

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	ADD. 3	65

1. The scope of work for this project consists of cold planing and resurfacing full depth reconstruction; replacing existing guardrails; reconstruction of existing asphalt concrete gutters; installing pavement markings, signs, median and shoulder rumble strip, milepost reference markers; utility adjustment; installing a radar traffic counting system; removal of existing invasive *Opiuma* trees.
2. The Contractor shall obtain all necessary permits prior to start of work at his own cost.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 104.09 - Maintenance of Traffic; Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; Section 645 - Work Zone Traffic Control; and Section 697 - Public Communication and Coordination.
4. Contractor staging and storage areas identified in the environmental documents have been permitted for NPDES and Noise Variance, but the Contractor shall obtain permission to use the areas prior to construction. If the Contractor would like to use other areas that have not been included in the NPDES permit, the contractor shall be responsible for obtaining necessary permits at his own cost.
5. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, ADA access routes complying with 2010 ADAAG Section 206.1, side streets, and cross streets at all times. This work shall be considered incidental to various contract items and will not be paid for separately.
6. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
7. For night and weekend work, the Contractor shall follow all work hours, conditions, and other restrictions as specified in the noise variance and the Special Provisions. See Special Provisions Subsection 107.03 - Working Hours; Night Work.
8. The Contractor shall not perform any construction work during periods of heavy rainfall.
9. The Contractor shall notify the Department of Transportation Services Transportation Mobility Division (DTS-TMD) no less than 30 days prior to the start date of work, DTS-TMD shall review and approve the scope of work, location, and duration of any work that affects bus operations, routes or stops. Notification is required to all of the following phone numbers and emails: DTS-TMD - (808) 768-8396, TheBusStop@honolulu.gov, handivan@honolulu.gov; Oahu Transit Services Bus Operations - (808) 768-9520, (808) 848-4565, John.Donovan@thebus.org, Spai@thebus.org, FIELD-OPS-MGR@thebus.org; Oahu Transit Services Para-transit Operations - (808) 454-5006.
10. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations, a minimum of eight (8) weeks prior to implementation of detour routes, and a minimum of six (6) weeks prior to implementation of lane closures. See all requirements for lane closures in Special Provisions Section 645 - Work Zone Traffic Control. See all requirements for public notification, communication, and coordination in Special Provisions Section 697 - Public Communication and Coordination.
11. Prior to resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items with locations, including water, drainage, sewer, electrical, telephone, survey monuments, and cable utilities to be adjusted to the new finished grade.

12. 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 the work is possible. The contractor shall make an independent check on the ground by probing and/or checking with the various utility companies or government agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating in the area. Whenever connections of new utilities are shown on the plans, the contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavating. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced or repaired in accordance with the Standard Specifications and shall include all upgrades and betterments to the standards of the utility or agency at no cost to the State.
13. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocations, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.
14. The Contractor shall comply with utility coordination requirements per Standard Specification Section 104.11. As part of coordination requirements, the Contractor shall include carbon copy the Engineer in all correspondences with utilities companies.
15. The Contractor shall contact Hawaii One Call Center to have respective utility companies and agencies mark where their underground utilities are located. The Contractor shall comply with all requirements of Hawaii One Call Law. The Contractor shall be liable for any damages if Hawaii One Call requirements are not strictly adhered to. In accordance with Hawaii State Law Section 269E-7, the Hawaii One Call Center (HOCC) shall provide an inquiry identification number for each location request provided by the Contractor. The inquiry identification number and utility marks shall remain valid for not more than twenty-eight (28) calendar days from the date of issuance and after that date shall require the Contractor to submit a new request for HOCC revalidation. The Contractor shall provide all inquiry identification numbers for each location request to the Engineer and provide written notice of scheduled toning at least one week ahead of toning. If there is a potential conflict, contractor shall inform DOT within 24 hours of discovery. Contractor shall probe around area with hand tools and take precautions to not damage utilities. The Contractor shall independently verify the toned areas of excavation prior to excavation. This work shall be incidental to various contract items and shall not be paid for separately.
- 1 Before conducting any excavation in the public right of way or on private property, the Contractor shall call the Hawaii One Call Center at least five (5) working days before beginning excavation operations. Be sure to give them the address and location of the nearest cross street(s) near the planned excavation site. Call 811 toll-free 24 hours a day. For more information, go to www.callbeforeyoudig.org. The Hawaii One call Center will contact all utility companies to tone, mark, or identify the location of their underground utilities for free. Mark the area where you plan to excavate in White and label all of the other utilities as listed below.
- | | |
|--------|---------------------------------------------------------------------------|
| RED | Electric power lines, cables, or conduits, and lighting cables. |
| YELLOW | Gas, oil steam, petroleum or other hazardous liquid or gaseous materials. |
| ORANGE | Communications, cable TV, alarm or signal lines, cables, or conduits. |
| BLUE | Water, irrigation, and slurry lines. |
| GREEN | Sewers, storm sewer facilities or other drain lines. |
| WHITE | Proposed excavation. |
| PINK | Temporary survey markings. |
| PURPLE | Reclaimed water, irrigation and slurry lines. |

16. The Contractor shall be responsible for referencing and preserving all survey monuments on State property. The Contractor shall coordinate with the State Construction Surveyor prior to construction to locate and verify all monuments. All survey monuments disturbed or destroyed by the Contractor shall be reinstalled at no cost to the State. Only a licensed State of Hawaii Land Surveyor shall reference, locate, adjust or reinstall monuments. Adjusted or reset monuments shall comply with Standard Plan D-07 or D-08 where applicable. Following the completion of the monuments, their locations shall be checked. The monuments must check within a tolerance of the smaller of 1:20,000 for distance and alignment or a maximum positional error of 0.03 feet. Failure to meet the tolerance will require the Contractor to reset the monuments. All costs associated with coordination, referencing, preserving, adjusting, installation, and verification of survey monuments is included in the various contract pay items and shall not be paid for separately.
17. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
18. Prior to construction the contractor shall submit reconstruction area calculations including dimensions, areas, and tonnage in milestone increments consistent with the schedule for the various pavement and reconstruction work.
19. The exact locations and limits of areas to be filled with Hot Mix Asphalt Pavement, Mix No. V, cold-planed, reconstructed, or excavated shall be determined in the field by the Contractor. The Contractor shall provide drawings showing the location and outlines of the proposed repair areas for review and acceptance.
20. The Contractor may elect to reconstruct the entire depth of pavement reconstruction with subsequent cold planning as a means and methods for doing the work. However, the State will not pay for the extra asphalt concrete base that is later removed. Any area of pavement section that is cold planed or excavated a second time will not be paid for.
21. The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. The removal and disposal of the pavement markers shall be incidental to the contract work.
22. All holes, depressions and wheel ruts shall be filled and compacted with Hot Mix Asphalt Pavement, Mix No. V prior to resurfacing.
23. The existing drainage system shall be kept functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow.
24. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer.

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	*
	TRACED BY _____	*
	DESIGNED BY _____	*
	QUANTITIES BY _____	*
N _e _____	CHECKED BY _____	*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-H1-1(275)

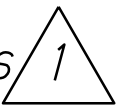
Date: October, 2021

SHEET No. 1 OF 3 SHEETS

GENERAL NOTES (Continued)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K275)	2021	ADD. 4	65

25. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement.



26. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas at no cost to the State. Corrective measures shall be approved by the Engineer.



27. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on cold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.



28. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.



29. All roadway paving work shall be performed over the weekend from Friday night to Monday morning. See Special Provisions Section 645 - Work Zone Traffic Control for lane closure hours.

30. The final lift of asphalt concrete shall be placed prior to opening lanes up to traffic. There shall not be any vertical riding surface drop-off between adjacent surfaces at the end of each day's work.

31. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.

32. The exact locations and limits of guardrail improvements shall be determined in the field by the Contractor. The Contractor shall not begin work until the guardrail limits are verified and accepted by the Engineer. Removal of existing guardrail shall be considered incidental to the various guardrail items.

33. No section where guardrails have been removed shall be left unshielded and exposed to traffic. Open sections shall be shielded with portable physical barriers. Furnishing, installing, and maintaining physical barriers shall be considered incidental to the various contract items.

34. All materials shall be new and free of defects, such as rust, damage, or corrosion. The Engineer will determine acceptability. No payment will be made for material that is not accepted by the Engineer.

35. No material and/or equipment shall be stockpiled or 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 Right-of-Way Branch at ph. #692-7332.

36. The contractor shall allow HDOT personnel access to all materials that will be used in the project for inspection and/or testing (this includes but is not limited to access to contractor or subcontractor's base yards, manufacturer yard, production plant, separate storage areas). The Engineer reserves the right to reject any material for which access or inspection is not allowed.

37. All material generated by the project and taken off-site shall be considered solid waste. The Contractor shall dispose of all removed material at an approved Department of Health waste management facility. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer by the last day of each month. Provide documentation from any intermediary facility where solid waste is handled or processed, haul tags, or any documentation as requested by the Engineer. If the Contractor elects to reclassify material as inert fill, DOH HEER testing guidance shall be followed. No material generated from this project shall be classified as inert fill material for reuse without testing, obtaining required approvals/permits, providing disposal locations/quantities, and obtaining prior written approval from the Engineer. All costs for handling, testing, and disposal shall be considered incidental to the contract work. Failure to comply with these requirements may result in fines/liquidated damages in accordance with Special Provisions Section 209 and HDOT's Enforcement Response Plan.

38. Removal and disposal of existing guardrail, end terminals, asphalt concrete pavement, and any debris shall be considered incidental to their respective bid items.

39. Contractor shall dispose or deliver any removed material at no cost to the State.

40. Traffic control plans shown or referred to in the Contract Documents are minimum requirements and do not constitute a complete traffic control plan. The Contractor shall provide any traffic control plan that is needed to accomplish the work based on contractor's means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable Manual Uniform Traffic Control Devices (MUTCD) requirements. All lane closures or traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for approval in accordance with Specifications Section 645 Work Zone Traffic Control. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Section 107.06 Contractor Duty Regarding Public Convenience, and Section 645 Work Zone Traffic Control. All traffic control related costs shall be included in the lump sum traffic control pay item and shall not be paid for separately.

41. The Contractor shall develop site specific traffic control plans and detour plans for all traffic control to be used on the project.

42. The Contractor shall coordinate with the Honolulu Police Department Special Duty Section to hire police officers for traffic control operations and transporting of project equipment to ensure minimal delay due to lane closures.

43. The Contractor shall submit schedules, including traffic detours, road or lane closures, and the placement of traffic control devices, to the Engineer for acceptance prior to construction. See Special Provisions Section 645.03(F) for submittal time frames.

44. All public notices and advertisements shall be incidental to lump sum traffic control item 645.0100 Traffic Control, and shall not be paid for separately, unless otherwise directed by Engineer.

45. Submit requests for detours, ramp, and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F). Refer to minimum time frames required for implementation.

46. If the traffic control plan or any traffic control device is not installed per plan, specification, or is deemed unsafe, the Engineer reserves the right to shut down the work at no additional cost/time or withhold payment.

47. The Contractor shall provide for quality control of work. The Contractor shall submit copies of all measurements and test results to the Engineer. The Contractor shall submit quality inspection reports daily to the Engineer.

48. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts, which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Noncompliance with this Subsection may be grounds for rejection of bid.

49. Work specified in the contract documents, or otherwise required to complete the project, but not itemized specifically in the proposal schedule shall be considered incidental to the various contract items and shall not be paid for separately.

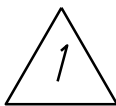
50. The contract pay items including lumps sum and unit prices shall be all inclusive of Contractor means and methods of doing the work specified in the contract.

51. Work may be suspended due to noncompliance with of any of the following, but not limited to, conditions:

- a. Work or lane closures performed before or after permitted hours.
- b. Failure to maintain roadway surfaces in a smooth and safe condition.
- c. Failure to clean up construction debris generated from project work.
- d. Failure to provide proper traffic control.
- e. Failure to replace damaged pavement markings and signs.
- f. Failure to maintain highway lights and/or traffic signal systems.
- g. Failure to maintain or install traffic control devices.
- h. Failure to address public complaints.
- i. Unauthorized lane closures.

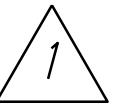
Any suspension of work shall be at the Contractor's expense and at no additional cost to the State and no additional contract time will be added.

52. HDOT concrete barriers will not be available for Contractor to use.



53. Refer to As-Built Plans titled Interstate Route H-1 Halawa Interchange to Middle Street Interchange, Non-Potable Water System, Federal Aid Interstate Project No. IR-HI-1(21I) (Board of Water Supply Job No. 90-002S) for existing non-potable water line profile as provided in Addendum No. 1.

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



11/19/21 Moved Notes #25, #26, #27, and #28 from General Notes Sheet No. 3 to this sheet. Added Note #53.

DATE

REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
<u>INTERSTATE ROUTE H-1 REHABILITATION</u> <u>SALT LAKE BOULEVARD TO AIRPORT VIADUCT</u> <u>FEDERAL-AID PROJECT NO. NH-HI-1(K275)</u>
Date: October, 2021
SHEET No. 2 OF 3 SHEETS

GENERAL NOTES (Continued)

54. The State will be obtaining a Community Noise Permit to allow the following work to be performed on Saturdays from 9:00am to 6:00pm: cold planing and resurfacing of existing asphalt concrete pavement, full depth reconstruction, replacing existing guardrails installation of median and shoulder rumble strip, utility adjustment, and removal of existing invasive Opiuma trees.

PAVING AROUND MANHOLES

- 1. The Contractor shall first lower manholes more than cold planing thickness indicated on typical sections prior to cold planing. The work shall be considered incidental to Contract Item 626.1000 - Adjusting (Water) Standard Valve Box and Contract Item 626.1100 - Adjusting Non-Potable Water Manhole Frame and Cover. Upon final paving, the manhole shall be raised and paid under the various contract items pertaining to manhole adjustments.
- 2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
- 3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole which is not rolled by the steel roller.
- 4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot out the area if the fog is too heavy.

ZIPPER LANE DEPLOYMENT AREA NOTES

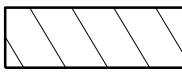
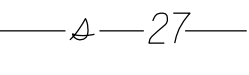
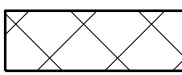

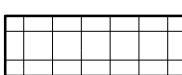
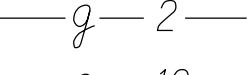
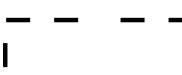

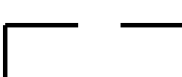

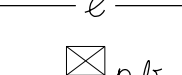

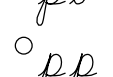
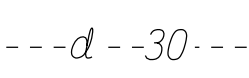

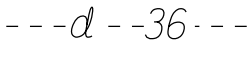

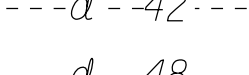
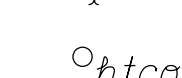
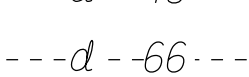

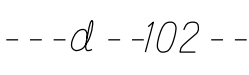

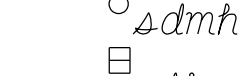
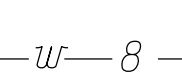

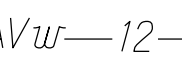

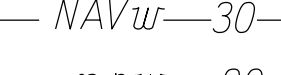
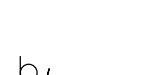
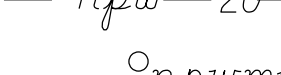

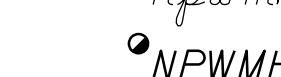

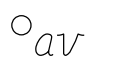

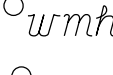
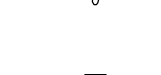



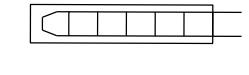






- 1. The Contractor shall coordinate with the Zipper Lane operator to minimize interference with Zipper Lane barrier deployment. Work within Zipper Lane Deployment Area (ZLDA) shall be allowed six (6) weekends maximum with Zipper Lane barrier deployed. There shall be no exceptions or extensions for any hours of work within the ZLDA For hours of allowable lane closures within the ZLDA, See Special Provisions Section 645 - Work Zone Traffic Control.
- 2. The Contractor shall coordinate with the Zipper Lane operator when requiring Zipper Lane gate arms to be raised or lowered during construction.
- 3. The cost for the Zipper Lane barrier deployment shall be considered incidental to Contract Item 645.1000 - Traffic Control

ENDANGERED SPECIES NOTES


- 1. All work lights shall be shielded so the bulb can only be seen from below bulb height, shall contain less than 2% wavelengths less than 500 nm, shall be situated so that light does not shine on reflective surfaces, and shall only be used when construction is occurring in the area illuminated by the light.
- 2. Woody plants greater than 15 feet tall shall not be disturbed, removed, or trimmed during the Hawaiian hoary bat birthing and pup rearing season, June 1 through September 15.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	ADD. 5	65

LEGEND

	Reconstruction At Settled Area A		Existing 27" Sewer Line
	Reconstruction At Settled Area B		Existing Sewer Manhole
	Reconstruction At Settled Area C		Existing 2" Gas Line
	Grading Limits		Existing 10" Gas Line
	Resurfacing Limits		Existing 10" Gas Line
	Existing Electrical Line		Existing Monument
	Existing Pull Box		Existing 24" Drain Line
	Existing Power Pole		Existing 30" Drain Line
	Existing Electric Manhole		Existing 36" Drain Line
	Existing Telephone Line		Existing 42" Drain Line
	Existing Hawaiian Telcom Manhole		Existing 48" Drain Line
	Existing Hawaiian Telcom Pull Box		Existing 66" Drain Line
	Existing Signal Corps Line		Existing 102" Drain Line
	Existing 8" Water Line		Existing Storm Drain Manhole
	Existing 12" Navy Water Line		Existing Grated Drop Inlet
	Existing 30" Navy Water Line		Existing Catch Basin
	Existing 20" Non-Potable Water Line		Existing Traffic Sign
	Existing Non-Potable Water Manhole		Existing Highway Lighting Standard
	Adjusted Non-Potable Water MH Frame/Cover		Existing Highway Lighting Pull Box
	Existing Water Air Valve		Existing Metal Guardrail
	Existing Water Manhole		New Metal Guardrail
	Existing Irrigation Valve Box		Existing Quadguard End Treatment
	Existing Water Valve Box		
	Adjusted Water Valve Box		
	Existing Irrigation Pull Box		
	Existing Water Meter		

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

	11/19/21	Added Note #54
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-1(275)

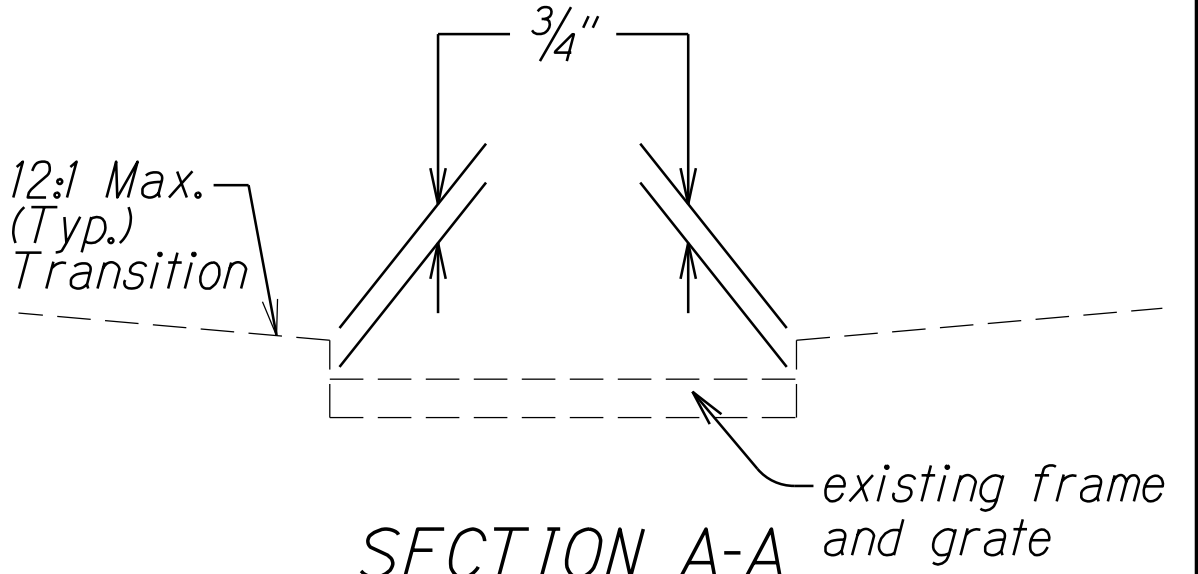
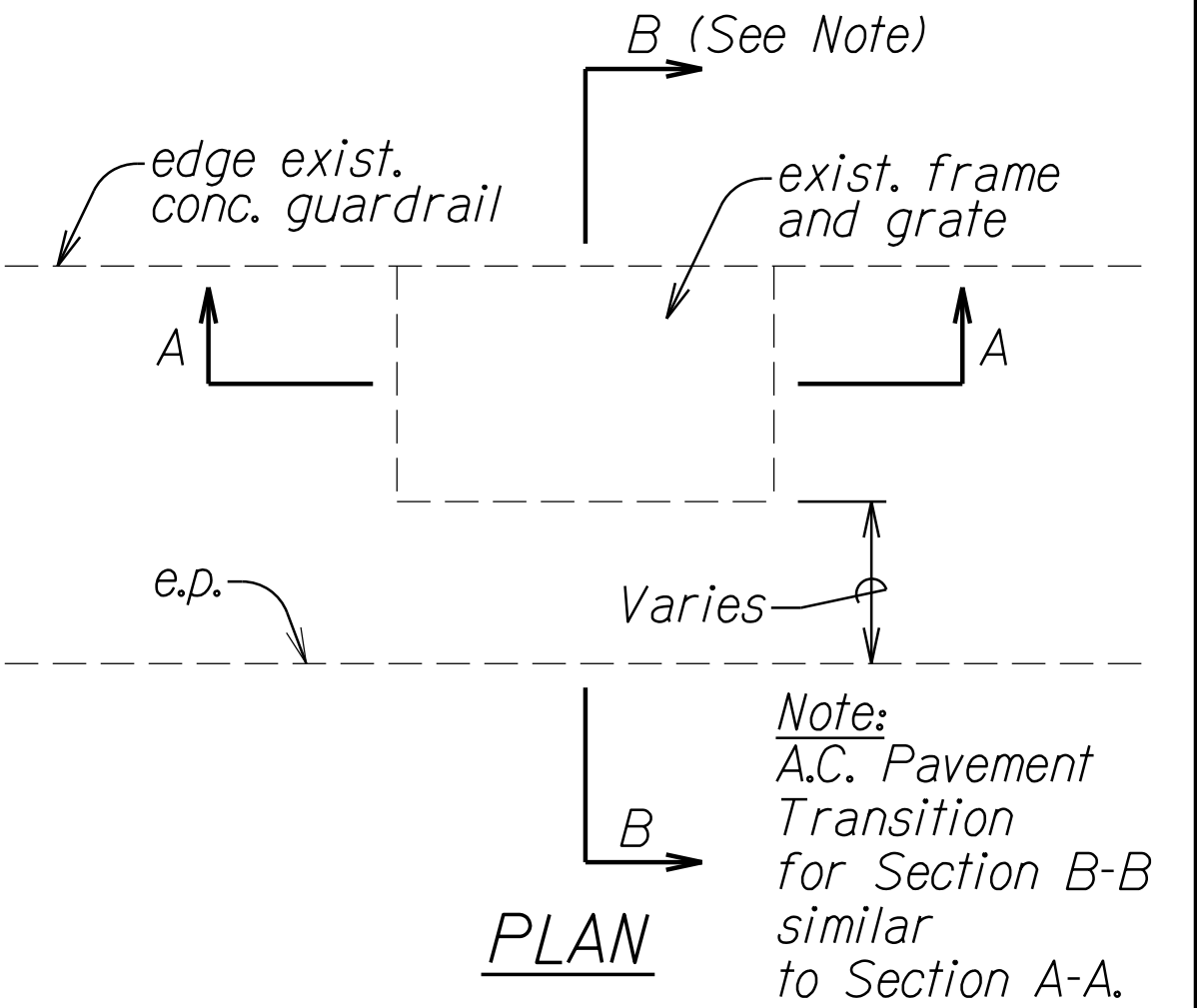
Date: October, 2021

SHEET No. 3 OF 3 SHEETS

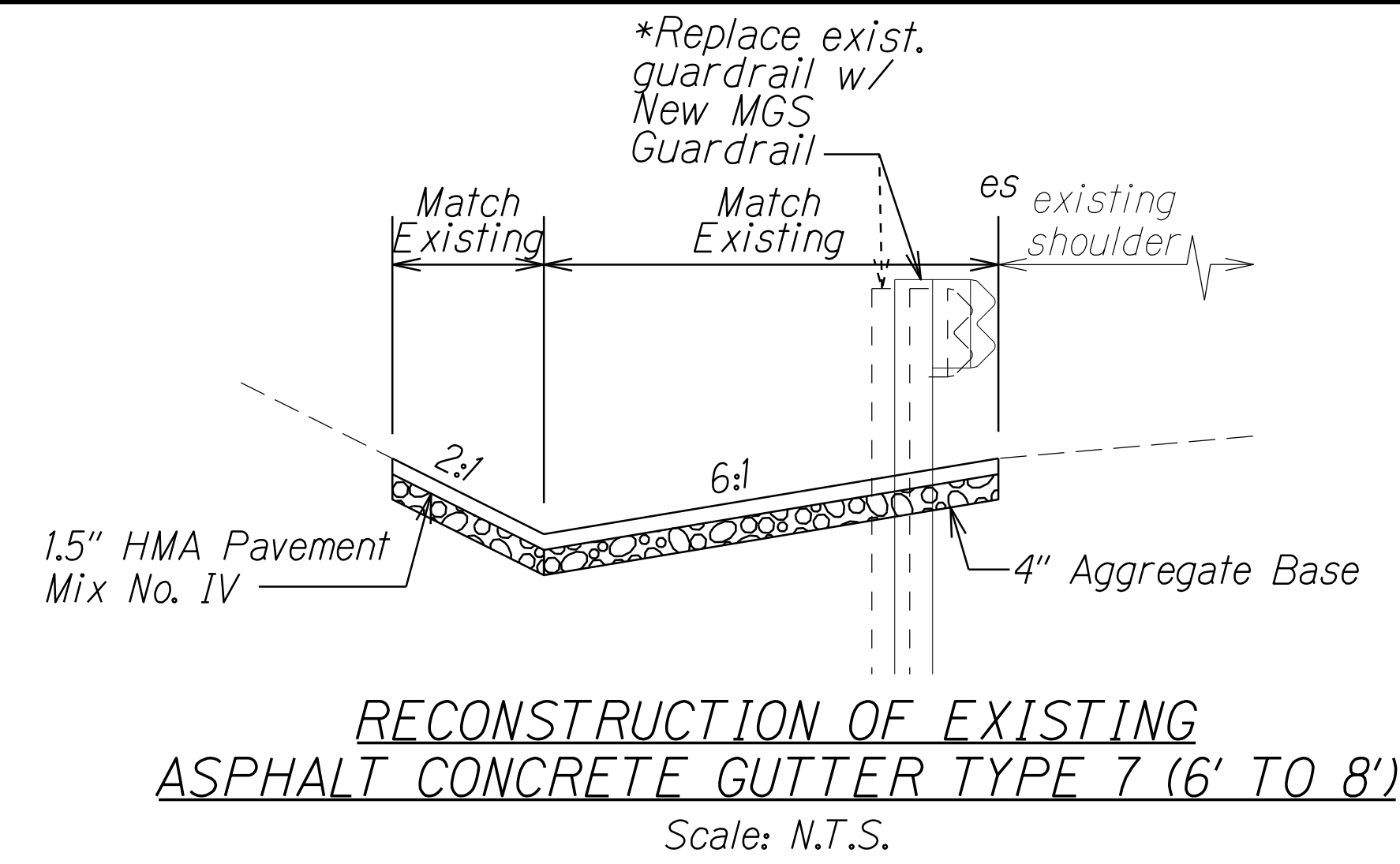
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K275)	2021	ADD. 19	65

TERMINOLOGY AND DEFINITIONS:

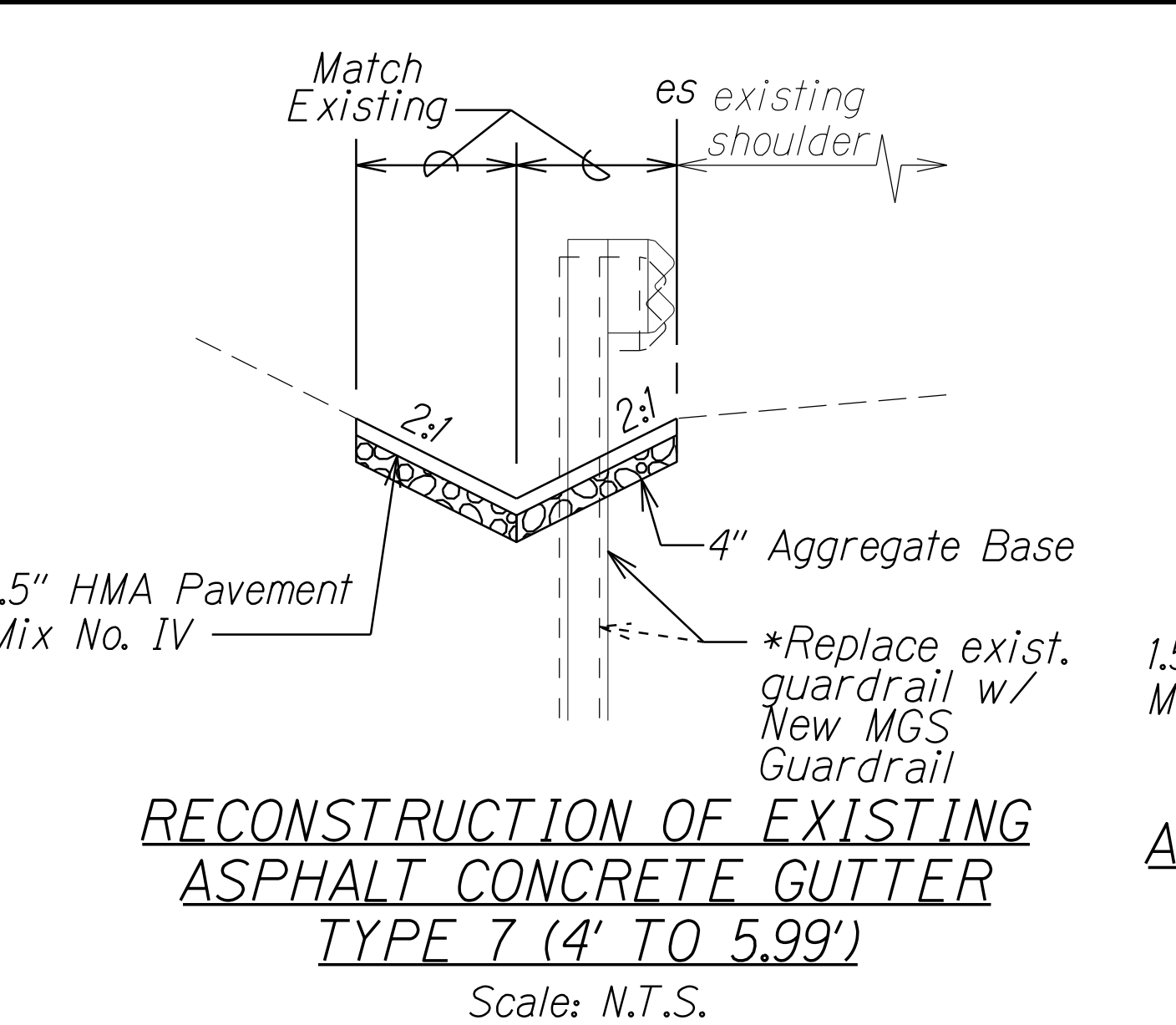
SMA = SMA with PG 64E-22



SECTION A-A
A.C. PAVEMENT TRANSITION TO EXISTING DRAINAGE STRUCTURES
Not to Scale

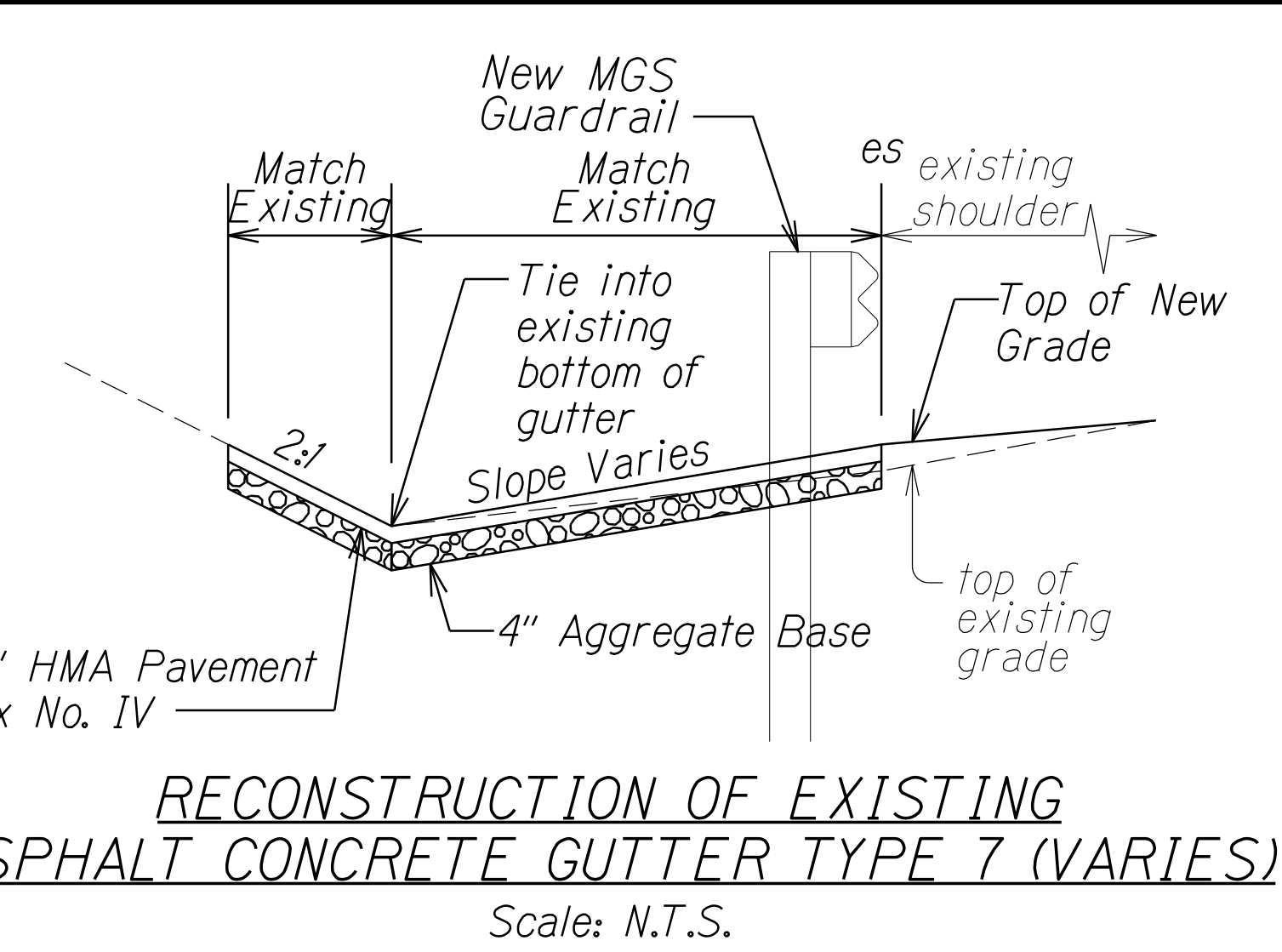


- RECONSTRUCTION OF EXISTING ASPHALT CONCRETE GUTTER TYPE 7 (6' TO 8')**
Scale: N.T.S.
- Reconstruction of Existing AC Gutter Notes:**
- Existing guardrail location varies. New guardrail shall be located adjacent to the edge of shoulder.
 - Removal and disposal of existing asphalt concrete gutter, new HMA Pavement, and Aggregate Base shall be paid under Items No. 639.1000 and 639.2000 - Reconstruct Existing Asphalt Concrete Gutter.
 - Clear existing vegetation to uncover existing gutter.
 - From $\#$ Sta. 53+04 \pm to $\#$ Sta. 55+22 \pm Lt. and $\#$ Sta. 59+54 \pm to $\#$ Sta. 66+25 \pm Lt., payment shall be under Item No. 639.1000 - Reconstruct Existing Asphalt Concrete Gutter (6 to 8 Feet).
 - From $\#$ Sta. 55+58 \pm to $\#$ Sta. 59+13 \pm Lt., payment shall be under Item No. 639.2000 - Reconstruct Existing Asphalt Concrete Gutter (4 to 5.99 Feet).
 - From $\#$ Sta. 55+22 \pm to $\#$ Sta. 55+58 \pm Lt. and $\#$ Sta. 59+13 \pm to $\#$ Sta. 59+54 \pm Lt., payment shall be under Item No. 639.3000 - Reconstruct Existing Asphalt Concrete Gutter Transition.
 - For Reconstruction of Existing Asphalt Concrete Gutter Limits, see tables on this sheet.



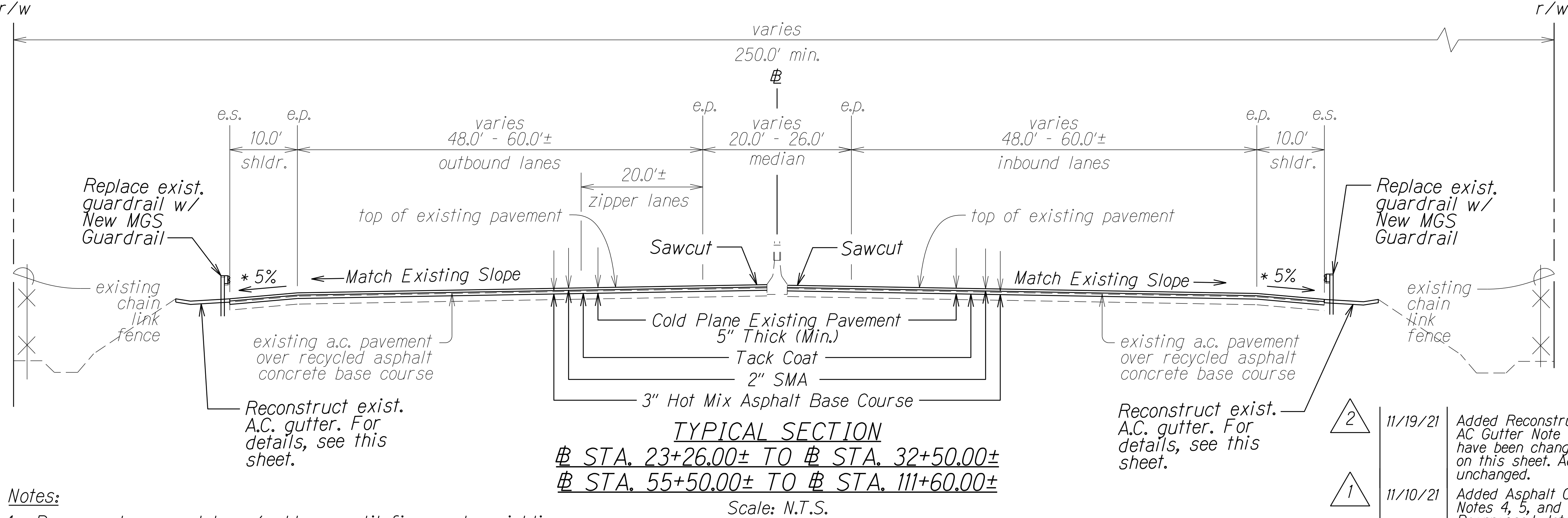
Reconstruction of Existing Asphalt Concrete Gutter Type 7 (Outbound)

Type 7 Width	# Station	
	Begin	End
6' to 8'	26+00 \pm	27+75 \pm
	37+20 \pm	37+93 \pm
	80+25 \pm	84+75 \pm
4' to 5.99'	23+82 \pm	0+26 \pm
	93+12 \pm	96+80 \pm
	102+60 \pm	109+43 \pm
Varies	53+04 \pm	66+25 \pm

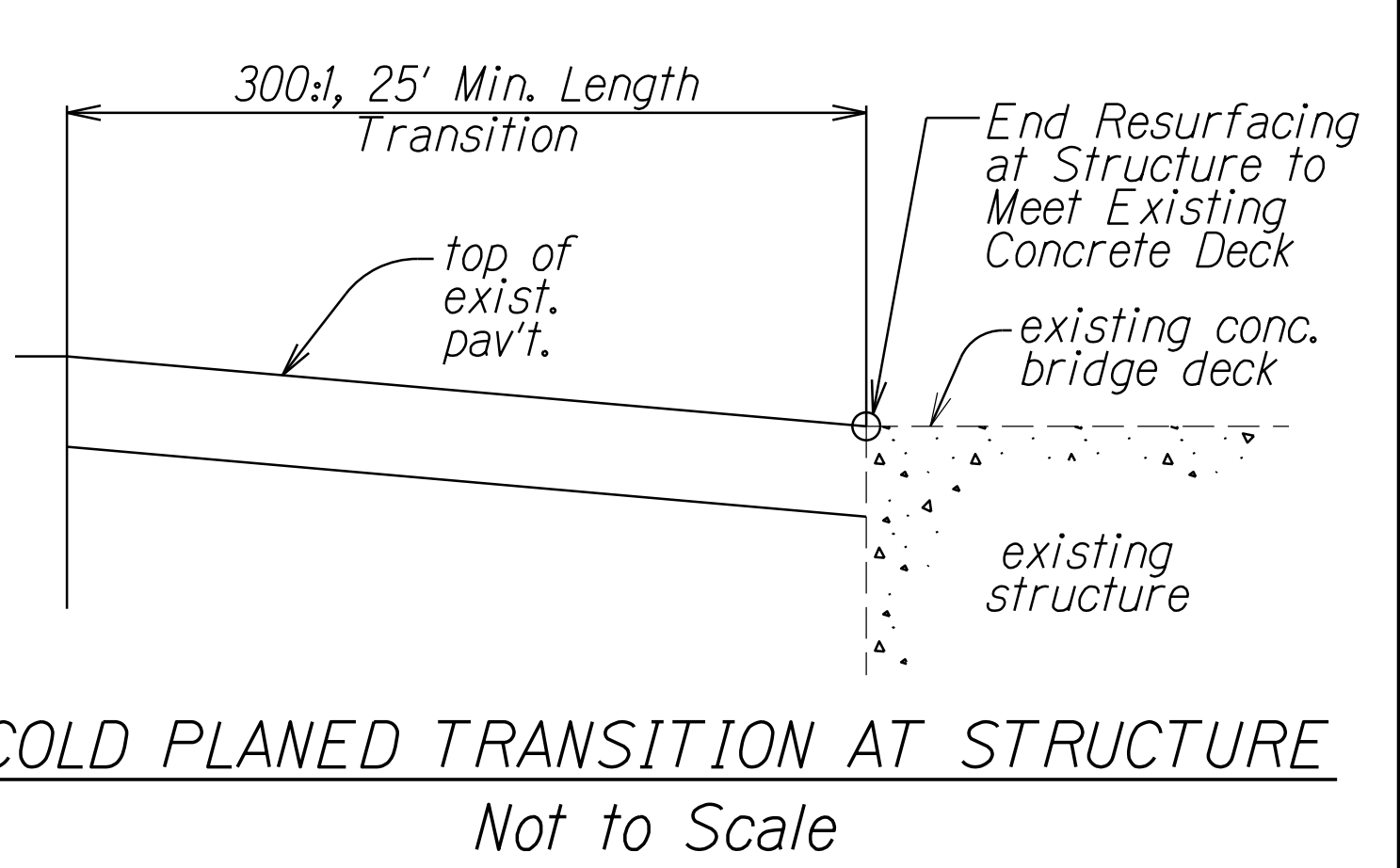


Reconstruction of Existing Asphalt Concrete Gutter Type 7 (Inbound)

Type 7 Width	# Station	
	Begin	End
6' to 8'	23+17 \pm	23+90 \pm
	30+75 \pm	33+27 \pm
	52+63 \pm	55+55 \pm
	61+20 \pm	64+18 \pm
	RAMP WN 1+35 \pm	RAMP WN 3+50 \pm
4' to 5.99'	88+75 \pm	92+50 \pm
	56+45 \pm	61+20 \pm



- TYPICAL SECTION**
 $\#$ STA. 23+26.00 \pm TO $\#$ STA. 32+50.00 \pm
 $\#$ STA. 55+50.00 \pm TO $\#$ STA. 111+60.00 \pm
Scale: N.T.S.
- Notes:**
- Recompact exposed base/subbase until firm and unyielding.
 - See Roadway Plans for limits of reconstruction, new guardrail, paving under new guardrail, and reconstruction of existing A.C. gutter.
 - From $\#$ Sta. 55+50 to 66+25 Lt., see Pavement Grade Plans on Sheet no. AD1004 for new elevations at finish grade on outbound shoulder.



COLD PLANED TRANSITION AT STRUCTURE
Not to Scale

TYPICAL SECTIONS & DETAILS

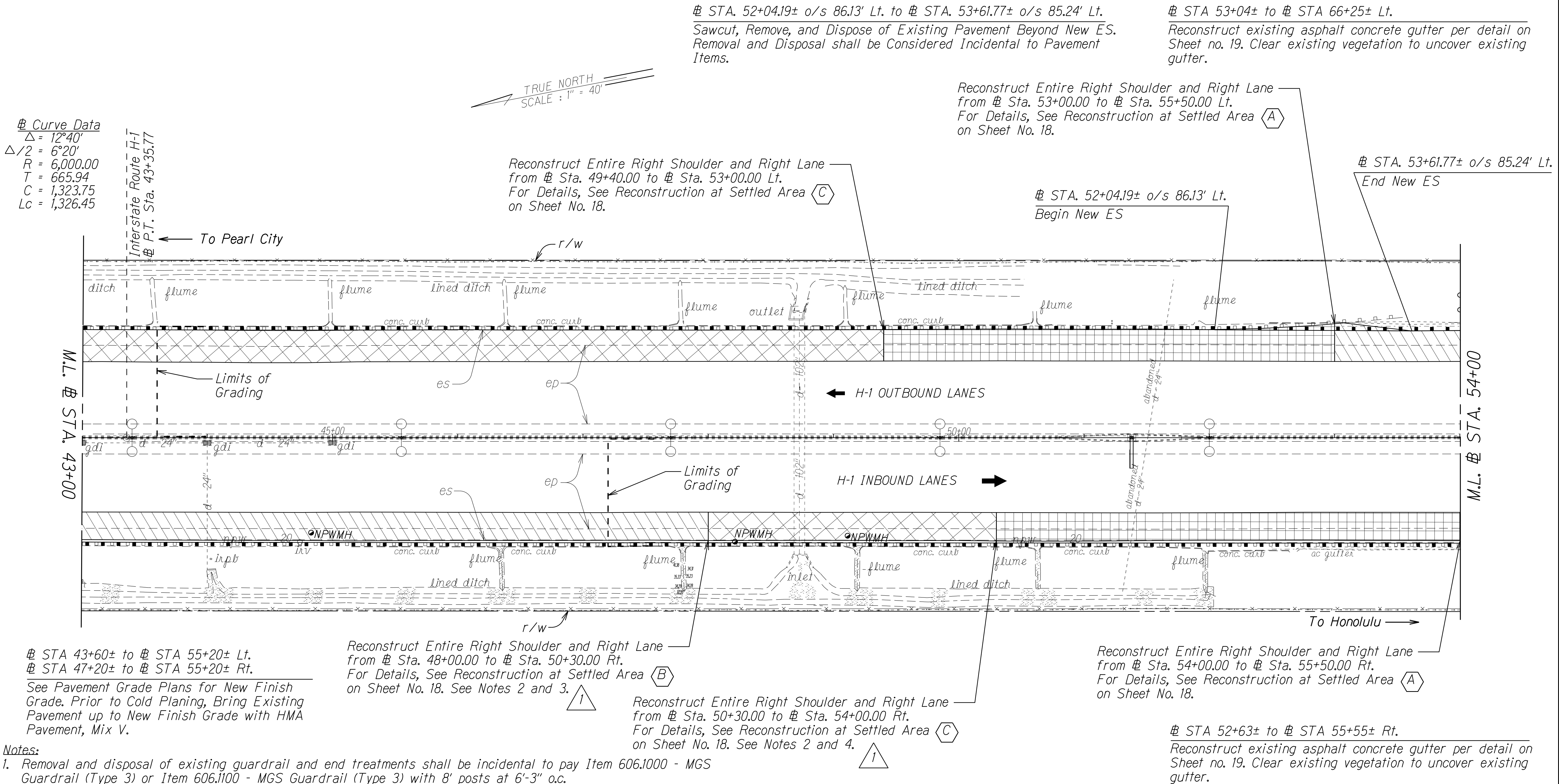
INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-1(K275)

Scale: NTS Date: October, 2021

DATE	REVISION
11/19/21	Added Reconstruction of Existing AC Gutter Note 7 to mention limits have been changed to table format on this sheet. Actual limits remain unchanged.
11/10/21	Added Asphalt Concrete Gutter Notes 4, 5, and 6. Rearranged detail positions on this sheet.

SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(275)	2021	ADD. 33	65



Notes:

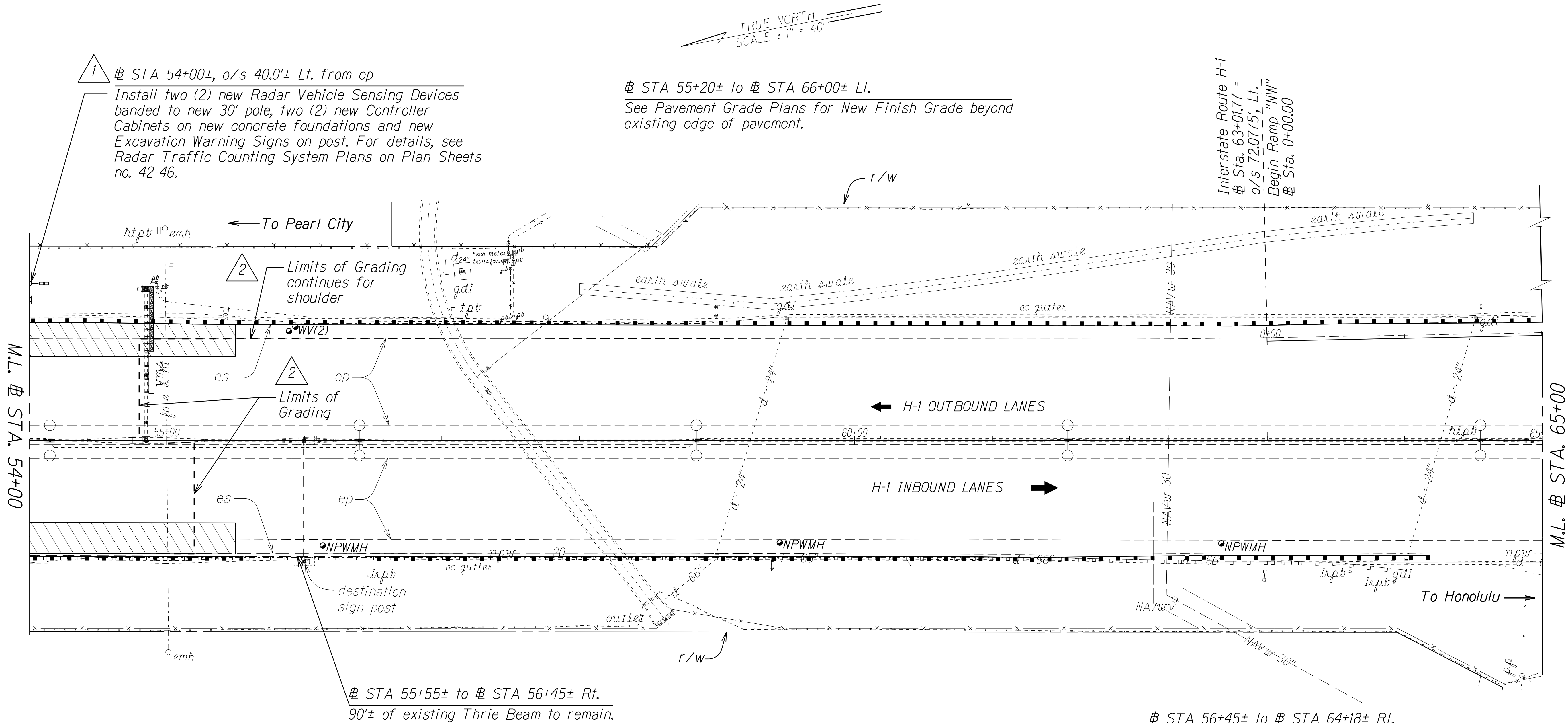
- Removal and disposal of existing guardrail and end treatments shall be incidental to pay Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.
- The Contractor shall use care when excavating around existing utilities. See General Notes #12 and #15. When compacting over the existing 102" drainline, do not put much compactive effort when putting in the first 12" of fill over the drainline. Do not excavate below the bottom of the existing non-potable water line. Do not put compactive effort on fill over the non-potable waterline until the top of the compacted lift is at least 7" above the concrete jacket.
- For excavation around existing manholes, soil shall be excavated such that the level of soil surrounding the manhole is equal all around. The Contractor shall protect existing manholes and utilities. Any damages incurred shall be repaired or replaced at the cost of the Contractor.
- The water valves in the vicinity shall be shut off during exposure of waterline during reconstruction work. Should the bottom of the existing waterline become exposed, it shall be supported and protected. Any damages incurred shall be repaired or replaced at the cost of the Contractor. Ensure proper compaction around existing pipes.

2	11/19/21	Made additions to Note 2.
1	11/10/21	Added Note 2. Added Note 3. Added Note 4.
DATE	REVISION	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>ROADWAY PLANS</u>		
<u>INTERSTATE ROUTE H-1 REHABILITATION</u> <u>SALT LAKE BOULEVARD TO AIRPORT VIADUCT</u> <u>FEDERAL-AID PROJECT NO. NH-HI-K(275)</u>		
Scale: 1" = 40'	Date: October, 2021	
SHEET No. 3 OF 9 SHEETS		

ADD. 33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K275)	2021	ADD. 34	65



SURVEY PLOTTED BY	DATE
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Note:
Removal and disposal of existing guardrail and end treatments shall be incidental to pay Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.

2	11/19/21	Adjusted the limits of grading call-out.
1	11/10/21	Clarified Radar Traffic Counting System Plans are on Plan Sheets no. 42-46 and added approximate # Sta. for the pole.
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

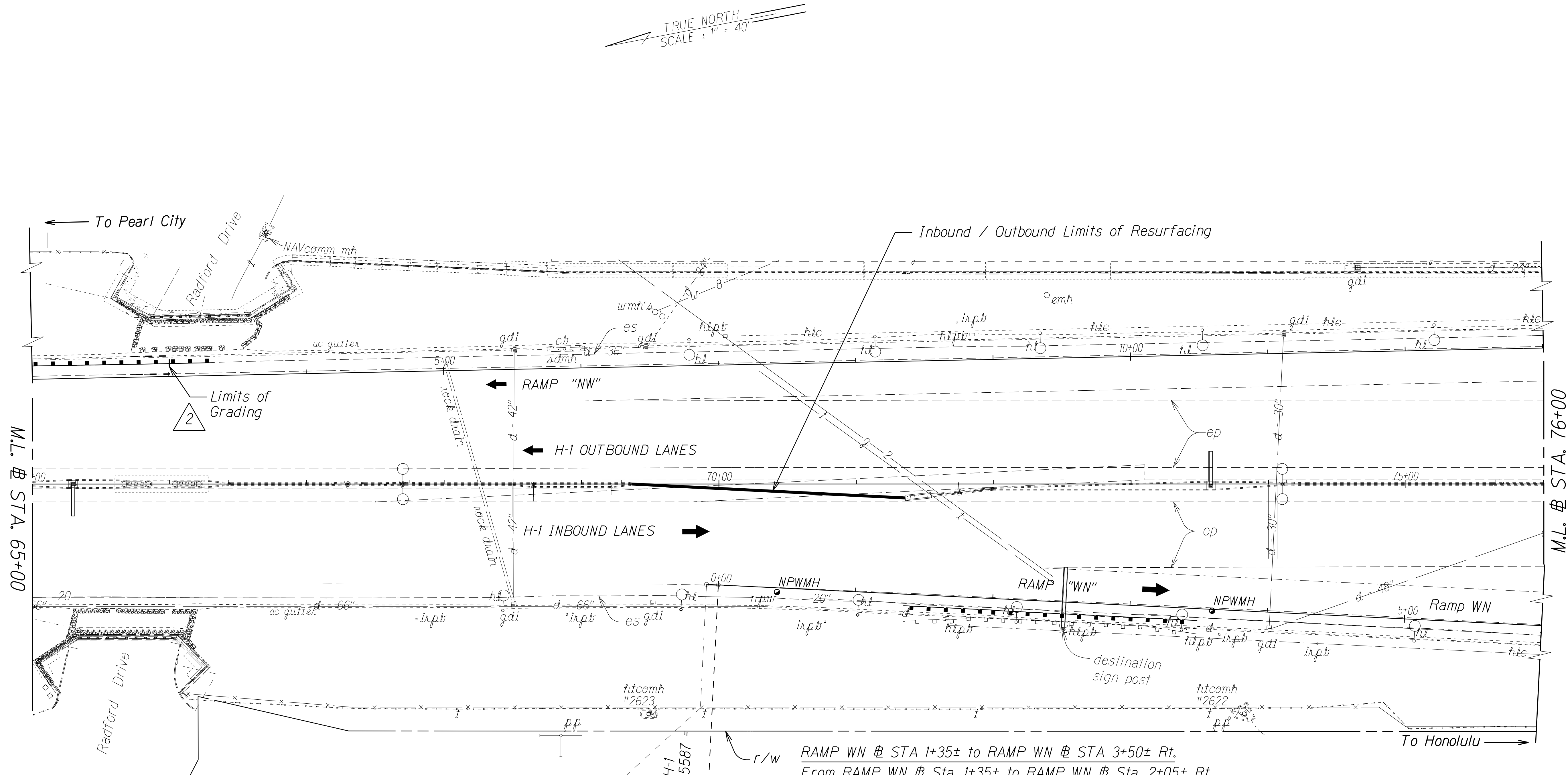
ROADWAY PLANS

INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-1(K275)

Scale: 1" = 40' Date: October, 2021

SHEET No. 4 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K275)	2021	ADD. 35	65



RAMP WN @ STA 1+35± to RAMP WN @ STA 3+50± Rt.

Reconstruct existing asphalt concrete gutter per detail on Sheet no. 19. Clear existing vegetation to uncover existing gutter.

Note:

Removal and disposal of existing guardrail and end treatments shall be incidental to pay Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.

RAMP WN @ STA 1+35± to RAMP WN @ STA 3+50± Rt.

From RAMP WN @ Sta. 1+35± to RAMP WN @ Sta. 2+05± Rt., Remove existing end treatment, 90± L.F. of existing w-beam guardrail with existing thrie beam transition (existing thrie beam to remain). Install 50 L.F. of New MGS Guardrail with New 50± L.F. MGS End Treatment TL-3 (MSKT-SP-MGS, Soft Stop, Max Tension, or Approved Equal). Connect New MGS Guardrail to existing thrie beam with New Transition Section (see details on Sheet no. 26). From RAMP WN @ Sta. 2+95± to RAMP WN @ Sta. 3+50± Rt., Remove existing thrie beam transition, 55± L.F. of existing w-beam guardrail and existing end terminal. Install new 50± L.F. MGS End Treatment TL-3 (MSKT-SP-MGS, Soft Stop, Max Tension, or Approved Equal). Connect New MGS Guardrail to existing thrie beam with New Transition Section (see details on Sheet no. 26). Existing thrie beam to remain. Relocate guardrail adjacent to es. See Reconstruction of Existing AC Gutter Detail on Sheet No. 22.

2

11/19/21 Add limits of grading call-out.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-1(K275)

Scale: 1" = 40' Date: October, 2021

SHEET No. 5 OF 9 SHEETS

ADD. 35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(275)	2021	ADD. 38	65

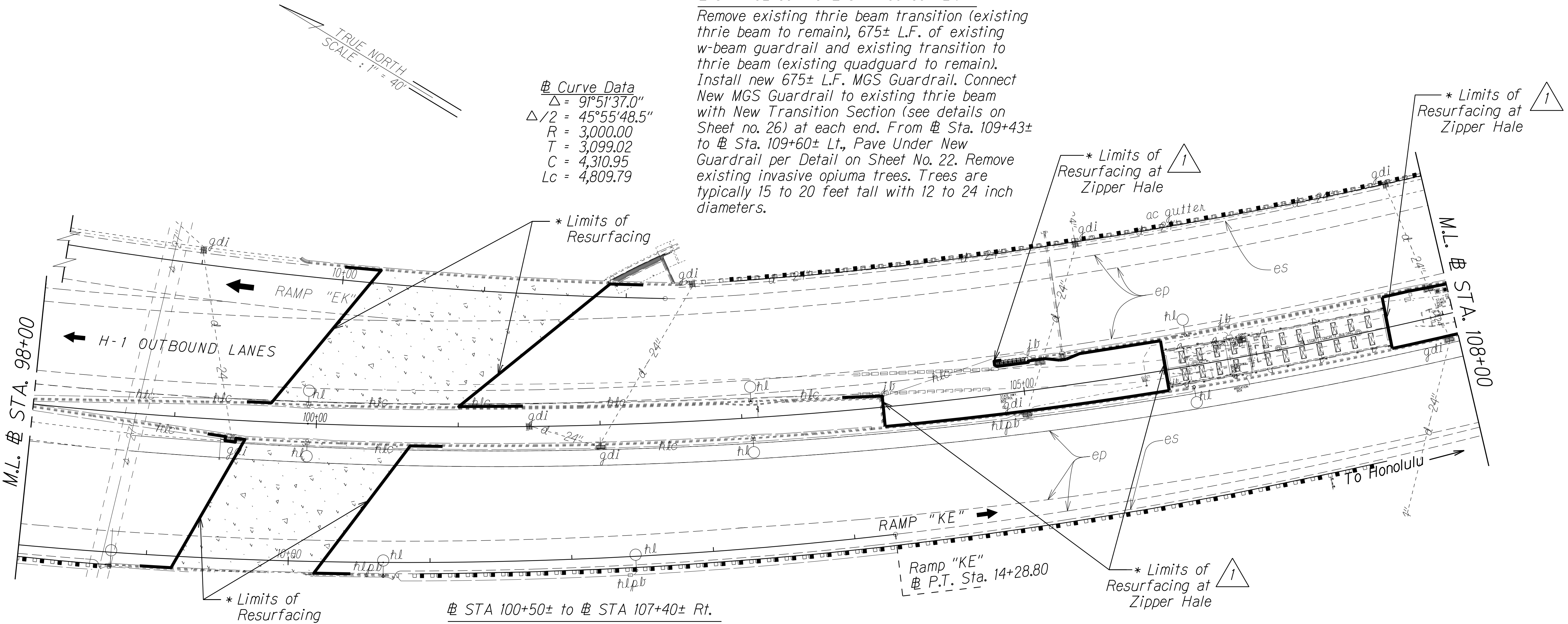
STA 102+60± to # STA 109+43± Lt.

Reconstruct existing asphalt concrete gutter per detail on Sheet no. 19. Clear existing vegetation to uncover existing gutter.

STA 102+60± to # STA 109+60± Lt.

Remove existing thrie beam transition (existing thrie beam to remain), 675± L.F. of existing w-beam guardrail and existing transition to thrie beam (existing quadguard to remain). Install new 675± L.F. MGS Guardrail. Connect New MGS Guardrail to existing thrie beam with New Transition Section (see details on Sheet no. 26) at each end. From # Sta. 109+43± to # Sta. 109+60± Lt., Pave Under New Guardrail per Detail on Sheet No. 22. Remove existing invasive opiuma trees. Trees are typically 15 to 20 feet tall with 12 to 24 inch diameters.

Curve Data
Δ = 91°51'37.0"
Δ/2 = 45°55'48.5"
R = 3,000.00
T = 3,099.02
C = 4,310.95
Lc = 4,809.79



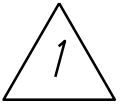
STA 100+50± to # STA 107+40± Rt.

Remove 700.0± L.F. of existing guardrail (12.5 L.F. existing guardrail connected to existing concrete bridge endpost to remain) and existing end terminal. Install 675.0 L.F. of New MGS Guardrail with New Trailing End Anchorage (see details on Sheet no. 25). Connect existing w-beam guardrail with MGS Transition to Strong Post Guardrail (see details on Sheet no. 27). Pave under new guardrail per detail on Sheet no. 22.

Notes:

- * 1. For Cold Planed Transition at Structure detail, see Sheet 19.
2. Removal and disposal of existing guardrail and end treatments shall be incidental to pay Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.

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



11/19/21

Added Zipper Hale area in Resurfacing Limits.

DATE

REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-K(275)

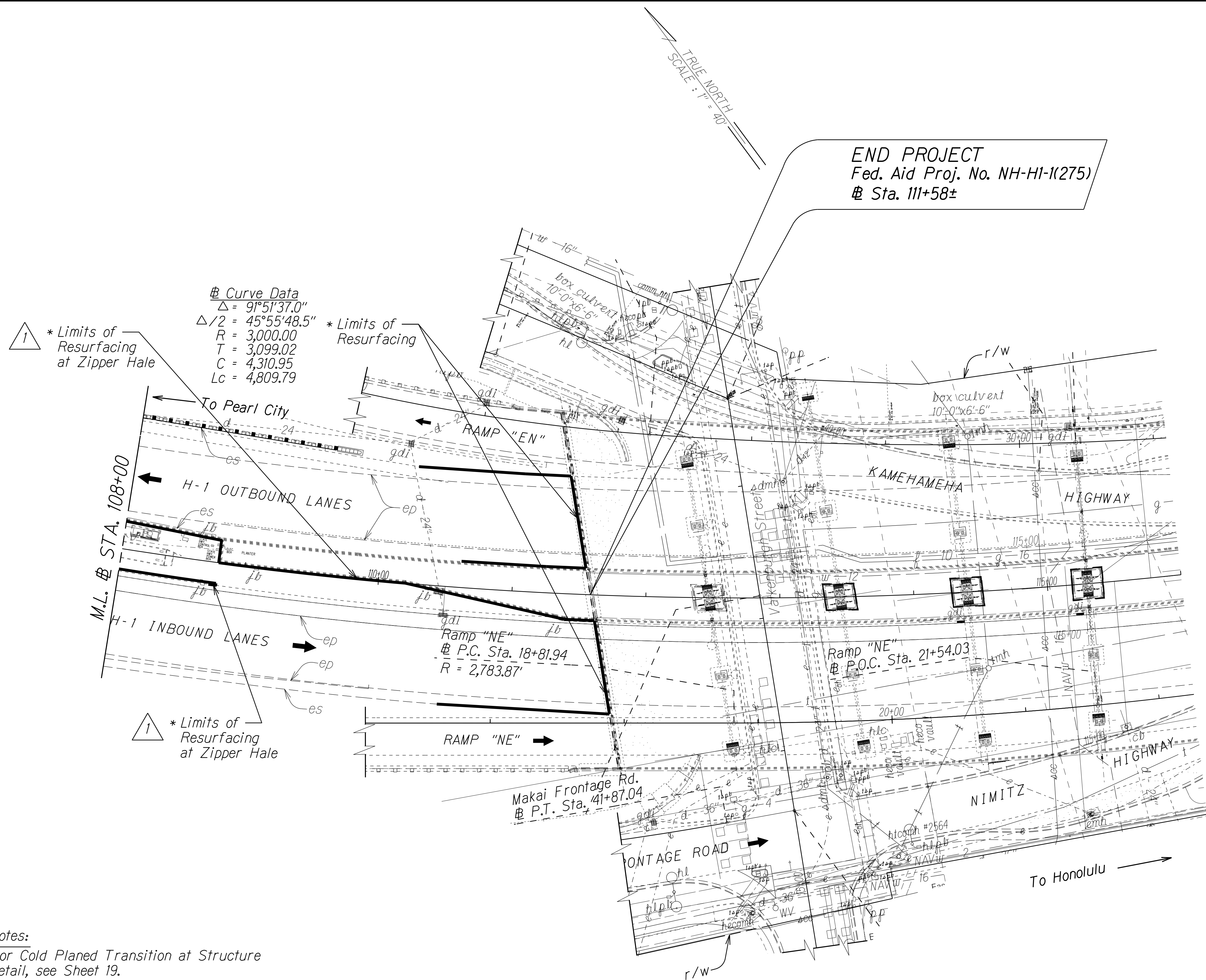
Scale: 1" = 40'

Date: October, 2021

SHEET No. 8 OF 9 SHEETS

ADD. 38

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K275)	2021	ADD. 39	65



Notes:

- For Cold Planed Transition at Structure detail, see Sheet 19.
- Removal and disposal of existing guardrail and end treatments shall be incidental to pay Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.

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

1	11/19/21	Added Zipper Hale area in Resurfacing Limits.
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-1 REHABILITATION
SALT LAKE BOULEVARD TO AIRPORT VIADUCT
FEDERAL-AID PROJECT NO. NH-HI-1(K275)

Scale: 1" = 40' Date: October, 2021

SHEET No. 9 OF 9 SHEETS

