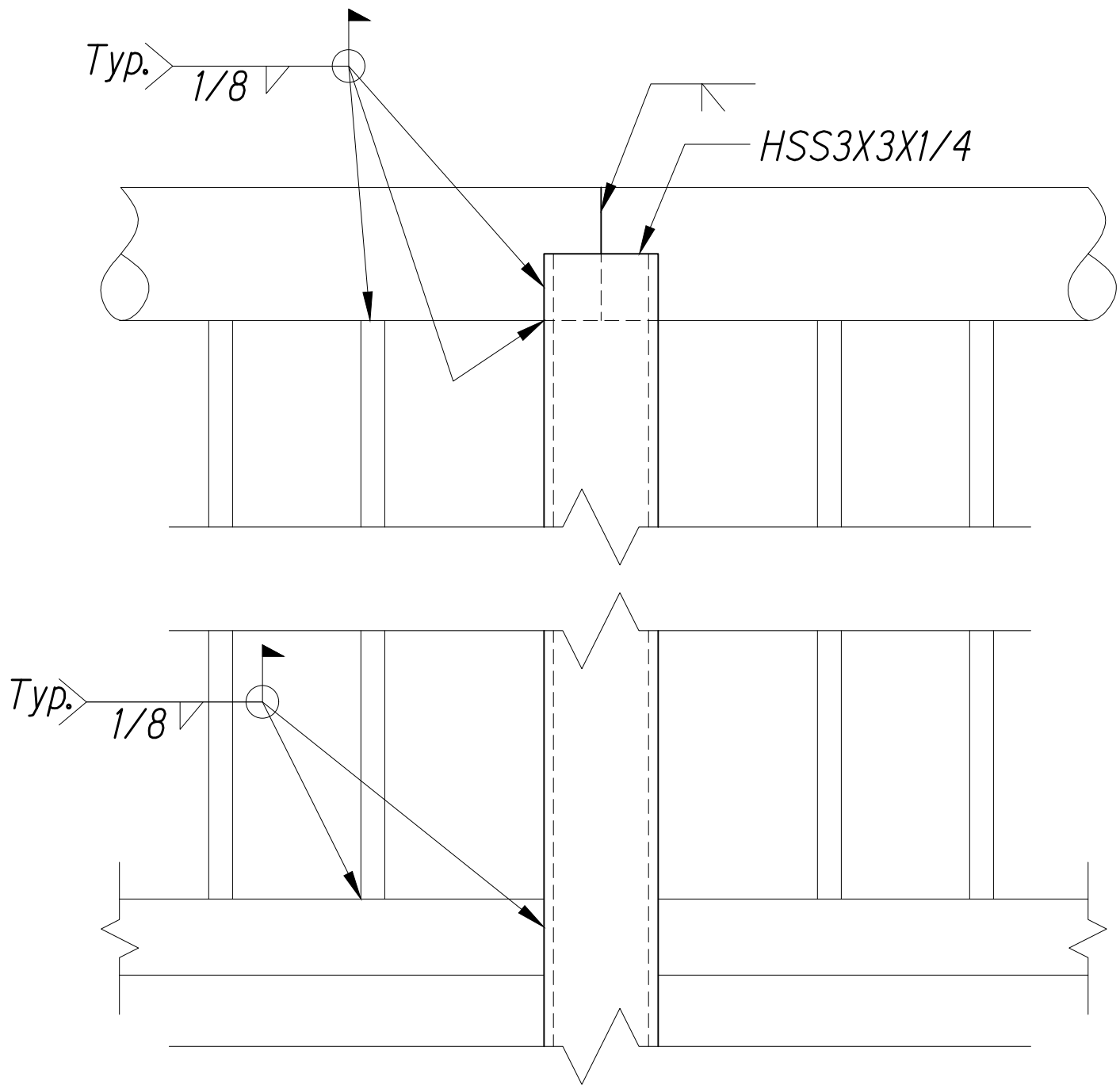
THROUGH-BOLT BASEPLATE DETAIL C
Scale: 1 1/2" = 1'-0"



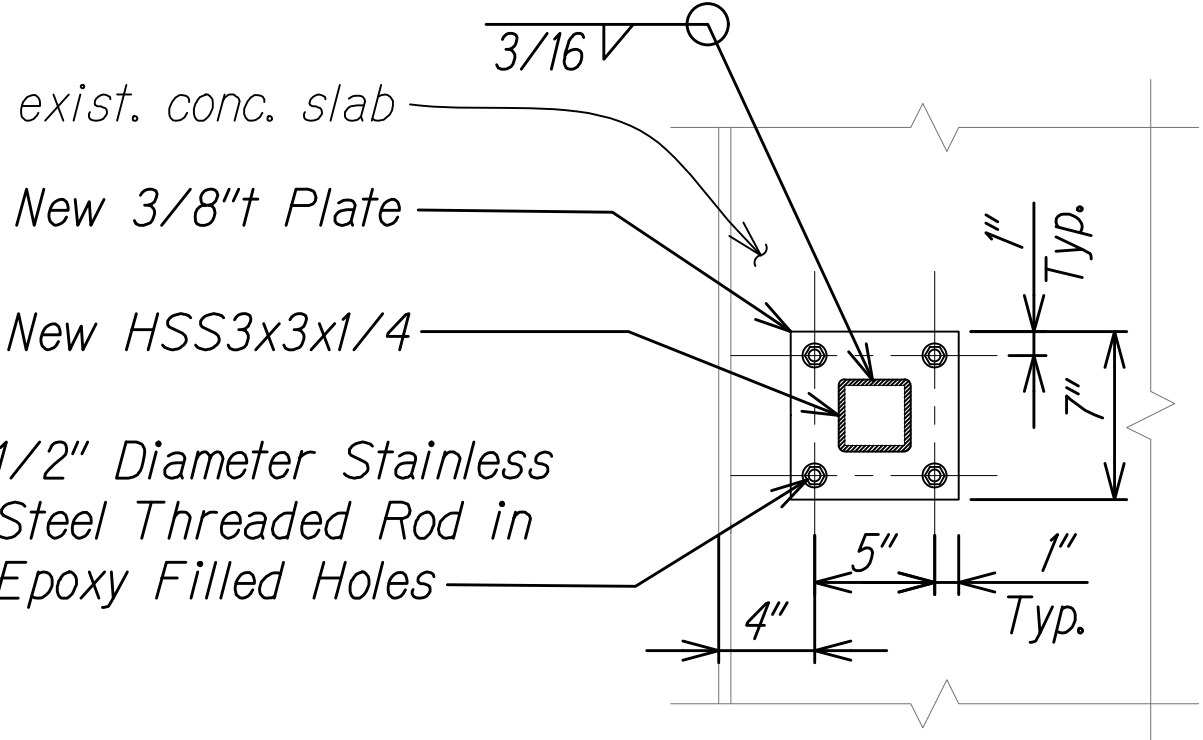
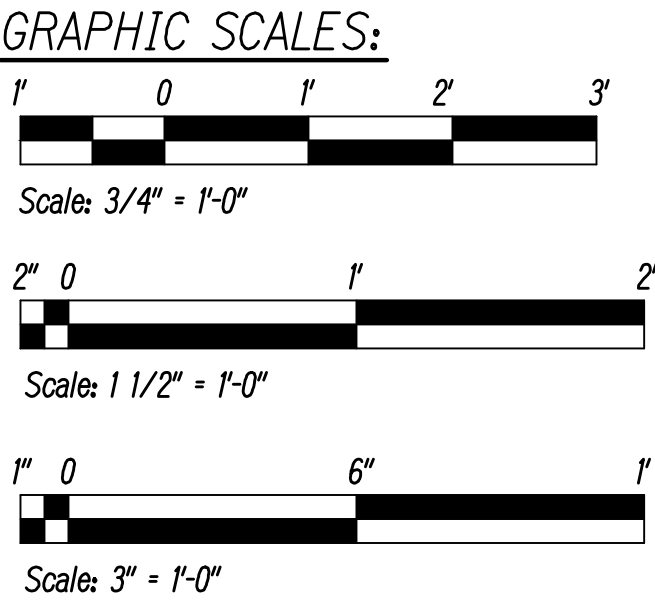
RAILING DETAIL D
Scale: 3/4" = 1'-0"

NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc.
- Grind Smooth All Field Welds.



RAILING DETAIL E
Scale: 3" = 1'-0"



THREADED ROD BASEPLATE DETAIL F
Scale: 1 1/2" = 1'-0"

MYRON G. OKUBO
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Myron Okubo 04/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

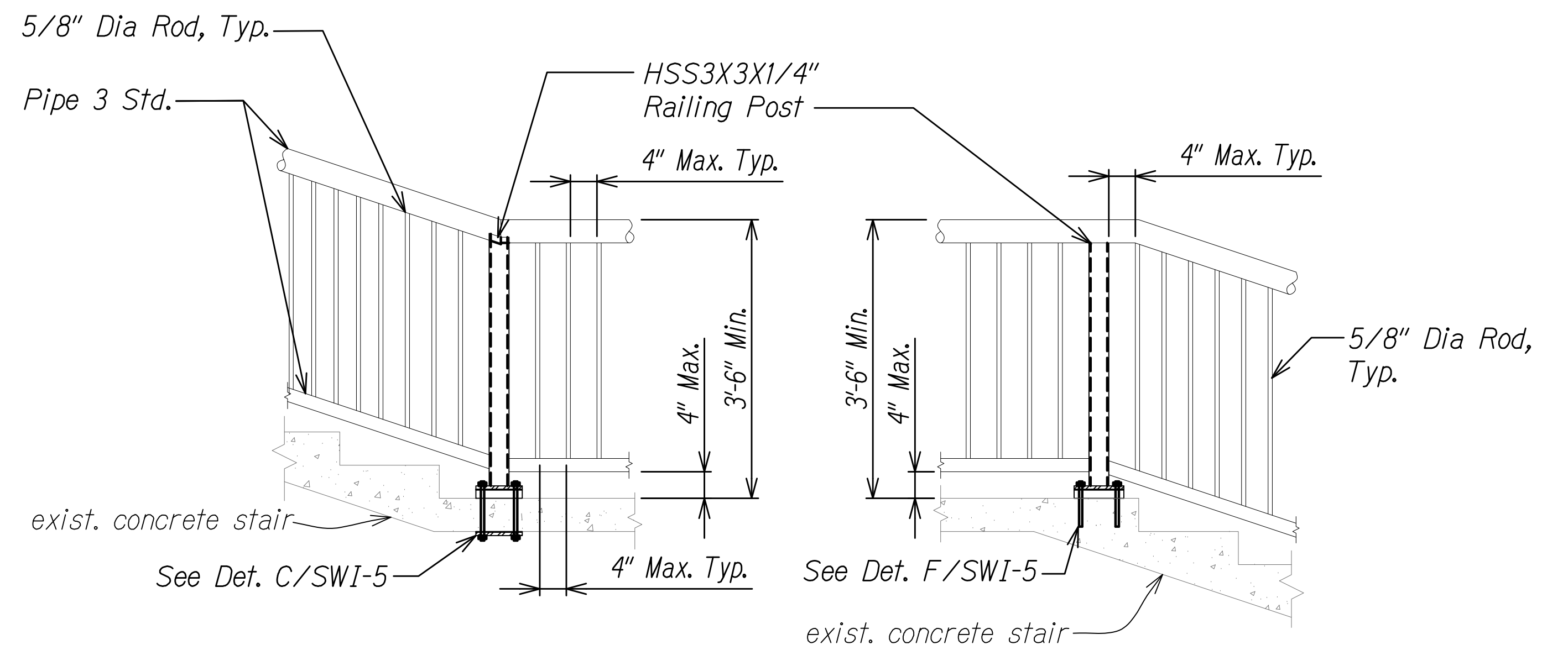
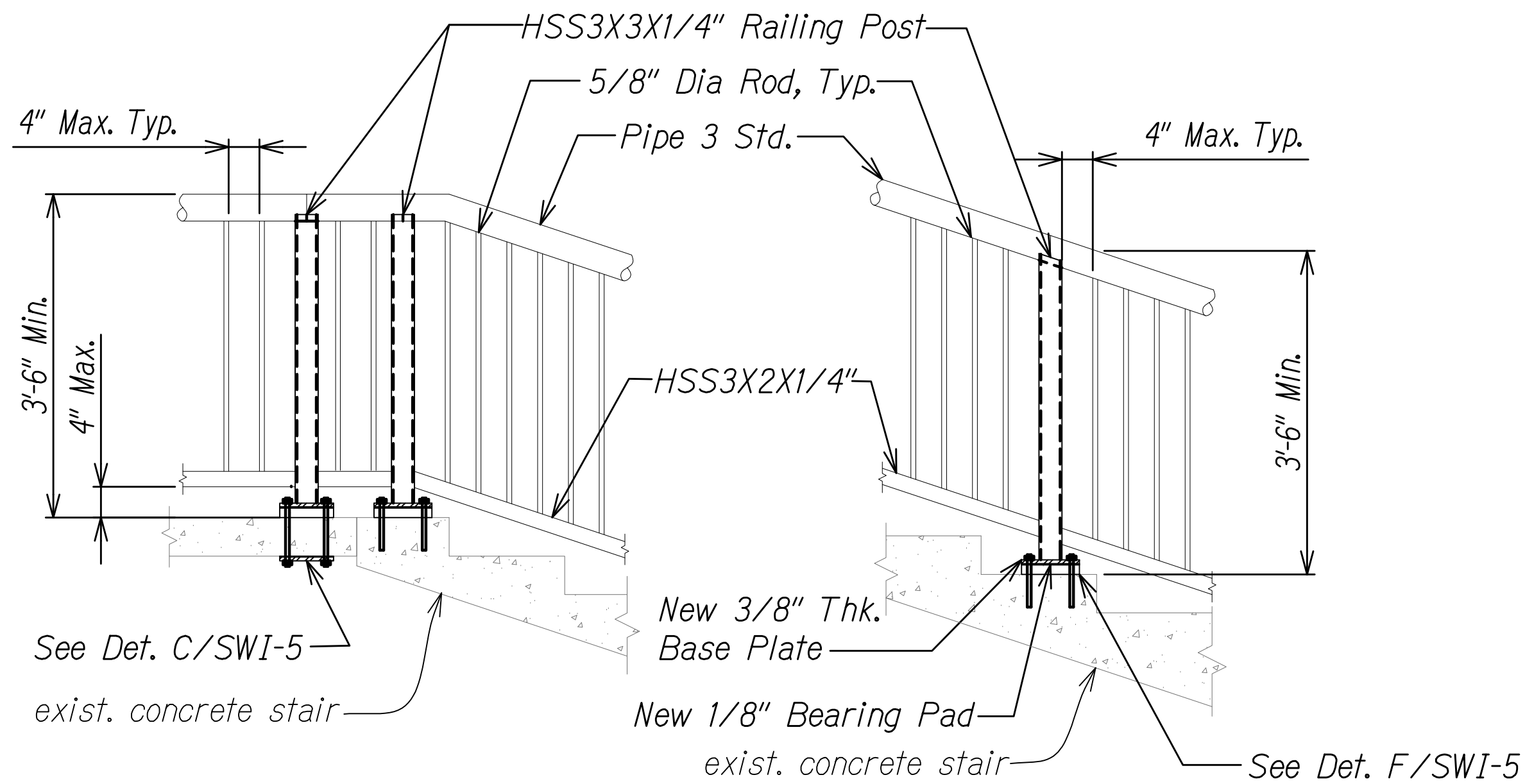
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WILDER AVE. PEDESTRIAN OVER-CROSSING SECTIONS AND DETAILS
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)

Scale: AS NOTED
Date: August 2021

SHEET No. SWI-5 OF 27 SHEETS

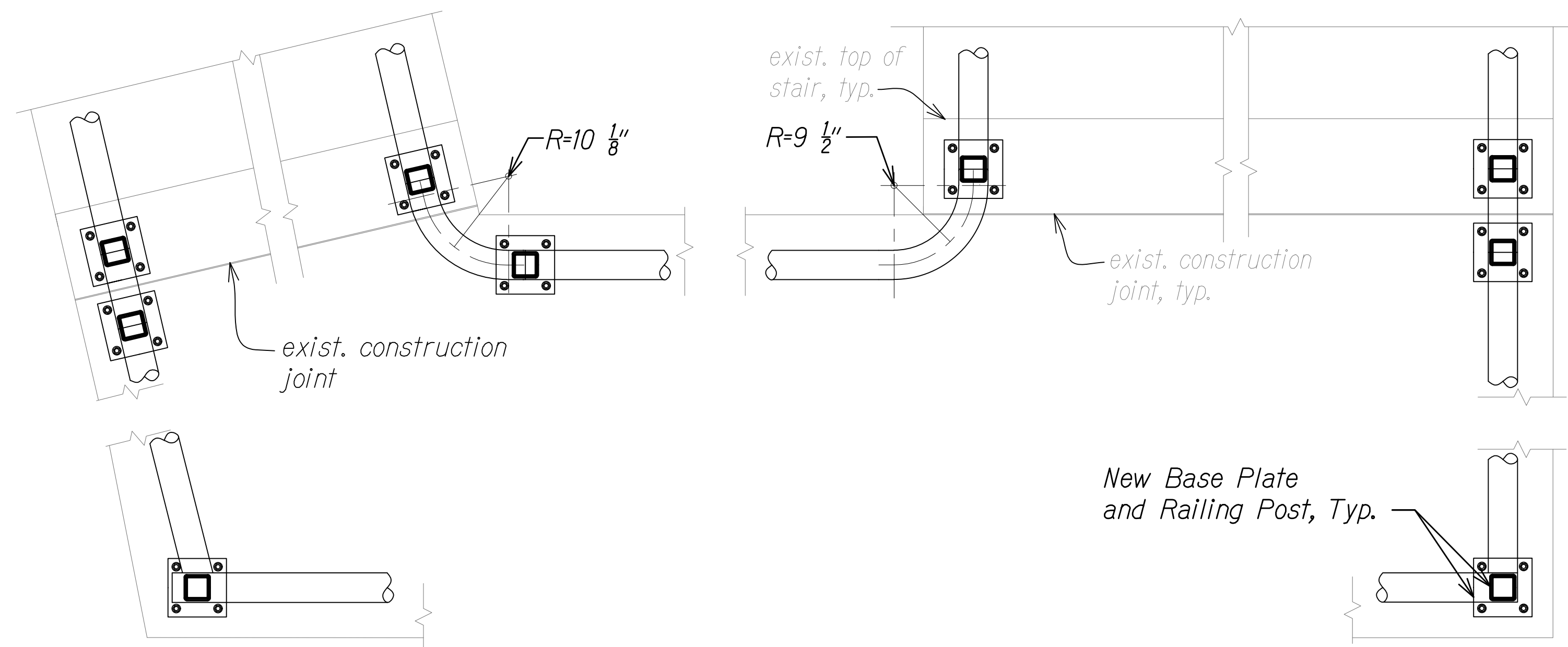
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)	2021	304	304



RAILING SECTION AT STAIRS

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

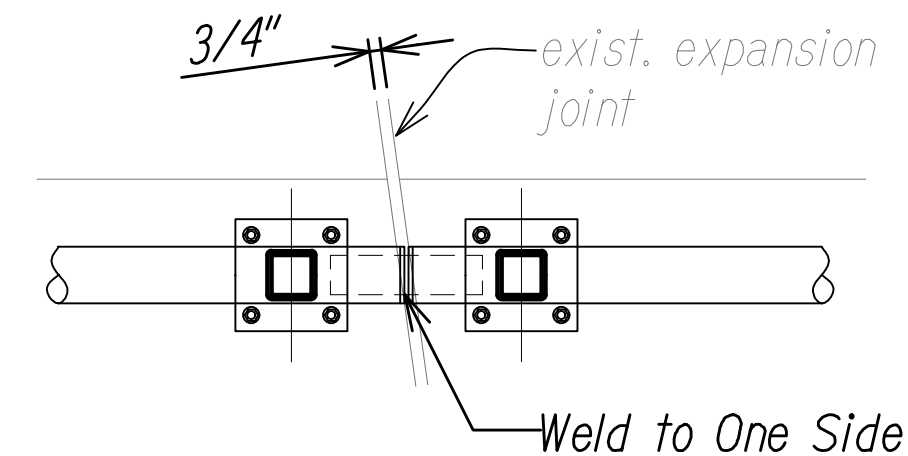
A
SWI-3 SWI-6



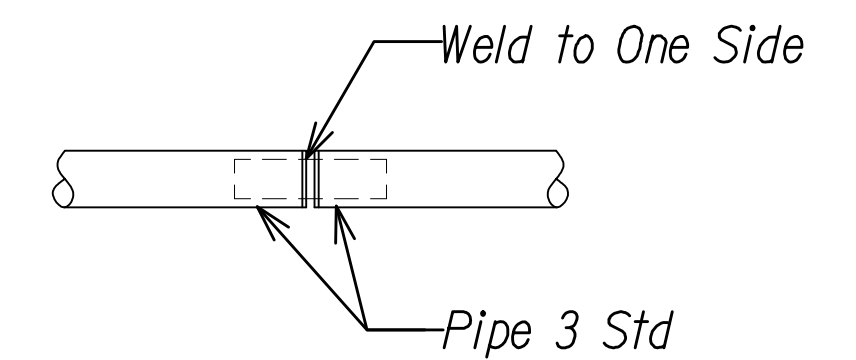
ENLARGED STAIRS RAILING DETAIL

Scale: 1" = 1'-0"

B
SWI-3 SWI-6



BOTTOM CONDITION



TOP CONDITION

PIPE SLEEVE CONNECTION DETAIL AT EXPANSION JOINT

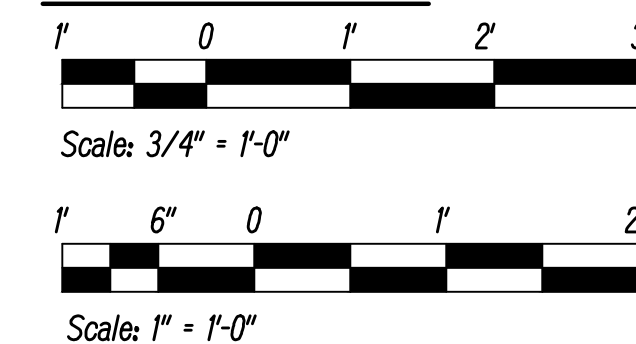
Scale: 1" = 1'-0"

C
SWI-3 SWI-6

NOTES:

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc.
- Grind Smooth All Field Welds.

GRAPHIC SCALES:



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SIGNATURE: Myron Okubo
EXPIRATION DATE OF THE LICENSE: 04/30/22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**WILDER AVE. PEDESTRIAN OVER-
CROSSING SECTIONS AND DETAILS**
INTERSTATE ROUTE H-1 RESURFACING
Miller Pedestrian Overpass to Kapiolani Interchange
Federal-Aid Project No. NH-H1-1(279)
Scale: AS NOTED Date: August 2021
SHEET No. SWI-6 OF 27 SHEETS