FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	4	65

Notes For Construction

1. The Contractor Shall Obtain a Permit To Perform Work Upon State Highways From The Oahu District Engineer, State Highways, At 727 Kakoi Street, Prior To Commencement Of Work Within The State's Highway Right-Of-Way.

2. Construction And Restoration Of All Existing Highway Facilities Within The State's Right-Of-Way, Including The Legal Relations And Responsibility To The Public, Shall Be In Accordance With The Current Hawaii Standard Specifications For Road And Bridge Construction, And The Specifications For Installation Of Miscellaneous Improvements Within State Highways, Of The State Highways Division.

3. Work May Be Performed Only Between the Hours of 8:30 A.M. and 3:00 P.M., Monday Through Friday Except Holidays, Unless When Otherwise Approved In Writing By The District Engineer During Work Hours, Only One Lane Of Traffic Shall Be Closed, Unless Otherwise Approved In Writing By The District Engineer At Certain Locations, "No Lane Closure" Will Be Allowed During The "Back To School Jam", Thanksgiving Weekend, Christmas / New Year Period And At Other Times As Directed By The Highways Division.

4. The Contractor Shall Provide, Install, And Maintain All Necessary Signs, Lights, Flares, Barricades, Markers, Cones, And Other Protective Facilities, And Shall Take All Necessary Precautions For The Protection, Convenience, And Safety Of Public Traffic. All Such Protective Facilities And Precautions To Be Taken Shall Conform With The "Administrative Rules Of Hawaii Governing The Use Of Traffic Control Devices At Work Sites On Or Adjacent To Public Streets And Highways", Adopted By The Director Of Transportation,and The "U.S. Federal Highway Administration MUTCD – Manual On Uniform Traffic Control Devices, Part VI – Temporary Traffic Control". Lane Closures Shall Conform To The Traffic Control Plan Incorporated Into These Construction Plans And Must Be Approved By The Division Prior To The Issuance Of The Permit.

5. 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 District Engineer.

6. Compaction Tests Shall Be Taken In Accordance With The Specifications For Installation Of Miscellaneous Improvements Within State Highways, As Follows:

   a. Subbase: One (1) Compaction Test Per Lift Per 1,000 Square Feet.
   b. Base Course: One (1) Compaction Test Per Lift Per 1,000 Square Feet.
   c. Trench: One (1) Compaction Test Per Lift Per 300 Lineal Feet Of Trench.
   d. A Copy Of The Test Results Shall Be Submitted To The District Engineer.

7. The Distance From The Paved Surface To The Testing Edge Of a Ten-foot Long Straight Edge Between Two Points Shall Not Exceed 3/16 Inch.

Notes For Construction (Con't)

8. Existing Drainage Systems Shall Be Functional At All Times.

9. The Contractor Shall Exercise Care To Minimize Damages To Existing Highway Improvements. All Damages Shall Be Repaired By The Contractor, At His Expense, To The Satisfaction Of The District Engineer.

10. Approval Of Permit Construction Plans Shall Be Valid For a Period Of One (1) Year From The Date Of Notification Of Approval To The Applicant. In The Event Construction Does Not Commence Within This One-year Period, The Applicant Will Be Required To Resubmit The Construction Plans For The Division's Review And Re-approval.

11. All Regulatory, Guide, And Construction Signs And Barricades Shall Have A High-intensity Type III Or IV Retroreflective Background.

12. The Contractor Shall Inform The State Highway's Permit Office (831-6712) At Least Two (2) Days Prior To Closing Any Lanes.

13. The Contractor Shall Reference, To The Satisfaction Of The District Engineer, All Existing Traffic Signs, Posts, And Pavement Markings Prior To The Commencement Of Construction. The Contractor Shall Replace Or Repair All Traffic Signs, Posts, And Pavement Markings Disturbed By His Activities, At His Expense, Unless Directed By The District Engineer Or His Representative.

14. The Contractor Shall Exercise Care When Performing Work In Or Adjacent To The State Highway Right-of-way. Damages To The Existing Facilities Shall Be Immediately Reported To The Respective Utility Companies, And/Or City Or State Agencies. The Repair Work Shall Be Done At The Contractor's Expense.

15. Highway Lights Shall Be Kept Operational During Construction. Should Work Be Necessary, The Contractor Shall Notify The State Highways' Highway Lighting Supervisor (837-8056), Three (3) Working Days Prior To Commencing Work.

16. The Contractor Shall Notify The Department Of Transportation Services, Public Transit Division At 768-8396 And Oahu Transit Services, Inc. (Bus Operations: 848-4578 Or 852-6016 And Para-Transit Operations: 454-5041 Or 454-5020) Two Weeks Prior To Commencing Any Work. The Contractor Shall Inform Of The Location And Scope Of Work, Proposed Closure Of Any Street Or Traffic Lanes, And The Need To Relocate Any Bus Stop.

17. The Permit To Perform Work Upon State Highway May Be Revoked Because Of Default In Any Of The Following, But Not Limited To, Conditions:

   a. Work 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 Address Public Complaints To The Satisfaction Of The District Engineer.

Notes For Construction (Con't)

18. Temporary Cold Mix Trench Patches Will Be Permitted In Any Given Area For A Maximum Duration Of Two Weeks, And Shall Be a Minimum Of 2 Inches Thick. All Temporary Patches Shall Be Placed Over Properly Placed And Compacted Backfill And Base Course Layers. Contractor Shall Be Responsible For Maintaining All Temporary Patches And To Make Repairs To Unsatisfactory Patches Within 24 Hours.

19. The Contractor Shall Provide The District Engineer With As-Built Plans Upon Completion Of The Work Done In The State Right-of-way. This Shall Be Done Prior To The Department's Release Of The Performance Bond.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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No.	TRACED BY	
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MICHAEL H. OKAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8624-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Michael H. Okamoto April 30, 2020
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION NOTES – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.3 OF 65 SHEETS

"AS-BUILT"

C.O. 4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	5	65

Notes For Environmental Protection

1. The Contractor, At His Own Expense, Shall Provide Effective Measures For The Control Of Fugitive Dust Emissions From The Project And Surrounding Areas Caused By His Operations. These Measures Shall Meet The Requirements Of State Administrative Rules, Department Of Health, Air Pollution Control (11-60.1)

2. All Grading Operations Shall Be Performed In Conformance With The Applicable Provisions Of The Grading Ordinance To Prevent Violation Of The State Administrative Rules, Department Of Health, Water Pollution Control And Water Quality Standards. (11-54, 11-55) Due To Erosion And Run Off To State Waters.

3. Grub Material, Demolition Wastes, And Construction Wastes Shall Be Disposed Of At An Authorized Site Having A Department Of Health Solid Waste Management Permit. Open Burning Is Prohibited. The Contractor Shall Inform The County Engineer Of The Location Of The Disposal Sites. The Disposal Site Must Also Fulfill The Requirements Of The Grading Ordinances.

4. All Excess Material Shall Be Removed From The Project Site.

5. The Project Site Shall Be Kept Damp With Water For Seven (7) Days A Week. At The End Of Each Day, The Site Shall Be Sufficiently Dampened So That The Site Will Remain Moistened During The Night.

6. The Contractor Shall Conduct His Operations So That Excavation, Embankment And Imported Material Shall Be Dampened With Water During The Grading Operation.

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 (SWPP) 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.

Water Pollution And Erosion Control Notes (Con't)

7. Submit Site-specific Bmp Plan To The Engineer Along With A Completed Site-specific Bmp Review Checklist Within 30 Calendar Days Of Contract Execution. 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 30 Calendar Days Of Contract Execution. 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.

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Michael H. Okamoto April 30, 2020
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION NOTES – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.4 OF 65 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	6	65

Water Pollution And Erosion Control Notes (Con't)

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. 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.

Water Pollution And Erosion Control Notes (Con't)

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.

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

Water Pollution And Erosion Control Notes (Con't)

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
Fertilizer	Metal Studs
Detergents	Petroleum Based Products
Wood	Paints (Enamel And Latex)
Masonry Block	

b. Material Management Practices Shall Be Used To Reduce The Risk Of Spills Or Other Accidental Exposure Of Materials And Substances To Storm Water Runoff. An Effort Shall Be Made To Store Only Enough Product As Is Required To Do The Job.

c. All Materials Stored Onsite Shall Be Stored In a Neat, Orderly Manner In Their Appropriate Containers And If Possible Under a Roof Or Other Enclosure.

d. Products Shall Be Kept In Their Original Containers With The Original Manufacturer's Label.

e. Substances Shall Not Be Mixed With Another Unless Recommended By The Manufacturer.

f. Whenever Possible, a Product Shall Be Used Up Completely Before Disposing Of The Container.

g. Manufacturer's Recommendations For Proper Use And Disposal Shall Be Followed.

Water Pollution And Erosion Control Notes (Con't)

h. The Contractor Shall 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.

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Michael H. Okamoto April 30, 2020
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION NOTES - 3

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 - ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.5 OF 65 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	7	65

Water Pollution And Erosion Control Notes (Con't)

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

Water Pollution And Erosion Control Notes (Con't)

586-4309, And The Hawaii State Hospital Operator At 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.

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.1. The Calculated Land Disturbance Area For This Project Based On The Construction Plans Is 17.06 Acres Including Contractor Staging And Storage Areas. If The Total Of The Disturbed Area And The Contractor Staging And Storage Area Is One Acre Or Greater, The Contractor Shall Obtain The NPDES Construction Activities Permit Using HDOT's Latest SWPPP Template. See Hawaii Administrative Rules Chapter 11-55, Appendix C For The Definition Of Land Disturbance. The Contractor Shall Be Responsible For Obtaining The Required NPDES Construction Activities Permit And

2. Complying With The Requirements Of HAR 11-55 Including, But Not Limited To

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.

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-

Water Pollution And Erosion Control Notes (Con't)

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.

F. (Continued)
Follow The Requirements Below:

1. Protect All Drainage Inlets Receiving Runoff From Disturbed Areas (sc-2).

2. Contain On-site Runoff Using Perimeter Sediment Controls

a. SC-1 Silt Fence
b. SC-5 Vegetated Filter Strips And Buffers
c. SC-8 Compost Filter Berm
d. SC-13 Sandbag Barrier
e. SC-14 Brush Or Rock Filter

3. Control Offsite Runoff From Entering Construction Area

a. SC-8 Run-on Diversion
b. SC-6 Earth Dike
c. SC-7 Temporary Drains And Swales

4. Incorporate Applicable Site Management Bmp

a. SM-1 Employee Training
b. SM-2 Material Delivery And Storage
c. SM-3 Material Use
d. SM-4 Protection Of Stockpiles
e. SM-6 Solid Waste Management
f. SM-7 Sanitary/septic Waste Management
g. SM-9 Hazardous Waste Management
h. SM-10 Spill Prevention And Control
i. SM-11 Vehicle And Equipment Cleaning
j. SM-12 Vehicle And Equipment Maintenance
k. SM-13 Vehicle And Equipment Refueling
l. SM-14 Scheduling
m. SM-15 Location Of Potential Sources Of Sediment
n. SM-16 Preservation Of Existing Vegetation
o. SM-18 Dust Control

5. Contain Pollutants Within The Construction Staging/storage Area Bmp With Applicable Perimeter

Water Pollution And Erosion Control Notes (Con't)

Sediment Controls And Site Management Bmp. Include A Stabilized Construction Entrance/exit (ec-2) 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-5) 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.

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No. 8624-C
HAWAII, U.S.A.

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Michael H. Okamoto April 30, 2020
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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION NOTES - 4

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 - ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.6 OF 65 SHEETS

"AS-BUILT"

C.O. 7

ORIGINAL PLAN
NOTE BOOK
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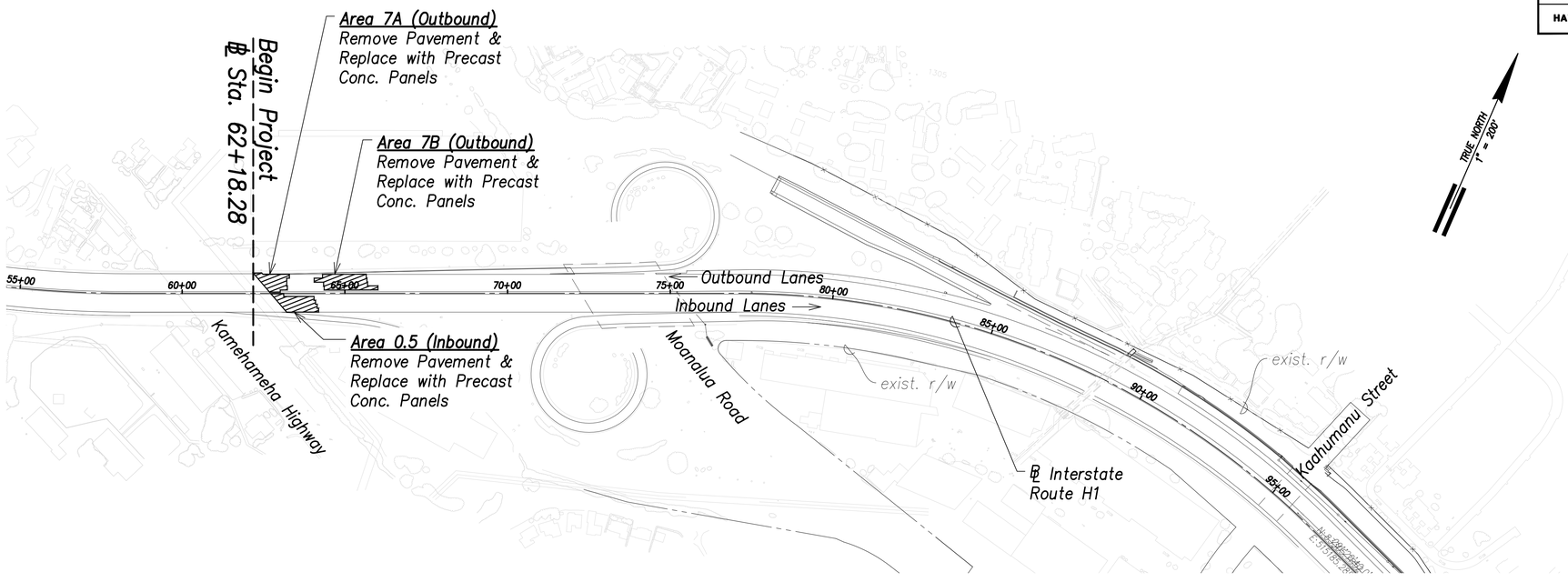
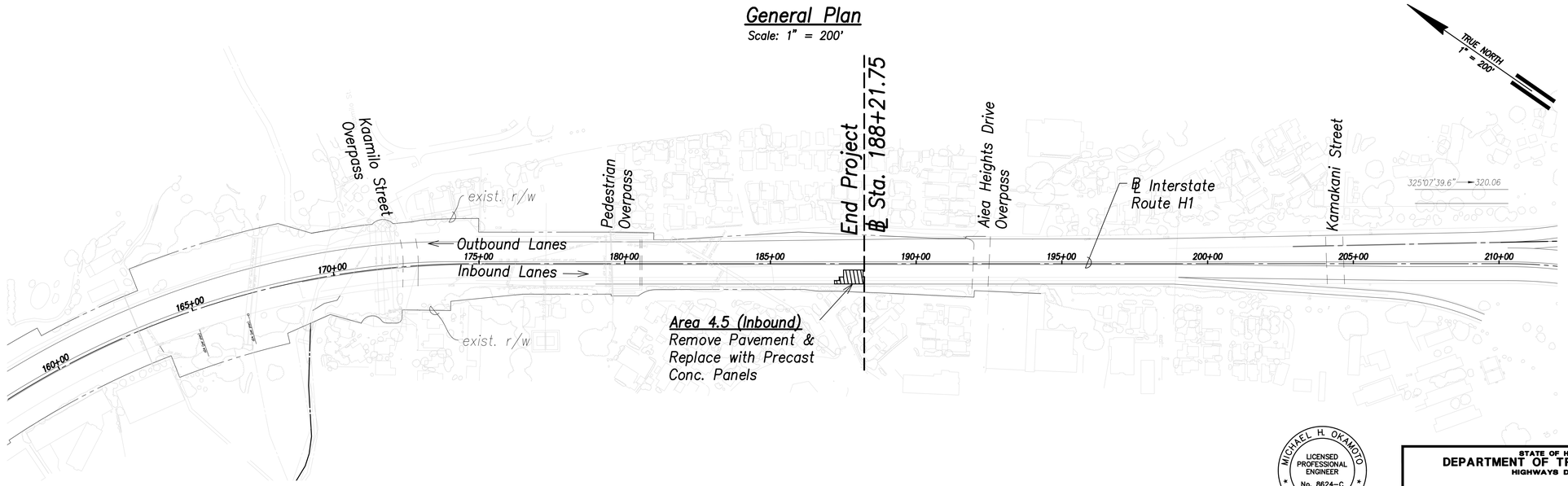
\\RMTC-FS\Project\civil\23060 h1 widening\project closeout\as-builts\dwg - ph3\construction drawings\Construction Notes - 4.dwg 2/5/2020 2:02 PM CHRISTOPHER CO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18		65



General Plan
Scale: 1" = 200'



General Plan
Scale: 1" = 200'

Legend

Work Area

Graphic Scale:

1" = 200' 200' 100' 0 200' 400'

MICHAEL H. OKAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8624-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL PLAN

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.7 OF 65 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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"AS-BUILT"

C.O. 8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	9	65

exist. r/w

TRUE NORTH
1"=20'

Sta. HLC113
Mag. Nail
℄ Sta. 61+15.42
O/S 74.62' Lt.
82,695.70 N
511,780.46 E
Elev=64.31

Sta. HLC112
Mag Nail
℄ Sta. 65+27.04
O/S 85.96 Lt.
82,871.14 N
512,153.00 E
Elev=76.73

Sta. HLC110
Mag. Nail
℄ Sta. 61+42.35
O/S 37.37' Lt.
82,671.97 N
511,819.16 E
Elev=66.08

Outbound Lanes
To Waianae

℄ Interstate
Route H1

61+00 62+00 63+00 64+00 65+00 66+00 67+00

246°21'40" → 500.00' (℄ Sta. 62+00 to ℄ Sta. 67+00)

Inbound Lanes
To Honolulu →

170°45'28", 37.96'
(Benchmark to Sta. 62+00)

Sta. HLC105
Mag. Nail
℄ Sta. 65+24.85
O/S 65.77' Rt.
82,731.26 N
512,211.83 E
Elev=72.20

Benchmark
Mag Nail
℄ Sta. 61+90.56
O/S 36.77 Rt.
82,823.79 N
511,893.96 E
Elev=68.04

Sta. HLC107
Mag. Nail
℄ Sta. 63+84.02
O/S 89.00' Rt.
82,653.54 N
512,092.20 E
Elev=72.11

exist. r/w

Survey Control and Baseline Plan – 1

Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

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MICHAEL H. OKAMOTO LICENSED PROFESSIONAL ENGINEER No. 8624-C HAWAII, U.S.A.

Michael H. Okamoto April 30, 2020
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SURVEY CONTROL AND BASELINE PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C0.8 OF 65 SHEETS

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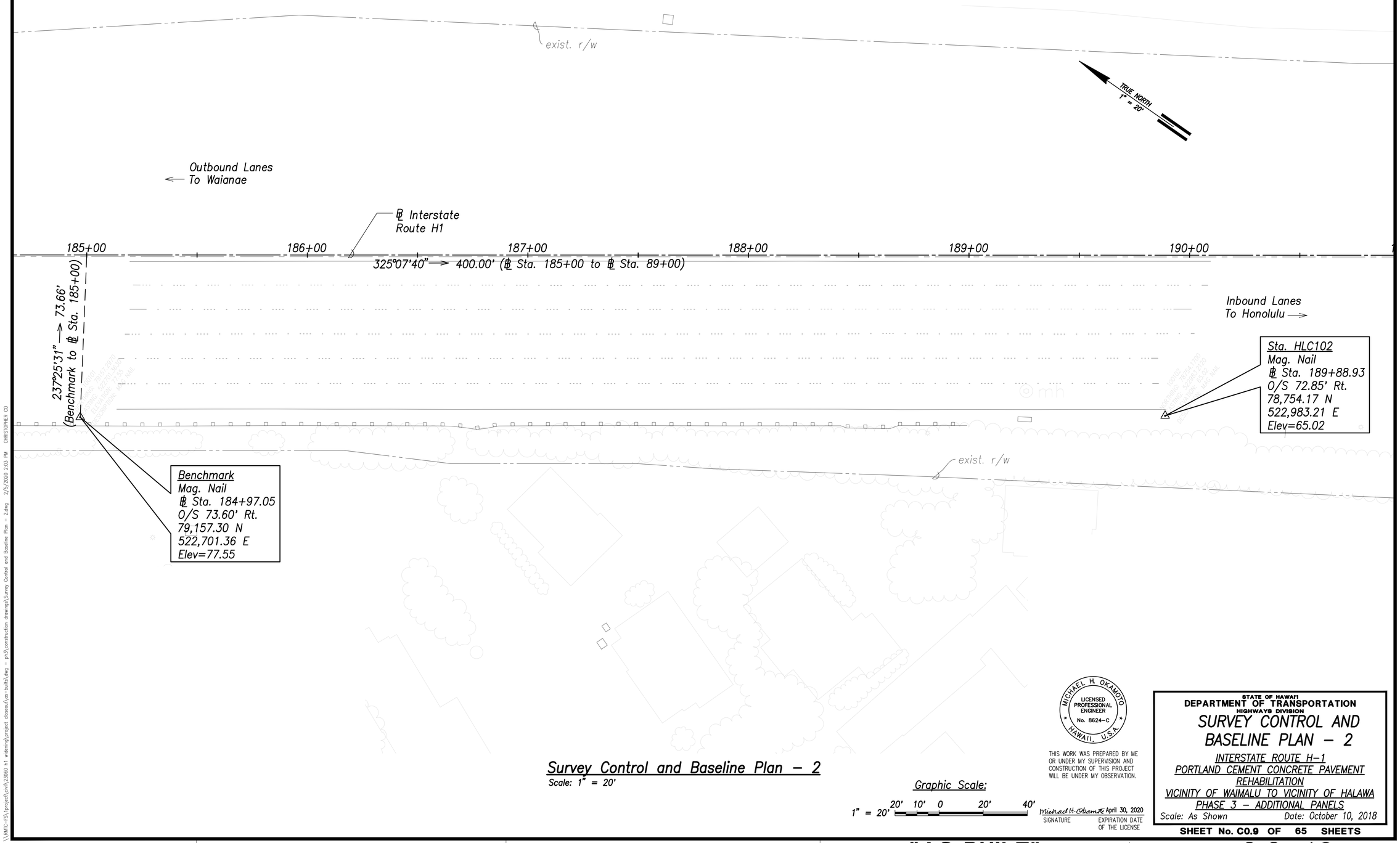
"AS-BUILT"

C.O. 9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	10	65



ORIGINAL PLAN
NOTE BOOK No.

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QUANTITIES BY ...
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Survey Control and Baseline Plan – 2

Scale: 1" = 20'

Graphic Scale:

1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8624-C
HAWAII, U.S.A.

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Michael H. Okamoto April 30, 2020
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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SURVEY CONTROL AND BASELINE PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

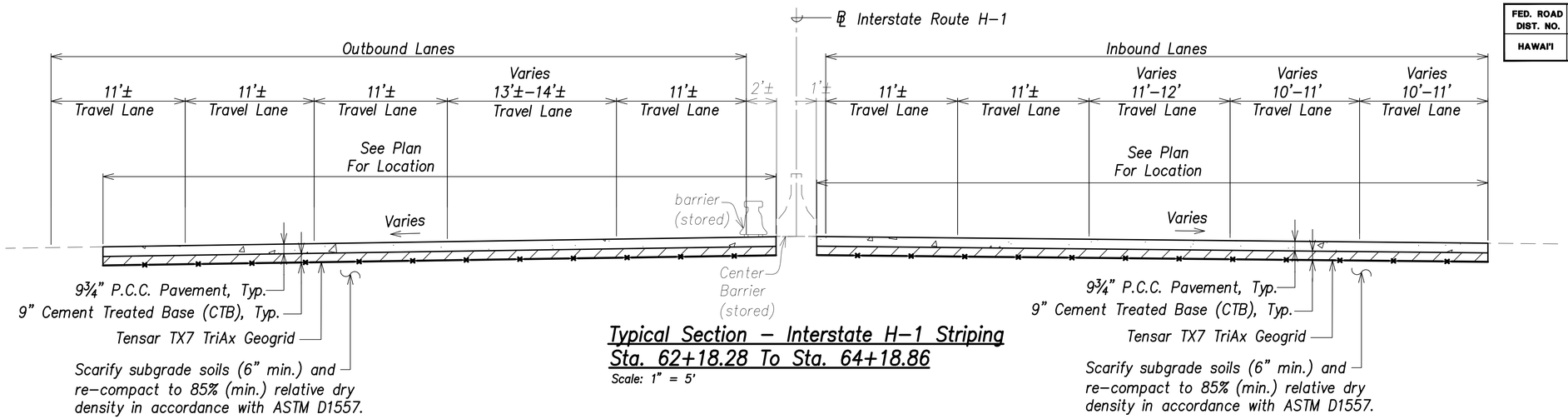
Scale: As Shown Date: October 10, 2018

SHEET No. C0.9 OF 65 SHEETS

"AS-BUILT"

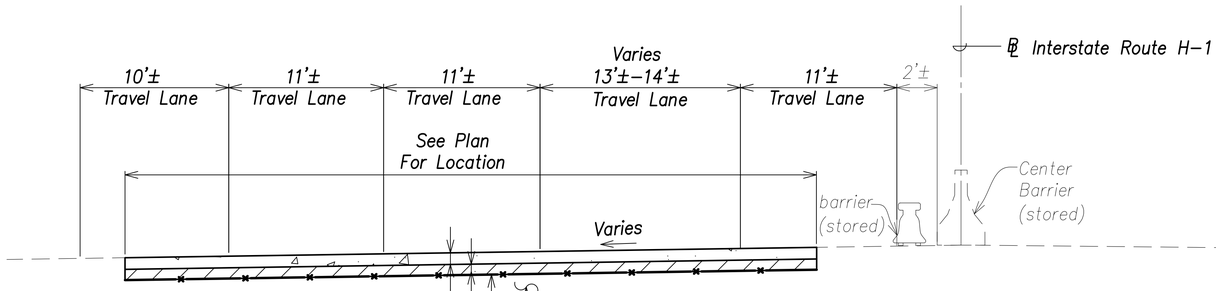
C.O. 10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	11	65



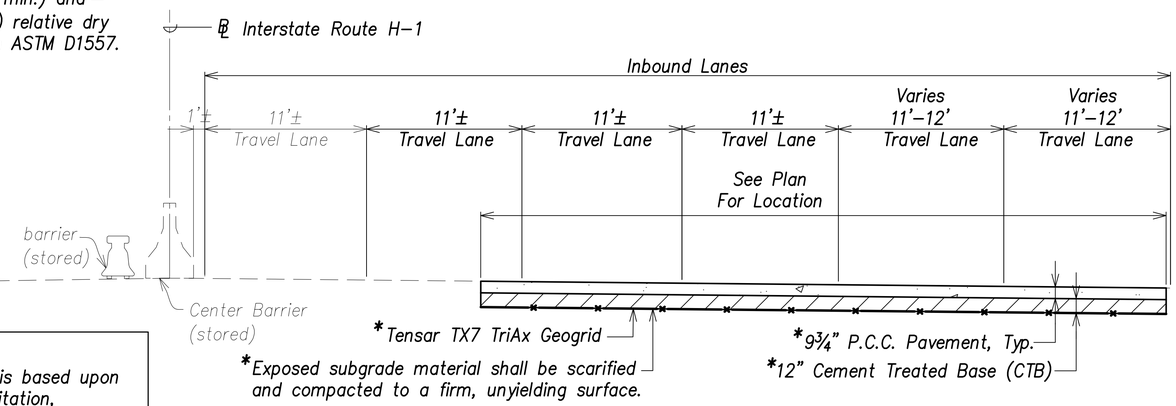
Typical Section – Interstate H-1 Striping Sta. 62+18.28 To Sta. 64+18.86

Scale: 1" = 5'



Typical Section – Interstate H-1 Striping Sta. 64+18.86 To Sta. 66+01.20

Scale: 1" = 5'



Typical Section – Interstate H-1 Striping Sta. 187+20.86 To Sta. 188+21.75

Scale: 1" = 5'

***Note:**

Pavement design and subgrade preparation is based upon the H-1 Shoulder Widening and PCC Rehabilitation, Additional Jointed Precast Concrete Panels – Area 4.5, FAP No. NH-H1-1(274) Memorandum from the State of Hawaii Department of Transportation, Highways Division, dated October 22, 2018.

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Graphic Scale:

1" = 5' 5' 0 5' 10'

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

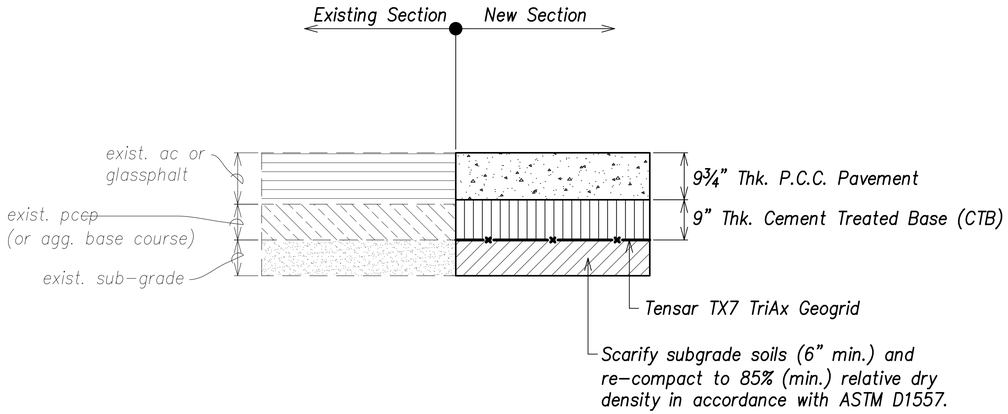
Scale: As Shown Date: October 10, 2018

SHEET No. C1.1 OF 65 SHEETS

"AS-BUILT"

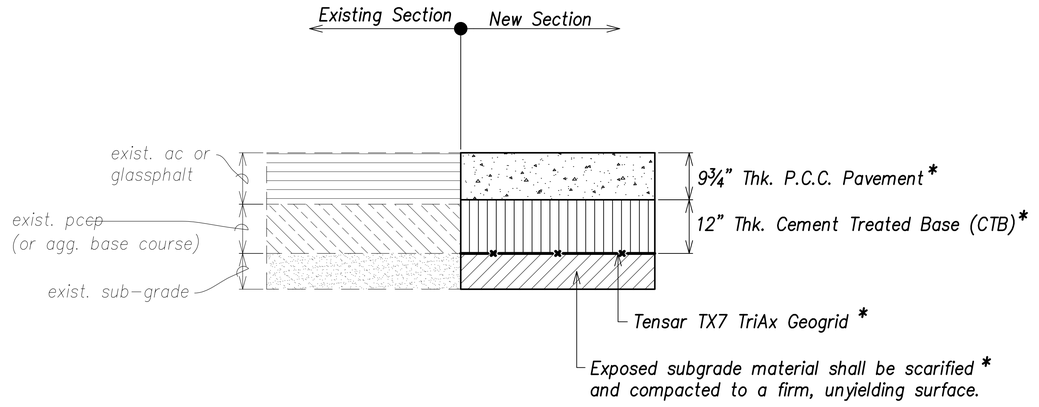
C.O. 11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	12	65



Typical Precast Concrete Panel Section – Area 7A, 7B, and 0.5

Scale: NTS



***Note:**
Pavement design and subgrade preparation is based upon the H-1 Shoulder Widening and PCC Rehabilitation, Additional Jointed Precast Concrete Panels – Area 4.5, FAP No. NH-H1-1(274) Memorandum from the State of Hawaii Department of Transportation, Highways Division, dated October 22, 2018.

Typical Precast Concrete Panel Section – Area 4.5

Scale: NTS

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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PAVEMENT SECTIONS

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

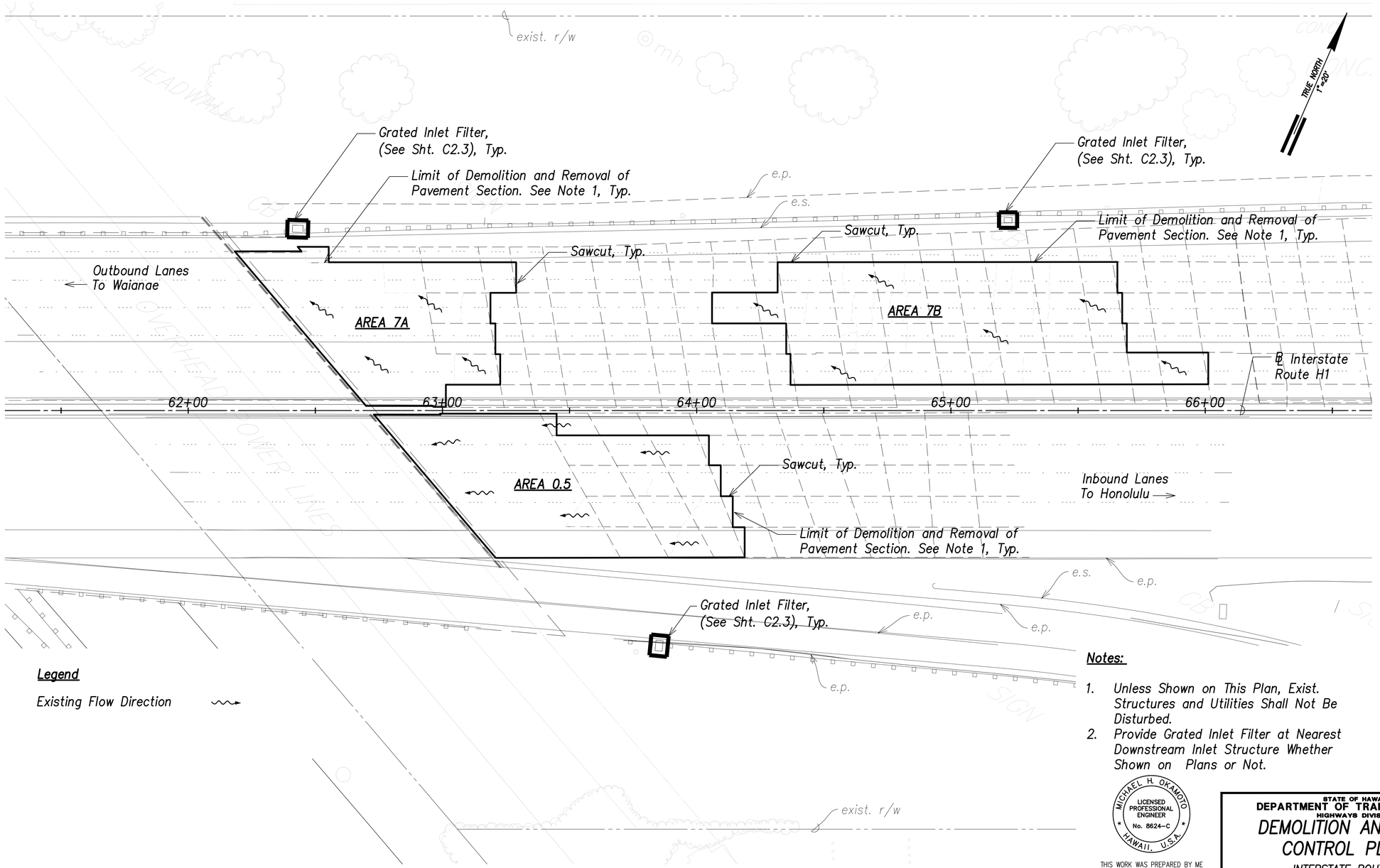
Scale: As Shown Date: October 10, 2018

SHEET No. C1.2 OF 65 SHEETS

"AS-BUILT"

C.O. 12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	13	65



Legend

Existing Flow Direction ~~~>

Notes:

1. Unless Shown on This Plan, Exist. Structures and Utilities Shall Not Be Disturbed.
2. Provide Grated Inlet Filter at Nearest Downstream Inlet Structure Whether Shown on Plans or Not.

Demolition and Erosion Control Plan – 1

Scale: 1" = 20'

Graphic Scale:

1" = 20' 20' 10' 0 20' 40'

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION AND EROSION CONTROL PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C2.1 OF 65 SHEETS

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NOTE BOOK | No.

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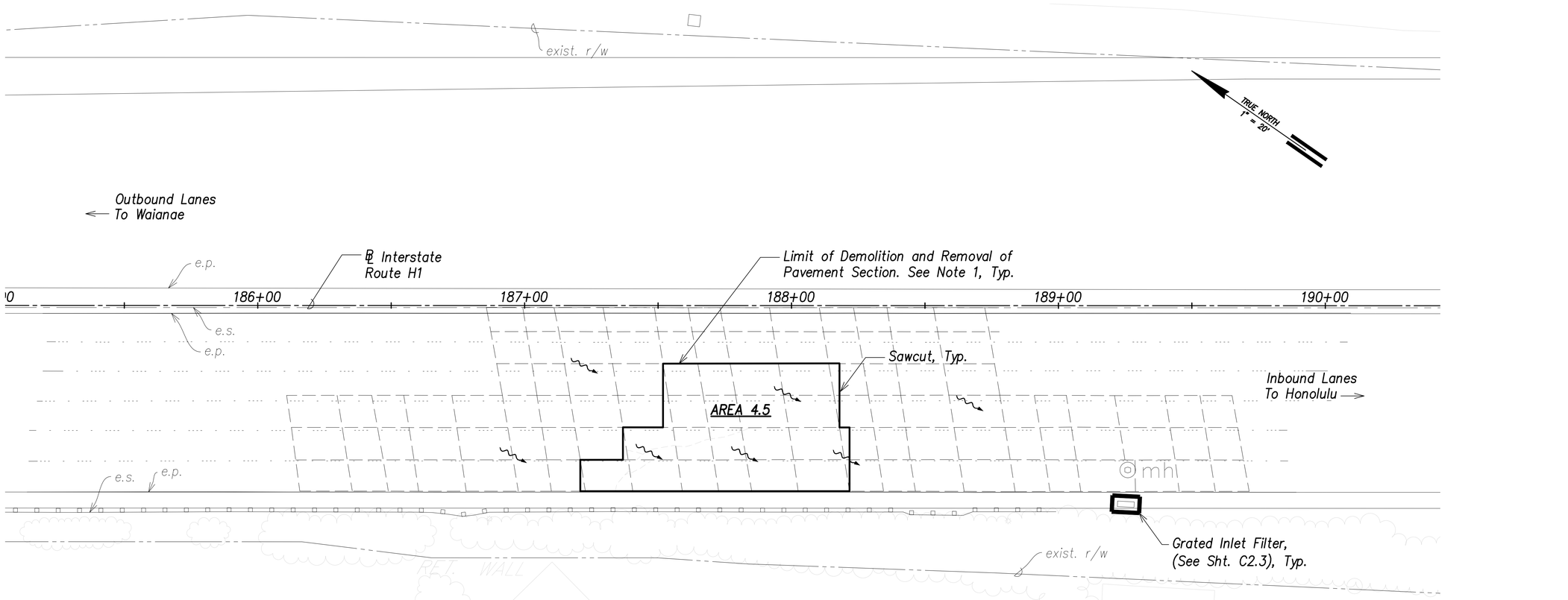
"AS-BUILT"

C.O. 13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	14	65



Legend

Existing Flow Direction ~~~>

Notes:

1. Unless Shown on This Plan, Exist. Structures and Utilities Shall Not Be Disturbed.
2. Provide Grated Inlet Filter at Nearest Downstream Inlet Structure Whether Shown on Plans or Not.

Demolition and Erosion Control Plan – 2
Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
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No. 8624-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION AND EROSION CONTROL PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C2.2 OF 65 SHEETS

ORIGINAL PLAN
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DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

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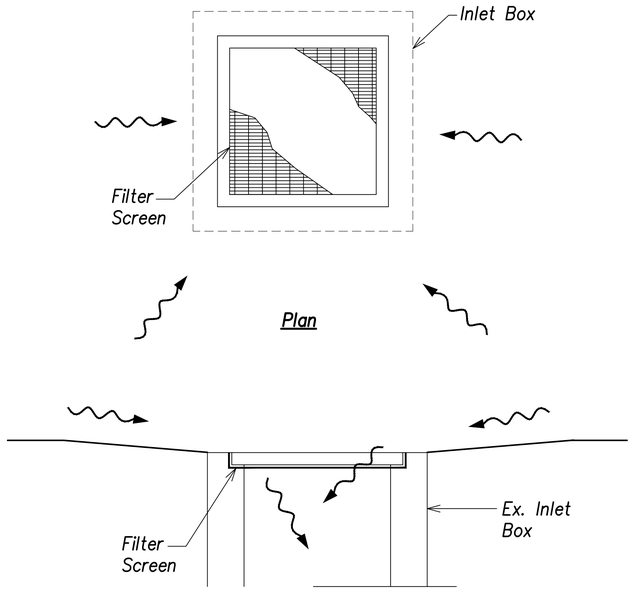
"AS-BUILT"

C.O. 14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	15	65



GRATED INLET FILTER

NOT TO SCALE

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

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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL DETAILS

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

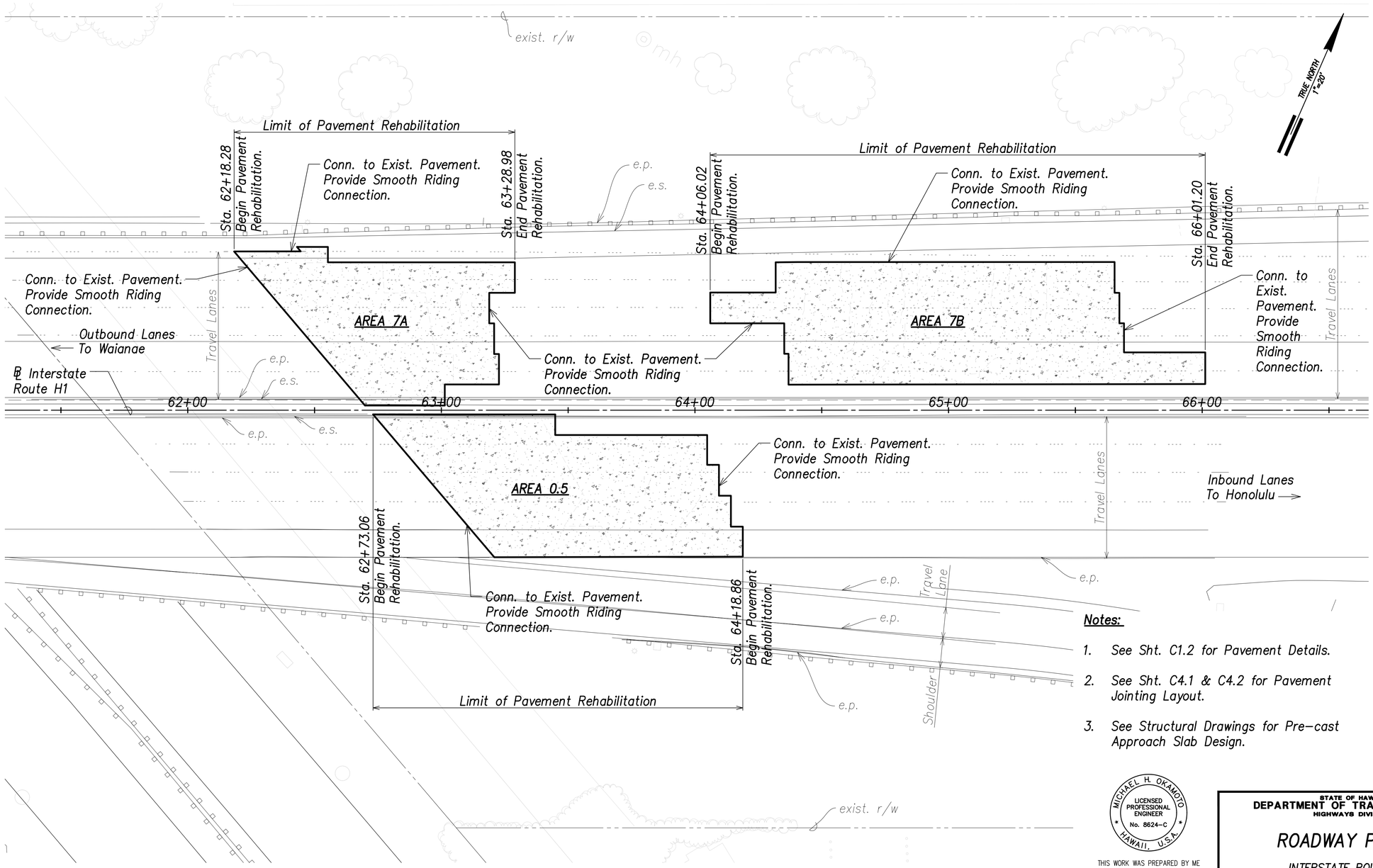
Scale: As Shown Date: October 10, 2018

SHEET No. C2.3 OF 65 SHEETS

"AS-BUILT"

C.O. 15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	16	65



Notes:

1. See Sht. C1.2 for Pavement Details.
2. See Sht. C4.1 & C4.2 for Pavement Jointing Layout.
3. See Structural Drawings for Pre-cast Approach Slab Design.

Roadway Plan – 1

Scale: 1" = 20'

Graphic Scale:

1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO LICENSED PROFESSIONAL ENGINEER No. 8624-C HAWAII, U.S.A.

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HIGHWAYS DIVISION

ROADWAY PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C3.1 OF 65 SHEETS

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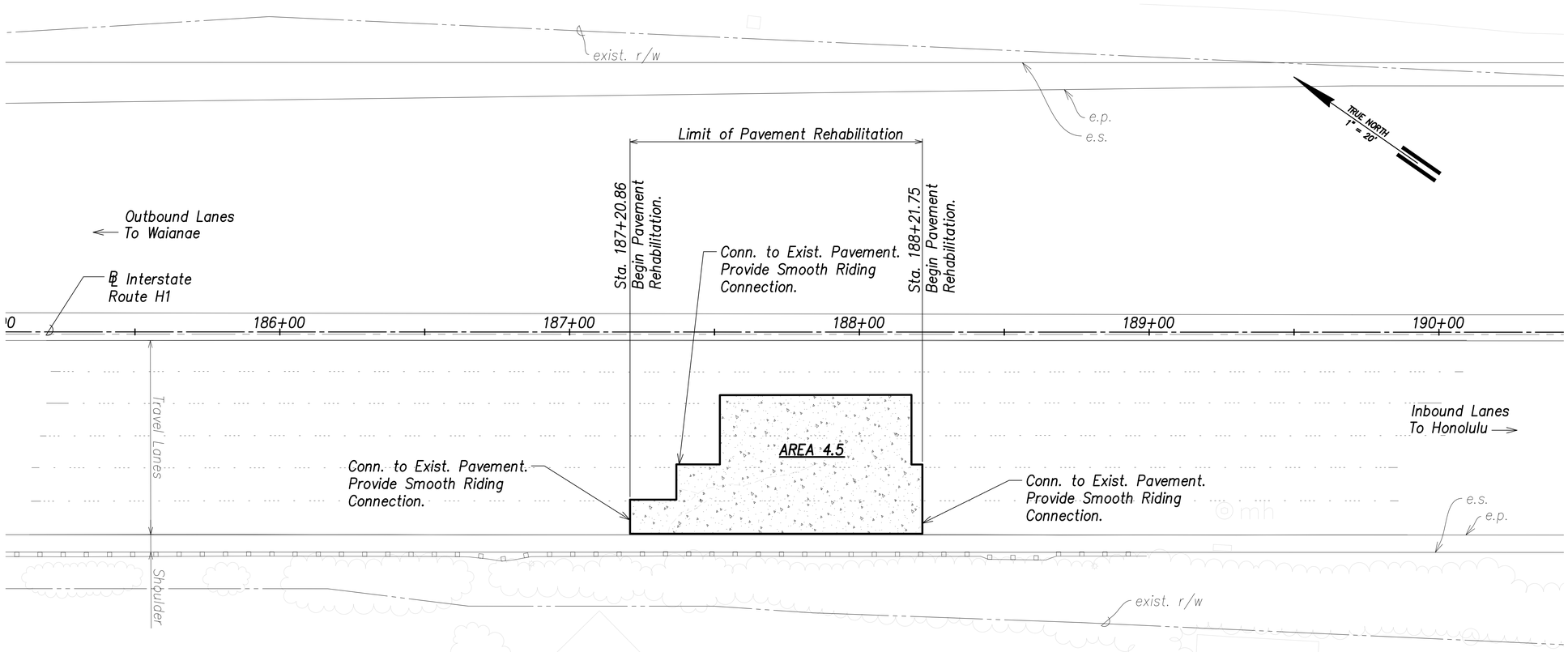
"AS-BUILT"

C.O. 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	17	65



Notes:

1. See Sht. C1.2 for Pavement Details.
2. See Sht. C4.2 for Pavement Jointing Layout.

Roadway Plan – 2
Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8624-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C3.2 OF 65 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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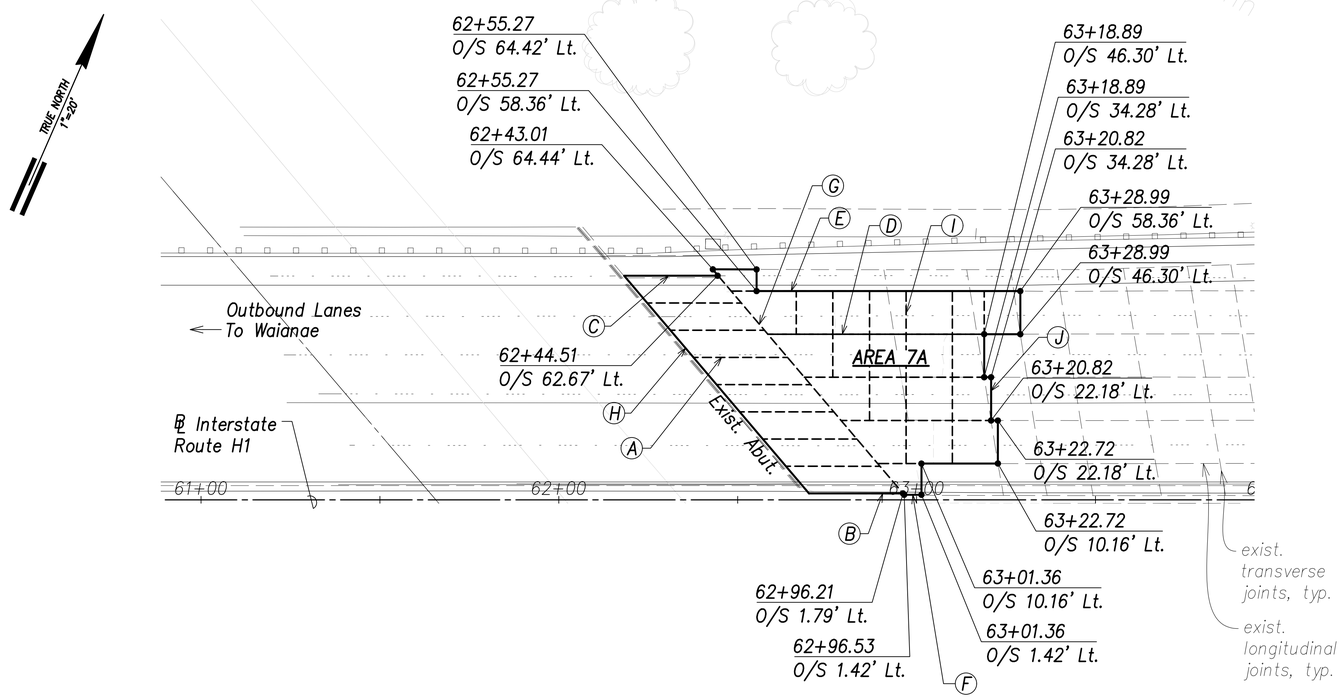
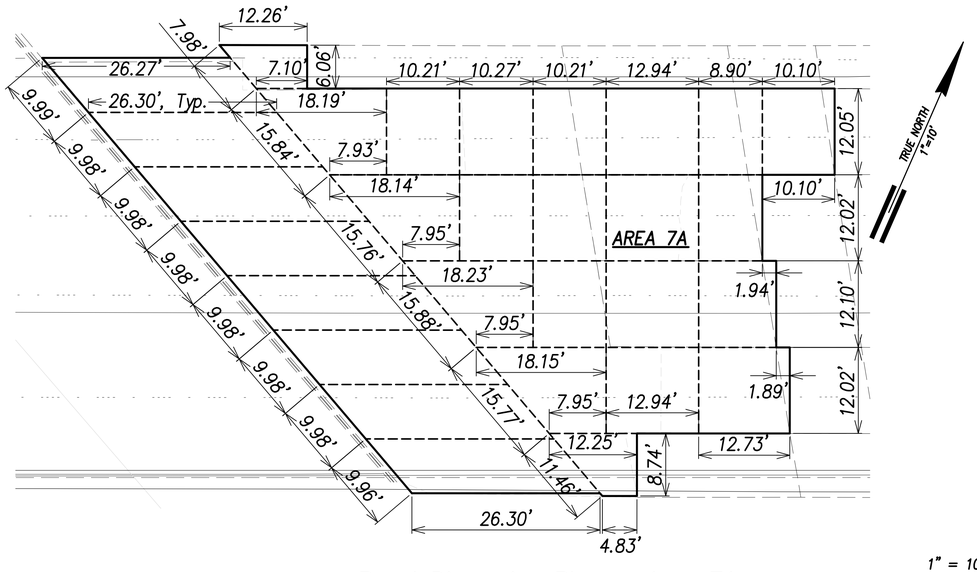
"AS-BUILT"
C.O. 17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	18	65



Panel Layout Plan – Area 7A

Scale: 1" = 20'



Panel Dimension Plan – Area 7A

Scale: 1" = 10'

Notes:

1) Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

2) Station, offset, and dimension information is based upon the center of the joint.

Legend

Typical Existing Transverse or Longitudinal Joint – – – –

Pre-Cast PCC Panel ––––––––

Limit of PCC Pavement Rehabilitation ————

(A) Typical Approach Slab Longitudinal Joint Detail (Between New Panels), 4/S2.5 Typ.

(B) Typical Approach Slab Longitudinal Joint Detail (New Panel to Existing Median Slab – WB Side), 5/S2.5 Typ.

(C) Typical Approach Slab Longitudinal Joint Detail (New Panel to Existing Approach Slab), 5/S2.6 Typ.

(D) Typical Longitudinal Joint Detail (Between New Panels), 4/S1.6 Typ.

(E) Typical Longitudinal Joint Detail (New Panel to Existing PCC), 5/S1.6 Typ.

(F) Typical Longitudinal Joint Detail (New Panel to Existing Barrier Wall), 7/S1.6 Typ.

(G) Typical Approach Slab Transverse Joint Detail at Sleeper Slab, Typ. 3/S-2.4

(H) Provide 1/2" joint between existing viaduct backwall and precast concrete approach slab. See Typical Approach Slab Transverse Joint Detail (At Viaduct – Perpendicular to Abutment), Typ. 4 or 5/S2.4

(I) Typical Transverse Joint Detail (Between New Panels), 4/S1.5 Typ.

(J) Typical Transverse Joint Detail (At New Panel to Existing PCC), 5/S1.5 Typ.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
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Graphic Scale:

1" = 10' 10' 5' 0 10' 20'

1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8624-C
HAWAII, U.S.A.

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Michael H. Okamoto April 30, 2020
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT JOINTING PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

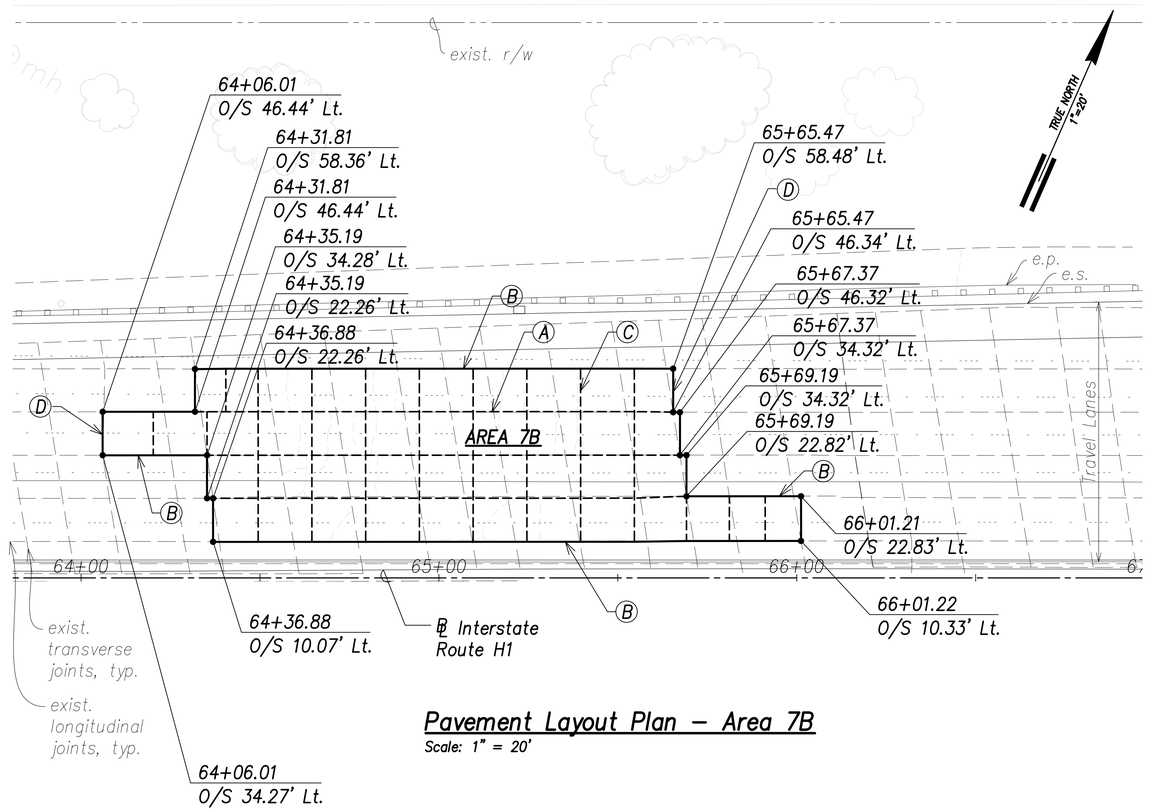
Scale: As Shown Date: October 10, 2018

SHEET No. C4.1 OF 65 SHEETS

"AS-BUILT"

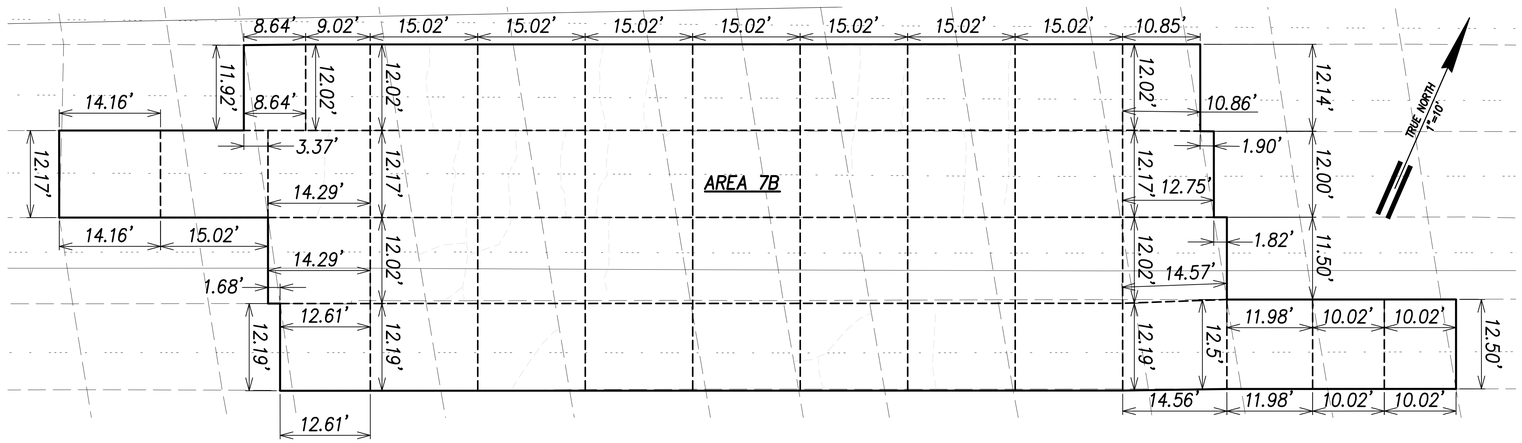
C.O. 18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	19	65



Pavement Layout Plan – Area 7B

Scale: 1" = 20'



Pavement Dimension Plan – Area 7B

Scale: 1" = 10'

Graphic Scale:

1" = 10' 10' 5' 0 10' 20'

1" = 20' 20' 10' 0 20' 40'

Ⓐ Typical Longitudinal Joint Detail (Between New Panels), 4/S1.6 Typ.

Ⓑ Typical Longitudinal Joint Detail (New Panel to Existing PCC), 5/S1.6 Typ.

Ⓒ Typical Transverse Joint Detail (Between New Panels), 4/S1.5 Typ.

Ⓓ Typical Transverse Joint Detail (At New Panel to Existing PCC), 5/S1.5 Typ.

Notes:

1) Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

2) Station, offset, and dimension information is based upon the center of the joint.

Legend

Typical Existing Transverse or Longitudinal Joint

Pre-Cast PCC Panel

Limit of PCC Pavement Rehabilitation

MICHAEL H. OKAMOTO
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No. 8624-C
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Michael H. Okamoto April 30, 2020
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT JOINTING PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C4.2 OF 65 SHEETS

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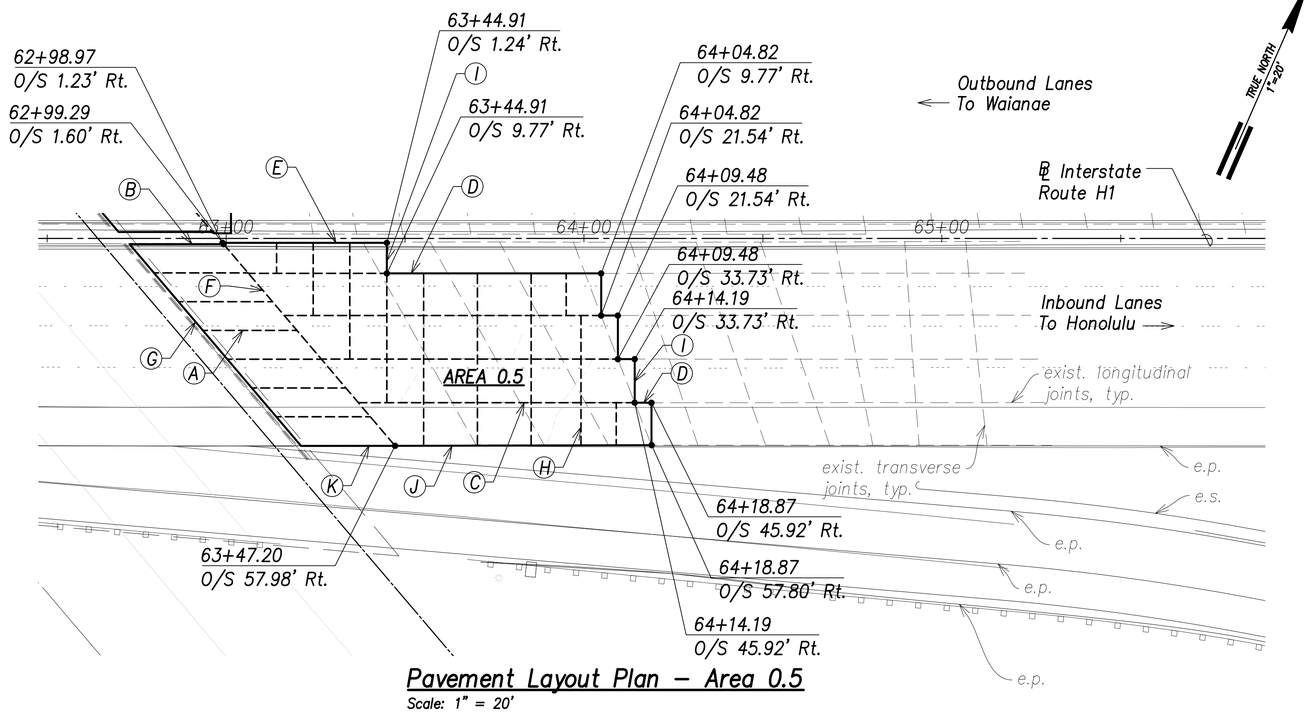
"AS-BUILT"

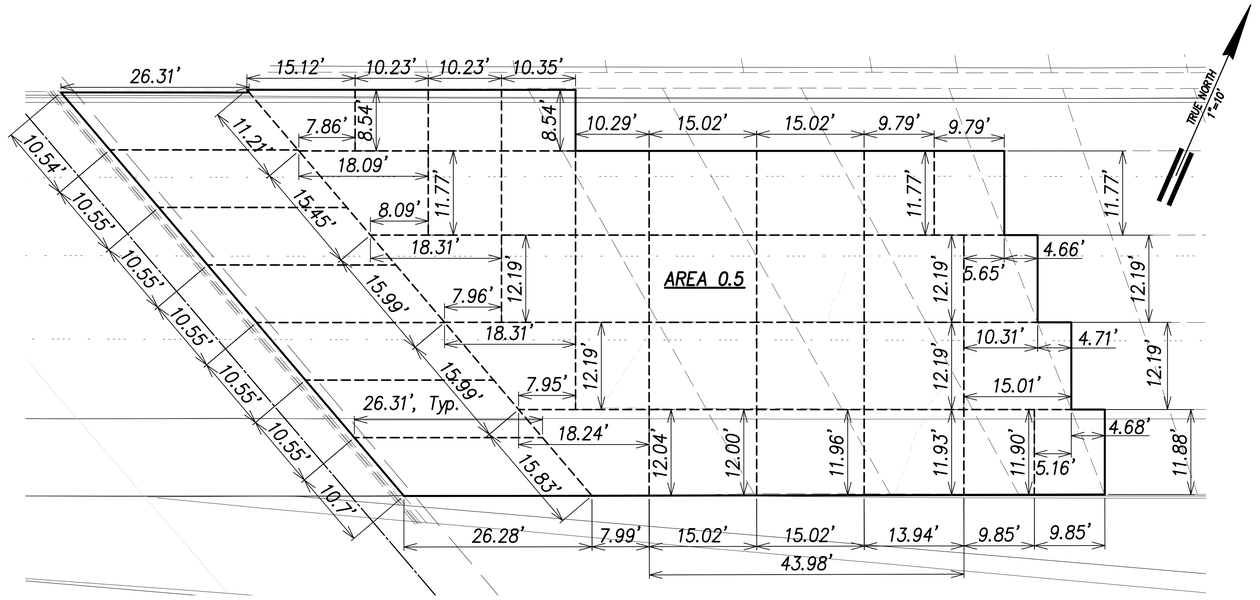
C.O. 19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	20	65



Pavement Layout Plan – Area 0.5

Scale: 1" = 20'



Pavement Dimension Plan – Area 0.5

Scale: 1" = 10'

Graphic Scale:

1" = 10' 10' 5' 0 10' 20'

1" = 20' 20' 10' 0 20' 40'

Typical Approach Slab Longitudinal Joint Detail (Between New Panels), (4 / S2.5) Typ.

Typical Approach Slab Longitudinal Joint Detail (New Panel to Existing Median Slab – EB Side), (4 / S2.6) Typ.

Typical Longitudinal Joint Detail (Between New Panels), (4 / S1.6) Typ.

Typical Longitudinal Joint Detail (New Panel to Existing PCC), (5 / S1.6) Typ.

Typical Longitudinal Joint Detail (New Panel to Existing Barrier Wall), (7 / S1.6) Typ.

Typical Approach Slab Transverse Joint Detail at Sleeper Slab, (3 / S-2.4) Typ.

Provide 1/2" joint between existing viaduct backwall and precast concrete approach slab. See Typical Approach Slab Transverse Joint Detail (At Viaduct – Perpendicular to Abutment), (4 or 5 / S2.4) Typ.

Typical Transverse Joint Detail (Between New Panels), (4 / S1.5) Typ.

Typical Transverse Joint Detail (At New Panel to Existing PCC), (5 / S1.5) Typ.

Typical Longitudinal Joint Detail (New Panel to Existing AC Pavement), (6 / S1.6) Typ.

Typical Approach Slab Longitudinal Joint Detail (New Panel to Existing Approach Slab), (7 / S1.6) Typ.

Notes:

1) Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

2) Station, offset, and dimension information is based upon the center of the joint.

Legend

Typical Existing Transverse or Longitudinal Joint

Pre-Cast PCC Panel

Limit of PCC Pavement Rehabilitation

MICHAEL H. OKAMOTO
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Michael H. Okamoto April 30, 2020
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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT JOINTING PLAN – 3

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C4.3 OF 65 SHEETS

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NOTE BOOK | No.

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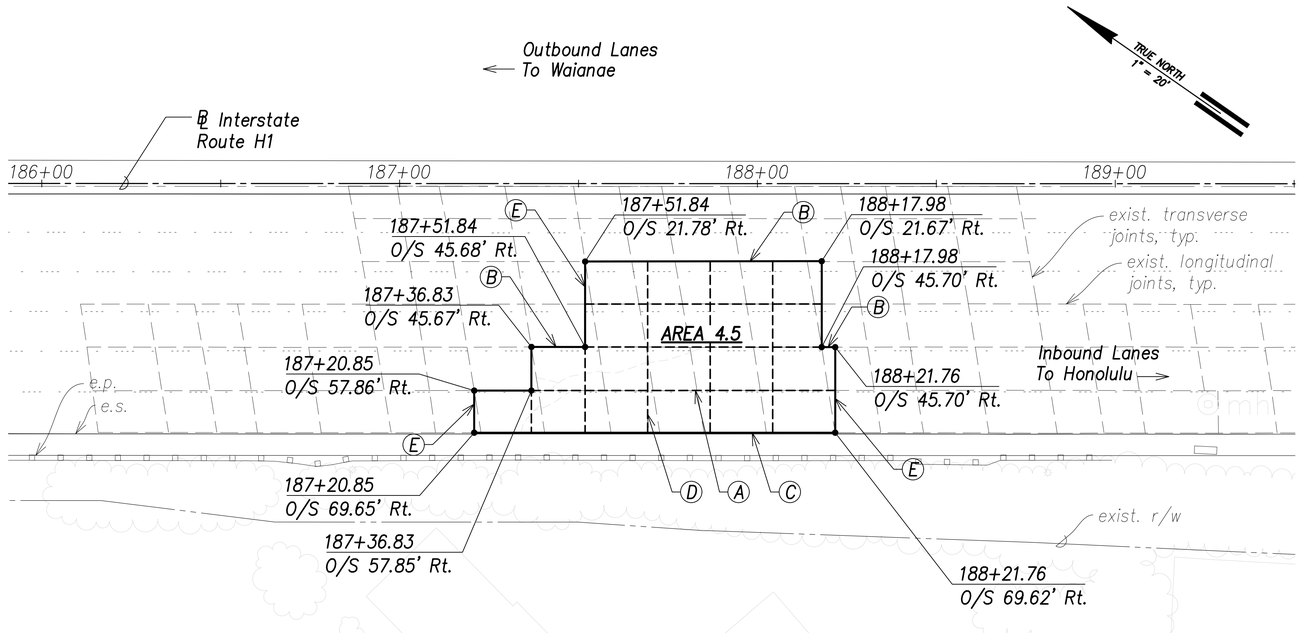
"AS-BUILT"

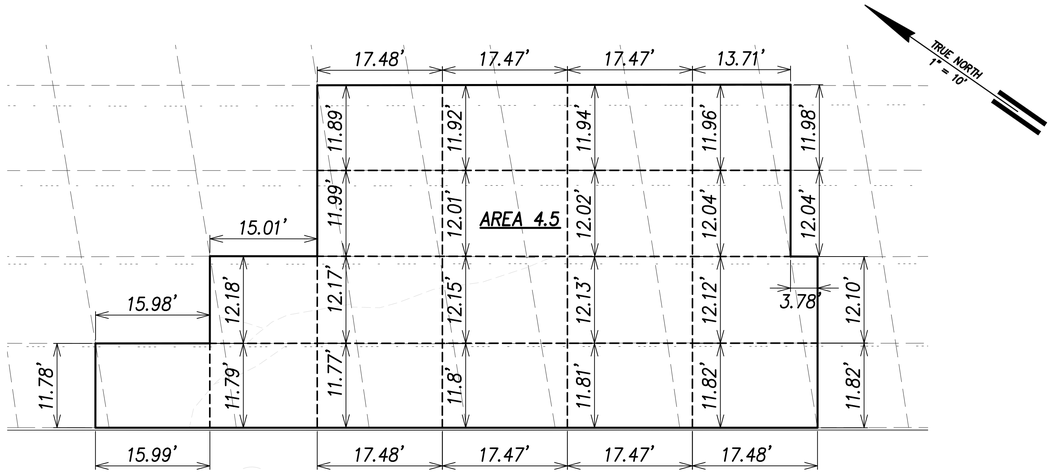
C.O. 20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	21	65



Pavement Layout Plan – Area 4.5

Scale: 1" = 20'



Pavement Dimension Plan – Area 4.5

Scale: 1" = 10'

Notes:

1) Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

2) Station, offset, and dimension information is based upon the center of the joint.

Legend

Typical Existing Transverse or Longitudinal Joint — — — —

Pre-Cast PCC Panel ————————

Limit of PCC Pavement Rehabilitation ——————

Ⓐ Typical Longitudinal Joint Detail (Between New Panels), 4/S1.6 Typ.

Ⓑ Typical Longitudinal Joint Detail (New Panel to Existing PCC), 5/S1.6 Typ.

Ⓒ Typical Longitudinal Joint Detail (New Panel to Existing AC Pavement), 6/S1.6 Typ.

Ⓓ Typical Transverse Joint Detail (Between New Panels), 4/S1.5 Typ.

Ⓔ Typical Transverse Joint Detail (At New Panel to Existing PCC), 5/S1.5 Typ.

Graphic Scale:

1" = 10' 10' 5' 0 10' 20'

1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
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No. 8624-C
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Michael H. Okamoto April 30, 2020
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT JOINTING PLAN – 4

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C4.4 OF 65 SHEETS

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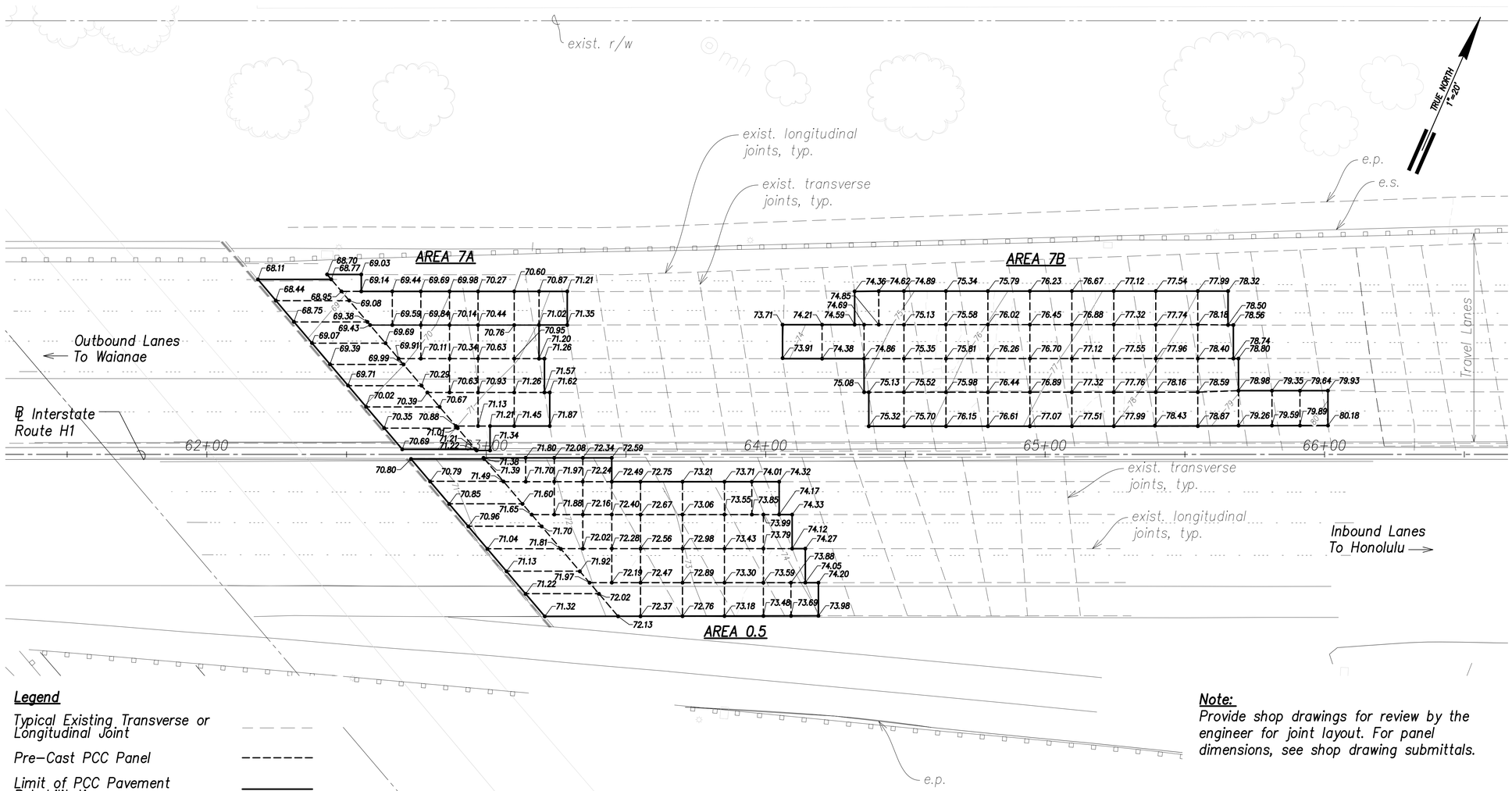
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	22	65



Legend

Typical Existing Transverse or Longitudinal Joint

Pre-Cast PCC Panel

Limit of PCC Pavement Rehabilitation

Finished Panel Grade at Center of Joint — 71.32

Note:
Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

Pavement Jointing Grading Plan – 1

Scale: 1" = 20'

Graphic Scale:

1" = 20' 20' 10' 0 20' 40'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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PAVEMENT JOINTING GRADING PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

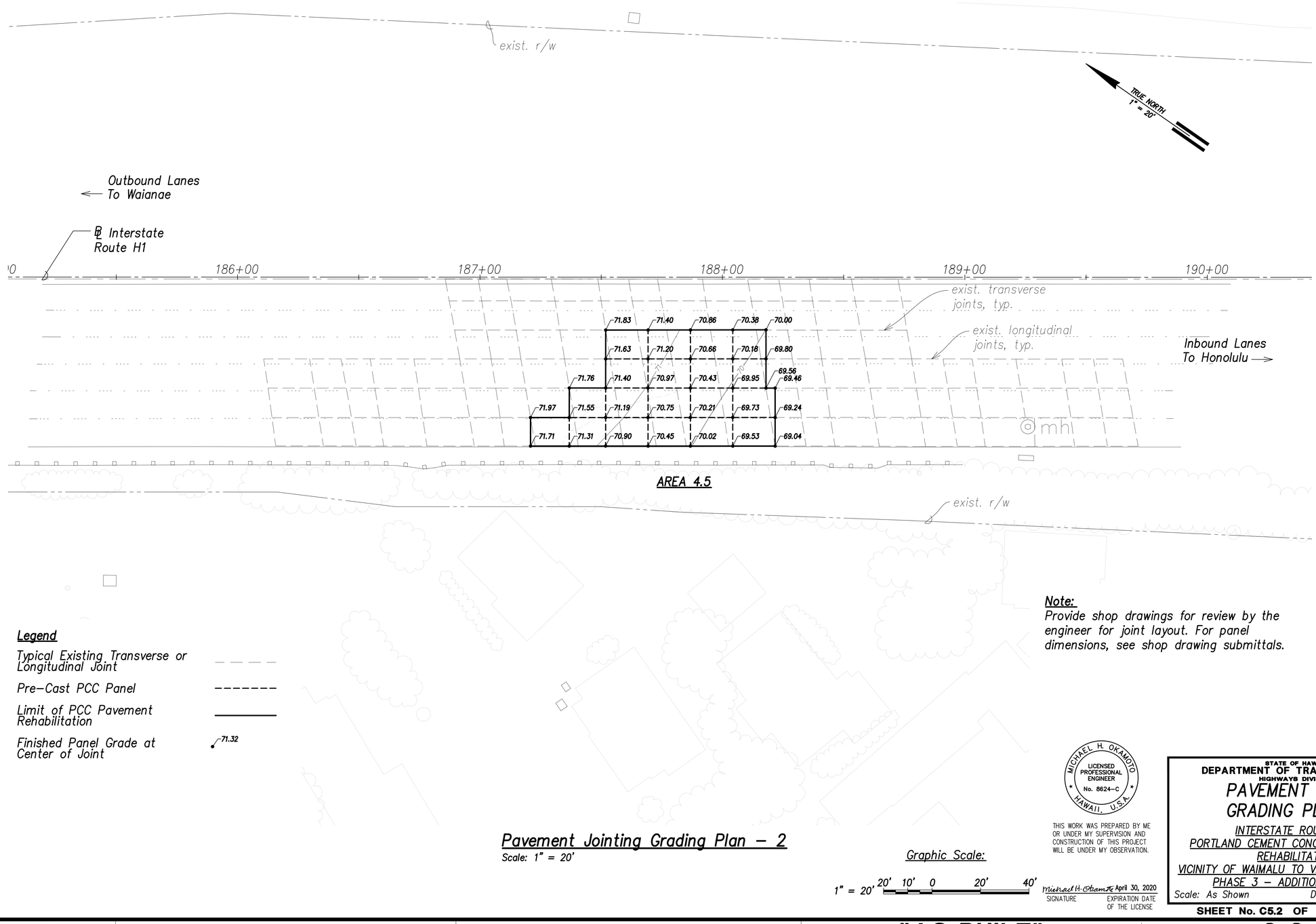
Scale: As Shown Date: October 10, 2018

SHEET No. C5.1 OF 65 SHEETS

"AS-BUILT"

C.O. 22

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	23	65



Legend

Typical Existing Transverse or Longitudinal Joint

Pre-Cast PCC Panel

Limit of PCC Pavement Rehabilitation

Finished Panel Grade at Center of Joint 71.32

Note:
Provide shop drawings for review by the engineer for joint layout. For panel dimensions, see shop drawing submittals.

Pavement Jointing Grading Plan – 2
Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
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HAWAII, U.S.A.

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STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT JOINTING GRADING PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C5.2 OF 65 SHEETS

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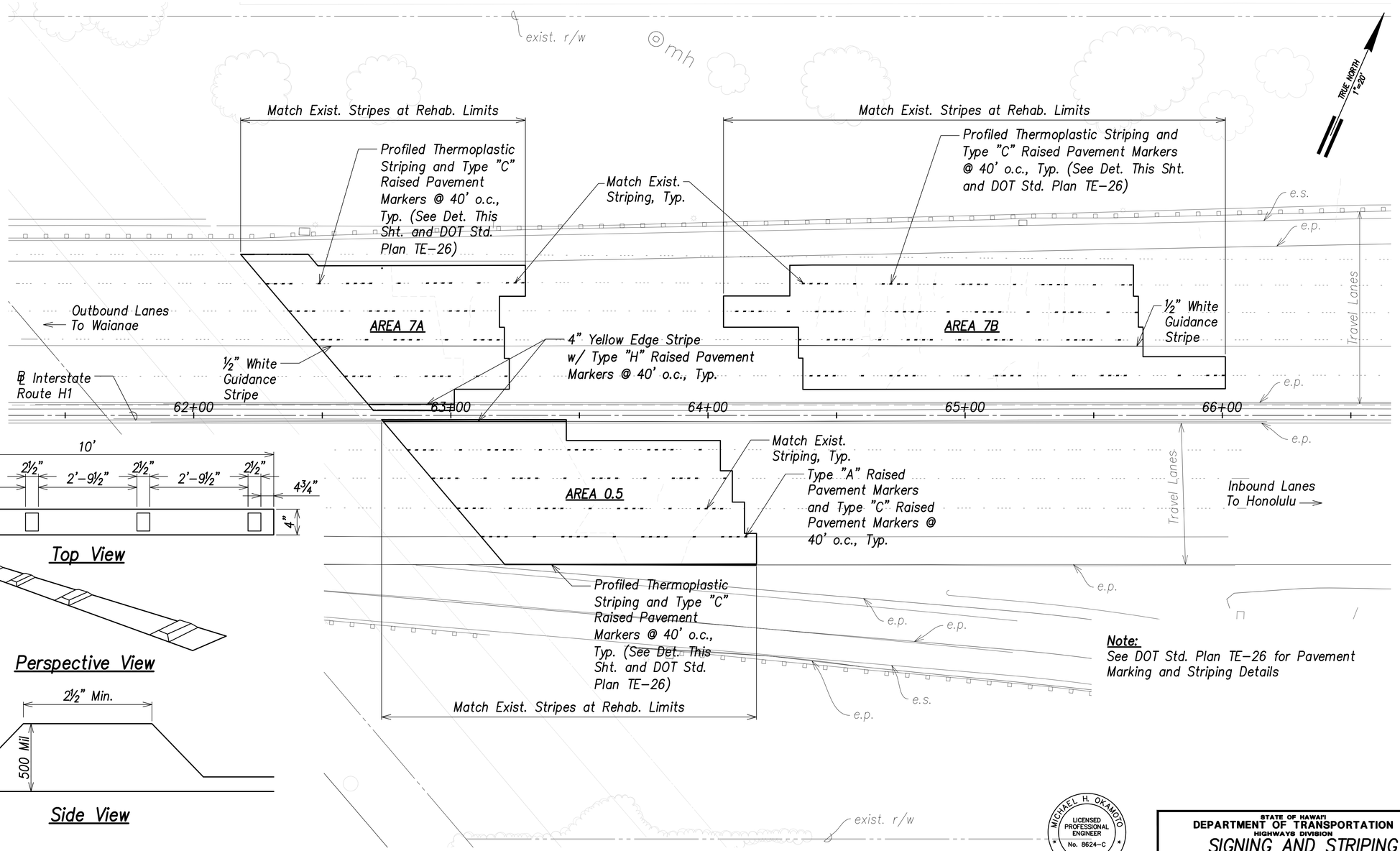
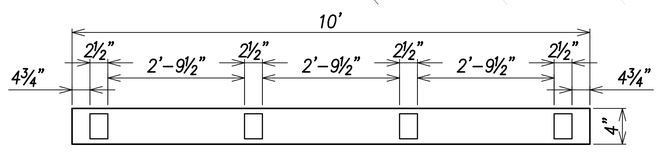
"AS-BUILT"

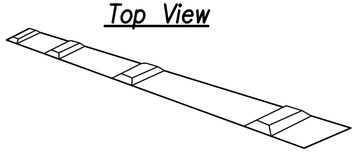
C.O. 23

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	24	65

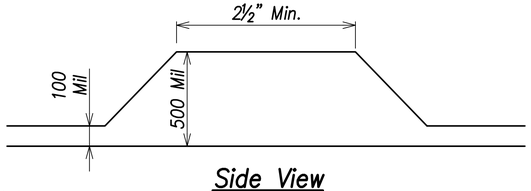




Top View



Perspective View



Side View

Note:

1. Profiles Shall be Placed on 36" o.c, Shall be 500 mil Height, Including 100 mil Baseline, and Shall Have a Width Equal to Approximately The Baseline Width.

Profiled Thermoplastic Striping
Not to Scale

Signing and Striping Plan – 1
Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

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Michael H. Okamoto April 30, 2020
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MICHAEL H. OKAMOTO LICENSED PROFESSIONAL ENGINEER No. 8624-C HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN – 1

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C6.1 OF 65 SHEETS

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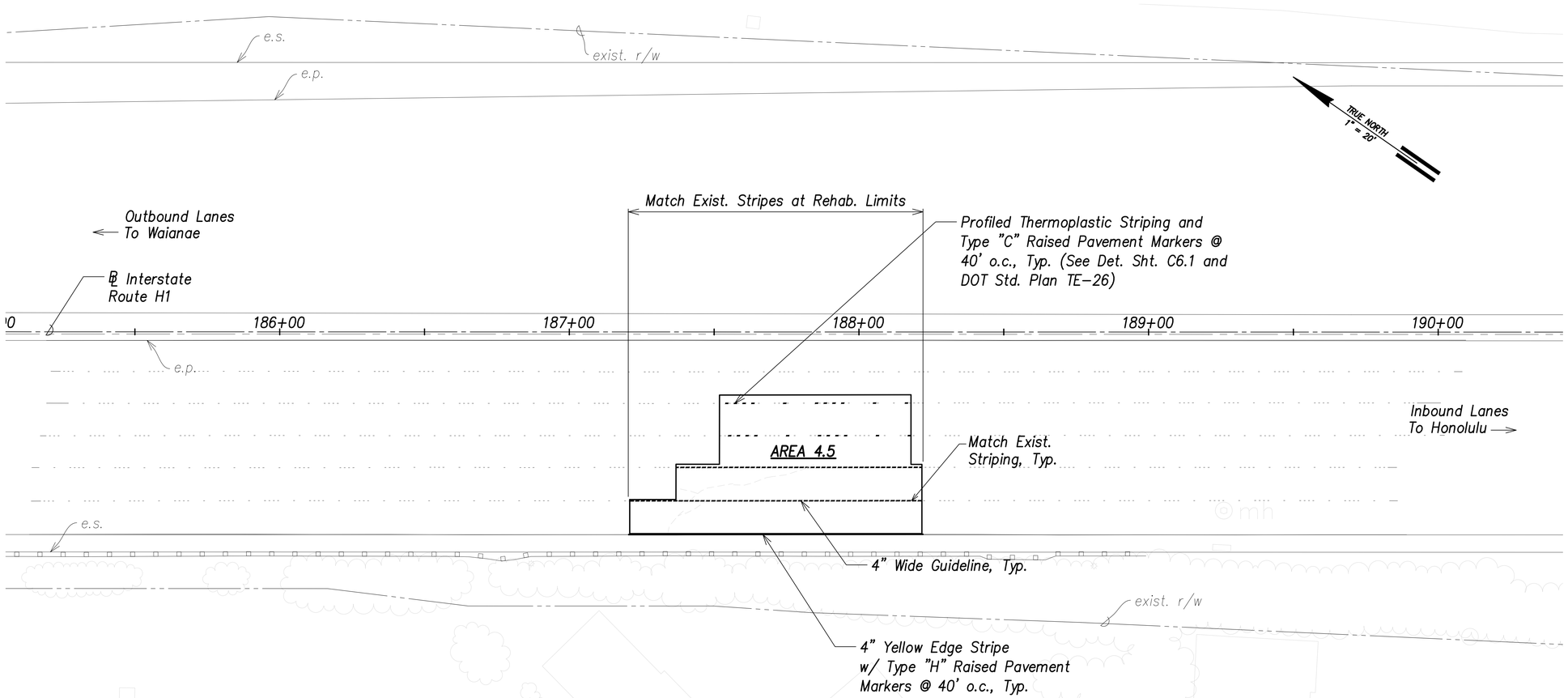
C.O. 24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	NH-H1-1(274)	FY18	25	65



Note:
See DOT Std. Plan TE-26 for Pavement Marking and Striping Details

Signing and Striping Plan – 2

Scale: 1" = 20'

Graphic Scale:
1" = 20' 20' 10' 0 20' 40'

MICHAEL H. OKAMOTO
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No. 8624-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN – 2

INTERSTATE ROUTE H-1
PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION
VICINITY OF WAIMALU TO VICINITY OF HALAWA
PHASE 3 – ADDITIONAL PANELS

Scale: As Shown Date: October 10, 2018

SHEET No. C6.2 OF 65 SHEETS

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