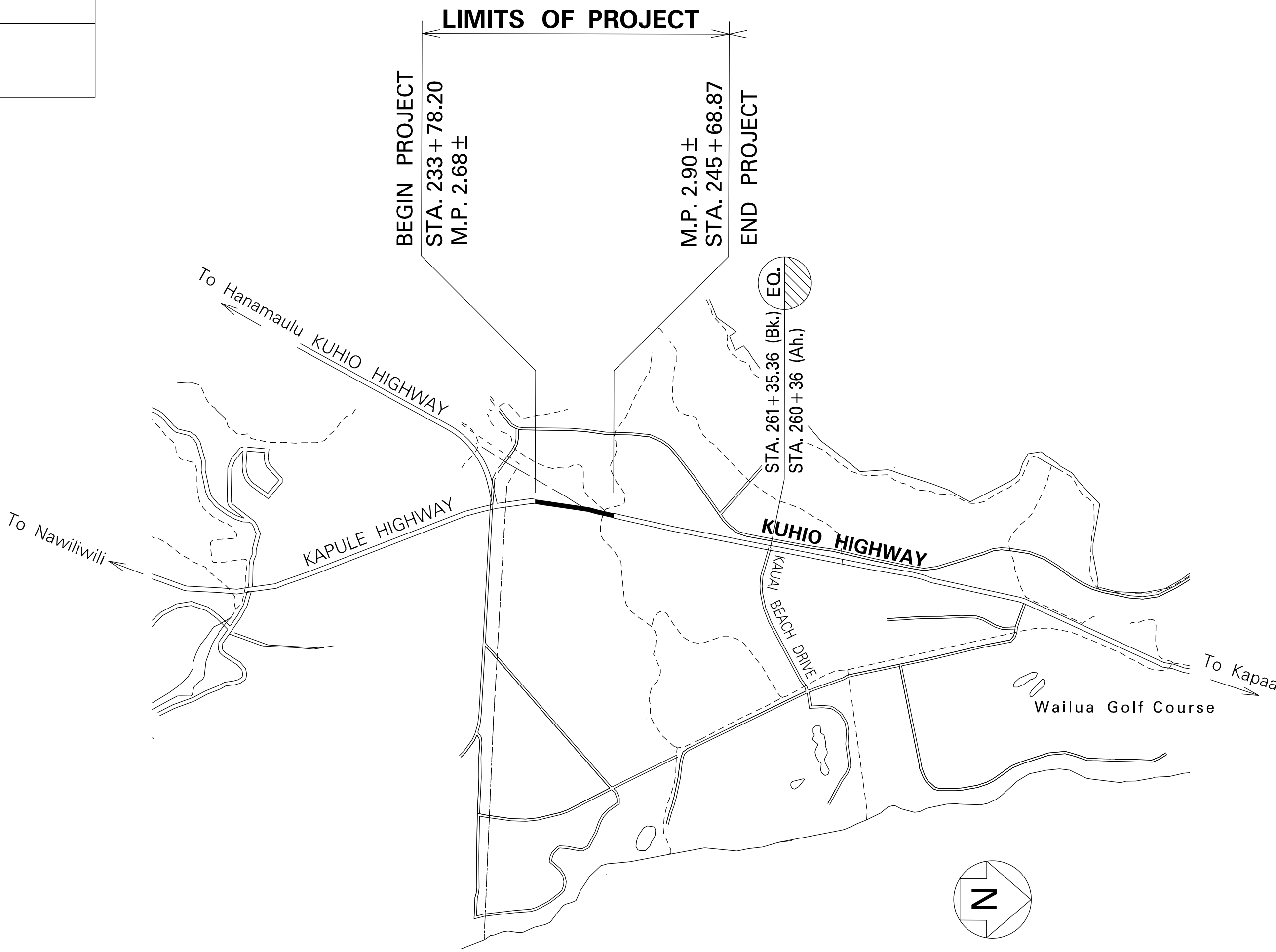


INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STANDARD PLANS SUMMARY
3 – 4	GENERAL NOTES AND LEGEND
5 – 7	WATER POLLUTION, AND EROSION CONTROL NOTES
8 – 9	HISTORIC PRESERVATION, AND ENVIRONMENTAL PROTECTION NOTES
10 – 12	TYPICAL SECTIONS
13	RECONSTRUCTION DETAIL
14	GUARDRAIL DETAILS & NOTES
15	31" W-BEAM GUARDRAIL WITH STANDARD 8" OFFSET BLOCK
16 – 17	MODIFIED TYPE "A-1" FLARE
18	MODIFIED TYPE "A-1" FLARE RUBRAIL DETAILS
19	GENERAL ROADWAY IMPROVEMENT PLAN
20	ROADWAY PLAN
21	PAVEMENT MARKING, NOTES, LEGEND, AND SIGN DETAILS
22	PAVEMENT MARKING, AND TRAFFIC SIGNING PLAN
23	SIGN DETAILS
24 – 27	CROSS SECTION
28	LOW SPEED UNDIVIDED HIGHWAY WORK ZONE SIGNING PLAN, NOTES, AND DETAILS

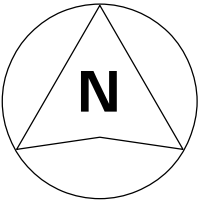
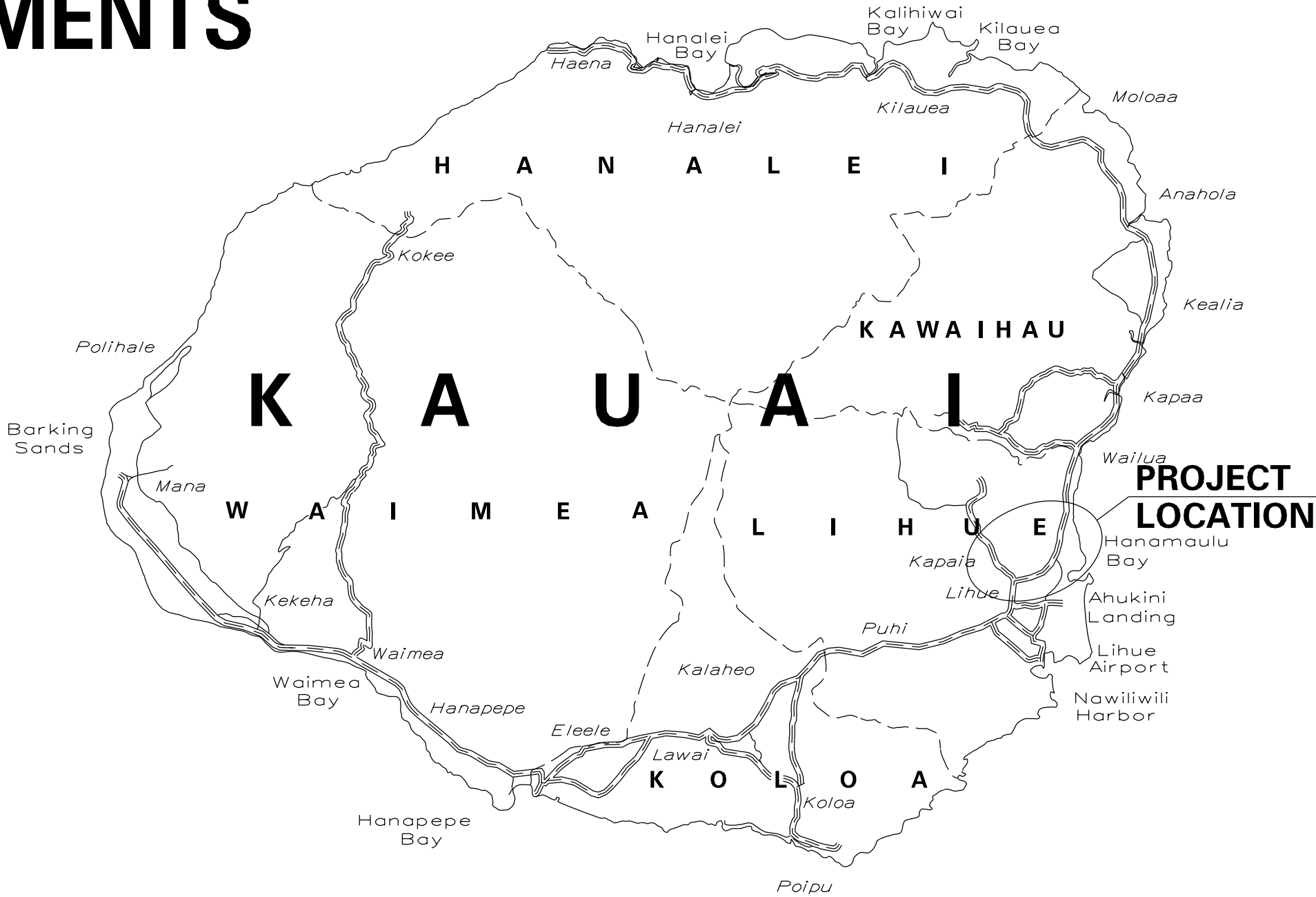
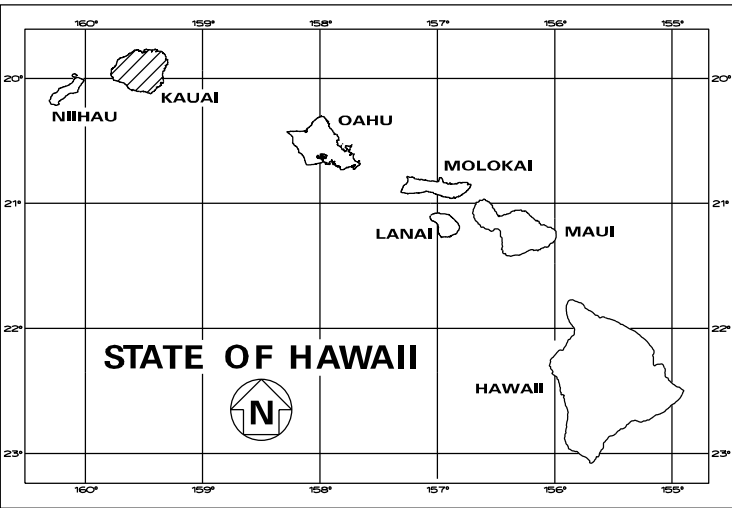
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII
PLANS FOR
**KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
VICINITY OF PINEAPPLE STORE**
PROJECT NO. 56A-03-25
DISTRICT OF AND LIHUE
ISLAND OF KAUAI



LAYOUT PLAN

GROSS LENGTH OF PROJECT.....0.22 MILE
NET LENGTH OF PROJECT.....0.22 MILE

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	1	28



SCALE IN MILES

FEDERAL AID PROJECTS PREVIOUSLY CONSTRUCTED
OR UNDER CONSTRUCTION

MILE POST 2.68 TO MILE POST 2.90

DESIGNED BY
MANAGED BY
PHONE
DATE

DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
HIGHWAYS ADMINISTRATOR	DATE

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	2	28

STANDARD PLANS SUMMARY

STANDARD PLAN NO.	TITLE	DATE
B-01	NOTES & MISCELLANEOUS DETAILS	05/31/07
B-03	BACKFILL DETAILS AT EARTH RETAINING STRUCTURES	05/31/07
B-12	PRESTRESSED CONCRETE PILES & COMPRESSION SPLICE CAN DETAILS	05/31/07
B-12A	PRESTRESSED CONCRETE PILES, PILE & COMPRESSION SPLICE CAN DETAILS & NOTES	05/31/07
B-12B	PILE INTERACTION DIAGRAM	05/31/07
B-13	PRESTRESSED CONCRETE PILE BUILD-UP DETAILS	05/31/07

D-01	CATTLE GATE	05/31/07
D-02	CHAIN LINK FENCE WITH TOPRAIL	05/31/07
D-03	CHAIN LINK FENCE WITHOUT TOPRAIL	05/31/07
D-04	WIRE FENCE WITH METAL POSTS	05/31/07
D-05	TYPICAL DETAILS OF CURBS AND/OR GUTTERS	05/31/07
D-06	TYPICAL DETAIL OF REINFORCED CONCRETE DROP DRIVEWAY	05/31/07
D-07	CENTERLINE AND REFERENCE SURVEY MONUMENTS	05/31/07
D-08	STREET SURVEY MONUMENT	05/31/07
D-15	CONCRETE SIDEWALK	05/31/07
D-16	P.C.C. BUS PAD	05/31/07
D-17	P.C.C. BUS PAD	05/31/07
D-18	P.C.C. PAVEMENT LAYOUT	05/31/07
D-19	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-20	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-21	P.C.C. LONGITUDINAL JOINT DETAILS	05/31/07
D-22	P.C.C. CONNECTION TO CURBS AND GUTTERS	05/31/07
D-23	JOINTS	05/31/07

L-01	-	TREE PLANTING	08/16/06
L-02	-	TREE PLANTING	08/16/06
L-03	-	TREE TRANSPLANTING	08/16/06
L-04	-	PALM PLANTING	08/16/06
L-05	-	SHRUB PLANTING	08/16/06
L-06	-	LANDSCAPE DETAILS	08/16/06
L-07	-	LANDSCAPE DETAILS	08/16/06
L-08	-	LANDSCAPE DETAILS	08/16/06
L-09	-	LANDSCAPE DETAILS	08/16/06
L-10	-	LANDSCAPE DETAILS	08/16/06
L-11	-	PLANTING NOTES	08/16/06
L-12	-	IRRIGATION DETAILS	08/16/06
L-13	-	IRRIGATION DETAILS	08/16/06
L-14	-	IRRIGATION DETAILS	08/16/06
L-15	-	IRRIGATION DETAILS	08/16/06
L-16	-	IRRIGATION DETAILS	08/16/06
L-17	-	IRRIGATION DETAILS	08/16/06
L-18	-	IRRIGATION DETAILS	08/16/06
L-19	-	IRRIGATION DETAILS	08/16/06
L-20	-	IRRIGATION DETAILS	08/16/06
L-21	-	IRRIGATION DETAILS	08/16/06
L-22	-	IRRIGATION DETAILS	08/16/06
L-23	-	IRRIGATION DETAILS	08/16/06
L-24	-	IRRIGATION NOTES	08/16/06

STANDARD PLAN NO.	TITLE	DATE
H-01A	TYPE A CATCH BASIN	05/31/07
H-01B	TYPE B CATCH BASIN	05/31/07
H-01C	TYPE C CATCH BASIN	05/31/07
H-01D	TYPE D CATCH BASIN	05/31/07
H-01E	CATCH BASIN SECTIONS	05/31/07
H-02A	TYPE A1 CATCH BASIN	05/31/07
H-02B	TYPE B2 CATCH BASIN	05/31/07
H-02C	TYPE C1 CATCH BASIN	05/31/07
H-02D	TYPE D1 CATCH BASIN	05/31/07
H-02E	CATCH BASIN SECTION	05/31/07
H-03	TYPE A,B, AND C STORM DRAIN MANHOLE	05/31/07
H-04	TYPE D STORM DRAIN MANHOLE	05/31/07
H-05	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-06	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-07	CATCH BASIN AND MANHOLE CASTINGS	05/31/07
H-08	TYPE 1A-9 AND 1A-9P GRATED DROP INLET	05/31/07
H-09	TYPE 2A-9 AND 2A-9P GRATED DROP INLET	05/31/07
H-10	TYPE A-9 OR A-9P STEEL FRAMES	05/31/07
H-11	TYPE A-9 AND A-9P STEEL GRATES	05/31/07
H-12	TYPE 61614P AND 1211214P GRATED DROP INLET	05/31/07
H-13	TYPE 61616P AND 1211216P GRATED DROP INLET	05/31/07
H-14	TYPE 61214P GRATED DROP INLET	05/31/07
H-15	TYPE 1211214, 1211214P, 1211216, 1211216P STEEL FRAME AND GRATES	05/31/07
H-16	TYPE 61614, 61614P, 61616, 61616P STEEL FRAME AND GRATES	05/31/07
H-17	TYPE 61214 STEEL FRAMES AND GRATES	05/31/07
H-18	TYPE 61214P STEEL GRATES	05/31/07
H-19	TYPE 61614B STEEL FRAME AND GRATES	05/31/07
H-20	CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-21	CONCRETE AND CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-22	INLET/OUTLET STRUCTURE	05/31/07
H-23	INLET/OUTLET STRUCTURE	05/31/07
H-24	FLARED END SECTION FOR CULVERTS	05/31/07
H-25	FLARED END SECTION FOR CULVERTS	05/31/07
H-26	CONCRETE SPILLWAY INLET	05/31/07
H-27	CAP COUPLING DETAILS STANDARD JOINT	05/31/07
H-28	REINFORCED CONCRETE COLLAR & JACKET	05/31/07
H-29	UNDERDRAIN CLEANOUT STEEL FRAME AND COVER	05/31/07
H-30	UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE	05/31/07

TE-01	●	SIGN HEIGHT AND LOCATION	07/11/08
TE-1A	●	SIGN INSTALLATION	07/11/08
TE-02A	●	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02B	●	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02C	●	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-03A	●	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-03B	●	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-04	●	REGULATORY SIGNS	07/11/08
TE-05	·	WARNING SIGNS	07/11/08
TE-06	·	MISCELLANEOUS SIGNS	07/11/08
TE-07	●	CONSTRUCTION SIGNS	07/11/08
TE-08	·	MISCELLANEOUS INTERSECTION SIGNS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-09	BIKE ROUTE SIGN & SUPPLEMENTARY PLATES	07/11/08
TE-10	INTERSTATE ROUTE MARKER	07/11/08
TE-11	STATE ROUTE MARKER AND AUXILIARY MARKERS	07/11/08
TE-12	STATE ROUTE MARKER AND BORDER DETAIL FOR	07/11/08
	GUIDE SIGNS	
TE-12A	ROUTE SIGN ASSEMBLIES	07/11/08
TE-13	STREET NAME SIGN ON MAST ARM	07/11/08
TE-14	MISCELLANEOUS REFLECTOR MARKERS	07/11/08
TE-15	OBJECT MARKERS	07/11/08
TE-16	MILE POSTS	07/11/08
TE-17A	CANTILEVER OVERHEAD SIGN ELEVATION & DETAILS	05/31/07
TE-17B	CANTILEVER SIGN FRAME DETAIL AND SECTION	05/31/07
TE-17C	CANTILEVER SIGN FRAME DETAIL	05/31/07
TE-17D	CANTILEVER SIGN FRAME SECTION	05/31/07
TE-17E	CANTILEVER SIGN FRAME DETAILS	05/31/07
TE-18A	TWO POST OVERHEAD SIGN FRAME ELEVATIONS	05/31/07
TE-18B	TWO POST SIGN FRAMING PLAN SECTION	05/31/07
TE-18C	TWO POST SIGN FRAMING SECTIONS AND DETAILS	05/31/07
TE-18D	TWO POST SIGN FRAME DETAILS	05/31/07
TE-18E	TWO POST SIGN FRAME DETAILS	05/31/07
TE-19A	OVERHEAD SIGN FRAMING SCHEDULE	05/31/07
TE-19B	SIGN POST DRILLED SHAFT FOUNDATION	05/31/07
TE-19C	SPREAD FOOTING	05/31/07
TE-19D	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.1	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.2	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.3	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.4	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.5	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19E	ANCHORAGE DETAILS	05/31/07
TE-19F	ANCHORAGE DETAILS	05/31/07
TE-19G	MISCELLANEOUS SIGN FRAME DETAILS	05/31/07
TE-19H	LUMINAIRE WALKWAY SUPPORT	05/31/07
TE-19J	FIXED MESSAGE LUMINAIRE SUPPORT	05/31/07
TE-19K	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19L	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19M	MISCELLANEOUS SIGN FRAME DETAILS	
TE-20	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20A	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20B	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20C	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-21A	SIGN BREAKAWAY MOUNTS	05/31/07
TE-21B	SIGN BREAKAWAY MOUNTS	05/31/07
TE-22	LAMINATED ALUMINUM SIGN PANELS (OVERHEAD)	05/31/07
TE-23	LAMINATED ALUMINUM SIGN PANELS (GROUND MOUNTED)	07/11/08
TE-24	SOLID ALUMINUM EXTRUDED SIGN PANEL AND	05/31/07
	ACCESSORY DETAILS	
TE-25	GUIDE SIGNS LUMINAIRE MOUNTINGS	05/31/07
TE-26	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-27	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-28	ENTRANCE AND EXIT PAVEMENT MARKINGS	07/11/08
TE-28A	MISCELLANEOUS PAVEMENT MARKINGS	07/11/08
TE-29	PAVEMENT ARROWS AND SYMBOLS	07/11/08
TE-30	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-31	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08
TE-32	TYPE I & II TRAFFIC SIGNAL SYSTEM MISC. DETAILS	05/31/07
TE-33	TYPE II TRAFFIC SIGNAL SYSTEM	08/16/06
TE-33A.1	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-33A.2	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-34	LOOP DETECTOR DETAILS	07/11/08
TE-35	LOOP DETECTORS & DUCT DETAILS	07/11/08
TE-36	TRAFFIC SIGNAL DETAILS	07/11/08
TE-37	PULLBOX & COVER DETAILS	07/11/08
TE-37A	TYPE "A" TRAFFIC PULLBOX	05/31/07
TE-37B	TYPE "A" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37C	TYPE "B" TRAFFIC PULLBOX	05/31/07
TE-37D	TYPE "B" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37E	TYPE "B" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37F	TYPE "C" TRAFFIC PULLBOX	05/31/07
TE-37G	TYPE "C" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37H	TYPE "C" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37J	TRAFFIC PULLBOX COVER AND DETAILS	05/31/07
TE-38	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.1	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.2	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-39	METAL GUARDRAIL CONNECTION TO CONCRETE BARRIER	07/11/08
TE-40	CONCRETE BARRIER TRANSITION	05/31/07
TE-40A	CONCRETE BARRIER TRANSITION SECTIONS	05/31/07
TE-41	GUARDRAIL TYPE 4 (RIGID BARRIER)	05/31/07
TE-42	PORTABLE CONCRETE BARRIER	05/31/07
TE-43	PORTABLE CONCRETE BARRIER	05/31/07
TE-44	GUARDRAIL TYPE 4 MISCELLANEOUS DETAILS	07/11/08
TE-45	BARRICADES	07/11/08
TE-46	DELINEATION & PAVEMENT MARKINGS AT NARROW BRIDGES	07/11/08
TE-47	HIGHWAY LIGHT STANDARD	05/31/07

NOTE :

STANDARD PLANS APPLICABLE TO THIS
PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO.
(FOR EXAMPLE: D-07 ●)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: N/A Date: Dec. 2025

SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY <i>χ</i> _____	<i>χ</i> _____
	TRACED BY _____	• _____
	DESIGNED BY <i>χ</i> _____	• _____
	QUANTITIES BY _____	• _____
NOTE BOOK <i>featherine</i> <i>Whitlipson</i>	CHECKED BY _____	• _____
	N _{o.} _____	_____

GENERAL NOTES

1. The scope of work for this project includes widening of existing roadway to extend left-turn lane and construct storage lane; removing and installing pavement markings and traffic signs; removing and installing asphalt concrete curb and concrete swale; reconstructing grated drop inlet to storm drain manhole; cold planing and resurfacing; hydro-mulch seeding of graded shoulder.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
4. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
5. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting operations.
6. All lanes shall be open to traffic during morning peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours 3:30 PM to 6:30 P.M., and during off work hours. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of rental feess as specified in Section 108.09 - Rental Fees for Unauthorized Lane Closure or Occupancy.

Work shall be performed at night between 8:30 P.M. and 5:00 A.M. of the following day, Sunday through Thursday, excluding holidays. Work outside off these hours are permissible when approved by the Engineer in writing.

The allowable lane closure hours during night work shall be as follows:

Sunday thru Thursday, 8:30 P.M. to 12:00 midnight
Monday thru Friday, 12:00 midnight to 5:00 A.M.

7. All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the requirements of ANSI/ISEA 107-2004, Performance Class 2 or 3. "Workers" is defined as people on foot whose duties place them within the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
8. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. 241-3000.
9. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
10. Prior to construction, the contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans, Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph: 1-866-423-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: 245-5411 and the Wastewater Division, Ph: 241-6642 for toning waterlines and sewerlines respectively.
11. All works of toning, probing, hand digging and all other means of utility verifications shall not be paid for separately, but shall be considered incidental to the various contract items.

12. The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items.
13. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
14. Contractor shall excercise extreme caution to preserve all existing right-of-way centerline, as-built, construction, and NGS (horizontal and vertical in the NGS database) monuments located within the State of Hawaii right-of-way, If monuments are disturbed or destroyed, the Engineer shall be notified. Reconciliation to the Right-of-Way Baseline and/or boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. The Engineer shall be contacted for guidelines and procedures prior to construction.

A State of Hwaii Licensed Surveyor shall perform the location and staking of the reset monument. The DOT Standard Plans and Specifications, with the exception of NGS monuments which shall have a NGS approved "brass disk" marker, shall be referenced for the monument type and materials.

Any NGS vertical monuments that are deemed necessary for relocation due to construction shall follow the NGS benchmark reset procedures written by Curtis Smith dated September 2010 or newer. All work must be done by an electronic digital level that is acceptable by NGS for second-order class one or higher work. The surveyor must use two one-piece invar barcode rods with current certifications with struts with 15 lbs turning plate or turtles; and/or turning pin with driving cap and temperature readings. Contact NGS prior to any work to ensure all equipments meets reset specifications. A State of Hawaii Licensed Surveyor shall perform the relocation. All work must be submitted both in electronic and hard copy formats to NGS and the Engineer.

All monument work shall be considered incidental to this project, unless noted otherwise.

15. No sections where guardrail has been removedshall be left unattended at the end of each work day. Open sections shall be shielded by Portable Concrete Barrier or as directed by the Engineer. For Portable Concrete Barrier details, refer to Standard Plans TE52 and TE-43. Furnishing, installing, and maintenaning of these devices shall be considered incidental to the various contract items and will not be aid separately.
16. All saw cutting work shall be considered incidental to various contract items and will not be paid separately.
17. The Contractor, at his own expense shall hydro-mulch and maintain per Section 641 - Hydro-Mulch Seeding of the HDOT Standard Specification all areas disturbed by his operations.
18. Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.
19. Removal and disposal of existing reflectort marker, steel and/or wood posts, rail elements, and end treatments including concrete foundations, and backfilling of resulting holes shall be considered incidental to the various contract items and will not be paid separately.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	3	28

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
N ^o		

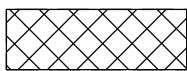
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES AND LEGEND	
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS	
Vicinity of Pineapple Store	
Project No. 56A-03-25	
Scale: N/A	Date: Dec. 2025
SHEET No. 1 OF 2 SHEETS	

GENERAL NOTES (cont.)

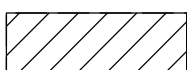
20. Removal and disposal of existing asphalt concrete curb and concrete swale shall be considered incidental to the various contract items and will not be paid separately.
21. Removal and disposal of existing grated drop inlet steel frame and cover, concrete wall and reinforcement bar shall be considered incidental to Pay Item No. 604.0400 - Type "A" Storm Drain Manhole and will not be paid separately.
22. Furnishing and installation of dowel bars w/ dual cartridge epoxy adhesive shall be considered incidental to Pay Item No. 604.0400 - Type "A" Storm Drain Manhole and will not be paid separately.
23. Excavation, removal and disposal of soil from construction of storm drain manhole shall be paid under Item No. 604.0400 - Type A Storm Drain Manhole will not be paid separately.
24. All asphalt concrete materials from cold planing and roadway excavation operations shall become the property of the Contractor. The contractor shall remove and dispose these materials and shall be considered incidental to various contract items and will not be paid separately.
25. Slope protection should be established as soon as cut or fill slope is completed to reduce erosion potential.
26. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance.
27. No Contractor shall perform any grading operations so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourse.
28. No grading work shall be done on Saturdays, Sundays and Holidays.
29. Temporary measures to control erosion and other pollutants shall be placed before any earth moving phase of the grading is initiated. Temporary erosion controls shall not be removed before permanent erosion controls are in placed and established. Temporary erosion control procedures shall be submitted to the Engineer for review and approval. This work shall be considered incidental to various contract items.
30. Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease in the immediate vicinity of the find. The Contractor shall immediately notify the Planning Department and the State Historic Preservation Division at 241-3690, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.
31. All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and Firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
32. The pay limit for MSKT-SP-MGS (TL-3), SoftstopTermial (TL-3), and Max Tension (TL-3) is 50 L.F. in length, which shall be measured from Post 1 of the end terminal. Should the manufactured end terminal be less than 50 L.F. in length, the remaining length shall be considered incidental to the end terminal. All end terminal hardware extending beyond Post 1, such as hardware connecting to Post 0, shall also be incidental to the end terminal.

33. No material or equipment shall be stored within the County Right-of-Way.
34. A Road Permit is required from the County "Department of Public Works" for the construction and warning sign installation within County Right-of-Way. Three (3) sets of the approved plans shall be submitted at the time when the Road Permit is applied for. Road Permit Application can be obtained from County website. Additionally, the applicant will need to provide Certificate of Liability Insurance naming the County as additionally insured. This work shall be considered incidental to various contract items.
35. A Grading Permit is required from the County "Department of Public Works" for the disposal of wasted excavated materials. Disposal site shall comply with the County's Sediment and Erosion Control Ordinances No. 808. This work shall be considered incidental to Item 203.1000 - Roadway Excavation and will not be paid separately.

LEGEND



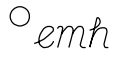
Pavement Widening



Cold Plane



Existing Power Pole



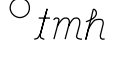
Existing Electric Manhole



Adjusted Elec. MH Frame/Cover



Existing Electric Pullbox



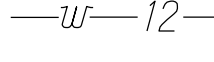
Existing Telephone Manhole



Adjusted Tel. MH Frame/Cover



Existing Telephone Pullbox



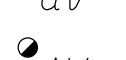
Existing 12" Water Line



Existing Water Manhole



Adjusted Water MH Frame/Cover



Existing Water Air Valve



Adjusted Water Air Valve



Existing Water Valve Box



Adjusted Water Valve Box



Existing Water Meter Box



Adjusted Water Meter Box



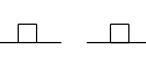
New Type "X" Water Meter Box



Existing Traffic Sign



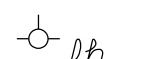
New Traffic Sign



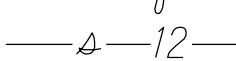
Existing Metal Guardrail



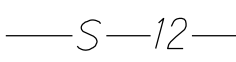
New Metal Guardrail



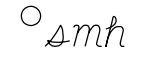
Existing Fire Hydrant



Existing Sewer Line



New 12" Sewer Line



Existing Sewer Manhole



Adjusted Sewer Manhole



New Sewer Manhole



Existing Monument



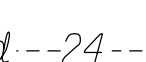
Adjusted Monument



New Monument



Existing 24" Drain Line



Existing Storm Drain Manhole



Adjusted Storm Drain Manhole



Existing Grated Drop Inlet



New Grated Drop Inlet



Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS

Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: N/A Date: Dec. 2025

SHEET No. 2 OF 2 SHEETS

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

1. See Special Provisions Section 209 - Water Pollution and Erosion Control. Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.

2. Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the Best Management Practices (BMP) for the project. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A.2, "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the Storm Water Pollution Prevention Plan (SWPPP) when applicable.

3. Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.

4. The Engineer may assess liquidated damages of up to \$27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.

5. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.

6. If necessary, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.

7. Submit Site-Specific BMP Plan to the Engineer along with a completed Site-Specific BMP Review Checklist within 21 calendar days of date of award. The Site-Specific BMP Review Checklist may be obtained from <http://www.stormwaterhawaii.com>.

B. WASTE DISPOSAL:

1. Waste Materials
Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster weekly or when the container is two-thirds full, whichever is sooner. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 21 calendar days of date of award. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed.

2. Hazardous Waste
Dispose all hazardous waste materials in the manner specified by local or State regulations and by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.

3. Sanitary Waste
Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.

2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.

3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.

4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.

5. Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.

6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.

7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.

8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.

9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.

10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.

11. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	5	58

ORIGINAL PLAN	SURVEY PLOTTED BY _____				DATE
	DRAWN BY <u>X</u>				<u>12/23/21</u>
NOTE BOOK <u>rel. borne</u> <u>9th/10th/11th/12th</u>	TRACED BY _____				*
	DESIGNED BY <u>X</u>				*
	QUANTITIES BY _____				*
	CHECKED BY _____				*
	N ^o . _____				

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: N/A
Date: Dec. 2025

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.

13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.

14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. Materials Pollution Prevention Plan

a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

Concrete	Cleaning Solvents
Detergents	Wood
Paints (enamel and latex)	Masonry Block
Metal Studs	Herbicides and Pesticides
Tar	Curing Compounds
Fertilizers	Adhesives
Petroleum Based Products	

- b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- d. Keep products in their original containers with the original manufacturer's label.
- e. Do not mix substances with one another unless recommended by the manufacturer.
- f. Whenever possible, use a product up completely before disposing of the container.
- g. Follow manufacturer's recommendations for proper use and disposal.
- h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

- a. Keep products in original containers unless they are not resealable.
- b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
- c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.

3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

- a. Petroleum Based Products:
Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.

b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

4. Spill Control Plan

- a. Post a spill prevention plan to include measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.
- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at (808) 586-4309, and the Hawaii State Hospital Operator at (808) 247-2191 and the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	6	28

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/23/21
Relating	DESIGNED BY	
No. 04/19/2022	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>WATER POLLUTION & EROSION CONTROL NOTES</u>		
<u>KUHIO HIGHWAY INTERSECTION IMPROVEMENTS</u>		
<u>Vicinity of Pineapple Store</u> <u>Project No. 56A-03-25</u>		
Scale: N/A	Date: Dec. 2025	
SHEET No. 2 OF 3 SHEETS		

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. A National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities of one acre or more of disturbed area is required for this project. If the Contractor requires extra land disturbance, including staging and storage areas, that is not covered by the NPDES Permit obtained by the State, the Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit to cover this additional disturbed area. See Hawaii Administrative Rules Chapter 11-55, Appendix C for definition of land disturbance. The Contractor's attention is directed to the applicable NPDES Permit documents on the bid package compact disc.

- a. Deadlines for initiating and completing initial stabilization
- b. Increased inspection frequency and installation of rain gage if applicable
- c. Deadlines to initiate and complete repairs to BMPs
- d. Reporting requirements and corrective action reports

2. Comply with all applicable State and Federal Permit conditions. Permits may include, but not limited to the following:

- a. NPDES Permit for Construction Activities
- b. NPDES Permit for Construction Dewatering
- c. NPDES Permit for Hydrotesting Waters
- d. Water Quality Certification
- e. Stream Channel Alteration Permit
- f. Section 404 Army Corps of Engineer Permit

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/> under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-1).
2. Contain on-site runoff using Perimeter Sediment Controls
 - a. SC-7 Silt Fence or Filter Fabric Fence
 - b. SC-2 Vegetated Filter Strips and Buffers
 - c. SC-6 Compost Filter Berm/Sock
 - d. SC-8 Sandbag Barrier
 - e. SC-9 Brush or Rock Filter
3. Control offsite runoff from entering construction area
 - a. EC-3 Run-On Diversion
 - b. EC-6 Earth Dike, Swales, and Ditches
4. Incorporate applicable Site Management BMP
 - a. SM-1 Employee Training
 - b. SM-2 Material Storage and Handling
 - c. SM-3 Stockpile Management
 - d. SM-6 Solid Waste Management
 - e. SM-7 Sanitary Waste Management
 - f. SM-9 Hazardous Materials and Waste Management
 - g. SM-10 Spill Prevention and Control
 - h. SM-11 Vehicle and Equipment Cleaning
 - i. SM-12 Vehicle and Equipment Maintenance
 - j. SM-13 Vehicle and Equipment Refueling
 - k. SM-14 Scheduling
 - l. SM-15 Location of Potential Sources of Sediment
 - m. SM-16 Staging Area
 - n. SM-17 Preservation of Existing Vegetation
 - o. SM-19 Dust Control
5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (SC-11) for all areas which exit onto a paved street. Restrict vehicle access to these points.
6. Manage Concrete Waste including installing a Concrete Washout Area (SM-4) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).
7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	7	28

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/23/21
re: 10/10/21	DESIGNED BY	
No. 10/10/21	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS

Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: N/ADate: Dec. 2025

SHEET No. 3 OF 3 SHEETS

HISTORICAL PRESERVATION NOTES

- A. If cultural materials such as artifacts, burials, concentrations of shell or charcoal be discovered during construction, all earth-moving activity within and around the immediate discovery area shall cease immediately and the find shall be protected from further damage. The Contractor shall immediately notify the Planning Department and the State Historic Preservation Division at (808) 241-3690, which will assess the significance of the find and recommend appropriate mitigation measures, if necessary.
- B. If previously unidentified non-burial historic properties, or unanticipated effects are discovered, the Contractor shall follow the Hawaii Administrative Rules (HAR) Chapter 13-280 "Rules Governing General Procedures for Inadvertent Discoveries of Historic Properties During a Project Covered by the Historic Preservation Review Process".
- C. If human remains are discovered, HAR Title 13, Subtitle 13, Chapter 300 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains and the State Historic Preservation Division and the Police Department will be contacted. The appropriate process would then proceed in conformance with HAR Section 13-300, Subchapter 4, "Procedures for Proper Treatment of Burial Sites and Human Skeletal Remains".
- D. The perimeter of the earthen ditch at Bridge 7E shall be avoided and appropriately protected with Construction Fencing a minimum of two meters (6'-6") from the top of the ditch for the duration of the project to avoid impacts that may result from signpost drivers during the installation of object and reflector markers. The installation, maintenance and removal of the protective fencing shall be the responsibility of the Contractor. Payment shall be incidental to various pay items and not paid for separately.
- E. The Contractor shall provide photographs of the installation of the Construction Fence to HDOT prior to the start of construction of the project. Each photograph shall be described and presented together in an organized format.

- MAMMALIAN PROTECTION NOTES - Hawaiian Hoary Bat

- A. *The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to the Hawaiian hoary bat:*
 1. *There shall be no disturbance, removal, or trimming of woody plants greater than 15 feet (4.6 meters) tall during the Hawaiian Hoary bat birthing and pup rearing season (June 1 through September 15).*
 2. *Barbed wire shall not be used for fencing.*
- AVIAN PROTECTION NOTES - Hawaiian Seabirds
- A. *The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to Hawaiian seabirds (Hawaiian petrel, Newell's shearwater and Hawaii DPS of the band-rumped storm-petrel):*

AVIAN PROTECTION NOTES - Hawaiian Seabirds

- A. *The Contractor shall incorporate the following measures to avoid and minimize project-related adverse effects to Hawaiian seabirds (Hawaiian petrel, Newell's shearwater and Hawaii DPS of the band-rumped storm-petrel):*
- 1. Before beginning any work at the project site, the Contractor shall:*
 - a. Collect information regarding the protection of seabirds and seabird fallout.*
 - b. Submit to the Engineer for acceptance a protection of seabirds training plan including a detailed description of information and materials the Contractor intends to use in the training classes. The training plan shall be submitted to the Engineer for acceptance at least 15 days in advance of the class. If the Engineer rejects the training plan, the Contractor shall revise and promptly propose another training plan.*

AVIAN PROTECTION NOTES - Hawaiian Seabirds (cont.)

- c. Dissemination information regarding the protection of seabirds and seabird fallout by conducting training classes for all employees, subcontractors, suppliers and other personnel working on the, including HDOT personnel, on such topics as the "Save Our Shearwater" (SOS) program, proper use of temporary lighting, procedures to store and report downed seabirds, and the consequences of non-compliance with the laws regarding threatened and endangered seabirds. The Engineer may request for additional topics related to seabirds to be included in the training classes. Training classes shall be taught by authorized representatives of the U.S. Fish and Wildlife Service (USFWS), the Department of Land and Natural Resources, the SOS program or other qualified personnel accepted by the Engineer.
 - d. Furnish the Engineer with evidence that the Contractor has held held training classes, including the dates of the classes, identify who conducted the training, and the content and nature of the training.
- B. The Contractor shall comply to the following construction requirements:
1. As directed by the Engineer, conduct additional training classes during the project to update all employees, subcontractors, suppliers, HDOT personnel and other personnel on new and/or updated information regarding the protection of seabirds and seabird fallout.
 2. No permanent streetlights shall be installed as part of the project.
 3. All temporary lights used for night work (between sunset and sunrise) shall contain less than 2% wavelengths less than 550 nm, and shall be downward-facing and shielded so the bulb can only be seen from below. Temporary lights shall include but are not limited to flood lights, light towers, lights for construction equipment and other lights as determined by the Engineer. All traffic control devices, including warning lights, arrow boards, portable changeable message signs and other lighting device as determined by the Engineer shall be shielded.
 4. Lights shall be turned off when human activity is not occurring in the lighted area, or install automatic motion sensor switches and timer controls on all outdoor lights.
 5. Nighttime construction and the use of all temporary lights shall cease during the peak seabird fledgling period (September 15 through December 15).
 6. Where fences extend above vegetation, integrate durable scare tape or bird deterrent into the fence to increase visibility and minimize fence strikes.
 7. For powerlines and other cables, exposure above vegetation height and vertical profile shall be minimized. NOTE: The height of the 3 - each telephone poles to be relocated shall not increase.
 8. Furnish and maintain a small (approximately 10" x 12" x 19"), portable cat kennel on site to temporarily hold a downed seabird. The Contractor shall obtain acceptance of the cat kennel from the Engineer prior to use.
 9. If a downed dead seabird is found, the Contractor shall contact the USFWS (Ms. Megan Laut at (808) 792-9400, the Kauai Branch Division of Forestry and Wildlife (DOFAW) Office at (808) 274-3433 or SOS at (808) 635-5117 within 24 hours.

AVIAN PROTECTION NOTES - Hawaiian Seabirds (CONT.)

10. *If the downed seabird is alive, the Contractor shall:*
 - a. *Pick up the seabird from behind as soon as possible using a clean towel, t-shirt or cloth by gently wrapping it around its back and wings.*
 - b. *Place the seabird in the cat kennel and immediately contact the SOS Program Coordinator at 808-635-5117 for further instructions on where to deliver the seabird.*
 - c. *Deliver the seabird to the location determined by the coordinator of the SOS program and as directed by the Engineer.*
 - d. *Keep the seabird in a cool, quiet location and out of direct sunlight with adequate ventilation.*
 - e. *The Contractor and any personnel on-site shall not feed, provide water, handle or release the seabird.*
11. *The Contractor shall maintain records of all downed seabirds for the duration of the project. The records shall include the date, time, location and condition (dead or alive) the seabird was found and delivered. Submit a copy of the records to the Engineer after finding each and every downed seabird.*

AVIAN PROTECTION NOTES - Hawaiian Waterbirds

- A. *The Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to Hawaiian waterbirds (Hawaiian stilt, Hawaiian coot, Hawaiian common gallinule, and the Hawaiian duck):*
- 1. In areas where known presence of Hawaiian waterbirds occurs, post, implement and enforce reduced speed limits, and inform project personnel and Contractors of the presence of these endangered species on-site.*
 - 2. If water resources are located within or adjacent to the project site, incorporate USFWS Recommended Standard Best Management Practices (BMPs) for work in aquatic environments.*
 - 3. Where appropriate habitat occurs within the vicinity of the project area, survey for Hawaiian waterbirds and nests prior to initiation of project work using survey biologists familiar with the species' biology. Survey biologists should be trained and capable of identifying adults and juveniles of each species, nesting behaviors, and nests. Repeat surveys again within three (3) days of project initiation and after any subsequent delay of work of 3 or more days (during which the birds may attempt to nest).*

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>HISTORIC PRESERVATION AND</u> <u>ENVIRONMENTAL PROTECTION NOTES</u> <u>KUHIO HIGHWAY INTERSECTION IMPROVEMENTS</u> <i>Vicinity of Pineapple Store</i> <i>Project No. 56A-03-25</i> Scale: N/A Date: Dec. 2005
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	9	28

AVIAN PROTECTION NOTES - Hawaiian Waterbirds (cont.)

4. *If a nest or active brood is found, the Contractor shall:*
 - a. *Contact the USFWS (Ms. Megan Laut at (808) 792-9400, the Kauai Branch Division of Forestry and Wildlife (DOFAW) Office at (808) 274-3433 or SOS at (808) 635-5117 within 24 hours.*
 - b. *Establish and maintain a 100-ft buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.*
 - c. *A biological monitor that is familiar with the species' biology shall be present on the project site during all construction or earth moving activities until the chicks/ducklings fledge to ensure that Hawaiian waterbirds and nests are not adversely affected.*

AVIAN PROTECTION NOTES - Hawaiian Goose

- A. *The Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to Hawaiian goose or nene:*
- 1. Nene in or near the project area shall not be approached, fed, or disturbed in any way.*
 - 2. If nene are observed loafing, foraging, or otherwise present within the project area during the breeding season (September 1 through April 30), a trained biologist familiar with nene nesting behavior shall survey the area in and around the project area for nests prior to work each day. Surveys shall be repeated after any subsequent delay of work of three or more days (during which the birds may attempt to nest).*
 - 3. If a nest is identified within a radius of 150 feet of the project area, or a previously undiscovered nest is found within the 150-foot radius after work begins, all work shall cease immediately and the Contractor shall contact the USFWS (Ms. Megan Laut at (808) 792-9400) or the Kauai Branch DOWA Office at (808) 274-3433 for further guidance.*
 - 4. Reduced speed limits shall be posted and implemented in areas where nene are known to be present, and project personnel and Contractors will be informed of the presence of endangered species on-site.*
 - 5. There shall be no feeding of birds or dogs on the project site.*

AVIAN PROTECTION NOTES - Hawaiian Short-Eared Owl

- A. *The Contractor shall incorporate the following measures to avoid and minimize adverse effects to the Hawaiian Short-Eared Owl or pueo:*
 1. *If pueo are observed loafing, foraging, or otherwise present within the project area, conduct a line survey during crepuscular hours through the project area prior to any vegetative alteration, especially ground-based disturbance.*
 2. *If a pueo nest is discovered, establish and maintain a minimum buffer of 350 feet around the nest until the chicks are capable of flight.*

BIOLOGICAL RESOURCE PROTECTION NOTES

- A. *The Contractor shall take measures to reduce the spread of invasive species (e.g. Rapid Ohia Death, Coffee Leaf Rust, Little Fire Ants, False Kava, etc.):*
- 1. Minimize the movement of plant or soil material between work sites.*
 - 2. All equipment, materials, and personnel should be cleaned of excess soil and debris to minimize the risk of spreading invasive species. Gear that may contain soil, such as work boots and vehicles, should be thoroughly cleaned with water and sprayed with 70 1/4 alcohol solution to prevent the spread of Rapid Ohia Death and other harmful fungal pathogens.*
 - 3. Consult with the Kauai Invasive Species Committee (KISC) at (808) 821-1490 to learn of any high-risk invasive species in the area and ways to mitigate their spread during construction.*
 - 4. The information and guidance at <https://cms.ctahr.hawaii.edu/rod> shall be reviewed and followed if ohia trees are present and will be removed.*
- B. *In accordance with the Hawaii Department of Agriculture (HDOA) approved Plant Quarantine Interim Rule 22-1, the Contractor shall restrict the movement of Coconut Rhinoceros Beetle (CRB) host material within or to and from the island of Oahu, which is defined as the Quarantine Area.*
- 1. Regulated material (host material or host plants) is considered a risk for potential CRB infestation.*
 - a. Host material for the beetle specifically includes: entire dead trees, mulch, compost, trimmings, fruit and vegetative scraps and decaying stumps*
 - b. Host plants include the live palm plants in the following genera: Washingtonia, Livistonia and Pritchardia (all commonly known as fan palms), Cocos (coconut palms), Phoenix (date palms) and Roystonea (royal palms)*
 - 2. When such material or these specific plants are moved, there is a risk of spreading CRB because they may contain CRB in any life stage. Refer to the following website for more information regarding CRB: <https://dlnr.hawaii.gov/hisc/info/invasive-species-profiles/coconut-rhinoceros-beetle/>*

WILDFIRE PROTECTION NOTES:

- A. *The Contractor shall incorporate the following measures to reduce the risk of starting a wildfire:*
- 1. When engaging in activities that have a high risk of starting a wildfire (e.g. welding in grass), wet down the area before starting your task and continuously wet down the area as needed.*
 - 2. When vision is impaired, such as when using eye protective gear for welding, use a spotter to watch for fire starts.*
 - 3. A fire extinguisher shall always be on hand when engaging in activities that pose a high risk of starting a wildfire.*
 - 4. For project specific action regarding how wildfire prevention can be addressed, coordinate with the Hawaii Wildfire Management Organization at (808) 850-0900 or admin@hawaiiwildfire.org.*

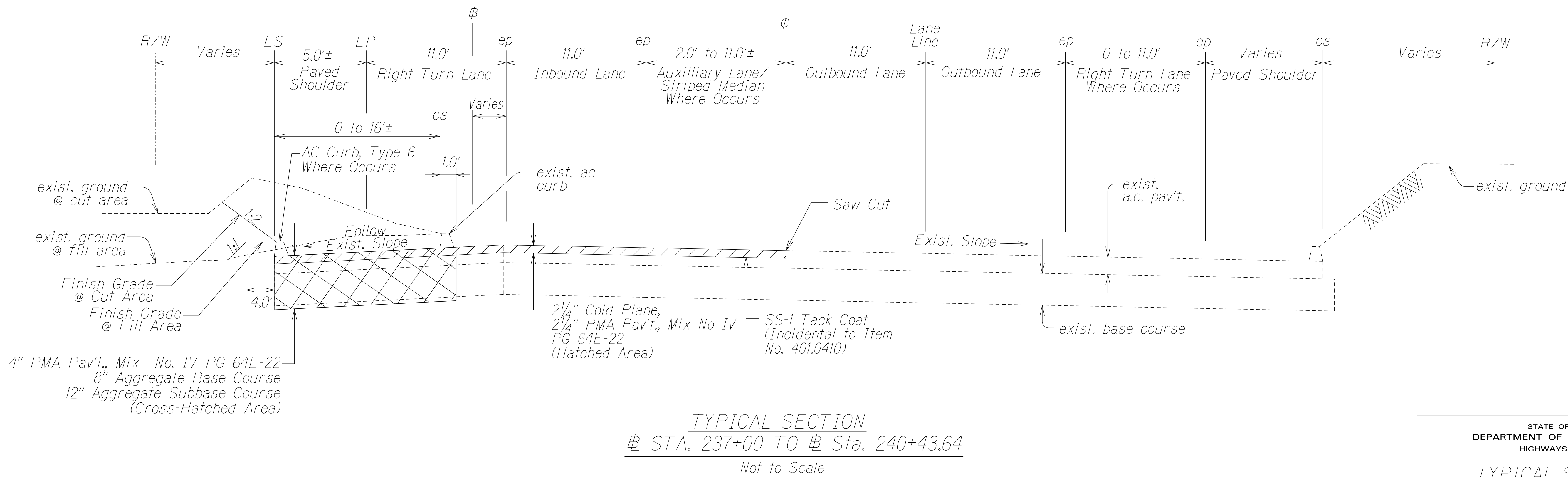
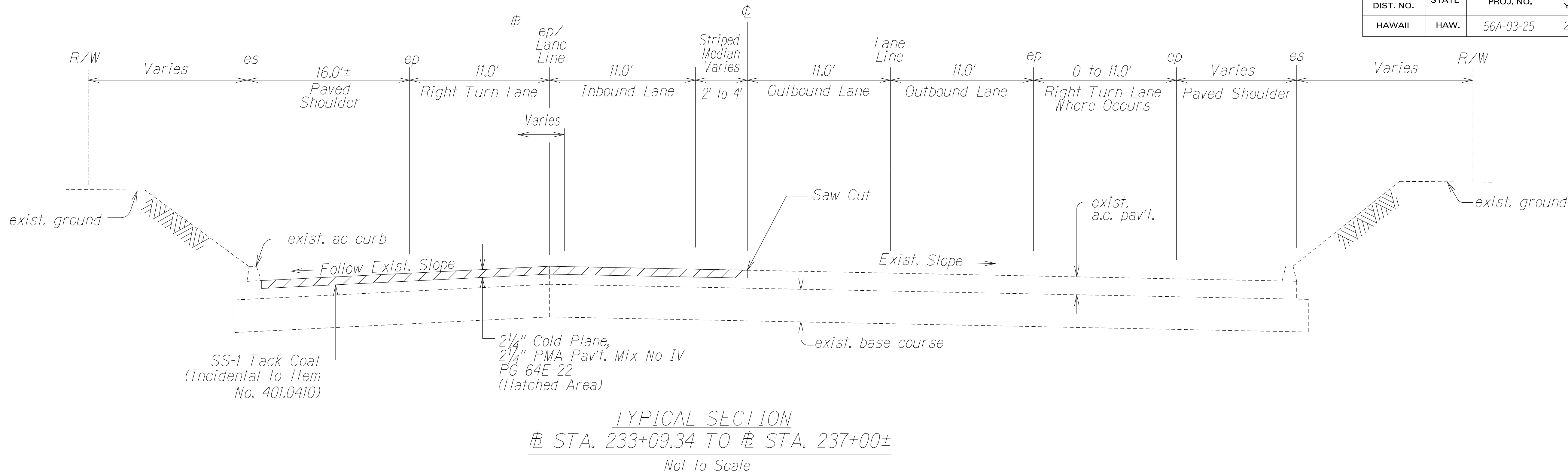
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NOTE BOOK	DRAWN BY χ	_____
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	QUANTITIES BY _____	_____
	CHECKED BY _____	_____
No. _____		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HISTORIC PRESERVATION AND
ENVIRONMENTAL PROTECTION NOTES
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: N/A Date: Dec. 2025

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	10	28



Note: Install erosion control matting and hydro-mulch at all finish grade.

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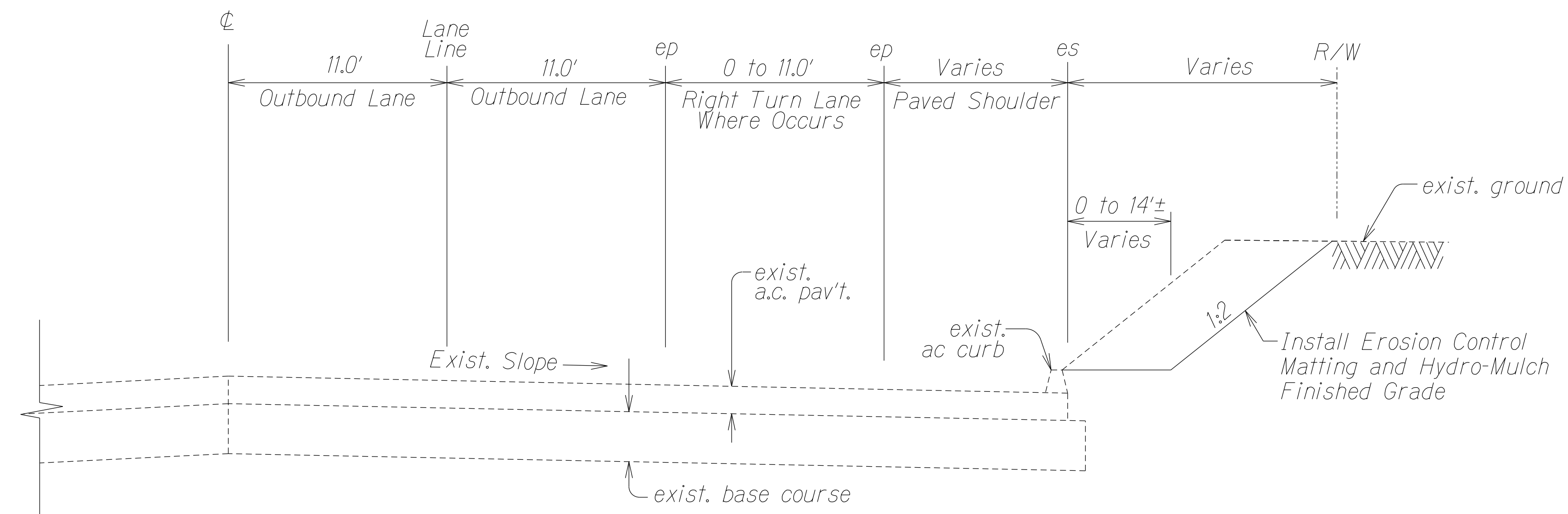
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

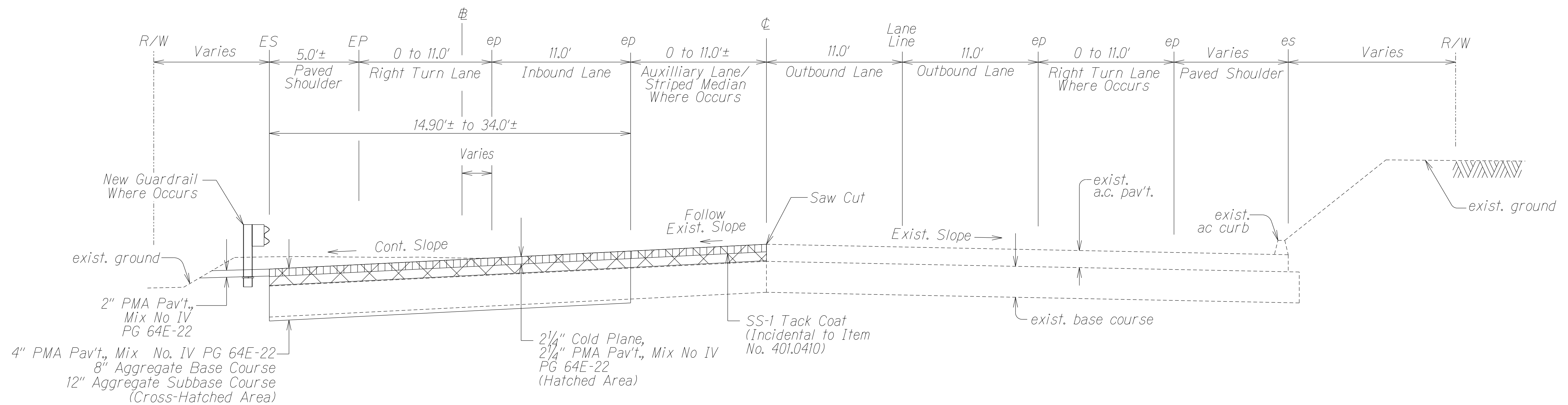
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Date: Dec. 2025

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	11	28



TYPICAL SECTION
STA. 236+00 TO # STA. 240+00
Not to Scale



TYPICAL SECTION
STA. 240+43.64 TO # STA. 245+23.24
Not to Scale

Note: Install erosion control matting and hydro-mulch at all finish grade.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NO. 1000	CHECKED BY	
NO. 1000	QUANTITIES BY	
NO. 1000	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

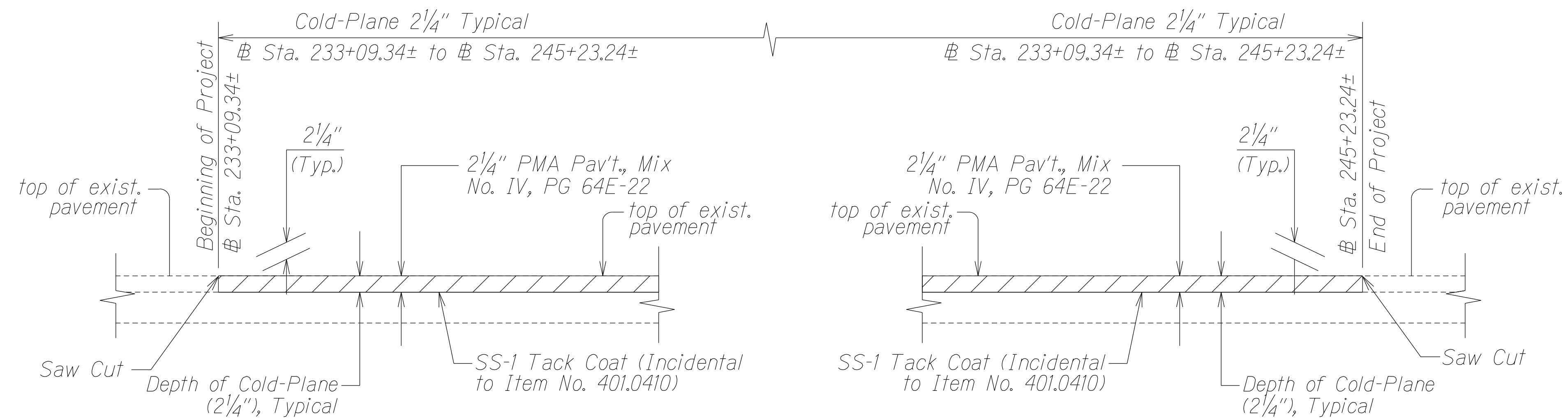
TYPICAL SECTIONS

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

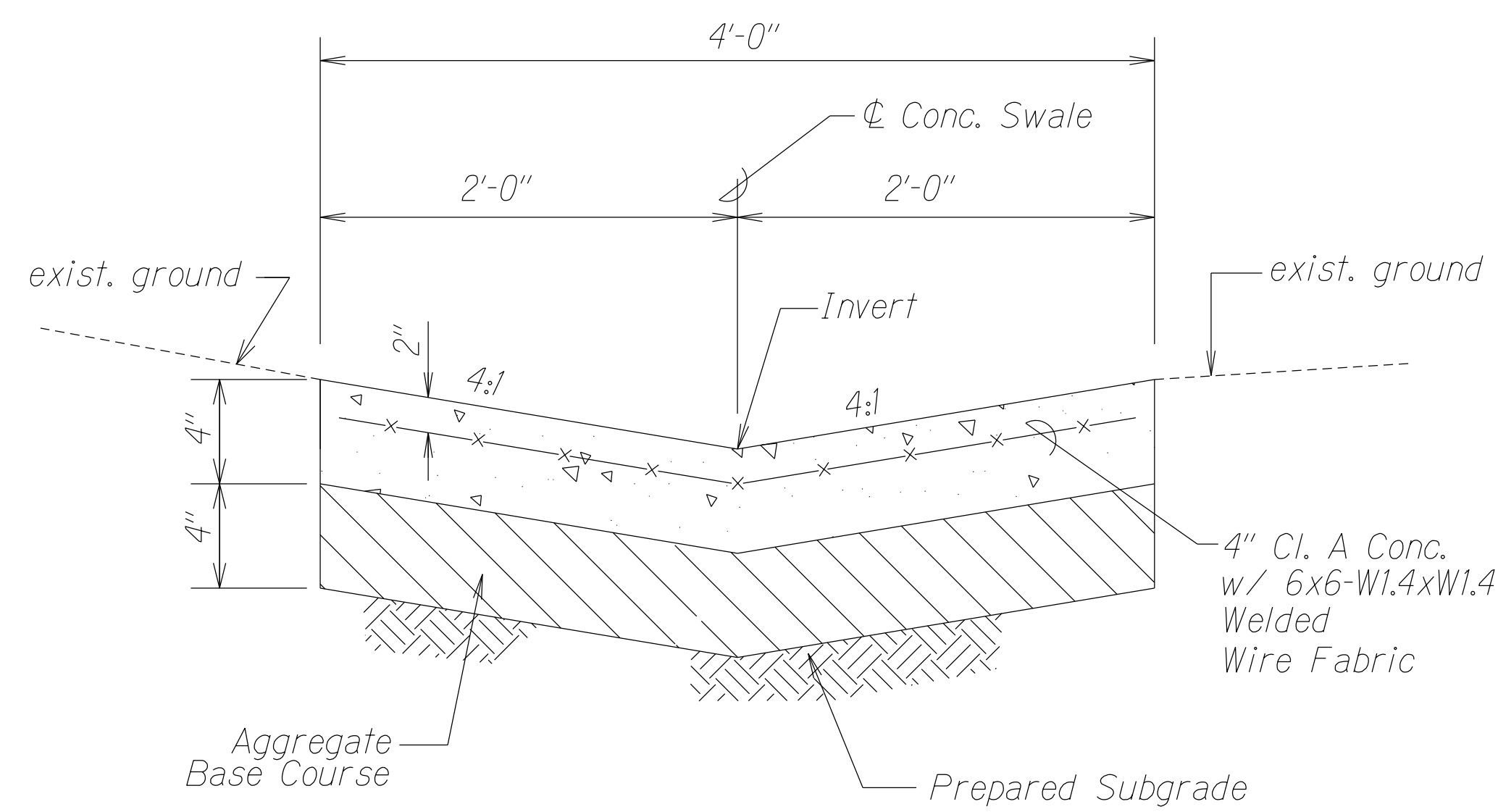
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SHEET No. 2 OF 3 SHEETS

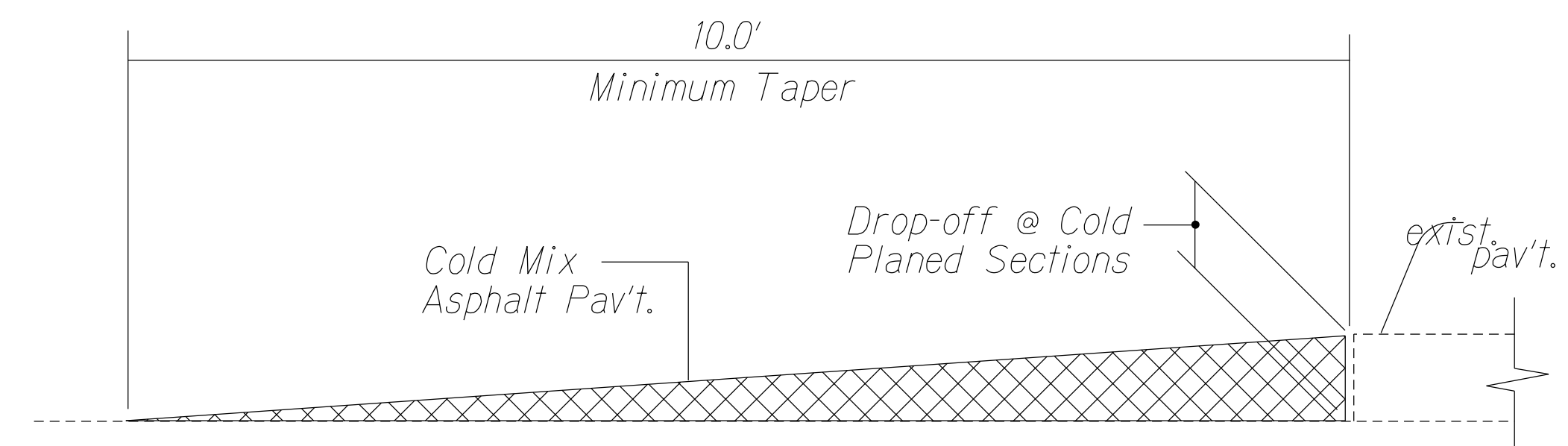
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HAWAII	HAW.	56A-03-25	2026	12	28



COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT AT THE BEGINNING AND END OF PROJECT
Not to Scale



CONCRETE SWALE, (41414)
Not to Scale



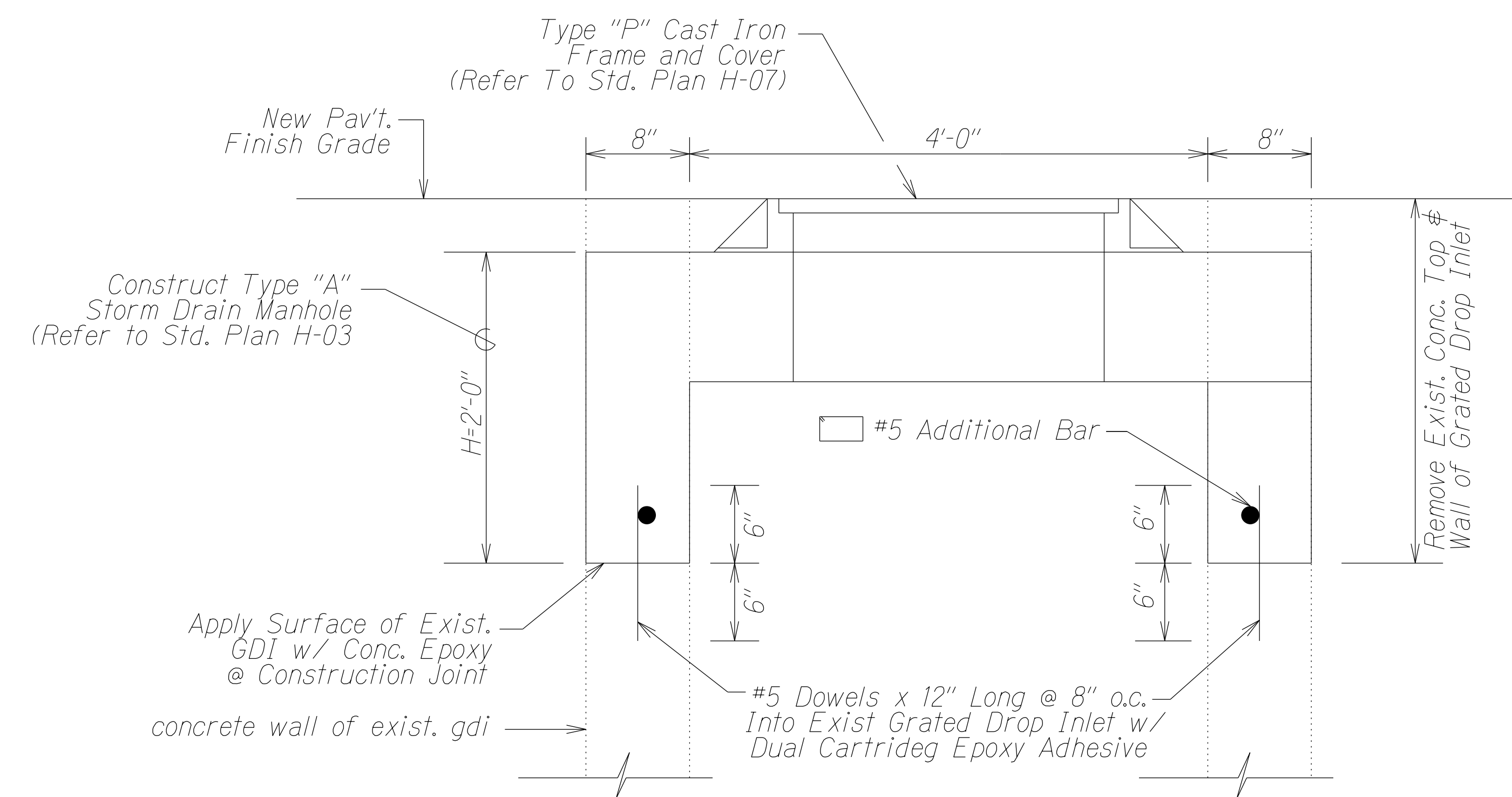
TEMPORARY TRANSITION AT COLD PLANED AREAS
Not to Scale

Note: Contractor shall construct temporary pavement taper to prevent sharp pavement drop-offs at all cold planed sections. Prior to final PMA Pavement, Mix No. IV placement, temporary pavement taper shall be removed.

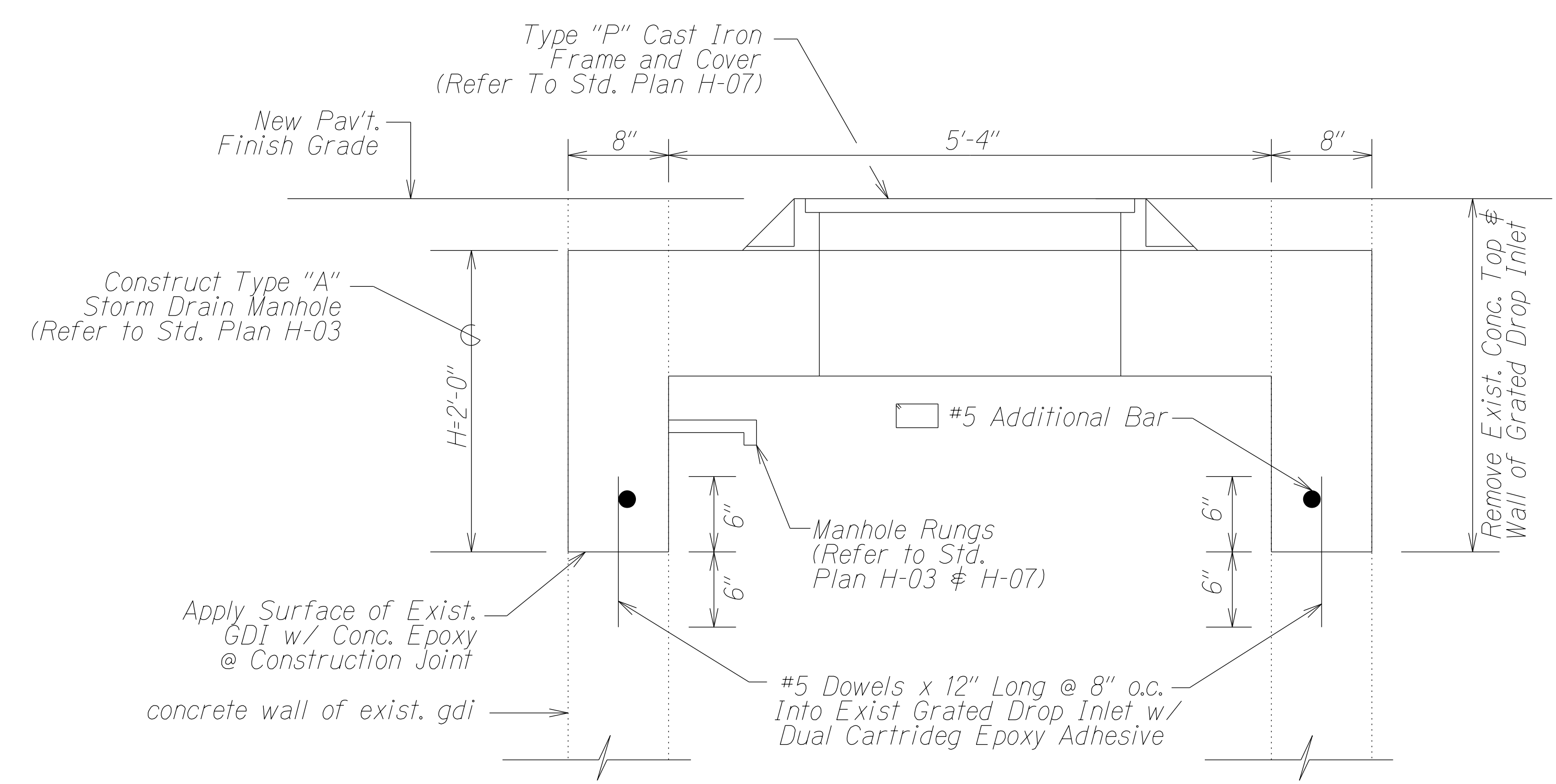
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>TYPICAL SECTIONS</u>		
KUHO HIGHWAY INTERSECTION IMPROVEMENTS Vicinity of Pineapple Store Project No. 56A-03-25		
Scale: NTS	Date: Dec. 2025	
SHEET No. 3 OF 3 SHEETS		

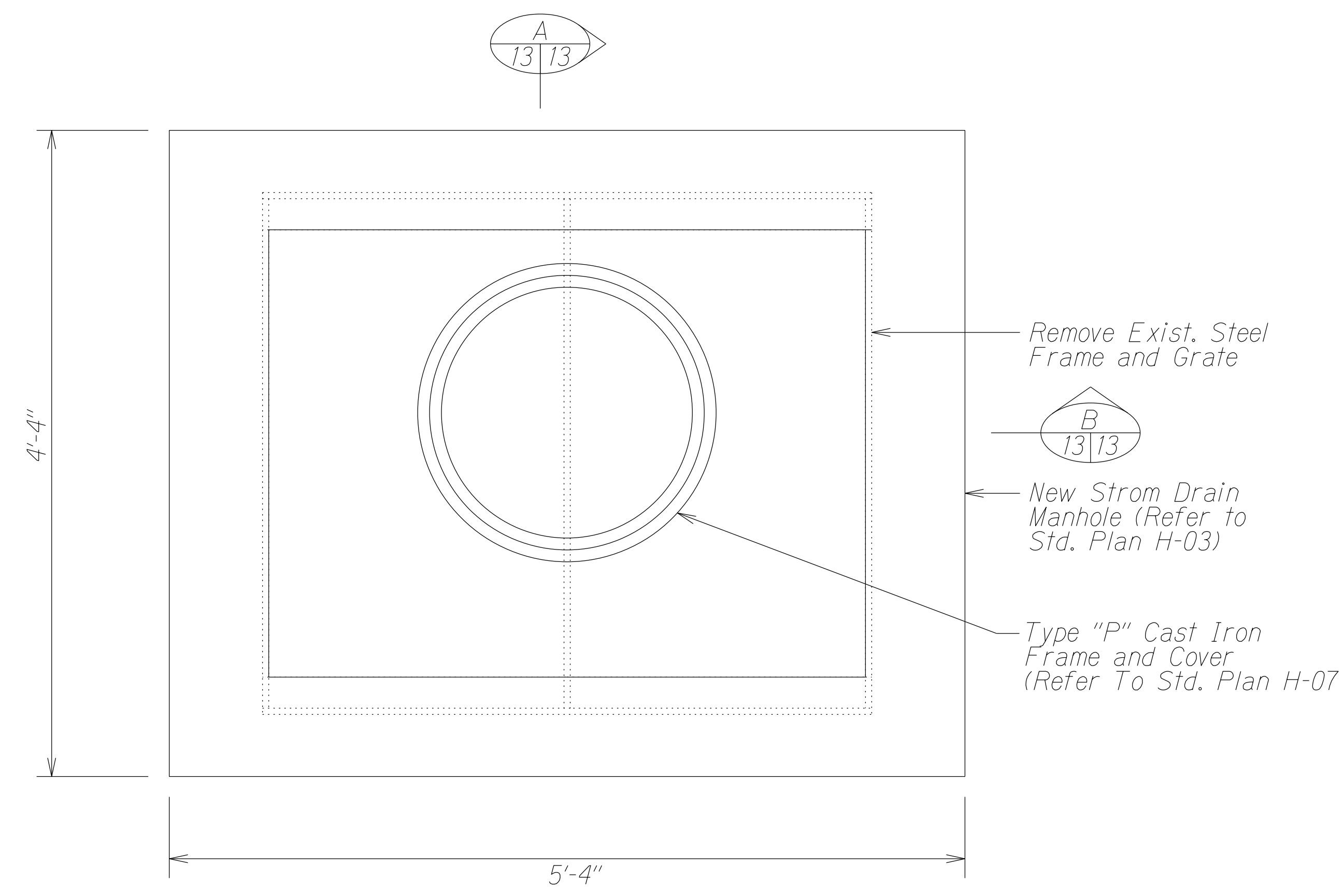
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HAWAII	HAW.	56A-03-25	2026	13	28



SECTION A
13/13



SECTION B
13/13



PLAN

5 Additional Hori. Bar

- Notes:
- Storm drain manhole to follow grade of new asphalt concrete pavement.
 - Refer to "Standard Plans, Highways Division, Design Branch, 2008" for additional details
 - The contractor shall verify in the field the exact dimensions of the existing grated drop inlets.
 - Storm drain manhole reinforcement detail to follow Standard Plans H-03.
 - Storm drain ladder rung to follow existing location grated drop inlet ladder rung.

RECONSTRUCTION DETAILS
EXIST. TYPE 1A-9P GRATED DROP INLET
TO TYPE "A" STORM DRAIN MANHOLE
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	04/11
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NOTE BOOK
Redline	N ^o 13/13

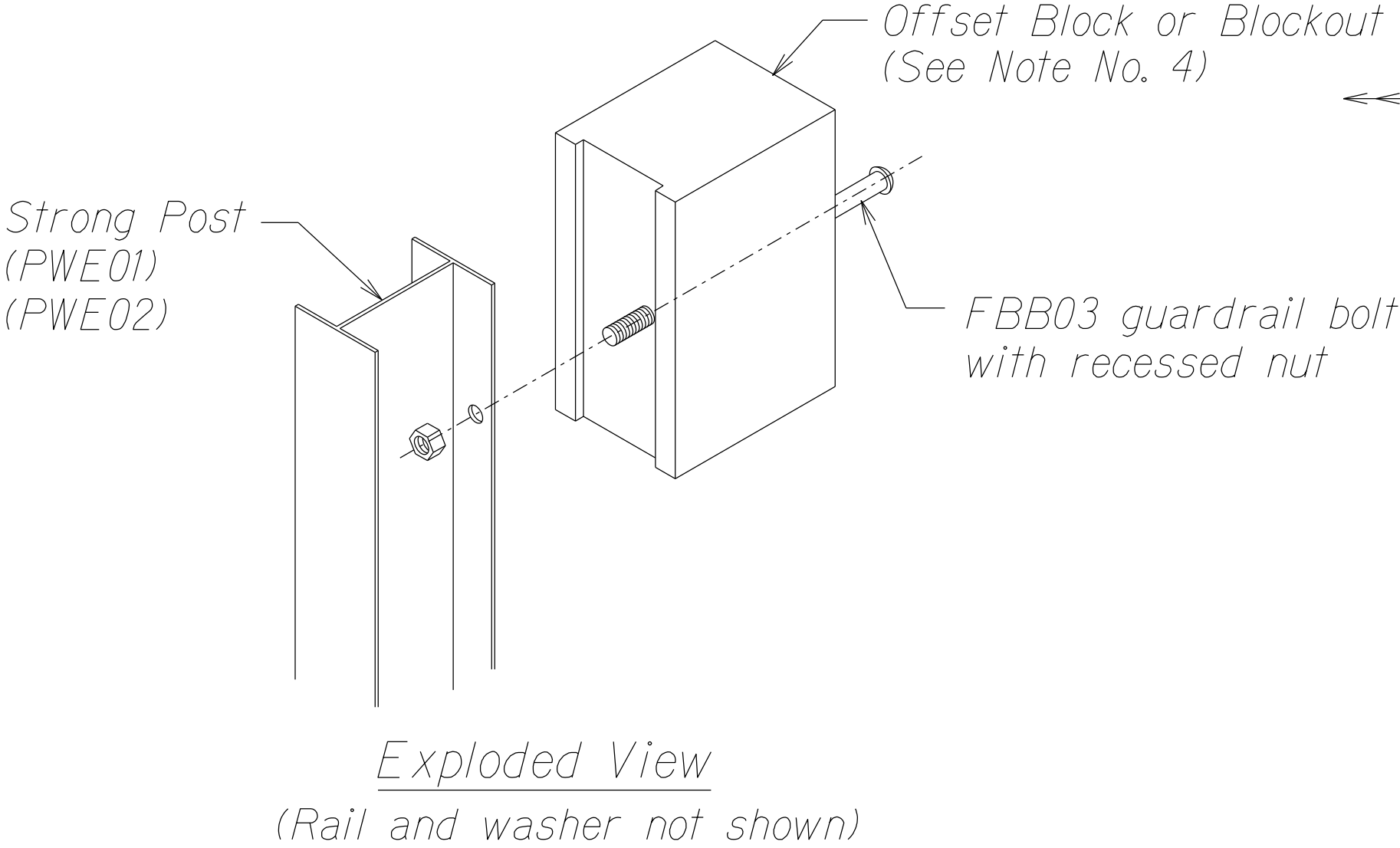
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RECONSTRUCTION DETAIL
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: NTS
Date: Dec. 2025

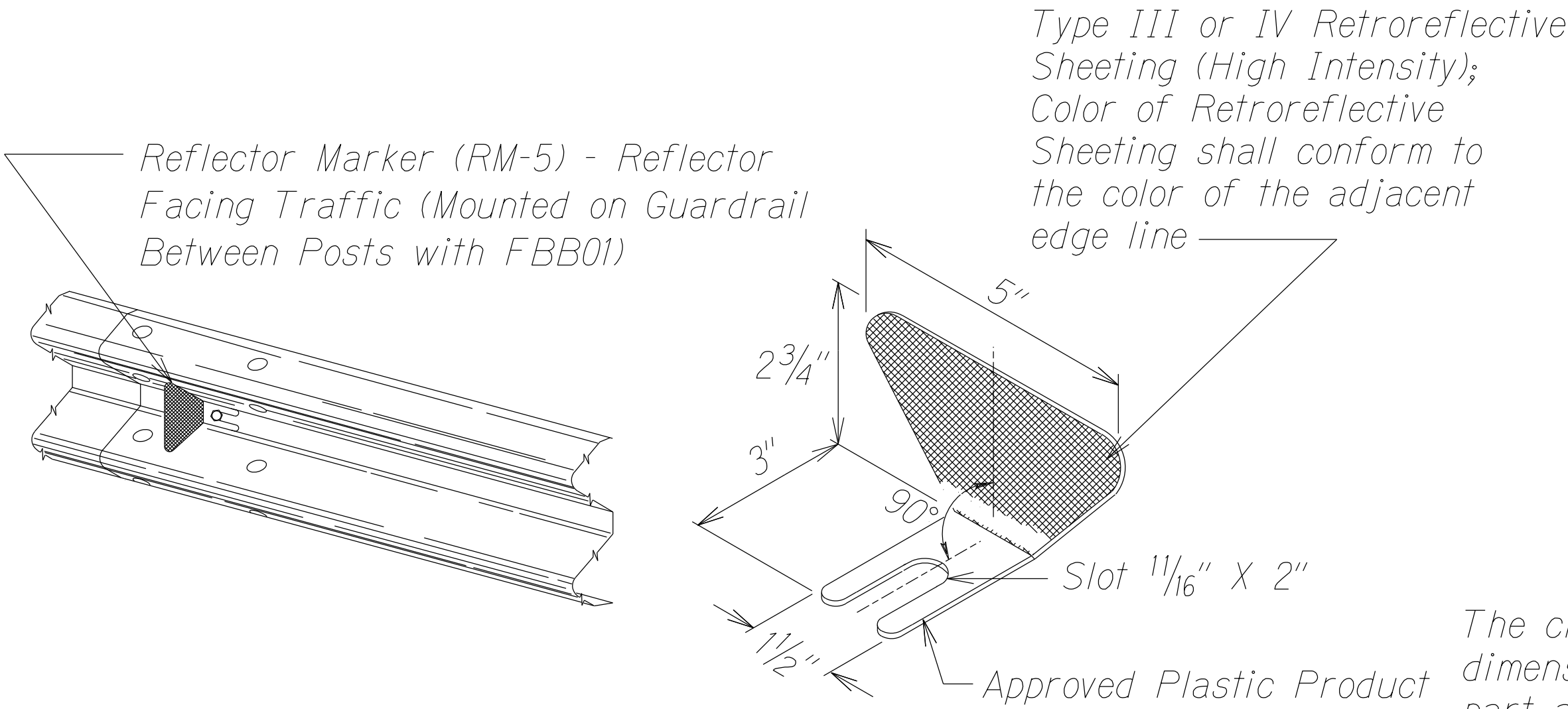
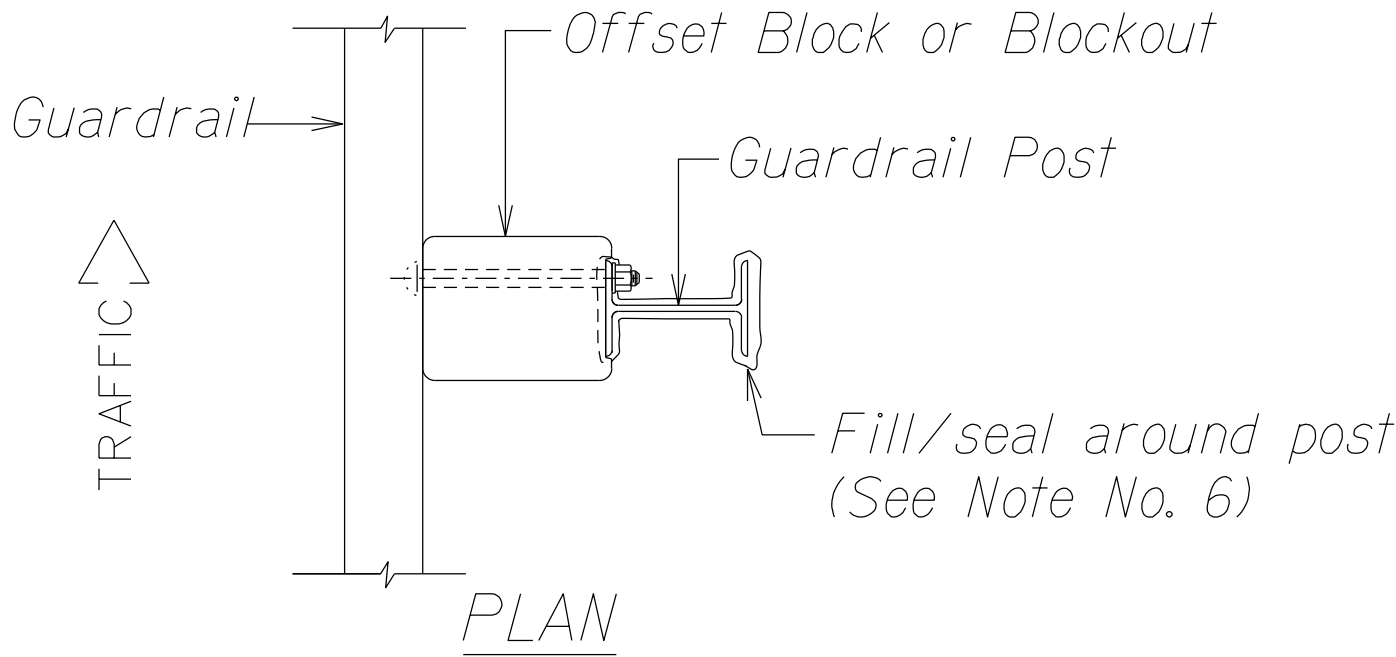
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	14	28

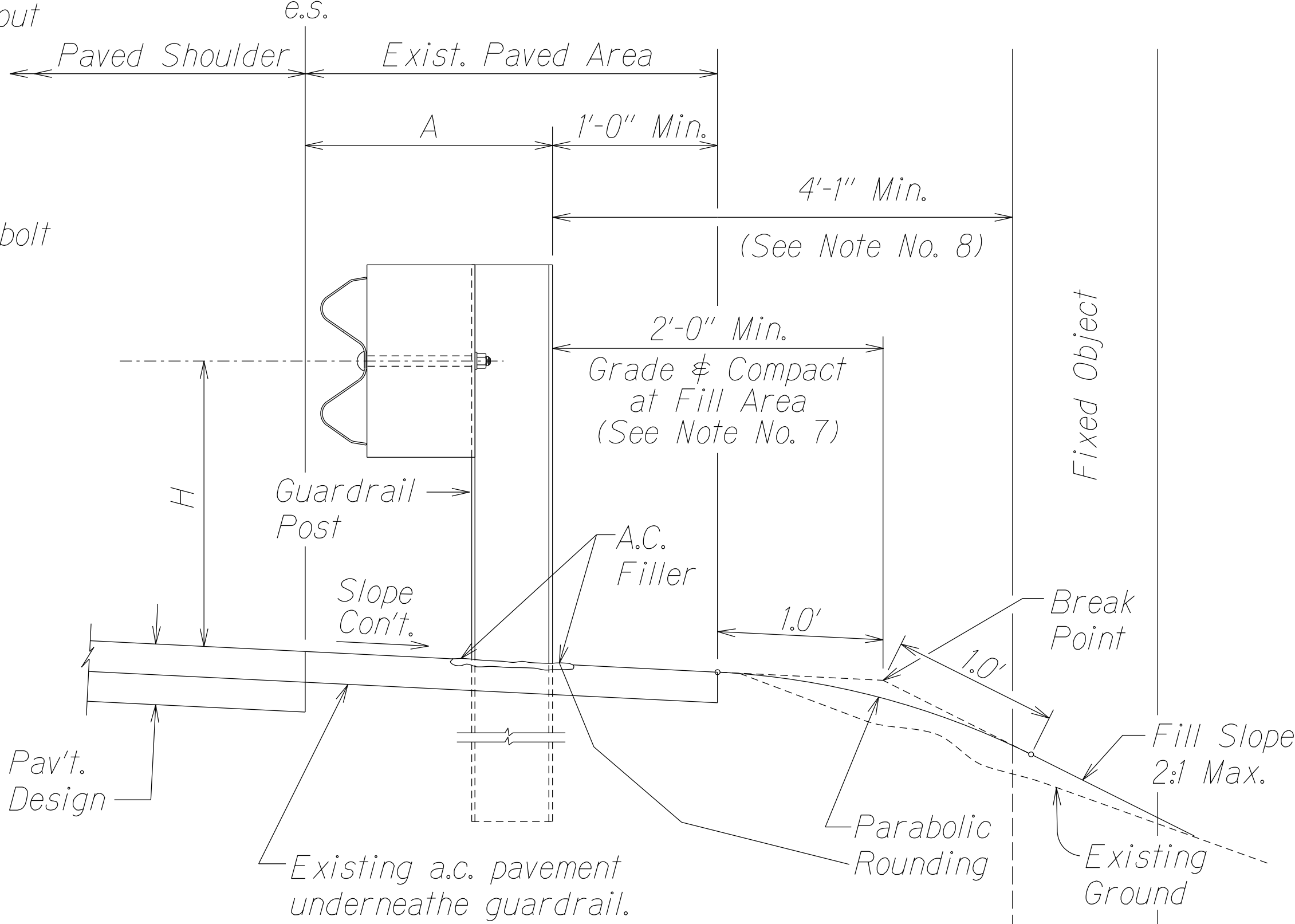


STEEL POST AND BLOCK DETAIL

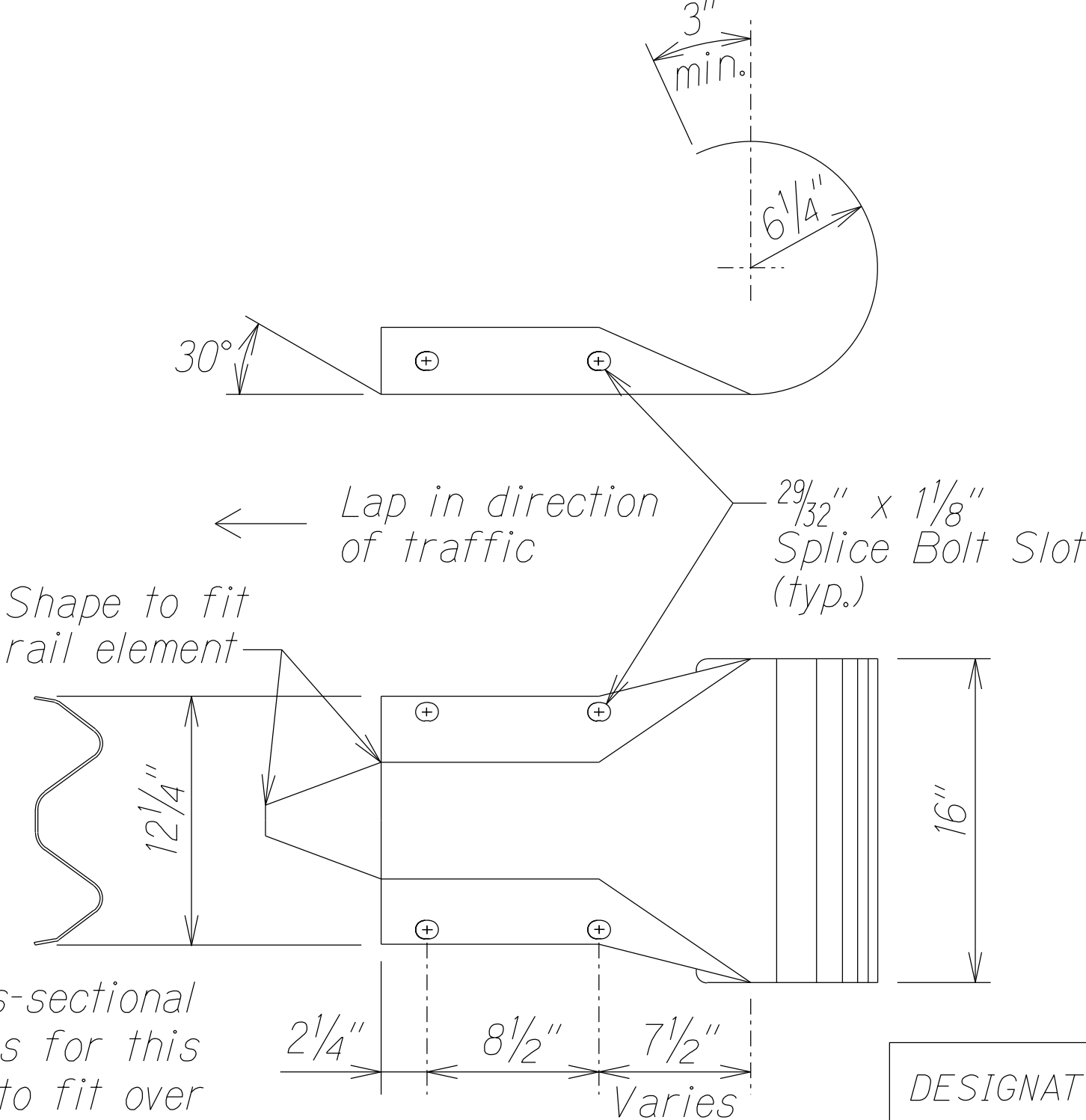
GUARDRAIL TYPE	DIMENSION	
	H	A
MGS w/ Standard 8" Offset Block	2'-1"	1'-6"
MGS w/ No Blockout	2'-7/8"	9 1/4"



REFLECTOR MARKER (RM-5)
DETAIL AND TYPICAL INSTALLATION



ELEVATION
TYPICAL GUARDRAIL INSTALLATION



The cross-sectional dimensions for this part are to fit over part RWM02a

W-BEAM END SECTION (ROUNDED RWE03a)

DESIGNATOR	BASE METAL THICKNESS
RWE03a	12 Gauge

GENERAL NOTES

1. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
2. Where conditions require, special post lengths in increments of 6 inches may be specified by the Engineer.
3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM04b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fastners, posts and rail elements have been converted from metric units into their present form.
4. The Blockout or Offset Block shall be approved by the State.
5. All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the Additional Paved Area.
6. After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the inspector/engineer, the Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
7. When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
8. Minimum working width (clear distance) between back of MGS post to any fixed object is 4'-1" (49").
9. New Hot Mix Asphalt (HMA) pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends. This work shall be considered incidental to various conntract items
10. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. RM-5's shall not be installed on Terminal Sections. Furnishing and installing of each RM-5 shall be considered incidental to the guardrail system.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS & NOTES

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

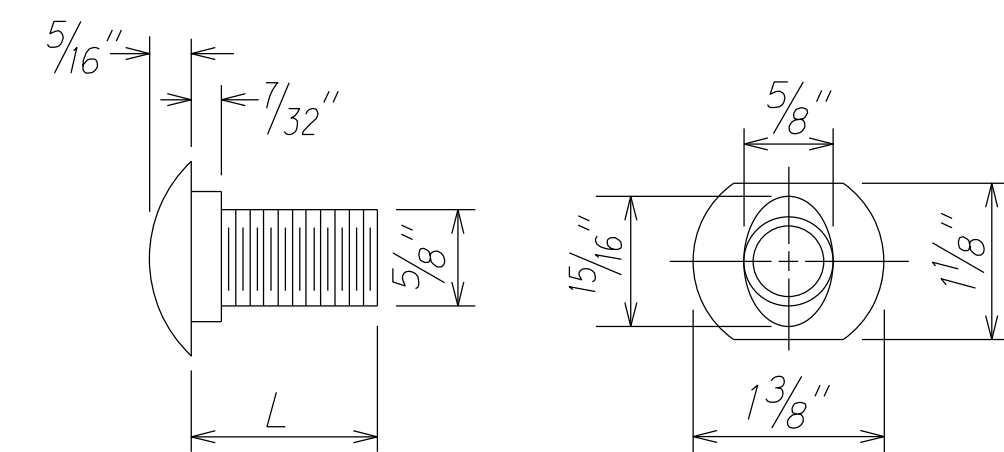
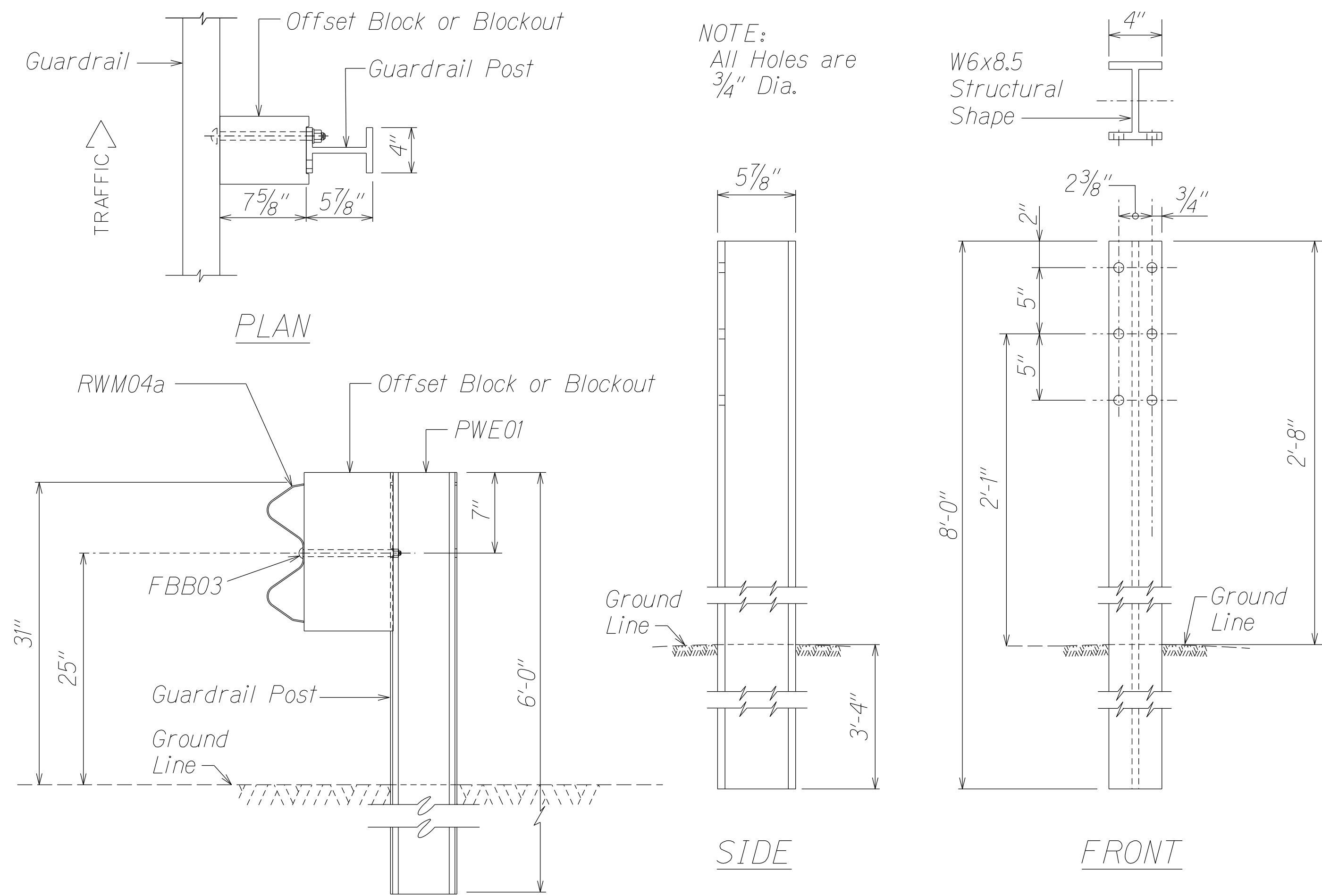
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SHEET No. 1 OF 6 SHEETS

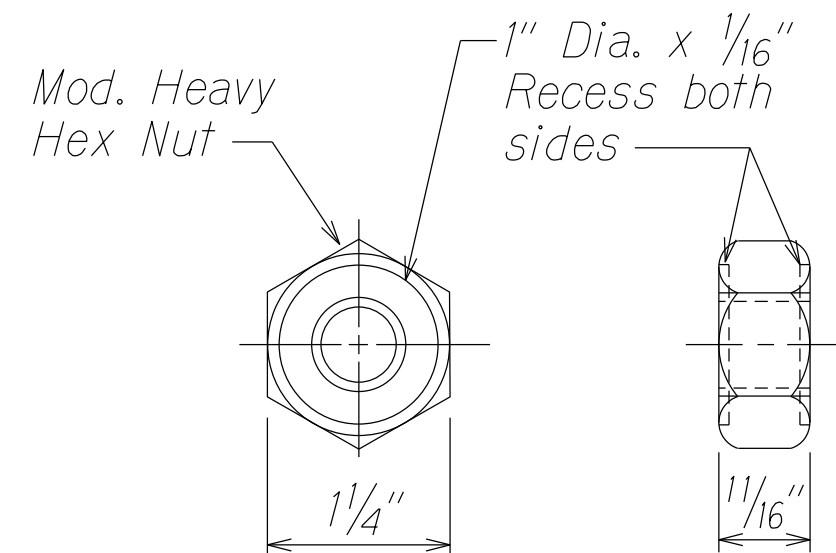
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ORIGINAL PLAN	NOTE BOOK
9/11/2025/ldg	N#

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	15	28

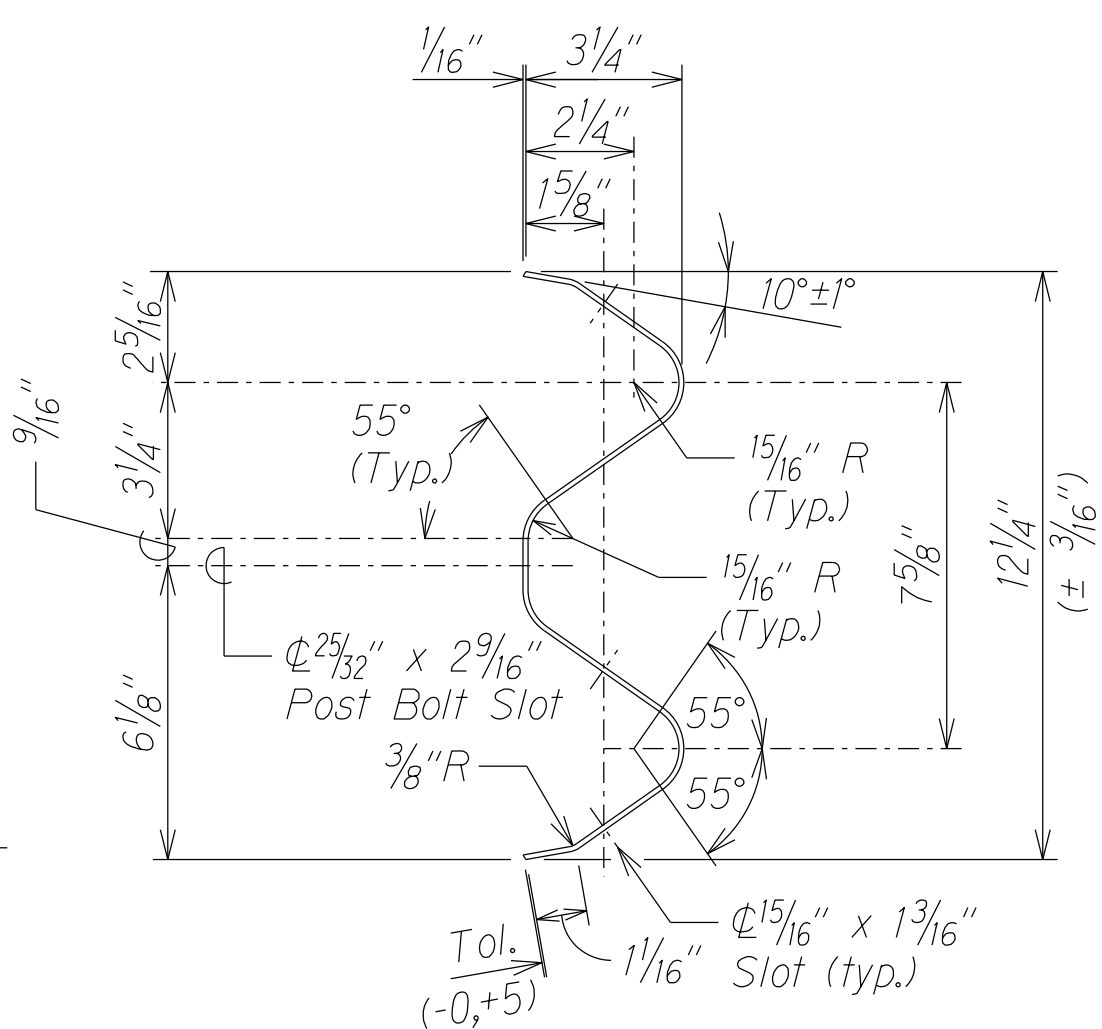
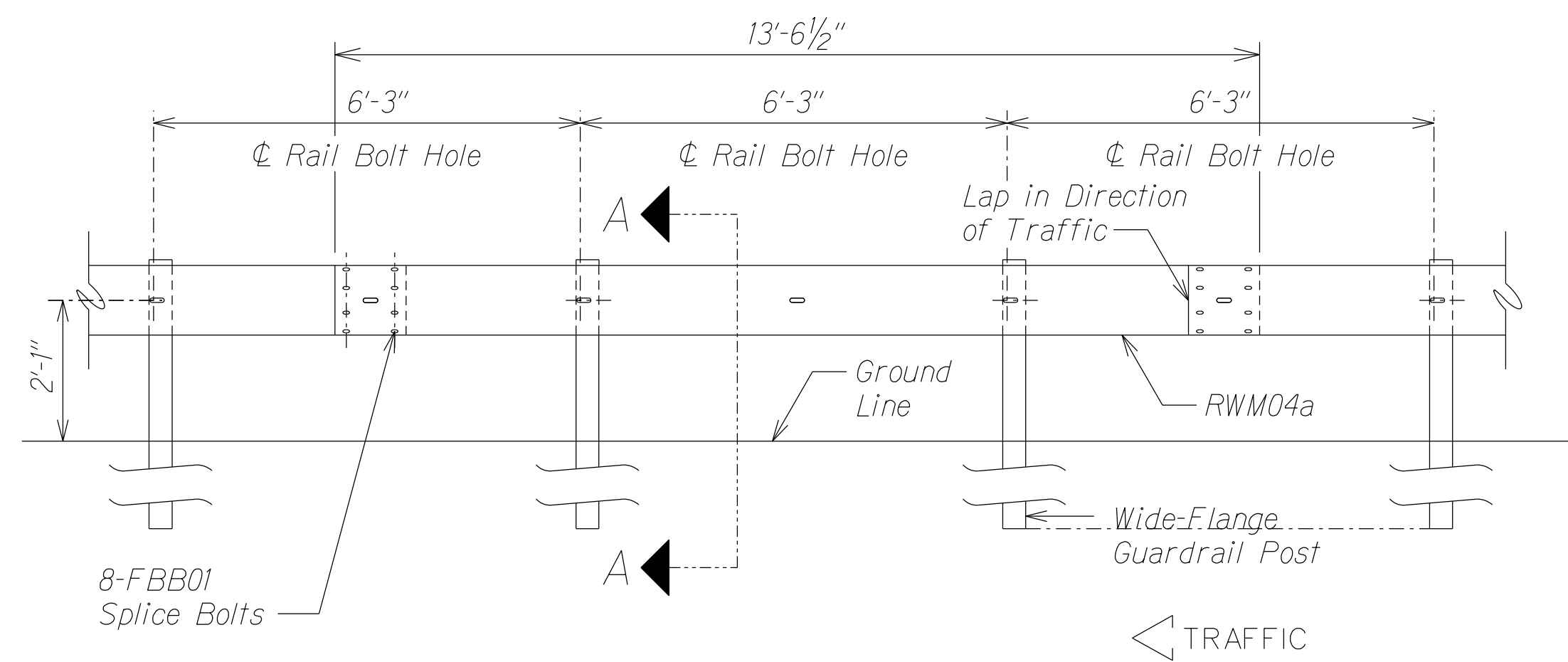
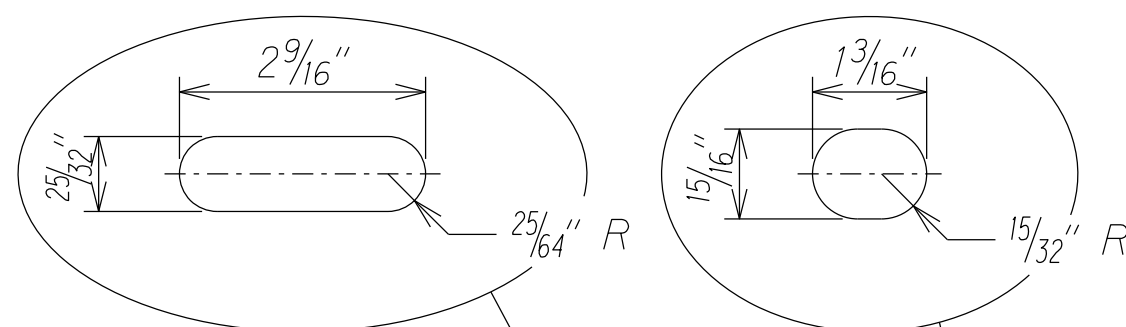


DESIGNATOR	L
FBB01	1 $\frac{3}{8}$ "
FBB02	2"
FBB03	10"

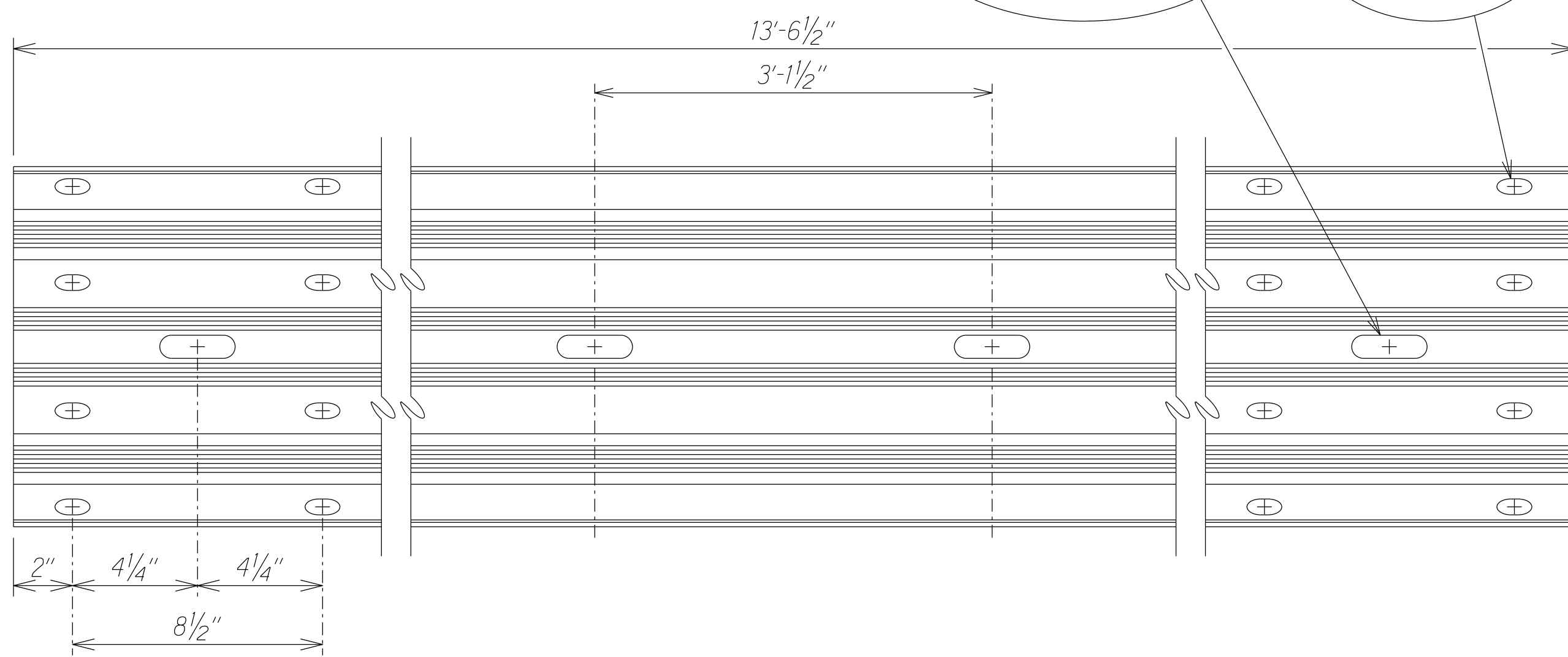


GUARDRAIL BOLTS AND RECESSED NUT

DESIGNATOR	BASE METAL THICKNESS
RWM04a	12 Gauge



4 SPACE W-BEAM GUARDRAIL (RWM04a)



ELEVATION

MIDWEST GUARDRAIL SYSTEM WITH STANDARD 8" OFFSET BLOCK (SGR47)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
3" W-BEAM GUARDRAIL WITH
STANDARD 8" OFFSET BLOCK
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: NTS

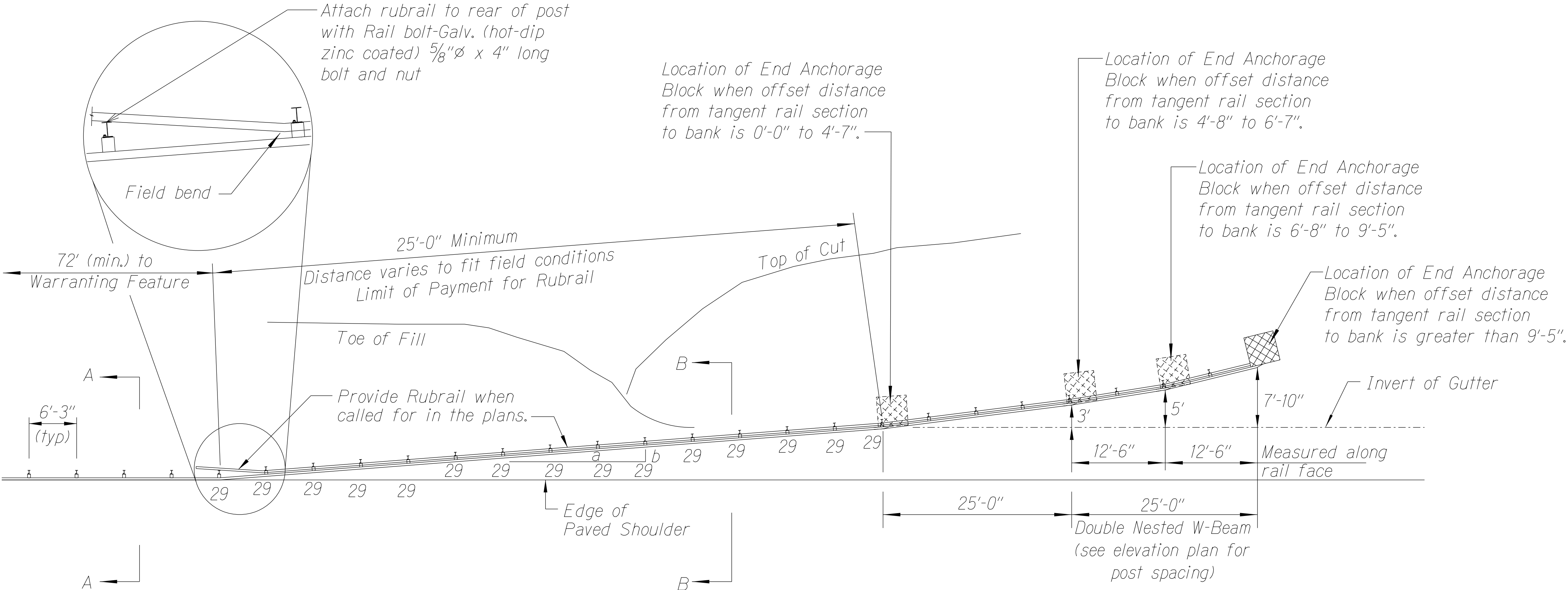
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SHEET No. 2 OF 6 SHEETS

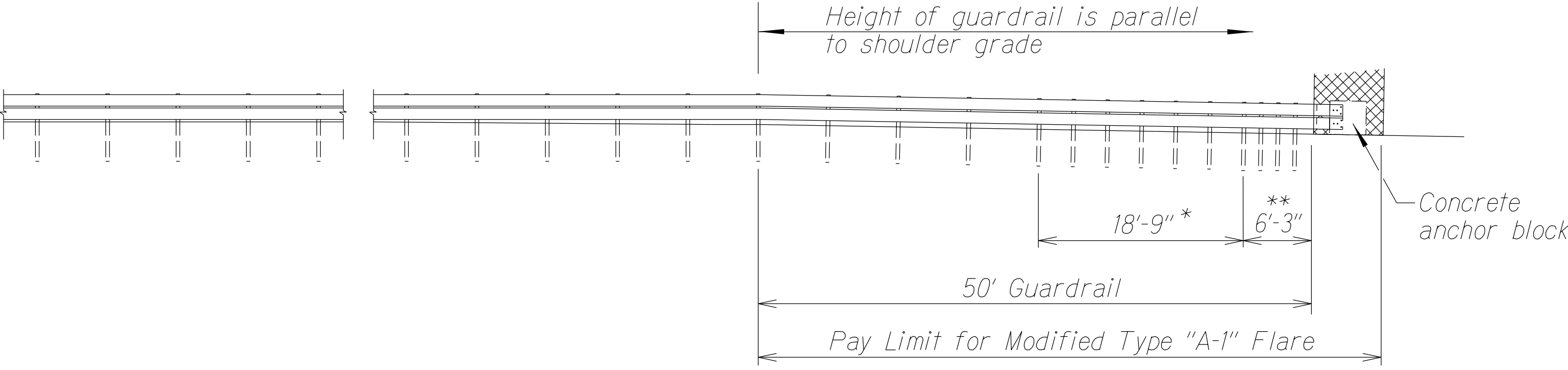
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	16	28

General Notes

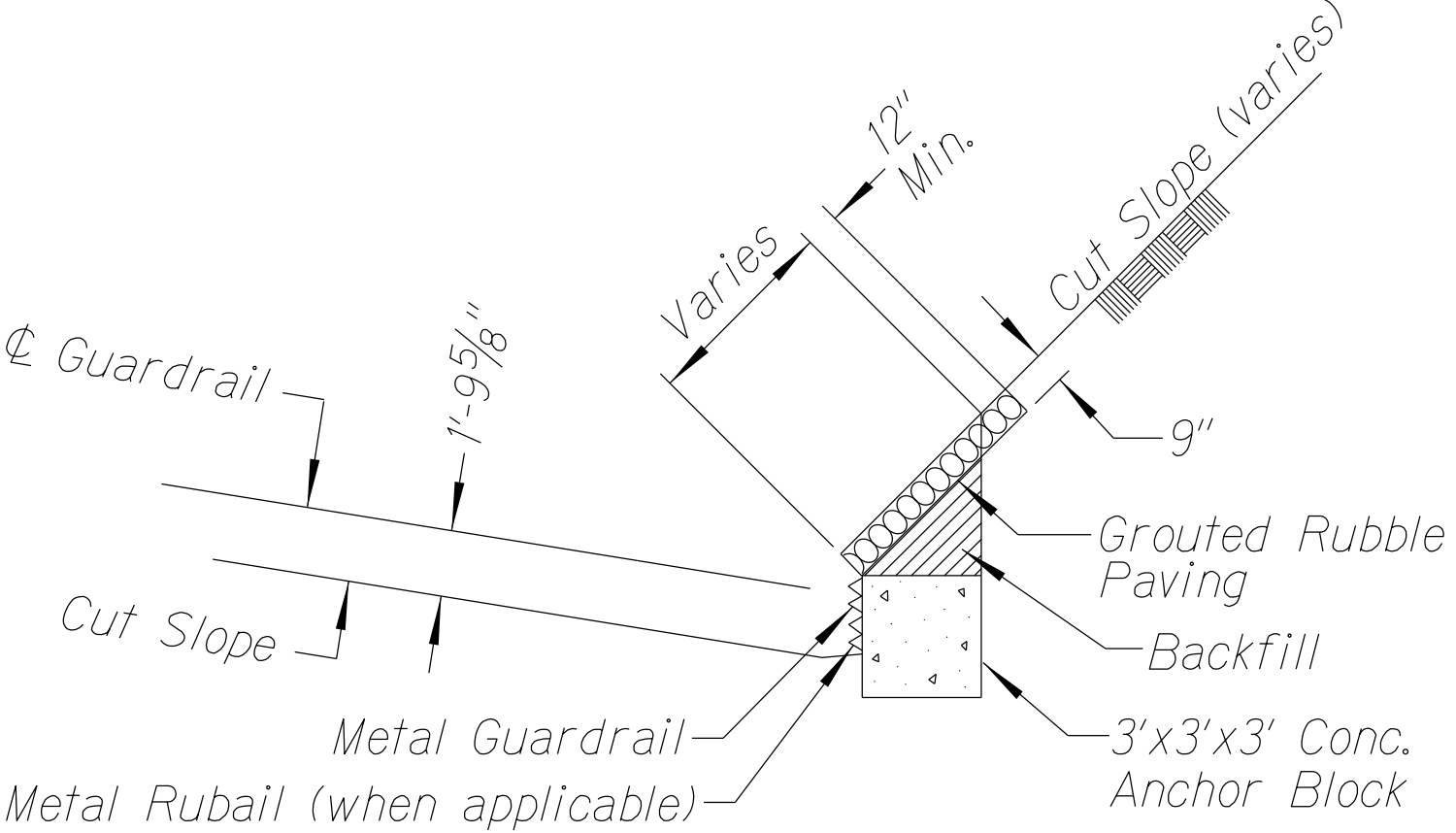
1. All posts are 6'-0" in length within the 50'-0" pay limit for the Modified Type "A-1" Flare without rubrail.
2. Whenever swales or a change in grade is encountered within the 50'-0" pay limit for the Modified Type "A-1" Flare, a rubrail shall be installed and all posts shall have a minimum embedment of 4'-0". Post lengths shall be adjusted to provide the minimum embedment.
3. All fasteners, posts, blocks and rail elements shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGCARTBA Joint Cooperative Committee and HDOT's Statewide Guideline for Permanent Highway Safety Hardware.
4. Limit of payment for Modified Type "A-1" Flare shall be 50'-0" from End Shoe including Rubrail (when applicable), Anchor Block and GRP work.
5. Excavation, Anchor Block, Backfill and GRP work shall be considered incidental to the Modified Type "A-1" Flare.



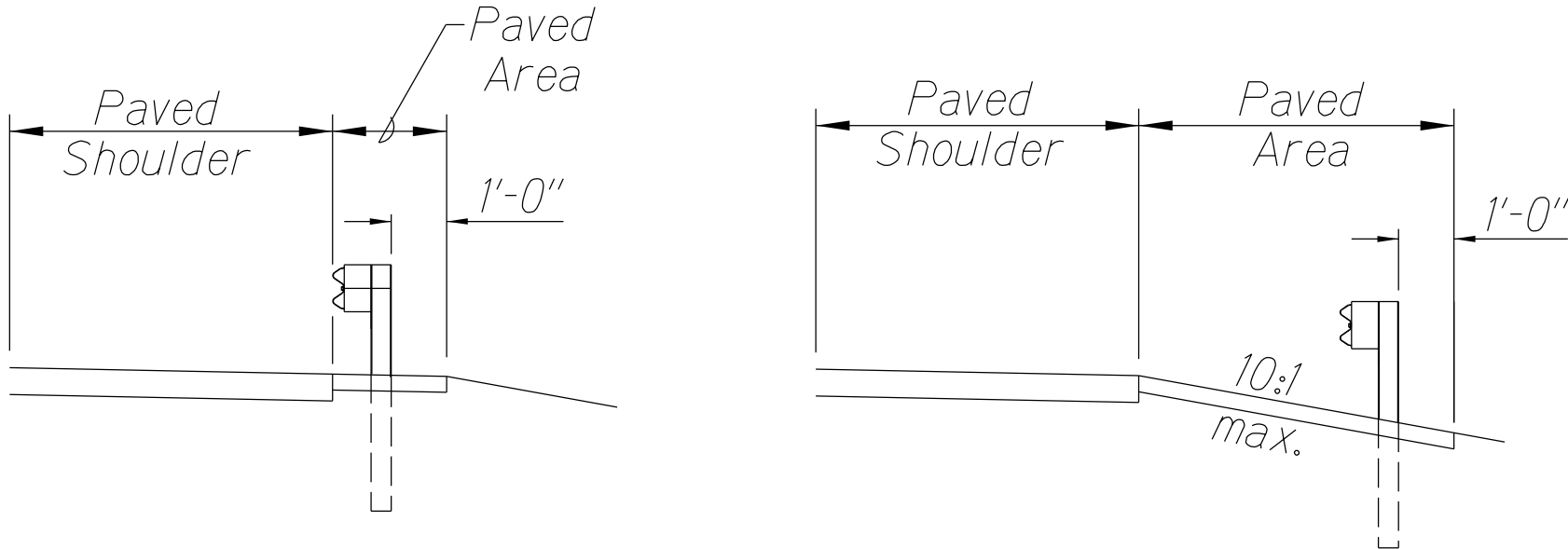
PLAN



ELEVATION (Profile Along Rail)

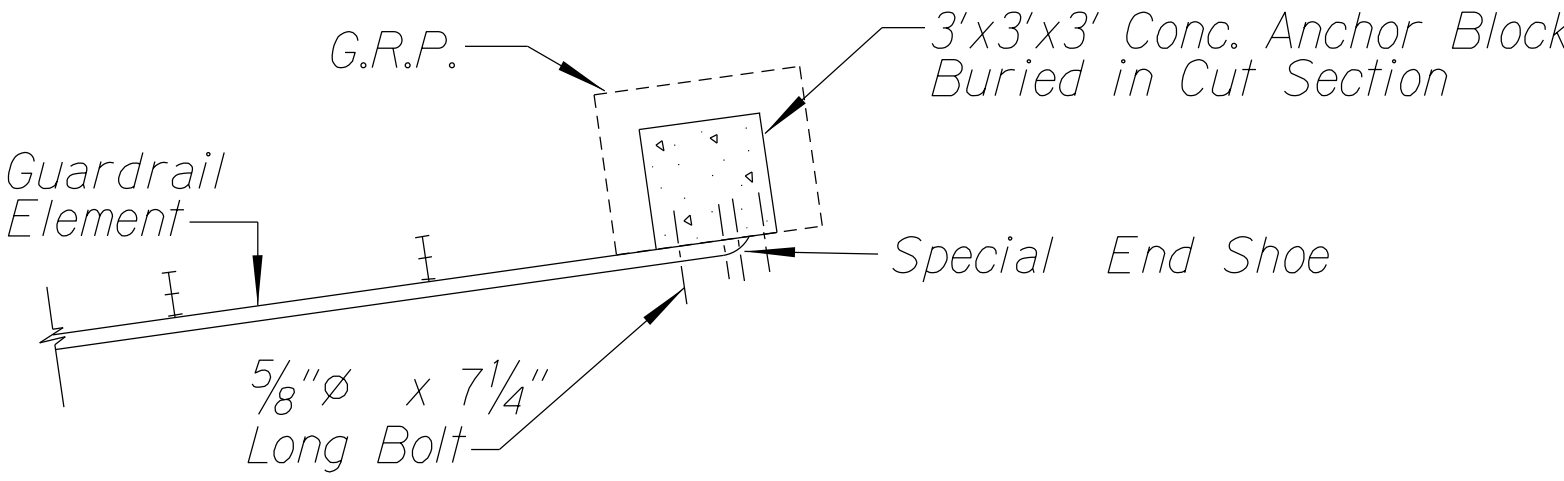


ANCHOR BLOCK IN CUT SECTION



Section A-A

Section B-B



PLAN - ANCHOR BLOCK IN CUT SECTION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

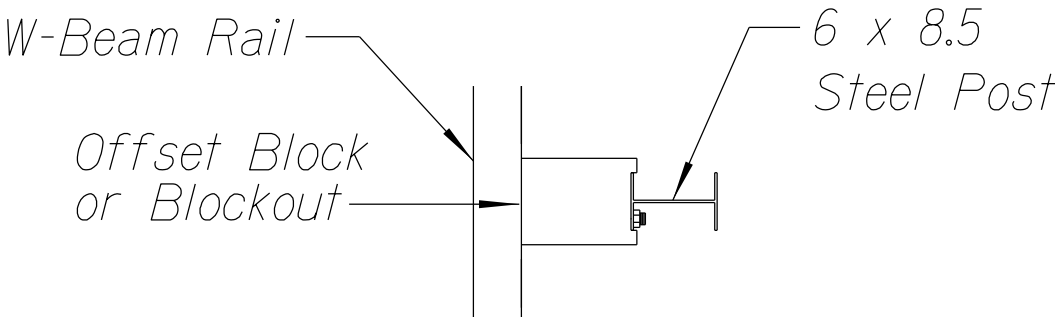
MODIFIED TYPE "A-1" FLARE

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

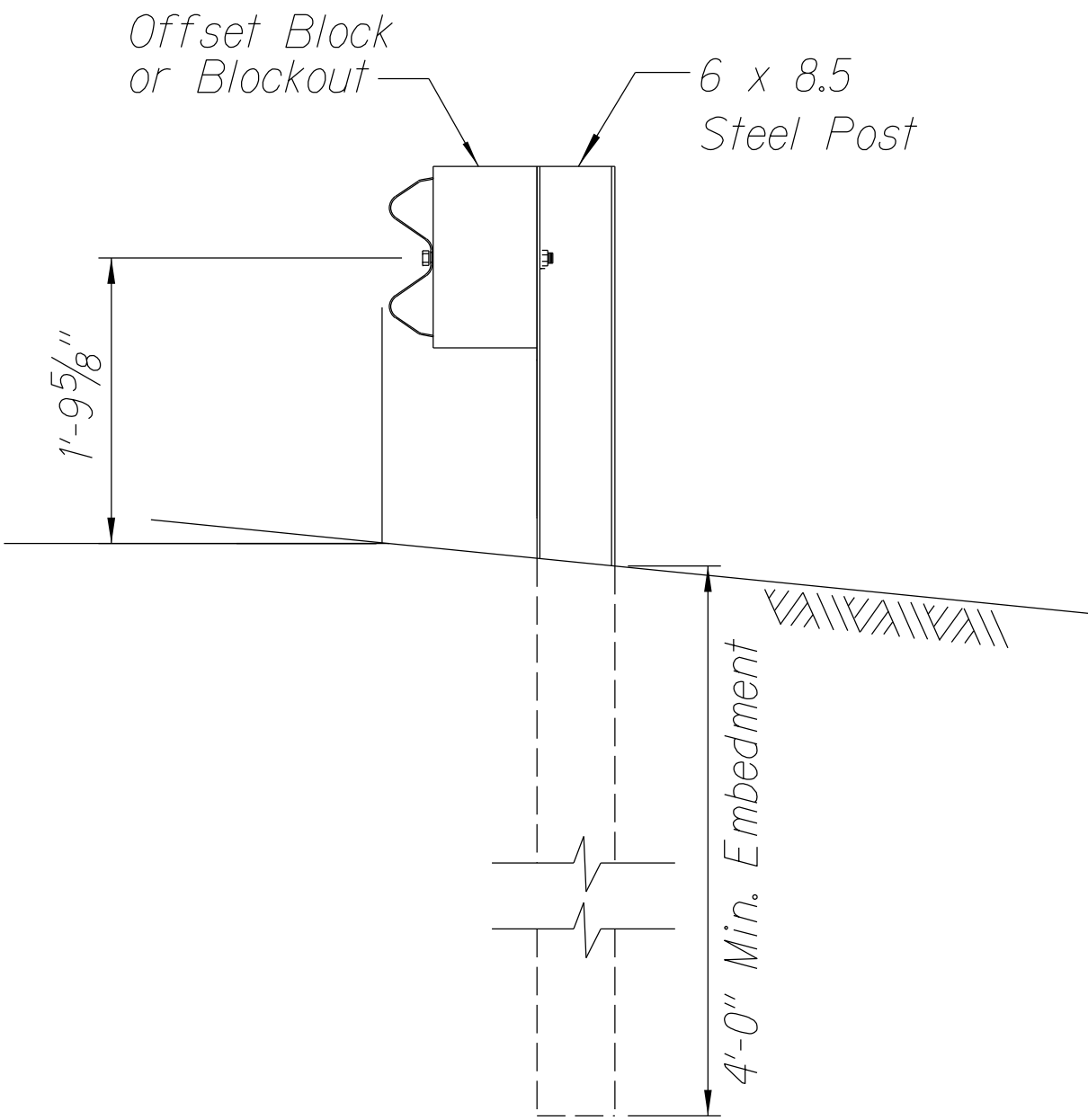
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SHEET No. 3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	17	28

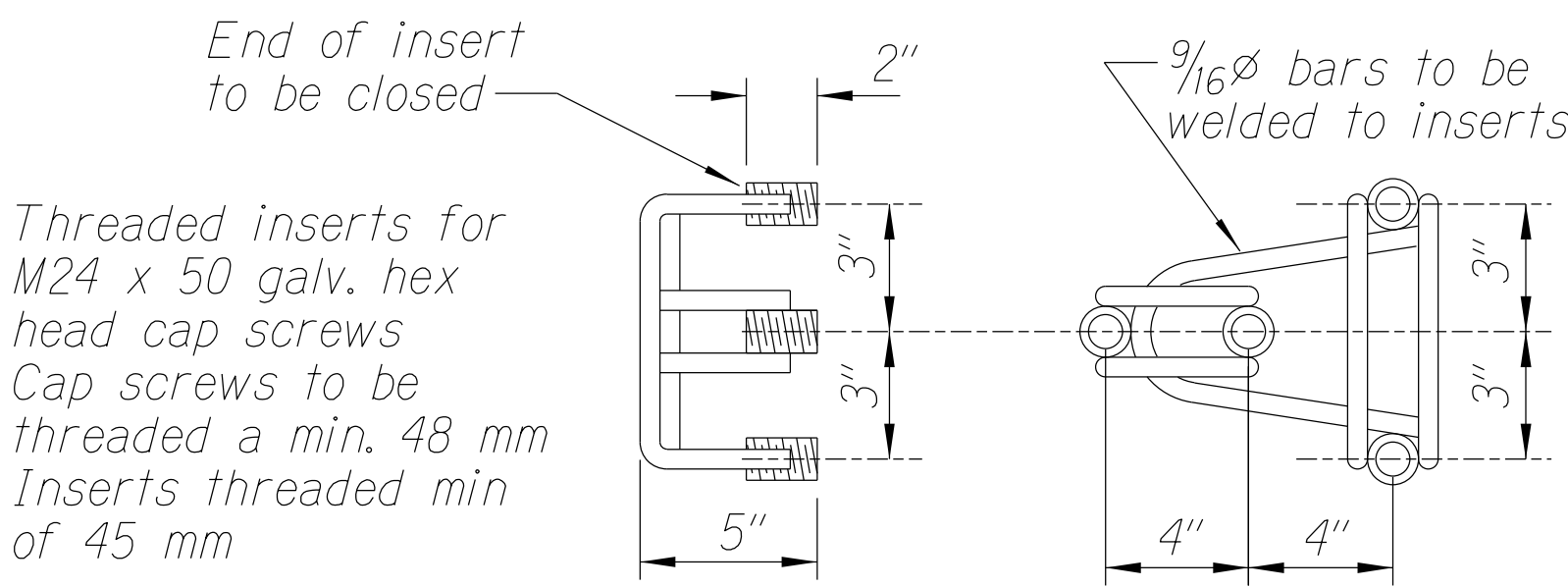


Plan

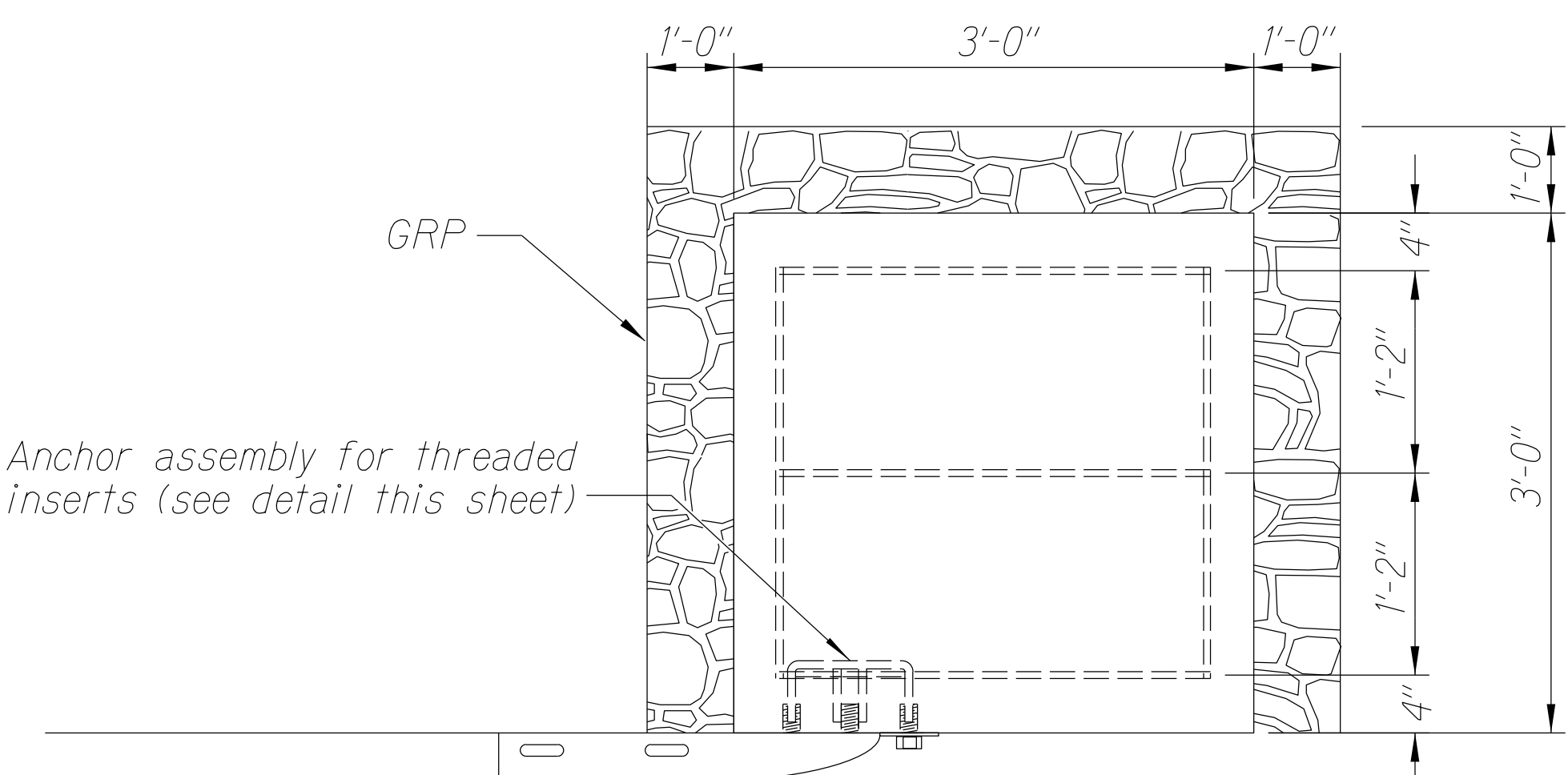


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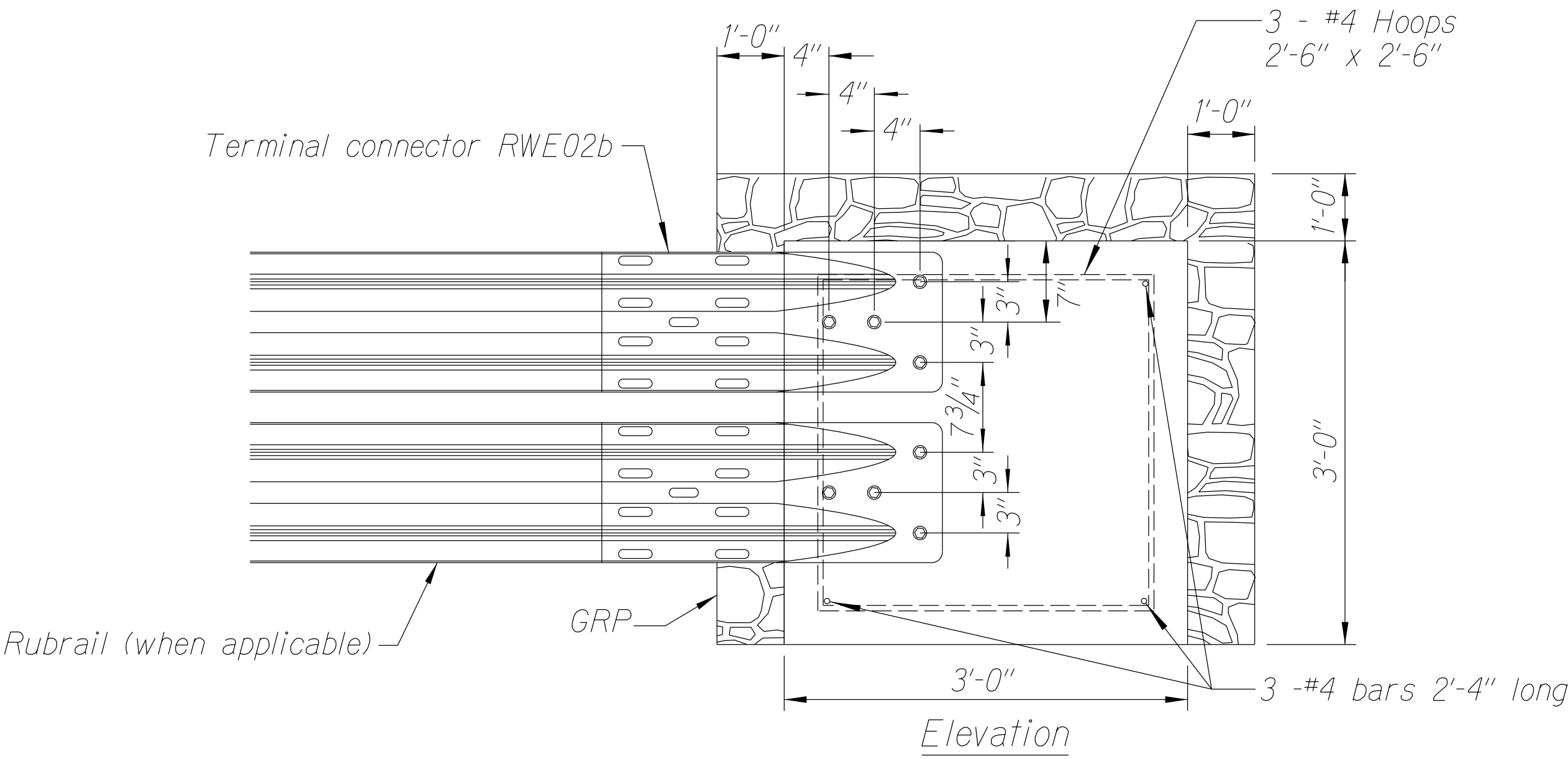
STRONG POST W-BEAM GUARDRAIL



ANCHOR ASSEMBLY
CONCRETE BLOCK ANCHOR



Plan



CONCRETE BLOCK ANCHOR
(3' X 3' X 3')

BACKSLOPE ANCHOR TERMINAL END ANCHORAGE DETAILS
MODIFIED TYPE "A-1" FLARE

Note:
All fasteners, posts, blocks and rail elements shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware," a report prepared and approved by the AASHTO-AGCARTBA Joint Cooperative Committee and HDOT's Statewide Guideline for Permanent Highway Safety Hardware.

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

ORIGINAL PLAN	NOTE BOOK
PLAN	RELATIVE
PLAN	PLAN
PLAN	PLAN
PLAN	PLAN

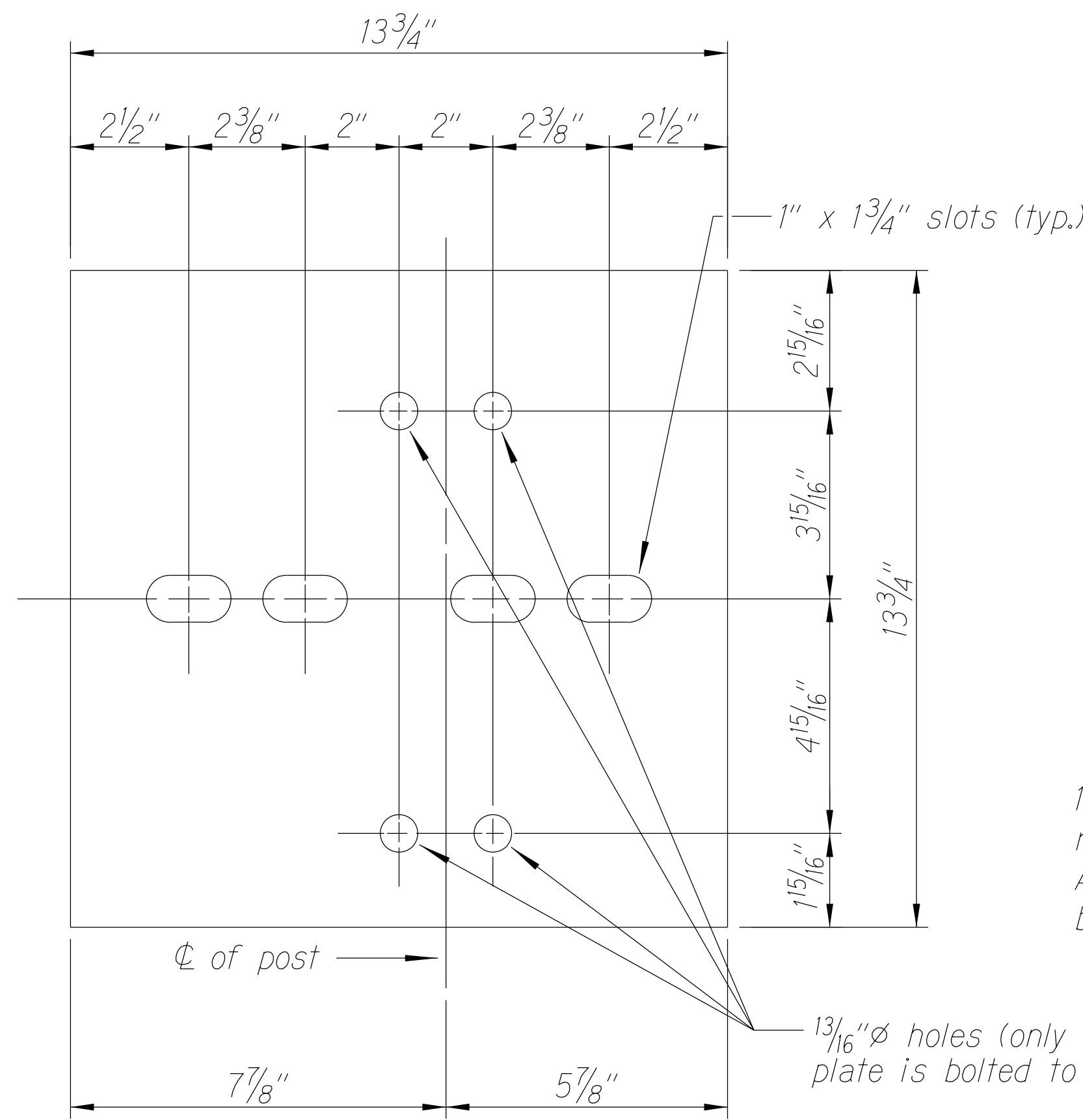
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MODIFIED TYPE "A-1" FLARE
KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

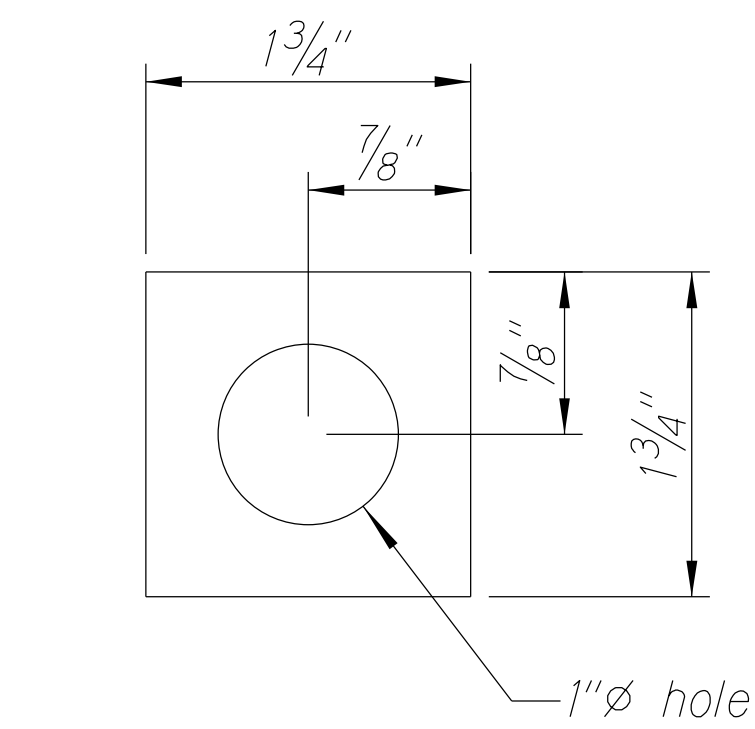
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Date: Dec. 2025

SHEET No. 4 OF 6 SHEETS

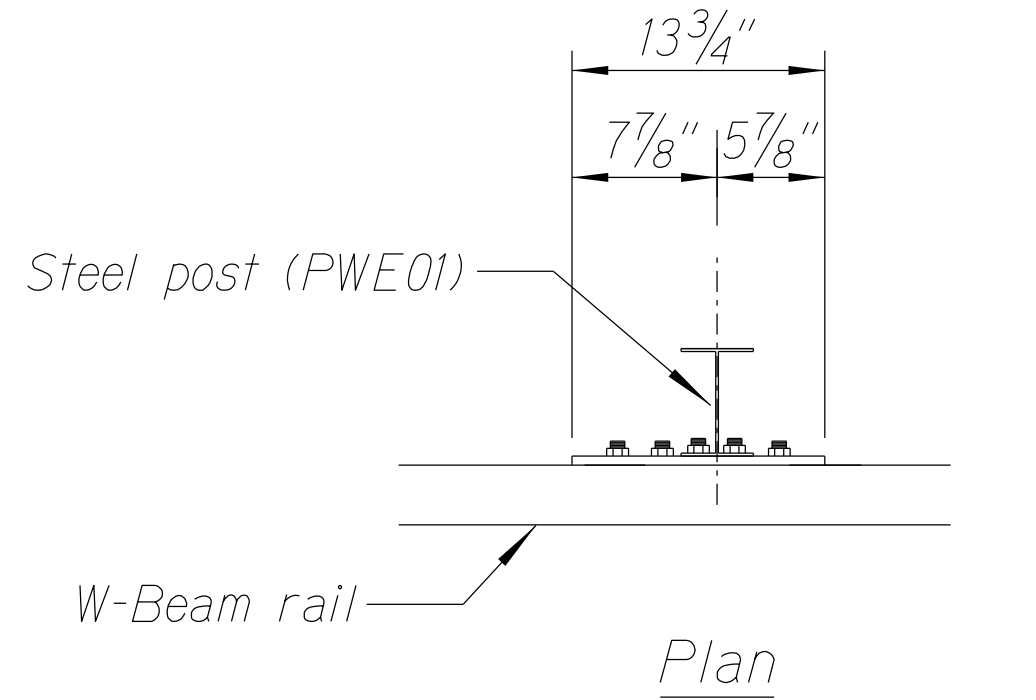
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	18	28



Steel Plate - 1/2"
(Hot-dip Zinc Coated Galvanized-
Welded or Bolted to Post)



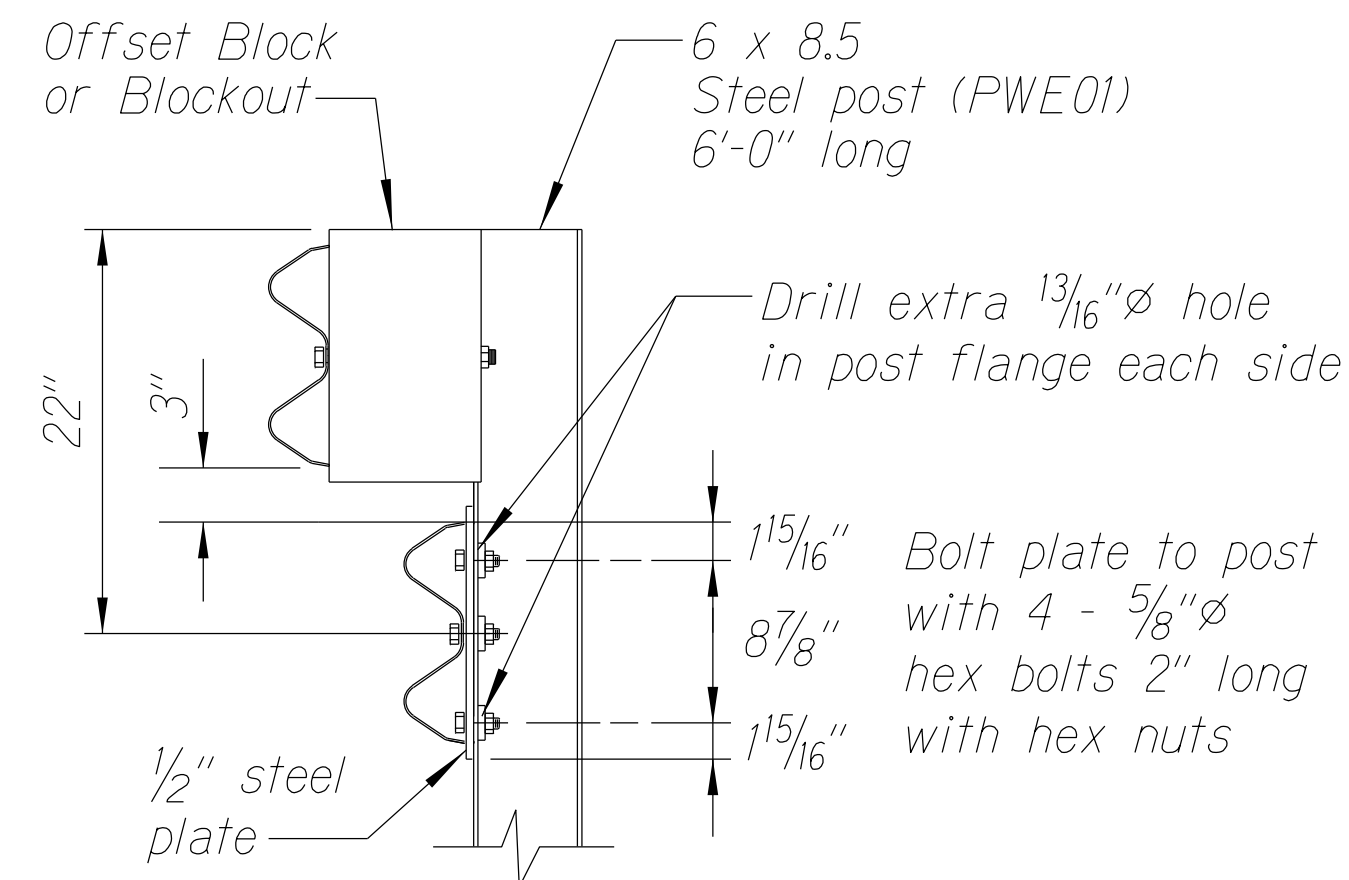
Square Washer
(3/16" Thick - Hot-dip
Zinc Coated Galvanized)



3 - 7/8" ϕ holes to be field drilled in rail
and attached to steel plate with 7/8" ϕ hex
bolts 1 5/16" long with square washer

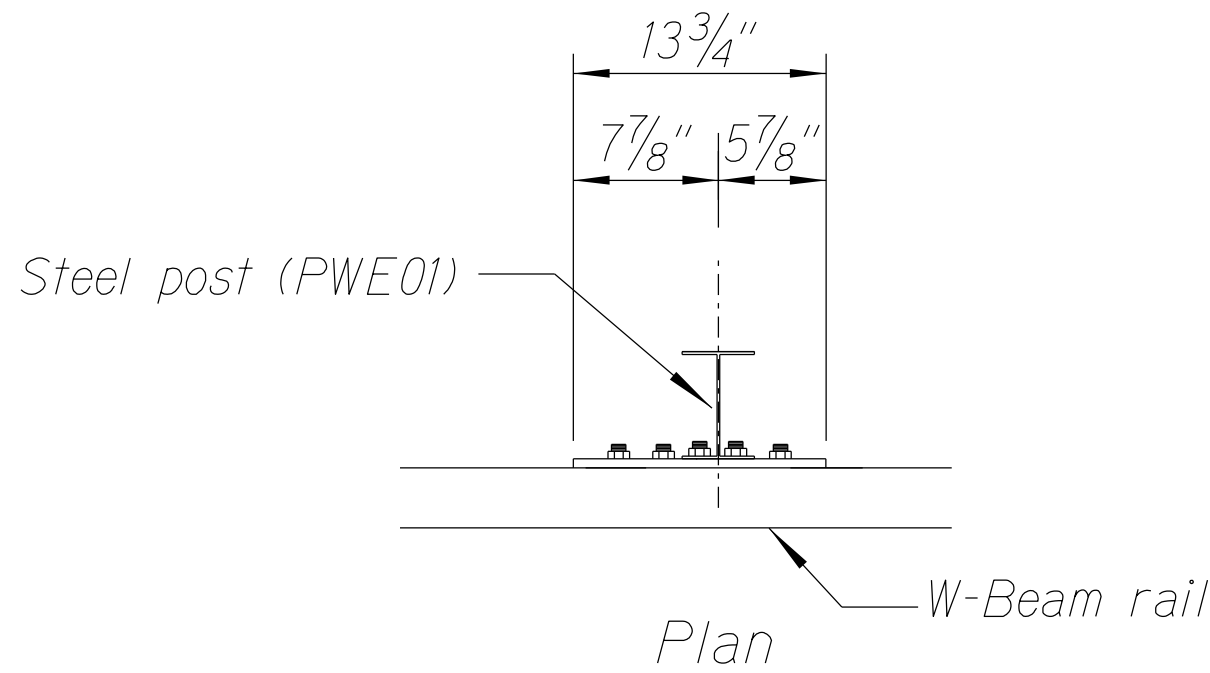
1" ϕ holes to be field drilled in
rail and through post flange.
Attach to steel plate with 7/8" ϕ hex
bolts 2" long with square washer

Front View



Elevation

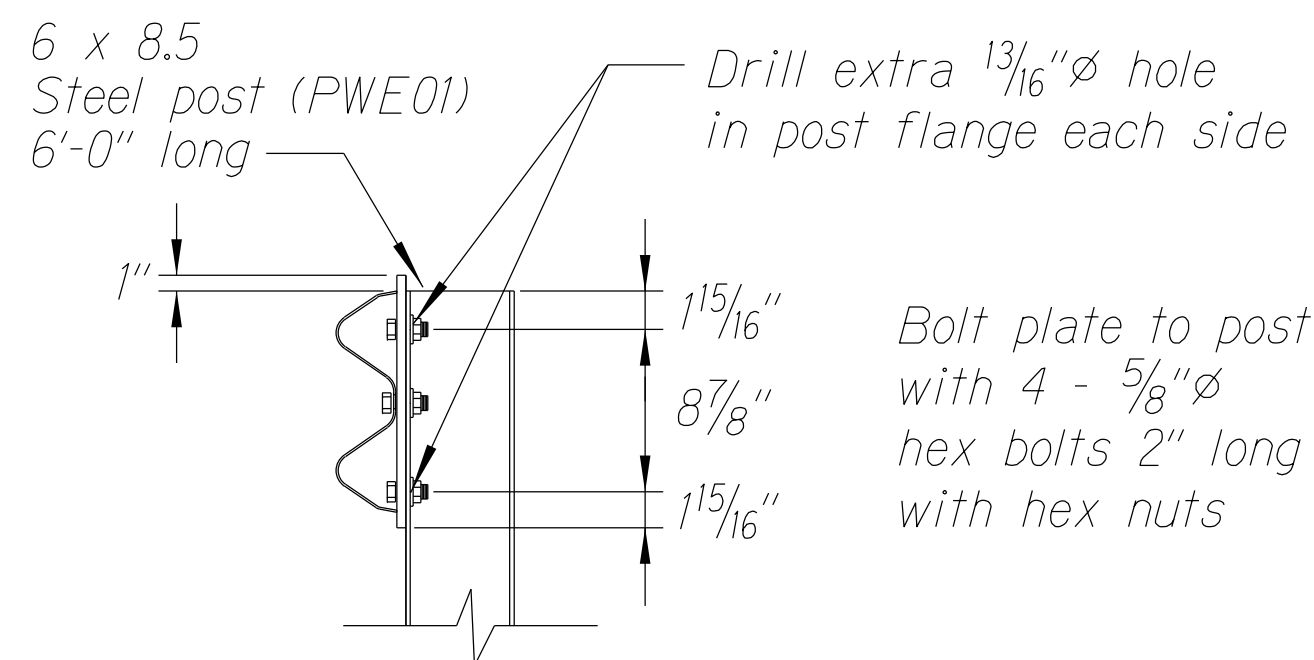
RUBRAIL ANCHOR DETAILS



3 - 7/8" ϕ holes to be field drilled in rail
and attached to steel plate with 7/8" ϕ hex
bolts 1 5/16" long with square washer

1" ϕ holes to be field drilled in
rail and through post flange.
Attach to steel plate with 7/8" ϕ hex
bolts 2" long with square washer

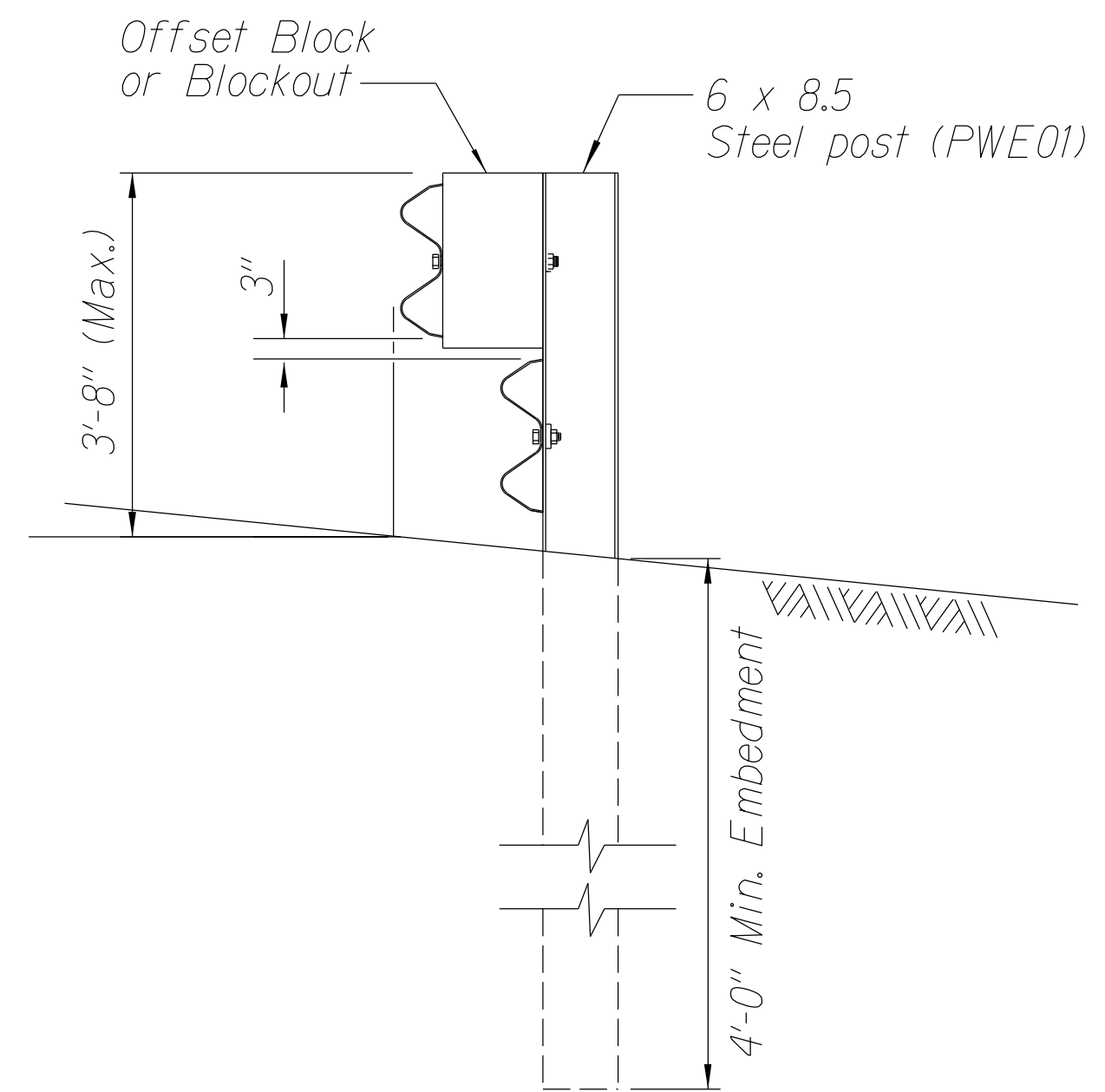
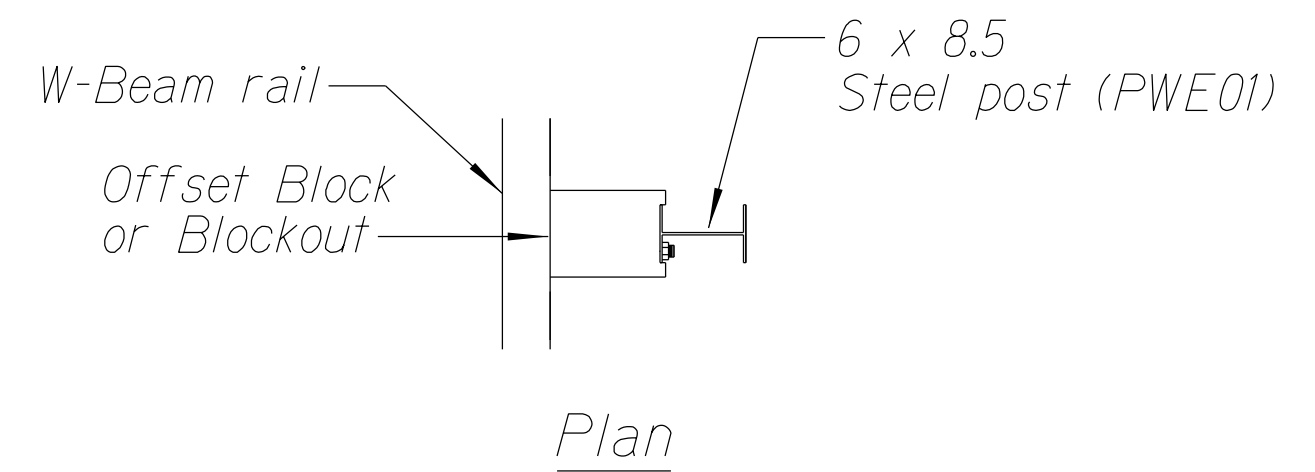
Front View



Elevation

POST ANCHOR DETAILS

RUBRAIL DETAIL FOR MODIFIED TYPE "A-1" FLARE
(WHEN CALLED FOR IN PLANS)



Elevation

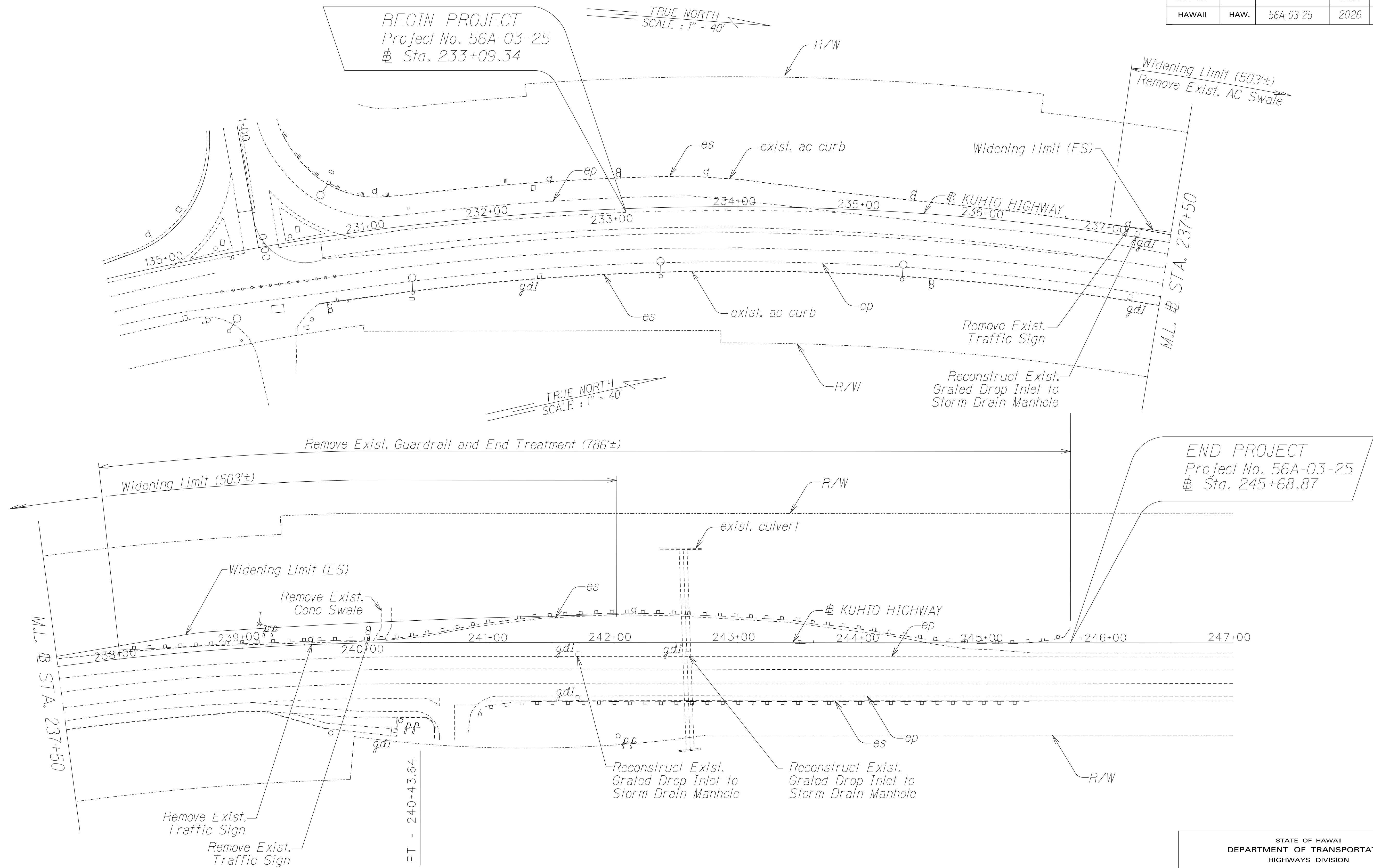
STEEL POST GUARDRAIL
WITH RUBRAIL

Note:

All fasteners, posts, blocks and rail
elements shall conform to the latest
edition and amendments of "A Guide to
Standardized Highway Barrier Rail
Hardware", a report prepared and
approved by the AASHTO-AGCARTBA
Joint Cooperative Committee.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<u>MODIFIED TYPE "A-1" FLARE</u> <u>RUBRAIL DETAILS</u> KUHIO HIGHWAY INTERSECTION IMPROVEMENTS Vicinity of Pineapple Store Project No. 56A-03-25
Scale: NTS Date: Dec. 2025
SHEET No. 5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	19	28



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

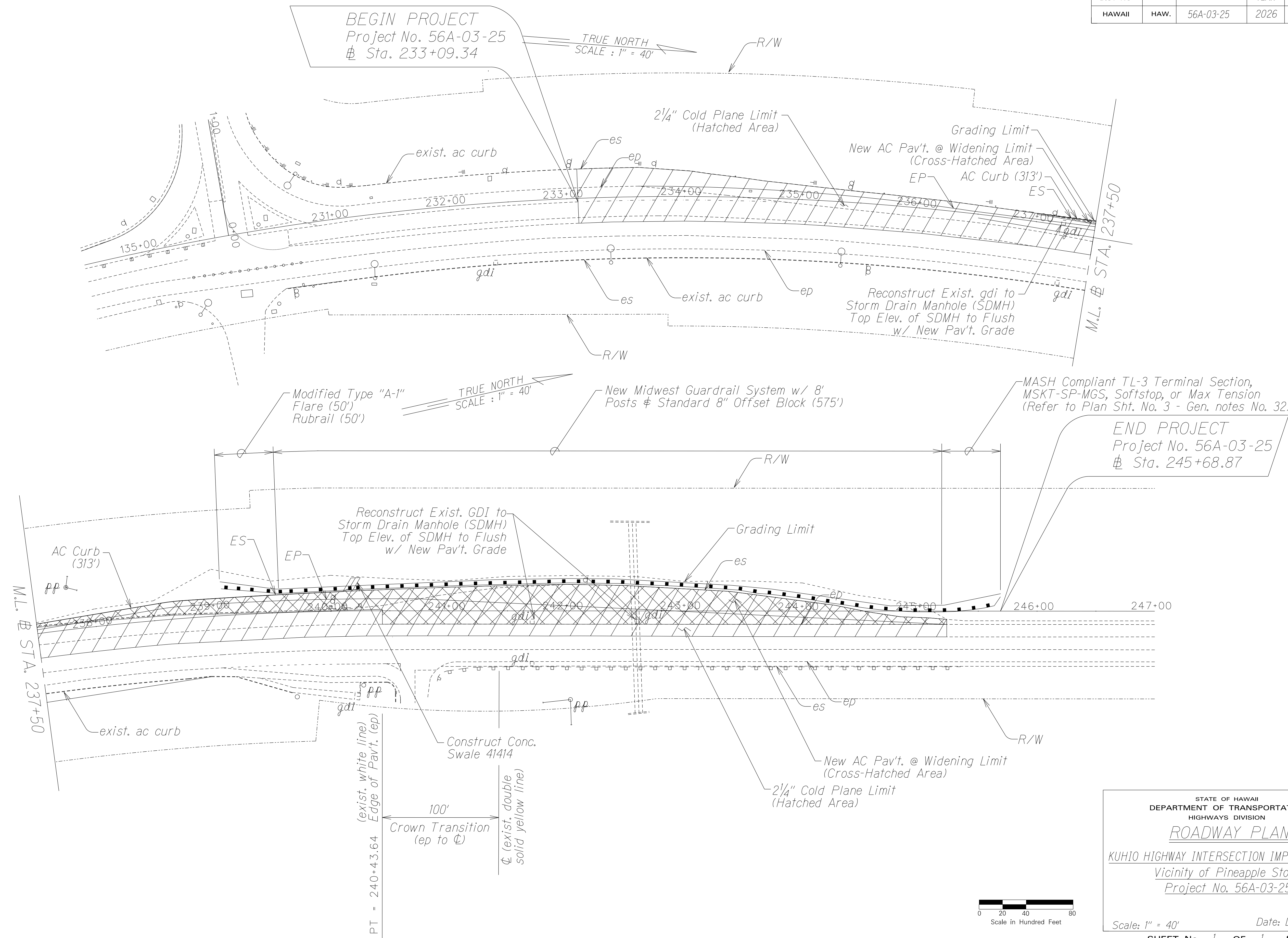
GENERAL ROADWAY
IMPROVEMENT PLAN

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

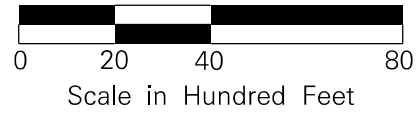
Scale: 1" = 40' Date: Dec. 2025

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	20	28



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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

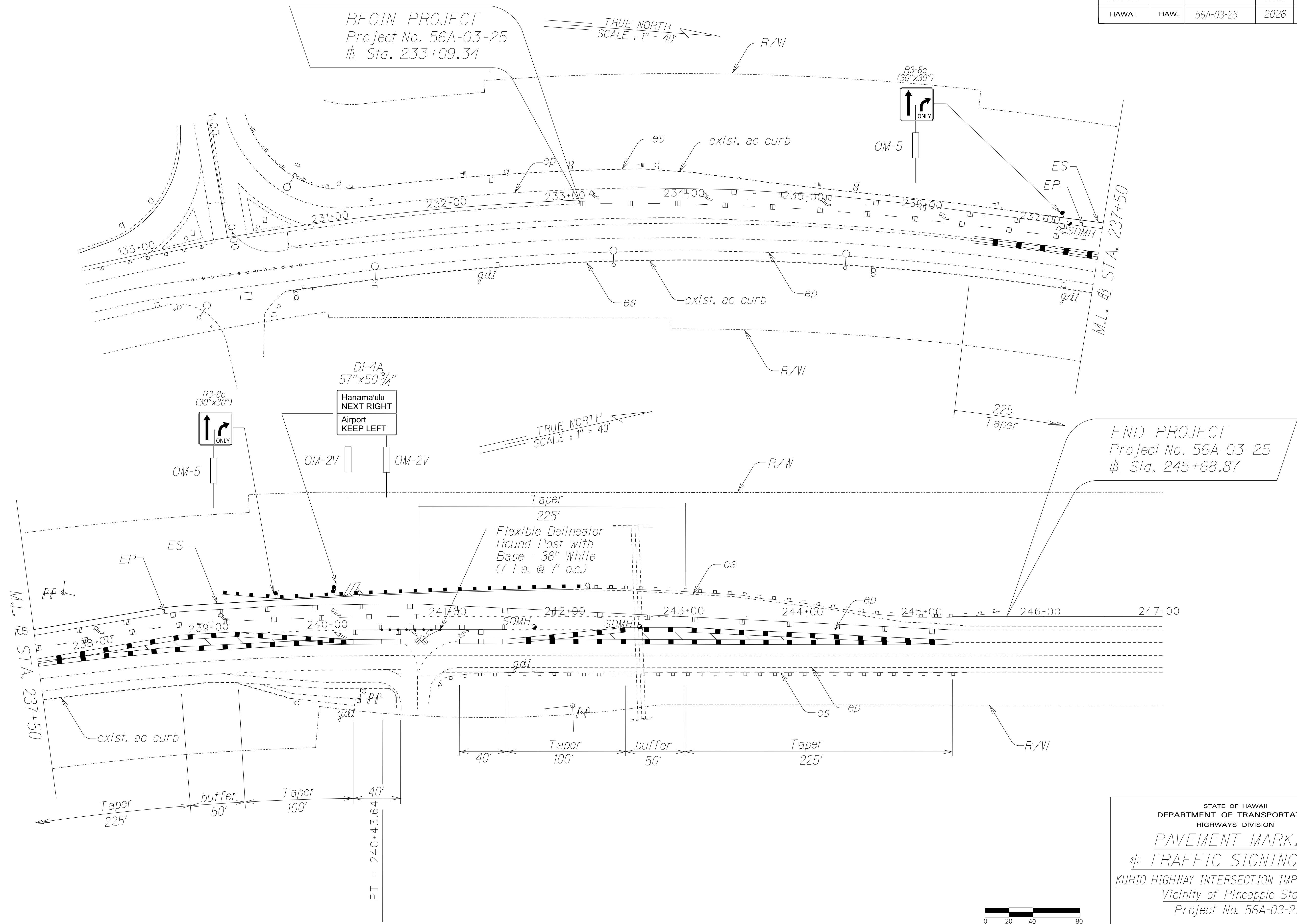
ROADWAY PLAN

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: 1" = 40' Date: Dec. 2025

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	22	28



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

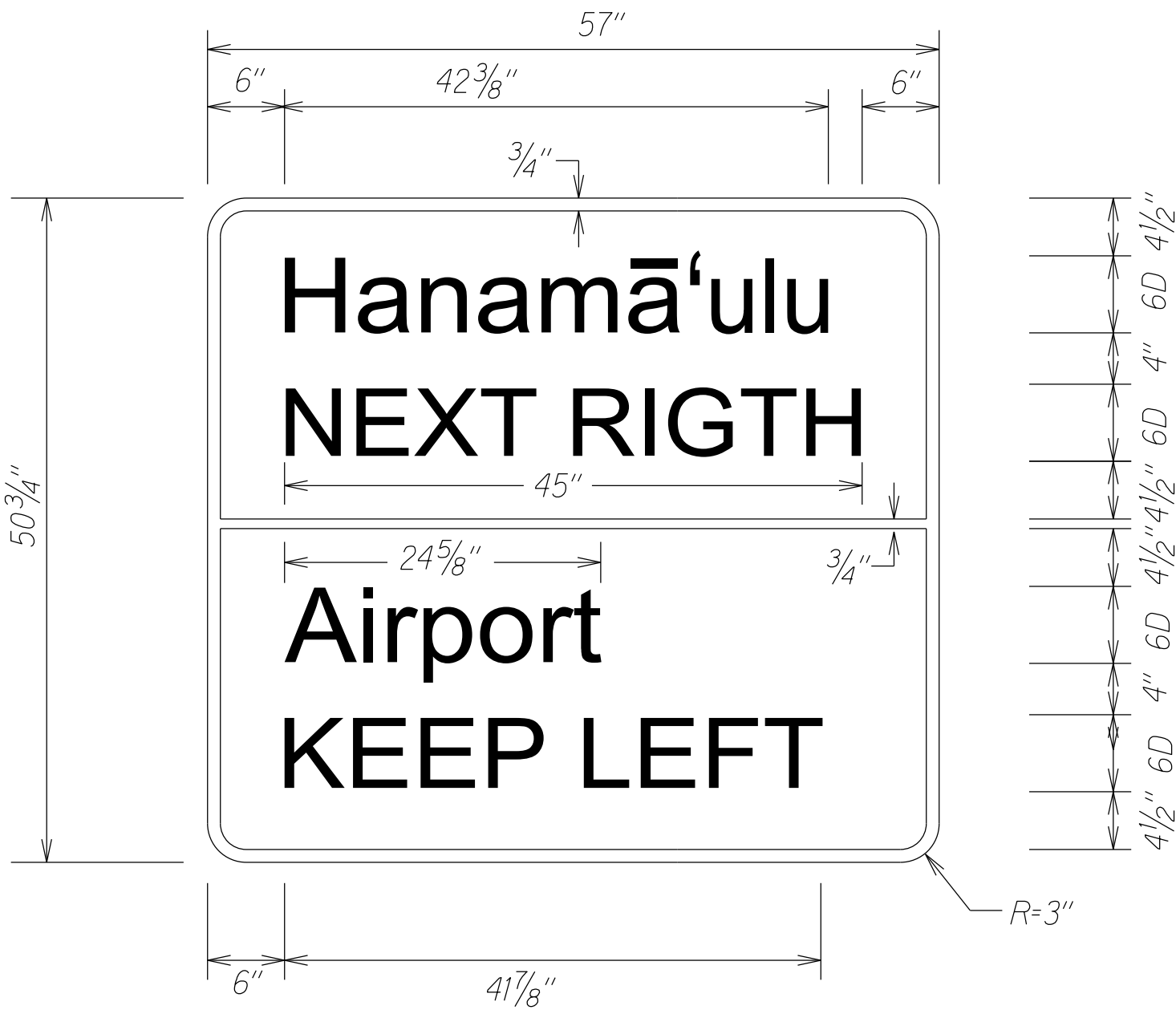
**PAVEMENT MARKING
& TRAFFIC SIGNING PLAN**

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: 1" = 40' Date: Dec. 2025

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	23	28

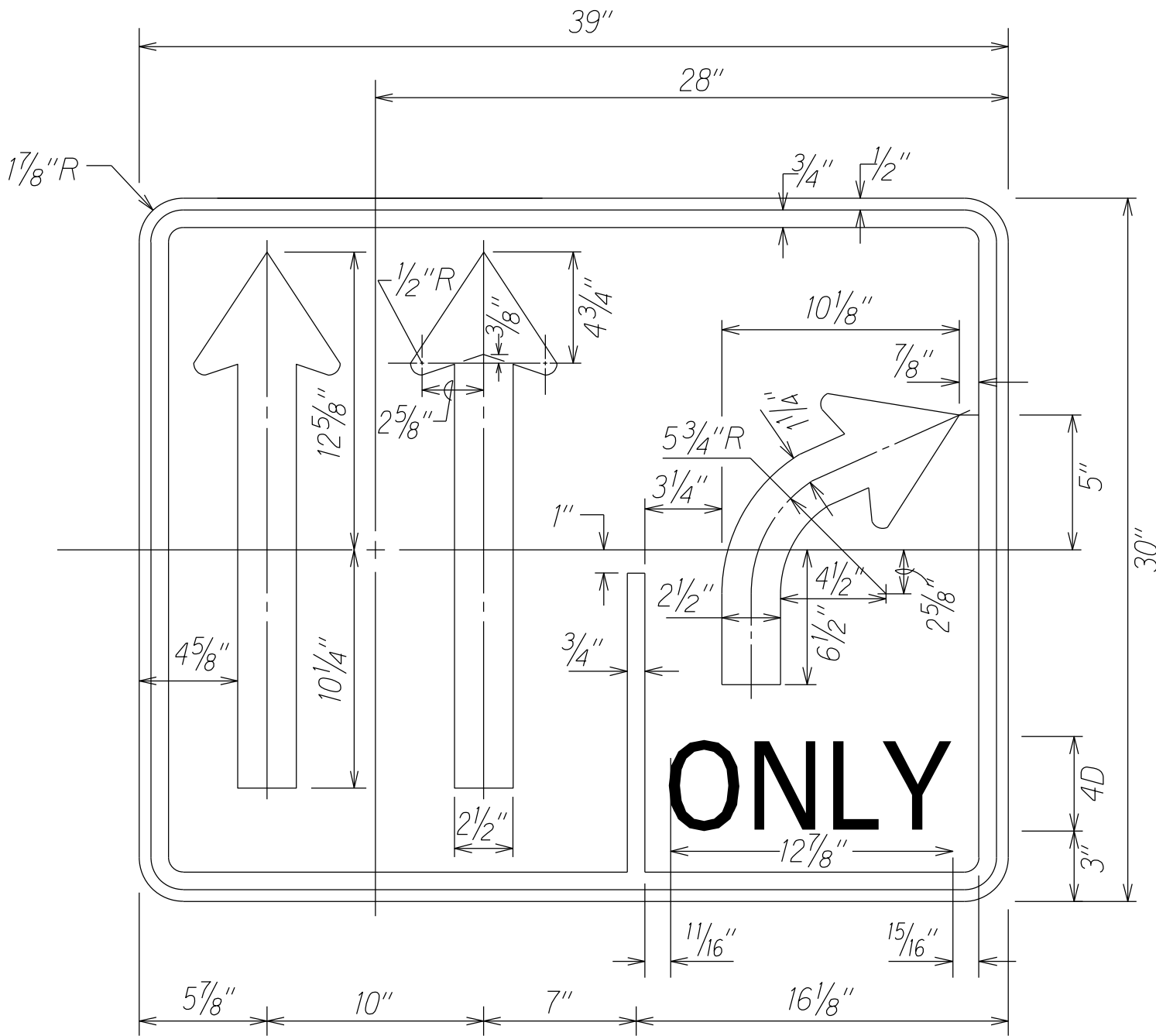


Sign Support: 2-4.00 lbs./ft. Flanged Channel Post
Flat Panel

DI-4a
Not to Scale

Legend: White (Retroreflective)
Background: Green (Retroreflective)

DESTINATION SIGN



R3-38a
Not to Scale

REGULATORY SIGN

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

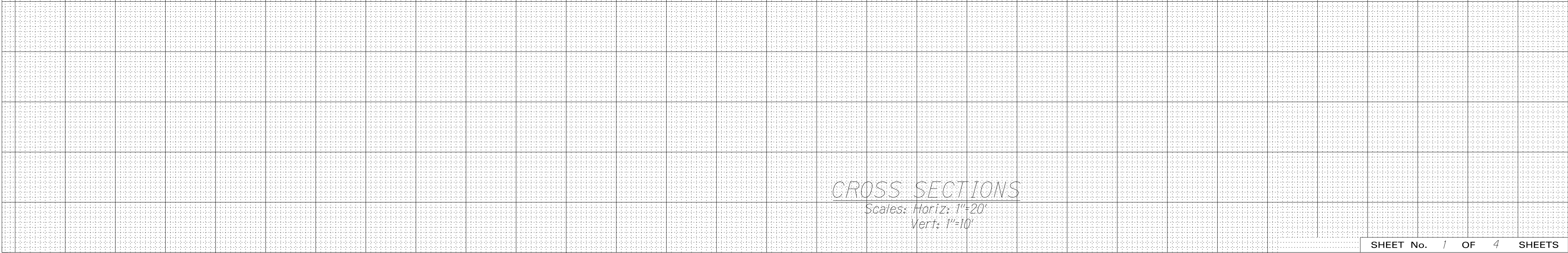
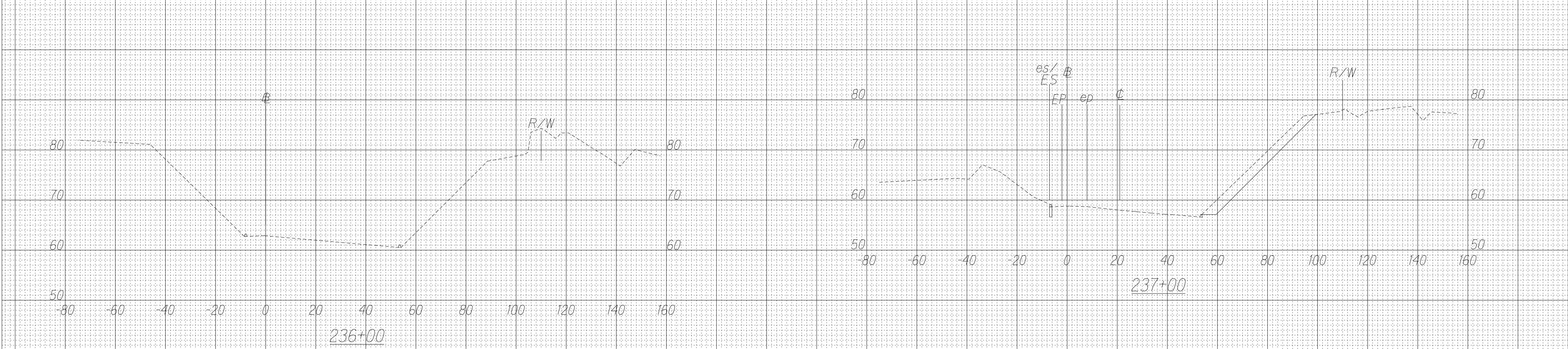
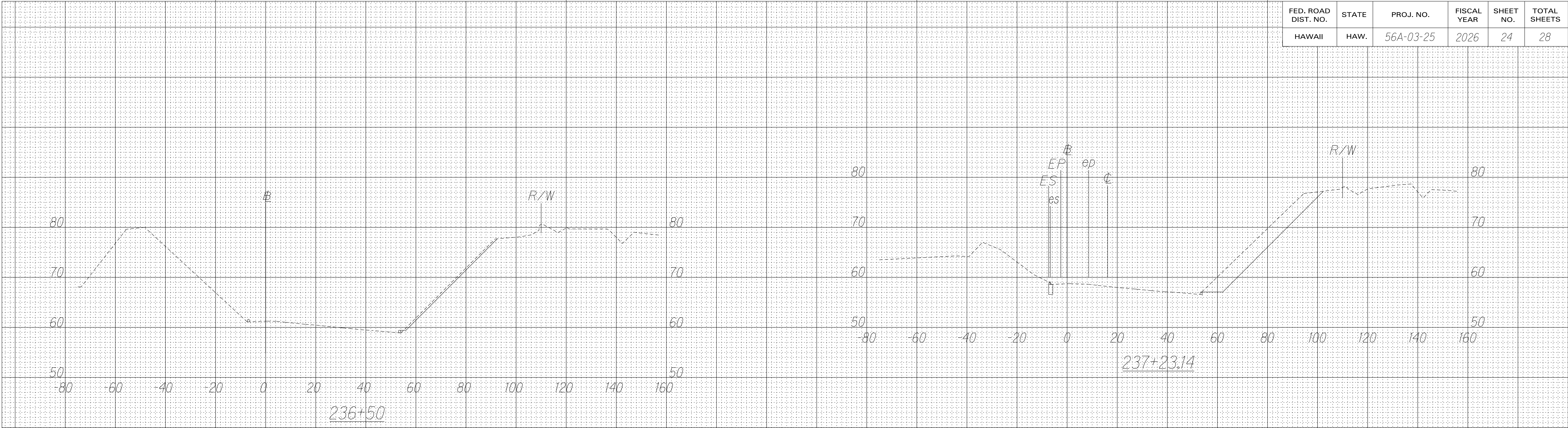
SIGN DETAIL

KUHIO HIGHWAY INTERSECTION IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: NTSDate: Dec. 2025

SHEET No. 1 OF 1 SHEETS

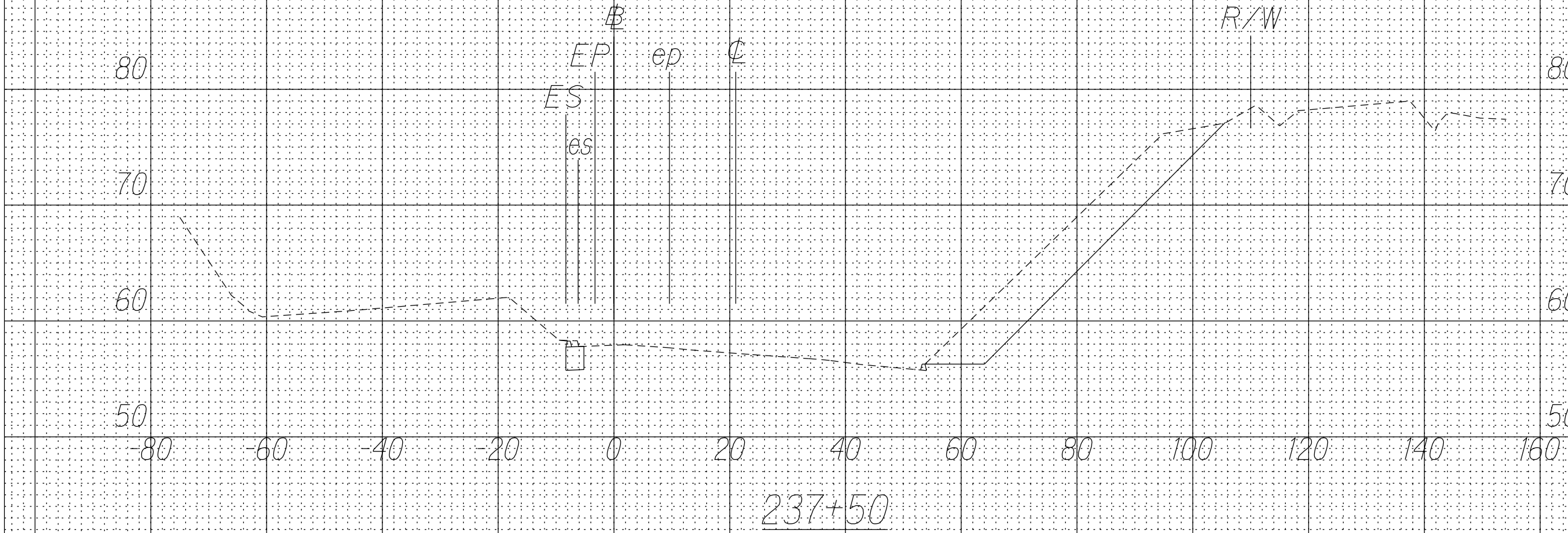
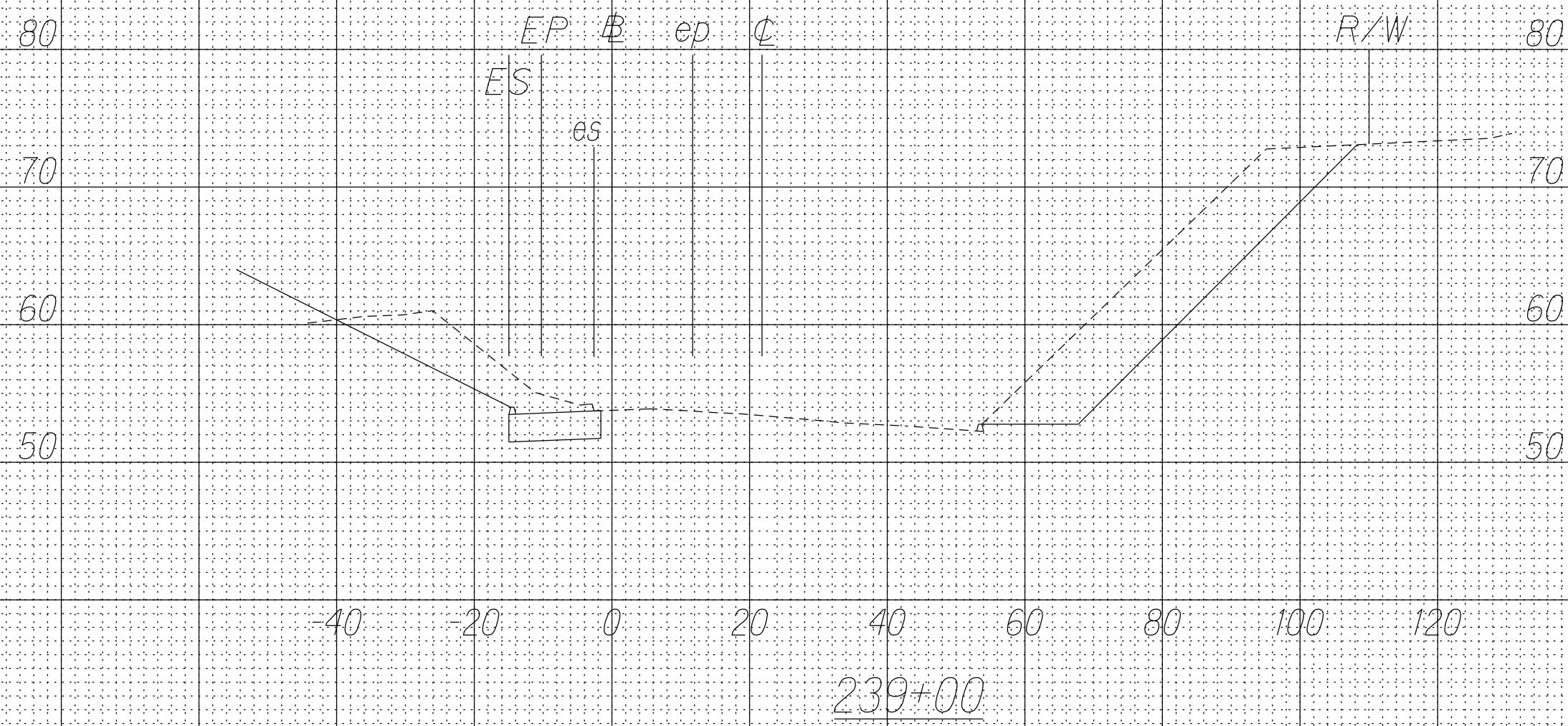
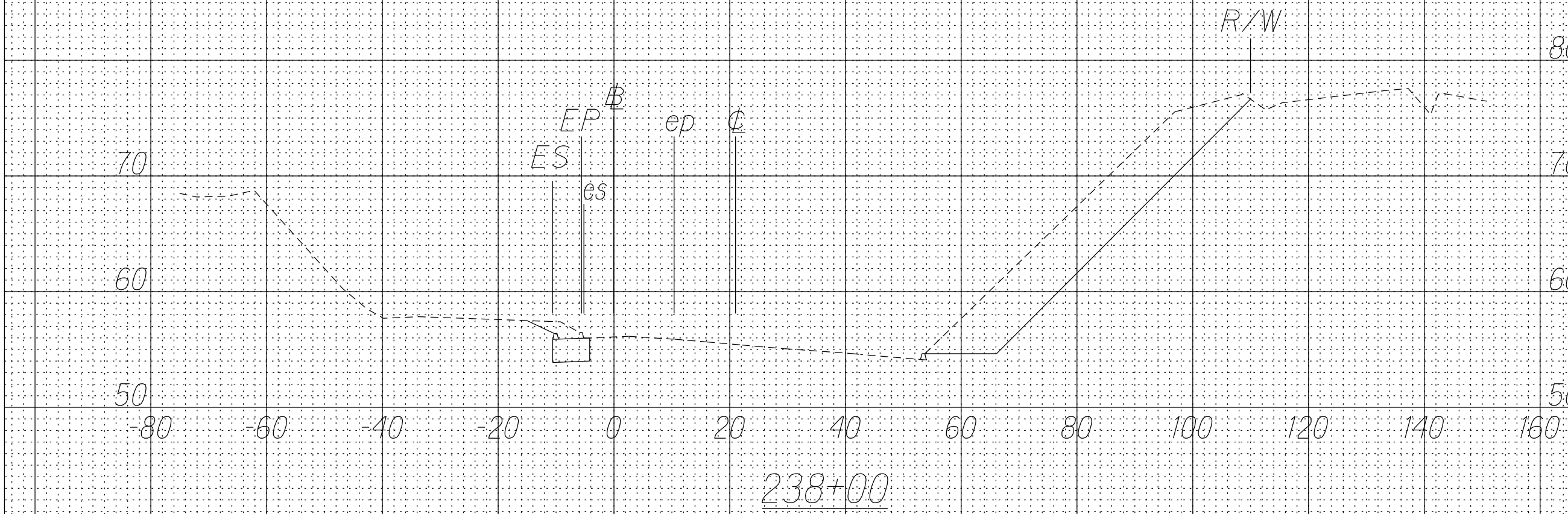
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	24	28



CROSS SECTIONS
Scales: Horiz: 1"=20'
Vert: 1"=10'

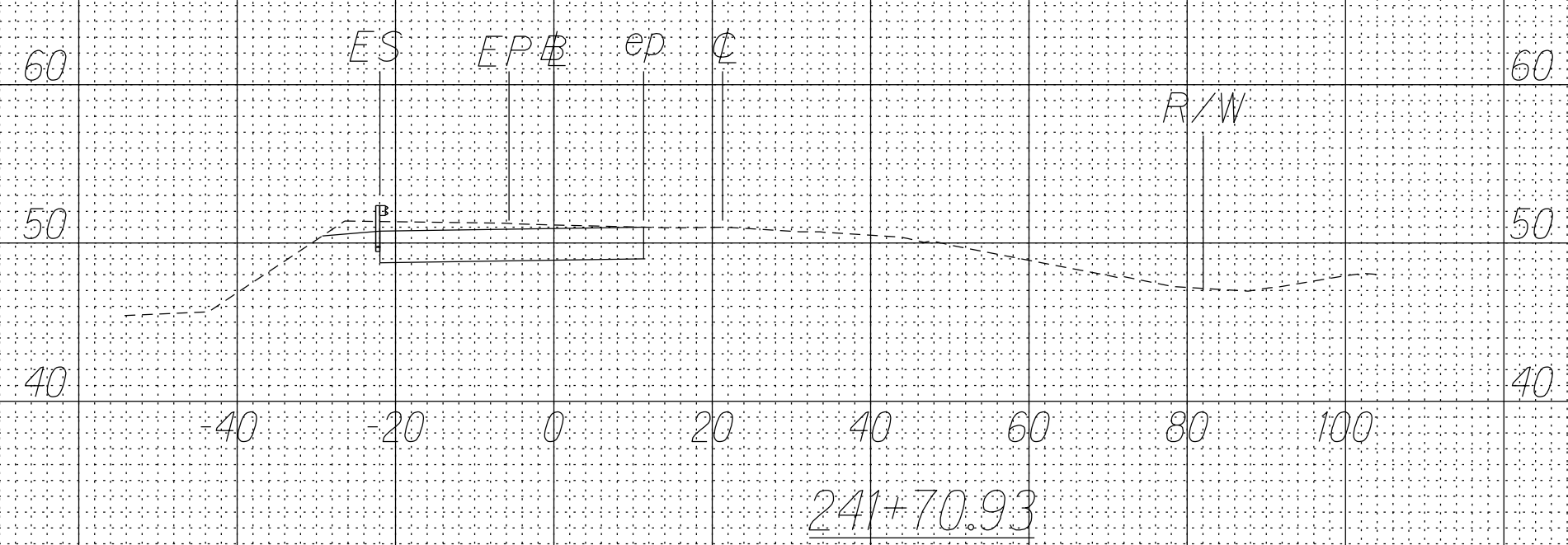
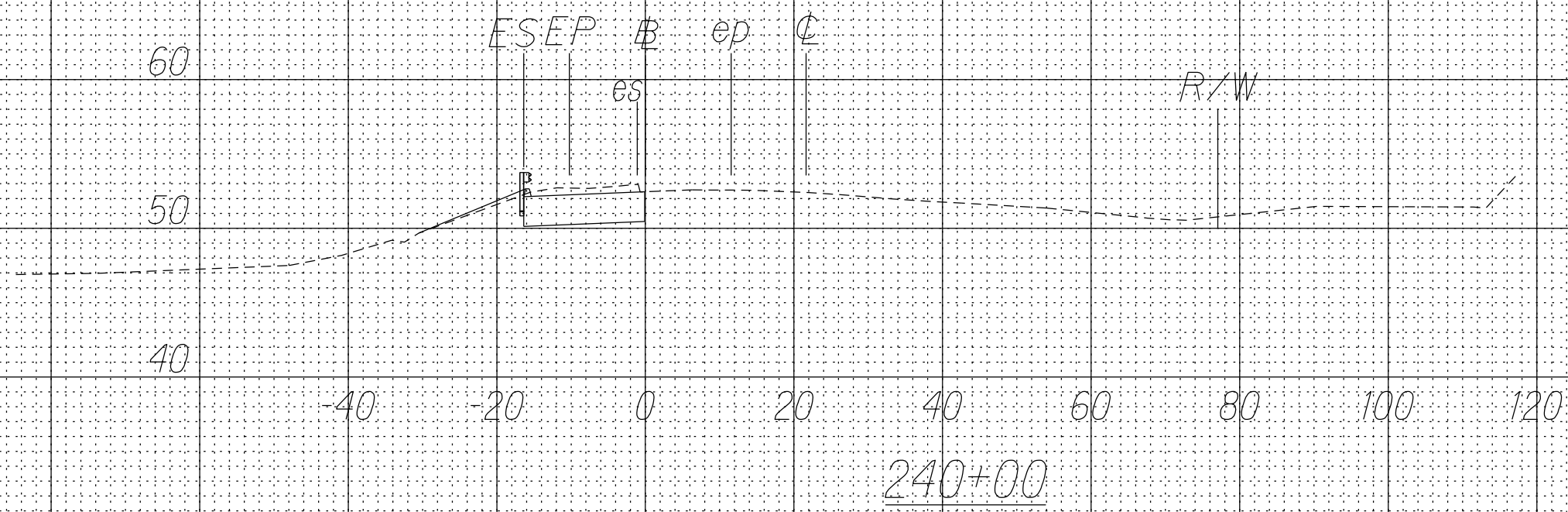
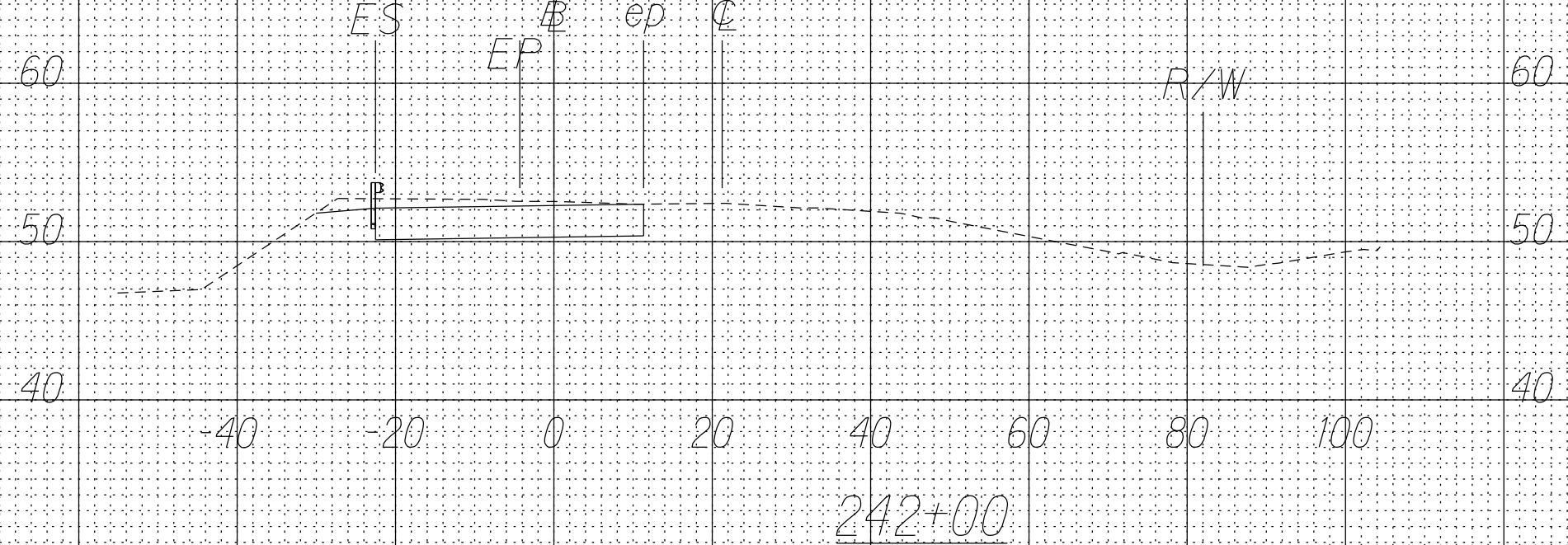
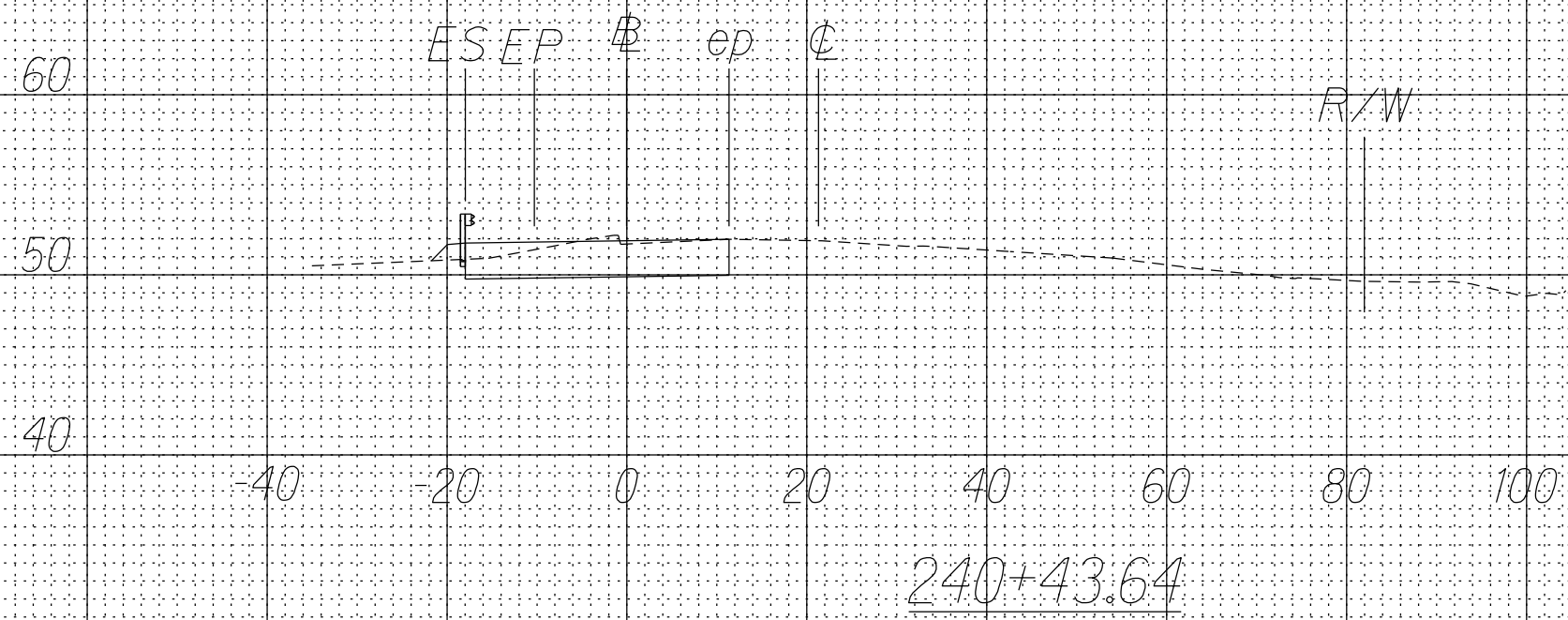
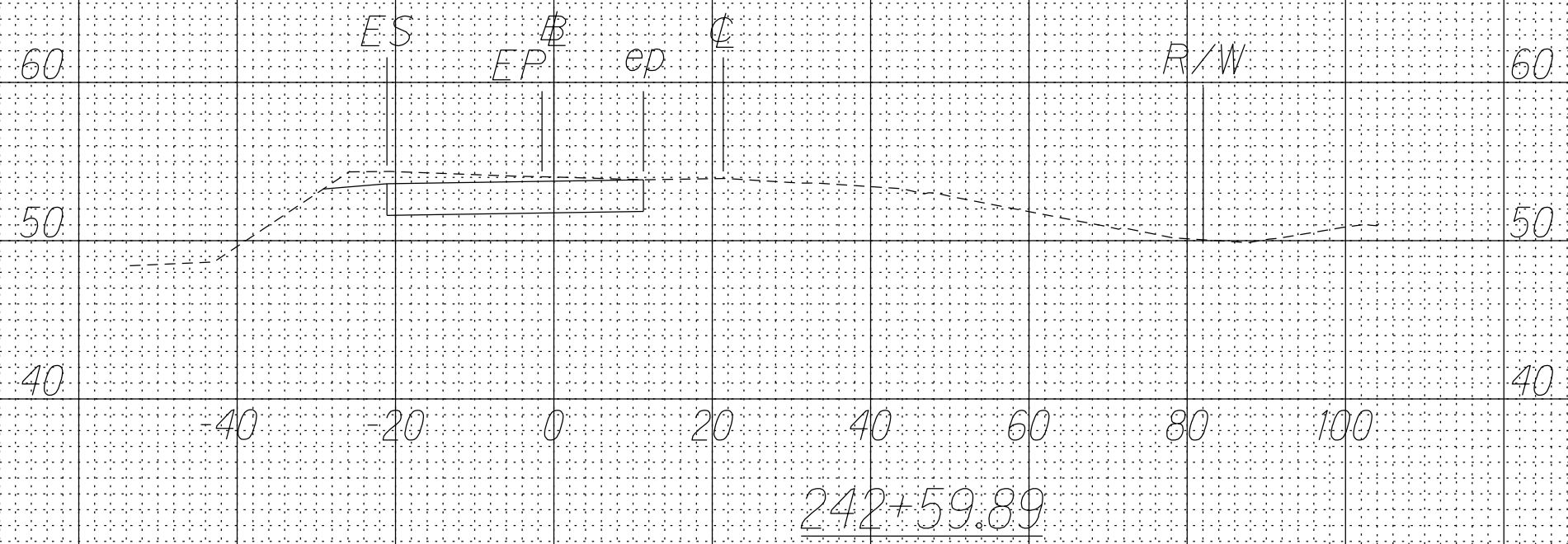
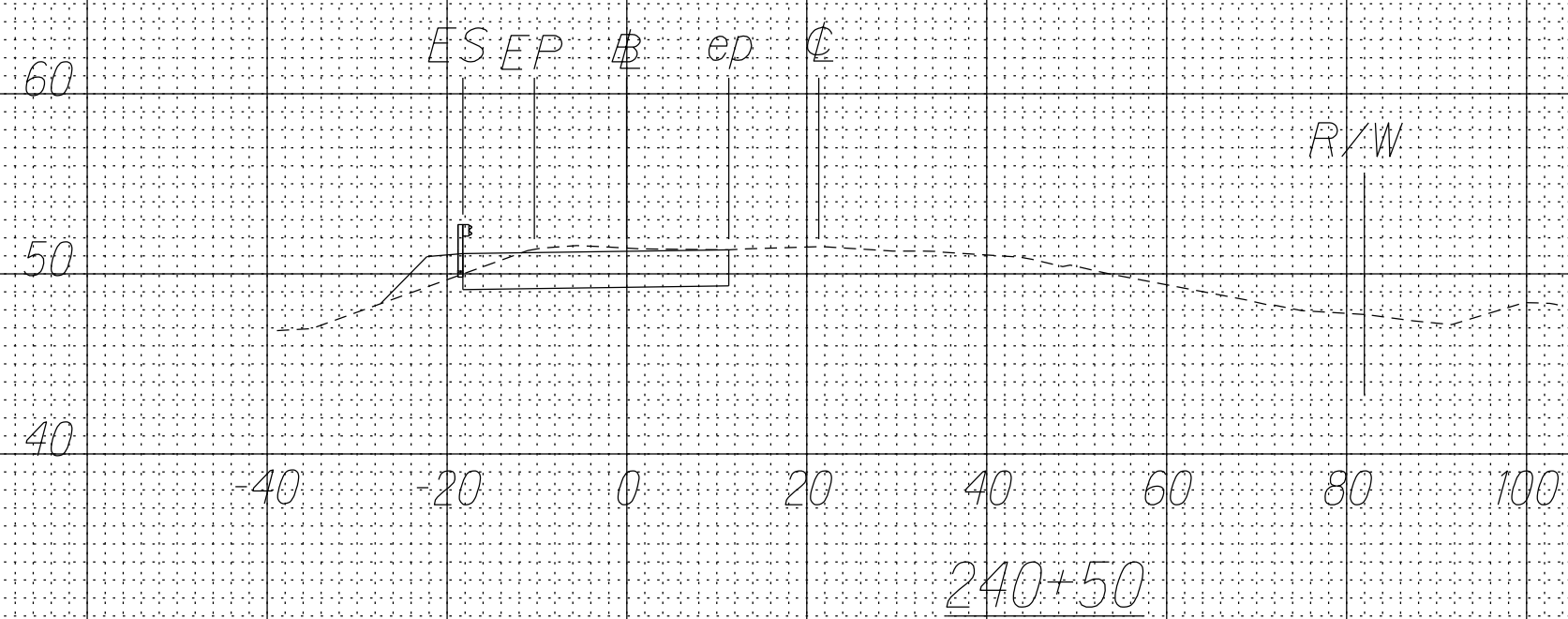
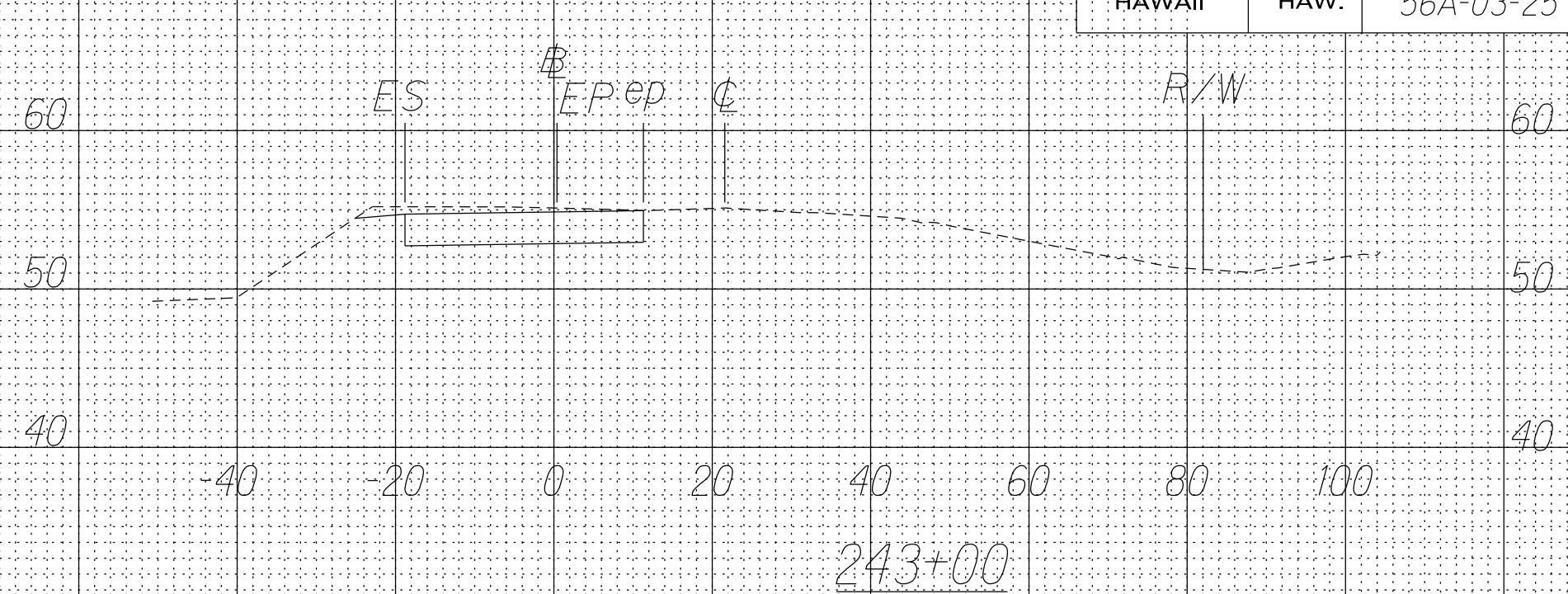
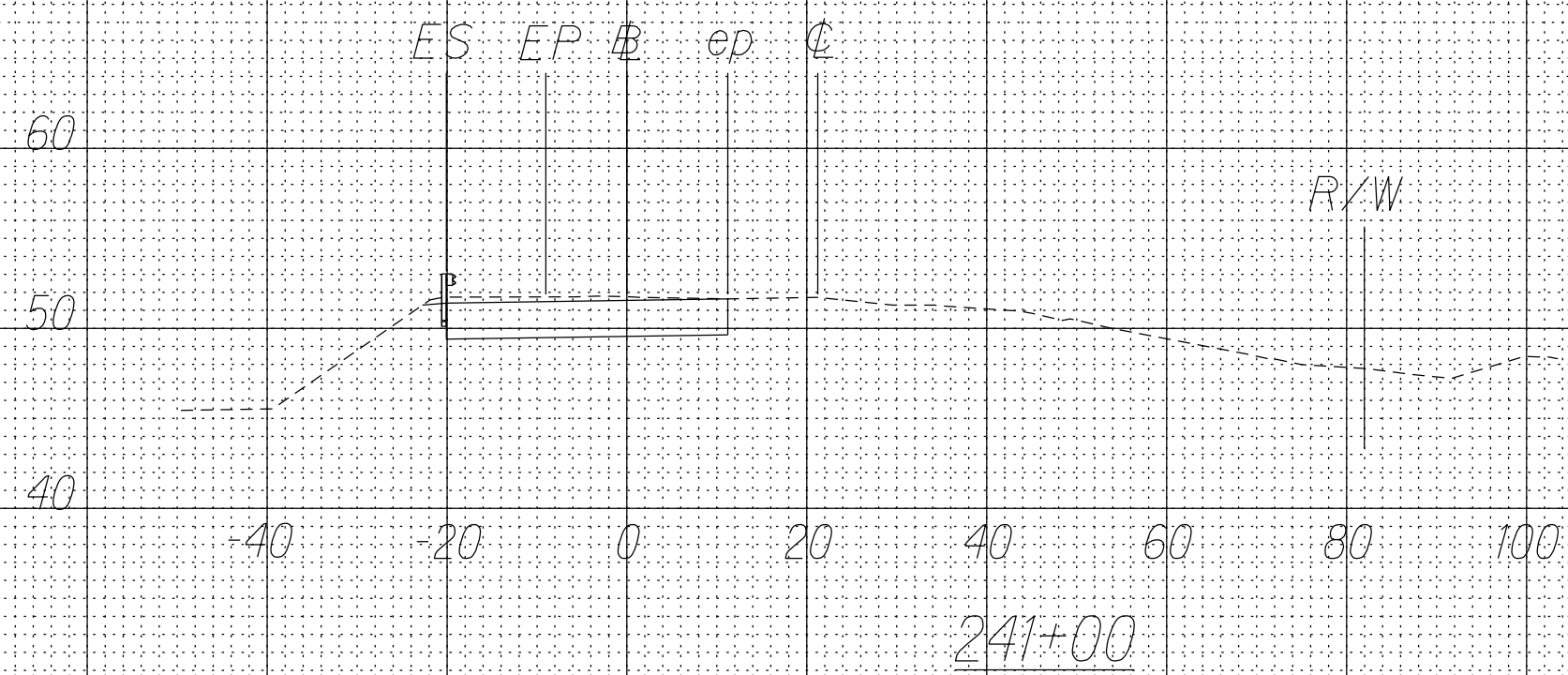
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	25	28



CROSS SECTIONS
Scales: Horiz: 1"=20'
Vert: 1"=10'

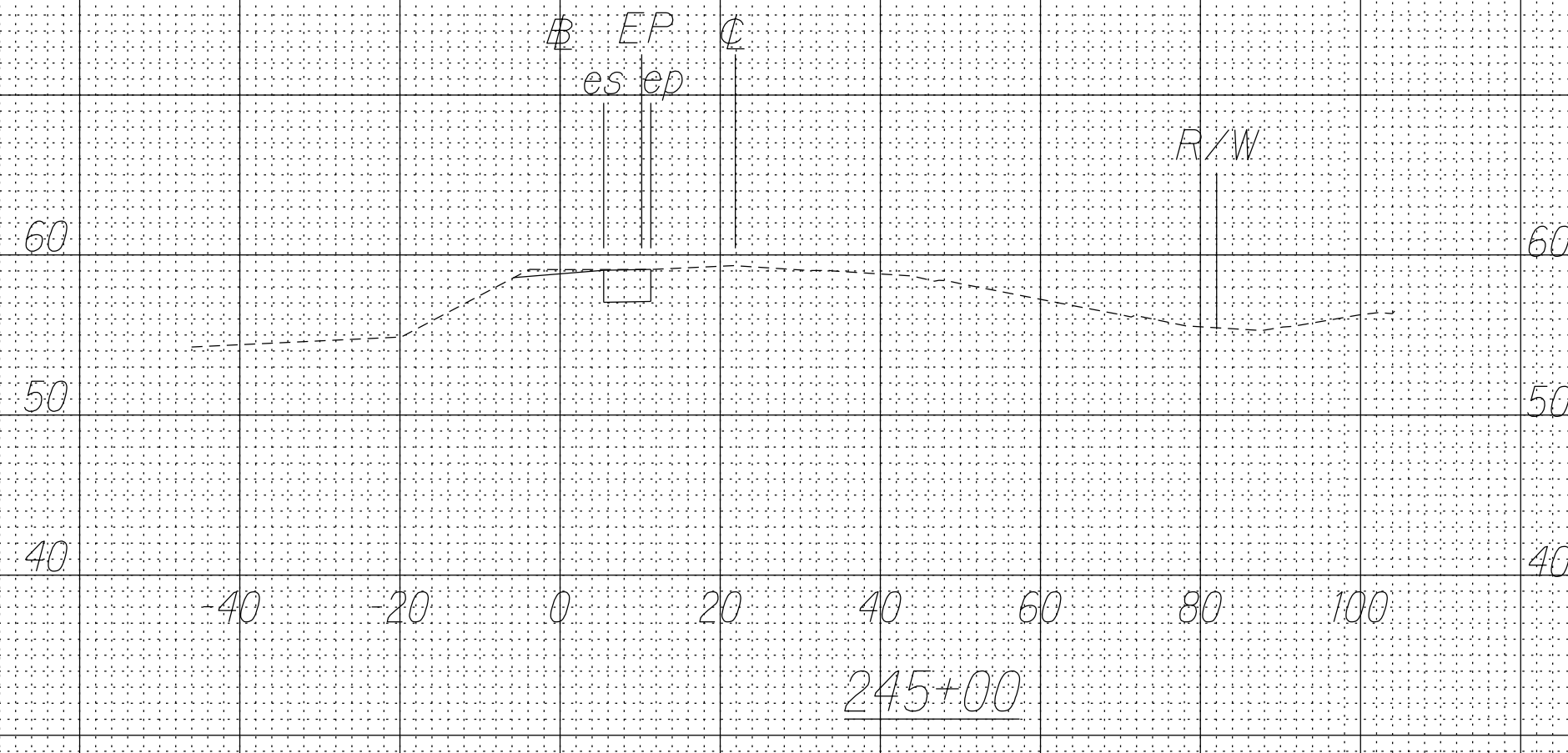
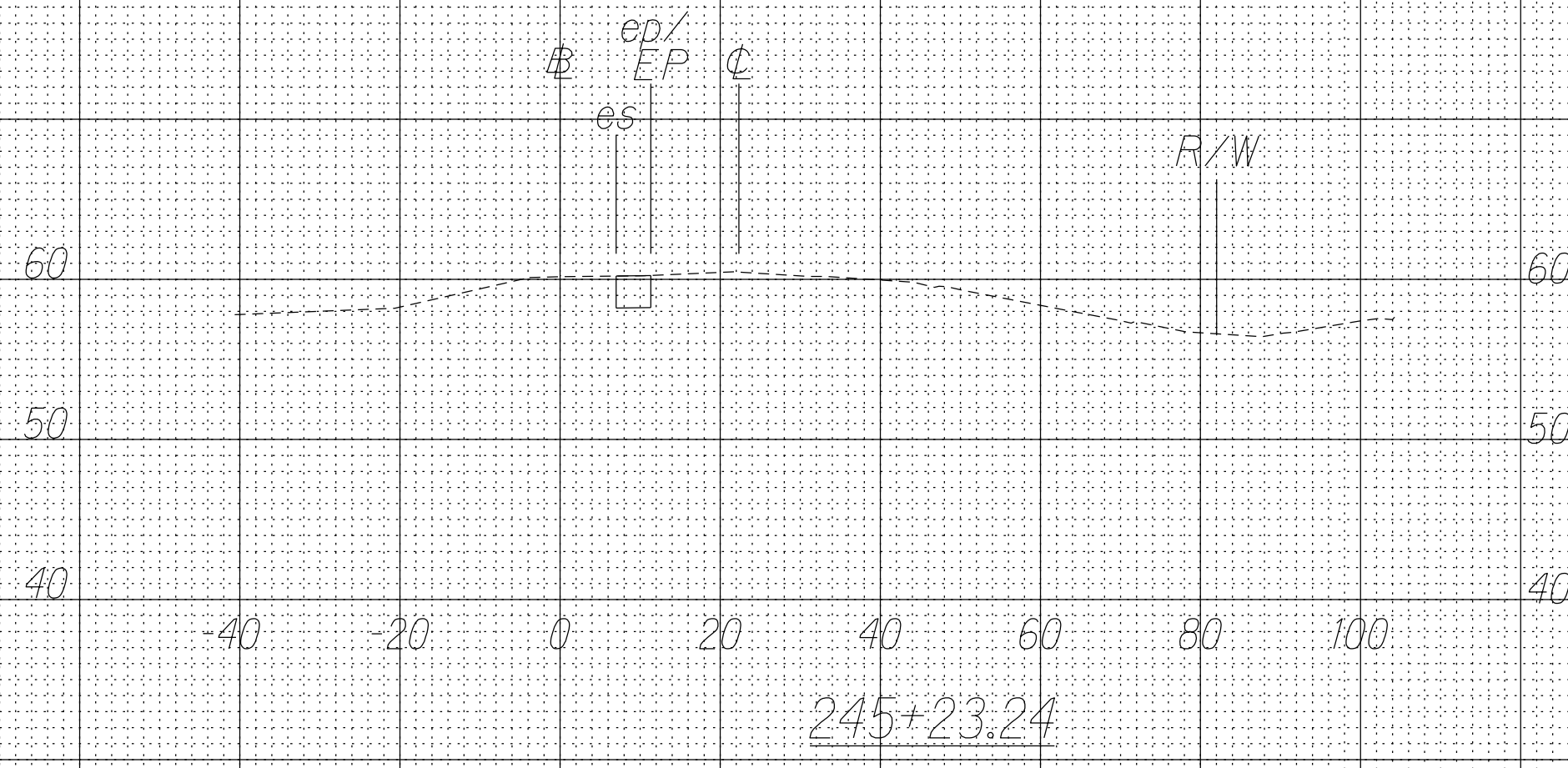
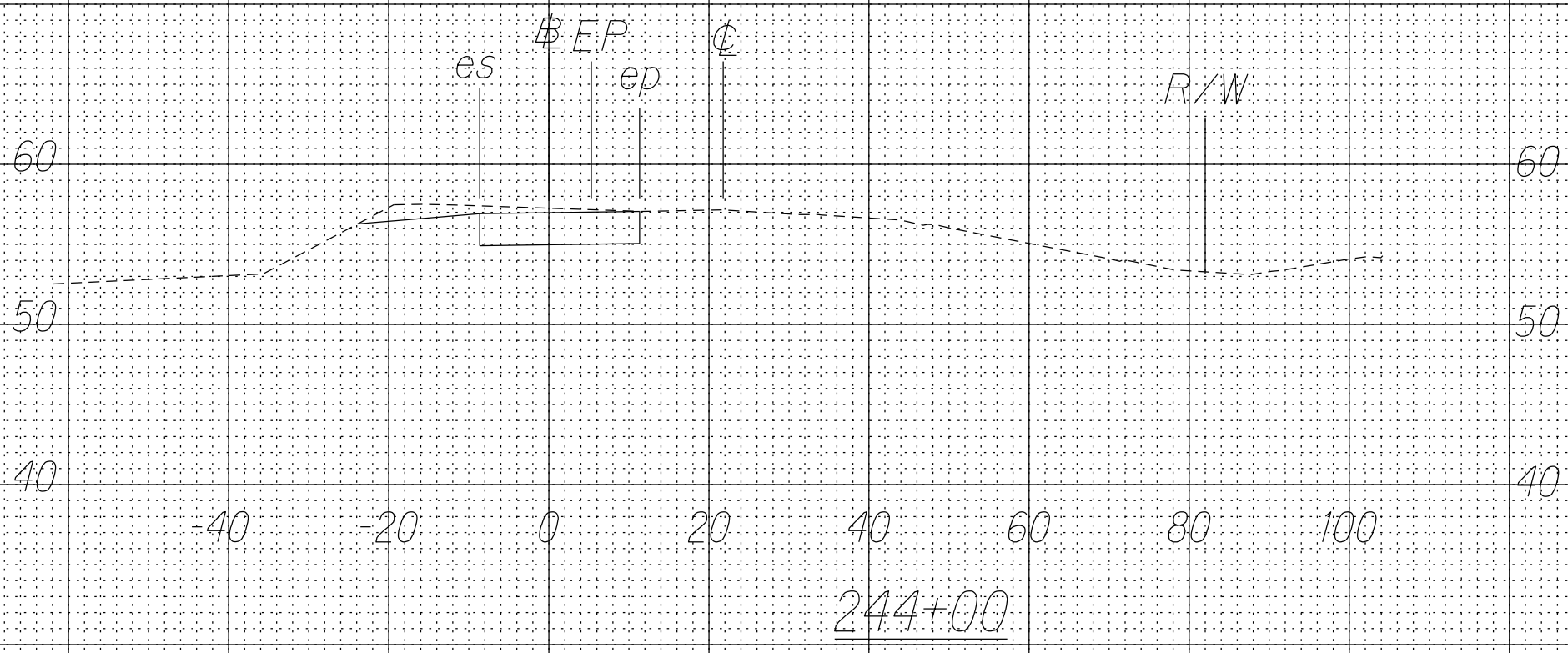
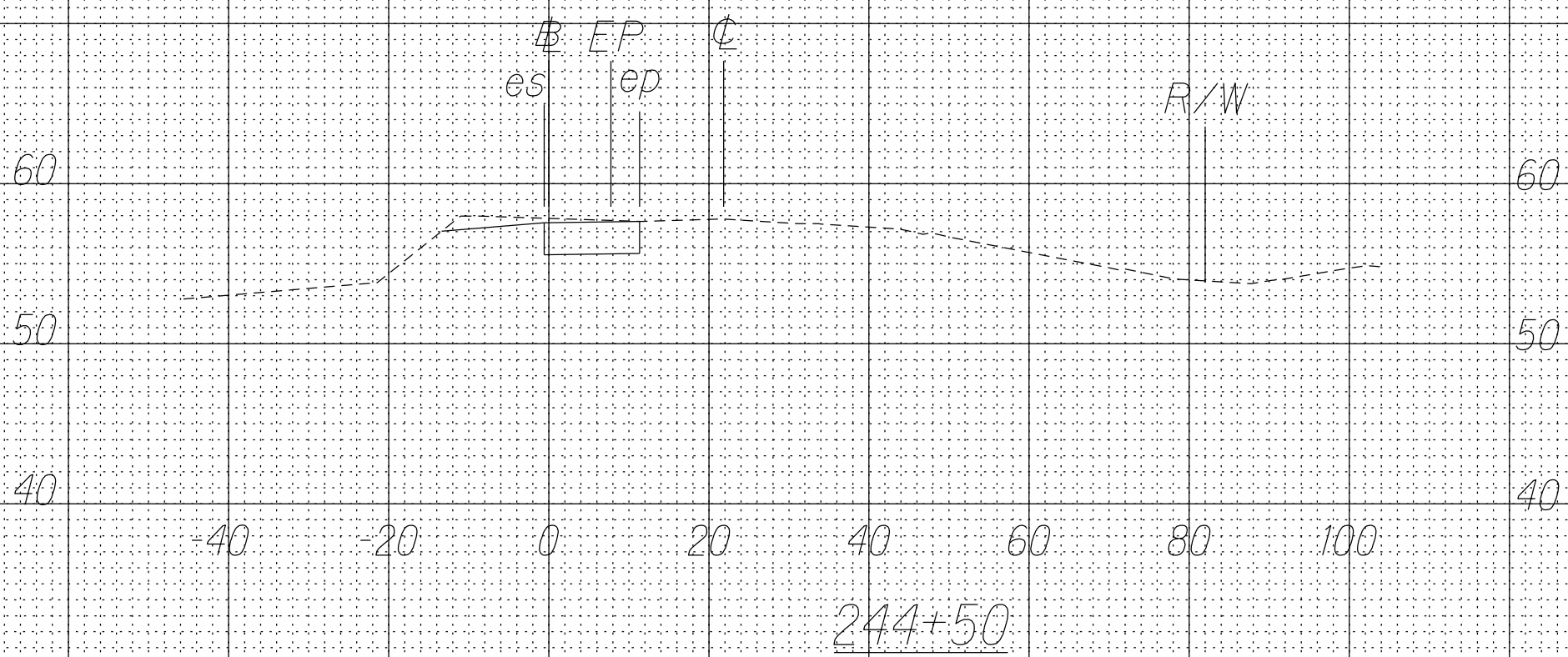
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	26	28



CROSS SECTIONS
Scales: Horiz. 1"=20'
Vert. 1"=10'

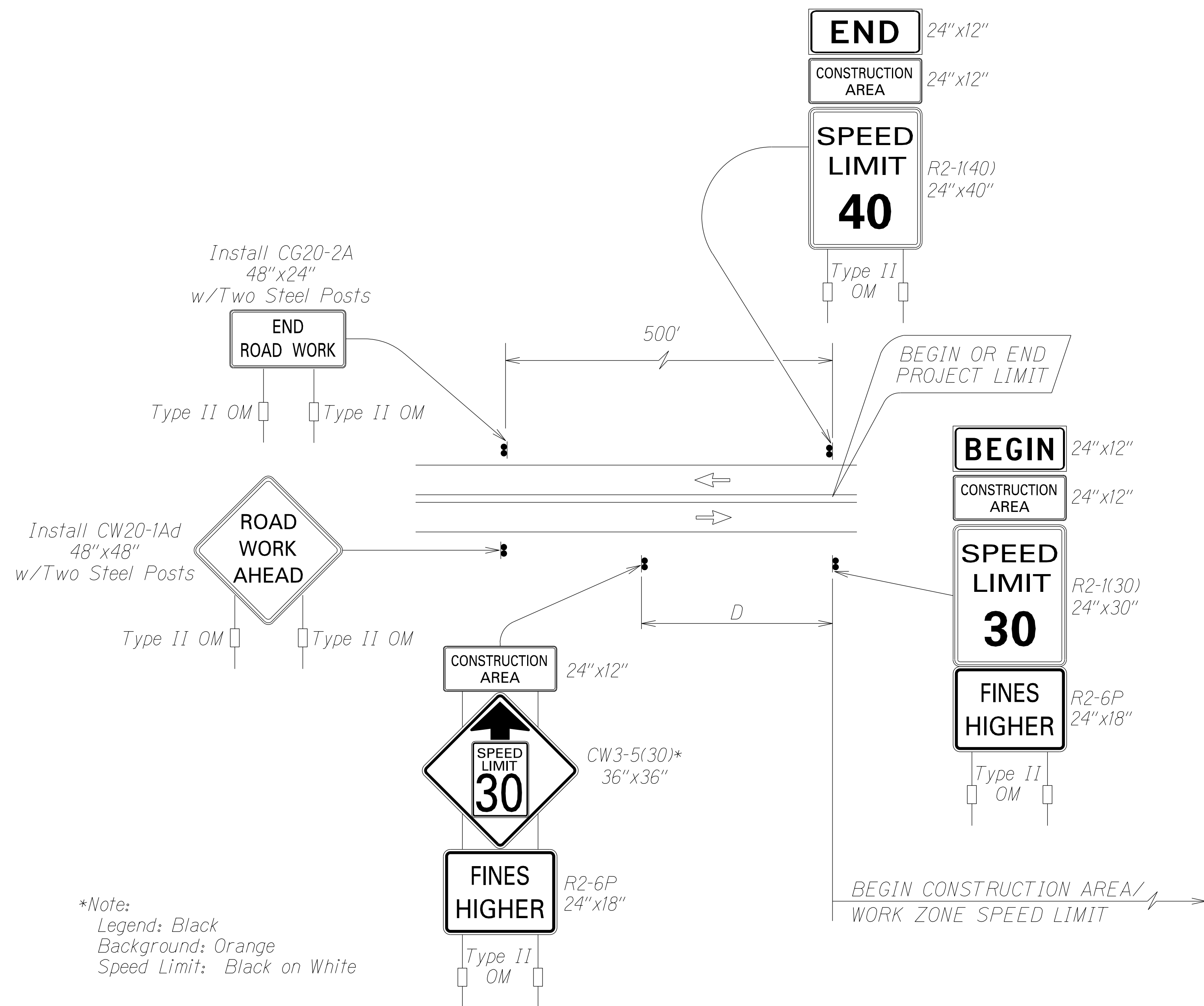
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	1
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	27	28



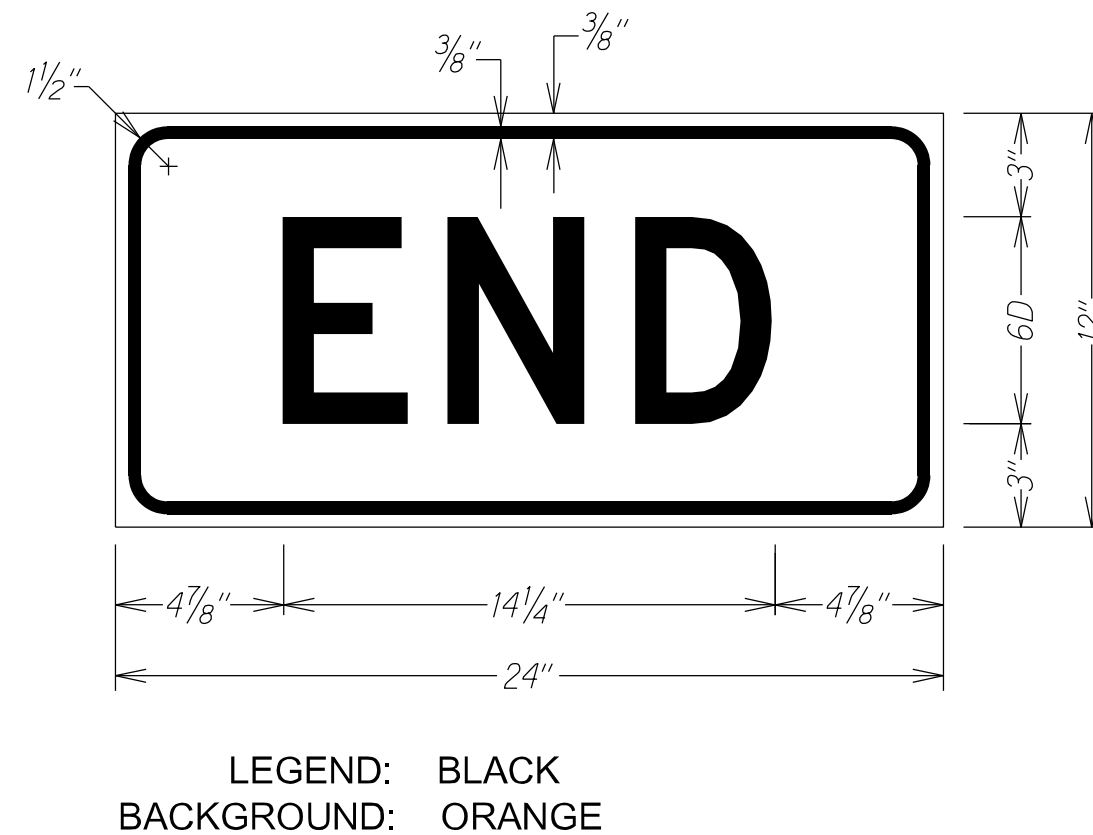
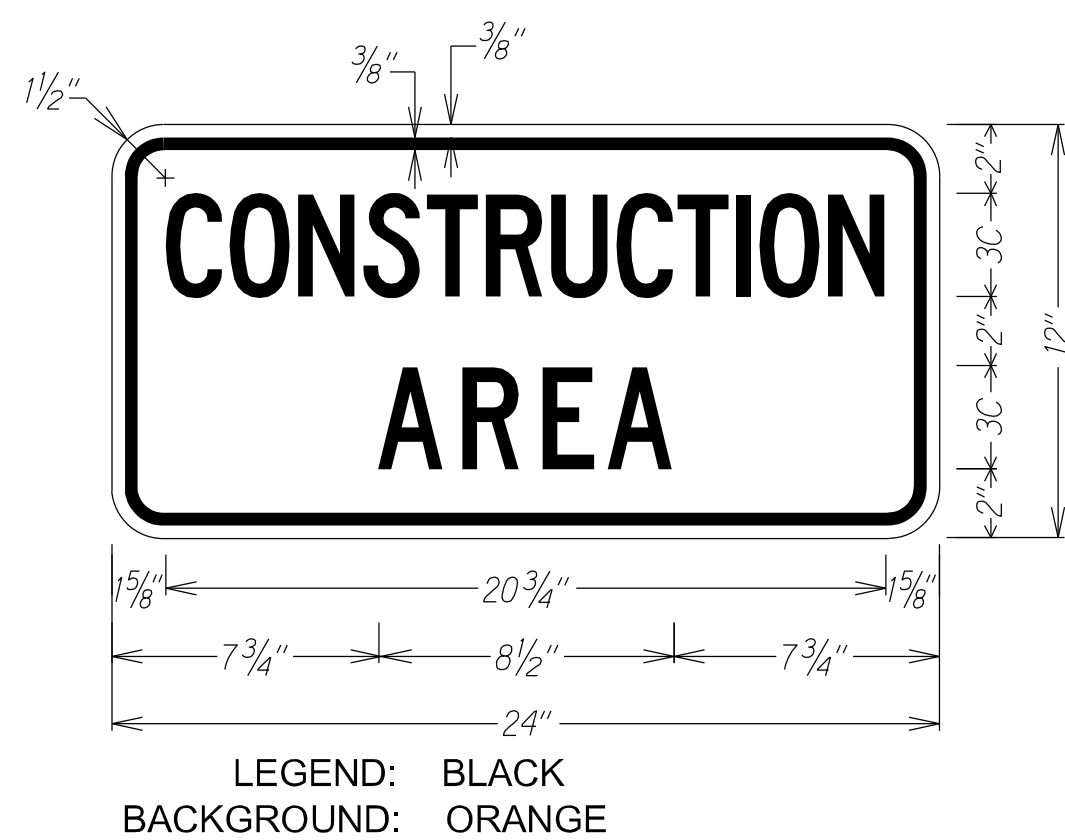
CROSS SECTIONS
Scales: Horiz: 1"=20'
Vert: 1"=10'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-03-25	2026	28	28



- Work Zone Notes:
1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
 2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(30) and CW3-5(30) with "CONSTRUCTION AREA" and R2-6P "FINES HIGHER" Supplemental Signs).
 3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
 4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to various pay items and shall not be paid for separately.
 5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations. Dates, times, locations and description of work for each sign location shall be provided to the engineer in writing.
 6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
 7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to various pay items and shall not be paid for separately.

TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED LOW SPEED HIGHWAY



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOW SPEED UNDIVIDED HIHGWAY
WORK ZONE SIGNING PLAN, NOTES&DETAILS
KUHIO HIGHWAY SAFETY IMPROVEMENTS
Vicinity of Pineapple Store
Project No. 56A-03-25

Scale: NTS Date: Dec. 2025

SHEET No. 1 OF 1 SHEETS