CIVIL DIVISION
DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

JOB NO. XX-XX

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

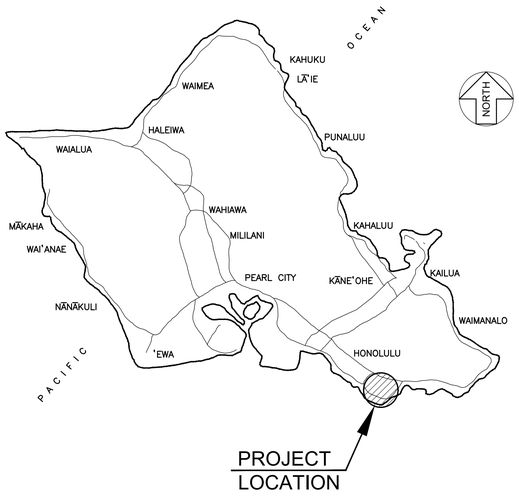
HONOLULU, O'AHU, HAWAI'I

TAX MAP KEY: (1) 3-1-04, 39, 40, 42 & 47; 3-2-09, 10, 11, 12, 13, 15, 16, 17, 18
56, 57, 58, 59, 60, 61 & 64; 3-3-05, 06 & 33; 3-5-02 & 13

PREPARED BY:

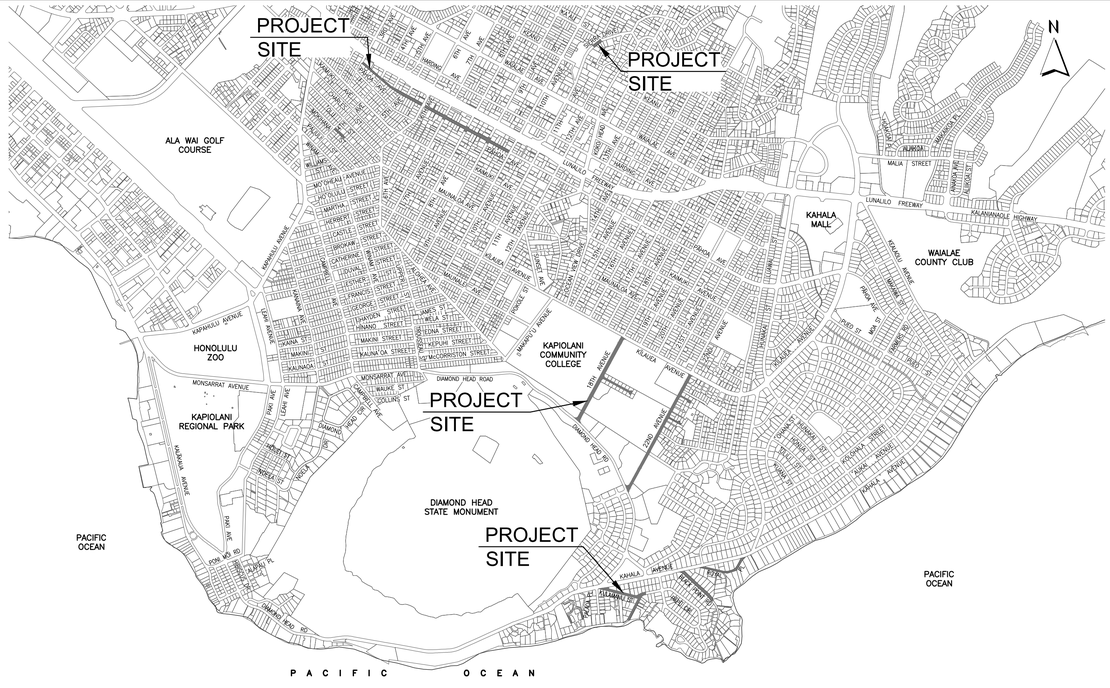
AustinTsutsumi & ASSOCIATES, INC.
Engineers & Surveyors

VICINITY MAP



ISLAND OF O'AHU

LOCATION MAP



APPROVED

DIRECTOR, DEPARTMENT OF DESIGN AND CONSTRUCTION — DATE
CITY AND COUNTY OF HONOLULU

CP Job No. 2025/CP-42

REHABILITATION OF LOCALIZED STREETS, PHASE 26A

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\01 TITLE SHEET.DWG
JOB NO. 0-15-058
051225

T001 SHEET 1 OF 104

FILE	POCKET	FOLDER	NO.

CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, AND THE COUNTIES OF KAUA'I, MAUI, AND HAWAI'I.

2. WHEN EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT, AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.

3. ANY PAVEMENT OUTSIDE THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL, OR BETTER, CONDITION. SUCH RESTORATION SHALL BE TO THE SATISFACTION OF THE OFFICER-IN-CHARGE, AT CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK. ALL WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCLUDED IN THE VARIOUS BID ITEMS.

5. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCLUDED IN THE VARIOUS CONTRACT ITEMS.

6. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM THEIR SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING 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 EXCAVATION FOR THE NEW LINES.

7. THE EXISTING IMPROVEMENTS ON THE PREMISES, AND IN ADJACENT AREAS, THAT ARE NOT TO BE REMOVED, SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPLACED AND REPAIRED TO ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND PAID FOR BY THE CONTRACTOR.

8. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.

9. THE CONTRACTOR, AT THEIR OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CITY AND COUNTY OF HONOLULU SHALL REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.

10. THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 18A OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION. THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

   A. STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND

   B. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

11. IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAI'I ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT http://health.hawaii.gov/cwb. THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

12. UNLESS RELOCATION IS CALLED FOR ON THE PLANS, EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE OFFICER-IN-CHARGE.

13. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.

GENERAL CONSTRUCTION NOTES (CONT.)

14. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, APPURTENANCES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE RECORDS, VERIFIED WHENEVER POSSIBLE BY FIELD SURVEYS. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION AND INVERTS OF ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND SHALL PROTECT SUCH UTILITIES AT ALL TIMES. DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. INJURY TO PERSONNEL RESULTING FROM CONTACT WITH THE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

15. ALL CONSTRUCTION WORK WITHIN THE ROADWAY SHALL BE DONE BETWEEN THE HOURS OF 8:30 AM TO 3:30 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION WORK MUST BE CLEAR FROM ROADWAY BY 3:30 PM.

16. EXISTING PAVEMENT AND PAVEMENT MARKINGS THAT ARE DAMAGED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SATISFACTION OF THE OFFICER-IN-CHARGE AND PAID FOR BY THE CONTRACTOR.

17. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND SERVICES TO PROPERLY PERFORM AND FULLY COMPLETE ALL WORK SHOWN ON CONTRACT, DRAWINGS AND SPECIFICATIONS.

18. ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS SHALL BE CHECKED AND VERIFIED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OFFICER-IN-CHARGE FOR CLARIFICATION.

19. IN THE EVENT THAT SUBSURFACE HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, STRUCTURAL REMAINS, CULTURAL DEPOSITS, ARTIFACTS, SAND DEPOSITS, OR SINK HOLES ARE IDENTIFIED DURING THE DEMOLITION AND/OR CONSTRUCTION WORK, CEASE IN THE IMMEDIATE VICINITY OF THE FIND, PROTECT THE FIND FROM ADDITIONAL DISTRUBANCE, AND CONTACT THE DEPARTMENT OF LAND AND NATURAL RESOURCES – STATE HISTORIC PRESERVATION DIVISION, AT 808692-8015.

    PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (692-8015). IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, DEPARTMENT ON PLANNING AND PERMITTING (768-8084); AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.

20. FOR NON-CITY PROJECTS THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEERING BRANCH, D.P.P. AT 768-8084 TO ARRANGE FOR INSPECTIONAL SERVICES AND SUBMIT TWO (2) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. FOR CITY PROJECTS, THE CONTRACTOR SHALL COORDINATE INSPECTIONAL SERVICES WITH THE RESPONSIBLE CITY AGENCY.

21. 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 AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAI'I 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 CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI – TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".

22. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS.

23. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES.

24. ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION, AND ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.

25. CONFINED SPACE:

    FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

    I. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE BUT NOT LIMITED TO, THE FOLLOWING:
       a. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
       b. LIFELINE AND ASSOCIATED CLIPS.
       c. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
       d. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
       e. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
       f. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
       g. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY).
       h. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.

    II. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.

    III. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

    IV. ALL SAFETY EQUIPMENT SHALL COMPLY WITH THE STANDARDS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL APPLICABLE FEDERAL, STATE, AND CITY LAWS AND REGULATIONS RELATING TO SAFETY.

GENERAL CONSTRUCTION NOTES (CONT.)

26. FOR PROJECTS ABUTTING STATE HIGHWAYS' RIGHT-OF-WAY, THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE SHALL NOTIFY THE STATE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, OAHU DISTRICT, DRAINAGE DISCHARGE UNIT AT 808-831-6793 FOR ASSESSMENT OF STATE HIGHWAYS PERMIT REQUIREMENTS.

27. THIS PROJECT WILL AFFECT BUS ROUTES, BUS STOPS, AND PARA-TRANSIT OPERATIONS, THEREFORE, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF TRANSPORTATION SERVICES, PUBLIC TRANSIT DIVISION AT 808-768-8396 AND OAHU TRANSIT SERVICES, INC. (BUS OPERATIONS: 808-848-4578 OR 808-848-6016 AND PARA-TRANSIT OPERATIONS: 808-454-5441 OR 808-454-5020) OF THE SCOPE OF WORK, LOCATION, PROPOSED CLOSURE OF ANY STREET, TRAFFIC LANE, SIDEWALK, OR BUS STOP AND DURATION OF PROJECT AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.

28. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND SHALL MEET THE LATEST REQUIREMENTS OF THE CITY DEPARTMENT OF TRANSPORTATION SERVICES (DTS). THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY DEPARTMENT OF PLANNING AND PERMITTING (DPP), TRAFFIC REVIEW BRANCH FOR REVIEW AND APPROVAL BEFORE APPLYING FOR A STREET USAGE PERMIT. THE TRAFFIC CONTROL PLAN SHALL MEET ALL DTS AND DPP REQUIREMENTS INCLUDING PREPARATION BY, OR UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.

ABBREVIATIONS

A.C.	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASPHALT CONCRETE PAVEMENT
AGG.	AGGREGATE
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AVE.	AVENUE
AZ	AZIMUTH
BC	BOTTOM CURB
℄	BASELINE
BVC	BEGIN VERTICL CURVE
BW	BOTTOM WALL
C	CHORD, CIVIL, CORING
CABX	CABLE BOX
CB	CATCH BASIN
CBMH	CATCH BASIN MANHOLE
C&C	CITY AND COUNTY
CG	CURB GRADE, CHANGE GRADE
CH	CHORD
CIR	CIRCLE
℄	CENTERLINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUE
CRM	CONCRETE RUBBLE MASONRY
D	DIAMETER, DRAIN
DBL	DOUBLE
DET.	DETAIL
DI	DRAIN INLET
DIST.	DISTANCE
D.L.	DRAIN LINE
DPP	DEPARTMENT OF PLANNING AND PERMITTING
DR.	DRIVE
DWY, D/W	DRIVEWAY
EBC	EXIST. BOTTOM CURB
EBX	ELECTRIC BOX
ELEV.	ELEVATION
EP	EDGE PAVEMENT
ENV	ENVIRONMENTAL
EQ	EQUAL
ETC	EXISTING TOP CURB
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST.	EXISTING
EXP.	EXPIRE
FH	FIRE HYDRANT
FND.	FOUND
GALV.	GALVANIZE
GP	GUY POLE
GW	GUY WIRE
H	HEIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ.	HORIZONTAL
HW	HEADWALL
INV.	INVERT
LC	LENGTH OF CURVE
LF	LINEAR FEET
LP	LOOP, LIGHT POLE
LT.	LEFT
MAX.	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MIL	MILLIMETER
MIN.	MINIMUM
NBC	NEW BOTTOM CURB
NO.	NUMBER
NTC	NEW TOP CURB
NTS	NOT TO SCALE
O.C.	ON CENTER
O/S	OFFSET
PAV'T.	PAVEMENT
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION OF VERTICAL CURVE
PL	PLACE
POC	POINT ON CURVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RD.	ROAD
REINF.	REINFORCED
REV	REVISION
R.O.W., R/W	RIGHT OF WAY
RPM	RAISED PAVEMENT MARKER
RT.	RIGHT
SDMH	STORM DRAIN MANHOLE
SDWLK, S/W	SIDEWALK
SHNR	SHINNER
SHT	SHEET
SL	STREET LIGHT
SMH	SEWER MANHOLE
ST.	STREET
STA	STATION
STD.	STANDARD
ST. MON.	STREET MONUMENT
T	TANGENT
TC	TOP CURB
TMK	TAX MAP KEY
TEBX	TELEPHONE BOX
TEMH	TELEPHONE MANHOLE
TSBX	TRAFFIC SIGNAL BOX
TSL	TRAFFIC SIGNAL LIGHT
TW	TOP WALL
TYP	TYPICAL
UP	UTILITY POLE
VERT.	VERTICAL
VC	VERTICAL CURVE
W/	WITH
WL	WATER LINE
WM	WATER METER
WMH	WATER MANHOLE
WV	WATER VALVE
XING	CROSSING

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REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CONSTRUCTION NOTES, ABBREVIATIONS, AND INDEX OF DRAWINGS

DESIGN	KH	APPROVED:	DRAWING NO. C001
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 2
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\02 CONSTRUCTION NOTES, ABBREVIATIONS AND INDEX OF DRAWINGS.DWG
JOB NO. 0-20-024
051325

CONSTRUCTION NOTES

HAWAIIAN ELECTRIC COMPANY NOTES

1. THE LOCATION OF HAWAIIAN ELECTRIC'S OVERHEAD AND UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE FROM EXISTING RECORDS WITH VARYING DEGREES OF ACCURACY AND ARE NOT GUARANTEED AS SHOWN. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATIONS OF THE FACILITIES AND SHALL EXERCISE PROPER CARE IN EXCAVATING AND WORKING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES AND UTILITY CROSSINGS ARE SHOWN, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS AND CROSSINGS TO VERIFY THE DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO HAWAIIAN ELECTRIC'S FACILITIES WHETHER SHOWN OR NOT SHOWN ON THE PLANS.

2. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF HAWAII'S OCCUPATIONAL SAFETY AND HEALTH LAWS AND REGULATIONS, INCLUDING WITHOUT LIMITATION, THOSE RELATED TO WORKING ON OR NEAR EXPOSED OR ENERGIZED ELECTRICAL LINES AND EQUIPMENT.

3. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION CLEARANCE FROM HAWAIIAN ELECTRIC'S PLANNING AND DESIGN SECTION OF THE TRANSMISSION & DISTRIBUTION ENGINEERING DEPARTMENT (808-543-5654) LOCATED AT 820 WARD AVENUE, 4TH FLOOR, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO STARTING CONSTRUCTION.

4. EXISTING HAWAIIAN ELECTRIC OVERHEAD AND UNDERGROUND LINES ARE ENERGIZED AND WILL REMAIN ENERGIZED DURING CONSTRUCTION UNLESS PRIOR SPECIAL ARRANGEMENTS HAVE BEEN MADE WITH HAWAIIAN ELECTRIC. ONLY HAWAIIAN ELECTRIC PERSONNEL ARE TO HANDLE THESE ENERGIZED LINES AND ERECT TEMPORARY GUARDS TO PROTECT THESE LINES FORM DAMAGE. THE CONTRACTOR SHALL WORK CAUTIOUSLY AT ALL TIMES TO AVOID ACCIDENTS AND DAMAGE TO EXISTING HAWAIIAN ELECTRIC FACILITIES, WHICH CAN RESULT IN ELECTROCUTION.

5. STATE LAW (OSHA) REQUIRES THAT A WORKER AND THE LONGEST OBJECT HE OR SHE MAY CONTACT CANNOT COME CLOSER THAN A SPECIFIED MINIMUM RADIAL CLEARANCE WHEN WORKING CLOSE TO OR UNDER ANY OVERHEAD LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE INFORMED OF AND COMPLY WITH THE LAW.

   AT ANY TIME SHOULD THE CONTRACTOR ANTICIPATE THAT HIS WORK WILL RESULT IN THE NEED TO ENCROACH WITHIN THE MINIMUM REQUIRED CLEARANCE AS STATED IN THE LAW, THE CONTRACTOR SHALL NOTIFY HAWAIIAN ELECTRIC AT LEAST THREE (3) MONTHS PRIOR TO THE PLANNED ENCROACHMENT SO THAT, IF FEASIBLE, THE NECESSARY PROTECTIONS (E.G. RELOCATE OR DE-ENERGIZE HAWAIIAN ELECTRIC LINES) CAN BE INVESTIGATED. HAWAIIAN ELECTRIC MAY ALSO BE ABLE TO BLANKET ITS DISTRIBUTION (12KV AND BELOW) LINES TO PROVIDE A VISUAL AID IN PREVENTING ACCIDENTAL CONTACT. HAWAIIAN ELECTRIC COST OF SAFEGUARDING OR IDENTIFYING ITS LINES WILL BE CHARGED TO THE CONTRACTOR.

   CONTACT HAWAIIAN ELECTRIC'S CUSTOMER RELATIONS AT 808-543-7070 FOR ASSISTANCE IN IDENTIFYING AND SAFEGUARDING OVERHEAD POWER LINES.

6. CONTRACTOR SHALL NOT EXCAVATE WITHIN 10 FEET FROM HAWAIIAN ELECTRIC'S UTILITY POLES OR ANY ANCHOR SYSTEM SUPPORTING THE UTILITY POLE. IF CONTRACTOR MUST EXCAVATE AN AREA MORE THAT 12 INCHES DEEP BY 12 INCHES WIDE, AND CLOSER THAN 10 FEET FROM A UTILITY POLE OR ITS ANCHOR SYSTEM, EXCEPT WHEN EXCAVATING FOR RISERS IN A SINGLE TRENCH NOT WIDER THAN 12 INCHES AND NOT DEEPER THAN 3 FEET, CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING, SUPPORTING, SECURING AND TAKING ALL PRECAUTIONS TO PREVENT DAMAGE TO OR LEANING OF EXISTING POLES. BEFORE COMMENCING SUCH EXCAVATION, CONTRACTOR MUST NOTIFY HAWAIIAN ELECTRIC WHICH MAY LEAD TO IMPLEMENTING POLE BRACING REQUIREMENTS. HAWAIIAN ELECTRIC REQUIRES A MINIMUM OF TEN (10) WORKING DAYS TO CONDUCT THE REVIEW OF CONTRACTOR'S SUBMITTAL. CONTRACTOR SHALL SUBMIT ITS BRACING CALCULATIONS AND DRAWINGS, PREPARED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER, TO HAWAIIAN ELECTRIC'S CUSTOMER RELATIONS (543-7070) FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF THE TEMPORARY POLE BRACING SYSTEM, AS WELL AS ALL COST INCURRED BY HAWAIIAN ELECTRIC TO REVIEW CONTRACTOR'S DRAWINGS AND TO REPAIR OR STRAIGHTEN POLES IMPACTED BY CONTRACTOR'S ACTIVITIES, INCLUDING RESPONSE AND RESTORATION COSTS INCURRED BY HAWAIIAN ELECTRIC ARISING OUT OF OR RELATED TO OUTAGES CAUSED BY CONTRACTOR'S FAILURE TO MEET THE FOREGOING REQUIREMENTS. HAWAIIAN ELECTRIC'S RECEIPT OF POLE BRACING CALCULATION OR DRAWING SUBMITTALS OF ANY CONTRACTOR, INCLUDING WORK PROCEDURE, SHALL NOT RELIEVE CONTRACTOR FROM ANY LIABILITY RESULTING FROM CONTRACTOR'S EXCAVATION NEAR OR AROUND HAWAIIAN ELECTRIC'S POLES.

   HAWAIIAN ELECTRIC MAY PROVIDE TO THE CUSTOMER INFORMATION RELATED TO POLE BRACING, INCLUDING CALCULATIONS AND OTHER BASIC ENGINEERING. HOWEVER, HAWAIIAN ELECTRIC PROVIDES THIS INFORMATION FOR INFORMATIONAL PURPOSED ONLY AND DOES NOT WARRANT ANY OF THE INFORMATION PROVIDED TO CUSTOMER. HAWAIIAN ELECTRIC HEREBY DISCLAIMS ANY LIABILITY ASSOCIATED WITH THE CUSTOMER'S USE OF INFORMATION PROVIDED TO THE CUSTOMER FROM HAWAIIAN ELECTRIC. IT IS THE CUSTOMER'S DUTY TO OBTAIN ENGINEERING FROM ITS OWN ENGINEER OR CONTRACTOR IN ORDER TO BRACE POLES AND THE USE OF HAWAIIAN ELECTRIC'S INFORMATION DOES NOT EXCUSE THE CUSTOMER FROM PERFORMING ITS OWN EVALUATION OF THE BRACING NEEDS. SHOULD THE CUSTOMER INSTALL BRACING AT ANY POLE LOCATION, CUSTOMER SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS HAWAIIAN ELECTRIC FROM ANY THIRD-PARTY CLAIMS ASSOCIATED WITH THE CUSTOMER'S BRACING OF A POLE. SHOULD THE WORK CUSTOMER PERFORM AT OR NEAR THE POLE LOCATION COMPROMISE THE POLE OR ITS SURROUNDING IN ANY WAY, CUSTOMER SHALL RESTORE OR REPLACE THE POLE SO THAT IT IS NO LONGER COMPROMISED.

HAWAIIAN ELECTRIC COMPANY NOTES (CONT.)

7. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF UNDERGROUND LINES. HAWAIIAN ELECTRIC'S EXISTING ELECTRICAL CABLES ARE ENERGIZED AND WILL REMAIN ENERGIZED DURING CONSTRUCTION. ONLY HAWAIIAN ELECTRIC PERSONNEL ARE TO BREAK INTO EXISTING HAWAIIAN ELECTRIC FACILITIES, HANDLE THESE CABLES, AND ERECT TEMPORARY GUARDS TO PROTECT THESE CABLES FROM DAMAGE. THE COST OF HAWAIIAN ELECTRIC'S ASSISTANCE IN PROVIDING PROPER SUPPORT AND PROTECTION OF ITS UNDERGROUND LINES WILL BE CHARGED TO THE CONTRACTOR. FOR ASSISTANCE/COORDINATION IN PROVIDING PROPER SUPPORT AND PROTECTION OF THESE LINES, THE CONTRACTOR SHALL CALL HAWAIIAN ELECTRIC'S CUSTOMER RELATIONS AT 808-543-7070 A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE.

   SPECIAL PRECAUTIONS ARE REQUIRED WHEN EXCAVATING NEAR HAWAIIAN ELECTRIC'S 138KV OR 46KV UNDERGROUND LINES (SEE HAWAIIAN ELECTRIC INSTRUCTIONS TO CONSULTANTS/CONTRACTORS ON "EXCAVATION NEAR HAWAIIAN ELECTRIC'S UNDERGROUND 138KV AND/OR 46KV LINES" FOR DETAILED REQUIREMENTS).

   FOR VERIFICATION OF UNDERGROUND LINES, THE CONTRACTOR SHALL CALL THE HAWAII ONE CALL CENTER AT 866-423-7287 MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

8. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF HAWAIIAN ELECTRIC'S UNDERGROUND FUEL OIL PIPELINES. SPECIAL PRECAUTIONS ARE REQUIRED WHEN EXCAVATING NEAR HAWAIIAN ELECTRIC'S UNDERGROUND FUEL OIL PIPELINES (SEE HAWAIIAN ELECTRIC'S SPECIFIC FUEL PIPELINE "GUIDELINES" TO CONSULTANTS/CONTRACTORS ON EXCAVATION NEAR HAWAIIAN ELECTRIC'S UNDERGROUND FUEL PIPELINES FOR DETAILED REQUIREMENTS).

9. WHEN TRENCH EXCAVATION IS ADJACENT TO OR BENEATH HAWAIIAN ELECTRIC'S EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR IS RESPONSIBLE FOR:

   a) ARRANGING FOR HAWAIIAN ELECTRIC STANDBY PERSONNEL TO OBSERVE WORK AT CONTRACTOR'S COST.
   b) SHEETING, BRACING, OR OTHERWISE SUPPORTING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE AND TO PREVENT POSSIBLE SLIDES, CAVE-INS, AND SETTLEMENTS.
   c) PROPERLY SUPPORTING EXISTING STRUCTURES OR FACILITIES WITH BEAMS, STRUTS, UNDER-PINNINGS, OR OTHER NECESSARY METHODS TO FULLY PROTECT IT FROM DAMAGE.
   d) BACKFILLING WITH PROPER BACKFILL MATERIAL INCLUDING SPECIAL THERMAL BACKFILL WHERE EXISTING (REFER TO ENGINEERING DEPARTMENT FOR THERMAL BACKFILL SPECIFICATIONS).

10. ANY WORK REQUIRED TO RELOCATE OR MODIFY HAWAIIAN ELECTRIC FACILITIES SHALL BE DONE BY HAWAIIAN ELECTRIC, OR BY THE CONTRACTOR UNDER HAWAIIAN ELECTRIC'S SUPERVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, AND SHALL PROVIDE NECESSARY SUPPORT FOR HAWAIIAN ELECTRIC'S WORK, WHICH MAY INCLUDE, BUT NOT BE LIMITED TO, STAKING OF POLE/ANCHOR LOCATIONS, IDENTIFYING RIGHT OF WAY AND PROPERTY LINES, EXCAVATION AND BACKFILL, PERMITS AND TRAFFIC CONTROL, BARRICADING, AND RESTORATION OF PAVEMENT, SIDEWALKS, AND OTHER FACILITIES.

    ALL COSTS ASSOCIATED WITH ANY RELOCATION OR MODIFICATION (EITHER TEMPORARY OR PERMANENT) FOR THE CONVENIENCE OF THE CONTRACTOR, OR TO ENABLE THE CONTRACTOR TO PERFORM HIS WORK IN A SAFE AND EXPEDITIOUS MANNER IN FULFILLING HIS CONTRACT OBLIGATIONS SHALL BE BORNE BY THE CONTRACTOR.

11. ANY REDESIGN OR RELOCATION OF HAWAIIAN ELECTRIC'S FACILITIES NOT SHOWN ON THE PLANS MAY BE CAUSE FOR LENGTHY DELAYS. THE CONTRACTOR ACKNOWLEDGES THAT HAWAIIAN ELECTRIC IS NOT RESPONSIBLE FOR ANY DELAY OR DAMAGE THAT MAY ARISE AS A RESULT OF ANY CONFLICTS DISCOVERED OR IDENTIFIED WITH RESPECT TO THE LOCATION OR CONSTRUCTION OF HAWAIIAN ELECTRIC'S ELECTRICAL FACILITIES IN THE FIELD, REGARDLESS OF WHETHER THE CONTRACTOR HAS MET THE REQUESTED MINIMUM ADVANCE NOTICES. IN ORDER TO MINIMIZE ANY DELAY OR IMPACT ARISING FROM SUCH CONFLICTS, HAWAIIAN ELECTRIC SHOULD BE NOTIFIED IMMEDIATELY UPON DISCOVERY OR IDENTIFICATION OF SUCH CONFLICT.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL HAWAIIAN ELECTRIC SURFACE AND SUBSURFACE UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO HAWAIIAN ELECTRIC'S FACILITIES AS A RESULT OF HIS OPERATIONS. THE CONTRACTOR SHALL IMMEDIATELY REPORT SUCH DAMAGES OR ANY HAZARDOUS CONDITIONS RELATED TO HAWAIIAN ELECTRIC'S LINES TO HAWAIIAN ELECTRIC'S TROUBLE DISPATCHER AT 808-548-7961. REPAIR WORK SHALL BE DONE BY HAWAIIAN ELECTRIC OR BY THE CONTRACTOR UNDER HAWAIIAN ELECTRIC'S SUPERVISION. COSTS FOR DAMAGES TO HAWAIIAN ELECTRIC'S FACILITIES SHALL BE BORNE BY THE CONTRACTOR.

    IN CASE OF DAMAGE OR SUSPECTED DAMAGE TO HAWAIIAN ELECTRIC'S FUEL PIPELINE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY HAWAIIAN ELECTRIC'S SECURITY COMMAND CENTER AT 808-543-7685 (A 24-HOUR NUMBER) SO HAWAIIAN ELECTRIC PERSONNEL CAN SECURE THE DAMAGED SECTION AND REPORT ANY OIL SPILLS TO THE PROPER AUTHORITIES. ALL COSTS ASSOCIATED WITH THE DAMAGE, REPAIR, AND OIL SPILL CLEANUP SHALL BE BORNE BY THE CONTRACTOR.

HAWAIIAN ELECTRIC COMPANY NOTES (CONT.)

13. THE CONTRACTOR MAY REQUEST HAWAIIAN ELECTRIC TO PROVIDE AN INSPECTOR TO STAND-BY DURING CONSTRUCTION NEAR HAWAIIAN ELECTRIC'S FACILITIES. THE COST OF SUCH INSPECTION WILL BE CHARGED TO THE CONTRACTOR.

    THE CONTRACTOR SHALL CALL HAWAIIAN ELECTRIC'S CUSTOMER RELATIONS AT 808-543-7070 A MINIMUM OF THREE (3) MONTHS IN ADVANCE TO ARRANGE FOR HAWAIIAN ELECTRIC STAND-BY PERSONNEL.

14. THE FOLLOWING CLEARANCES SHALL BE MAINTAINED BETWEEN HAWAIIAN ELECTRIC'S DUCTLINE AND ALL ADJACENT STRUCTURES (CHARTED AND UNCHARTED) IN THE TRENCH:

GUIDELINES FOR MINIMUM HORIZONTAL (PARALLEL) CLEARANCES BETWEEN HAWAIIAN ELECTRIC AND OTHER UNDERGROUND UTILITIES

UNDERGROUND UTILITIES	HAWAIIAN ELECTRIC DIRECT BURIED CABLE	HAWAIIAN ELECTRIC DIRECT BURIED IN CONDUIT (NO CONCRETE ENCASEMENT)	HAWAIIAN ELECTRIC 3" (MINIMUM) CONCRETE ENCASED	APPLICABLE NOTES:
HAWAIIAN ELECTRIC DB CONDUITS	12"	3"	0"	
HAWAIIAN ELECTRIC 3" ENCASEMENT	0"	0"	0"	
TELEPHONE/CATV DB	12"	12"	6"	
TELEPHONE/CATV DB DUCTS	12"	12"	6"	
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	0"	5
TRAFFIC SIGNAL	12"	12"	12"	
WATER DB (BWS OWNED)	36"	36"	36"	1, 4
CUSTOMER OWNED WATER SERVICE LATERALS	12"	12"	12"	
WATER (CONCRETE JACKETED) (BWS OWNED)	36"	36"	36"	1, 4
GAS DB	12"	12"	12"	1
GAS (CONCRETE JACKETED)	12"	12"	12"	1
SEWER DB	36"	36"	36"	1, 2
SEWER (CONCRETE JACKETED)	36"	36"	36"	1, 2
DRAIN	12"	12"	12"	1
FUEL PIPELINES				3

NOTES:

1. WHERE SPACE IS AVAILABLE, PARALLEL CLEARANCE TO OTHER UTILITIES, OR FOREIGN STRUCTURES OTHER THAN COMMUNICATION OR TRAFFIC SIGNAL SHALL BE 36".
2. IF 36" CLEARANCE CANNOT BE MET:
   - IF CLEARANCE IS LESS THAN 12", JACKET SEWER LINE WITH REINFORCED CONCRETE (PER HAWAIIAN ELECTRIC'S STD. 30-1030) FOR A DISTANCE OF 5' PLUS PIPE DIAMETER.
   - IF CLEARANCE IS BETWEEN 12" AND 36", JACKET SEWER LINE WITH PLAIN CONCRETE.
3. ALL FUEL PIPELINE CROSSINGS SHALL BE REVIEWED AND APPROVED BY THE COMPANY THAT OWNS AND MAINTAINS IT.
4. 5 FEET CLEAR TO WATER MAINS 16" AND LARGER.
5. FOR SITUATIONS WITH 0" MINIMUM SEPARATION, A 6" SEPARATION IS RECOMMENDED.
6. CLEARANCES MEASURED FROM OUTER EDGES OR DIAMETERS OF UTILITIES. WHENEVER CONCRETE JACKETS ARE INVOLVED, CLEARANCE SHALL BE TOTAL CLEAR DISTANCE BETWEEN THE CONCRETE JACKET AND UTILITY CONCERNED.

STATE HISTORIC PRESERVATION DIVISION NOTE

1. IN THE EVENT THAT SUBSURFACE HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, STRUCTURAL REMAINS, CULTURAL DEPOSITS, ARTIFACTS, SAND DEPOSITS, OR SINK HOLES ARE IDENTIFIED DURING THE DEMOLITION AND/OR CONSTRUCTION WORK, CEASE WORK IN THE IMMEDIATE VICINITY OF THE FIND, PROTECT THE FIND FROM ADDITIONAL DISTURBANCE, AND CONTACT THE STATE HISTORIC PRESERVATION DIVISION, AT 808-692-8015. SEE GENERAL CONSTRUCTION NOTE FOR ADDITIONAL AGENCIES TO NOTIFY IF ARTIFACTS AND/OR HUMAN SKELETAL REMAINS ARE UNCOVERED.

HAWAIIAN ELECTRIC COMPANY NOTES (CONT.)

GUIDELINES FOR MINIMUM VERTICAL (CROSSING) CLEARANCES BETWEEN HAWAIIAN ELECTRIC AND OTHER UNDERGROUND UTILITIES

UNDERGROUND UTILITIES	HAWAIIAN ELECTRIC DIRECT BURIED CABLE	HAWAIIAN ELECTRIC DIRECT BURIED IN CONDUIT (NO CONCRETE ENCASEMENT)	HAWAIIAN ELECTRIC 3" (MINIMUM) CONCRETE ENCASED	APPLICABLE NOTES:
HAWAIIAN ELECTRIC DB CONDUITS	6"	3"	0"	
HAWAIIAN ELECTRIC 3" ENCASEMENT	0"	0"	0"	
TELEPHONE/CATV DB	12"	12"	6"	
TELEPHONE/CATV DB DUCTS	12"	12"	6"	
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	0"	3
TRAFFIC SIGNAL	12"	12"	6"	
WATER DB (BWS OWNED)	12"	12"	12"	5
CUSTOMER OWNED WATER SERVICE LATERALS	6"	6"	6"	
WATER (CONCRETE JACKETED) (BWS OWNED)	12"	12"	12"	5
GAS DB	12"	12"	12"	
GAS (CONCRETE JACKETED)	12"	12"	12"	
SEWER DB	24"	24"	24"	1
SEWER (CONCRETE JACKETED)	24"	24"	24"	1
DRAIN	12"	12"	6"	
FUEL PIPELINES				2

NOTES:

1. IF CLEARANCE CANNOT BE MET:
   - IF CLEARANCE IS LESS THAN 12", JACKET SEWER LINE WITH REINFORCED CONCRETE (PER HAWAIIAN ELECTRIC'S STD. 30-1030) FOR A DISTANCE OF 5' PLUS PIPE DIAMETER.
   - IF CLEARANCE IS BETWEEN 12" AND 24", JACKET SEWER LINE WITH PLAIN CONCRETE.
2. ALL FUEL PIPELINE CROSSINGS SHALL BE REVIEWED AND APPROVED BY THE COMPANY THAT OWNS AND MAINTAINS IT.
3. FOR SITUATIONS WITH 0" MINIMUM SEPARATION, A 6" SEPARATION IS RECOMMENDED.
4. CLEARANCES MEASURED FROM OUTER EDGES OR DIAMETERS OF UTILITIES. WHENEVER CONCRETE JACKETS ARE INVOLVED, CLEARANCE SHALL BE TOTAL CLEAR DISTANCE BETWEEN THE CONCRETE JACKET AND UTILITY CONCERNED.
5. 36" CLEARANCE IS REQUIRED FOR TRENCHLESS INSTALLATION WORK.

THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER & HAWAIIAN ELECTRIC OF ANY HEAT SOURCES (POWER CABLE DUCT BANK, STEAMLINE, ETC.) ENCOUNTERED THAT ARE NOT PROPERLY IDENTIFIED ON THE DRAWING.

13. THE CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS HAWAIIAN ELECTRIC FROM AND AGAINST ALL LOSSES, DAMAGES, CLAIMS, AND ACTIONS, INCLUDING BUT NOT LIMITED TO REASONABLE ATTORNEY'S FEES AND COSTS BASED UPON OR ARISING OUT OF DAMAGE TO PROPERTY OR INJURIES TO PERSONS, OR OTHER TORTIOUS ACTS CAUSED OR CONTRIBUTED TO BY CONTRACTOR OR ANYONE ACTING UNDER ITS DIRECTION OR CONTROL OR ON ITS BEHALF; PROVIDED CONTRACTOR'S INDEMNITY SHALL NOT BE APPLICABLE TO ANY LIABILITY BASED UPON THE SOLE NEGLIGENCE OF HAWAIIAN ELECTRIC.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO — LICENSED PROFESSIONAL ENGINEER — No. 6998-C — HAWAII, U.S.A.

EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC. — ENGINEERING SURVEYORS — HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CONSTRUCTION NOTES - 2

DESIGN	KH	APPROVED:	DRAWING NO. C002
DRAWN	MV		SHEET NO. 3
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\03 CONSTRUCTION NOTES - 2.DWG
JOB NO. 0-20-024
040125

CONSTRUCTION NOTES

HAWAIIAN TELCOM GENERAL CONSTRUCTION/DESIGN NOTES:

1. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES AND PERMITS AND SHALL GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

2. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT AND TONING REQUEST FROM HAWAIIAN TELCOM'S EXCAVATION PERMIT SECTION, LOCATED AT 1177 BISHOP STREET, TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. HOURS OF BUSINESS ARE 8:00 A.M. TO 11:00 A.M. AND 12:00 P.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS.

3. PRIOR TO THE EXCAVATION OF THE DUCTLINE, THE CONTRACTOR SHALL REQUEST HAWAIIAN TELCOM TO LOCATE EXISTING DUCTLINE WHEREVER REQUIRED. FOR UNDERGROUND CABLE LOCATING AND MARKING, FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED. THREE (3) WORKING DAYS ADVANCE NOTICE IS REQUIRED FOR ANY INSPECTION BY A DESIGNATED REPRESENTATIVE.

4. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION AND SHALL MAINTAIN PROPER CLEARANCES. WHENEVER CON-STRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF HAWAIIAN TELCOM FACILITIES. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND SHALL BE LIABLE FOR ANY DAMAGES TO HAWAIIAN TELCOM FACILITIES. ANY DAMAGES SHALL BE REPORTED IMMEDIATELY TO HAWAIIAN TELCOM'S REPAIR SECTION AT #611 (24 HOURS) OR TO THE EXCAVATION PERMIT SECTION AT 808-546-7746 (NORMAL WORKING HOURS, MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS). AS A RESULT OF HIS OPERATIONS, ADJUSTMENTS TO THE NEW DUCTLINE ALIGNMENT, IF REQUIRED, SHALL BE MADE TO PROVIDE THE REQUIRED CLEARANCES.

5. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTION NOT TO DAMAGE EXISTING CABLES OR DUCTS. A HAWAIIAN TELCOM INSPECTOR OR DESIGNATED REPRESENTATIVE IS REQUIRED TO BE AT ANY JOB SITE WHENEVER THERE WILL BE A BREAKAGE INTO OR ENTRY INTO ANY STRUCTURE THAT CONTAIN HAWAIIAN TELCOM FACILITIES. TEMPORARY CABLE AND DUCT SUPPORTS SHALL BE PROVIDED WHEREVER NECESSARY.

6. THE CONTRACTOR SHALL NOTIFY HAWAIIAN TELCOM'S INSPECTOR OR DESIGNATED REPRE-SENTATIVE A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, BRACING, OR BACKFILLING OF HAWAIIAN TELCOM'S STRUCTURE OR FACILITIES.

7. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE "HAWAIIAN TELCOM STANDARD SPECIFICATIONS FOR PLACING TELEPHONE SYSTEM" DATED JANUARY 2007, ALL SUBSEQUENT AMENDMENTS AND ADDITIONS, AND ALL OTHER PERTINENT STANDARDS FOR TELEPHONE CONSTRUCTION. THE CONTRACTOR SHALL FAMILIARIZE HIS PERSONNEL BY OBTAINING APPLICABLE SPECIFICATION.

8. WHEN EXCAVATION IS ADJACENT TO OR BENEATH HAWAIIAN TELCOM'S EXISTING STRUCTURE OR FACILITIES, THE CONTRACTOR SHALL:

   A) SHEET AND/OR BRACE THE EXCAVATION TO PREVENT SLIDES, CAVE-INS, OR SETTLE-MENTS TO ENSURE NO MOVEMENT TO HAWAIIAN TELCOM'S STRUCTURES OR FACILITIES.

   B) PROTECT EXISTING STRUCTURES AND/OR FACILITIES WITH BEAMS, STRUTS, OR UNDER-PINNING WHILE EXCAVATING BENEATH THEM TO ENSURE NO MOVEMENT TO HAWAIIAN TELCOM'S STRUCTURES OR FACILITIES.

9. THE CONTRACTOR SHALL BRACE ALL POLES OR LIGHT STANDARDS NEAR THE NEW DUCTLINE, MANHOLE, OR HANDHOLE DURING HIS OPERATIONS.

10. THE CONTRACTOR SHALL SAW-CUT A.C. PAVEMENT AND CONCRETE GUTTER WHEREVER NEW MANHOLES, HANDHOLES, OR DUCTLINES ARE TO BE PLACED AND SHALL RESTORE TO EXISTING CONDITION OR BETTER.

11. THE CONTRACTOR SHALL COMPLY WITH THE POLICY ADOPTED BY THE DEPARTMENT OF PLANNING AND PERMITTING, CITY AND COUNTY OF HONOLULU, CONCERNING THE REPLACEMENT OF CONCRETE SIDEWALKS AFTER EXCAVATION WORK.

12. THE UNDERGROUND PIPES, CABLES, OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING 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 EXCAVATION FOR THE NEW LINES.

13. WHEREVER CONNECTIONS TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES PRIOR TO EXCAVATION OF THE MAIN TRENCHES TO VERIFY THEIR LOCATIONS AND DEPTHS.

14. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE COST FOR SUPPLEMENTARY MEASURES, WHICH WILL BE REQUIRED BY THE CITY AND COUNTY, SHALL BE BORNE BY THE CONTRACTOR.

15. THE CONTRACTOR SHALL PUMP ALL MANHOLES DRY DURING FINAL INSPECTION.

16. THE CONTRACTOR SHALL NOTIFY HAWAIIAN TELCOM INSPECTOR 24 HOURS PRIOR TO THE POURING OF CONCRETE OR BACKFILLING.

17. WHEN CONNECTING TO MANHOLE WALLS, ALL EXISTING REINFORCING BARS SHALL BE LEFT INTACT. DUCTS SHALL BE ADJUSTED IN THE FIELD IN ORDER TO CLEAR REINFORCING.

HAWAIIAN TELCOM GENERAL CONSTRUCTION/DESIGN NOTES (CONT.)

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT ALL REQUIRED LINES AND GRADES AND SHALL PRESERVE ALL BENCH MARKS AND WORKING POINTS NECESSARY TO LAY OUT THE WORK CORRECTLY. THE NEW DUCTLINE SHALL BE ADJUSTED BY THE CONTRACTOR TO SUIT THE EXISTING CONDITIONS AND THE DETAILS AS DESCRIBED IN THE PLANS.

19. MINIMUM CONCRETE STRENGTH SHALL BE:

    FOR DUCTLINE 2500 PSI AT 28 DAYS
    FOR MANHOLE 3000 PSI AT 28 DAYS OR AS SPECIFIED IN DESIGN NOTES

20. BENDS IN THE DUCT ALIGNMENT, DUE TO CHANGES IN GRADE SHALL HAVE A MINIMUM RADIUS OF 25 FEET. ALL 90 DEGREE C-BENDS AT A POLE OR AT THE BUILDING FLOOR SLAB PENETRATION, SHALL HAVE A BEND RADIUS OF TEN TIMES THE DIAMETER OF THE DUCT OR GREATER.

21. AFTER DUCTLINE HAS BEEN COMPLETED, A MANDREL WITH A SQUARE FRONT NOT LESS THAN 12" LONG AND HAVING A DIAMETER OF 1/4" LESS THAN THE INSIDE DIAMETER OF THE DUCT, SHALL BE PULLED THROUGH EACH DUCT AFTER WHICH A BRUSH WITH STIFF BRISTLES SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF EARTH, SAND, OR GRAVEL HAVE BEEN LEFT INSIDE. DUCTS SHALL BE COMPLETELY DRY AND CLEAN.

22. ALL DUCTS AND CONDUITS SHALL HAVE AN 1800# POLYESTER MULE-TAPE (NEPTCO, WP1800P, HAWAIIAN TELCOM MATERIAL CODE NO. 571154) INSTALLED THROUGHOUT ITS ENTIRE LENGTH. ALL DUCTS SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATERIAL DURING CONSTRUCTION AND AT THE COMPLETION OF INSTALLATION.

CONSTRUCTION NOTES FOR HAWAI'I GAS FACILITIES:

1. HAWAI'I GAS PIPELINES IN THE PROJECT AREA ARE PLASTIC COATED AND CATHODICALLY PROTECTED. THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WHEN WORKING NEAR THESE GAS PIPELINES.

2. WRITTEN CLEARANCES MUST BE OBTAINED FROM HAWAI'I GAS, MAPS AND RECORDS DEPARTMENT, 515 KAMAKEE STREET, AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING EXCAVATION NEAR THESE GAS PIPELINES.

3. SINCE GAS LINE LOCATIONS ON FIELD MAPS ARE APPROXIMATE, THE CONTRACTOR, AFTER OBTAINING WRITTEN CLEARANCE, SHALL CALL HAWAII ONE CALL CENTER A MINIMUM OF FIVE (5) WORKING DAYS BEFORE STARTING EXCAVATION TO ARRANGE FOR FIELD LOCATION OF THE EXISTING GAS PIPELINES. THE TELEPHONE NUMBER IS 811 OR 1-866-423-7287.

4. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL AROUND GAS PIPELINES IN THE PRESENCE OF A REPRESENTATIVE OF HAWAI'I GAS. ALL BACKFILL WITHIN SIX INCHES OF ANY GAS PIPELINE SHALL BE SELECT CUSHION MATERIAL APPROVED BY HAWAI'I GAS.

5. FOR RELOCATION OF ANY GAS PIPELINE, THE CONTRACTOR SHALL NOTIFY HAWAI'I GAS FIVE (5) WORKING DAYS BEFORE STARTING WORK. THE TELEPHONE NUMBER IS 808-594-5574. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EXCAVATION AND BACKFILL, OBTAIN TRAFFIC PERMITS, AND RESTORE PAVEMENT, SIDEWALKS, AND OTHER FACILITIES. ANY RELOCATION OF GAS FACILITIES SHALL BE DONE BY HAWAI'I GAS AND PAID FOR BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL NOTIFY HAWAI'I GAS IMMEDIATELY AFTER ANY DAMAGE HAS BEEN CAUSED TO EXISTING GAS PIPELINES, COATINGS, OR ITS CATHODIC PROTECTION DEVICES. THE TELEPHONE NUMBER IS 808-535-5933, 24 HOURS A DAY. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO THE HAWAI'I GAS FACILITIES. REPAIR WORK ON SUCH DAMAGE SHALL BE DONE BY HAWAI'I GAS WITH PAYMENT FOR THIS WORK TO BE DONE BY THE CONTRACTOR.

7. MINIMUM VERTICAL AND HORIZONTAL CLEARANCE BETWEEN THE GAS PIPELINES AND OTHER PIPELINES, CONDUITS, DUCTLINES, OR OTHER FACILITIES SHALL BE 12 INCHES. ADEQUATE SUPPORT AND PROTECTION FOR GAS PIPELINES EXPOSED IN THE TRENCH SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY HAWAI'I GAS.

8. THE CONTRACTOR SHALL WORK IN AN EXPEDITIOUS MANNER IN ORDER TO KEEP THE UNCOVERED GAS PIPELINES EXPOSED FOR AS SHORT A PERIOD OF TIME AS POSSIBLE.

TRAFFIC NOTES FOR WORK ON CITY AND COUNTY STREETS

1. A PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION SERVICES BEFORE WORK ON ANY PORTION OF A PUBLIC STREET OR HIGHWAY MAY BEGIN. CONSTRUCTION TRAFFIC CONTROL PLANS APPROVED BY THE DEPARTMENT OF TRANSPORTATION SERVICES AND/OR THE DEPARTMENT OF PLANNING AND PERMITTING MUST BE PROVIDED WHEN APPLYING FOR THE PERMIT.

2. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS AND OTHER PROTECTIVE FACILITIES, WHICH SHALL CONFORM WITH THE "HAWAI'I ADMINISTRATION RULES 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 CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI – TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".

3. WORK ON ANY CITY STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 A.M. TO 3:30 P.M., MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.

4. DURING WORKING HOURS, THE CONTRACTOR SHALL PROVIDE FOR THROUGH TRAFFIC. DURING NON-WORKING HOURS, ALL TRENCHES SHALL BE COVERED WITH A SAFE NON-SKID BRIDGING MATERIAL AND ALL LANES SHALL BE OPEN TO TRAFFIC.

5. AS REQUIRED BY THE DEPARTMENT OF TRANSPORTATION SERVICES, THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO CONTROL THE FLOW OF TRAFFIC.

6. WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.

7. DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THESE RIGHTS-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY.

8. THE CONTRACTOR SHALL REFERENCE TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION SERVICES AND THE DEPARTMENT OF PLANNING AND PERMITTING, ALL EXISTING TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGN, POSTS AND PAVEMENT MARKINGS DISTURBED BY THEIR ACTIVITIES.

9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PLANNING AND PERMITTING AT 808-768-8084 ONE (1) WEEK PRIOR TO ANY WORK TO BE DONE ON SIGNS, POST AND PAVEMENT MARKINGS.

10. NO EQUIPMENT SHALL BE STORED WITHIN STREET RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.

11. THE DEPARTMENT OF DESIGN AND CONSTRUCTION SHALL ENSURE THAT THE CONTRACTOR INSTALLS THE CONSTRUCTION TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MUTCD AND THE HAWAII ADMINISTRATION RULES AS SPECIFIED IN THE TRAFFIC NOTE #2.

12. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND SHALL MEET THE LATEST REQUIREMENTS OF THE CITY DEPARTMENT OF TRANSPORTATION SERVICES (DTS). THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY DEPARTMENT OF PLANNING AND PERMITTING (DPP), TRAFFIC REVIEW BRANCH FOR REVIEW AND APPROVAL BEFORE APPLYING FOR A STREET USAGE PERMIT. THE TRAFFIC CONTROL PLAN SHALL MEET ALL DTS AND DPP REQUIREMENTS INCLUDING PREPARATION BY, OR UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.

TRAFFIC SIGNAL & TECHNOLOGY DIVISION NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL & TECHNOLOGY DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE TRAFFIC SIGNAL SYSTEM (PHONE: 808-768-8387).

2. THE TRAFFIC SIGNAL SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE APPROVED BY THE TRAFFIC SIGNAL & TECHNOLOGY DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, AND PAID FOR BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING TRAFFIC SIGNAL FACILITIES, INCLUDING BUT NOT LIMITED TO THE TRAFFIC SIGNAL FIBER OPTIC CABLE SYSTEM, AND INTERCONNECT SYSTEM. ANY AND ALL DAMAGES TO THE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRAFFIC SIGNALS AND TECHNOLOGY DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES.

MECHANICAL/ELECTRICAL DIVISION NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE JOINT POLE COMMITTEE TWO (2) WEEKS IN ADVANCE OF ANY RELOCATION OF UTILITY POLE(S) THAT MAY BE NECESSARY.

2. THE CONTRACTOR SHALL NOTIFY THE MECHANICAL/ELECTRICAL DIVISION DEPARTMENT OF DESIGN AND CONSTRUCTION, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE STREET LIGHTING SYSTEM (PHONE: 808-768-8431).

3. THE STREET LIGHTING SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE APPROVED BY THE MECHANICAL/ELECTRICAL DIVISION, DEPARTMENT OF DESIGN AND CONSTRUCTION, AND PAID FOR BY THE CONTRACTOR.

4. THE LOCATIONS OF THE EXISTING UNDERGROUND STREET LIGHTING FACILITIES SHOWN ON THE PLANS ARE FROM EXISTING PLANS AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY TO THE EXISTING STREET LIGHT FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING STREET LIGHTING FACILITIES. ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE CITY'S EXISTING COMMUNICATIONS FIBER OPTIC CABLE SYSTEM. ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT CONTRACTOR'S COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.

PUBLIC HEALTH, SAFETY AND CONVENIENCE

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.

2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CITY AND COUNTY OF HONOLULU SHALL REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.

CATV NOTES:

1. PRIOR TO THE START OF ROADWAY EXCAVATION, THE CONTRACTOR SHALL REQUEST THAT SPECTRUM, INC. LOCATE EXISTING DUCTLINE WHEREVER REQUIRED.

2. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTION NOT TO DAMAGE EXISTING CABLES OR DUCTS. ANY WORK INVOLVING EXISTING CABLES OR DUCTS SHALL BE DONE IN THE PRESENCE OF THE SPECTRUM, INC. INSPECTOR OR HIS REPRESENTATIVE. TEMPORARY CABLE AND DUCT SUPPORTS SHALL BE PROVIDED WHEREVER NECESSARY.

HONOLULU FIRE DEPARTMENT NOTE:

1. THE CONTRACTOR SHALL NOTIFY THE HONOLULU FIRE DEPARTMENT (HFD) Sean Chun at schun2@honolulu.gov TWO WEEKS PRIOR TO CONSTRUCTION, PROVIDING HIM WITH THE LOCATION, STREET NAMES, SCOPE OF WORK, DATE, TIME, PROPOSED CLOSURE OF ANY STREET OR TRAFFIC LANES, PERMIT AND IF POLICE OFFICER(S) WILL BE ON SITE TO CONTROL TRAFFIC FOR CLOSURE ANY STREET OR TRAFFIC LANES.

ADJUSTMENT TO EXISTING UTILITIES NOTE:

1. ADJUST ALL UTILITY VALVE BOX FRAMES & COVERS, WATER METER BOXES, MANHOLE FRAMES & COVERS, STREET MONUMENT COVERS, ETC., TO NEW FINISH GRADE. COORDINATE WITH PRIVATE COMPANIES AND CITY AGENCIES FOR WORK ON EACH RESPECTIVE UTILITY.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC. ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CONSTRUCTION NOTES - 3

DESIGN	KH	APPROVED:	DRAWING NO. C003
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 4
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIK#\DWG\04 CONSTRUCTION NOTES - 3.DWG
JOB NO. 0-20-024
040125

CONSTRUCTION NOTES

SEWER NOTES (FOR CD ROADS PROJECT):

1. WHERE APPLICABLE, ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATIONS, SEPTEMBER 1986, THE WASTEWATER SYSTEM STANDARD DETAILS OF THE CITY AND COUNTY OF HONOLULU, DATED JULY 2017, CURRENT CITY PRACTICES AND REVISED ORDINANCES OF HONOLULU, 1990, AS AMENDED, AND THE WASTEWATER SYSTEM DESIGN STANDARDS VOLUME 1, DATED JULY 2017.

2. THE SEWER SYSTEM, INCLUDING ALL LATERAL CONNECTIONS AND SERVICES, SHALL BE OPERATIONAL AT ALL TIMES. NO SERVICE INTERRUPTION IS PERMITTED. WHEN WORK ON EXISTING SEWER IS REQUIRED, THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO REDIRECT SEWAGE AROUND THE SEWER AND MANHOLES. BYPASSING PLANS AND SCHEDULES SHALL BE APPROVED BY THE OFFICER-IN-CHARGE PRIOR TO IMPLEMENTATION. BYPASS REQUESTS SHALL BE SUBMITTED TO THE OFFICER-IN-CHARGE FOR REVIEW THIRTY (30) DAYS PRIOR TO THE START OF THE BYPASS WORK.

3. CONTRACTOR SHALL MAINTAIN VISIBILITY AND MAINTENANCE ACCESS TO LIVE SEWER MANHOLE LOCATIONS AT ALL TIMES, INCLUDING DURING NON-WORK HOURS AND PAVING OPERATIONS.

4. THE CONTRACTOR SHALL REPORT TO THE OFFICER-IN-CHARGE ANY ACCIDENTAL SPILLS OR BYPASSES RESULTING FROM HIS WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.

6. FOR SEWER MANHOLE ADJUSTMENTS UPWARD LESS THAN 3", SEE STD. DETAIL S-28. FOR SMH ADJUSTMENTS UPWARD GREATER THAN 3" OR FOR ANY ADJUSTMENTS DOWNWARD, RECONSTRUCT SMH TOP FROM BELOW THE CONE SECTION.

7. SEE "ADJUSTMENT TO EXISTING UTILITIES NOTE", SHEET NO. 4.

8. IF CONTRACTOR ENCOUNTERS FLOW MONITORING DEVICES, SUCH AS SPECIAL SEWER MANHOLE COVERS EMBEDDED WITH SOLAR PANELS, CONTACT COLLECTION SYSTEMS MAINTENANCE (CSM), ENV AT 808-768-7272 TO COORDINATE TEMPORARY REMOVAL.

9. THE EXISTING UTILITIES, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, NONE EXIST. WHEN EXCAVATION IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING ALL POSSIBLE MEANS TO ASCERTAIN THE EXACT LOCATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, INCLUDING, BUT NOT LIMITED TO, INDEPENDENTLY CHECKING THE SITE, AND CONTACTING THE VARIOUS GOVERNMENTAL AGENCIES AND UTILITY COMPANIES TO ARRANGE FOR RESEARCH OF THEIR RECORDS AND FOR TONING OF THEIR UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OFFICER-IN-CHARGE IF THE LOCATIONS OF EXISTING UTILITIES DIFFER MATERIALLY FROM THAT SHOWN ON THE PLANS.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR TONING FOR BURIED FRAMES AND COVERS PRIOR TO COLD MILLING OF ROADWAY.

11. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGEMENT BRANCH, WASTEWATER ENGINEERING AND CONSTRUCTION DIVISION, ENV, AT 768-8785, 768-8769, OR 768-8755 TO ARRANGE FOR INSPECTION SERVICES. SUBMIT THREE (3) SETS OF APPROVED CONSTRUCTION PLANS TO WASTEWATER BRANCH, DPP AND EMAIL A PDF TO DPPWASTEWATERBRANCH@HONOLULU.GOV SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF SEWER WORK. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION COSTS.

12. FOR SEWER MANHOLES WITH EXISTING CORROSION PROTECTIVE SURFACE, REMOVE PROTECTIVE LINER OR COATING MATERIAL IN AREAS OF SEWER MANHOLE NECESSARY TO PERFORM FRAME/COVER OR MANHOLE RECONSTRUCTION WORK AND REMOVE IN ACCORDANCE WITH SEWER NOTE 13.

13. CONTRACTOR SHALL USE MANHOLE DEBRIS CATCHING DEVICES, MECHANICAL PLUG, OR ALTERNATE ACCEPTABLE MEANS WHEN PERFORMING MANHOLE HEIGHT ADJUSTMENT WORK AND TO PREVENT ANY CONSTRUCTION DEBRIS FROM FALLING INTO THE MANHOLE DURING OPERATION. ANY CONSTRUCTION DEBRIS THAT HAS FALLEN INTO THE MANHOLE DURING OPERATION SHALL BE IMMEDIATELY REMOVED. DISPOSAL OF CONSTRUCTION DEBRIS IN THE SEWER SYSTEM IS STRICTLY PROHIBITED AT ALL TIMES.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE CLEANING AND/OR COST OF CLEANING THE MANHOLE DUE TO DEBRIS ENTERING THE SEWER SYSTEM.

15. CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE THE TIME WHERE ACCESS TO THE MANHOLE IS LIMITED, i.e. LOWERING, PAVING, AND ADJUSTMENT TO FINAL GRADE.

16. THE COST OF THE ABOVE SEWER NOTES 9 THROUGH 15 SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL AND INCLUDED.

SEWER NOTES (FOR CD ROADS PROJECT) CONT.:

17. FOR ENTRY BY CITY PERSONNEL, INCLUDING ITS INSPECTORS AND REPRESENTATIVES, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

   A. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFIDED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
      a. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
      b. LIFELINE AND ASSOCIATED CLIPS.
      c. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
      d. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
      e. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
      f. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
      g. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE, AND FLAMMABLE GASES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20 FEET AWAY).
      h. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
   B. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
   C. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT) FOR EACH ENTRANT INTO A CONFINED SPACE.
   D. ALL SAFETY EQUIPMENT SHALL COMPLY WITH THE STANDARDS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL APPLICABLE FEDERAL, STATE, AND CITY LAWS AND REGULATIONS RELATING TO SAFETY.

WATER NOTES FOR RESURFACING

1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEM STANDARDS". DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARD", VOLUME 3, DATED 1991, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.

2. ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY.

3. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THEIR ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.

4. RE-APPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF TWO (2) YEARS.

5. THE CONTRACTOR SHALL NOTIFY BWS CAPITAL PROJECTS DIVISION, CONSTRUCTION SECTION IN WRITING, ONE (1) WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.

6. THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LATERAL LOCATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS PRIOR TO COMMENCING WITH ANY OF THE WORK AND SHALL NOT ASSUME THAT WHERE NO SERVICES ARE SHOWN, NONE EXIST.

7. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES/VALVE BOXES/METER BOXES WITHIN THE RESURFACED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR "REFERENCING" THESE MANHOLES/VALVE BOXES/METER BOXES TO FACILITATE THE ADJUSTMENTS.

8. PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES.

9. TWO-WAY BLUE REFLECTIVE HYDRANT MARKERS TYPE DB SHALL BE INSTALLED AT ALL FIRE HYDRANT LOCATIONS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES, AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS (WITH BWS APPROVAL) AND/OR MODIFYING HIS CONSTRUCTION METHOD.

CONSTRUCTION NOTES FOR HAWAI'I GAS FACILITIES:

1. HAWAI'I GAS PIPELINES IN THE PROJECT AREA ARE PLASTIC COATED AND CATHODICALLY PROTECTED. THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WHEN WORKING NEAR THESE GAS PIPELINES.

2. WRITTEN CLEARANCES MUST BE OBTAINED FROM HAWAI'I GAS, MAPS AND RECORDS DEPARTMENT, 515 KAMAKEE STREET, AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING EXCAVATION NEAR THESE GAS PIPELINES.

3. SINCE GAS LINE LOCATIONS ON FIELD MAPS ARE APPROXIMATE, THE CONTRACTOR, AFTER OBTAINING WRITTEN CLEARANCE, SHALL CALL HAWAII ONE CALL CENTER A MINIMUM OF FIVE (5) WORKING DAYS BEFORE STARTING EXCAVATION TO ARRANGE FOR FIELD LOCATION OF THE EXISTING GAS PIPELINES. THE TELEPHONE NUMBER IS 811 OR 1-866-423-7287.

4. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL AROUND GAS PIPELINES IN THE PRESENCE OF A REPRESENTATIVE OF HAWAI'I GAS. ALL BACKFILL WITHIN SIX INCHES OF ANY GAS PIPELINE SHALL BE SELECT CUSHION MATERIAL APPROVED BY HAWAI'I GAS.

5. FOR RELOCATION OF ANY GAS PIPELINE, THE CONTRACTOR SHALL NOTIFY HAWAI'I GAS FIVE (5) WORKING DAYS BEFORE STARTING WORK. THE TELEPHONE NUMBER IS 808-594-5574. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EXCAVATION AND BACKFILL, OBTAIN TRAFFIC PERMITS, AND RESTORE PAVEMENT, SIDEWALKS, AND OTHER FACILITIES. ANY RELOCATION OF GAS FACILITIES SHALL BE DONE BY HAWAI'I GAS AND PAID FOR BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL NOTIFY HAWAI'I GAS IMMEDIATELY AFTER ANY DAMAGE HAS BEEN CAUSED TO EXISTING GAS PIPELINES, COATINGS, OR ITS CATHODIC PROTECTION DEVICES. THE TELEPHONE NUMBER IS 808-535-5933, 24 HOURS A DAY. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO THE HAWAI'I GAS FACILITIES. REPAIR WORK ON SUCH DAMAGE SHALL BE DONE BY HAWAI'I GAS WITH PAYMENT FOR THIS WORK TO BE DONE BY THE CONTRACTOR.

7. MINIMUM VERTICAL AND HORIZONTAL CLEARANCE BETWEEN THE GAS PIPELINES AND OTHER PIPELINES, CONDUITS, DUCTLINES, OR OTHER FACILITIES SHALL BE 12 INCHES. ADEQUATE SUPPORT AND PROTECTION FOR GAS PIPELINES EXPOSED IN THE TRENCH SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY HAWAI'I GAS.

8. THE CONTRACTOR SHALL WORK IN AN EXPEDITIOUS MANNER IN ORDER TO KEEP THE UNCOVERED GAS PIPELINES EXPOSED FOR AS SHORT A PERIOD OF TIME AS POSSIBLE.

DEPARTMENT OF TRANSPORTATION SERVICES (DTS) TRANSPORATION MOBILITY DIVISION (TMD)

CONSTRUCTION OF THIS PROJECT SHALL NOT AFFECT TRANSIT OPERATIONS. BUS ROUTES AND BUS STOPS SHALL REMAIN OPEN AND ACCESSIBLE AT ALL TIMES. ANY WORK AFFECTING BUS OPERATIONS, ROUTES, OR STOPS MUST BE SUBMITTED TO DTS-TMD FOR REVIEW **NO LESS THAN 30 DAYS** PRIOR TO THE START DATE.

POINT OF CONTACT INFORMATION (NOTIFICATION IS REQUIRED TO ALL PHONE NUMBERS AND EMAILS):

DTS-TMD
(808) 768-8396
thebusstop@honolulu.gov
handivan@honolulu.gov

OAHU TRANSIT SERVICES-BUS OPERATIONS
(808) 768-9520
(808) 768-9534
John.donovan@thebus.org
Sean-bennett.paio@thebus.org
Field-ops-mgr@thebus.org

OAHU TRANSIT SERVICES-PARATRANSIT OPERATIONS
(808)456-5021
Tracie.coelho@thebus.org

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CONSTRUCTION NOTES - 4

DESIGN	KH	APPROVED:	DRAWING NO. C004
DRAWN	MV		SHEET NO. 5
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\05 CONSTRUCTION NOTES - 4.DWG
JOB NO. 0-20-024
051325

GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE CITY AND COUNTY OF HONOLULU'S "RULES RELATING TO WATER QUALITY"

2. MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CONSTRUCTION IS INITIATED.

3. REGULARLY INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROLS TO ENSURE CONTINUED PERFORMANCE.

4. PERMANENT STABILIZATION

   ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED USING VEGETATIVE COVERING, PAVEMENT, OR EQUIVALENT, PRIOR TO REMOVING EROSION AND SEDIMENT MEASURES. TRAPPED SEDIMENT AND AREAS OF DISTURBED SOIL WHICH RESULT FROM THE REMOVAL OF THE TEMPORARY MEASURES SHALL BE IMMEDIATELY AND PERMANENTLY STABILIZED.

5. PERIMETER CONTROLS

   PERIMETER CONTROLS ARE REQUIRED DOWNSLOPE OF EQUIPMENT/VEHICLE STAGING AREAS AT THE END OF EACH BUSINESS DAY AND AROUND MATERIAL STOCKPILES THAT ARE NOT ACTIVELY BEING USED. STOCKPILES ARE NOT ALLOWED IN THE CITY RIGHT-OF-WAY.

6. INLET PROTECTION

   - ALL STORM DRAIN INLETS ONSITE AND THOSE OFFSITE WHICH MAY RECEIVE RUNOFF FROM THE SITE SHALL USE AN INLET PROTECTION DEVICE UNLESS THEY ARE DIRECTED TO A SEDIMENT BASIN.
   - SEDIMENT LEVELS MAY NOT EXCEED ONE THIRD OF THE HEIGHT OF A SEDIMENT BARRIER OR INLET PROTECTION DEVICE AT ANY POINT ALONG THE LENGTH OF THE SEDIMENT BARRIER OR THE INLET PROTECTION DEVICE.
   - SEDIMENT BARRIERS AND INLET PROTECTION DEVICES BE UNCLOGGED AND CLEANED WHEN PERFORMANCE IS COMPROMISED.
   - TORN, WEATHERED OR SAGGING SEDIMENT BARRIERS OR INLET PROTECTION DEVICES MUST BE REPAIRED OR REPLACED IMMEDIATELY.

7. TRACKING CONTROL

   - MINIMIZE SEDIMENT TRACK-OUT ONTO OFF-SITE STREETS, OTHER PAVED AREAS, AND SIDEWALKS FROM VEHICLES EXITING THE CONSTRUCTION SITE BY RESTRICTING VEHICLE TRAFFIC TO PROPERLY DESIGNATED AREAS AND USING ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXITING THE SITE.
   - VEHICULAR PARKING AND MOVEMENTS ON PROJECT SITES MUST BE CONFINED TO PAVED SURFACES OR PREDEFINED PARKING AREAS AND VEHICLE PATHS, WHICH SHALL BE MARKED WITH FLAGS OR BOUNDARY FENCING.
   - ALL POLLUTANTS AND MATERIALS THAT ARE DROPPED, WASHED, TRACKED, SPILLED, OR OTHERWISE DISCHARGED FROM A PROJECT SITE TO OFF-SITE STREETS, OTHER PAVED AREAS, SIDEWALKS OR THE MS4 MUST BE CLEANED USING DRY METHODS SUCH AS SWEEPING OR VACUUMING.
   - WASHING POLLUTANTS AND MATERIALS THAT ARE DISCHARGED FROM THE PROJECT SITE TO THE MS4 INTO DRAIN INLETS OR CATCH BASINS IS PROHIBITED UNLESS THE MATERIAL IS SEDIMENT AND THE INLETS ARE DIRECTED TO A SEDIMENT BASIN OR SEDIMENT TRAP.

8. BEST MANAGEMENT PRACTICES (BMPS) SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS COMPLETE FOR THAT PHASE.

9. REFER TO THE CITY AND COUNTY OF HONOLULU BEST MANAGEMENT PRACTICES MANUAL-CONSTRUCTION, FOR MORE INFORMATION ON BMPS.

10. THE FOLLOWING BMPS WERE DETERMINED TO BE NOT APPLICABLE BASED ON THE SPECIFIC SITE CONDITIONS, AS CONSTRUCTION PROGRESSES, REVISIONS MAY BE NECESSARY AND WILL BE PROVIDED TO DPP INSPECTORS.

    DEWATERING OPERATIONS – GROUNDWATER IS NOT ANTICIPATED.

11. AN ESCP COORDINATOR MUST BE DESIGNATED USING THE FORM IN APPENDIX A TO THE RULES RELATING TO WATER QUALITY PRIOR TO PERMITTING.

12. NOTIFY DPP IN WRITING OF PROJECT START DATE TWO WEEKS PRIOR TO STARTING WORK.

13. PRACTICE GOOD HOUSEKEEPING MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.

14. INSPECTIONS WILL BE PERFORMED WEEKLY.

PROJECT SEQUESNCE:

- INSTALL INLET PROTECTION AND PERIMETER CONTROLS AROUND STAGING AREAS AND MATERIAL STOCKPILES AS NEEDED.
- PROCEED WITH CONSTRUCTION WITH LEAST POSSIBLE DISTURBANCE OF VEGETATIVE AREAS AND TEMPORARY STRUCTURES.
- INSTALL PERIMETER CONTROLS AROUND ACTIVE WORK AREAS AT THE END OF EACH BUSINESS DAY IF NOT STABILIZED.
- PLANT PERMANENT GROUND COVER ACCORDING TO THE LANDSCAPING PLAN AS SOON AS POSSIBLE.
- REMOVE OR DISMANTLE TEMPORARY EROSION CONTROL STRUCTURES AFTER PERMANENT STABILIZATION.

RAIN RESPONSE PLAN:

THE FOLLOWING WILL BE PERFORMED WHEN RAIN IS IMMINENT OR IS FORECASTED IN THE NEXT 48 HOURS:

- TEMPORARY SUSPENSION OF ACTIVE TRENCHING.
- INSPECT ALL PERIMETER CONTROLS, AND INLET PROTECTION DEVICES, AND MAINTAIN AS NEEDED. REINSTALL ANY PERIMETER CONTROLS THAT WERE REMOVED DUE TO ACTIVE WORK IN THE AREA. IF A SEVERE STORM IS EXPECTED, REMOVE INLET PROTECTION DEVICES TO PREVENT FLOODING ON SURROUNDING STREETS.
- COVER OR RELOCATE MATERIAL STOCKPILES AND LIQUID MATERIAL CONTAINERS TO AVOID CONTACT WITH RAINWATER.
- PLACE SPILL PANS OR OIL-ONLY SPILL PADS UNDER CONSTRUCTION VEHICLES TO PREVENT RUNOFF FROM CONTACTING ANY SPILLED PETROLEUM PRODUCTS. PROPERLY DISPOSE OF ANY ACCUMULATED OILY WATER AFTER THE RAIN EVENT.
- RE-INSPECT AFTER THE RAIN EVENT AND REPLACE OR MAINTAIN BMP AS NEEDED.

GOOD HOUSEKEEPING BMPS:

1. STREET SWEEPING AND VACUUMING

   ALL POLLUTANTS DISCHARGED FROM A CONSTRUCTION SITE TO OFF-SITE AREAS MUST BE SWEPT OR VACUUMED EACH DAY BEFORE LEAVING THE JOB SITE.

2. MATERIALS DELIVERY, STORAGE AND USE MANAGEMENT

   PREVENT, REDUCE, OR ELIMINATE THE DISCHARGE OF POLLUTANTS FROM MATERIAL DELIVERY, STORAGE, AND USE TO THE STORM WATER SYSTEM OR WATERCOURSES BY MINIMIZING THE STORAGE OF HAZARDOUS MATERIALS ONSITE, STORING MATERIALS IN A DESIGNATED AREA, INSTALLING SECONDARY CONTAINMENT. CONSTRUCTION MATERIALS, WASTE, TOXIC AND HAZARDOUS SUBSTANCES, STOCKPILES AND OTHER SOURCES OF POLLUTION SHALL NOT BE STORED IN BUFFER AREAS, NEAR AREAS OF CONCENTRATED FLOW, OR AREAS ABUTTING THE MS4, RECEIVING WATERS, OR DRAINAGE IMPROVEMENTS THAT DISCHARGE OFF-SITE. PRIMARY AND SECONDARY CONTAINMENT CONTROLS AND COVERS SHALL BE IMPLEMENTED TO THE MEP.

3. SPILL PREVENTION AND CONTROL

   CREATE AND IMPLEMENT SPILL PREVENTION AND RESPONSE PLANS TO ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO THE MS4 AND RECEIVING WATERS FROM LEAKS AND SPILLS BY REDUCING THE CHANCE FOR SPILLS, ABSORBING, CONTAINING, AND CLEANING UP SPILLS AND PROPERLY DISPOSING OF SPILL MATERIALS. AT A MINIMUM, ALL PROJECTS SHALL CLEAN UP ALL LEAKS AND SPILLS IMMEDIATELY.

4. HAZARDOUS MATERIALS

   PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM HAZARDOUS WASTE THROUGH PROPER MATERIAL USE AND WASTE DISPOSAL. IN THE EVENT THAT HAZARDOUS MATERIALS ARE DISCHARGED TO THE MS4, THE PROPERTY OWNER OR ESCP COORDINATOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF FACILITIES MAINTENANCE, HONOLULU FIRE DEPARTMENT, AND HONOLULU POLICE DEPARTMENT OF THE DISCHARGE BY TELEPHONE. A WRITTEN REPORT DESCRIBING THE POLLUTANTS THAT WERE DISCHARGED, THE REASONS FOR THE DISCHARGE, AND THE MEASURES THAT HAVE BEEN TAKEN OR WILL BE TAKEN TO PREVENT A REOCCURRENCE OF THE DISCHARGE SHALL BE SUBMITTED TO THE DIRECTOR NO LESS THAN 3 DAYS AFTER NOTIFICATION BY PHONE.

5. NON-HAZARDOUS MATERIALS

   IN THE EVENT THAT NON-HAZARDOUS MATERIALS ARE DISCHARGED TO THE MS4, THE PROPERTY OWNER OR ESCP COORDINATOR SHALL NOTIFY THE CITY DEPARTMENT OF FACILITIES MAINTENANCE BY TELEPHONE NO LATER THAN THE NEXT BUSINESS DAY. A WRITTEN REPORT DESCRIBING THE POLLUTANTS THAT WERE DISCHARGED, THE REASONS FOR THE DISCHARGE, AND THE MEASURES THAT HAVE BEEN TAKEN OR WILL BE TAKEN TO PREVENT A REOCCURRENCE OF THE DISCHARGE SHALL BE SUBMITTED TO THE DIRECTOR NO LESS THAN 3 DAYS AFTER NOTIFICATION BY PHONE.

6. VEHICLE AND EQUIPMENT CLEANING

   ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM VEHICLE AND EQUIPMENT CLEANING OPERATIONS BY USING OFF-SITE FACILITIES WHEN FEASIBLE, WASHING IN DESIGNATED, CONTAINED AREAS ONLY, AND ELIMINATING DISCHARGES TO THE STORM DRAIN SYSTEM BY EVAPORATING AND/OR TREATING WASH WATER AS APPROPRIATE OR INFILTRATING WASH WATER FOR EXTERIOR CLEANING ACTIVITIES THAT USE WATER ONLY.

GOOD HOUSEKEEPING BMPS (CONT'D):

7. VEHICLE AND EQUIPMENT FUELING

   PREVENT FUEL SPILLS AND LEAKS BY USING OFF-SITE FACILITIES, FUELING ONLY IN DESIGNATED AREAS, ENCLOSING OR COVERING STORED FUEL, AND IMPLEMENTING SPILL CONTROLS SUCH AS SECONDARY CONTAINMENT AND ACTIVE MEASURES USING SPILL RESPONSE KITS.

8. VEHICLE AND EQUIPMENT MAINTENANCE

   ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM VEHICLE AND EQUIPMENT MAINTENANCE OPERATIONS BY USING OFF-SITE FACILITIES WHEN FEASIBLE, PERFORMING WORK IN DESIGNATED AREAS ONLY, USING SPILL PADS UNDER VEHICLES AND EQUIPMENT, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY.

9. SOLID WASTE MANAGEMENT

   PREVENT OR REDUCE DISCHARGE OF POLLUTANTS TO THE LAND, GROUNDWATER, AND IN STORM WATER FROM SOLID WASTE OR CONSTRUCTION AND DEMOLITION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS, COLLECT SITE TRASH DAILY, AND ENSURING THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS.

10. SANITARY/SEPTIC WASTE MANAGEMENT

    TEMPORARY AND PORTABLE SANITARY AND SEPTIC WASTE SYSTEMS SHALL BE MOUNTED OR STAKED IN, WELL-MAINTAINED, AND SCHEDULED FOR REGULAR WASTE DISPOSAL AND SERVICING. SOURCES OF SANITARY AND/OR SEPTIC WASTE SHALL NOT BE STORED NEAR THE MS4 OR RECEIVING WATERS.

11. STOCKPILE MANAGEMENT

    STOCKPILES SHALL NOT BE LOCATED IN DRAINAGE WAYS, WITHIN 50 FEET FROM AREAS OF CONCENTRATED FLOWS, AND ARE NOT ALLOWED IN THE CITY RIGHT-OF-WAY. SEDIMENT BARRIERS OR SILT FENCES SHALL BE USED AROUND THE BASE OF ALL STOCKPILES. STOCKPILES SHALL NOT EXCEED 15 FEET IN HEIGHT. STOCKPILES GREATER THAN 15 FEET IN HEIGHT SHALL REQUIRE 8 FOOT WIDE BENCHING IN ACCORDANCE WITH ROH CHAPTER 18A, ARTICLE 3. STOCKPILES MUST BE COVERED WITH PLASTIC SHEETING OR A COMPARABLE MATERIAL IF THEY WILL NOT BE ACTIVELY USED WITHIN 7 DAYS.

12. LIQUID WASTE MANAGEMENT

    LIQUID WASTE SHALL BE CONTAINED IN A CONTROLLED AREA SUCH AS A HOLDING PIT, SEDIMENT BASIN, ROLL-OFF BIN, OR PORTABLE TANK OF SUFFICIENT VOLUME AND TO CONTAIN THE LIQUID WASTES GENERATED. CONTAINMENT AREAS OR DEVICES MUST BE IMPERMEABLE AND LEAK FREE AND SHOULD NOT BE LOCATED WHERE ACCIDENTAL RELEASE OF THE CONTAINED LIQUID CAN DISCHARGE TO WATER BODIES, CHANNELS, OR STORM DRAINS.

13. CONCRETE WASTE MANAGEMENT

    PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFFSITE OR PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MILLIMETER POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. CONTAINMENT AREAS OR DEVICES SHOULD NOT BE LOCATED WHERE ACCIDENTAL RELEASE OF THE CONTAINED LIQUID CAN DISCHARGE TO WATER BODIES, CHANNELS, OR STORM DRAINS. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75 PERCENT FULL. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF AS SOLID WASTES.

14. CONTAMINATED SOIL MANAGEMENT

    AT MINIMUM CONTAIN CONTAMINATED MATERIAL SOIL BY SURROUNDING WITH IMPERMEABLE LINED BERMS OR COVER EXPOSED CONTAMINATED MATERIAL WITH PLASTIC SHEETING. CONTAMINATED SOIL SHOULD BE DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

15. DUST CONTROL

    DUST FROM THE PROJECT SITE SHALL NOT BE TRANSPORTED OR DISCHARGED TO OFF-SITE AREAS.

APPROVED:

DIRECTOR, DEPARTMENT OF PLANNING & PERMITTING (FOR COMPLIANCE WITH WATER QUALITY REQUIREMENTS WITHIN CITY ROW ONLY) — DATE

CHIEF, CIVIL ENGINEERING BRANCH, DPP — DATE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO — LICENSED PROFESSIONAL ENGINEER — No. 6998-C — HAWAII, U.S.A.

EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC. — CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN NOTES

DESIGN	KH	APPROVED:	DRAWING NO. C005
DRAWN	MV		SHEET NO. 6
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\06 EROSION AND SEDIMENT CONTROL PLAN NOTES.DWG
JOB NO. 0-20-024
051325

TEMPORARY DUST CONTROL MEASURES

1. THE PROJECT SITE THAT IS CLEARED SHALL BE KEPT DAMP FOR (7) SEVEN 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.

2. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT DEMOLITION, EXCAVATION, EMBANKMENT, AND IMPORTED MATERIAL SHALL BE DAMPENED TO PREVENT DUST PROBLEMS. IN APPLYING FOR A WORK WITHIN THE COUNTY RIGHT-OF-WAY PERMIT.

3. THE CONTRACTOR SHALL SUBMIT PLANS, SCHEDULES AND/OR WRITTEN MEASURES WHICH PROVIDE FOR DUST CONTROL. THE DUST CONTROL MEASURES SHALL CONTAIN POSITIVE STATEMENTS WHICH REQUIRE ACTIONS OR WORK THAT PREVENT DUST PROBLEMS. NO PERMITS WILL BE ISSUED UNLESS THE COUNTY IS ASSURED THAT DUST PROBLEMS WILL BE MINIMIZED.

MISCELLANEOUS EROSION CONTROL NOTES

1. THE SITE SPECIFIC BMP AND MONITORING PLAN SHALL BE CONSIDERED A PART OF THE CONTRACT AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AN INVENTORY OF ALL THE NECESSARY BMP MATERIALS WILL BE CONDUCTED PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL KEEP AND MAINTAIN ALL THE MATERIALS ON THE JOB SITE OR STAGING AREA READILY AVAILABLE FOR USE. THE NECESSARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE THE NOTICE TO PROCEED DATE, OR BEFORE THE CONTRACTOR CAN START HIS WORK.

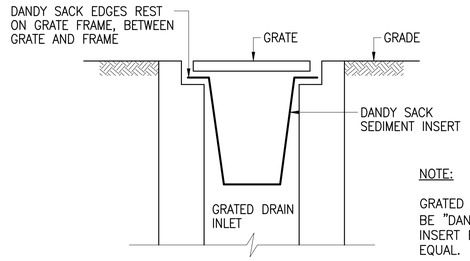
ENVIRONMENTAL PROTECTION

UNDER THE PROVISIONS OF CHAPTER 342-D, HAWAII REVISED STATUTES, ENVIRONMENTAL QUALITY, CHAPTER 52, WATER QUALITY STANDARDS, AND CHAPTER 342-B SPECIFICALLY, CHAPTER 11, THE FOLLOWING GENERAL REQUIREMENTS SHALL BE COMPLIED WITH FOR POLLUTION CONTROL IN PERFORMING THE CONSTRUCTION ACTIVITIES.

1. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY REMEDIAL ACTION BY THE DIRECTOR, DEPARTMENT OF PUBLIC WORKS, SHALL BE PAYABLE BY THE CONTRACTOR.

2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.

3. THE GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN THE PUBLIC HEALTH REGULATIONS, STATE DEPARTMENT OF HEALTH, ON WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS.

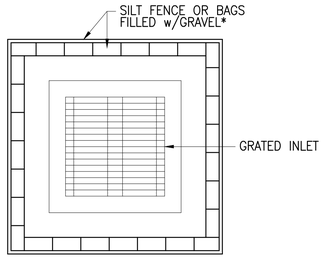


NOTE:

GRATED DRAIN INLET FILTER SHALL BE "DANDY SACK" SEDIMENT INSERT BY BOWHEAD OR APPROVED EQUAL.

TEMPORARY SEDIMENT CONTROL FILTER AT GRATED DRAIN INLET

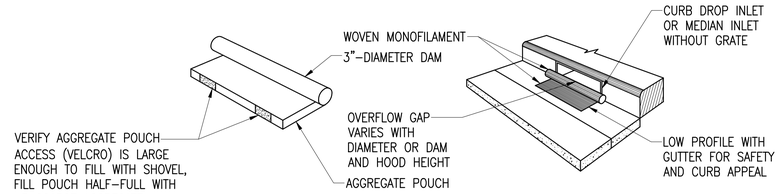
NOT TO SCALE



*USE SILT FENCE IN UNPAVED AREAS, BAGS FILLED w/GRAVEL IN PAVED AREAS.

GRATED INLET EROSION CONTROL PLAN

NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL NOT REMOVE AUTOMATIC RETRACTABLE SCREENS (ARS) PERMANENTLY MOUNTED AT THE INLET OF CATCH BASINS, CONTRACTOR SHALL REPLACE ANY ARS DAMAGED DURING CONSTRUCTION. TEMPORARY BMPS SHALL BE PLACED IN FRONT OF ARS.

SEDIMENT FILTER FOR CATCH BASINS

NOT TO SCALE

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, DPP DATE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN NOTES AND DETAILS

DESIGN	KH
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DATE	3/17/25
JOB NO.	XX-XX

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CHIEF, CIVIL DIVISION, DDC DATE

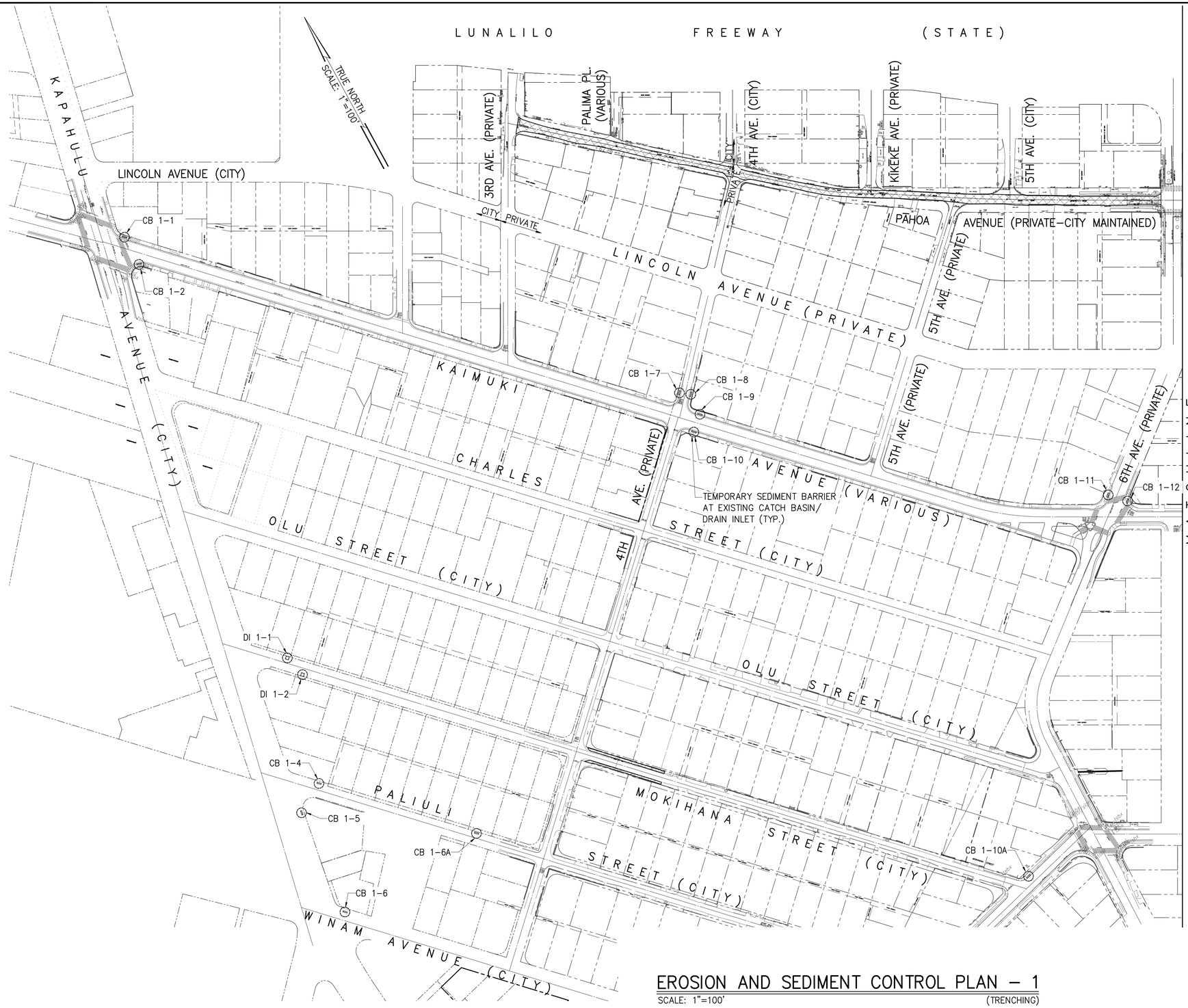
DRAWING NO. C006

SHEET NO. 7 OF 105 SHEETS

FILE	DRAW	FOLDER

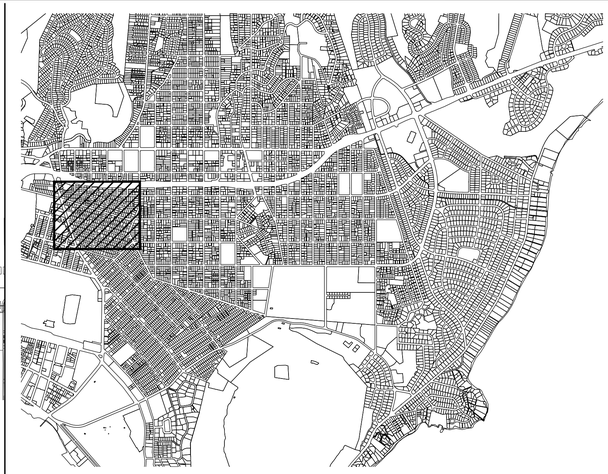
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JOB NO. 0-20-024
051325



EROSION AND SEDIMENT CONTROL PLAN – 1

SCALE: 1"=100' (TRENCHING)



NORTH

KEY PLAN

SCALE: N.T.S.

MATCHLINE
FOR CONTINUATION, SEE SHEET 9

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

- TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET
- LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU
(FOR WORK WITHIN CITY/CITY MAINTAINED ROW ONLY)

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN - 1

DESIGN	KH	APPROVED:	DRAWING NO. C007
DRAWN	MV		SHEET NO. 8
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325

MATCHLINE
FOR CONTINUATION, SEE SHEET 10

TRUE NORTH
SCALE: 1"=100'

HARDING AVENUE (VARIOUS)

LUNALILO FREEWAY (STATE)

CB 1-9

MATCHLINE
FOR CONTINUATION, SEE SHEET 8

7TH AVE. (CITY)
8TH AVE. (CITY)
9TH AVE. (CITY)
10TH AVE. (CITY)

PAHOA AVENUE (CITY)

CB 1-13
CB 1-14

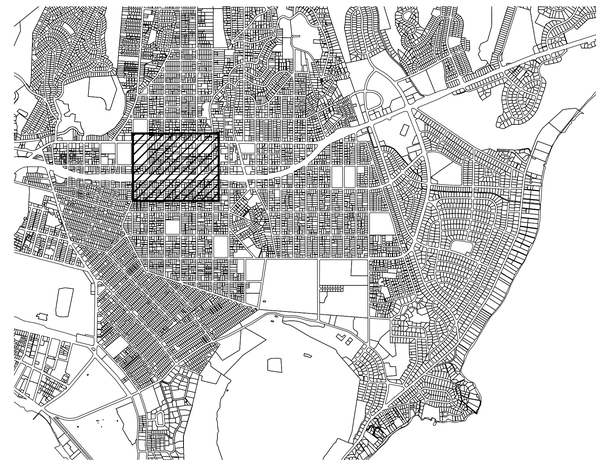
TEMPORARY SEDIMENT BARRIER
AT EXISTING CATCH BASIN/
DRAIN INLET (TYP.)

CB 1-15
CB 1-16
CB 1-17
CB 1-18

KAIMUKI AVENUE (VARIOUS)

EROSION AND SEDIMENT CONTROL PLAN – 2

SCALE: 1"=100' (TRENCHING)



NORTH

KEY PLAN
SCALE: N.T.S.

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET

LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU
(FOR WORK WITHIN CITY/CITY MAINTAINED ROW ONLY)

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN - 2

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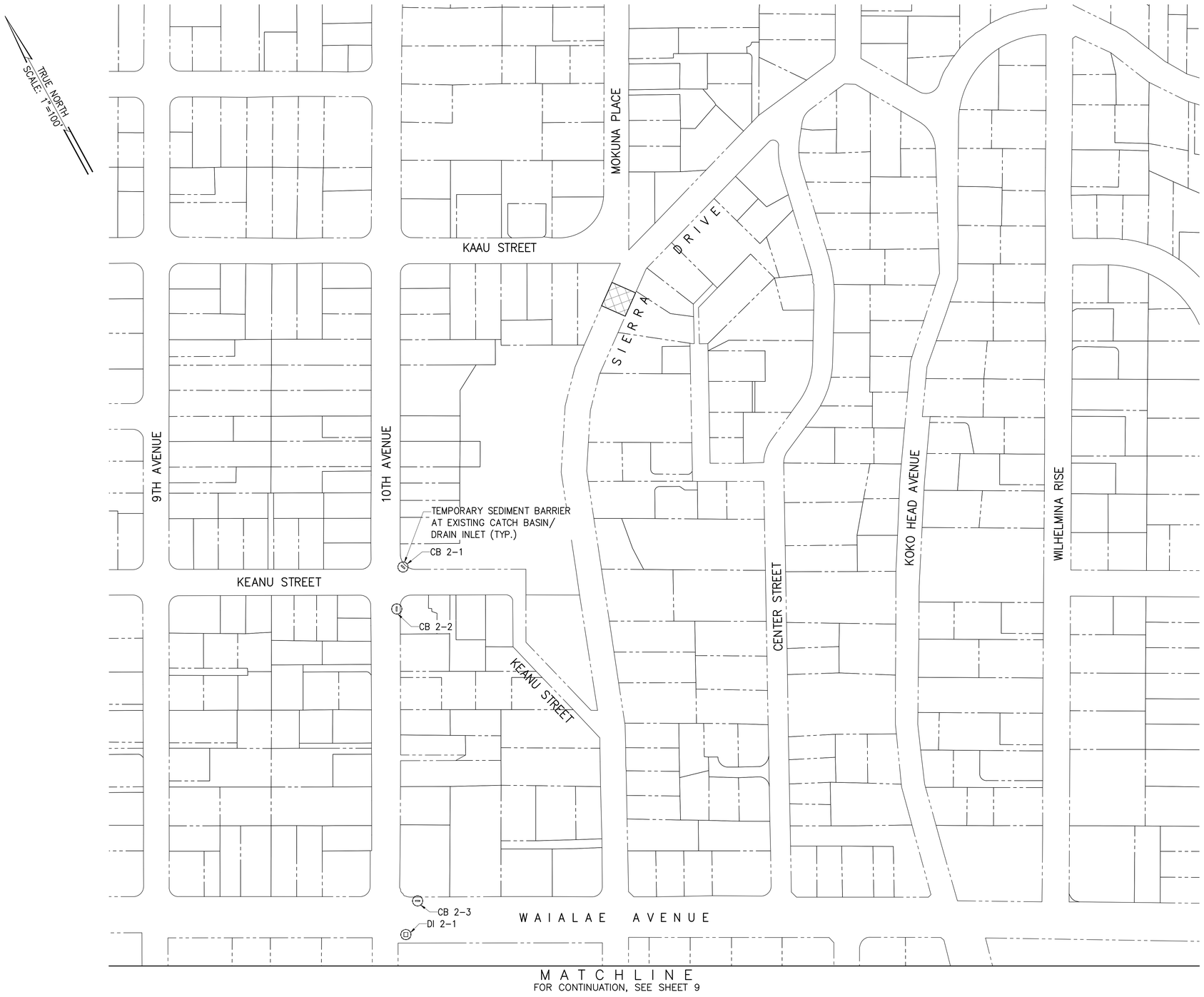
APPROVED:
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C008
SHEET NO. 9 OF 105 SHEETS

FILE DRAW FOLDER

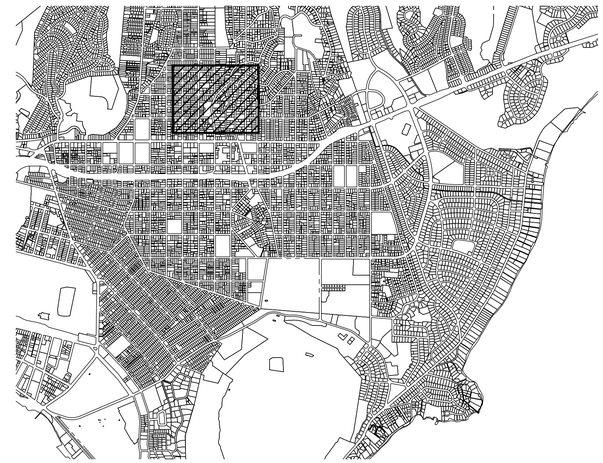
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Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\09 EROSION AND SEDIMENT CONTROL PLAN - 2.DWG
JOB NO. 0-20-024
051325



EROSION AND SEDIMENT CONTROL PLAN – 3

SCALE: 1"=100'



NORTH

KEY PLAN

SCALE: N.T.S.

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

- TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET
- LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN - 3

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

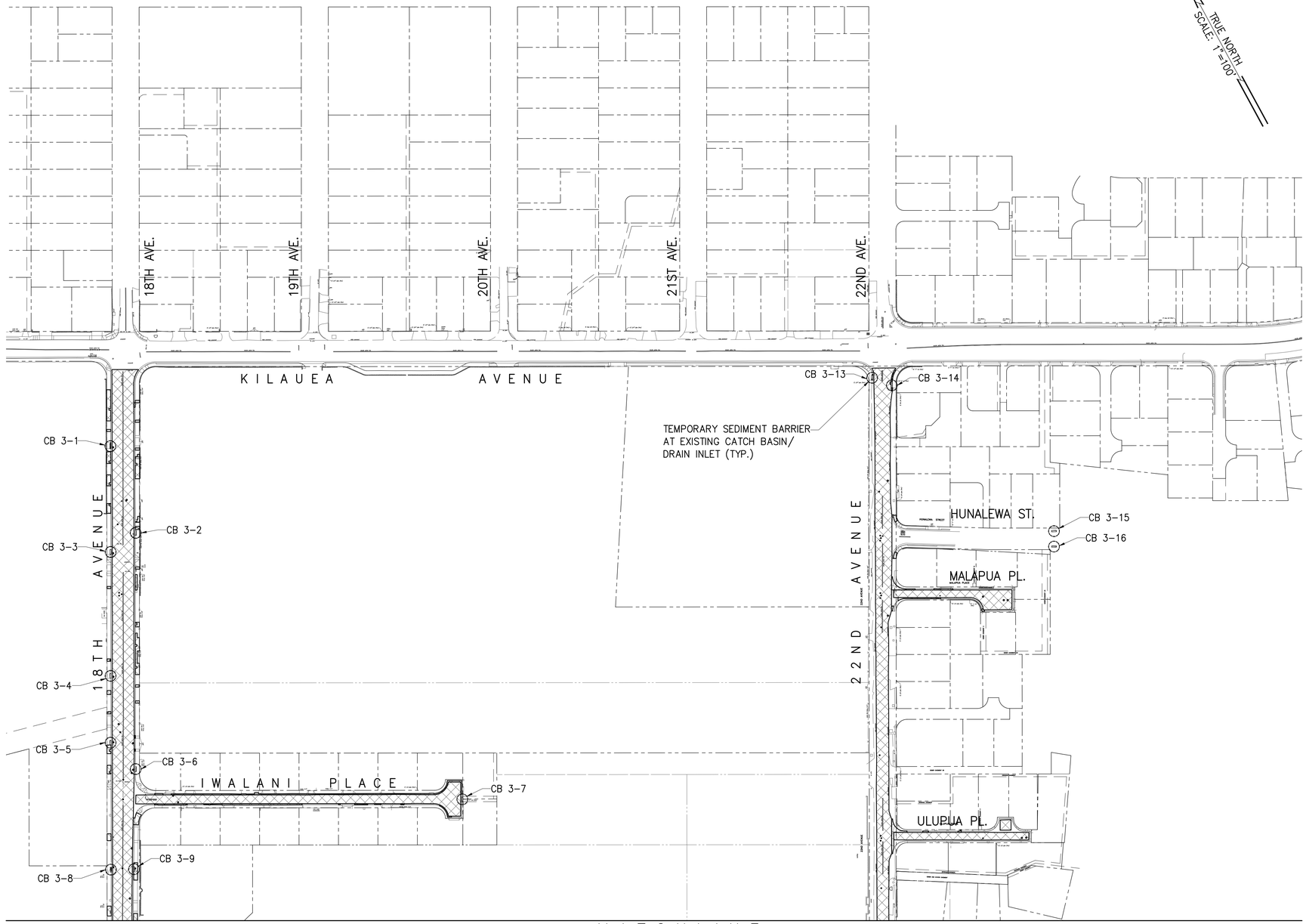
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C009
SHEET NO. 10
OF 105 SHEETS

FILE	DRAW	FOLDER

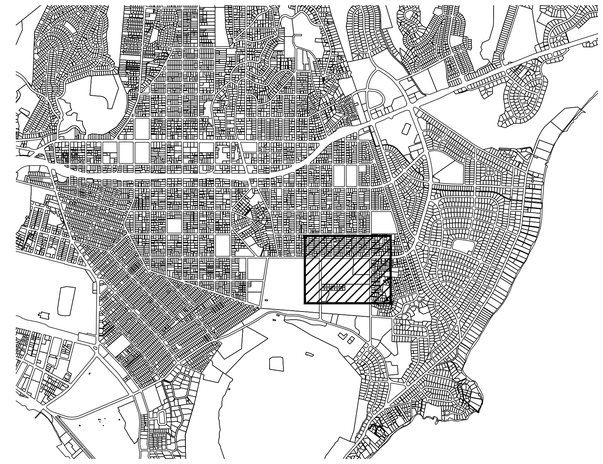
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\10 EROSION AND SEDIMENT CONTROL PLAN – 3.DWG
JOB NO. 0-20-024
0401125



EROSION AND SEDIMENT CONTROL PLAN – 4

SCALE: 1"=100'



NORTH

KEY PLAN
SCALE: N.T.S.

NOTE:

SEE DWGS. 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

- TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET
- LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
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HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

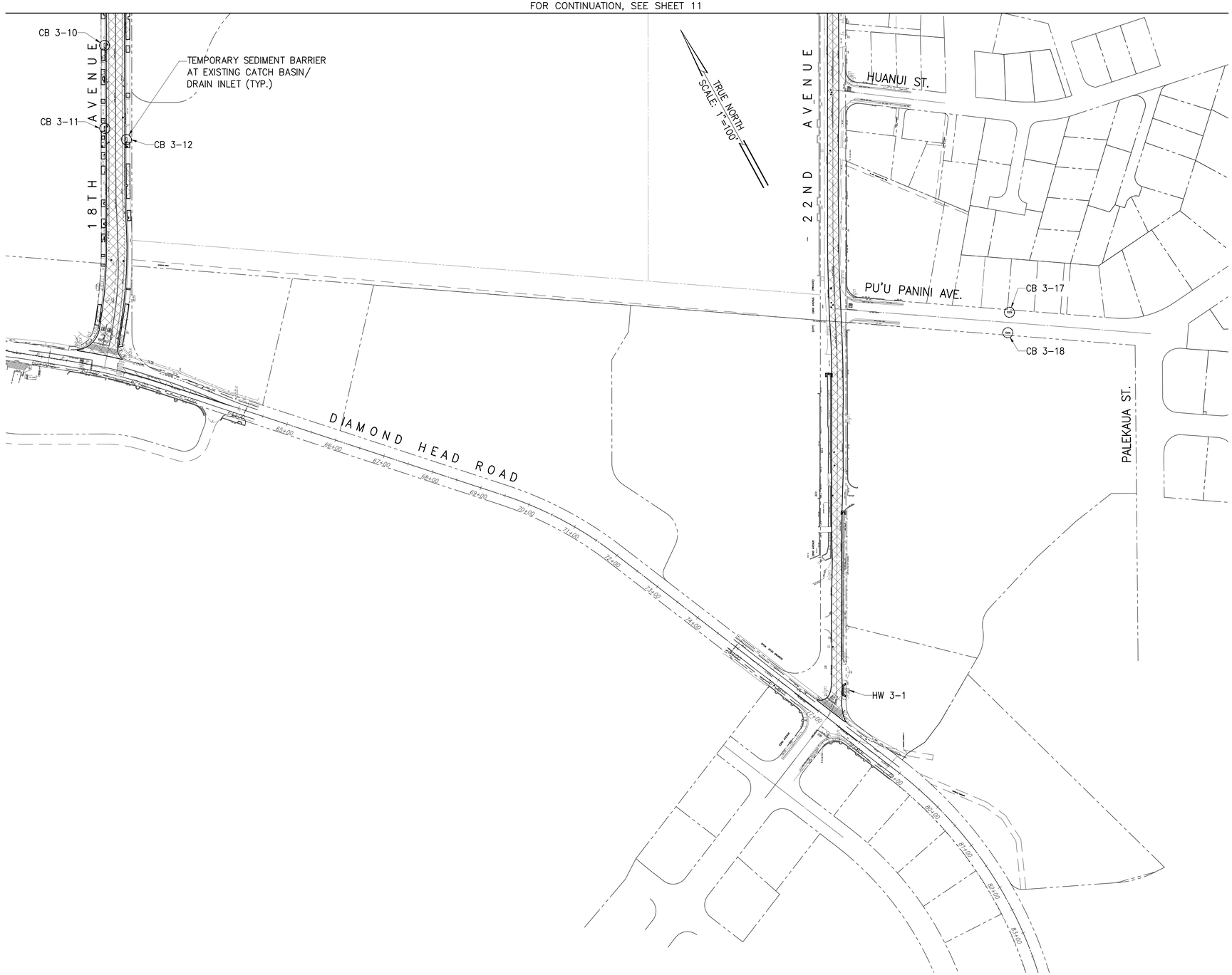
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

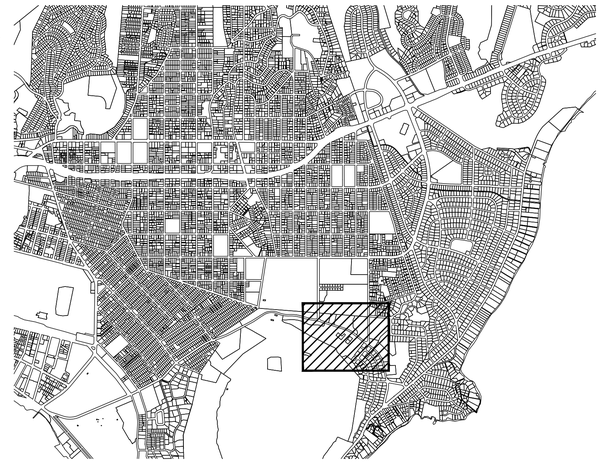
EROSION AND SEDIMENT CONTROL PLAN - 4

DESIGN	KH	APPROVED:	DRAWING NO. C010
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 11
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2BS PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\11 EROSION AND SEDIMENT CONTROL PLAN - 4.DWG
JOB NO. 0-20-024
040125





NORTH

KEY PLAN
SCALE: N.T.S.

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

- TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET
- LIMITS OF WORK
- FILTER SOCK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU

EROSION AND SEDIMENT CONTROL PLAN – 5
SCALE: 1"=100'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
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No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

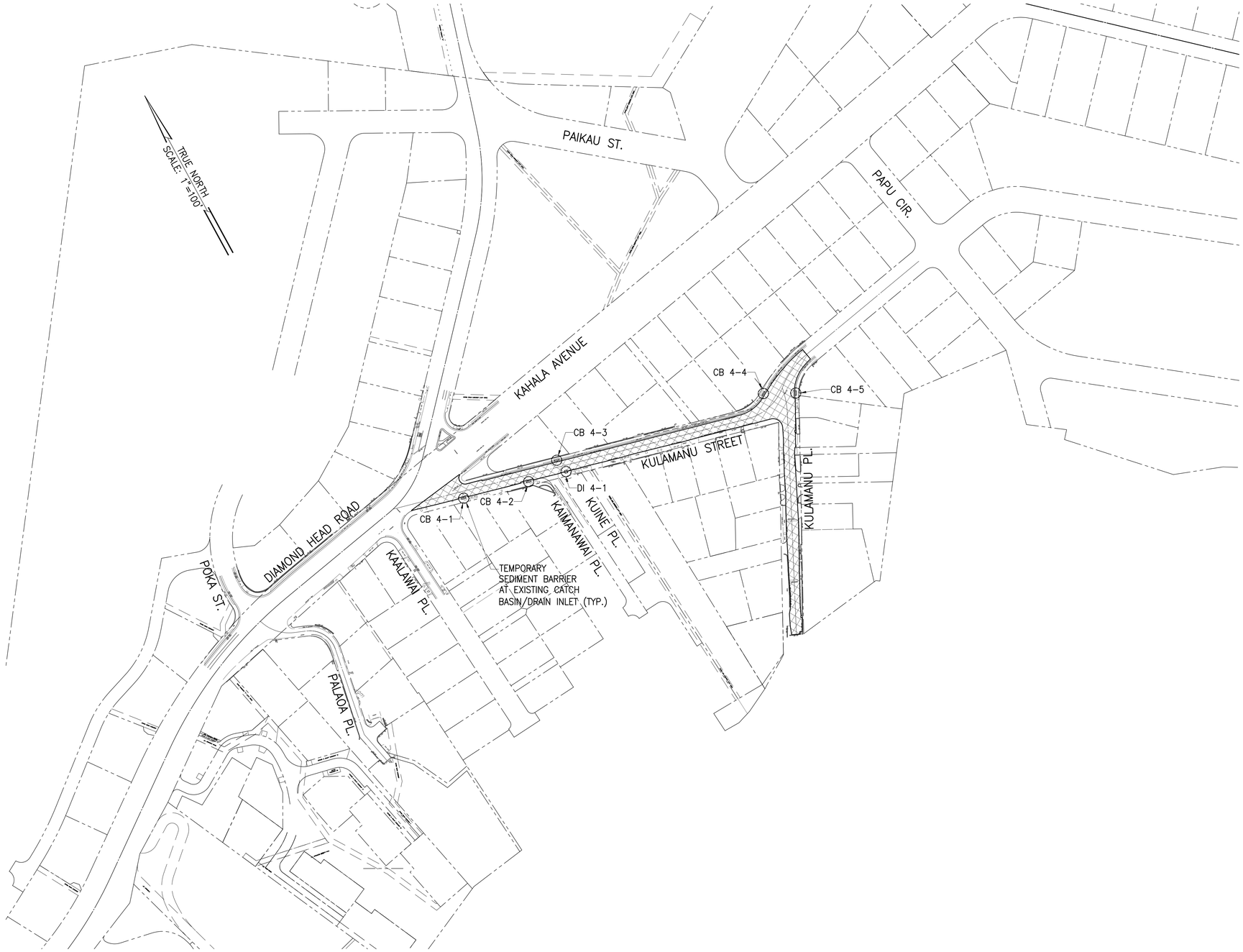
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

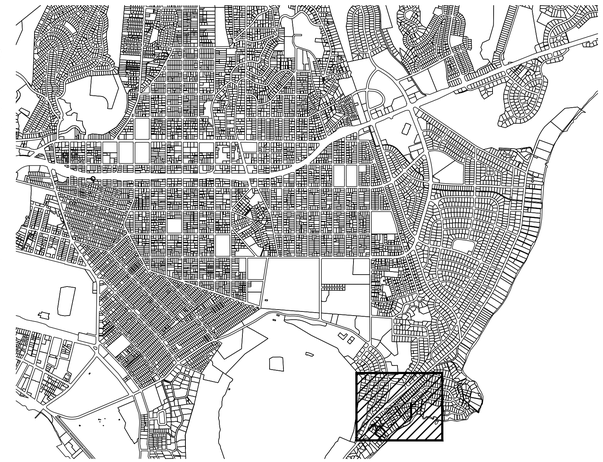
EROSION AND SEDIMENT CONTROL PLAN - 5

DESIGN	KH	APPROVED:	DRAWING NO. C011
DRAWN	MV		SHEET NO. 12
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\12 EROSION AND SEDIMENT CONTROL PLAN - 5.DWG
JOB NO. 0-20-024
040125





KEY PLAN
NORTH
SCALE: N.T.S.

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

- TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET
- LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU

EROSION AND SEDIMENT CONTROL PLAN – 6

SCALE: 1"=100'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

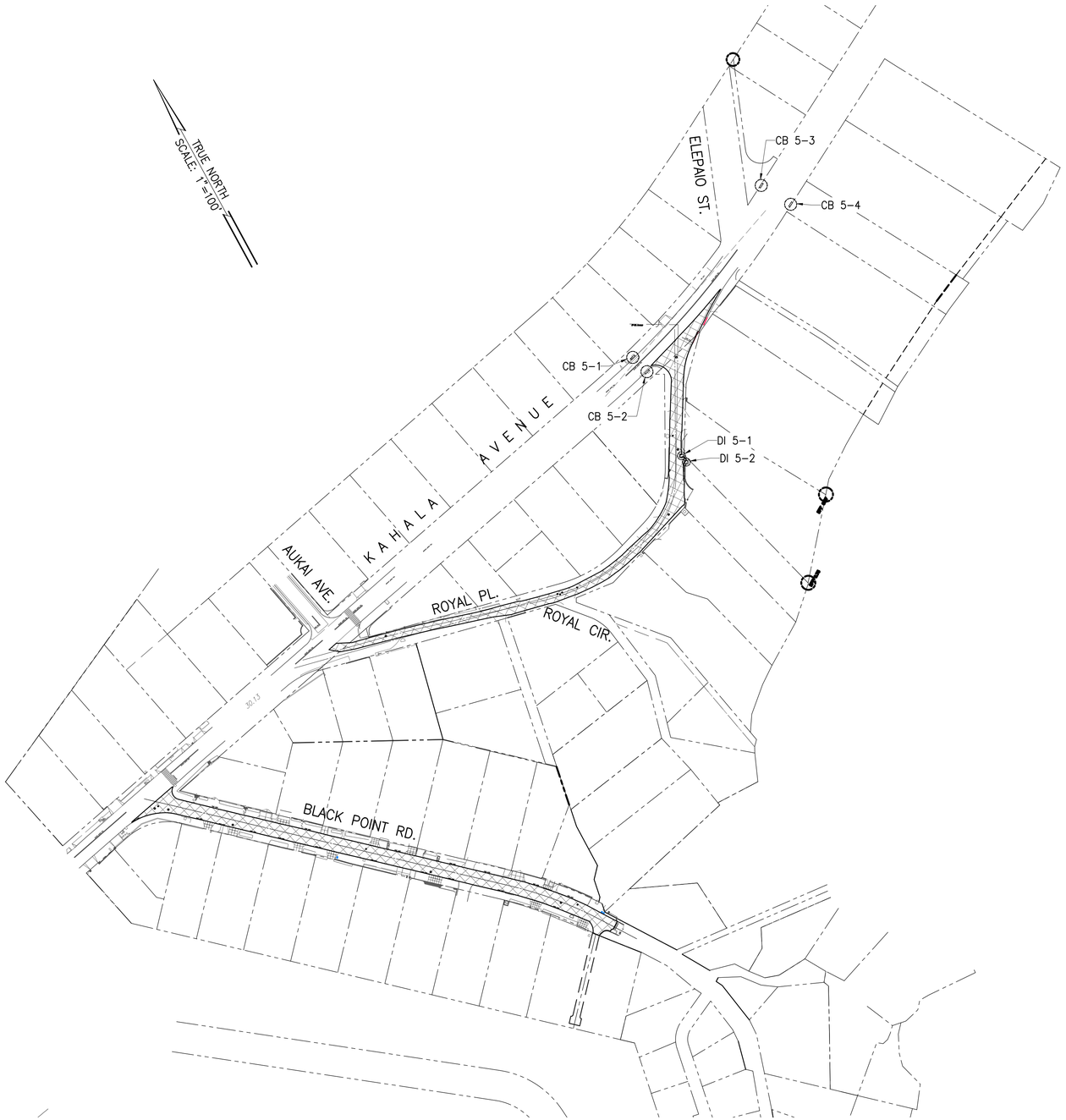
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN - 6

DESIGN	KH	APPROVED:	DRAWING NO. C012
DRAWN	MV		SHEET NO. 13
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

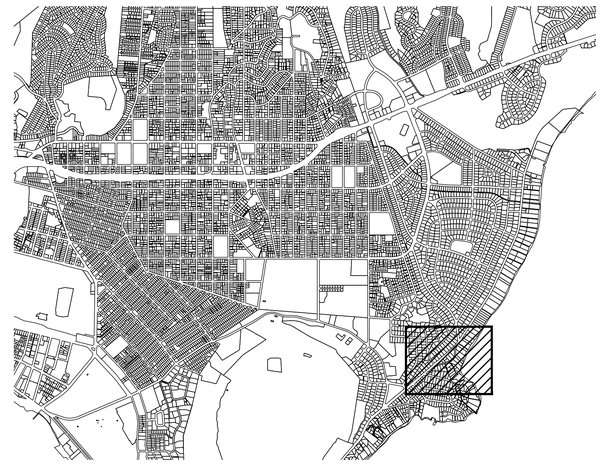
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JOB NO. 0-20-024
040125



EROSION AND SEDIMENT CONTROL PLAN – 7

SCALE: 1"=100'



NORTH

KEY PLAN

SCALE: N.T.S.

NOTE:

SEE SHEETS 6 AND 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

LEGEND:

TEMPORARY SEDIMENT BARRIER AT EXISTING CATCH BASIN/DRAIN INLET

LIMITS OF WORK

APPROVED:

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P. DATE
CITY & COUNTY OF HONOLULU

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

EROSION AND SEDIMENT CONTROL PLAN - 7

DESIGN	KH	APPROVED:	DRAWING NO. C013
DRAWN	MV		SHEET NO. 14
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\14 EROSION AND SEDIMENT CONTROL PLAN - 7.DWG
JOB NO. 0-20-024
040125

CORING DATA (FOR INFORMATION ONLY)

Coring No.	Street Name	From:	To:	Existing Asphalt Concrete Pavement Thickness (Inches)	Type of Base Course	Design Asphalt Concrete Pavement Thickness			
							Depth	Depth	Lifts
						Sht. No.	A.C.P. (In)	A.C.B. (In)	A.C.P. (In)
C–1	Pāhoa Ave.	3rd Ave.	4th Ave.	1.5	Silty Gravel	22	4	–	2–2"
C–2	Pāhoa Ave.	4th Ave.	Kīkēkē Ave.	1.5	Silty Gravel	22	4	–	2–2"
C–3	Pāhoa Ave.	Kīkēkē Ave.	5th Ave.	2.25	Sandy Gravel/Clayey Gravel	23	4	–	2–2"
C–4	Pāhoa Ave.	5th Ave.	6th Ave.	2	Sandy Gravel/Clayey Gravel	23	4	–	2–2"
C–5	Pāhoa Ave.	6th Ave.	7th Ave.	1	Silty Gravel	24	4	–	2–2"
C–6	Pāhoa Ave.	6th Ave.	7th Ave.	1	Silty Gravel	24	4	–	2–2"
C–7	Pāhoa Ave.	7th Ave.	8th Ave.	2.25	Clayey Gravel	25	4	–	2–2"
C–8	Pāhoa Ave.	8th Ave.	9th Ave.	4.5	Silty Gravel	25	4	–	2–2"
C–9	Pāhoa Ave.	8th Ave.	9th Ave.	2.75	Note: AC underlain by concrete	26	4	–	2–2"
C–10	Pāhoa Ave.	9th Ave.	10th Ave.	3	Clayey Gravel	27	4	–	2–2"
C–11	18th Ave.	BL Sta. 12+15	Kilauea Ave.	4.75	Silty Gravel	30	2	4	–
C–12	18th Ave.	BL Sta. 5+75	BL Sta. 12+15	5	Silty Gravel	29	2	4	–
C–13	18th Ave.	Diamond Head Rd.	BL Sta. 5+75	4.5	Silty Gravel	28	2	4	–
C–14	Iwalani Pl.	18th Ave.	BL Sta. 5+75	2.5	Sandy Gravel/Silty Gravel	31	4	–	2–2"
C–15	Iwalani Pl.	BL Sta. 5+75	End	4	Sandy Gravel/Silty Gravel	31	2	–	1–2"
C–16	22nd Ave.	BL Sta. 19+00	Kilauea Ave.	5	Silty Gravel	35	2	4	–
C–17	22nd Ave.	BL Sta. 12+75	BL Sta. 19+00	7.5	Silty Gravel	34	2	4	–
C–18	22nd Ave.	BL Sta. 6+50	BL Sta. 12+75	6	Silty Gravel	33	2	4	–
C–19	22nd Ave.	Diamond Head Rd.	BL Sta. 6+50	5	Silty Gravel	32	2	4	–
C–20	Malapua Pl.	22nd Ave.	End	2	Silty Gravel	36	4	–	2–2"
C–21	Ulupua Pl.	22nd Ave.	End	3.5	Silty Gravel	36	4	–	2–2"
C–22	Kulamanu St.	Kahala Ave.	BL Sta. 5+00	3.5	Silty Gravel	37	4	–	2–2"
C–23	Kulamanu St.	Kahala Ave.	BL Sta. 5+00	2.5	Silty Gravel	37	4	–	2–2"
C–24	Kulamanu St.	BL Sta. 5+00	BL Sta. 8+85	2.5	Silty Gravel	38	4	–	2–2"
C–25	Kulamanu Pl.	BL Sta. 1+20	End	2.5	Silty Gravel	39	4	–	2–2"
C–26	Black Point Rd.	Kahala Ave.	BL Sta. 5+25	1	Silty Gravel	40	4	–	2–2"
C–27	Black Point Rd.	Kahala Ave.	BL Sta. 5+25	3.25	Silty Gravel	40	4	–	2–2"
C–28	Black Point Rd.	BL Sta. 5+25	End	2	Silty Gravel	41	4	–	2–2"
C–29	Black Point Rd.	BL Sta. 5+25	End	3	Silty Gravel	41	4	–	2–2"
C–30	Royal Pl.	Kahala Ave.	BL Sta. 5+34	2.25	Silty Gravel	42	4	–	2–2"
C–31	Royal Pl.	Kahala Ave.	BL Sta. 5+34	3	Silty Gravel	42	4	–	2–2"
C–32	Royal Pl.	BL Sta. 5+34	Kahala Ave.	3	Silty Gravel	43	4	–	2–2"
C–33	Sierra Dr.	–	–	9	Clayey Gravel	44	4	–	2–2"

NOTES:

1. BORING AND/OR CORING DATA FURNISHED ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE INFORMATION AND DATA FURNISHED ARE THE PRODUCT OF THE ENGINEER'S INTERPRETATION OF THE FACTS GATHERED IN INVESTIGATIONS MADE AT THE SPECIFIC LOCATIONS INDICATED TO AID IN THE DESIGN OF THE PROJECT. AND THE CITY ASSUMES NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF BORINGS OR OF THE LOG OF TEST BORINGS OR OTHER PRELIMINARY INVESTIGATIONS OR OF THE INTERPRETATION THEREOF, AND THERE IS NO GUARANTY, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE EXISTING THROUGHOUT THE WORK. IN ADDITION, NO ASSURANCE IS GIVEN THAT CONDITIONS FOUND AT THE TIME OF THE SUBSURFACE EXPLORATIONS, SUCH AS THE PRESENCE OR ABSENCE OF WATER, WILL BE THE CONDITIONS THAT PREVAIL AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASSUMPTIONS, DEDUCTIONS, OR CONCLUSIONS THE CONTRACTOR MAY MAKE OR DERIVE FROM THE SUBSURFACE INFORMATION OR DATA FURNISHED.
2. FOR BORING AND/OR CORING LOCATIONS, SEE ROADWAY PLANS.
3. THE INFORMATION PRESENTED IN THE LOGS OF BORINGS AND/OR CORINGS DEPICT THE SUBSURFACE CONDITIONS ENCOUNTERED AT THAT SPECIFIED LOCATION AND AT THE TIME OF FIELD EXPLORATION ONLY. VARIATIONS OF SUBSOIL CONDITIONS FROM THOSE DEPICTED IN THE LOGS OF BORINGS AND/OR CORINGS MAY OCCUR BETWEEN AND BEYOND THE BORINGS AND/OR CORINGS.
4. THE PENETRATION RESISTANCE SHOWN ON THE LOGS OF BORINGS, IF PROVIDED, INDICATE THE NUMBER OF BLOWS REQUIRED FOR THE SPECIFIC SAMPLER TYPE USED. THE BLOW COUNTS MAY NEED TO BE FACTORED TO OBTAIN THE STANDARD PENETRATION TEST (SPT) BLOW COUNTS.
5. THE DATA GIVEN IS FOR GENERAL INFORMATION ONLY. BIDDERS SHALL EXAMINE THE SITE AND THE BORING AND/OR CORING DATA AND DRAW THEIR OWN CONCLUSIONS THEREFROM AS TO THE CHARACTER OF MATERIALS TO BE ENCOUNTERED. THE OFFICER–IN–CHARGE WILL NOT ASSUME RESPONSIBILITY FOR VARIATIONS OF SUBSOIL QUALITY OR CONDITIONS OTHER THAN AT THE BORING AND/OR CORING LOCATIONS SHOWN AND AT THE TIME THE BORINGS AND/OR CORINGS WERE TAKEN.
6. NOT ALL STREETS AND BLOCKS OF STREETS WITHIN THE PROJECT LIMITS HAVE BORING AND/OR CORING DATA.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CORING DATA

DESIGN	KH	APPROVED:	DRAWING NO. C014
DRAWN	MV		SHEET NO. 15
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\15 CORING DATA.DWG
JOB NO. 0-20-024
040125

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\16 GENERAL PLAN.DWG
JOB NO. 0-20-024
051325



LEGEND

(30) ⟨120⟩	SHEET LIMITS, REFERENCE SHEET AND SHEET NUMBER
○	ROADWAY PLAN
⬡	SIGNING AND STRIPING PLAN

GENERAL PLAN

SCALE: 1"=600'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

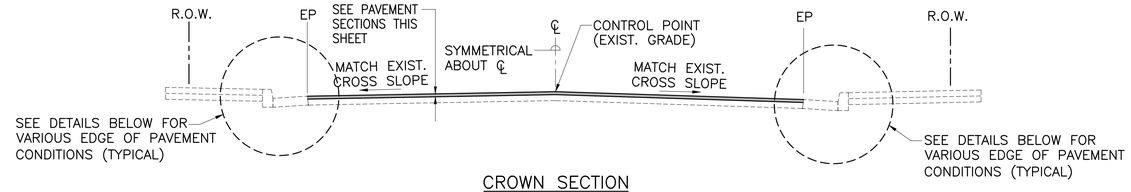
REHABILITATION OF LOCALIZED STREETS - PHASE 26A

HONOLULU, O'AHU, HAWAI'I

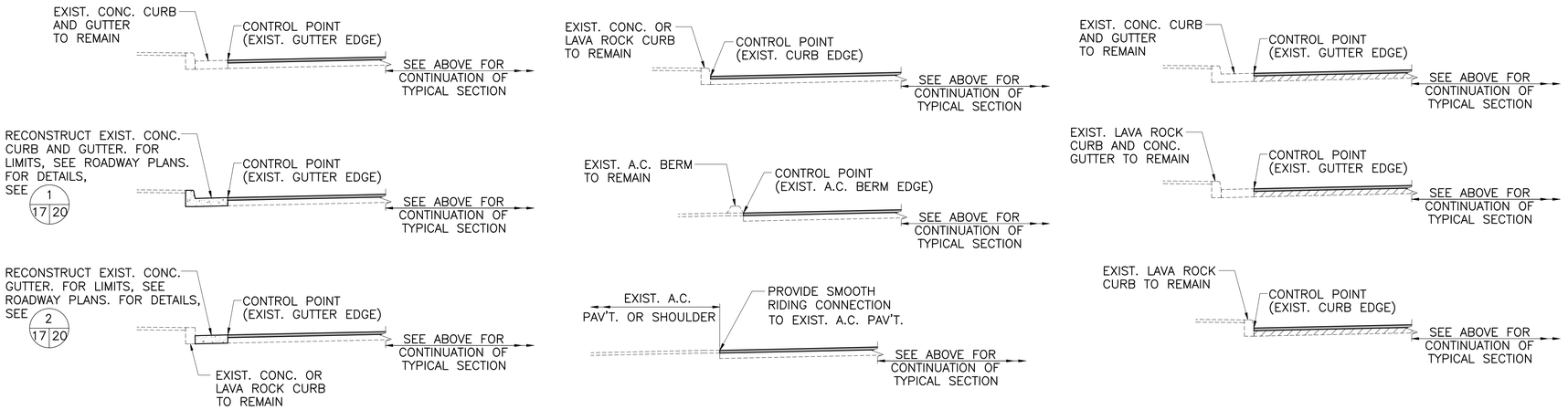
GENERAL PLAN

DESIGN	KH	APPROVED:	DRAWING NO. C015
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 16
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

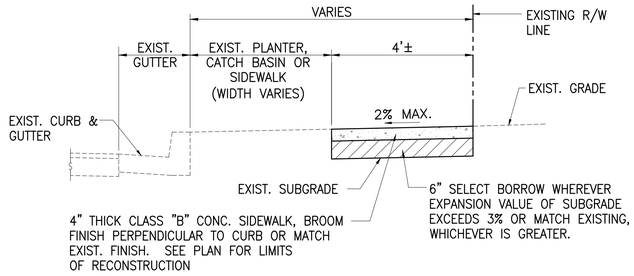


CROWN SECTION



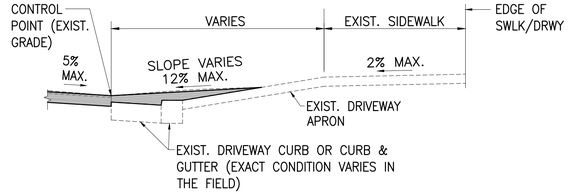
TYPICAL ROAD SECTIONS

SCALE: 1/4"=1'-0"



CONC. SIDEWALK RESTORATION DETAIL

NOT TO SCALE

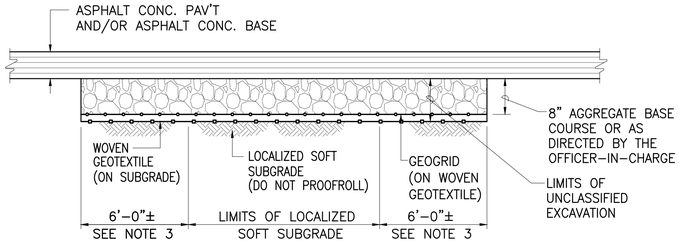


OVERLAY CONCRETE DRIVEWAY

NOT TO SCALE

NOTE:

1. THE CONTRACTOR SHALL REPAVE THE ROADWAY TO MATCH EXISTING ROADWAY GRADES UNLESS SHOWN OTHERWISE ON THE PLANS FOR THE EDGE OF PAVEMENT CONDITIONS. SOME STREETS MAY NOT HAVE EXISTING CROWNS. THE CONTRACTOR SHALL MAINTAIN THE EXISTING ROADWAY GRADES AND DRAINAGE PATTERNS.



SOFT SUBGRADE REPLACEMENT WITH AGGREGATE BASE COURSE DETAIL

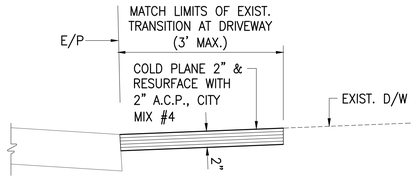
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22-45

NOT TO SCALE

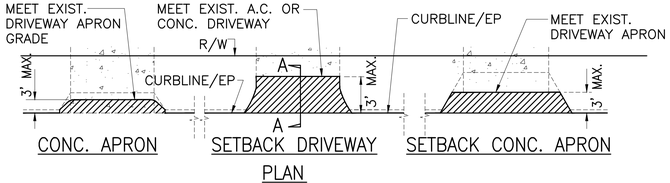
NOTES:

1. THE CONTRACTOR IS TO EXERCISE CAUTION DURING EXCAVATION AND CONSTRUCTION AND SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING UTILITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES AS A RESULT OF THE WORK.
3. EXTEND AGGREGATE BASE COURSE, GEOGRID AND WOVEN GEOTEXTILE 6'-0"± INTO SOUND SUBGRADE, OR AS DIRECTED BY THE OFFICER-IN-CHARGE.
4. SEE SPECIAL PROVISIONS FOR AGGREGATE BASE COURSE, GEOGRID AND WOVEN GEOTEXTILE REQUIREMENTS.
5. FOR DUMPING & SPREADING AGGREGATE FILL, BACK TRUCK UP AND DUMP FILL UPON PREVIOUSLY PLACED FILL. CAUTION SHALL BE TAKEN TO AVOID OVER STRESSING THE SUBGRADE SOIL BOTH DURING AND AFTER FILL PLACEMENT. NO VIBRATING COMPACTION EQUIPMENT SHALL BE USED.



SECTION A-A

NOT TO SCALE



PLAN

TRANSITION AT DRIVEWAYS

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

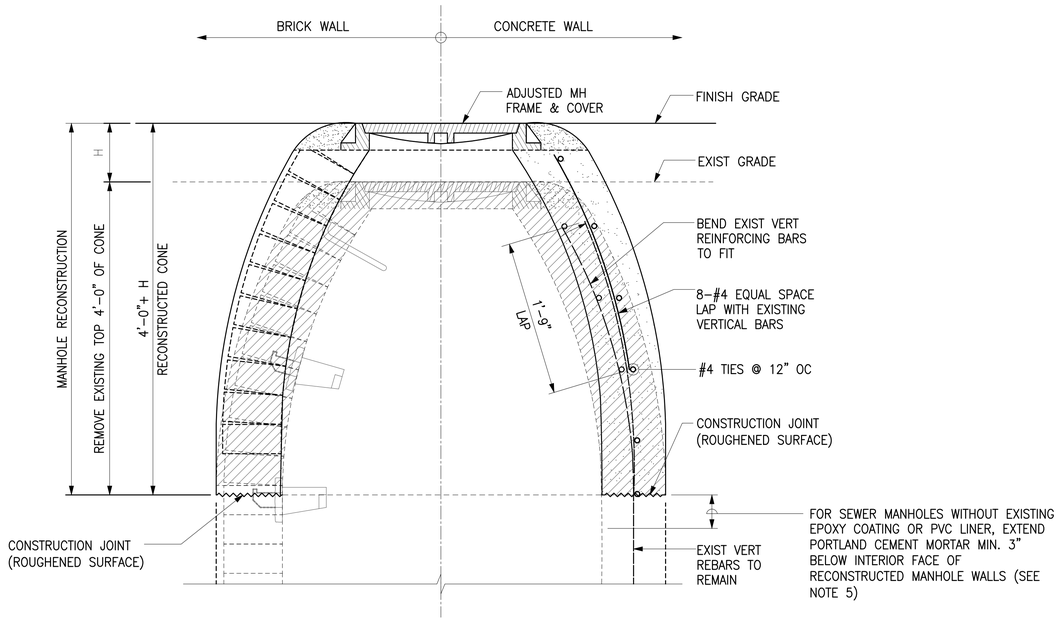
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TYPICAL ROAD SECTIONS AND MISCELLANEOUS DETAILS

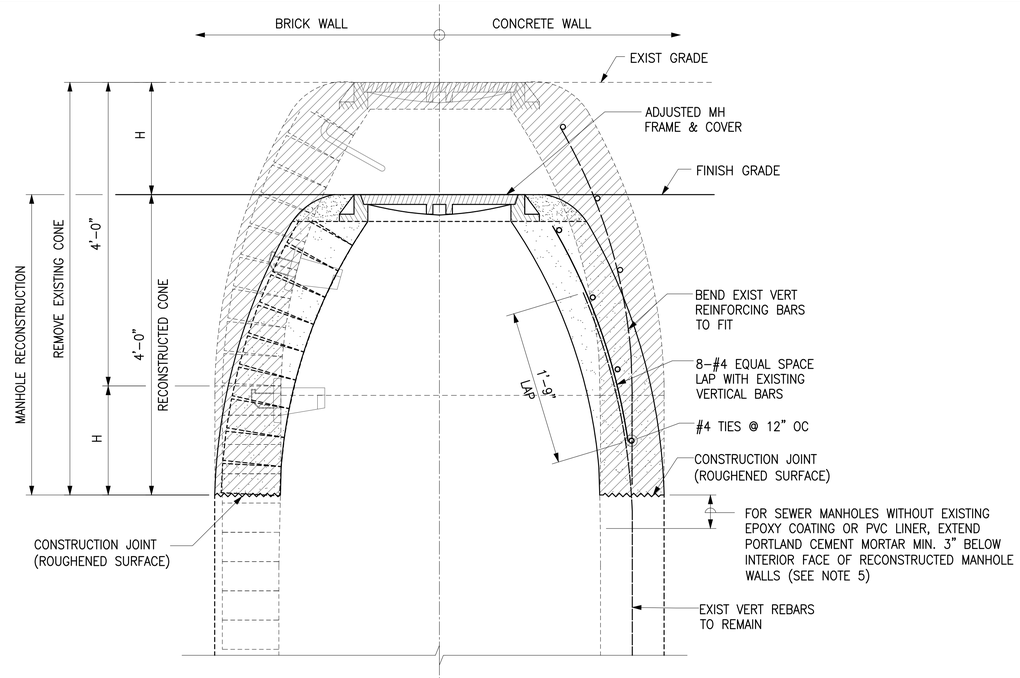
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CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\17 TYPICAL ROAD SECTIONS.DWG
JOB NO. 0-20-024
040125



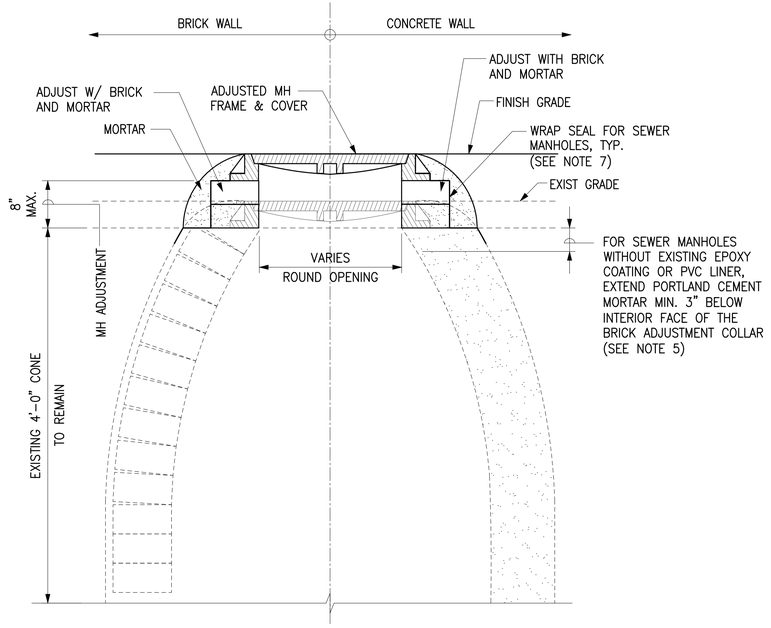
DETAIL A



DETAIL B

RECONSTRUCTION OF EXISTING MANHOLE COVER – CONICAL

NOT TO SCALE
(SEE NOTE 1)



DETAIL C

ADJUSTMENT OF EXISTING MANHOLE COVER – CONICAL

NOT TO SCALE

NOTES:

1. FOR ADJUSTING EXIST. CONICAL MANHOLE COVER
   A. WHEN MH ADJUSTMENT HEIGHT EXCEEDS 8", RECONSTRUCT AS SHOWN IN DETAIL A OR DETAIL B.
   B. FOR CONCRETE WALL, EXPOSE AND RETAIN THE REINFORCING BARS.
2. SEE TYPICAL DETAILS AND STANDARD SPECS OF RESPECTIVE MANHOLE OWNERS/AGENCIES FOR ADDITIONAL REQUIREMENTS.
3. DETAILS SHOWN ARE FOR STANDARD MANHOLES. NOTIFY THE OFFICER-IN-CHARGE IF SPECIAL MANHOLES ARE ENCOUNTERED.
4. NO RUNGS FOR SEWER MANHOLES.
5. FOR SEWER MANHOLES WITHOUT EXISTING EPOXY COATING OR PVC LINER, APPLY MIN. 1/2" THICK LAYER OF PORTLAND CEMENT MORTAR TO ENTIRE INTERIOR FACE OF BRICK COLLAR AND/OR RECONSTRUCTED MANHOLE WALLS. MORTAR SHALL BE BAGGED OR PLASTERED TO A SMOOTH FINISHED SURFACE. EXTEND INTERIOR PORTLAND CEMENT MORTAR MIN. 3" BELOW BRICK ADJUSTMENT COLLAR AND/OR RECONSTRUCTED MANHOLE WALLS. FOR PORTLAND CEMENT MORTAR REQUIREMENTS, SEE CITY & COUNTY OF HONOLULU STANDARD SPECIFICATIONS, SECTION 39.4. NOTE THAT MASTER BUILDERS CO. "O.M." WATER REPELLENT ADMIXTURE PRODUCT HAS BEEN DISCONTINUED. CONTRACTOR SHALL USE "RHEOPEL PLUS MORTAR ADMIXTURE" OR APPROVED SUBSTITUTE, FOLLOWING MANUFACTURER'S RECOMMENDED DOSAGE.
6. FOR SEWER MANHOLES WITH EPOXY COATING OR PVC LINER, NEW EPOXY COATING TO BE APPLIED TO THE INTERIOR FACE OF THE BRICK ADJUSTMENT COLLAR AND/OR RECONSTRUCTED MANHOLE WALLS WILL BE PERFORMED UNDER A SEPARATE CONTRACT.
7. CONTRACTOR SHALL INSTALL WRAP SEAL ON ALL RECONSTRUCTED SEWER MANHOLES, INCLUDING SEWER MANHOLE RECONSTRUCTION REQUIRED DUE TO CONTRACTORS MEANS AND METHODS. CONTRACTOR SHALL USE INFI-SHIELD UNI-BAND, GPT INDUSTRIES RISER WRAP, OR APPROVED SUBSTITUTE.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC. ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

MANHOLE ADJUSTMENT DETAILS - 1

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

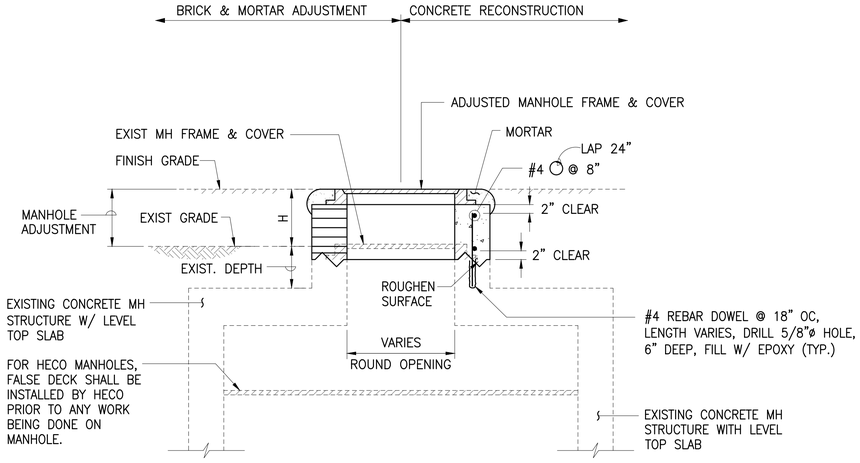
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C017
SHEET NO. 18 OF 105 SHEETS

FILE DRAW FOLDER

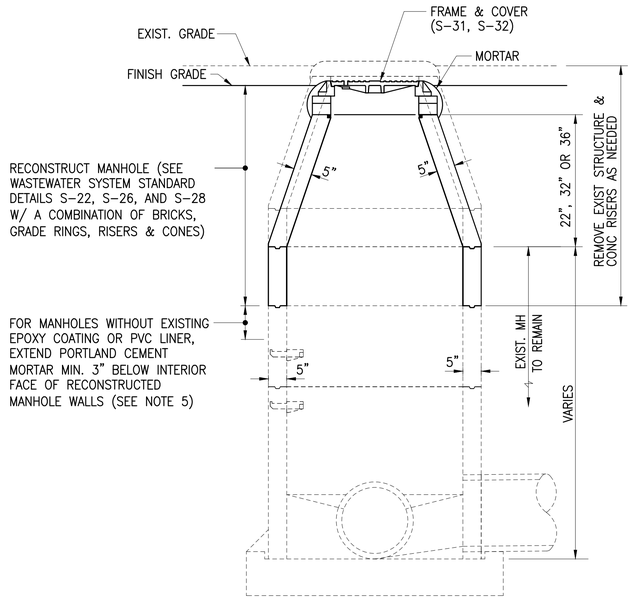
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\18 MANHOLE ADJUSTMENT DETAILS - 1.DWG
JOB NO. 0-20-024
040125



ADJUSTMENT/RECONSTRUCTION OF EXIST. MANHOLE COVER – LEVEL TOP SLAB

NOT TO SCALE
(SEE NOTE 1)



LOWERING OF EXISTING PLAIN PRE-CAST CONCRETE SEWER MANHOLE DETAIL

NOT TO SCALE

NOTES FOR PRE-CAST CONC. SEWER MANHOLE:

1. DETAILS REFERENCE CITY & COUNTY OF HONOLULU WASTEWATER SYSTEM STANDARD DETAILS, DATED JULY 2017.
2. SEE NOTES ON WASTEWATER SYSTEM STANDARD DETAILS S-9 AND S-10.
3. MAY REUSE EXISTING PRECAST SEGMENTS IF SALVAGEABLE AND IN GOOD CONDITION.

NOTES:

1. FOR ADJUSTING EXIST. MANHOLE COVER WITH LEVEL TOP SLAB
   A. CONTRACTOR SHALL PROBE TO DETERMINE EXISTING DEPTH TO TOP SLAB.
   B. FOR 0" < (H + EXIST DEPTH) < 18", ADJUST WITH BRICK AND MORTAR, IF (H + EXIST DEPTH) > 18", ADJUST WITH CONCRETE.
   C. IF EXIST MH IS ALREADY ADJUSTED WITH BRICK AND MORTAR AND (H + EXIST DEPTH) > 18", REMOVE EXIST BRICKS AND ADJUST WITH CONCRETE.
2. SEE TYPICAL DETAILS AND STANDARD SPECS OF RESPECTIVE MANHOLE OWNERS/AGENCIES FOR ADDITIONAL REQUIREMENTS.
3. DETAILS SHOWN ARE FOR STANDARD MANHOLES. NOTIFY THE OFFICER-IN-CHARGE IF SPECIAL MANHOLES ARE ENCOUNTERED.
4. NO RUNGS FOR SEWER MANHOLES.
5. FOR SEWER MANHOLES WITHOUT EXISTING EPOXY COATING OR PVC LINER, APPLY MIN. 1/2" THICK LAYER OF PORTLAND CEMENT MORTAR TO ENTIRE INTERIOR FACE OF RECONSTRUCTED MANHOLE WALLS. MORTAR SHALL BE BAGGED OR PLASTERED TO A SMOOTH FINISHED SURFACE. EXTEND INTERIOR PORTLAND CEMENT MORTAR MIN. 3" BELOW RECONSTRUCTED MANHOLE WALLS. FOR PORTLAND CEMENT MORTAR REQUIREMENTS, SEE CITY & COUNTY OF HONOLULU STANDARD SPECIFICATIONS, SECTION 39.4. NOTE THAT MASTER BUILDERS CO. "O.M." WATER REPELLENT ADMIXTURE PRODUCT HAS BEEN DISCONTINUED. CONTRACTOR SHALL USE "RHEOPEL PLUS MORTAR ADMIXTURE" OR APPROVED SUBSTITUTE, FOLLOWING MANUFACTURER'S RECOMMENDED DOSAGE.
6. FOR SEWER MANHOLES WITH EPOXY COATING OR PVC LINER, NEW EPOXY COATING TO BE APPLIED TO THE INTERIOR FACE OF THE RECONSTRUCTED MANHOLE WALLS WILL BE PERFORMED UNDER A SEPARATE CONTRACT.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

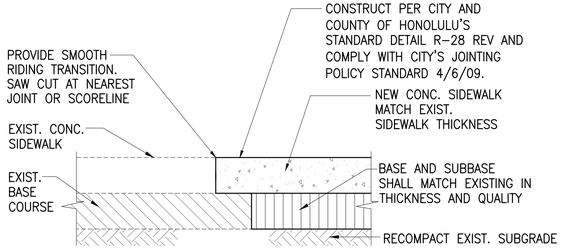
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

MANHOLE ADJUSTMENT DETAILS - 2

DESIGN	KH	APPROVED:	DRAWING NO. C018
DRAWN	MV		SHEET NO. 19
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

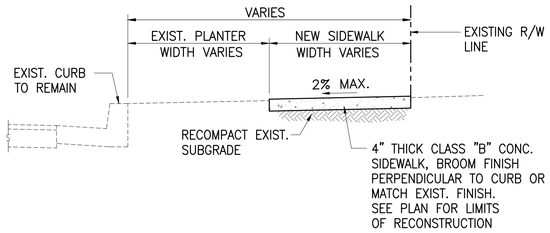
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Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\19 MANHOLE ADJUSTMENT DETAILS - 2.DWG
JOB NO. 0-20-024
040125



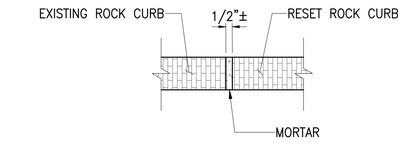
CONCRETE SIDEWALK CONNECTION DETAIL

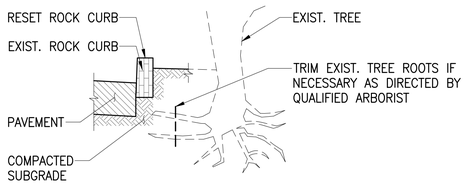
NOT TO SCALE



CONC. SIDEWALK RECONSTRUCTION DETAIL

NOT TO SCALE



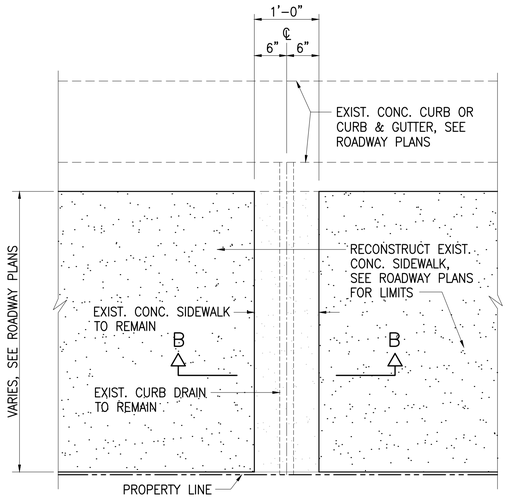


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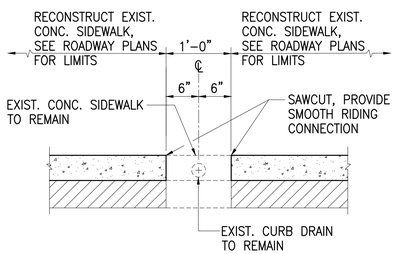
1. ROCK CURB SHALL BE PLACED ON COMPACTED SUBGRADE, WELL BEDDED AND TRUE TO THE ESTABLISHED LINE AND GRADE. THE JOINTS BETWEEN BLOCK SHALL BE 1/2 INCH WIDE. THE JOINTS SHALL BE FILLED WITH MORTAR FOR FULL DEPTH.
2. FOR EXISTING ROCK CURBS IN POOR CONDITIONS, CONTRACTOR SHALL COORDINATE REPLACEMENT OF EXISTING ROCK CURBS WITH THE DIVISION OF ROAD MAINTENANCE. CONTACT THE HONOLULU DISTRICT SUPERINTENDENT AT (808) 768-3832 TO ARRANGE DELIVERY/ PICK UP OF ROCK CURBS FROM THE STOCKPILE SITE AT HOOKELA PLACE ON SAND ISLAND. ALL DAMAGED CURBS SHALL BE REMOVED, SALVAGED, AND DELIVERED TO THE STOCKPILE SITE.
3. THE CONTRACTOR SHALL CONTACT THE URBAN FORESTRY ADMINISTRATOR, DEPARTMENT OF PARKS AND RECREATION (DPR) (808) 971-7151 TO SCHEDULE INSPECTION OF THE TREE TRIMMING. NOTIFICATION SHALL BE GIVEN AT LEAST (7) DAYS PRIOR TO COMMENCEMENT OF WORK.

RESETTING/REMOVING/REPLACING EXISTING ROCK CURB

NOT TO SCALE



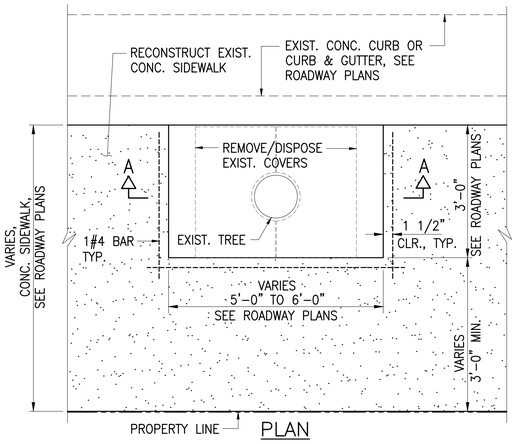
PLAN



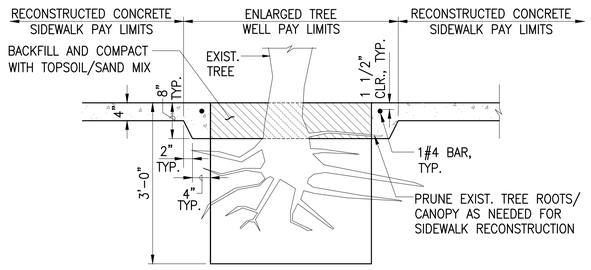
SECTION B-B

RECONSTRUCT CONC. SIDEWALK AT EXIST. CURB DRAIN DETAIL

NOT TO SCALE



PLAN



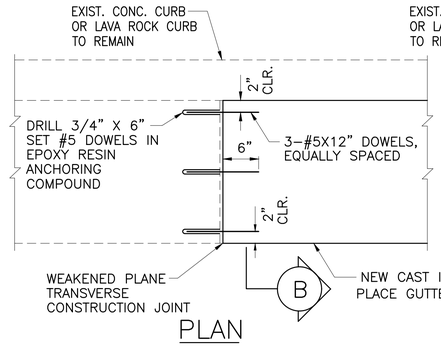
SECTION A-A

NOTES:

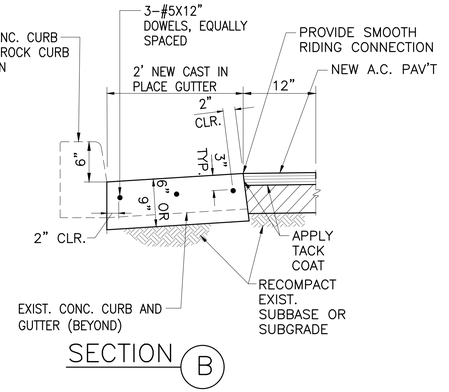
1. PRUNING OF EXISTING TREE ROOTS/ CANOPY WILL BE CONSIDERED INCLUDED IN ENLARGED TREE WELL PAY ITEM.
2. TOPSOIL/ SAND MIX SHALL BE APPROXIMATELY 2 PARTS TOPSOIL TO 1 PART SAND. BACKFILL WORK WILL BE CONSIDERED INCLUDED IN ENLARGED TREE WELL PAY ITEM.

ENLARGED TREE WELL DETAIL

NOT TO SCALE



PLAN



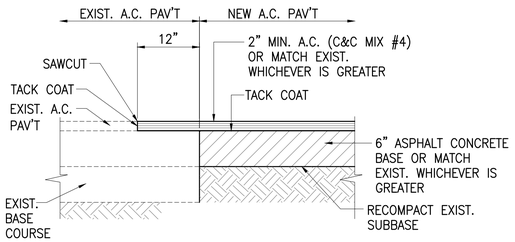
SECTION B

EXIST. CONC. GUTTER TO NEW CONC GUTTER CONNECTION DETAIL

2 | 73 | 20

75,78,

NOT TO SCALE



A.C. PAVEMENT TRANSITION DETAIL

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

MISCELLANEOUS DETAILS - 1

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC. ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

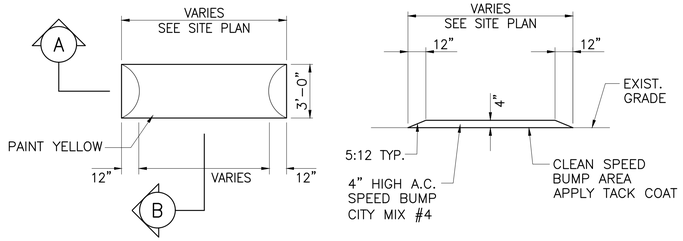
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C019
SHEET NO. 20 OF 105 SHEETS

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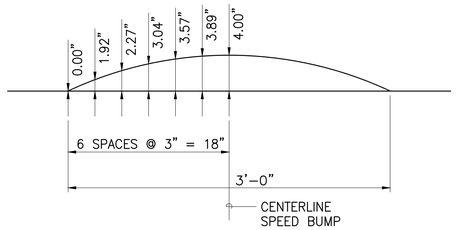
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E)\ NIKKI\DWG\20 MISCELLANEOUS DETAILS - 1.DWG
JOB NO. 0-20-024
040125



TYPICAL PLAN

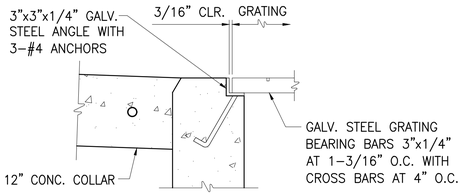
SECTION A



SECTION B

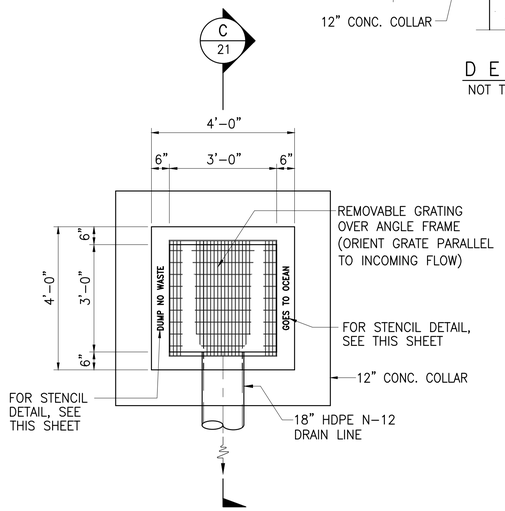
TYPICAL SPEED BUMP DETAIL

NOT TO SCALE

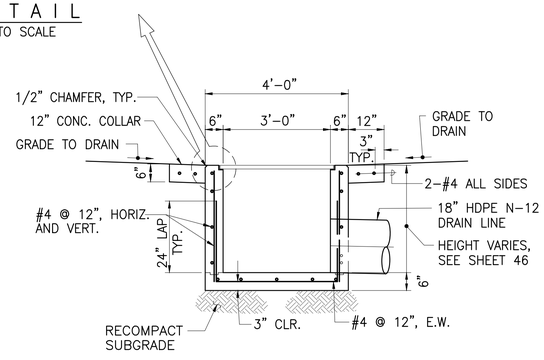


D E T A I L

NOT TO SCALE



PLAN



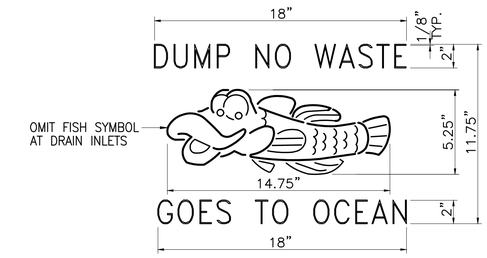
SECTION C 21

3' x 3' DRAIN INLET DETAIL

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

GENERAL NOTES:

1. CONCRETE SHALL BE DPW CLASS "B". REBAR TO BE fy = 60 KSI GRADE.
2. GALVANIZE ALL EXPOSED METAL AFTER FABRICATION.
3. SHOP DRAWINGS FOR GRATING SEAT SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR HAS THE OPTION OF USING CAST NODULAR IRON, CAST STEEL, WELDED, BOLTED OR CAST END BLOCK GRATE.
5. GRATES AND FRAMES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
6. ROUNDED TOP OF BARS OPTIONAL ON ALL GRATES.



SPECIFICATIONS

MATERIALS: ALUMINUM ALLOY (CAST ALUMINUM), LEAD, OR EQUAL

LETTERING: HEIGHT OF LETTERS SHALL BE 2" HIGH AND 1/8" WIDE. THE UNDER SIDE OF ALL LETTERING SHALL BE V-SHAPED.

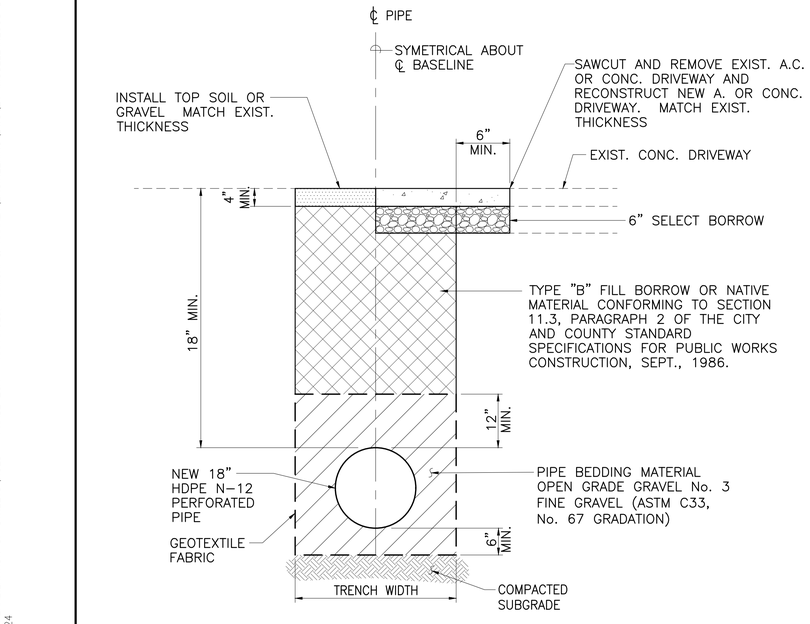
LINE WORK: ALL LINE WORK FOR THE FISH DIAGRAM SHALL BE MADE OUT OF 1/8" THICK. THE UNDER SIDE OF THE LINE WORK SHALL BE V-SHAPED.

PLACEMENT: THE STENCIL SHALL BE CENTERED ON THE TOP DECK OF THE CATCH BASIN AND SHALL BE A MINIMUM OF 3" AWAY FROM THE FRONT FACE OF THE INLET.

IMPRESSION: THE STENCIL SHALL BE PRESSED 1/4" INTO THE GREEN CONCRETE WHEN THE INLET IS MADE.

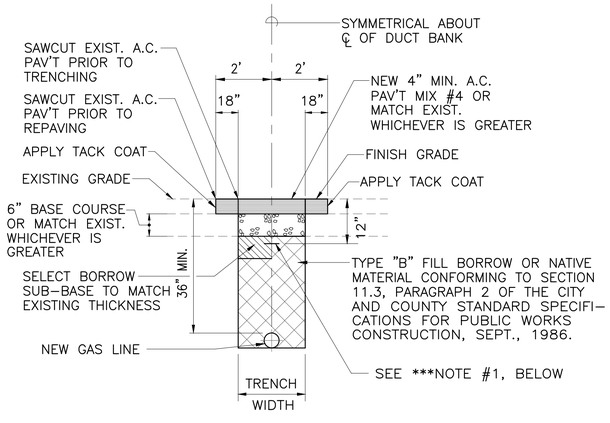
STENCIL DESIGN FOR CATCH BASIN AND DRAIN INLET

NOT TO SCALE



TRENCH RESTORATION DETAIL

NOT TO SCALE

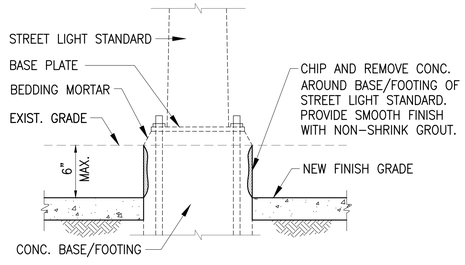


***NOTE:
1. INSTALL 8 MIL. THICK WARNING TAPE 4" WIDE, ENTIRE LENGTH OF TRENCH. TAPE SHOULD READ "WARNING – STOP DIGGING – CALL THE GAS COMPANY. GAS LINE BELOW. FAILURE TO COMPLY COULD RESULT IN LEGAL LEGAL ACTION" OR EQUIVALENT TAPE.

(CITY RIGHT OF WAY)

TRENCH RESTORATION DETAIL

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



TYP. STREET LIGHT STANDARD BASE RESTORATION DETAIL

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC. ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

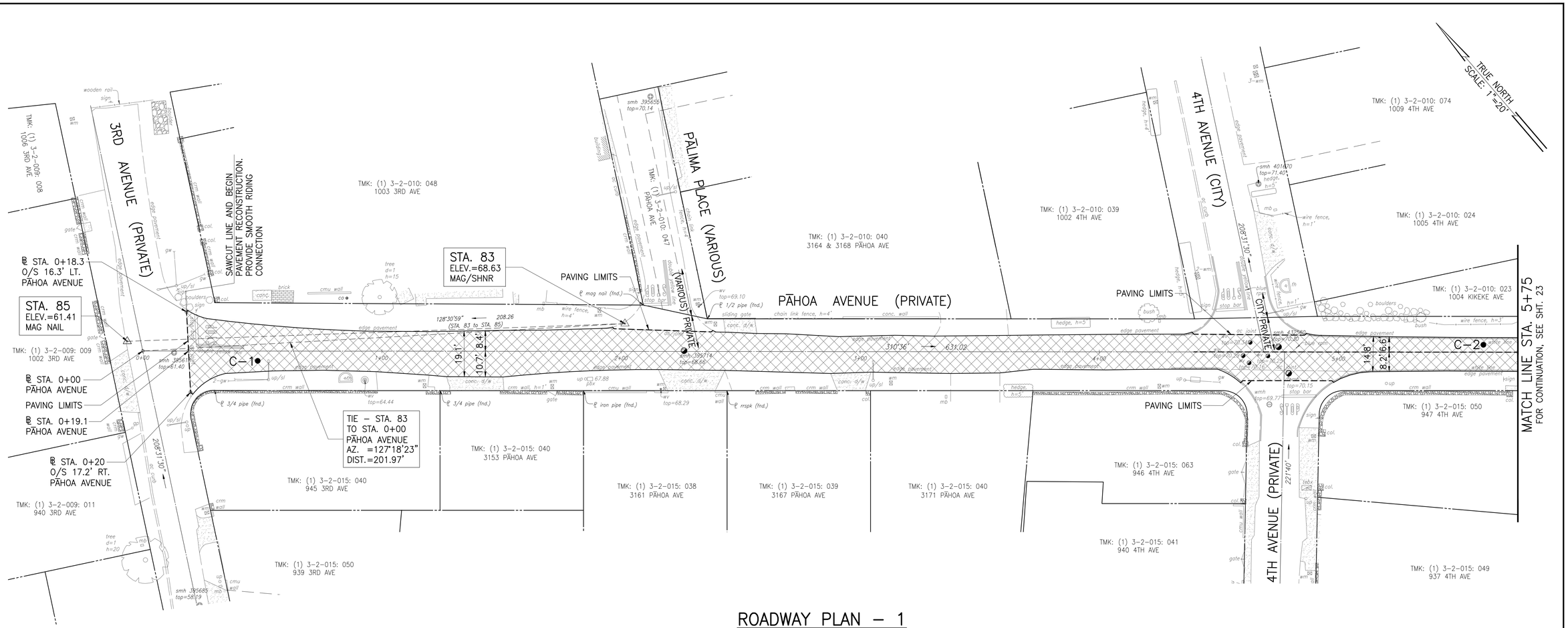
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

MISCELLANEOUS DETAILS - 2

DESIGN	KH	APPROVED:	DRAWING NO. C020
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 21
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\21 MISCELLANEOUS DETAILS - 2.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 1
PĀHOA AVENUE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
3. RESTORE AREAS OUTSIDE OF LIMITS OF REPAVING DISTURBED BY CONSTRUCTION WORK TO ORIGINAL CONDITION.
4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.
6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS · SURVEYORS · HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 1
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

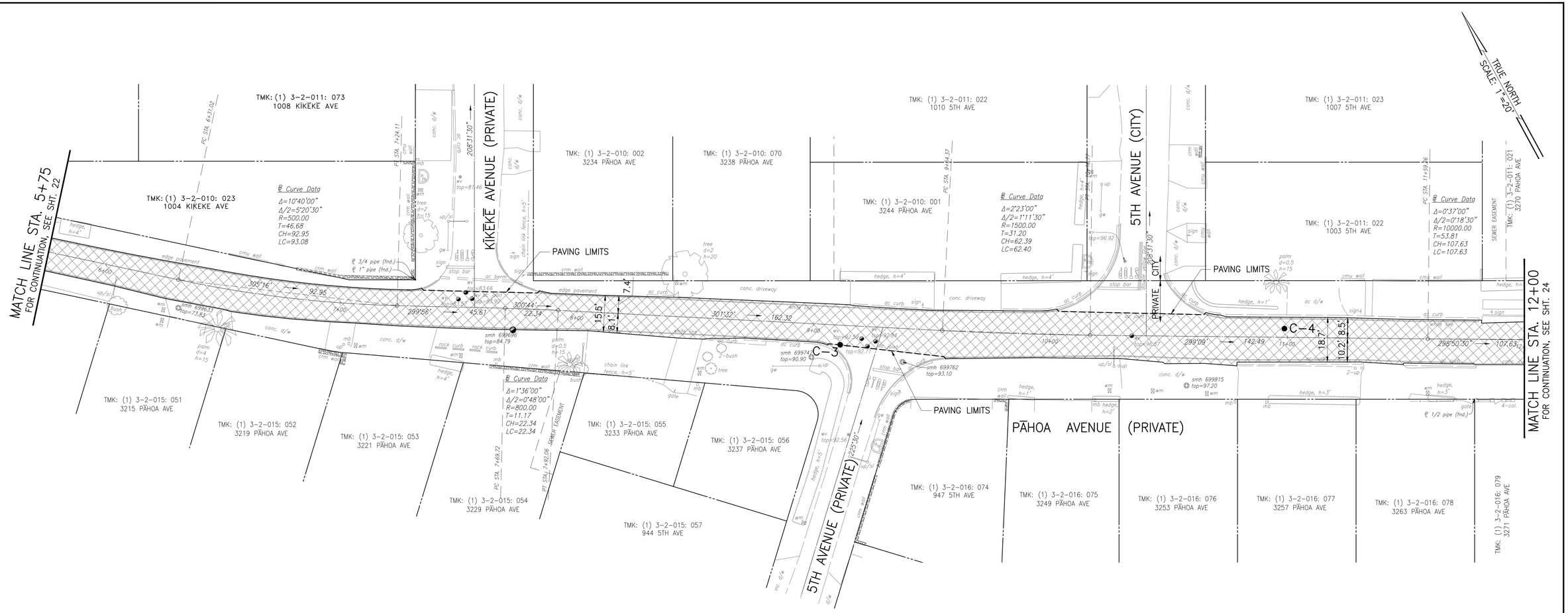
APPROVED:
CHIEF, CIVIL DIVISION, DDC — DATE

DRAWING NO. C021
SHEET NO. 22 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\22 ROADWAY PLAN - 1 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 2
PĀHOA AVENUE

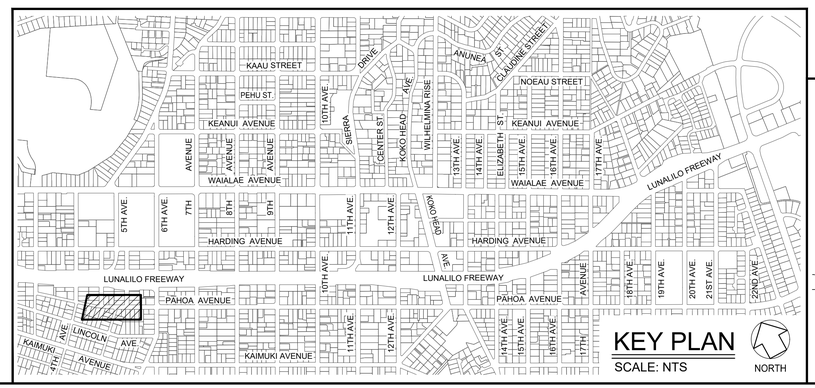
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 — APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 2
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

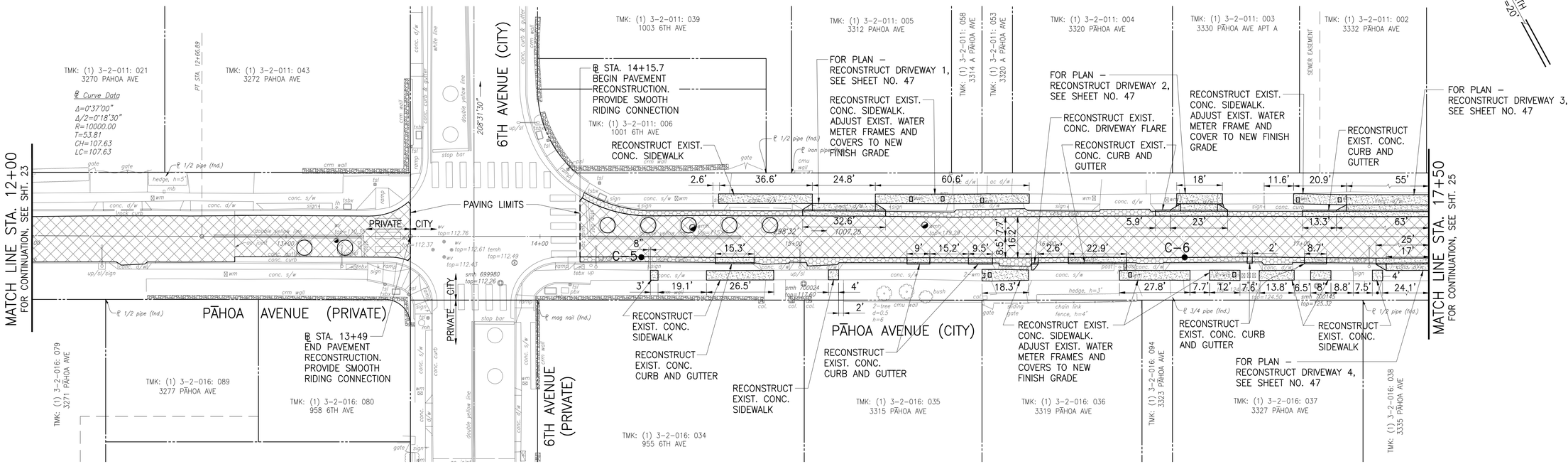
DRAWING NO. C022

SHEET NO. 23 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\23 ROADWAY PLAN - JOB NO. 0-20-024 051325



ROADWAY PLAN – 3
PĀHOA AVENUE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- REMOVE EXIST. A.C. PAVEMENT OVERLAY TO EXPOSE GUTTER
- RECONSTRUCT EXIST. CONC. DRIVEWAY, SIDEWALK AND/OR EXIST. CURB
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
3. RESTORE AREAS OUTSIDE OF LIMITS OF REPAVING DISTURBED BY CONSTRUCTION WORK TO ORIGINAL CONDITION.
4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.
6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

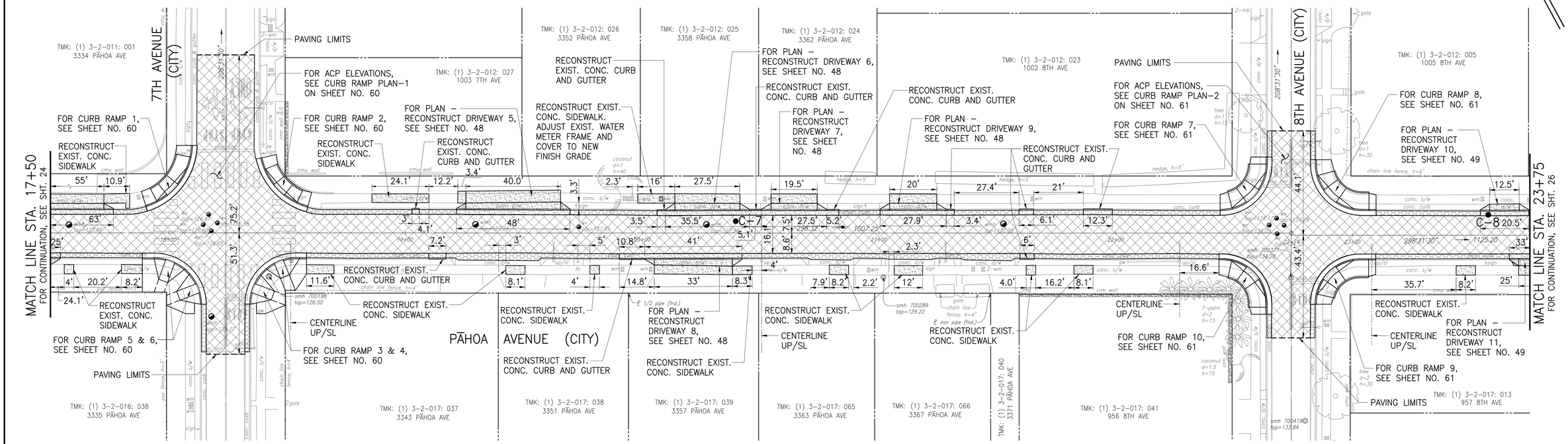
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 3
PĀHOA AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C023
DRAWN	MV		SHEET NO. 24
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\24 ROADWAY PLAN - 3 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 4
PĀHOA AVENUE

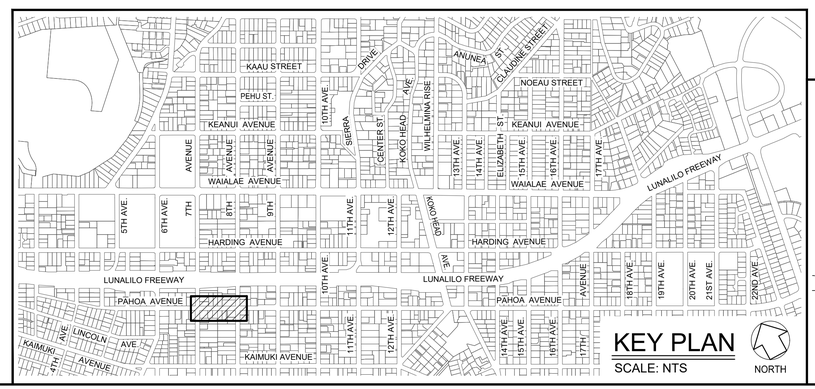
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- REMOVE EXIST. A.C. PAVEMENT OVERLAY TO EXPOSE GUTTER
- RECONSTRUCT EXIST. CONC. DRIVEWAY, SIDEWALK AND/OR EXIST. CURB
- REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C–15 APPROXIMATE CORING LOCATION AND NUMBER
- ------ PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS
HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 4
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

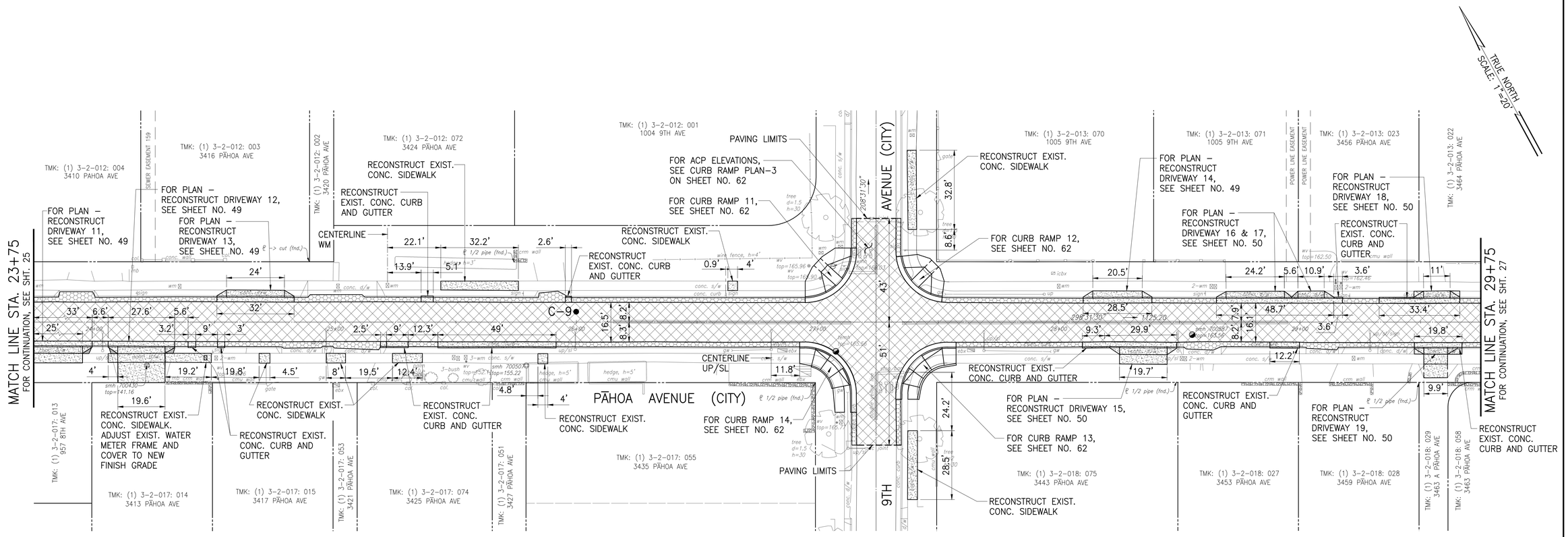
DRAWING NO. C024

SHEET NO. 25 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\25 ROADWAY PLAN – 4 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



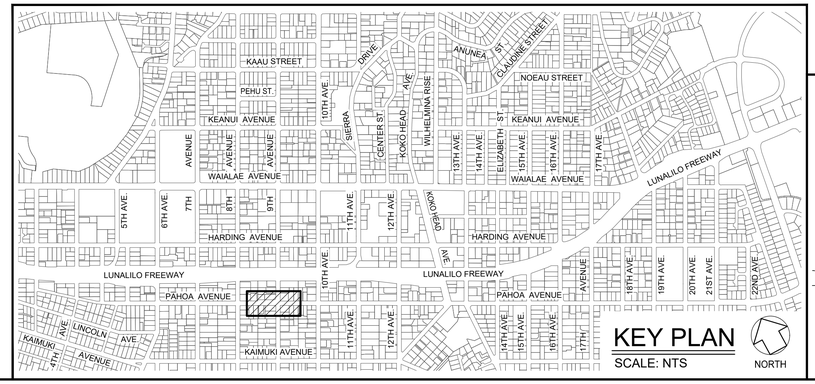
ROADWAY PLAN – 5
PĀHOA AVENUE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- REMOVE EXIST. A.C. PAVEMENT OVERLAY TO EXPOSE GUTTER
- RECONSTRUCT EXIST. CONC. DRIVEWAY, SIDEWALK AND/OR EXIST. CURB
- REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 5
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

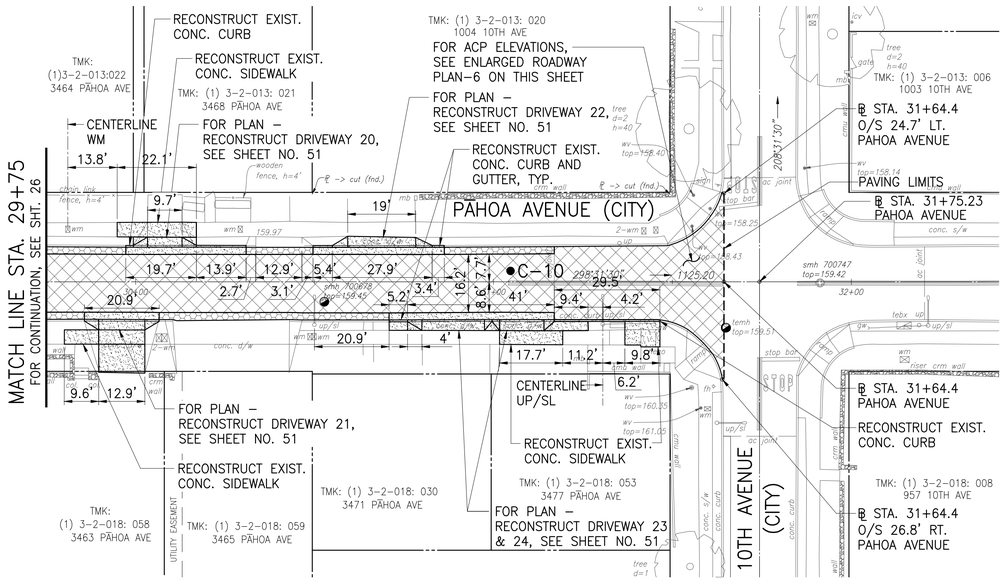
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C025
SHEET NO. 26 OF 105 SHEETS

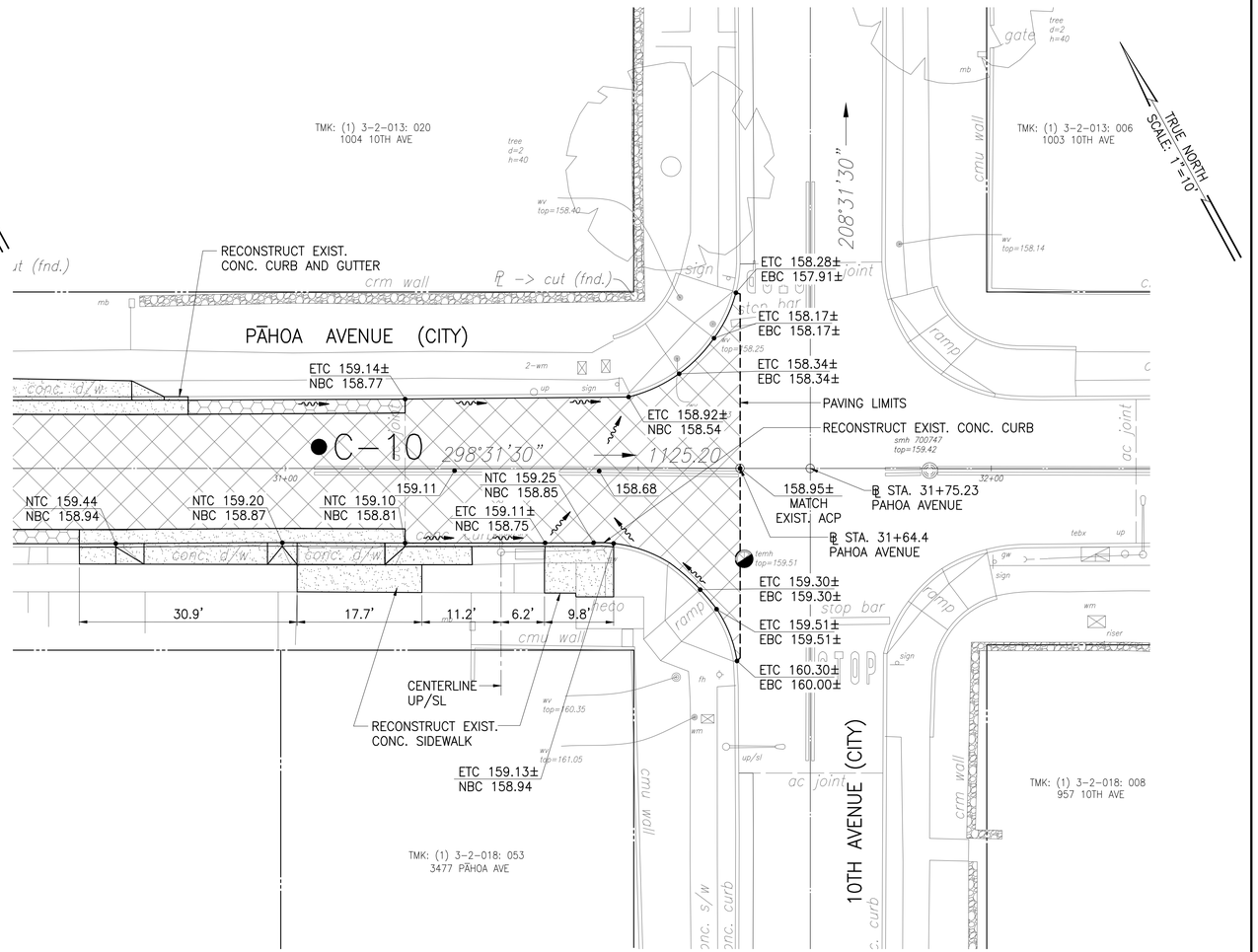
FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\26 ROADWAY PLAN - 5 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 6
PĀHOA AVENUE
SCALE: 1"=20'



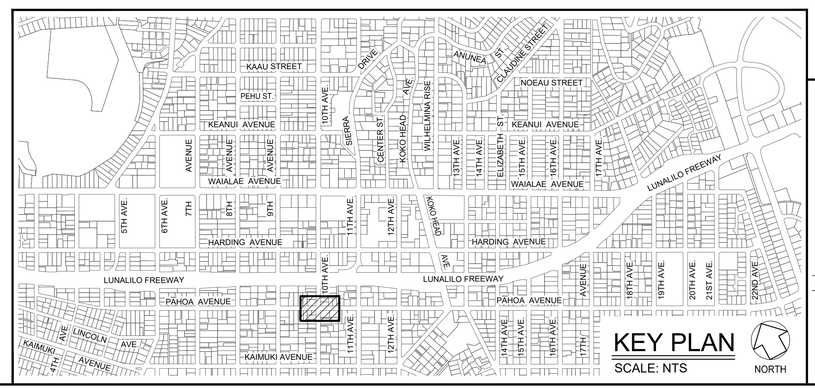
ENLARGED ROADWAY PLAN – 6
PĀHOA AVENUE
SCALE: 1"=10'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- REMOVE EXIST. A.C. PAVEMENT OVERLAY TO EXPOSE GUTTER
- RECONSTRUCT EXIST. CONC. DRIVEWAY, SIDEWALK AND/OR EXIST. CURB
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C–15 APPROXIMATE CORING LOCATION AND NUMBER
- ------- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 6
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

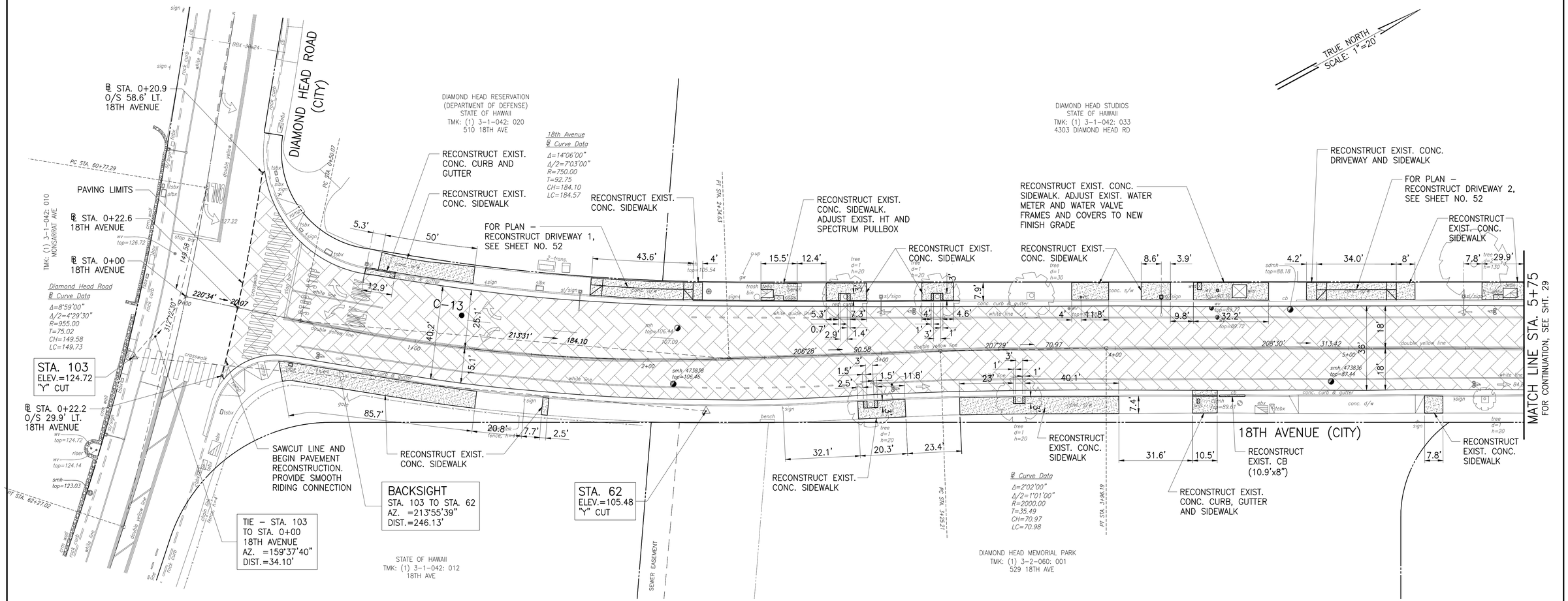
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C026
SHEET NO. 27 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\27 ROADWAY PLAN – 6 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 7
18TH AVENUE

SCALE: 1"=20'

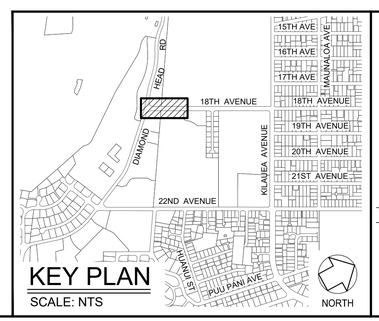
LEGEND

- RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
- RECONSTRUCT EXIST. CONC. SIDEWALK, EXIST. CURB AND/OR GUTTER
- REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C-15 APPROXIMATE CORING LOCATION AND NUMBER
- ------ PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
3. RESTORE AREAS OUTSIDE OF LIMITS OF REPAVING DISTURBED BY CONSTRUCTION WORK TO ORIGINAL CONDITION.
4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. REMOVE AND DISPOSE OF EXISTING TREE COLLARS.
6. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
7. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS SURVEYORS HONOLULU HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

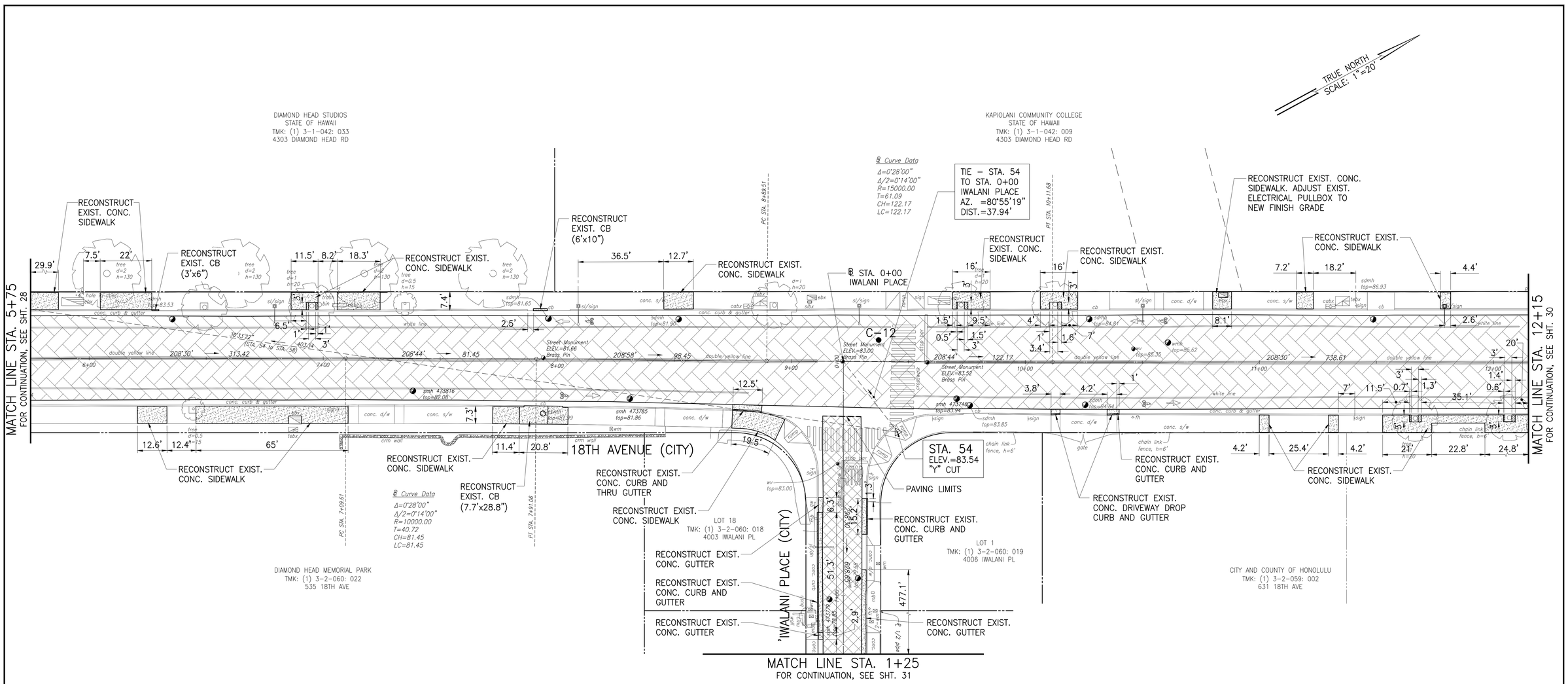
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 7
18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C027
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 28
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\28 ROADWAY PLAN - 7 18TH AVENUE.DWG
JOB NO. 0-20-024
051325



LEGEND

- RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- RECONSTRUCT EXIST. CONC. SIDEWALK, EXIST. CURB AND/OR GUTTER
- REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C-15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

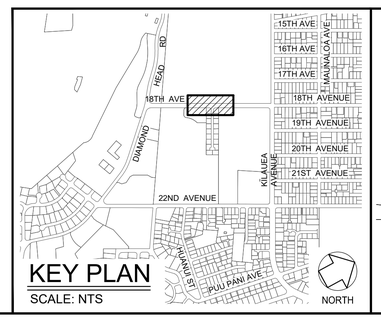
NOTES:

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5. REMOVE AND DISPOSE OF EXISTING TREE COLLARS.
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ROADWAY PLAN – 8
18TH AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 8
18TH AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

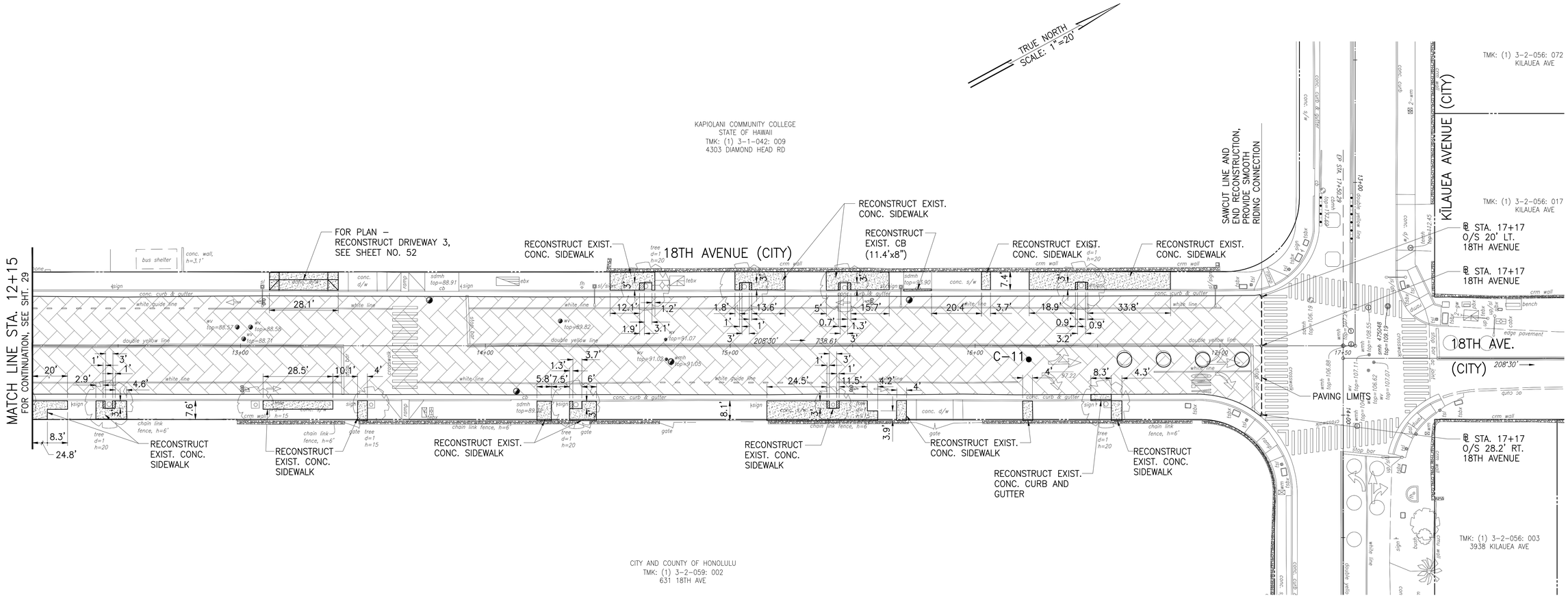
DRAWING NO. C028

SHEET NO. 29 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\29 ROADWAY PLAN – 8 18TH AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 9
18TH AVENUE

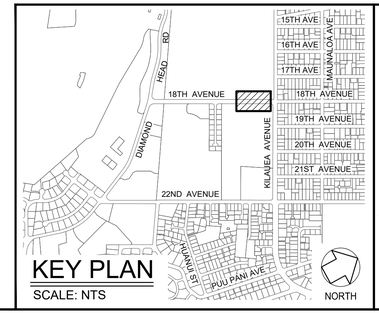
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
- RECONSTRUCT EXIST. CONC. SIDEWALK, EXIST. CURB AND/OR GUTTER
- REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C-15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

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KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • SURVEYORS
HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

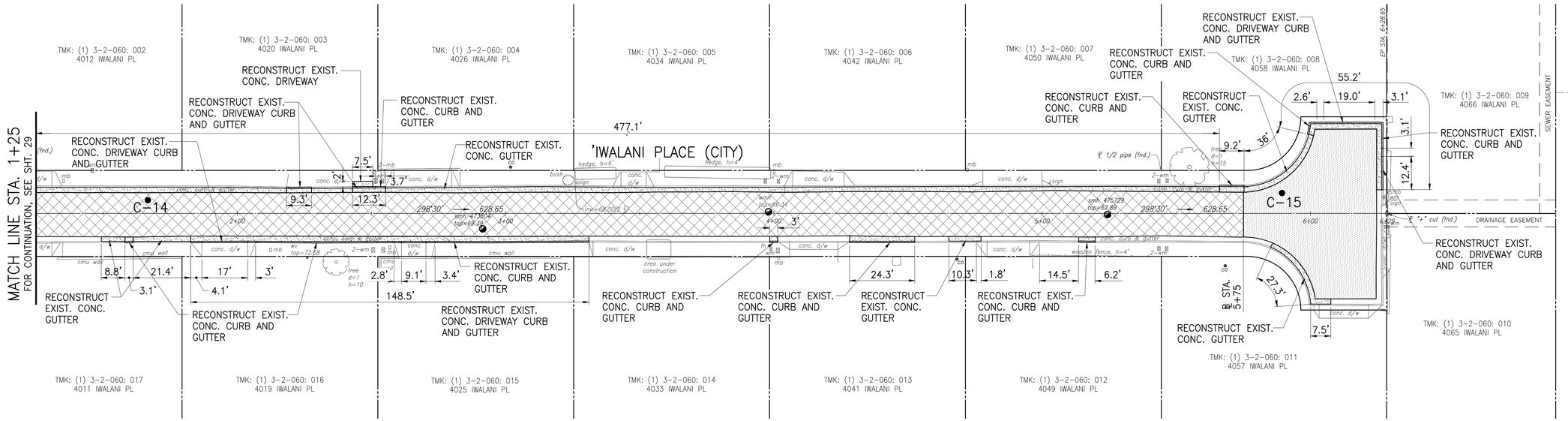
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 9
18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C029
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 30 OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\30 ROADWAY PLAN - 9 18TH AVENUE.DWG
JOB NO. 0-20-024
051325



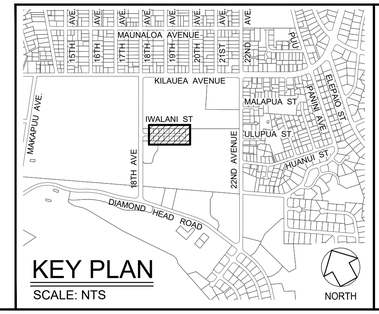
ROADWAY PLAN – 10
IWALANI PLACE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- RESURFACING AREA (2" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, CITY MIX #4, 1–2" LIFT)
- RECONSTRUCT EXIST. CONC. CURB AND/OR GUTTER
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 10
IWALANI PLACE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

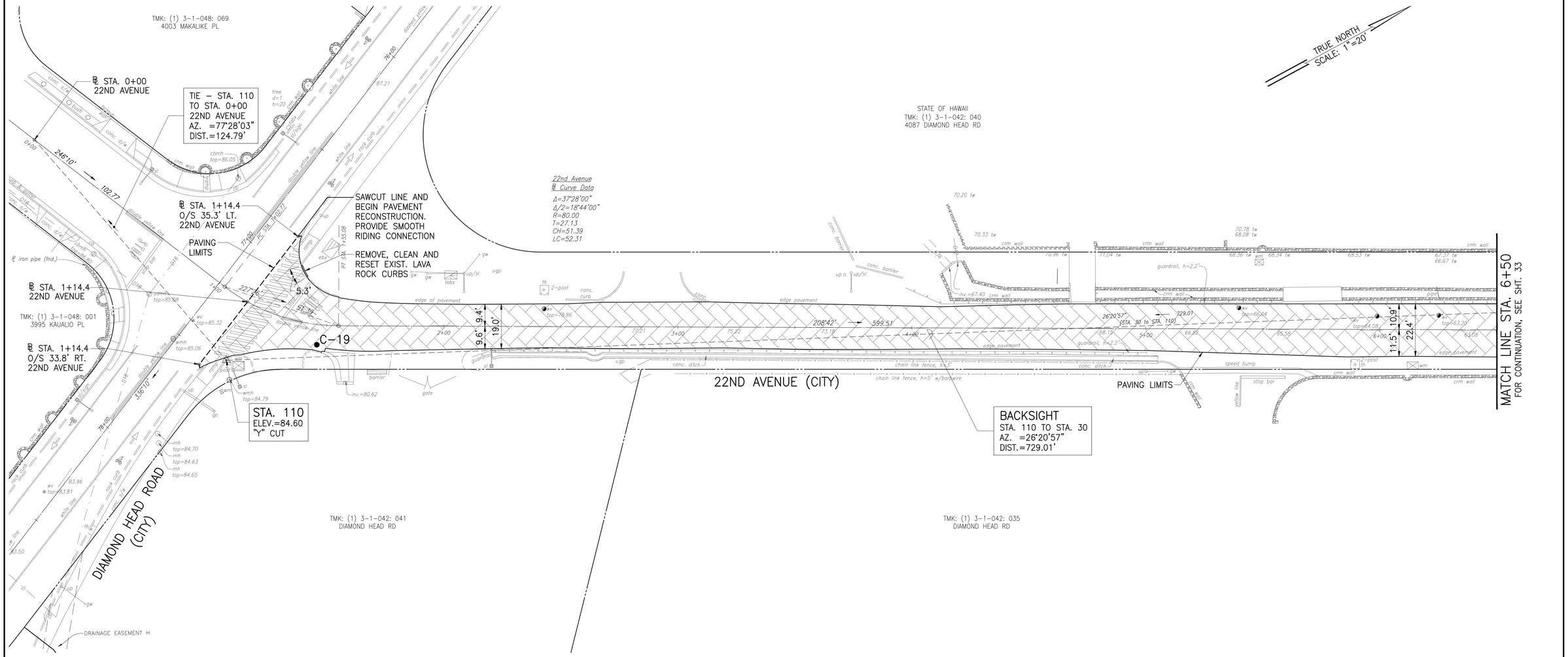
APPROVED:
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C030
SHEET NO. 31 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\31 ROADWAY PLAN - 10 IWALANI PLACE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 11
22ND AVENUE

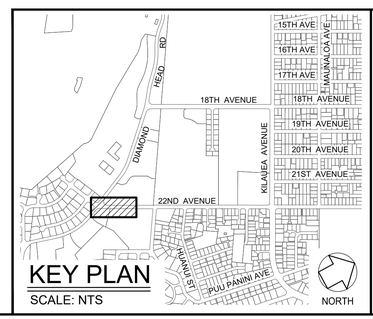
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

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KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

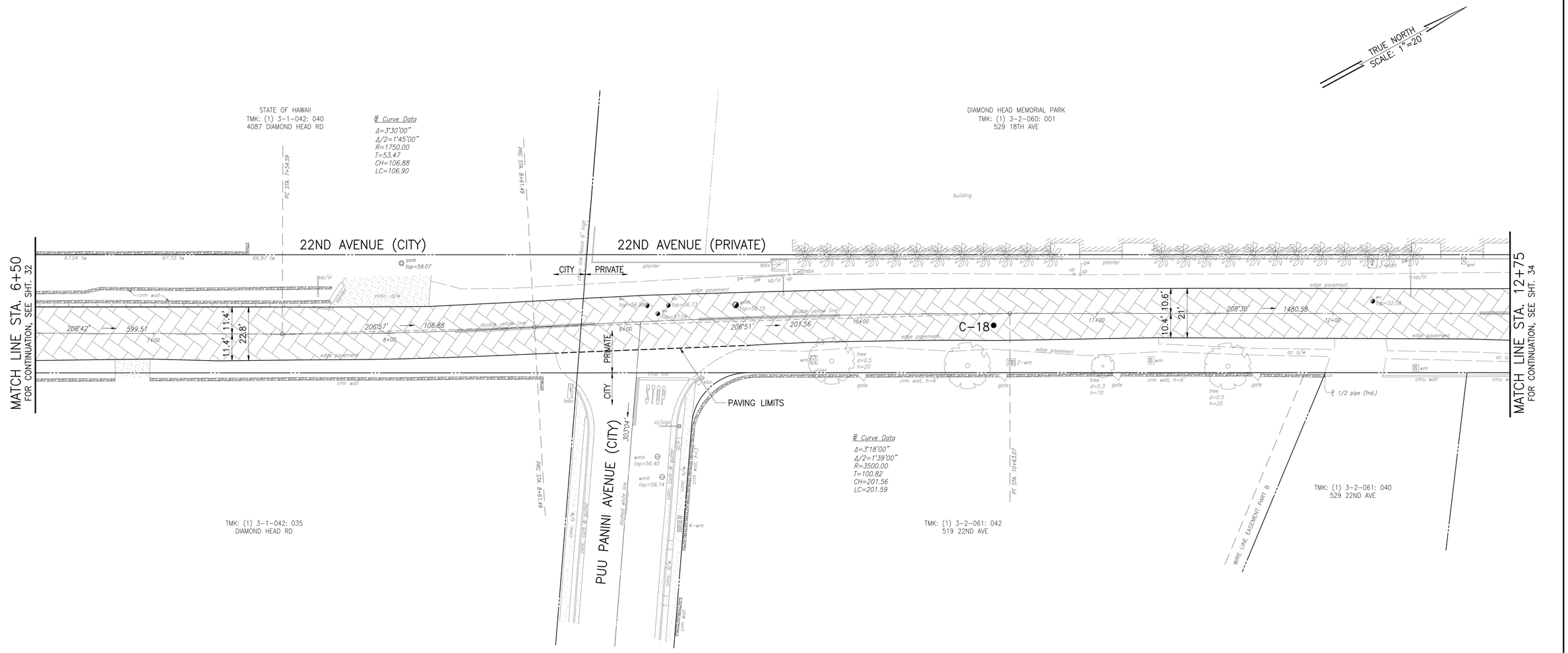
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 11
22ND AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C031
DRAWN	MV		SHEET NO. 32
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\32 ROADWAY PLAN - 11 22ND AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 12
22ND AVENUE

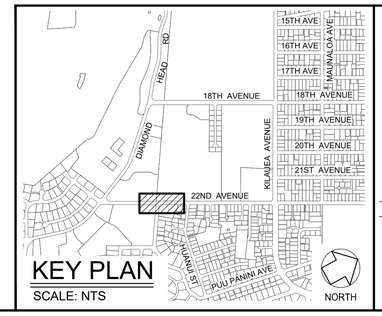
SCALE: 1"=20'

LEGEND

	RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
	ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
● C–15	APPROXIMATE CORING LOCATION AND NUMBER
------	PAVING LIMITS OR STREET PAY LIMITS

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KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

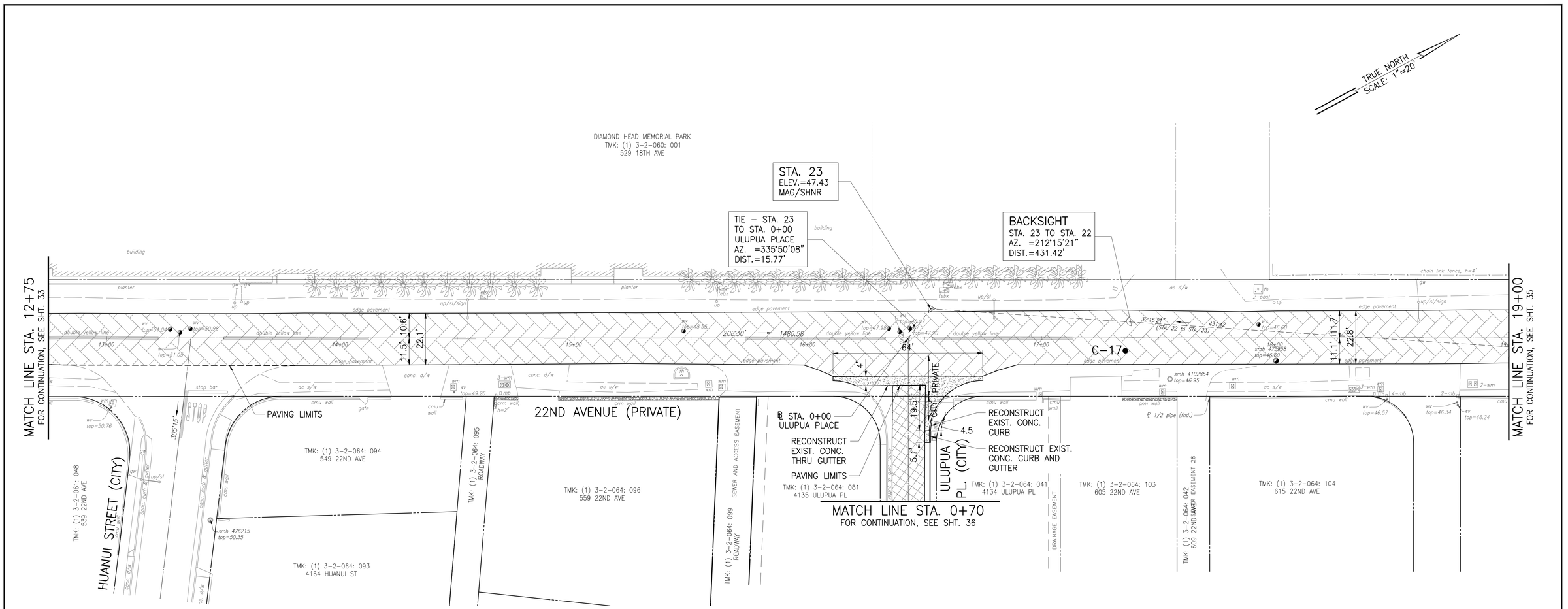
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 12
22ND AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C032
DRAWN	MV		SHEET NO. 33
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\33 ROADWAY PLAN - 12 22ND AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 13
22ND AVENUE

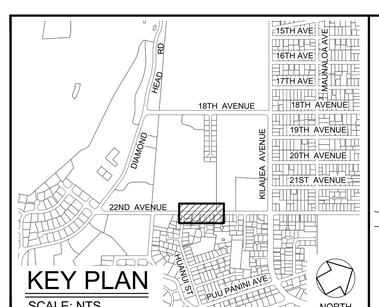
SCALE: 1"=20'

LEGEND

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KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

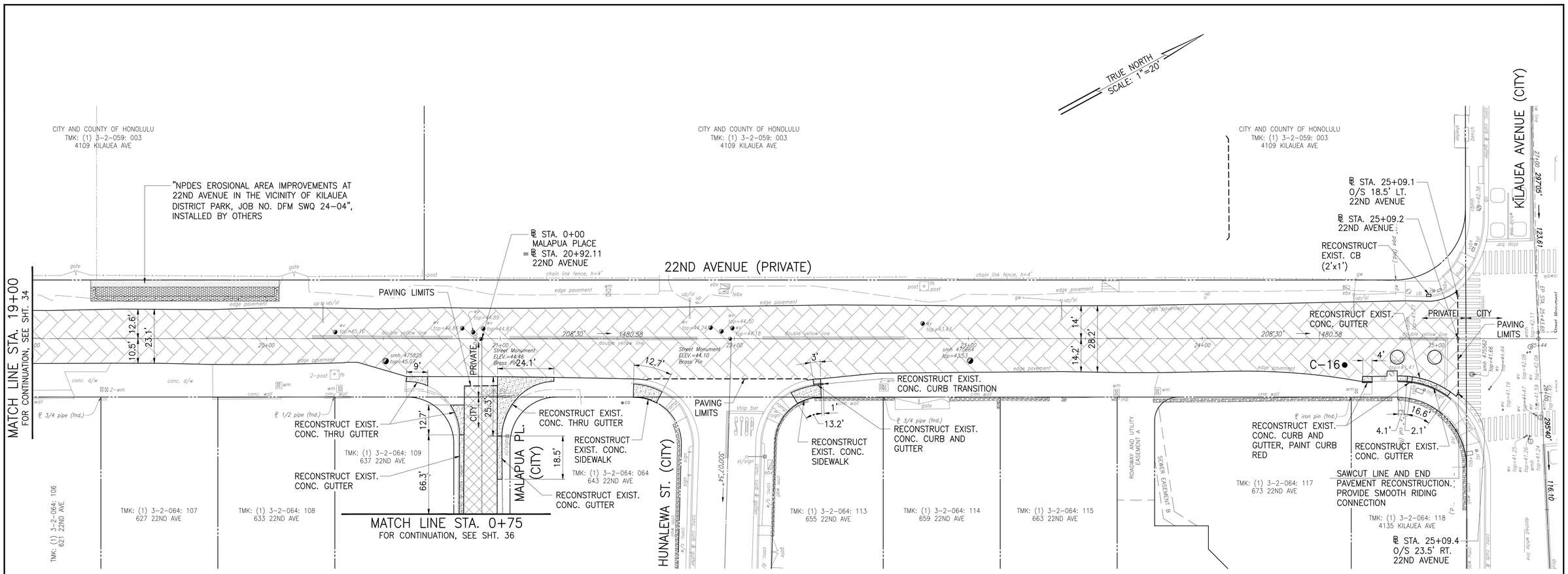
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 13
22ND AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C033
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 34
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\34 ROADWAY PLAN - 13 22ND AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 14
22ND AVENUE

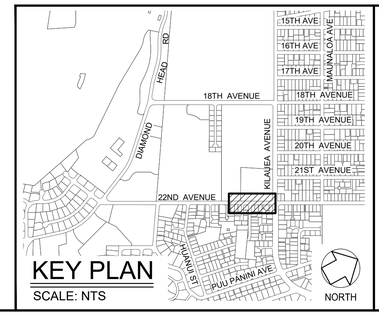
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (6" MIN. COLD PLANE AND RESURFACE WITH 2" A.C. PAVEMENT, STATE MIX IV ON 4" ACB)
- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2-2" LIFTS)
- RECONSTRUCT EXIST. CONC. SIDEWALK, EXIST. CURB AND/OR GUTTER
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C-15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
3. RESTORE AREAS OUTSIDE OF LIMITS OF REPAVING DISTURBED BY CONSTRUCTION WORK TO ORIGINAL CONDITION.
4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 14
22ND AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

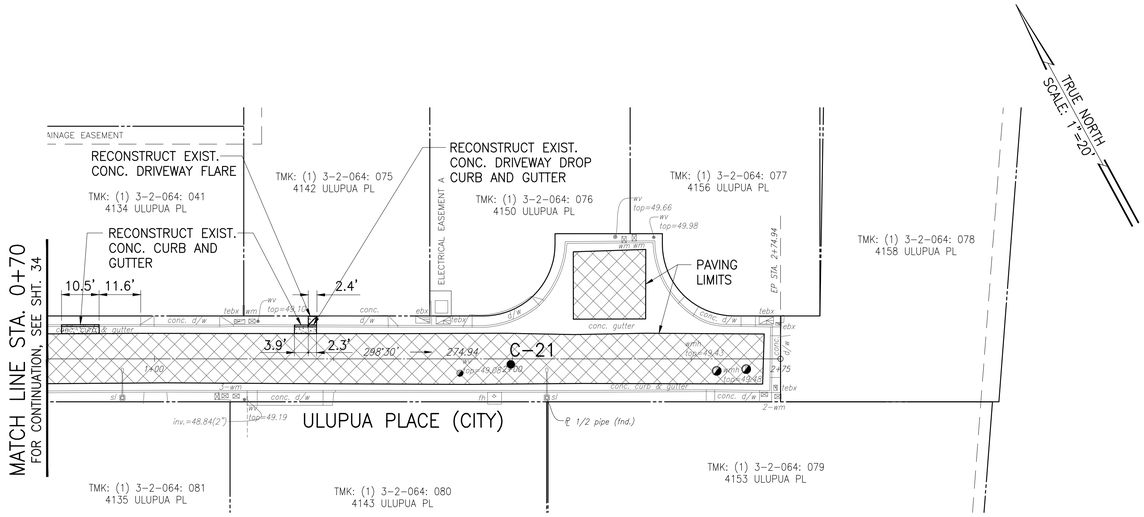
DRAWING NO. C034

SHEET NO. 35 OF 105 SHEETS

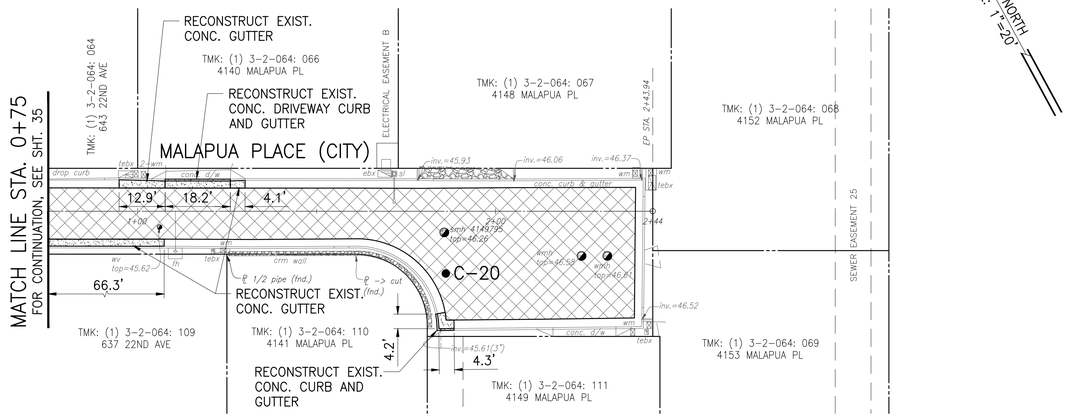
FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\35 ROADWAY PLAN - 14 22ND AVENUE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 15
ULUPUA PLACE
SCALE: 1"=20'



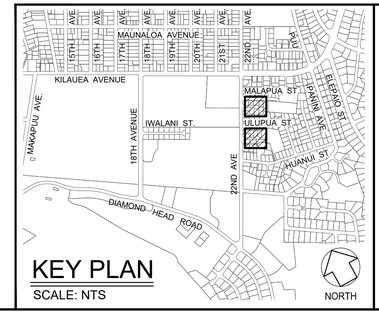
ROADWAY PLAN – 16
MALAPUA PLACE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4, 2–2" LIFTS)
- RECONSTRUCT EXIST. CONC. CURB AND/OR GUTTER
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 — APPROXIMATE CORING LOCATION AND NUMBER
- ------ — PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
3. RESTORE AREAS OUTSIDE OF LIMITS OF REPAVING DISTURBED BY CONSTRUCTION WORK TO ORIGINAL CONDITION.
4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.
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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 15 AND 16
ULUPUA PLACE AND MALAPUA PLACE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

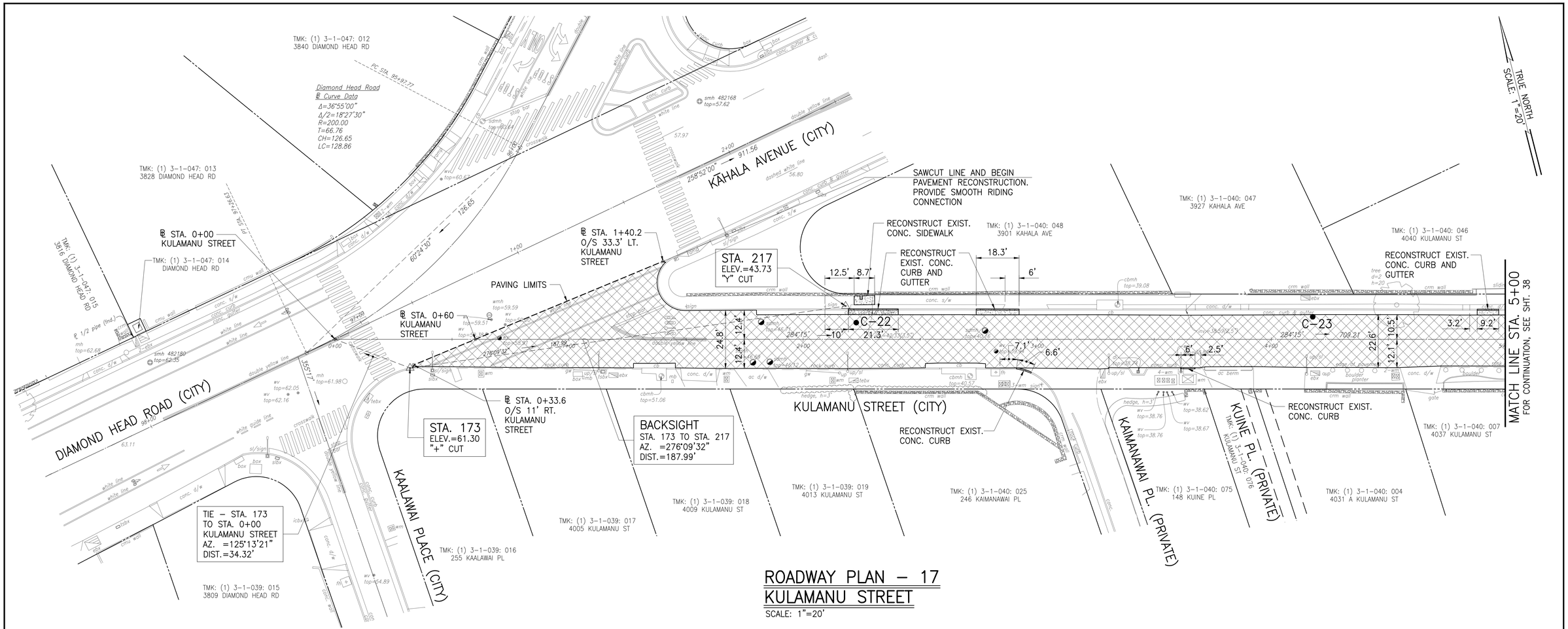
APPROVED:
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C035
SHEET NO. 36 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\36 ROADWAY PLAN – 15 AND 16 ULUPUA PLACE AND MALAPUA PLACE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 17
KULAMANU STREET

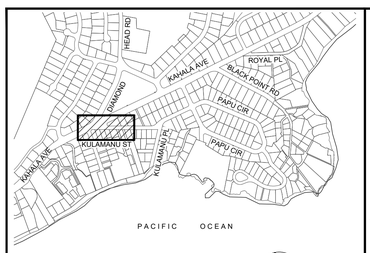
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- RECONSTRUCT EXIST. CONC. SIDEWALK AND/OR EXIST. CURB AND GUTTER
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C–15 APPROXIMATE CORING LOCATION AND NUMBER
- – – – – – PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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KEY PLAN

SCALE: NTS NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

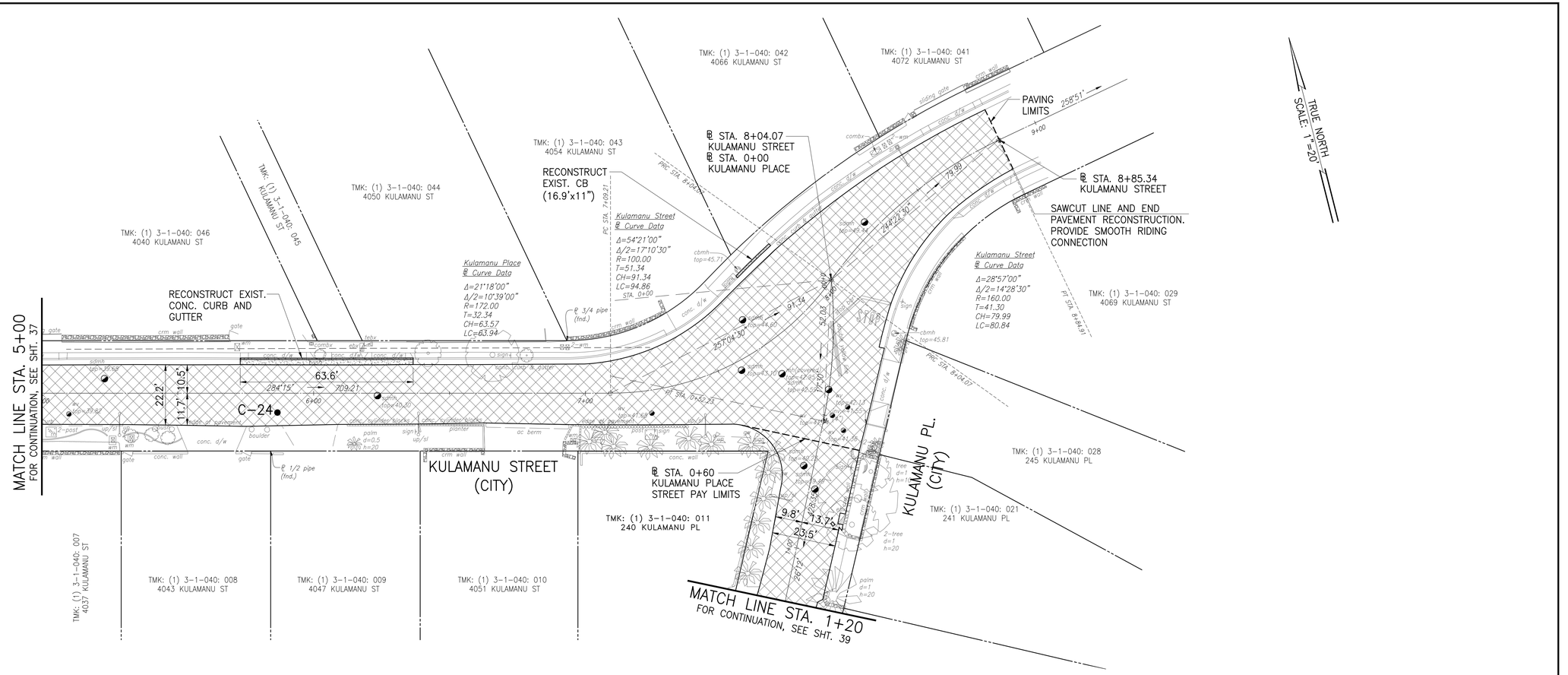
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 17
KULAMANU STREET

DESIGN	KH	APPROVED:	DRAWING NO. C036
DRAWN	MV		SHEET NO. 37
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\37 ROADWAY PLAN – 17 KULAMANU STREET.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 18
KULAMANU STREET

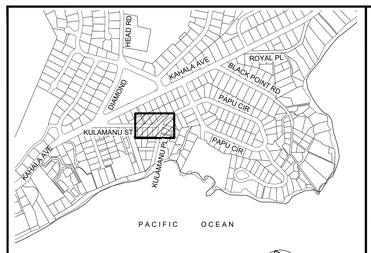
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- RECONSTRUCT EXIST. CONC. SIDEWALK AND/OR EXIST. CURB AND GUTTER
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C-15 APPROXIMATE CORING LOCATION AND NUMBER
- – – – – – PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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KEY PLAN
SCALE: NTS
NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

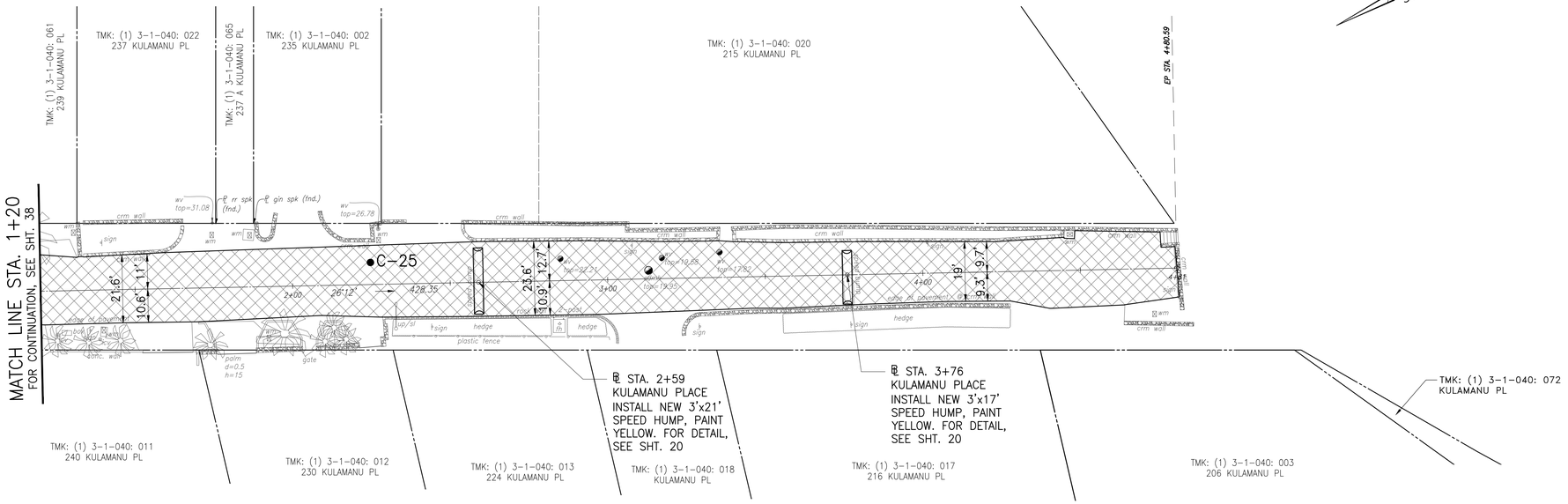
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 18
KULAMANU STREET

DESIGN	KH	APPROVED:	DRAWING NO. C037
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 38
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\38 ROADWAY PLAN - 18 KULAMANU STREET.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 19
KULAMANU PLACE

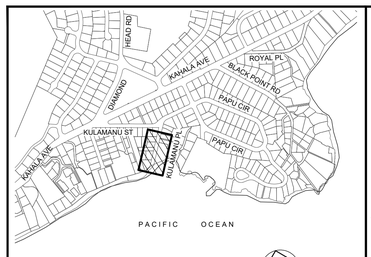
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C-15 — APPROXIMATE CORING LOCATION AND NUMBER
- ------ PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.



KEY PLAN
SCALE: NTS

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

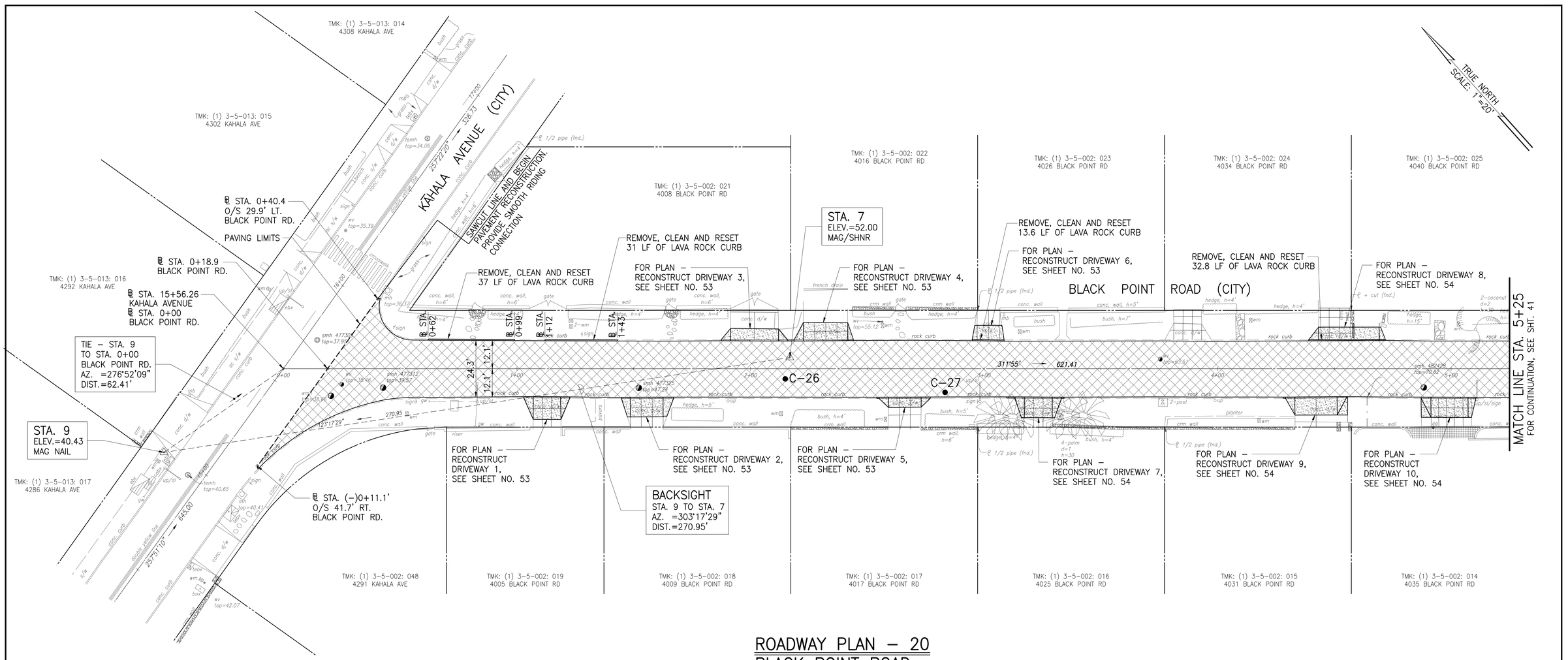
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 19
KULAMANU PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C038
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 39
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\39 ROADWAY PLAN - 19 KULAMANU PLACE.DWG
JOB NO. 0-20-024
051325



ROADWAY PLAN – 20
BLACK POINT ROAD

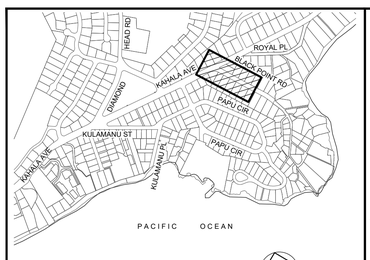
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- RECONSTRUCT EXIST. CONC. DRIVEWAYS
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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5. BIKESHARE HAWAII IS RESPONSIBLE FOR TEMPORARILY RELOCATING THE BIKI BIKE STATION AND OBTAINING PERMITS AND APPROVALS REQUIRED FOR THE RELOCATION. THE CONTRACTOR SHALL CONTACT BIKESHARE HAWAII AT LEAST ONE (1) MONTH PRIOR TO PAVING THE AFFECTED ROAD AND COORDINATE THE SCHEDULE WITH BIKESHARE HAWAII. CONTACT TODD BOULANGER, EXECUTIVE DIRECTOR AT 808–275–7810 OR todd@bikesharehawaii.org AND JONATHAN ALEXANDER AT j–alexander@securebikeshare.com. FOR GENERAL CONTACT: info@bikesharehawaii.org, CALL CENTER 888–340–2454.
6. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.
7. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.



KEY PLAN

SCALE: NTS

NORTH

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

LICENSED PROFESSIONAL ENGINEER
No. 6998-C
TERRANCE S. ARASHIRO
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

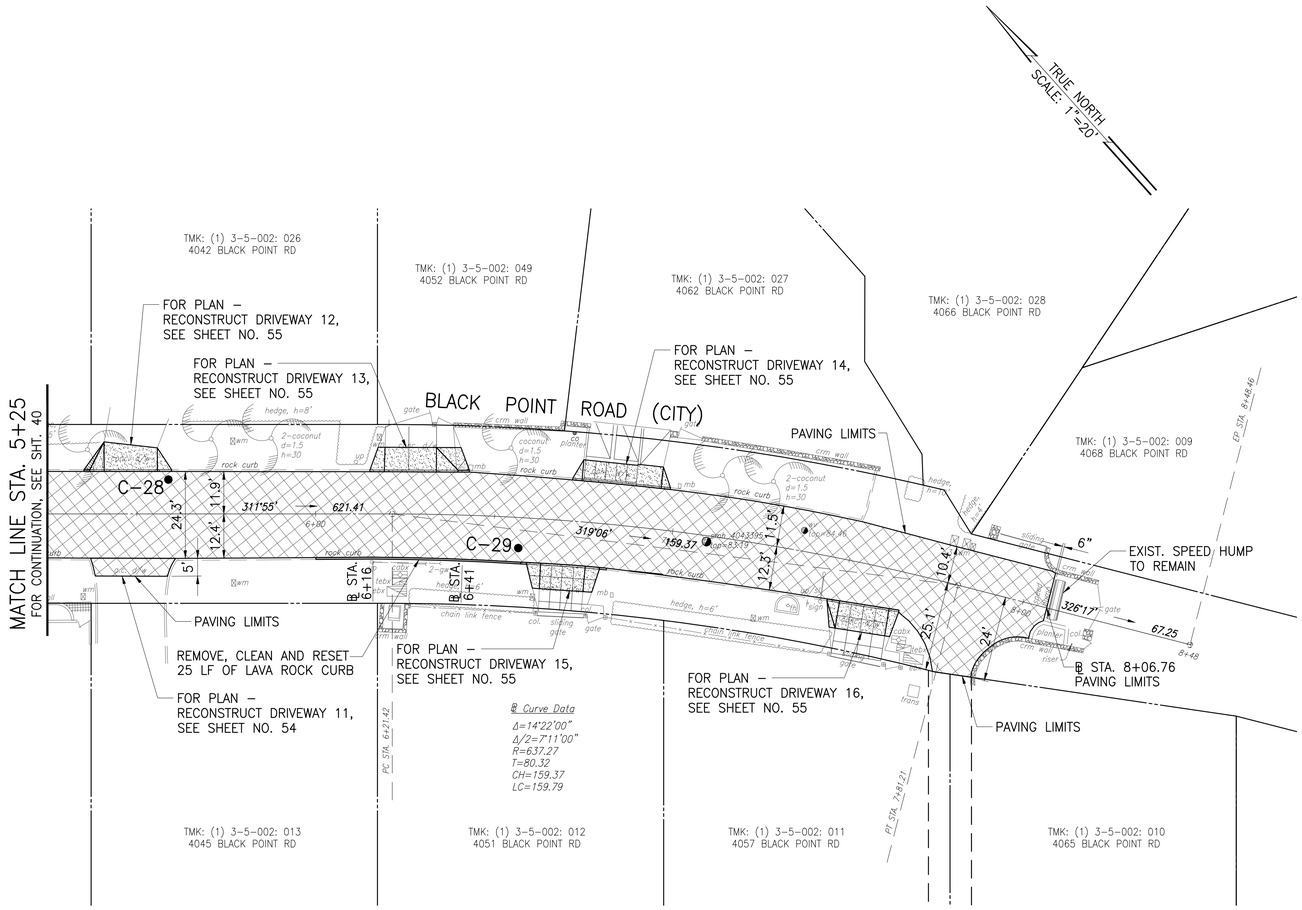
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 20
BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C039
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 40 OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\40 ROADWAY PLAN - 20 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
051325



LEGEND

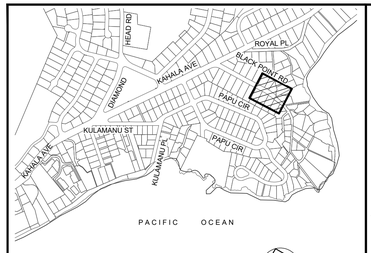
- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- RECONSTRUCT EXIST. CONC. DRIVEWAYS
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C-15 — APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

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4. ALL MANHOLES, VALVE BOXES, MONUMENT CASES AND OTHER PAVEMENT PENETRATIONS SHALL BE TEMPORARILY TRANSITIONED OR TEMPORARILY ADJUSTED, IF GREATER THAN 2", BEFORE OPENING THE ROADWAY TO TRAFFIC.
5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.
6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

ROADWAY PLAN – 21
BLACK POINT ROAD
SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN
SCALE: NTS
NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

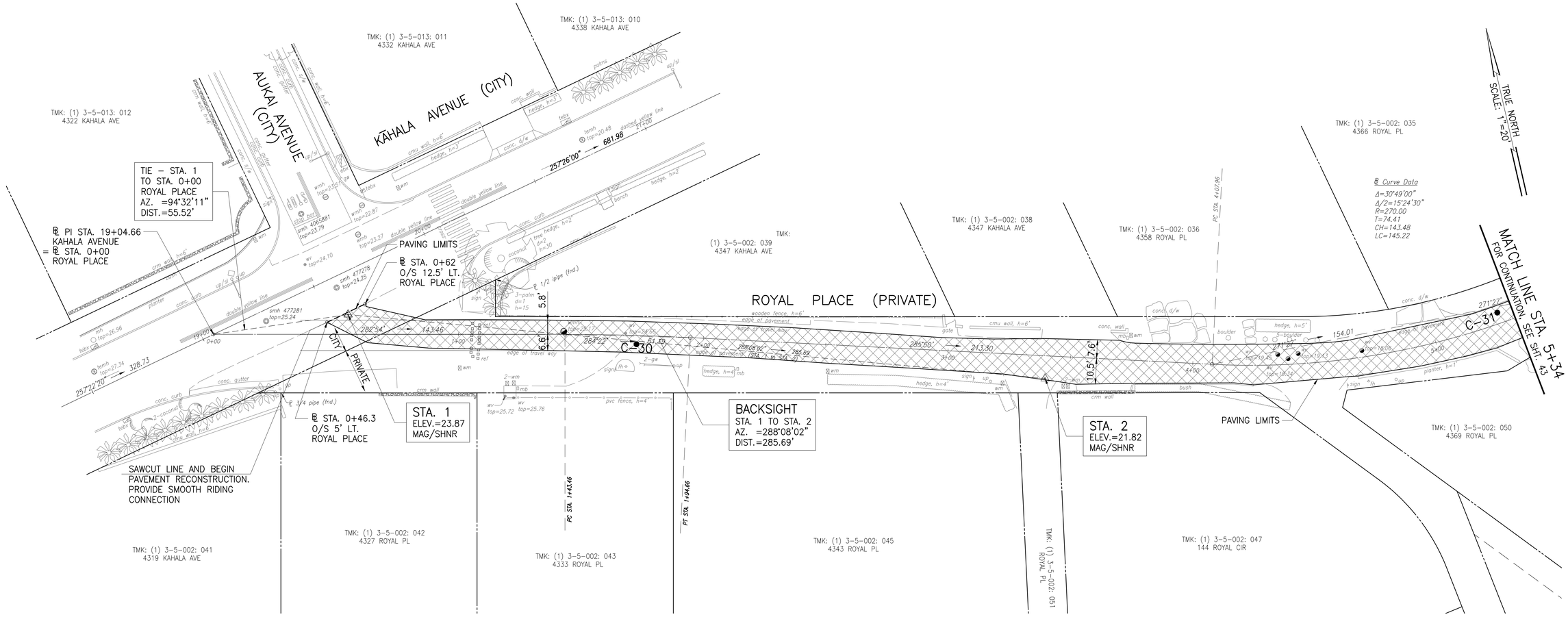
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 21
BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C040
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 41
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\41 ROADWAY PLAN - 21 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
051325



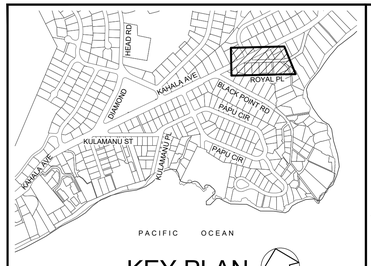
ROADWAY PLAN – 22
ROYAL PLACE
SCALE: 1"=20'

LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- C–15 APPROXIMATE CORING LOCATION AND NUMBER
- PAVING LIMITS OR STREET PAY LIMITS

NOTES:

1. STATIONS SHOWN ALONG BASELINE WITHIN THE REHABILITATION OF STREETS, PHASE 26A DRAWINGS ARE APPROXIMATE AND SHALL BE USED AS A GUIDE FOR THIS PROJECT ONLY.
2. ADJUST ALL UTILITY MANHOLE FRAME AND COVERS, VALVE BOX FRAMES AND COVERS, STREET MONUMENTS, ETC. TO NEW FINISH GRADES. COORDINATE WITH CITY AGENCIES AND UTILITY COMPANIES FOR WORK ON EACH RESPECTIVE UTILITY.
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5. PAVEMENT LIMITS AND LOCATION OF RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.
6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER–IN–CHARGE.



KEY PLAN
SCALE: NTS
NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 22
ROYAL PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C041
DRAWN	MV		SHEET NO. 42
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\42 ROADWAY PLAN - 22 ROYAL PLACE.DWG
JOB NO. 0-20-024
051325

TRUE NORTH
SCALE: 1"=20'

MATCH LINE STA. 5+34
FOR CONTINUATION, SEE SHT. 42

TMK: (1) 3-5-002: 035
4366 ROYAL PL

TMK: (1) 3-5-002: 034
4371 KAHALA AVE

TMK: (1) 3-5-002: 033
4377 KAHALA AVE

TMK: (1) 3-5-013: 005
4374 KAHALA AVE

TMK: (1) 3-5-013: 004
4382 KAHALA AVE

TMK: (1) 3-5-013: 003
4388 KAHALA AVE

TMK: (1) 3-5-002: 050
4369 ROYAL PL

TMK: (1) 3-5-002: 005
4375 ROYAL PL

TMK: (1) 3-5-002: 004
4377 ROYAL PL

TMK: (1) 3-5-002: 003
4383 ROYAL PL

TMK: (1) 3-5-002: 002
4393 ROYAL PL

TMK: (1) 3-5-002: 001
4391 ROYAL PL

ROYAL PLACE (PRIVATE)

KAHALA AVENUE (CITY)

PRIVATE

CITY

℄ Curve Data
Δ=30°49'00"
Δ/2=15°24'30"
R=270.00
T=74.41
CH=143.48
LC=145.22

PT STA. 5+63.60

PC STA. 6+14.01

℄ Curve Data
Δ=43°59'00"
Δ/2=21°59'30"
R=155.00
T=62.60
CH=116.09
LC=118.99

PT STA. 7+26.42

℄ Curve Data
Δ=16°17'00"
Δ/2=8°08'30"
R=1432.19
T=204.89
CH=405.66
LC=407.03

℄ STA. 9+30.42
O/S 43.13' LT.
ROYAL PLACE
= ℄ STA. 26+58.25
O/S 14.24' RT.
KAHALA AVENUE

℄ STA. 9+77.01
ROYAL PLACE
= ℄ STA. 27+21.12
O/S 13.83' RT.
KAHALA AVENUE

℄ STA. 9+97.83
ROYAL PLACE
= ℄ STA. 27+36.61
KAHALA AVENUE

℄ STA. 28+25.46
O/S 15.08' RT.
KAHALA AVENUE

PAVING LIMITS

C-32

253.42

209.22'

405.66'

NO PARKING ANY TIME

EXIST. SIGNS

EXIST. STOP SIGN

ROADWAY PLAN – 23
ROYAL PLACE

SCALE: 1"=20'

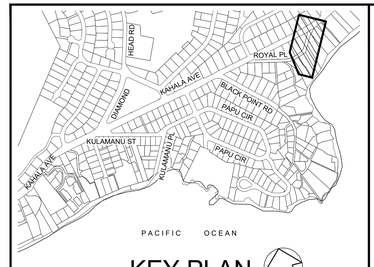
LEGEND

- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- ADJUST EXIST. FRAME AND COVER TO NEW FINISH GRADE.
- ● C-15 — APPROXIMATE CORING LOCATION AND NUMBER
- ------ PAVING LIMITS OR STREET PAY LIMITS

NOTES:

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6. LIMITS AND LOCATIONS OF CURB AND/OR GUTTER RECONSTRUCTION IN THE FIELD ARE TO BE DETERMINED BY THE OFFICER-IN-CHARGE.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN
SCALE: NTS
NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS
HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

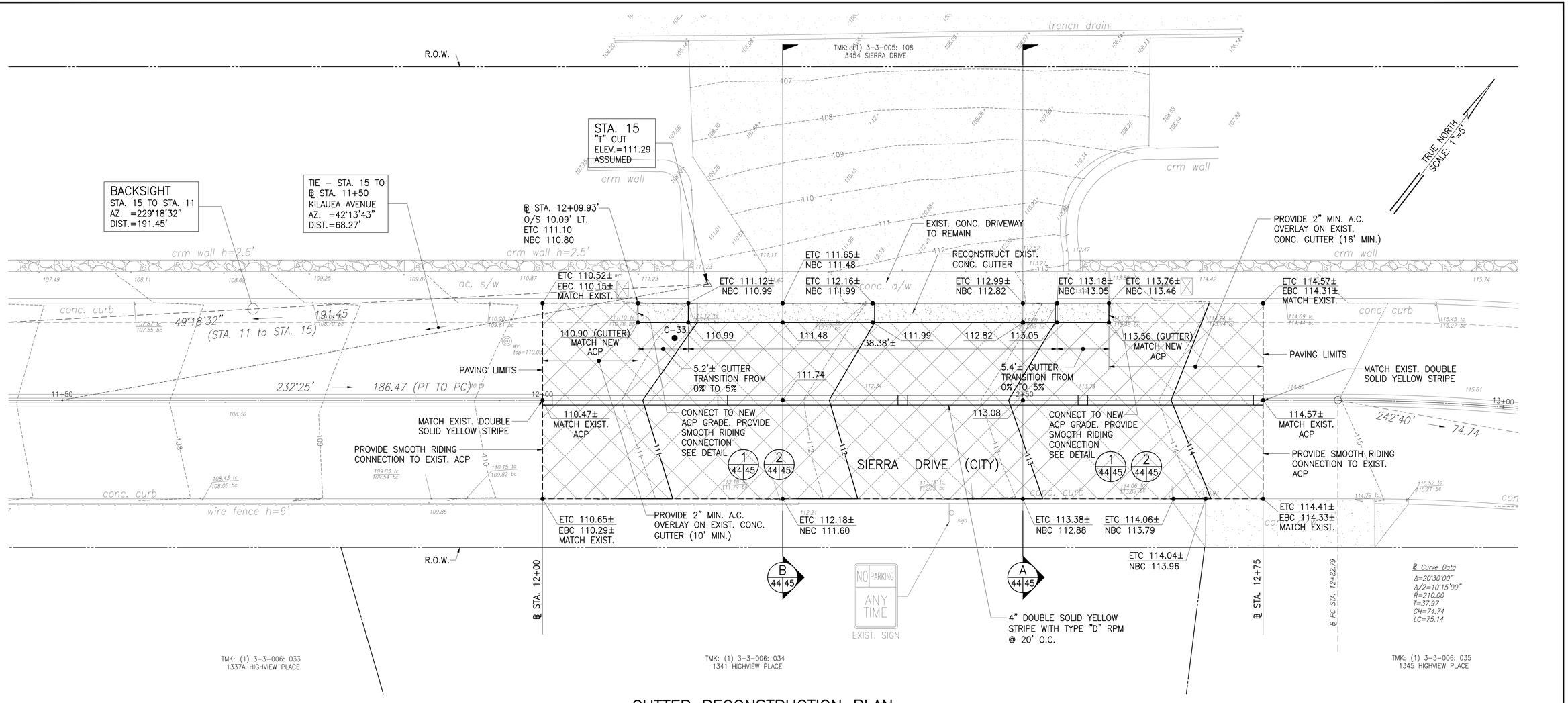
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

ROADWAY PLAN - 23
ROYAL PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C042
DRAWN	MV		SHEET NO. 43
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\43 ROADWAY PLAN - 23 ROYAL PLACE.DWG
JOB NO. 0-20-024
051325



GUTTER RECONSTRUCTION PLAN

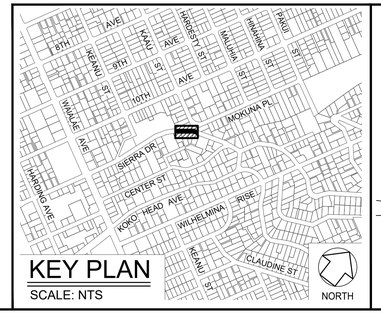
SCALE: 1"=5'

LEGEND

- NEW CONCRETE GUTTER
- RESURFACING AREA (4" MIN. COLD PLANE AND RESURFACE WITH 4" A.C. PAVEMENT, CITY MIX #4)
- ● C-15 — APPROXIMATE CORING LOCATION AND NUMBER
- ------ — PAVING LIMITS OR STREET PAY LIMITS
- 112.18 tc / 111.79 bc — EXISTING TOP AND BOTTOM CURB ELEVATIONS
- 112.18± ETC / 110.60 NBC — EXISTING TOP AND NEW BOTTOM CURB ELEVATIONS
- ----112---- — EXISTING CONTOUR LINE
- ——112—— — NEW CONTOUR LINE

NOTES:

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KEY PLAN

SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

GUTTER RECONSTRUCTION PLAN - SIERRA DRIVE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

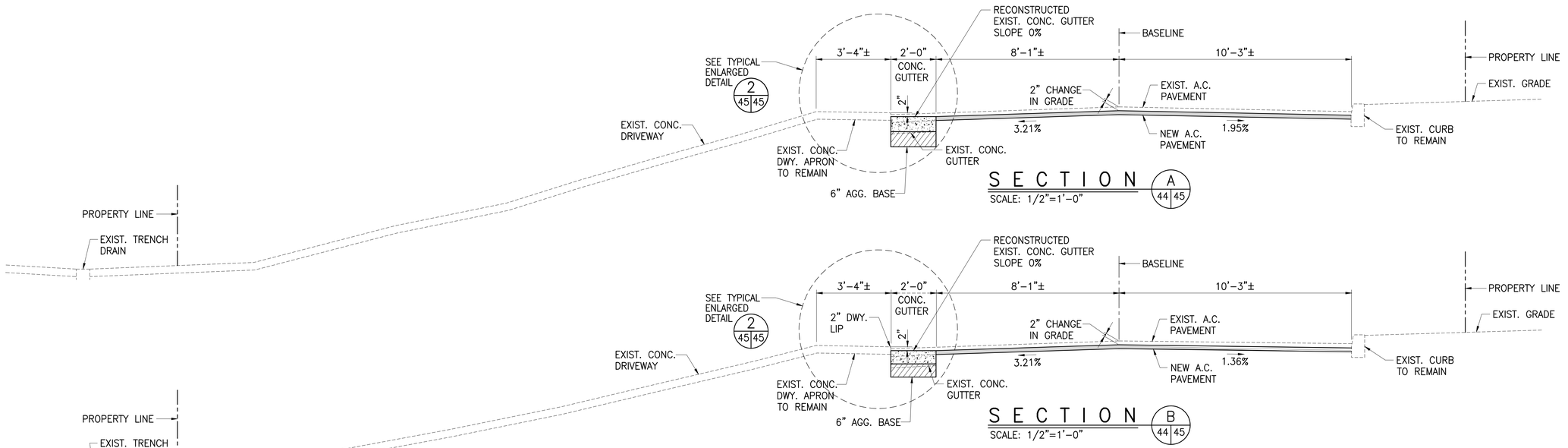
CHIEF, CIVIL DIVISION, DDC DATE

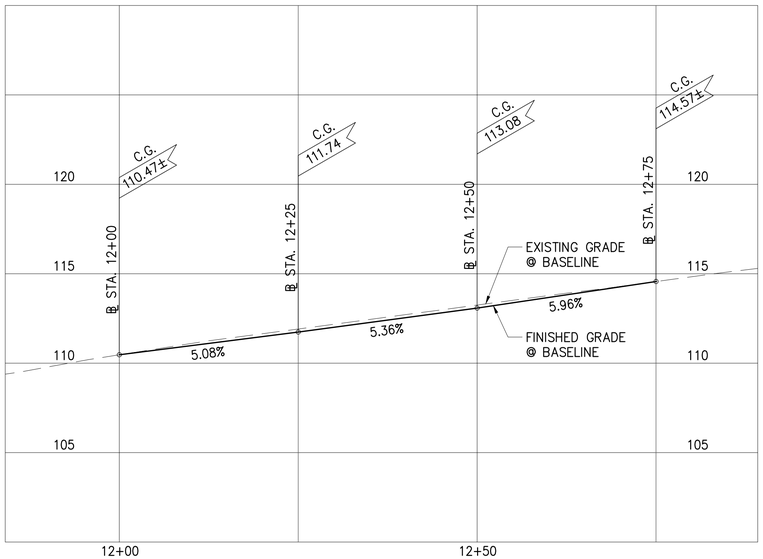
DRAWING NO. C043
SHEET NO. 44 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

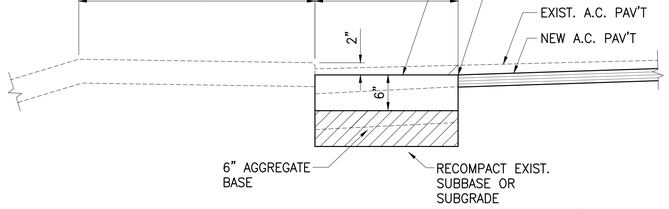
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\44 GUTTER RECONSTRUCTION PLAN – SIERRA DRIVE.DWG
JOB NO. 0-20-024
040125





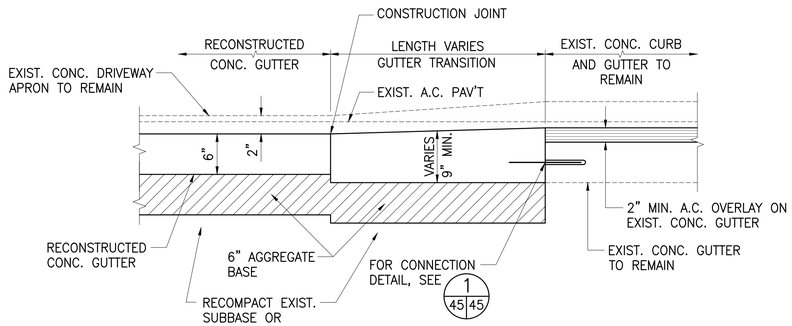
PROFILE – SIERRA DRIVE BASELINE

SCALE: HORIZ. 1"=10'
VERT. 1"=4'



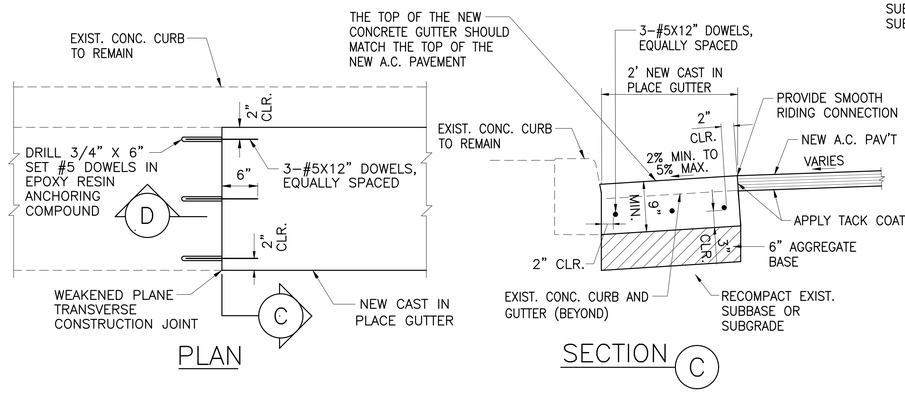
TYPICAL ENLARGED DETAIL 2 45|45

NOT TO SCALE



SECTION D

NOT TO SCALE



PLAN

SECTION C

EXIST. CONC. GUTTER TO NEW CONC. GUTTER CONNECTION DETAIL 1 44|45

NOT TO SCALE 45

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS • STRUCTURAL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

HONOLULU, O'AHU, HAWAI'I

PROFILE - SIERRA DRIVE BASELINE, SECTIONS AND DETAIL

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

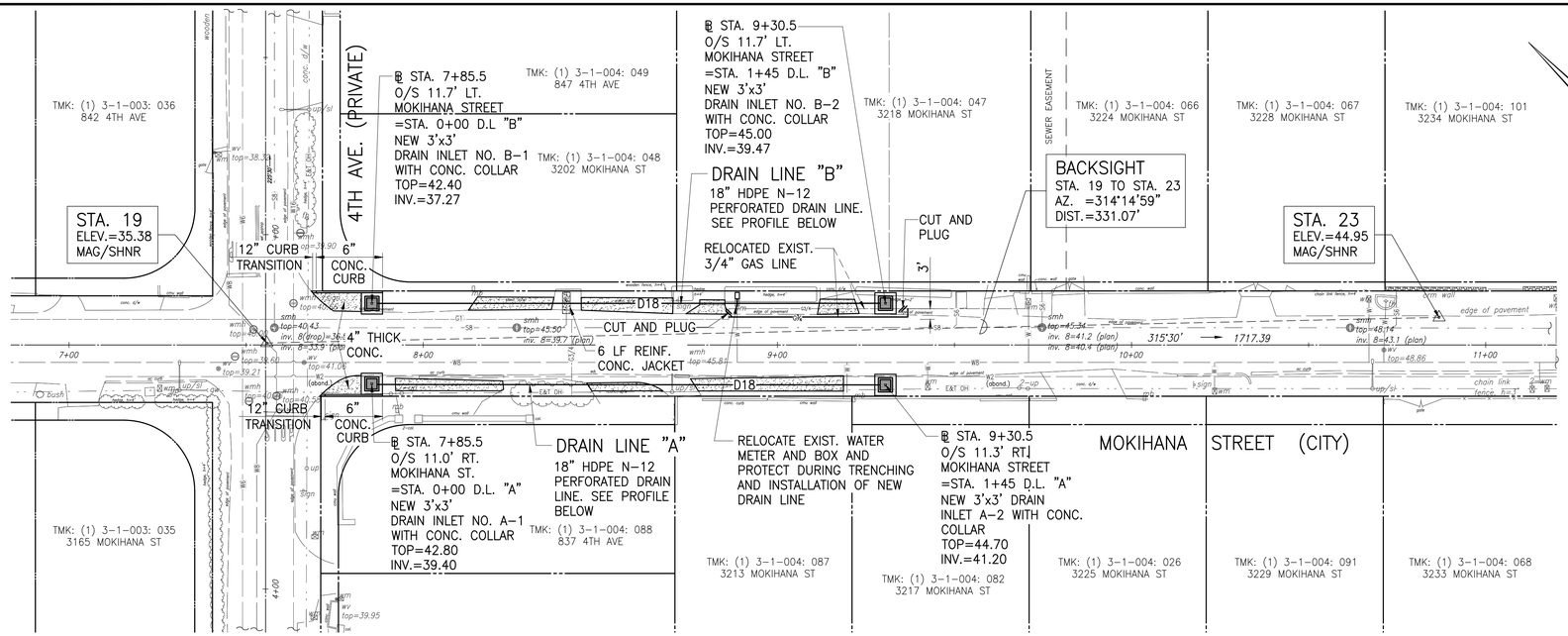
DRAWING NO. C044

SHEET NO. 45 OF 105 SHEETS

FILE	DRAW	FOLDER

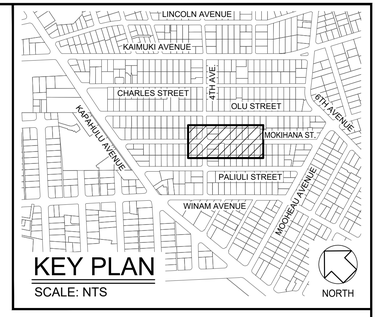
FILE	POCKET	FOLDER	NO.

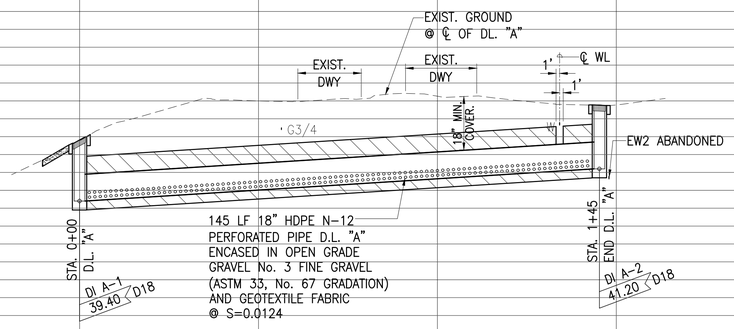
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\45 PROFILE - SIERRA DRIVE BASELINE, SECTIONS AND DETAIL.DWG
JOB NO. 0-20-024
0401125



PLAN – DRAIN LINE "A" AND DRAIN LINE "B" – MOKIHANA STREET

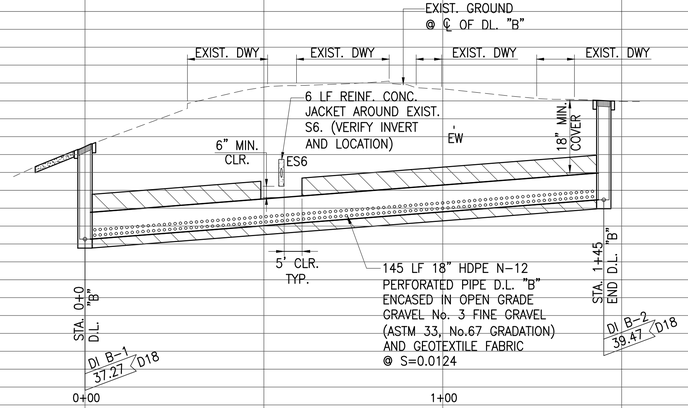
SCALE: 1"=20'





PROFILE – DRAIN LINE "A" – MOKIHANA STREET

SCALE: HORIZ:1"=20'
VERT.: 1"=4'



PROFILE – DRAIN LINE "B" – MOKIHANA STREET

SCALE: HORIZ:1"=20'
VERT.: 1"=4'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

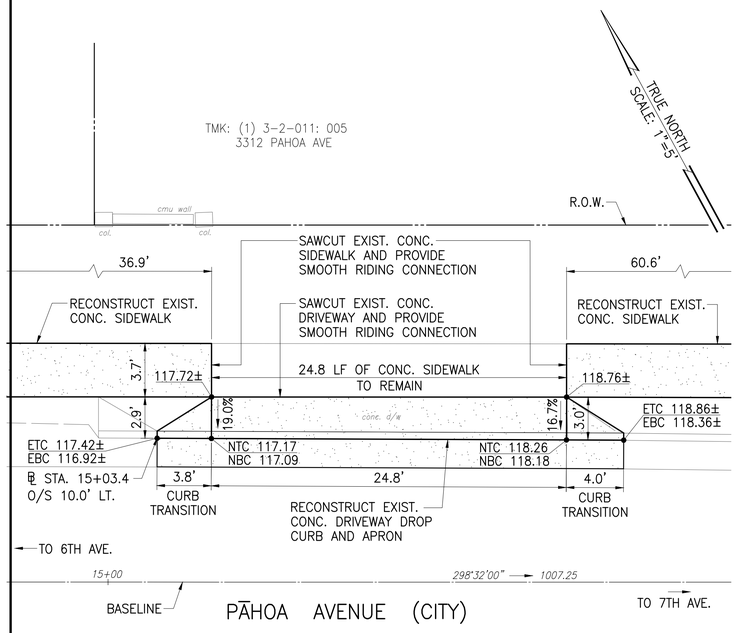
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN AND PROFILE - DRAIN LINE "A" AND DRAIN LINE "B" - MOKIHANA STREET

DESIGN	KH	APPROVED:	DRAWING NO. C045
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 46
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

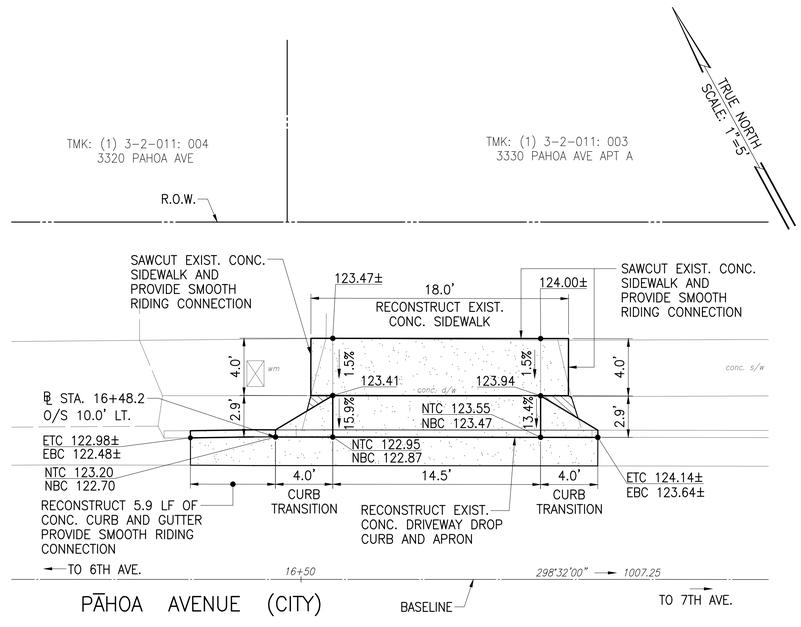
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\46 PLAN & PROFILE - D.L. A & D.L. B - MOKIHANA ST.DWG
JOB NO. O-20-024
040125



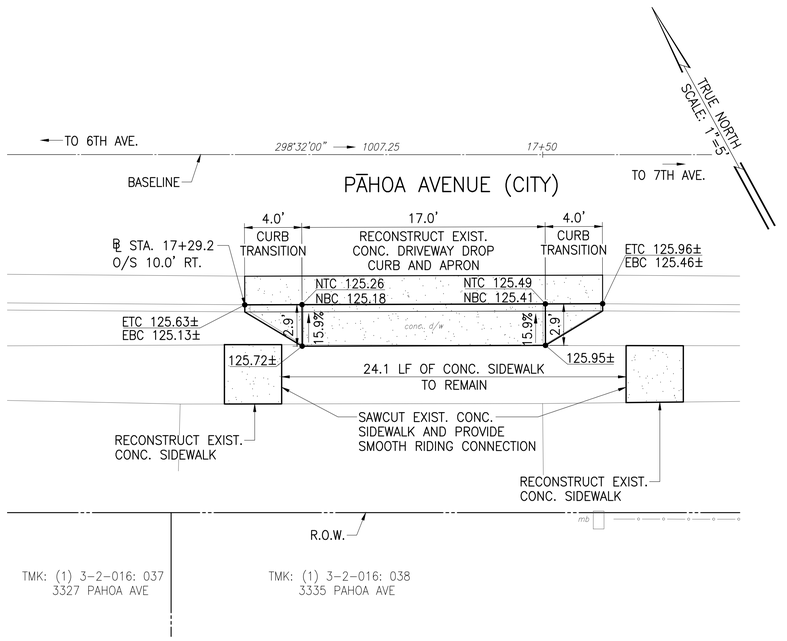
PLAN – RECONSTRUCT DRIVEWAY 1

SCALE: 1"=5'



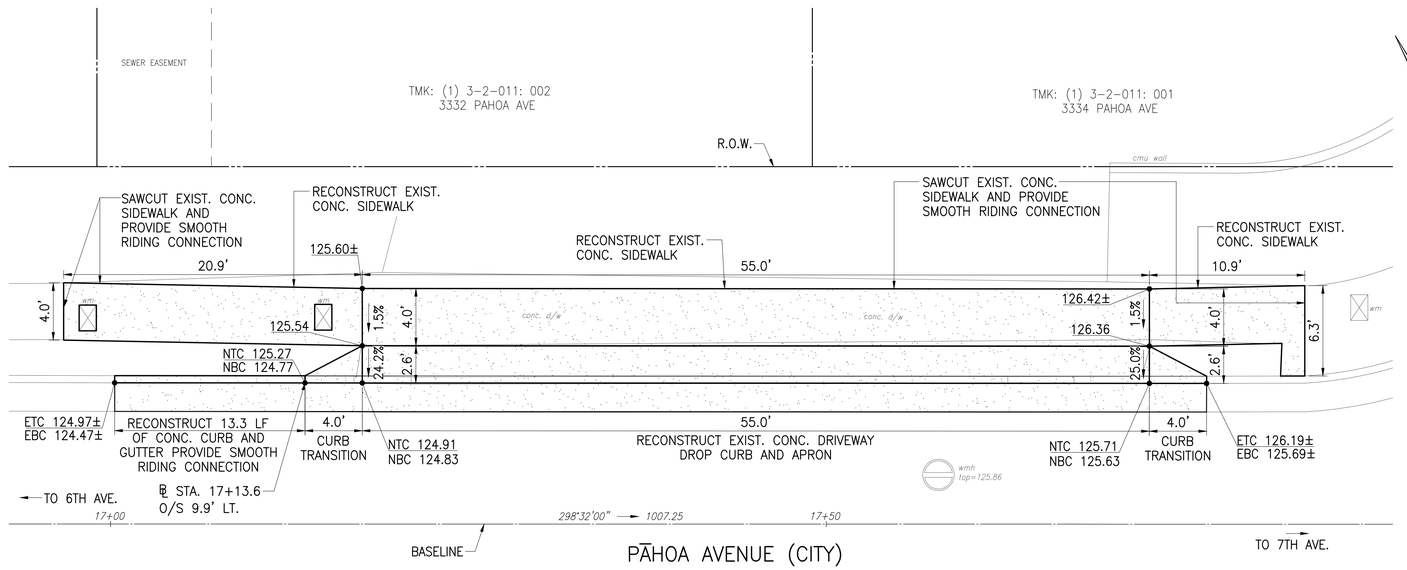
PLAN – RECONSTRUCT DRIVEWAY 2

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 4

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 3

SCALE: 1"=5'

LEGEND

REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

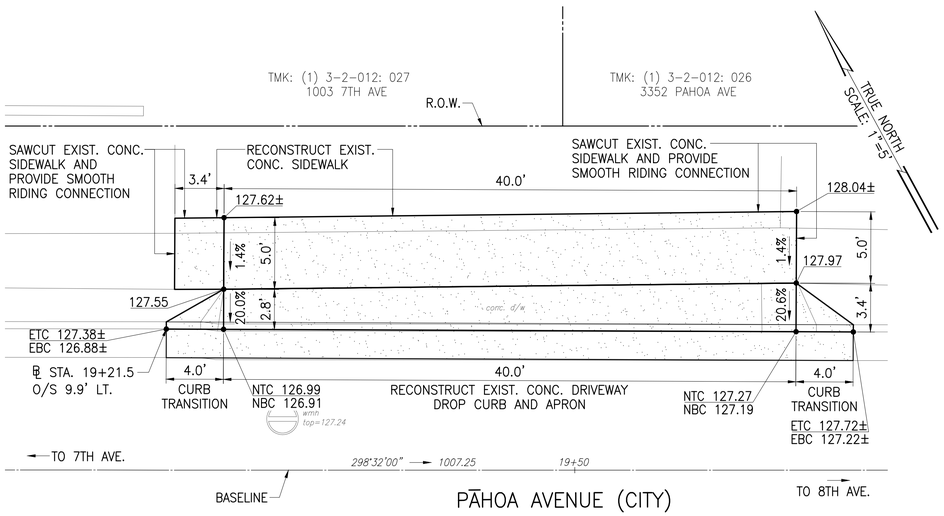
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 1 - 4
PĀHOA AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C046
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 47
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

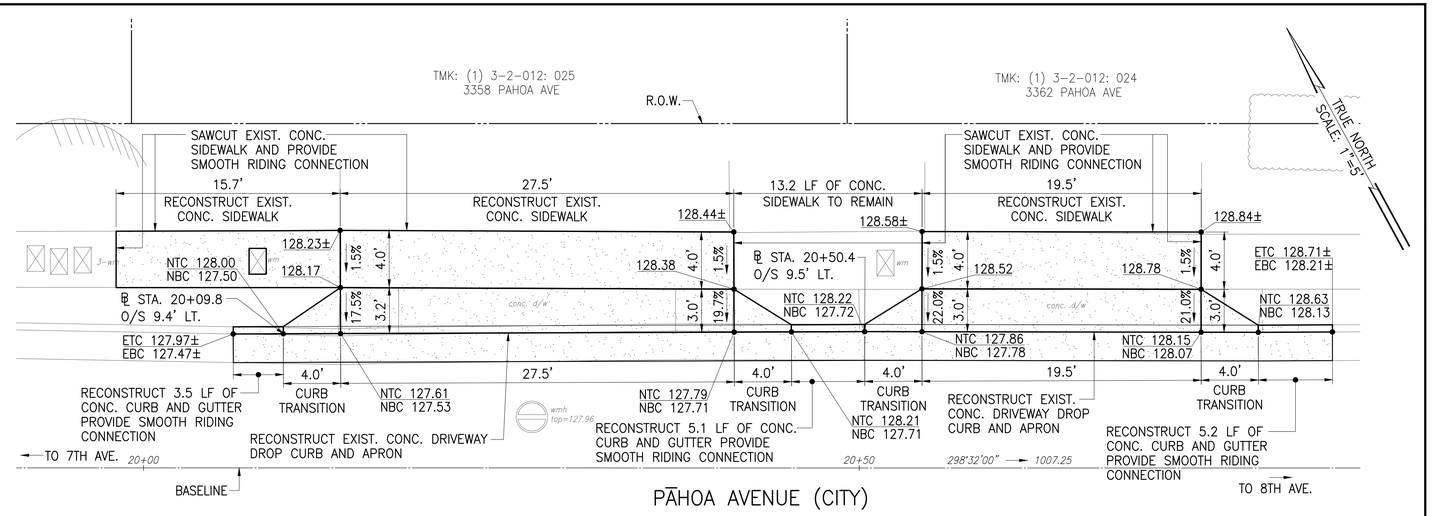
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325



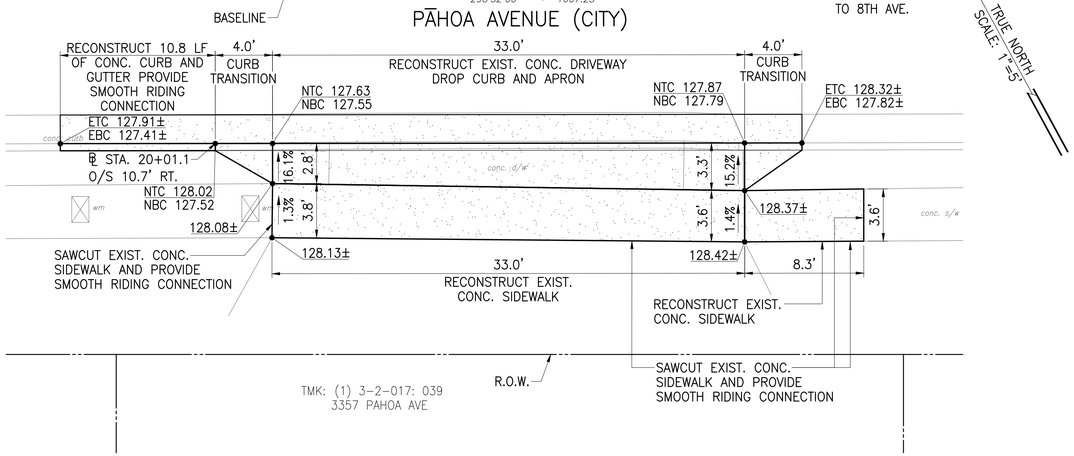
PLAN – RECONSTRUCT DRIVEWAY 5

SCALE: 1"=5'



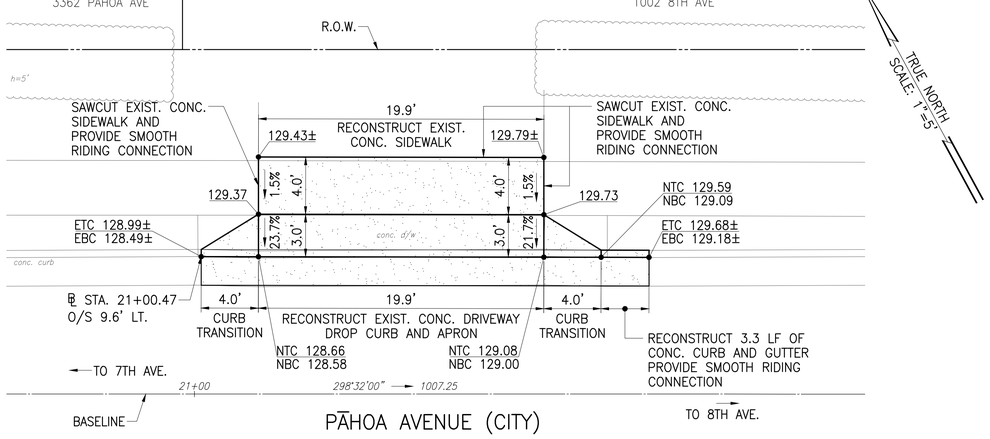
PLAN – RECONSTRUCT DRIVEWAY 6 AND 7

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 8

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 9

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 5 - 9 PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

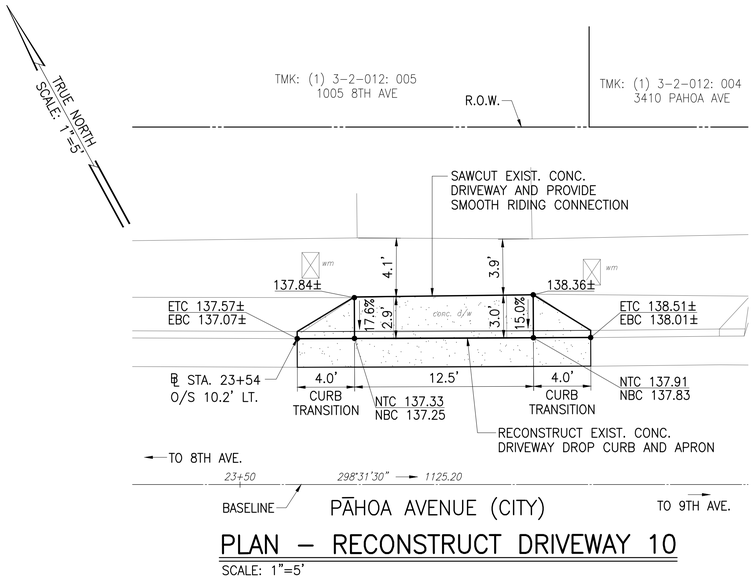
DRAWING NO. C047

SHEET NO. 48 OF 105 SHEETS

FILE DRAW FOLDER

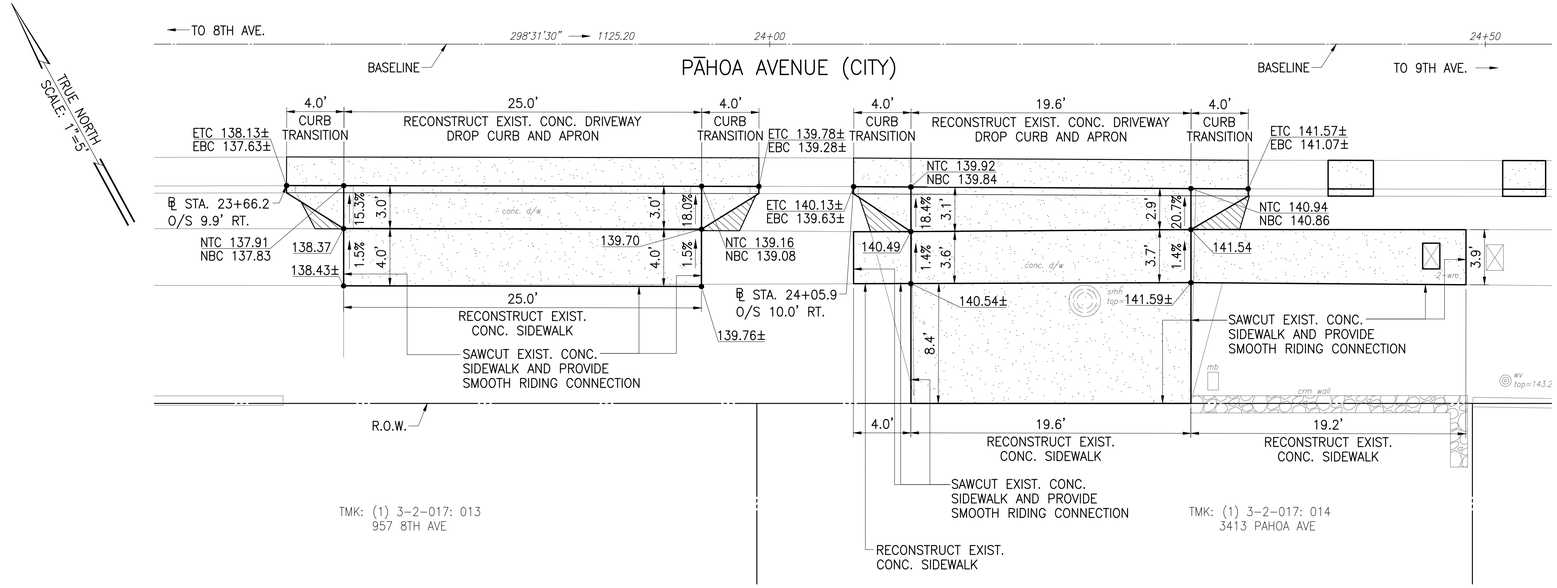
FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\48 PLAN - RECONSTRUCT DRIVEWAY 5 - 9 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



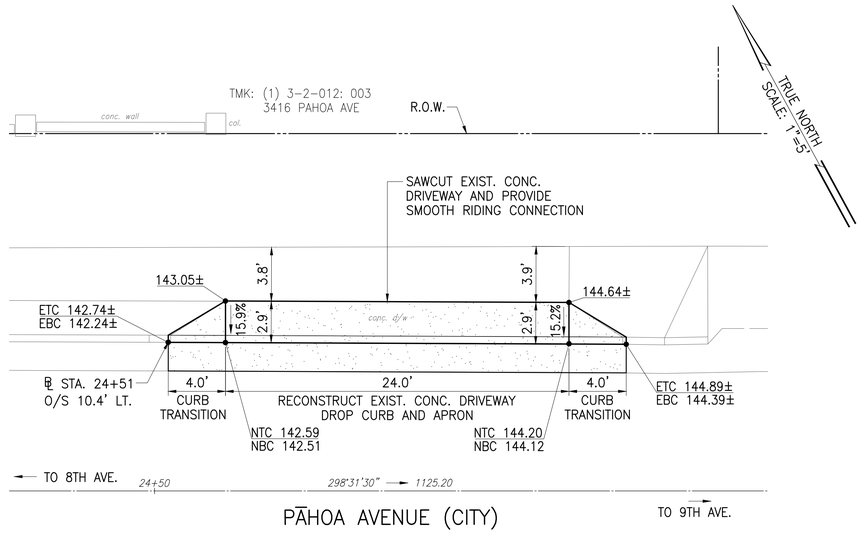
PLAN – RECONSTRUCT DRIVEWAY 10

SCALE: 1"=5'



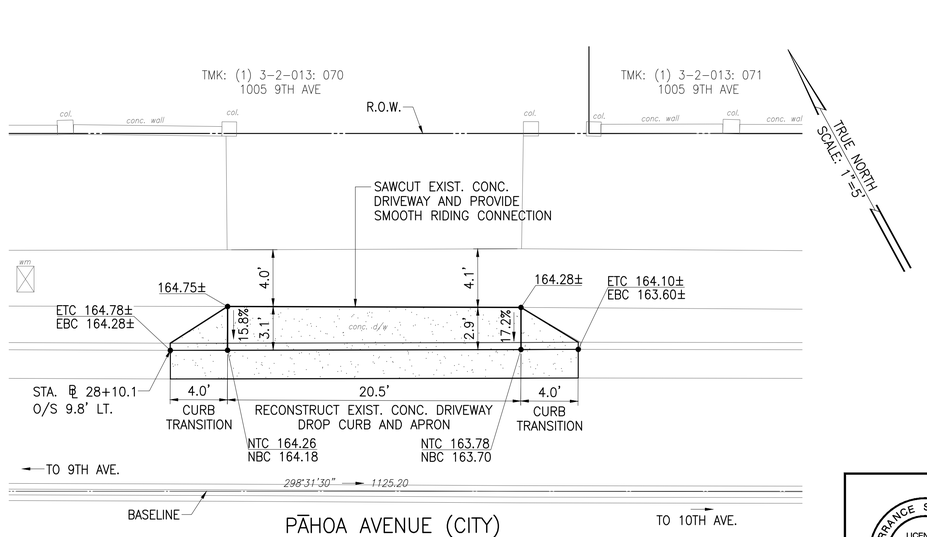
PLAN – RECONSTRUCT DRIVEWAY 11 AND 12

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 13

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 14

SCALE: 1"=5'

LEGEND

REMOVE EXIST. CONC. SIDEWALK AND INSTALL TOP SOIL (4" MIN.)

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

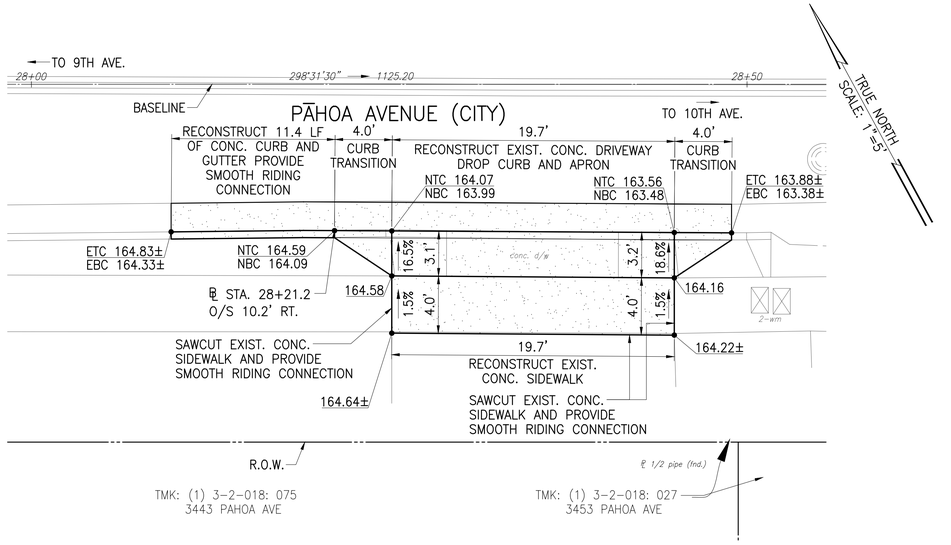
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 10 - 14
PĀHOA AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C048
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 49
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

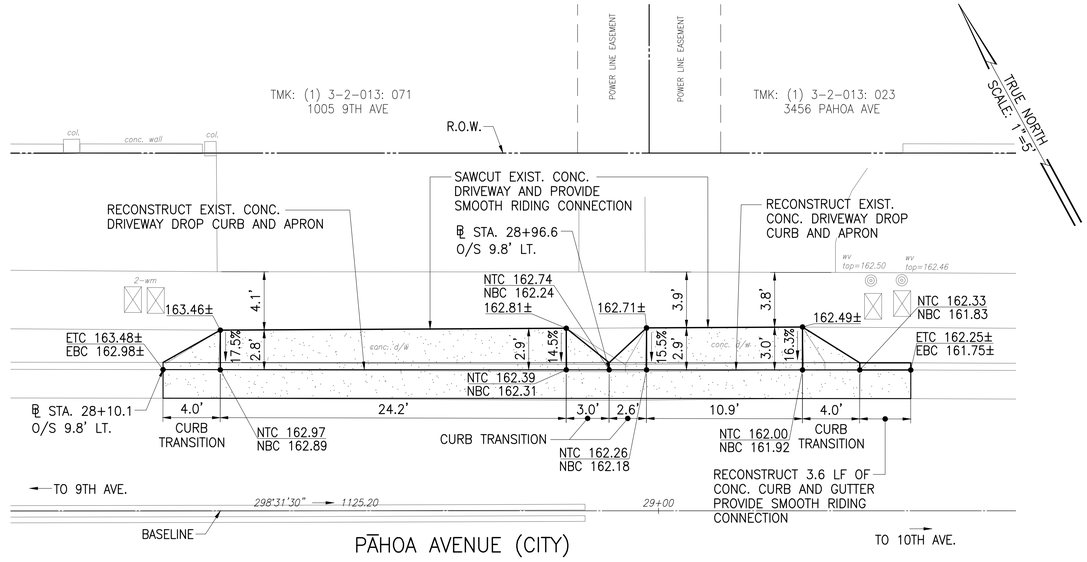
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325



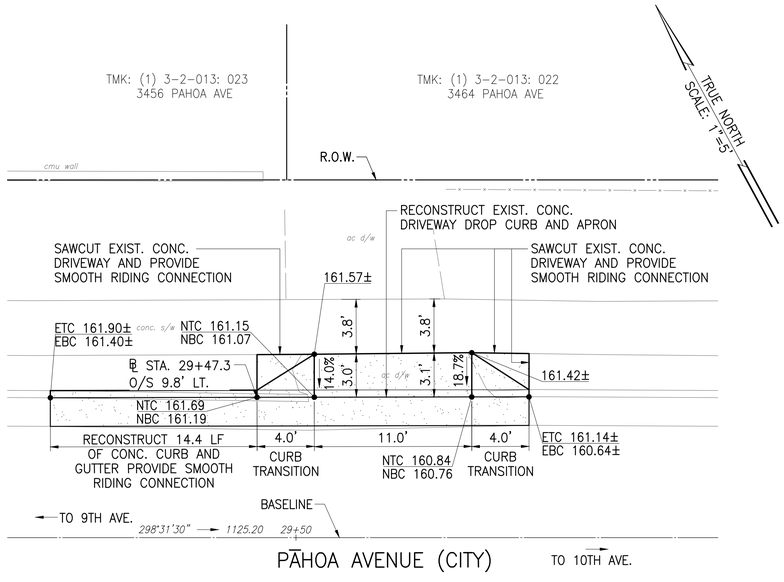
PLAN – RECONSTRUCT DRIVEWAY 15

SCALE: 1"=5'



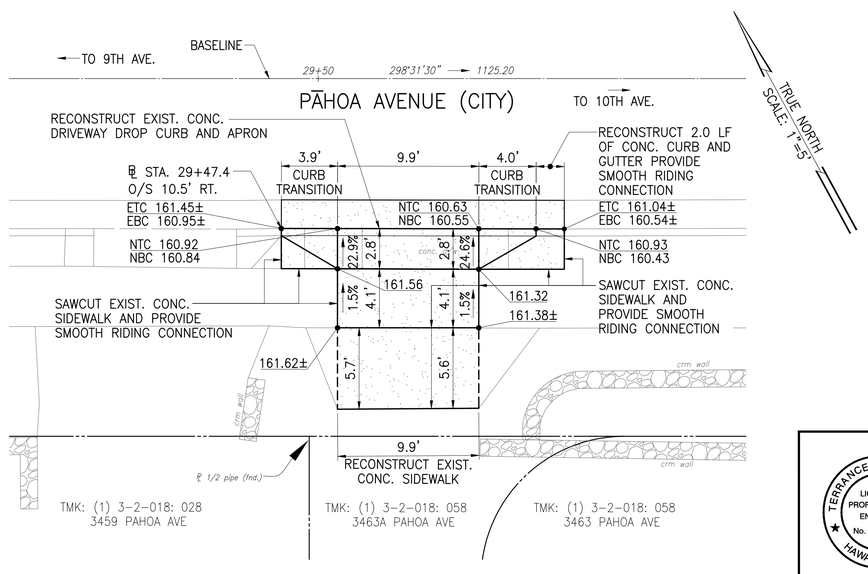
PLAN – RECONSTRUCT DRIVEWAY 16 & 17

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 18

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 19

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 15 - 19
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

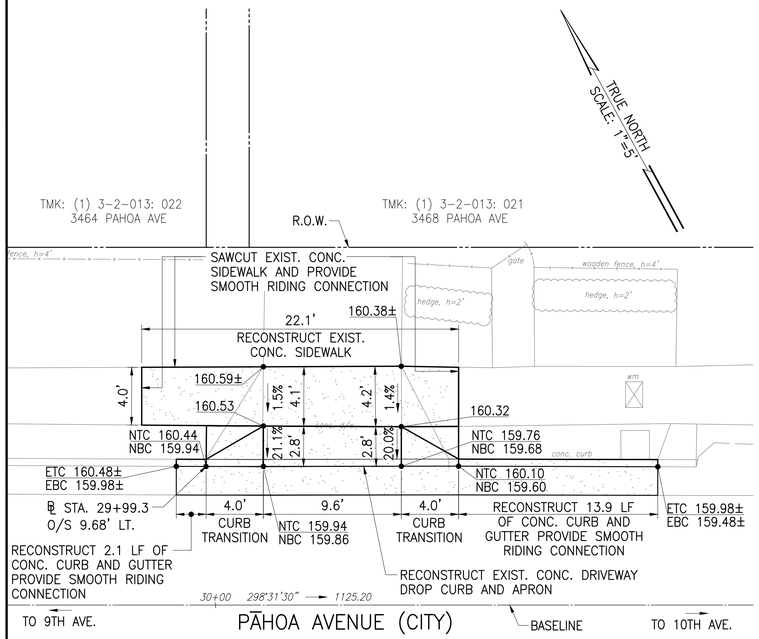
DRAWING NO. C049
SHEET NO. 50 OF 105 SHEETS

JOB NO. XX-XX

FILE	DRAW	FOLDER

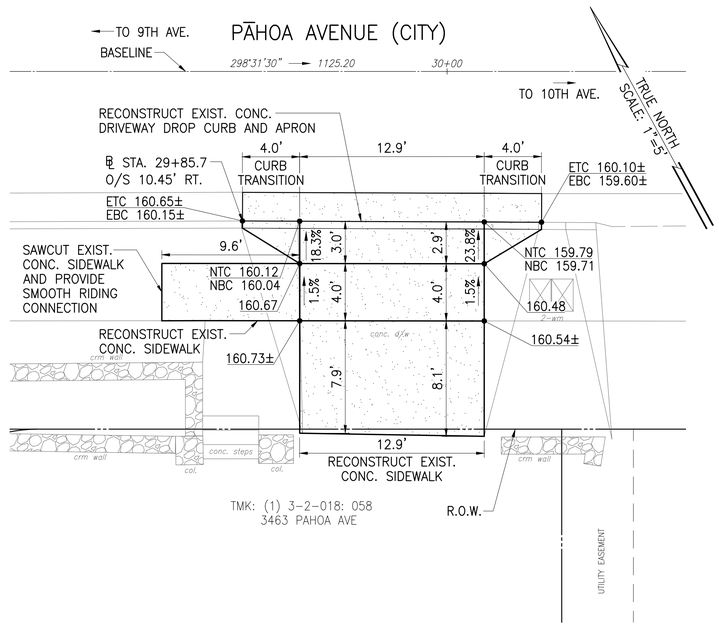
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325



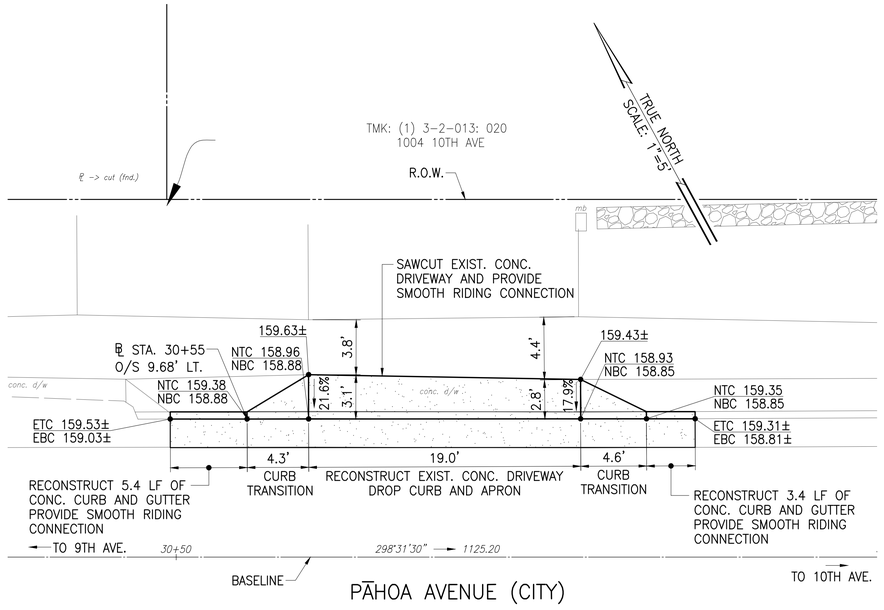
PLAN – RECONSTRUCT DRIVEWAY 20

SCALE: 1"=5'



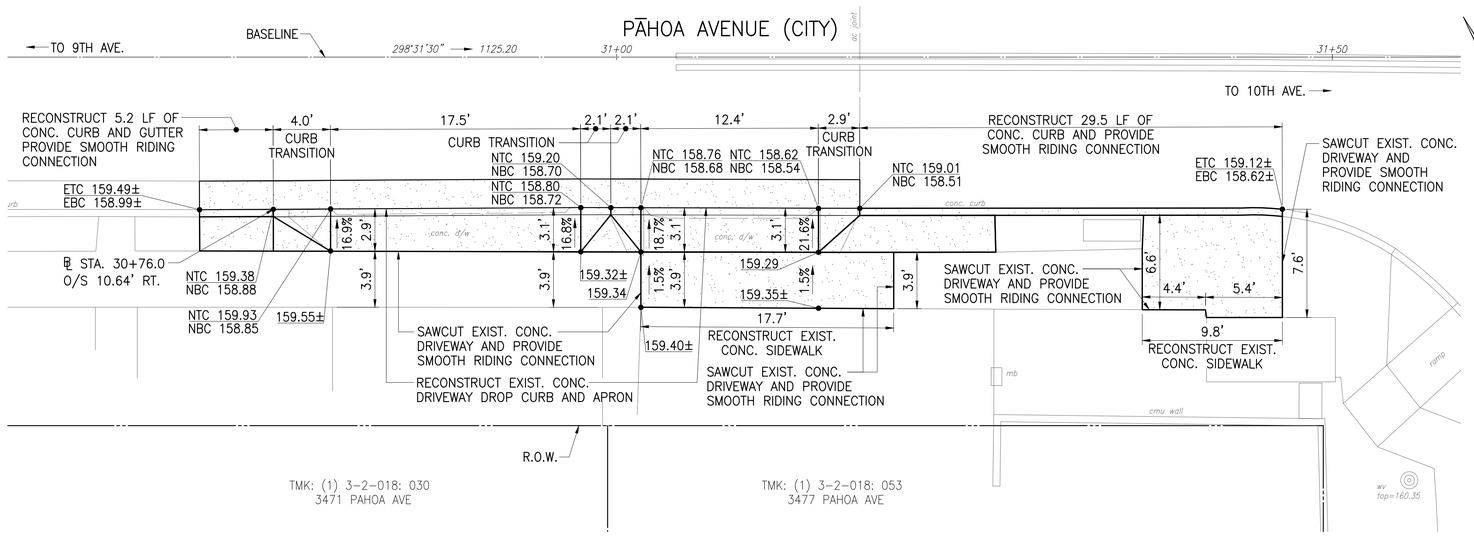
PLAN – RECONSTRUCT DRIVEWAY 21

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 22

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 23 & 24

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 20 - 24
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25

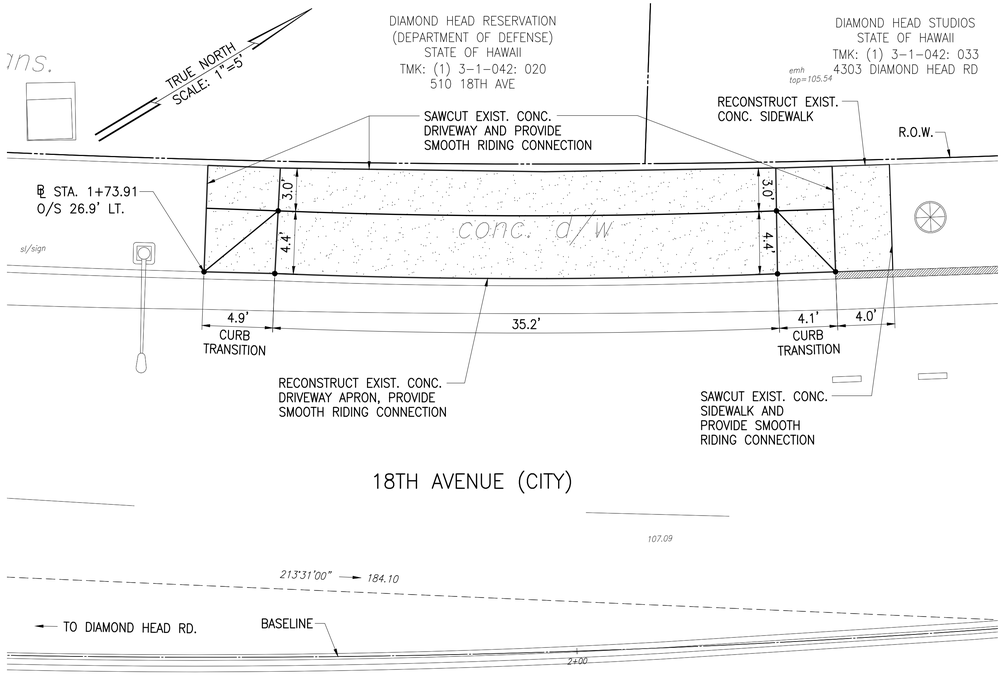
APPROVED:
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C050
SHEET NO. 51 OF 105 SHEETS

JOB NO. XX-XX | FILE | DRAW | FOLDER

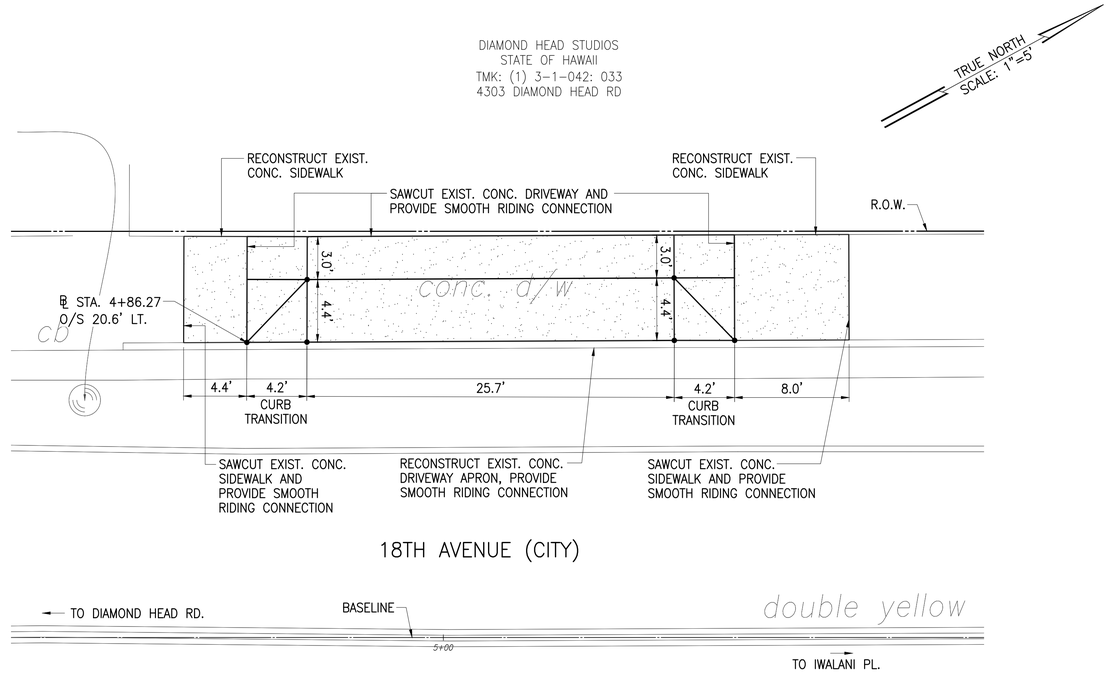
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325



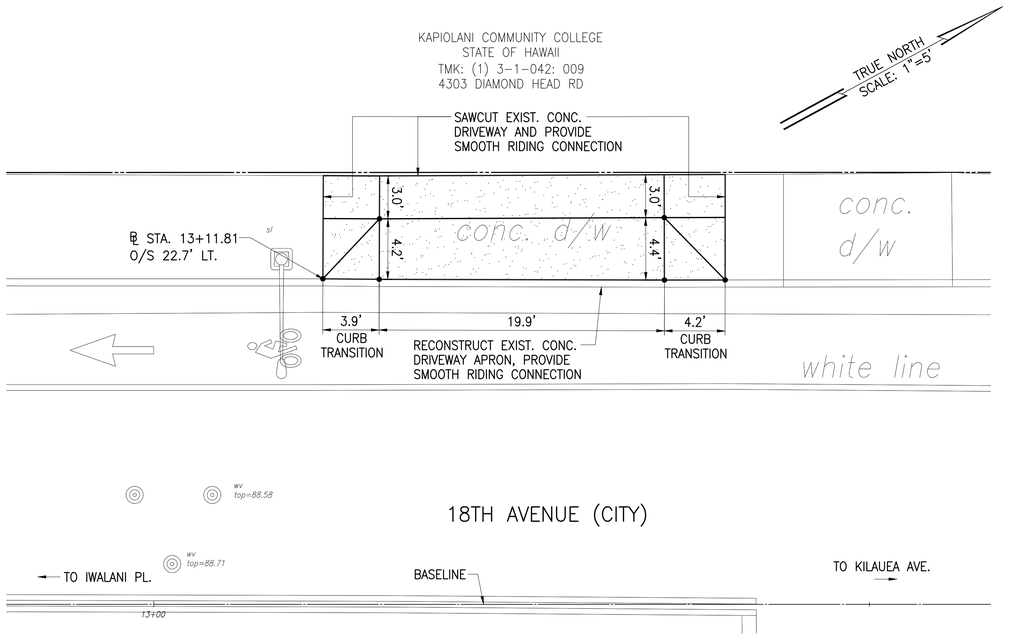
PLAN – RECONSTRUCT DRIVEWAY 1

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 2

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 3

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

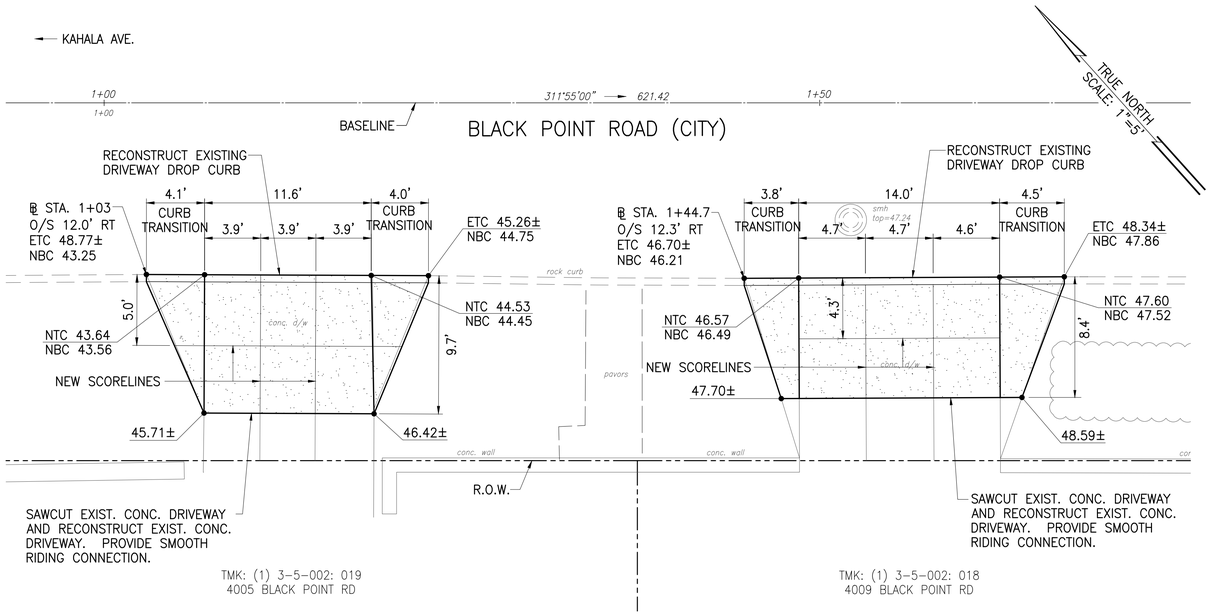
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 1 - 3
18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C051
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 52
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

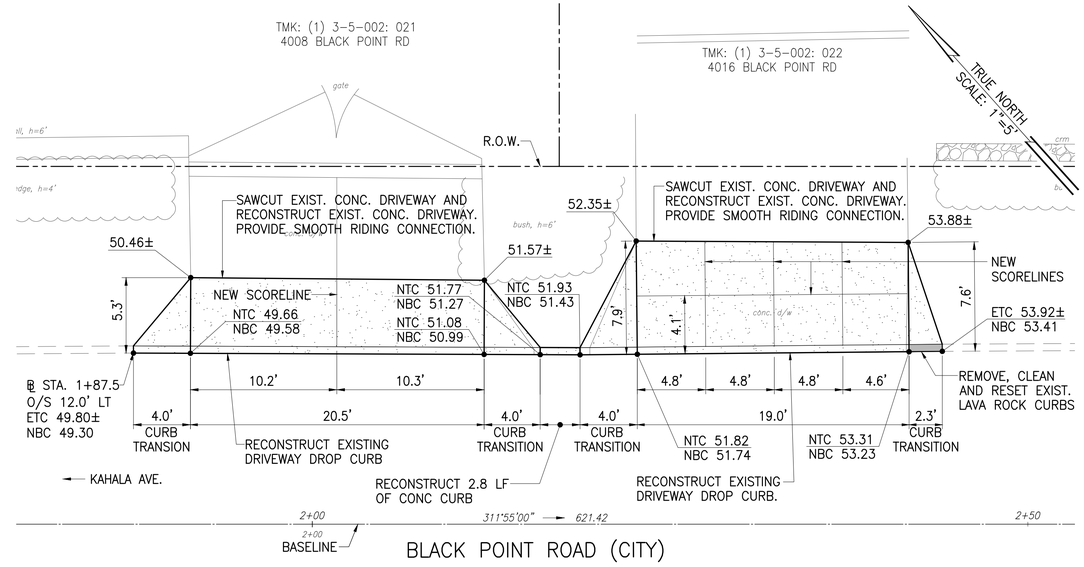
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\52 PLAN - RECONSTRUCT DRIVEWAY 1 - 3 18TH AVENUE.DWG
JOB NO. 0-20-024
040125



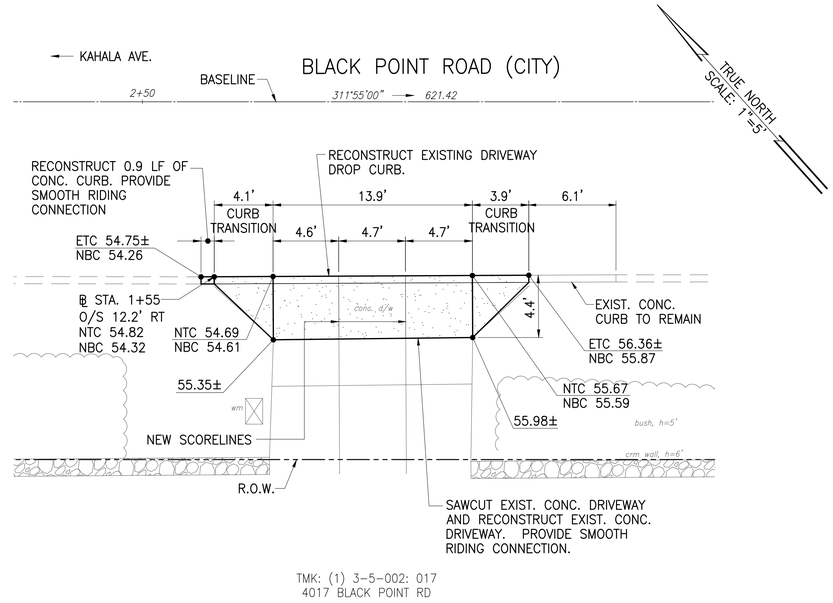
PLAN – RECONSTRUCT DRIVEWAY 1 AND 2

SCALE: 1"=5'



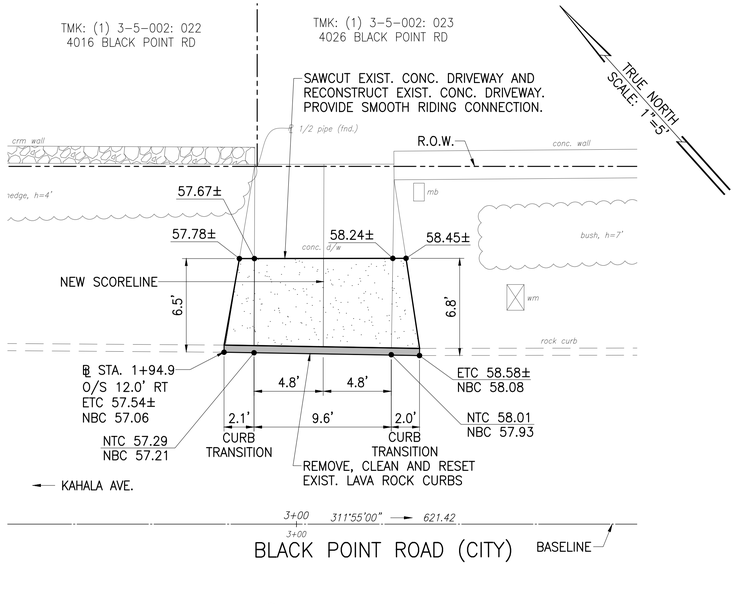
PLAN – RECONSTRUCT DRIVEWAY 3 AND 4

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 5

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 6

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

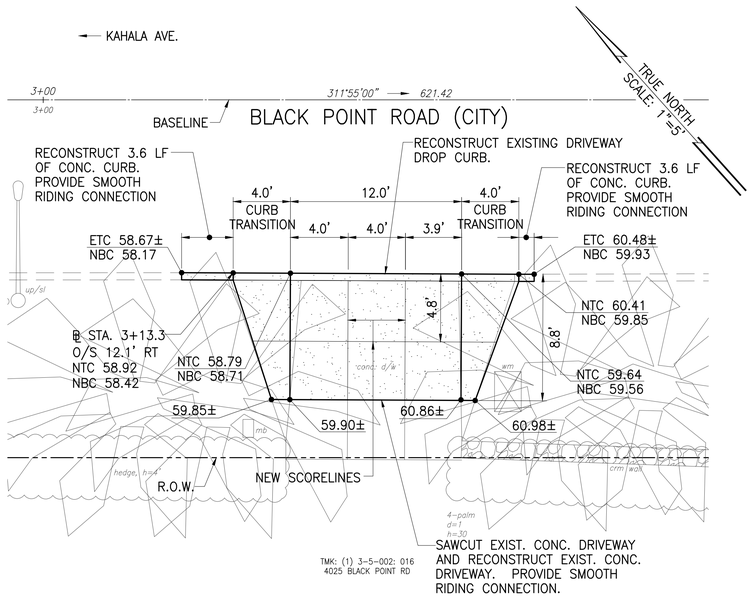
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 1 - 6
BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C052
DRAWN	MV		SHEET NO. 53
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

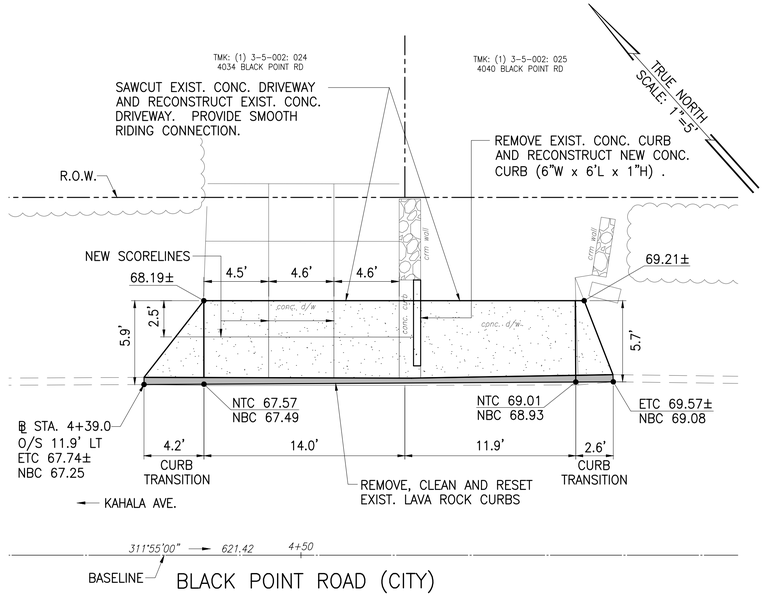
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\53 PLAN – RECONSTRUCT DRIVEWAY 1 – 6 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
040125



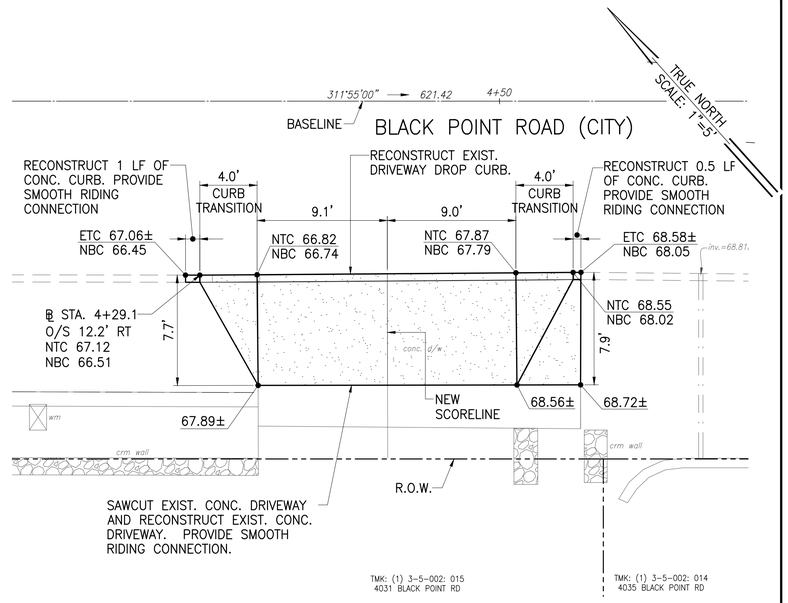
PLAN – RECONSTRUCT DRIVEWAY 7

SCALE: 1"=5'



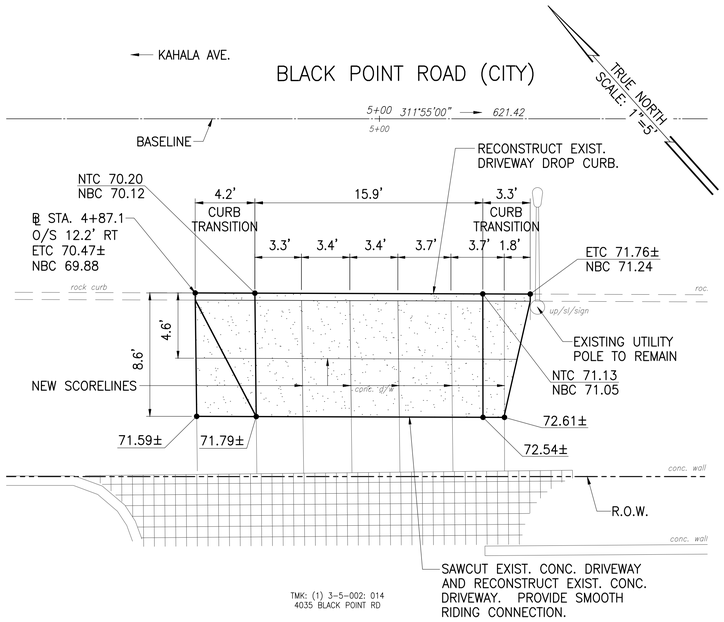
PLAN – RECONSTRUCT DRIVEWAY 8

SCALE: 1"=5'



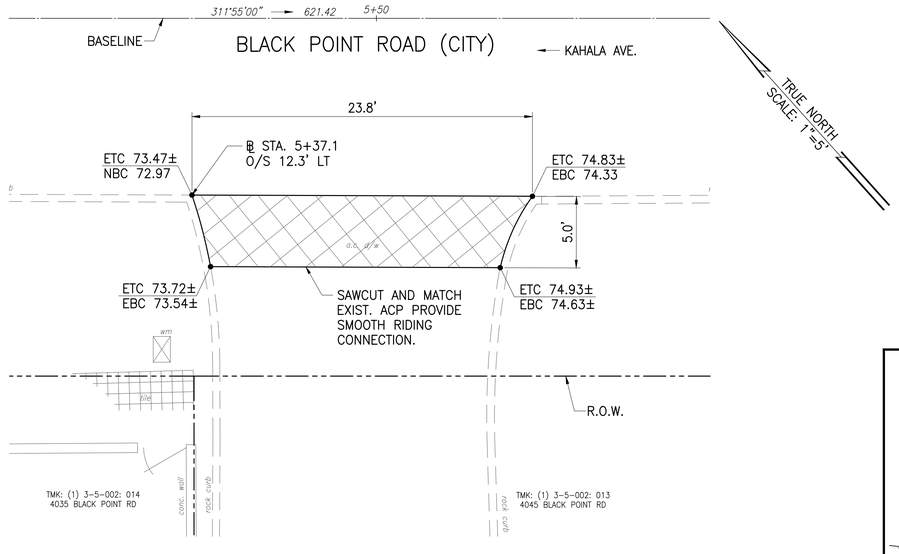
PLAN – RECONSTRUCT DRIVEWAY 9

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 10

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 11

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

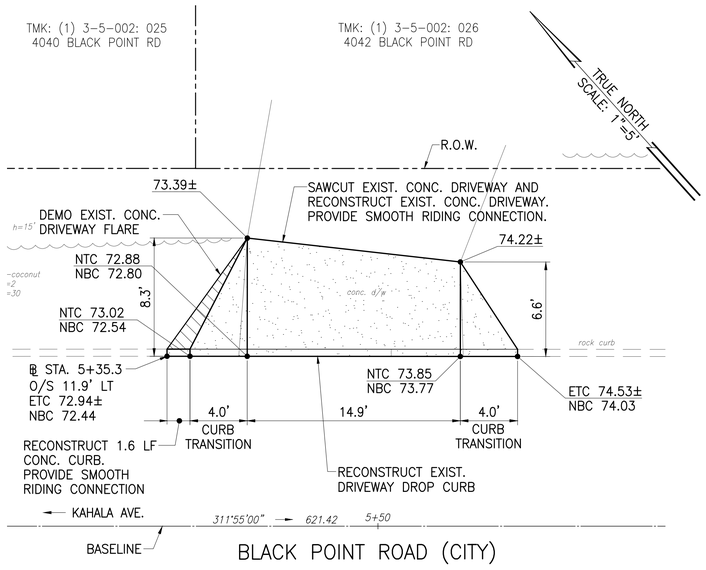
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 7 - 11 BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C053
DRAWN	MV		SHEET NO. 54
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

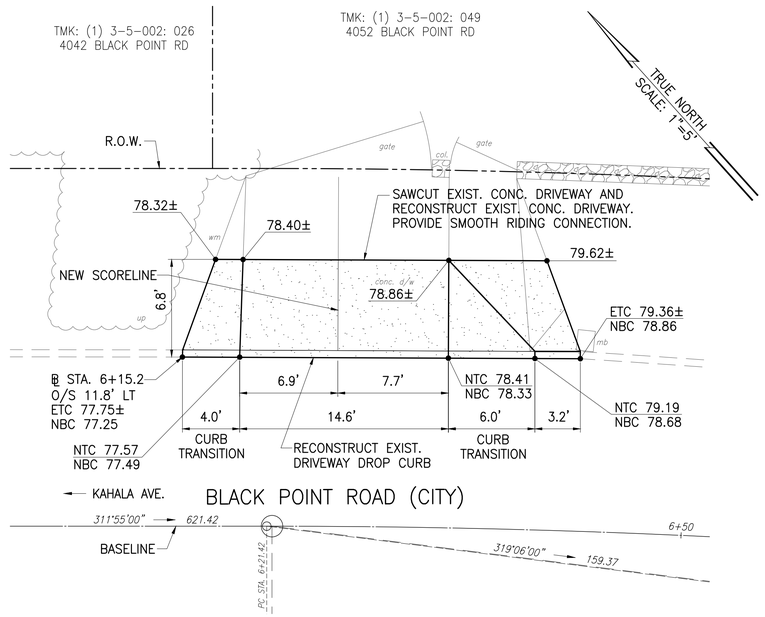
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\54 PLAN – RECONSTRUCT DRIVEWAY 7 – 11 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
040125



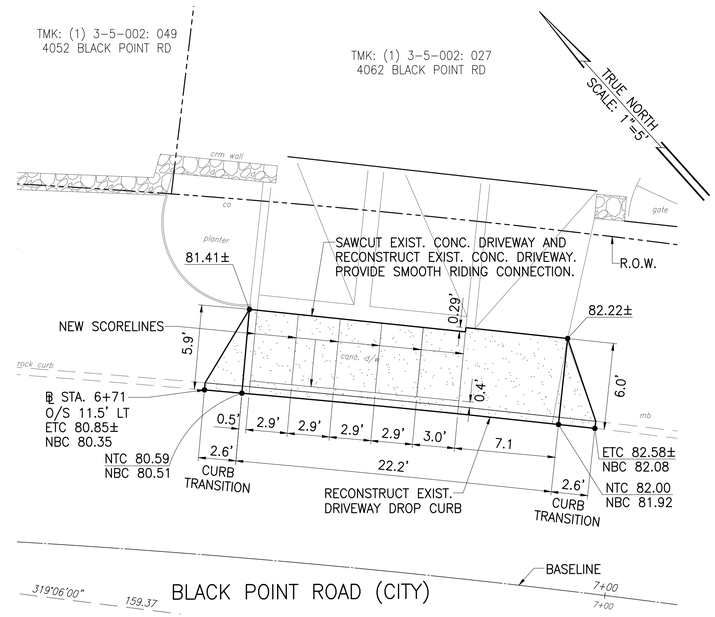
PLAN – RECONSTRUCT DRIVEWAY 12

SCALE: 1"=5'



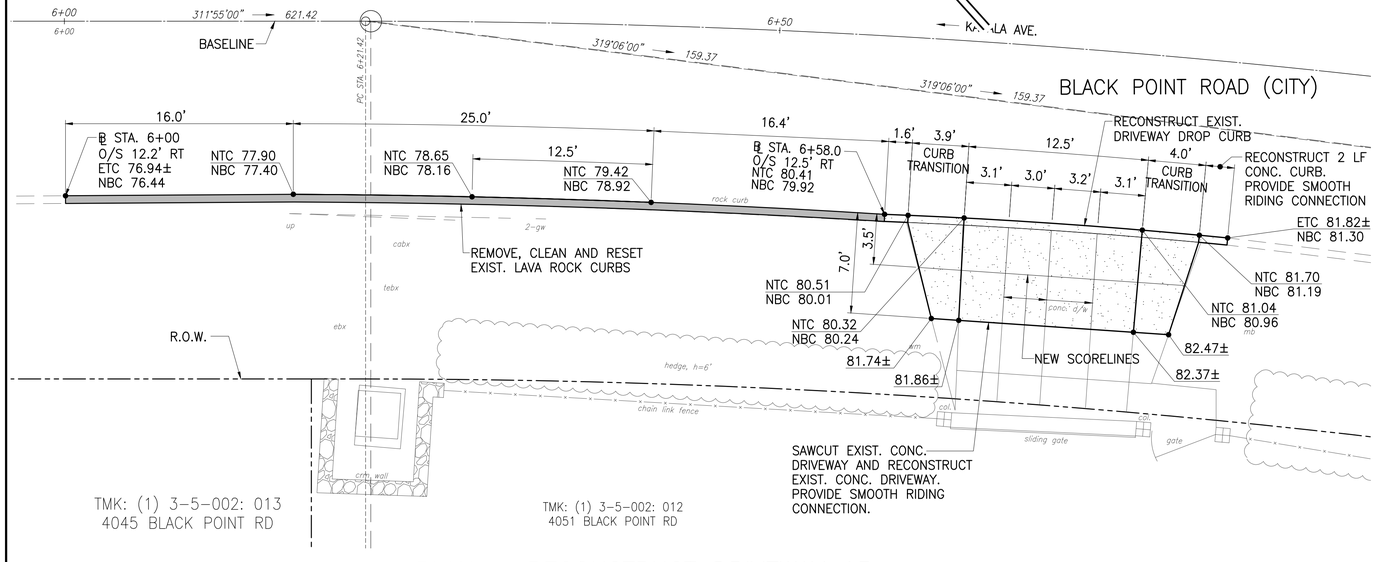
PLAN – RECONSTRUCT DRIVEWAY 13

SCALE: 1"=5'



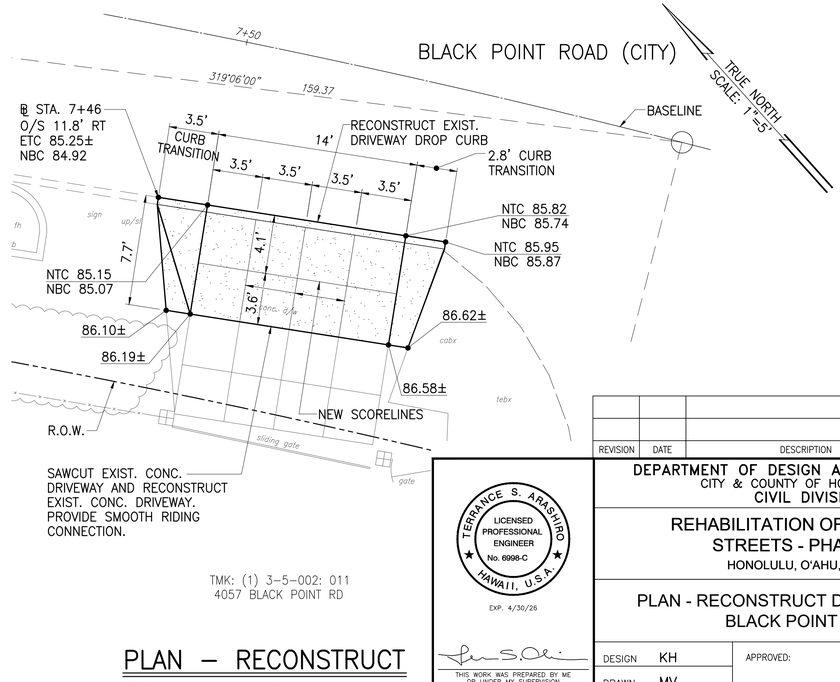
PLAN – RECONSTRUCT DRIVEWAY 14

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 15

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 16

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS · SURVEYORS · HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

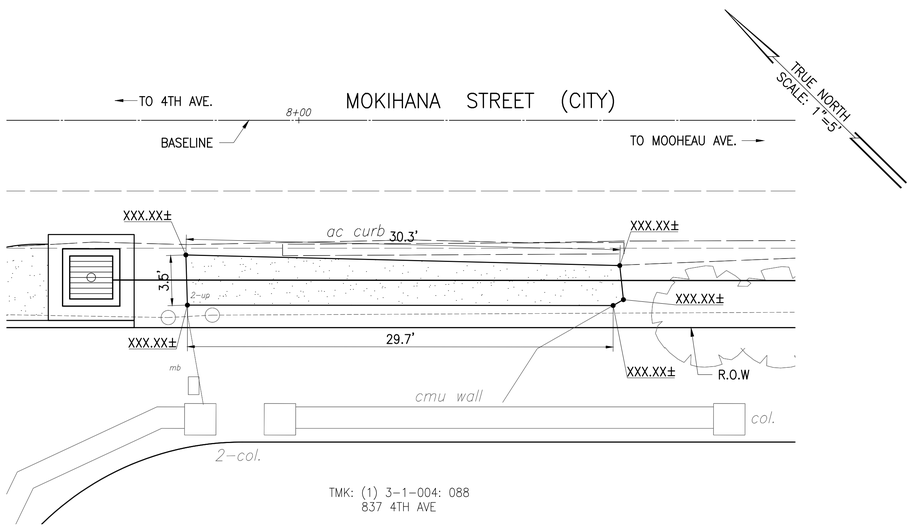
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 12 - 16
BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C054
DRAWN	MV		SHEET NO. 55
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

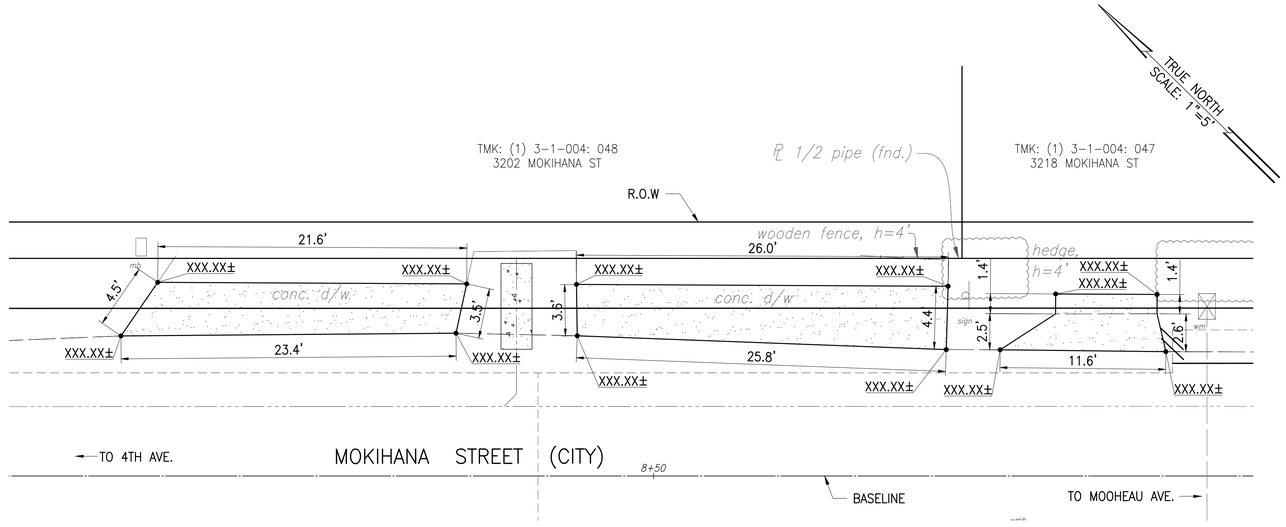
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E)\NIKKI\DWG\55 PLAN – RECONSTRUCT DRIVEWAY 12 – 16 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
040125



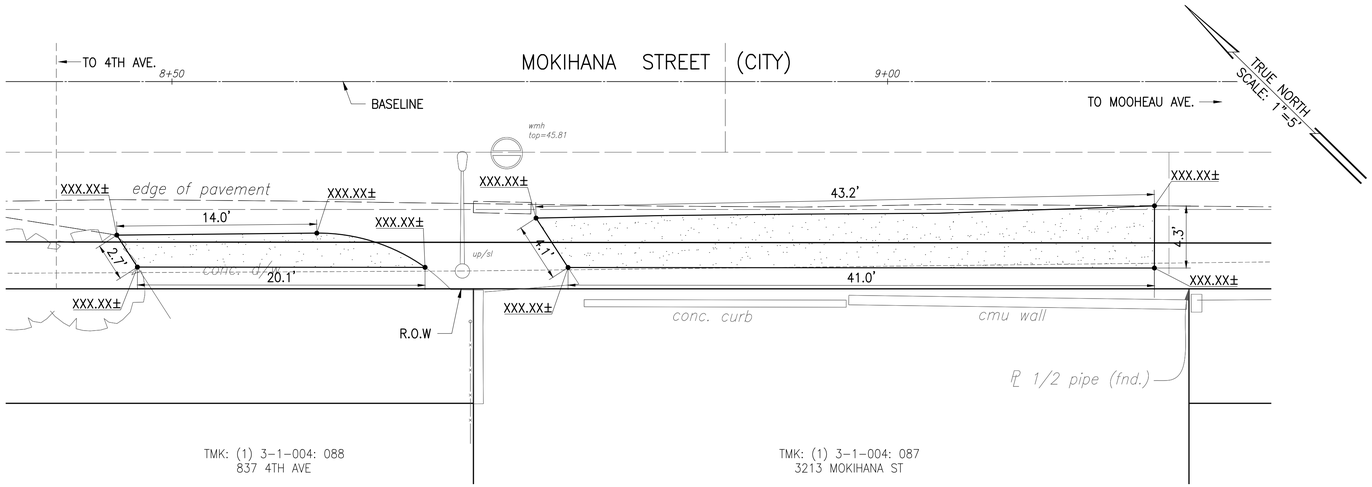
PLAN – RECONSTRUCT DRIVEWAY 1

SCALE: 1"=5'



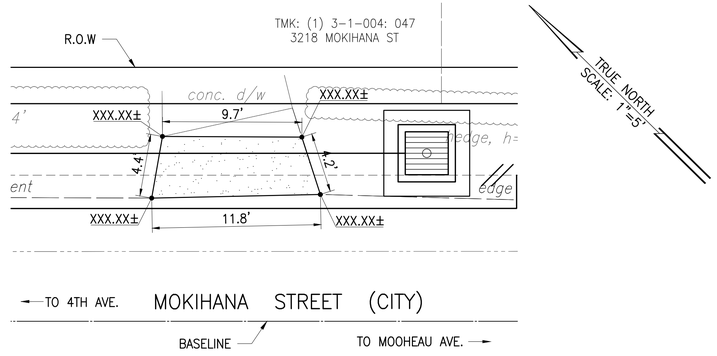
PLAN – RECONSTRUCT DRIVEWAY 2, 3 & 4

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 5 & 6

SCALE: 1"=5'



PLAN – RECONSTRUCT DRIVEWAY 7

SCALE: 1"=5'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CIVIL ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

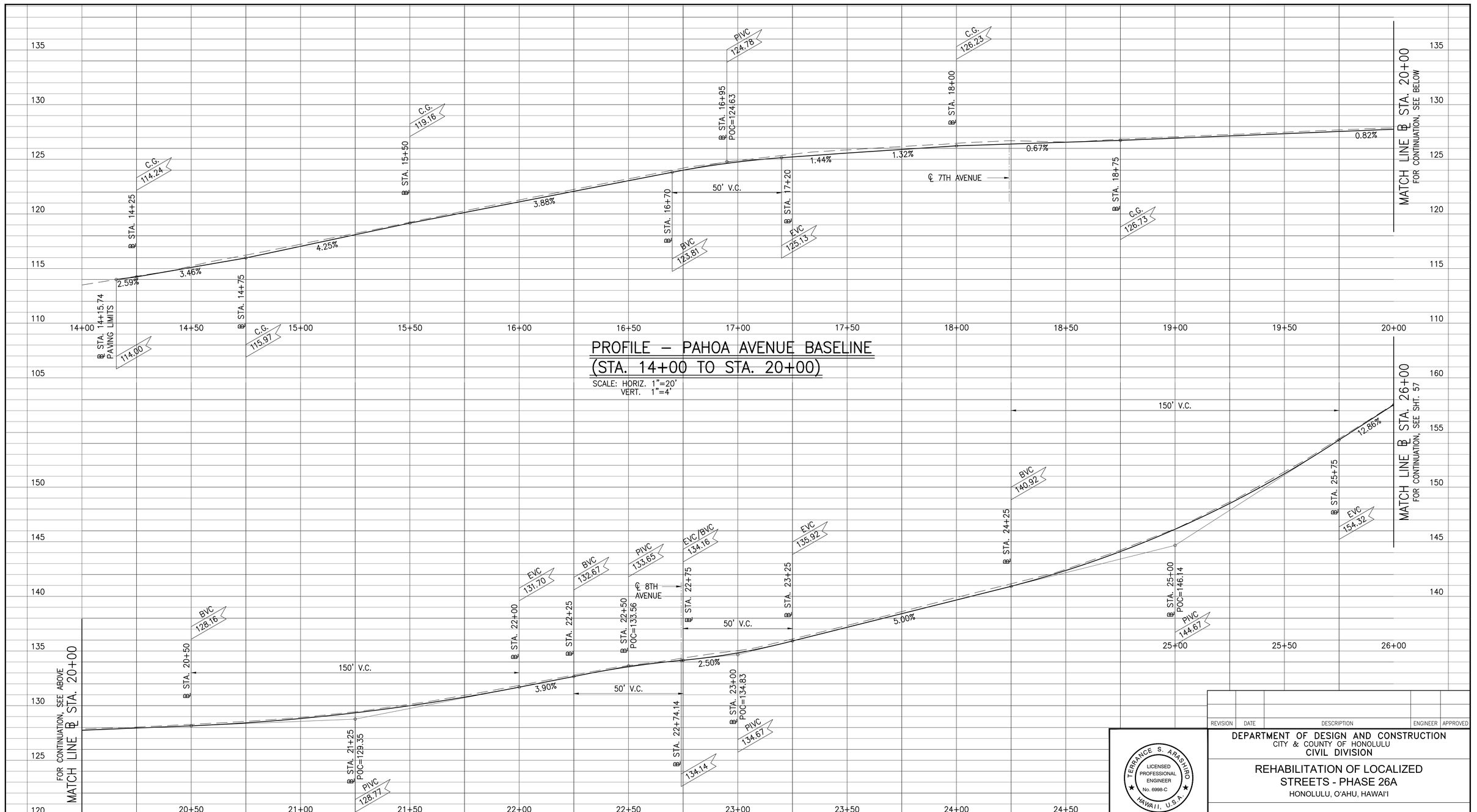
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PLAN - RECONSTRUCT DRIVEWAY 1 - 7
MOKIHANA STREET

DESIGN	KH	APPROVED:	DRAWING NO. C054A
DRAWN	MV		SHEET NO. 55A
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\55A PLAN - RECONSTRUCT DRIVEWAY 1 - 7 MOKIHANA STREET.DWG
JOB NO. 0-20-024
040125



REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

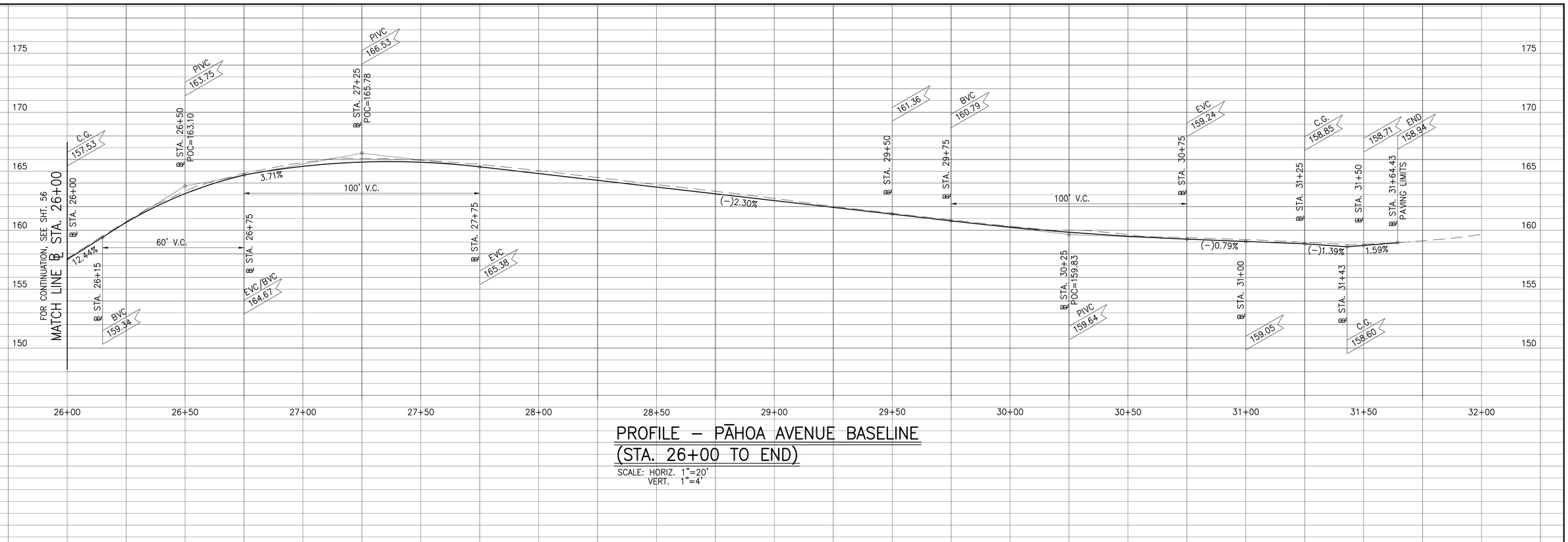
HONOLULU, O'AHU, HAWAI'I

PROFILE - 1 PĀHOA AVENUE BASELINE

DESIGN	KH	APPROVED:	DRAWING NO. C055
DRAWN	MV		SHEET NO. 56
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E)\NIKKI\DWG\56 – PROFILE 1 PAHOA AVENUE BASELINE.DWG
JOB NO. 0-20-024
040125



PROFILE – PĀHOA AVENUE BASELINE (STA. 26+00 TO END)

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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ENGINEERS SURVEYORS — HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

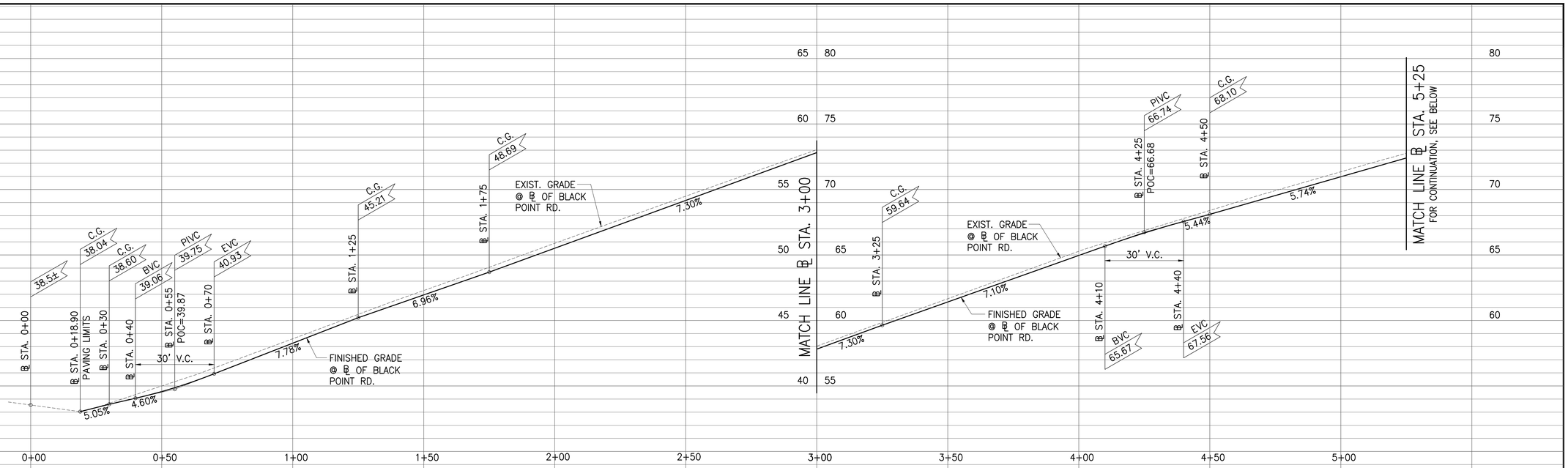
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PROFILE - 2 PĀHOA AVENUE BASELINE

DESIGN	KH	APPROVED:	DRAWING NO. C056
DRAWN	MV		SHEET NO. 57
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

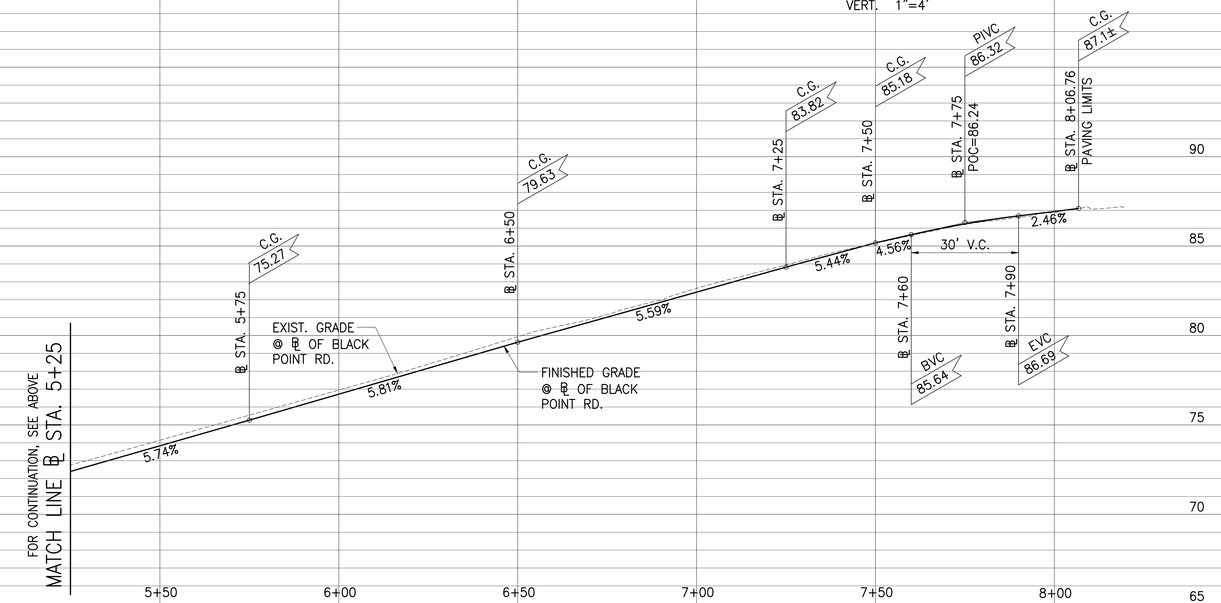
FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLS – PHASE 26A – KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\57 PROFILE – 2 PAHOA AVENUE BASELINE.DWG
JOB NO. 0-20-024
051325



PROFILE – BLACK POINT ROAD BASELINE (STA. 0+50 TO STA. 5+25)

SCALE: HORIZ. 1"=20'
VERT. 1"=4'



PROFILE – BLACK POINT ROAD BASELINE (STA. 5+25 TO END)

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PROFLE - 3 BLACK POINT ROAD BASELINE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

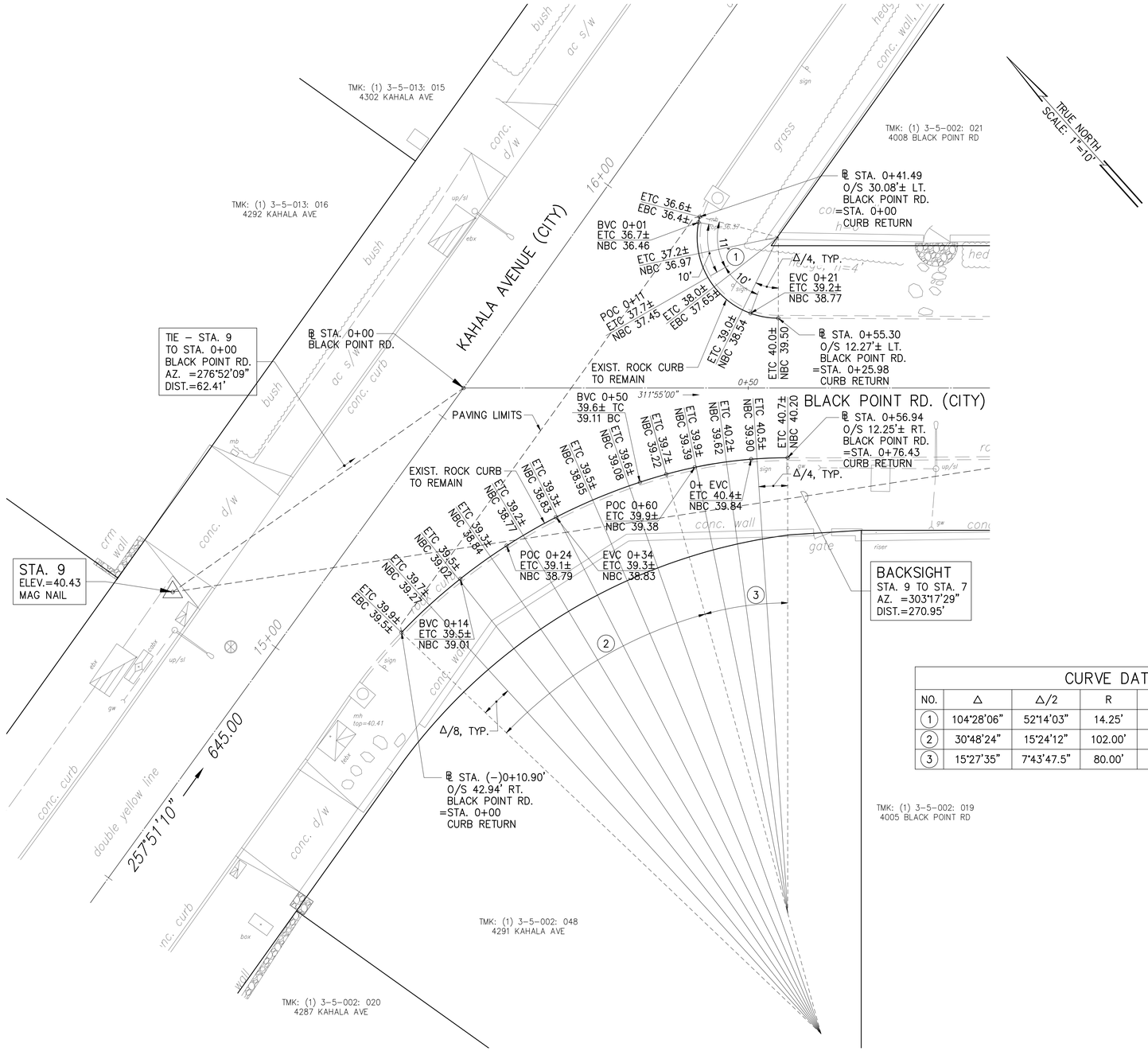
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C057
SHEET NO. 58
OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\58 PROFILE - 3 BLACK POINT ROAD BASELINE.DWG
JOB NO. 0-20-024
040125



CURVE DATA

NO.	Δ	Δ/2	R	T	Ch	Lc
(1)	104°28'06"	52°14'03"	14.25'	18.39'	22.53'	25.98'
(2)	30°48'24"	15°24'12"	102.00'	28.10'	54.18'	54.84'
(3)	15°27'35"	7°43'47.5"	80.00'	10.86'	21.52'	21.59'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

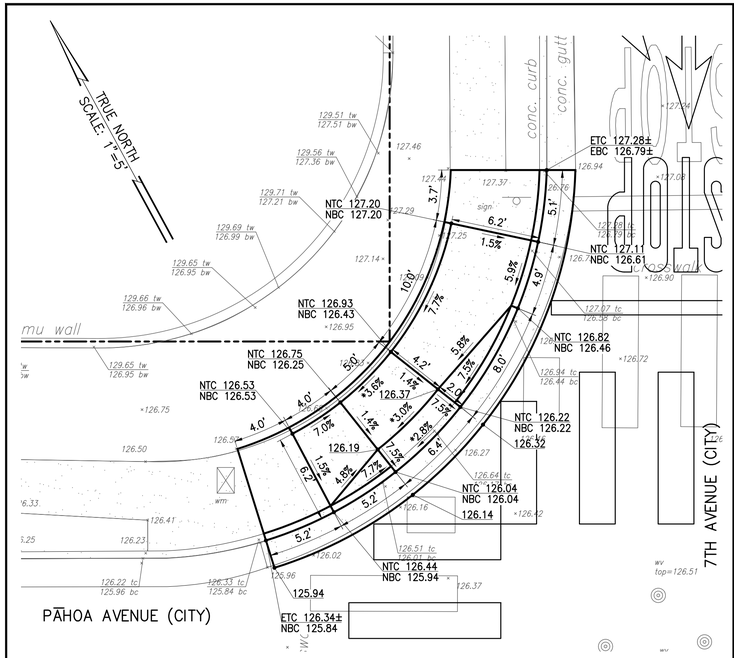
HONOLULU, O'AHU, HAWAI'I

CURB RETURN GRADES - BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C058
DRAWN	MV		SHEET NO. 59
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

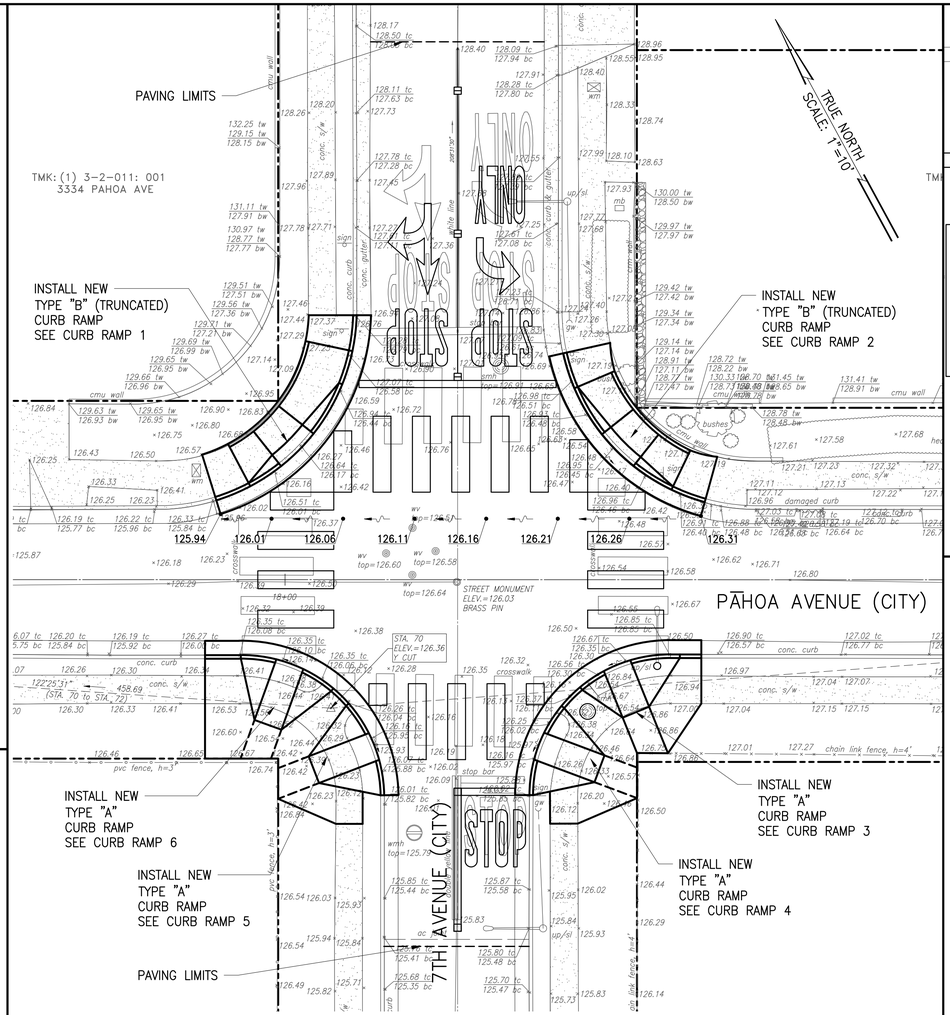
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JOB NO. 0-20-024
040125



CURB RAMP 1

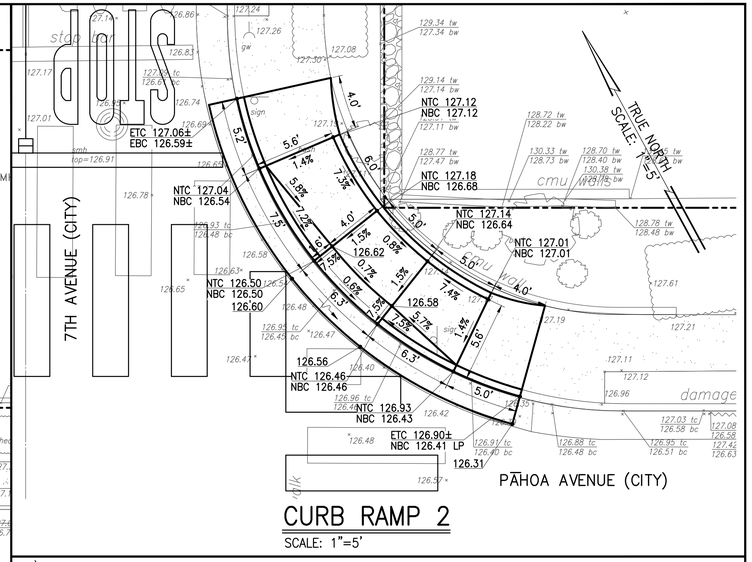
SCALE: 1"=5'

* TI STATEMENT TO BE FILED



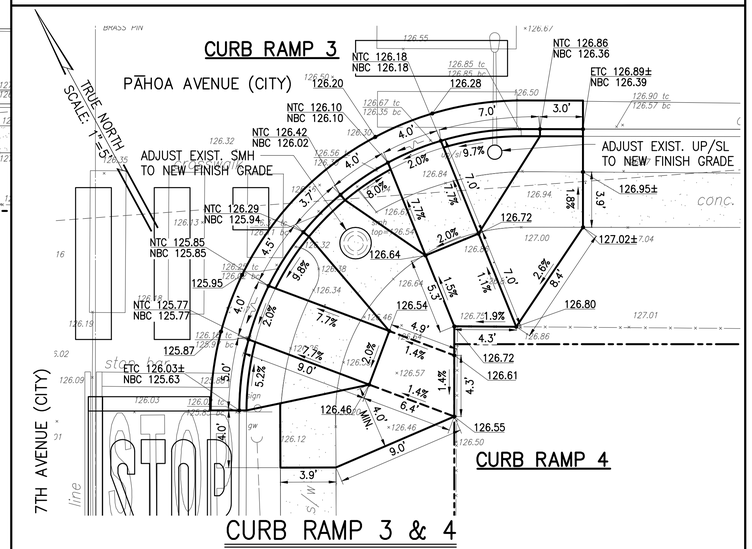
CURB RAMP PLAN

SCALE: 1"=10'



CURB RAMP 2

SCALE: 1"=5'



CURB RAMP 3

CURB RAMP 4

SCALE: 1"=5'

CURB RAMP 5

CURB RAMP 5 & 6

SCALE: 1"=5'

NOTES:

1. SEE SHEET NO. 63 AND 64 FOR CURB RAMP AND MISCELLANEOUS DETAILS.
2. FOR ADA CURB RAMP COMPLIANCE, THE MAXIMUM CURB RAMP/TRANSITION SLOPES SHOWN ON THE CURB RAMP TYPICAL DETAILS SHALL GOVERN OVER THE CURB RAMP CALCULATED SLOPES SHOWN ON THE PLANS, UNLESS A TECHNICAL INFEASIBILITY (TI) STATEMENT HAS BEEN FILED. IF A TI STATEMENT HAS BEEN FILED, THOSE RAMP SLOPES REFLECTED ON THE TI SHALL GOVERN. THE CONSTRUCTION TOLERANCES FOR ADA CURB RAMP SLOPES PROVIDED IN THE SP SECTION FOR CURB RAMPS, WILL BE APPLIED, AS APPLICABLE, TO THE MAXIMUM SLOPE REQUIREMENTS REFLECTED ON THIS PROJECT'S CURB RAMP TYPICAL DETAIL(S) OR THE SLOPES REFLECTED IN THE TI, WHICHEVER IS GREATER.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CURB RAMP PLAN - 1

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

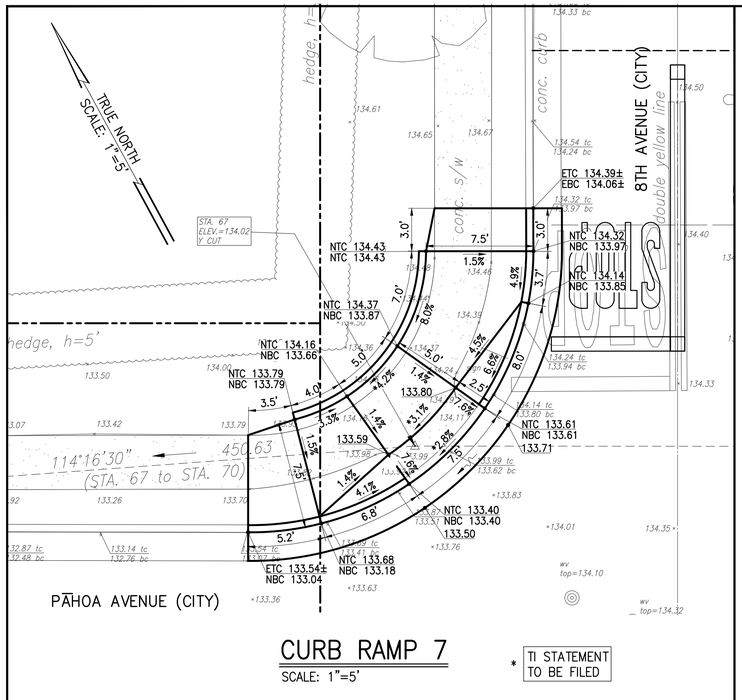
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DESIGN	KH	APPROVED:	DRAWING NO. C059
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 60
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

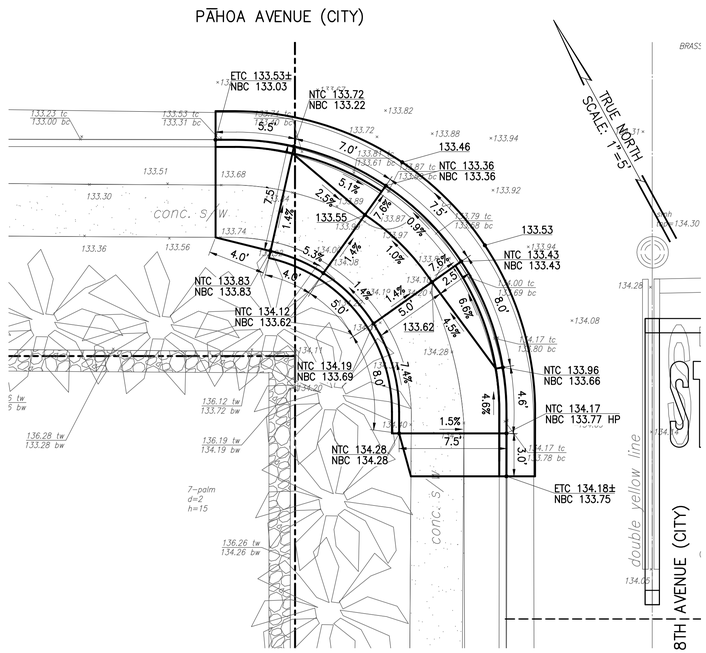
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\60 CURB RAMP DETAILS - 1.DWG
JOB NO. 0-20-024
040125



CURB RAMP 7

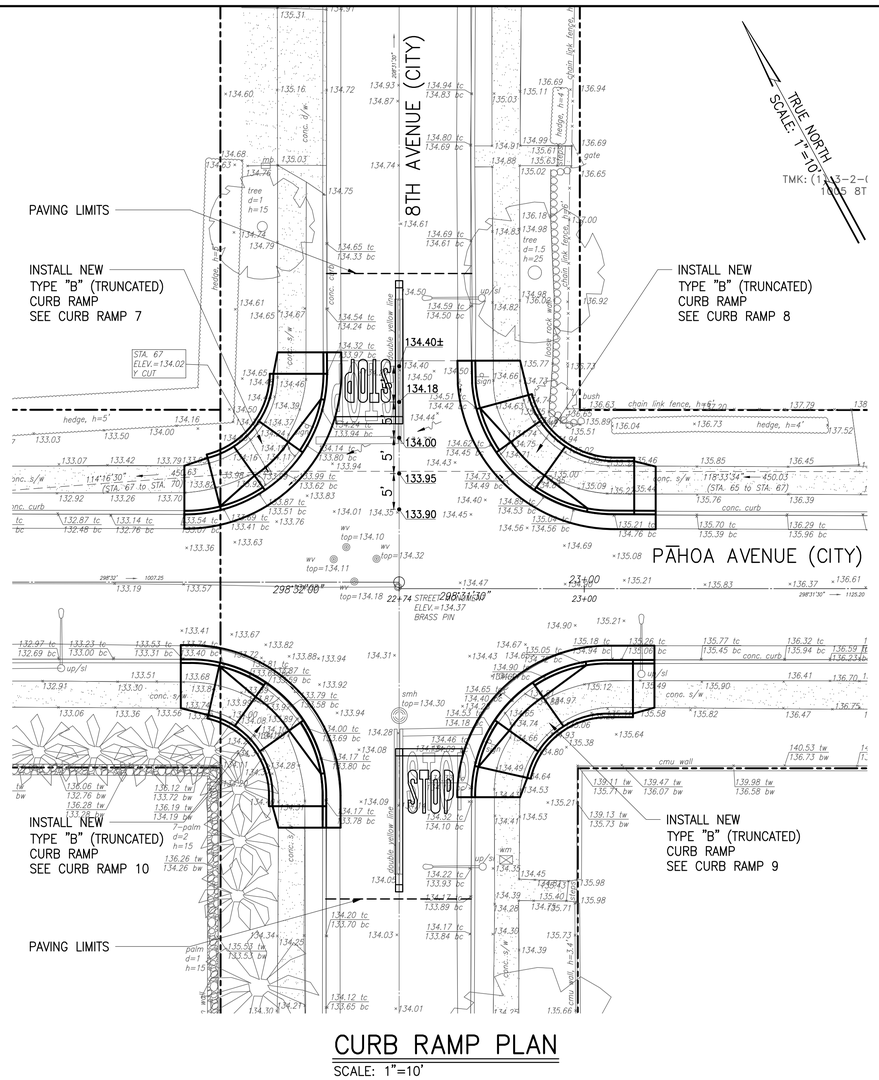
SCALE: 1"=5'

* TI STATEMENT TO BE FILED



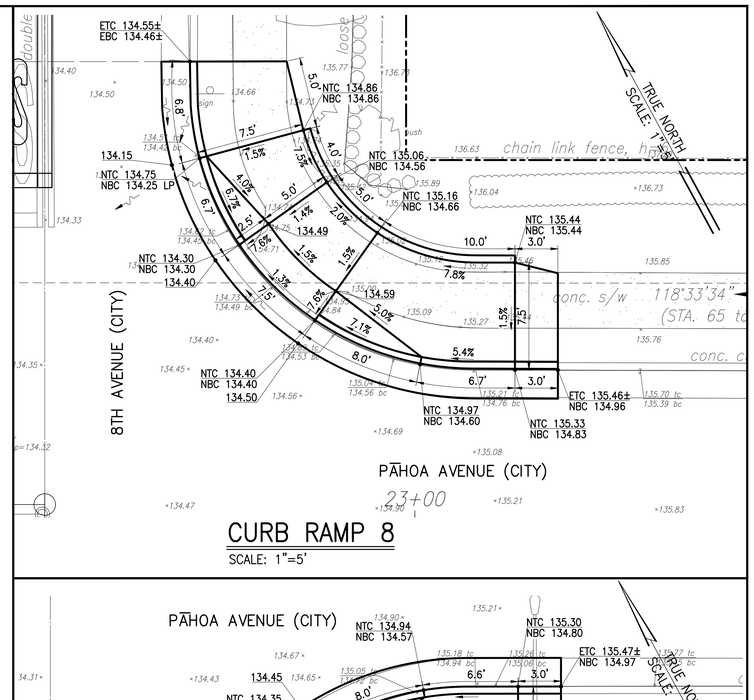
CURB RAMP 10

SCALE: 1"=5'



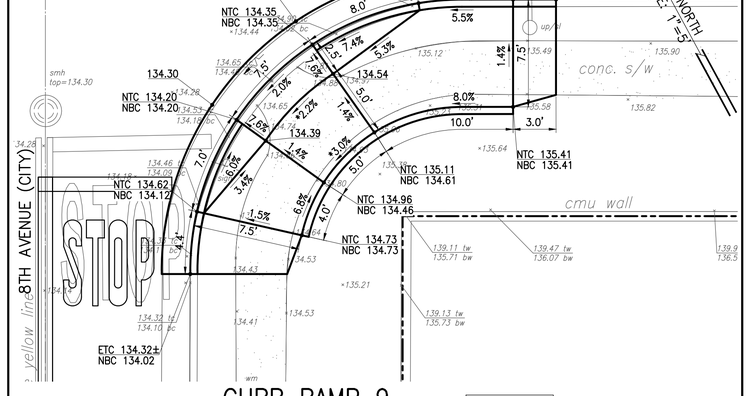
CURB RAMP PLAN

SCALE: 1"=10'



CURB RAMP 8

SCALE: 1"=5'



CURB RAMP 9

SCALE: 1"=5'

* TI STATEMENT TO BE FILED

NOTES:

1. SEE SHEET NO. 63 AND 64 FOR CURB RAMP AND MISCELLANEOUS DETAILS.
2. FOR ADA CURB RAMP COMPLIANCE, THE MAXIMUM CURB RAMP/TRANSITION SLOPES SHOWN ON THE CURB RAMP TYPICAL DETAILS SHALL GOVERN OVER THE CURB RAMP CALCULATED SLOPES SHOWN ON THE PLANS, UNLESS A TECHNICAL INFEASIBILITY (TI) STATEMENT HAS BEEN FILED. IF A TI STATEMENT HAS BEEN FILED, THOSE RAMP SLOPES REFLECTED ON THE TI SHALL GOVERN. THE CONSTRUCTION TOLERANCES FOR ADA CURB RAMP SLOPES PROVIDED IN THE SP SECTION FOR CURB RAMPS, WILL BE APPLIED, AS APPLICABLE, TO THE MAXIMUM SLOPE REQUIREMENTS REFLECTED ON THIS PROJECT'S CURB RAMP TYPICAL DETAIL(S) OR THE SLOPES REFLECTED IN THE TI, WHICHEVER IS GREATER.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

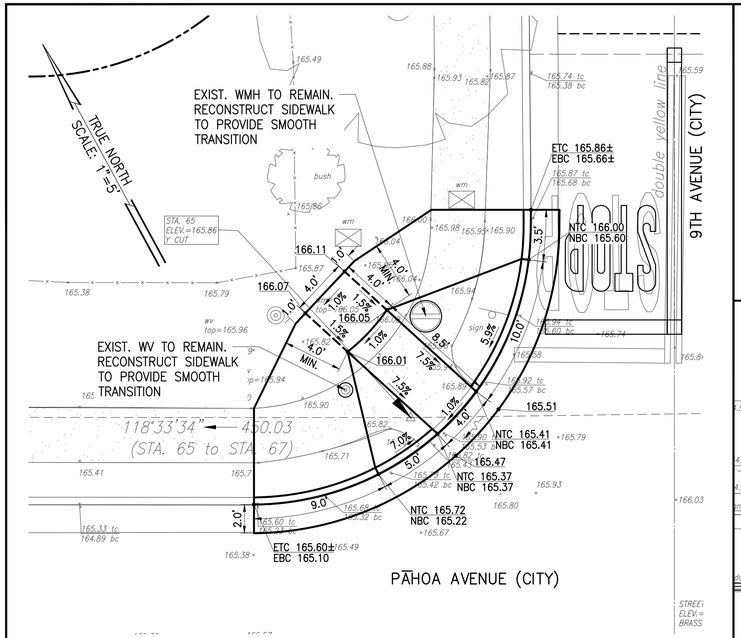
HONOLULU, O'AHU, HAWAI'I

CURB RAMP PLAN - 2

DESIGN	KH	APPROVED:	DRAWING NO. C060
DRAWN	MV		SHEET NO. 61
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

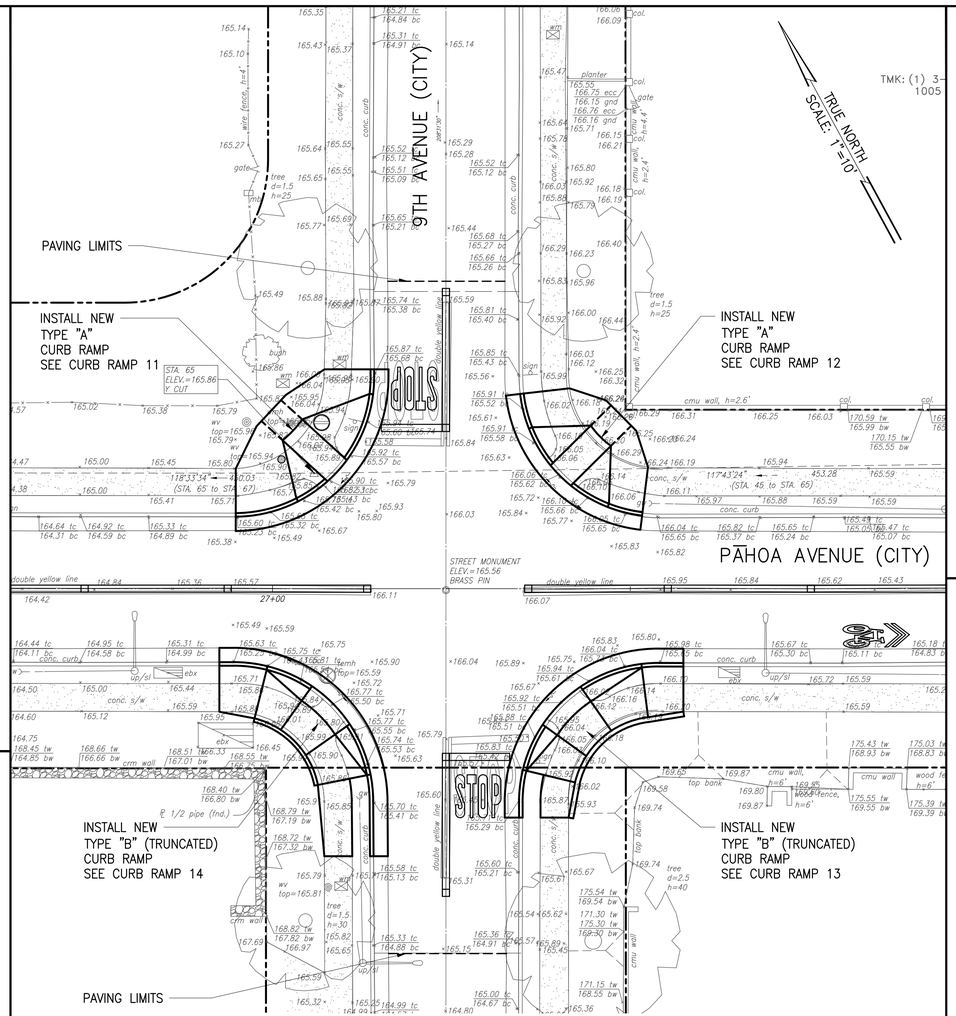
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMP'S PS & E) NIKK\DWG\61 CURB RAMP DETAILS - 2.DWG
JOB NO. 0-20-024
040125



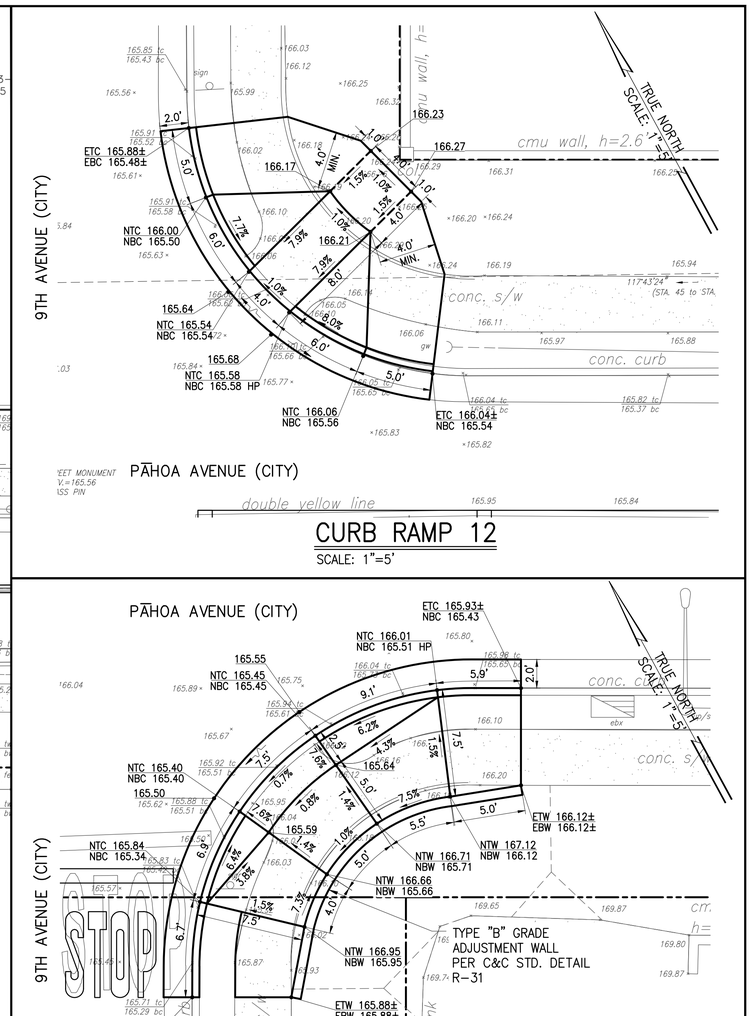
CURB RAMP 11

SCALE: 1"=5'



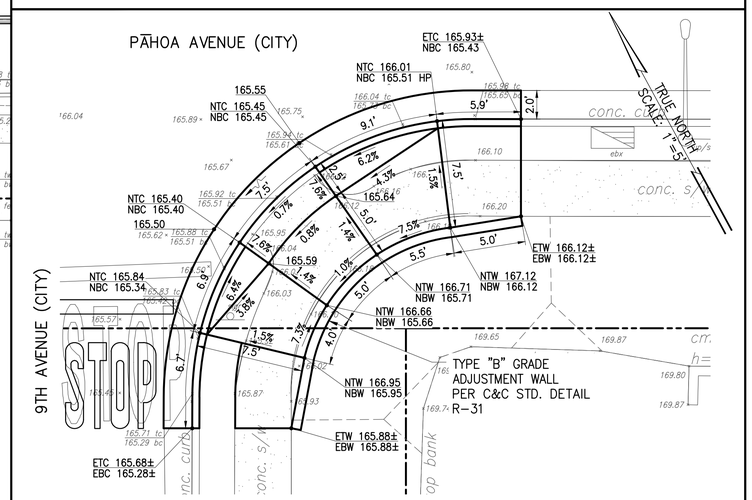
CURB RAMP PLAN

SCALE: 1"=10'



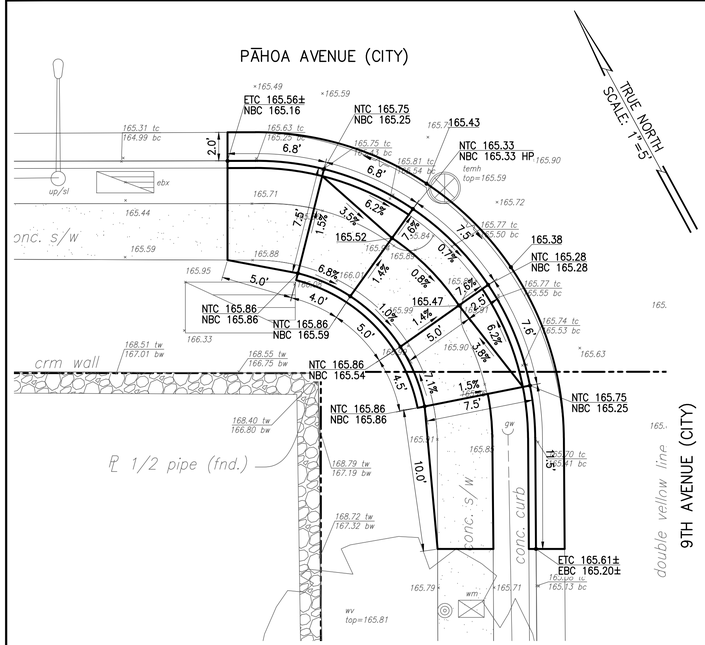
CURB RAMP 12

SCALE: 1"=5'



CURB RAMP 13

SCALE: 1"=5'



CURB RAMP 14

SCALE: 1"=5'

NOTES:

1. SEE SHEET NO. 63 AND 64 FOR CURB RAMP AND MISCELLANEOUS DETAILS.
2. FOR ADA CURB RAMP COMPLIANCE, THE MAXIMUM CURB RAMP/TRANSITION SLOPES SHOWN ON THE CURB RAMP TYPICAL DETAILS SHALL GOVERN OVER THE CURB RAMP CALCULATED SLOPES SHOWN ON THE PLANS, UNLESS A TECHNICAL INFEASIBILITY (TI) STATEMENT HAS BEEN FILED. IF A TI STATEMENT HAS BEEN FILED, THOSE RAMP SLOPES REFLECTED ON THE TI SHALL GOVERN. THE CONSTRUCTION TOLERANCES FOR ADA CURB RAMP SLOPES PROVIDED IN THE SP SECTION FOR CURB RAMPS, WILL BE APPLIED, AS APPLICABLE, TO THE MAXIMUM SLOPE REQUIREMENTS REFLECTED ON THIS PROJECT'S CURB RAMP TYPICAL DETAIL(S) OR THE SLOPES REFLECTED IN THE TI, WHICHEVER IS GREATER.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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

ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS · SURVEYORS · HONOLULU HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

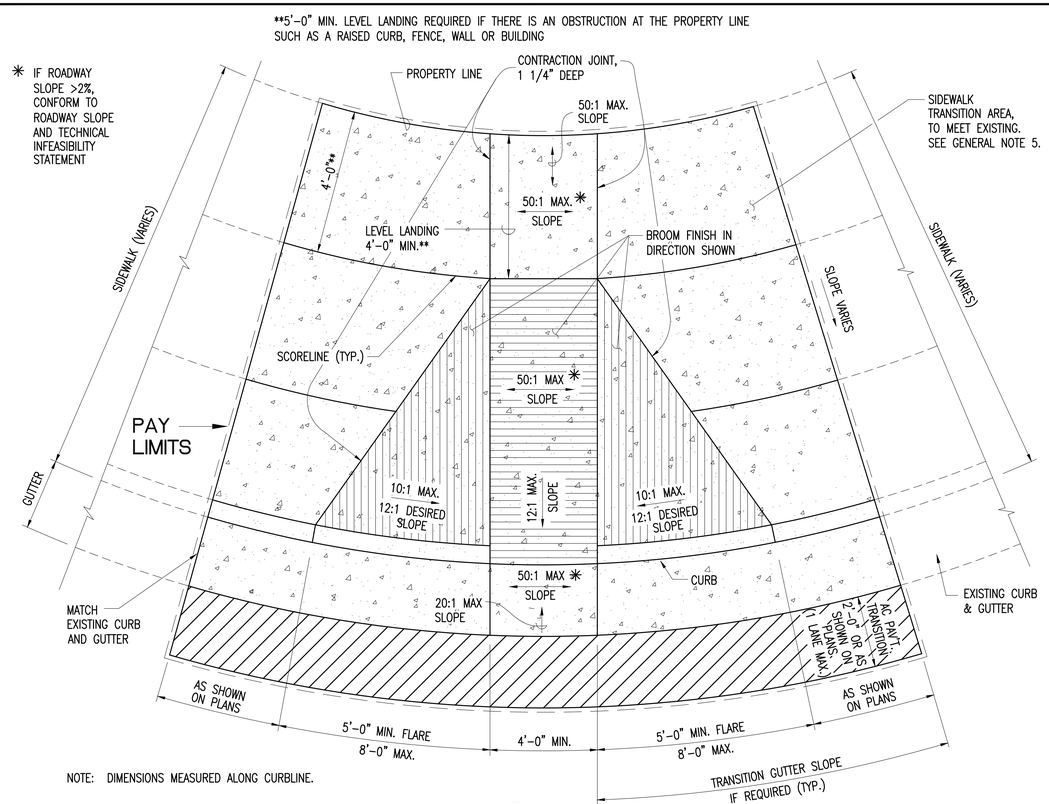
HONOLULU, O'AHU, HAWAI'I

CURB RAMP PLAN - 3

DESIGN	KH	APPROVED:	DRAWING NO. C061
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 62
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

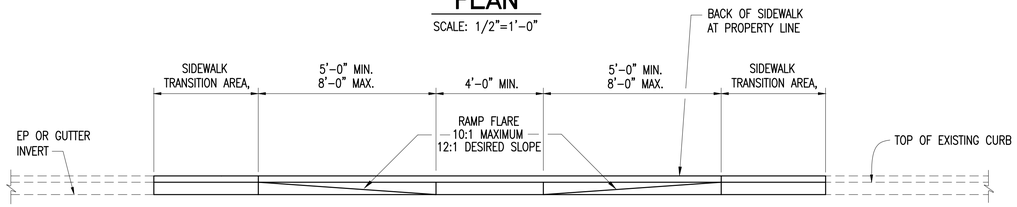
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\62 CURB RAMP DETAILS - 3.DWG
JOB NO. 0-20-024
040125



NOTE: DIMENSIONS MEASURED ALONG CURBLINE.

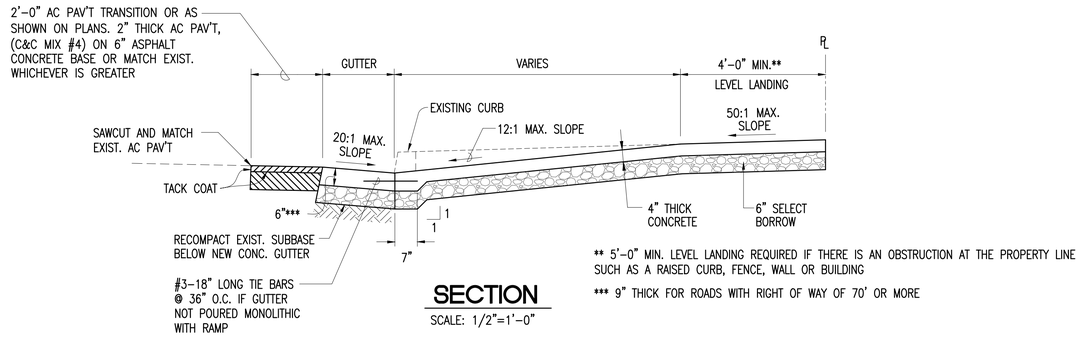
PLAN

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



ELEVATION

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



SECTION

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

** 5'-0" MIN. LEVEL LANDING REQUIRED IF THERE IS AN OBSTRUCTION AT THE PROPERTY LINE SUCH AS A RAISED CURB, FENCE, WALL OR BUILDING

*** 9" THICK FOR ROADS WITH RIGHT OF WAY OF 70' OR MORE

CURB RAMP - TYPE "A"

CURB RAMP GENERAL NOTES

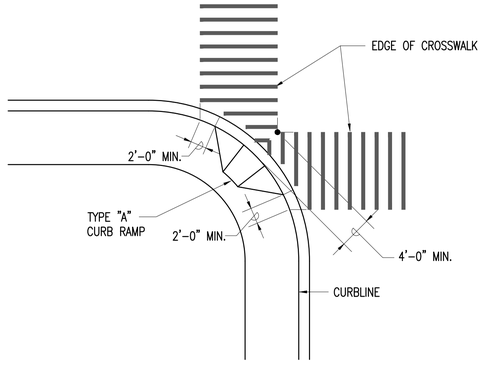
1. FOR ADA CURB RAMP COMPLIANCE, THE MAXIMUM CURB RAMP/TRANSITION SLOPES SHOWN ON THE CURB RAMP TYPICAL DETAILS SHALL GOVERN OVER THE CURB RAMP CALCULATED SLOPES SHOWN ON THE PLANS, UNLESS A TECHNICAL INFEASIBILITY (TI) STATEMENT HAS BEEN FILED. IF A TI STATEMENT HAS BEEN FILED, THOSE RAMP SLOPES REFLECTED ON THE TI SHALL GOVERN. THE CONSTRUCTION TOLERANCES FOR ADA CURB RAMP SLOPES PROVIDED IN THE SP SECTION FOR CURB RAMPS, WILL BE APPLIED, AS APPLICABLE, TO THE MAXIMUM SLOPE REQUIREMENTS REFLECTED ON THIS PROJECT'S CURB RAMP TYPICAL DETAIL(S) OR THE SLOPES REFLECTED IN THE TI, WHICHEVER IS GREATER.

2. PAY LIMITS FOR THE VARIOUS TYPES OF CURB RAMPS ARE AS SHOWN ON THESE TYPICAL DETAILS, AND AS DESCRIBED IN THE SP SECTION FOR CURB RAMPS.

3. FOR CURB RAMPS AT CURB RETURNS, INSTALL EXPANSION JOINTS PER STANDARD DETAIL R-27, FULL WIDTH SIDEWALK AT CURB RETURN. EXPANSION JOINTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. EXPANSION JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE CURB RAMP CONTRACT ITEMS.

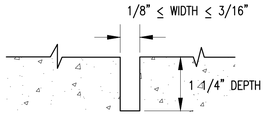
4. UTILITY BOXES WITHIN CURB RAMPS SHALL BE REINFORCED PER STANDARD DETAIL R-16, SIDEWALK REINFORCEMENT DETAILS AT UTILITY BOXES OR OPENINGS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS FOR ADJUSTMENT OF EXISTING UTILITIES TO NEW GRADES.

5. WHEN DIRECTED BY THE ENGINEER, SIDEWALK TRANSITION AREA SHALL BE EXTENDED BEYOND SHOWN PLAN LIMITS TO MATCH THE NEAREST SCORELINE. PAYMENT FOR THIS WORK WILL BE MADE ACCORDING TO SP SECTION FOR ADDITIONAL WORK.



TYPICAL DOUBLE CROSSWALK STRIPING AT SINGLE CURB RAMP

NOT TO SCALE



CONTRACTION JOINT DETAIL

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

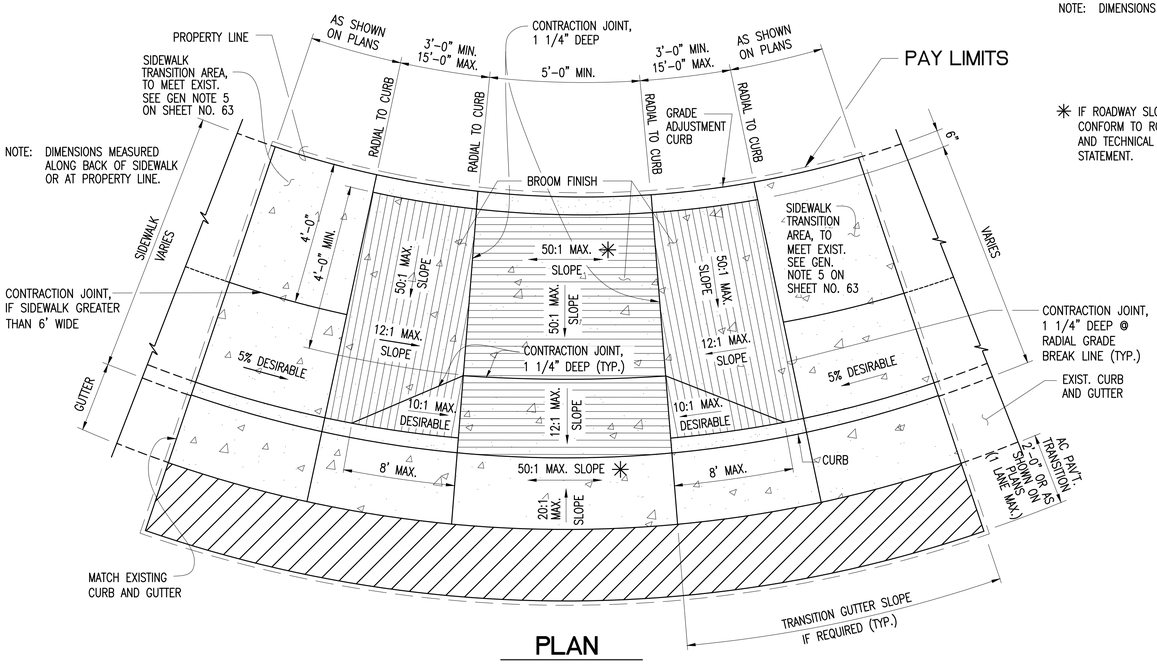
CURB RAMP TYPICAL DETAILS AND NOTES - 1

DESIGN	KH	APPROVED:	DRAWING NO. C062
DRAWN	MV		SHEET NO. 63
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\63 CURB RAMP TYPICAL DETAILS AND NOTES - 1.DWG
JOB NO. 0-20-024
0401125

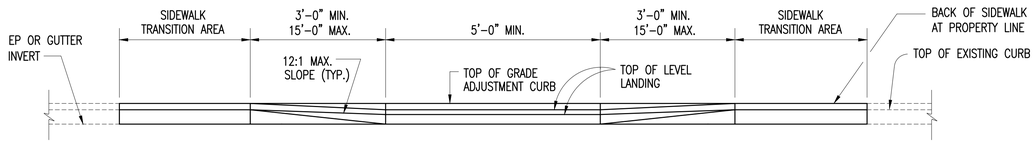
NOTE: DIMENSIONS MEASURED ALONG BACK OF SIDEWALK OR AT PROPERTY LINE.



✳ IF ROADWAY SLOPE >2%, CONFORM TO ROADWAY SLOPE AND TECHNICAL INFEASIBILITY STATEMENT.

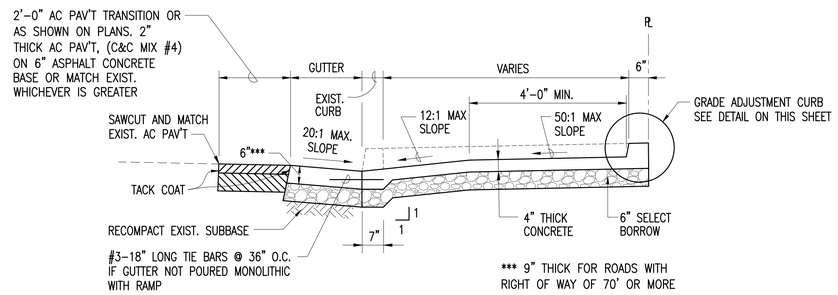
PLAN

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



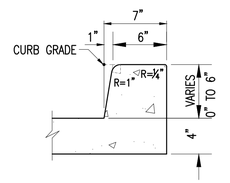
ELEVATION

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



SECTION AT LANDING

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



DETAIL - GRADE ADJUSTMENT CURB

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

CURB RAMP - TYPE "B" (TRUNCATED)

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.

EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

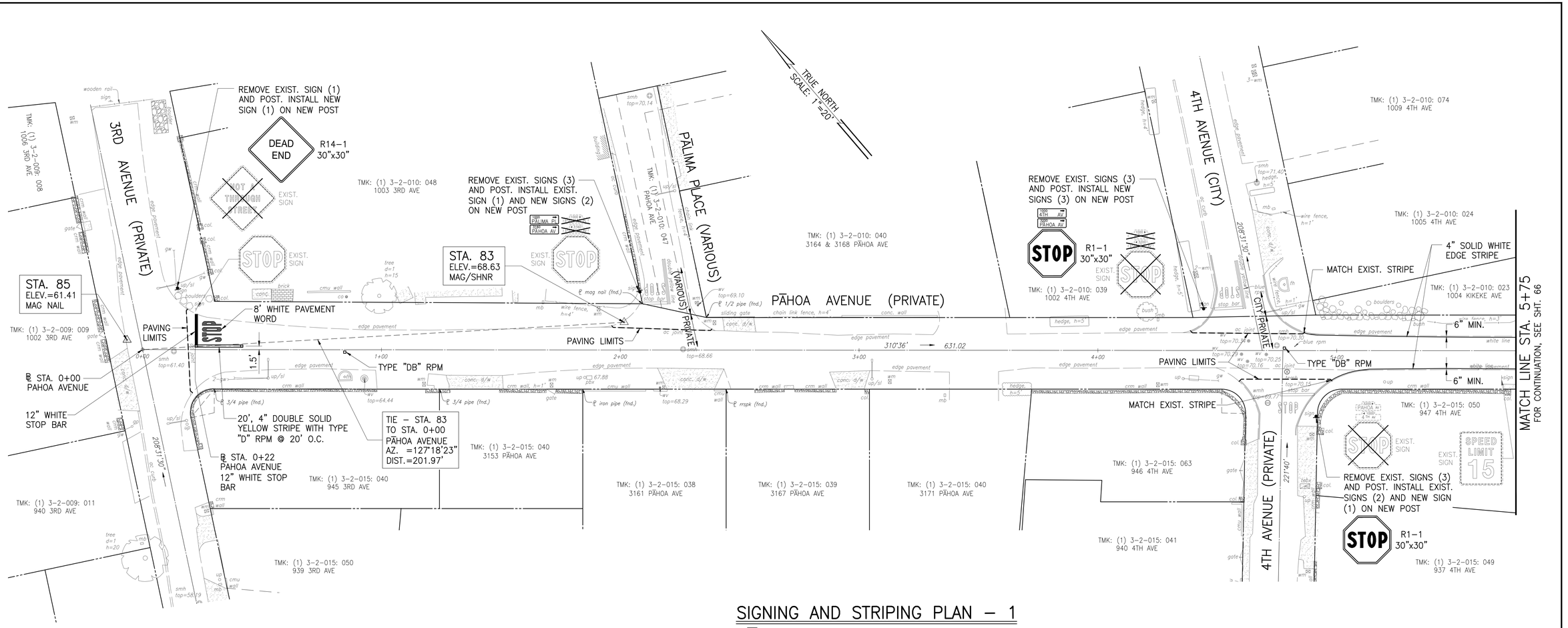
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

CURB RAMP TYPICAL DETAILS AND NOTES - 2

DESIGN	KH	APPROVED:	DRAWING NO. C063
DRAWN	MV		SHEET NO. 64
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

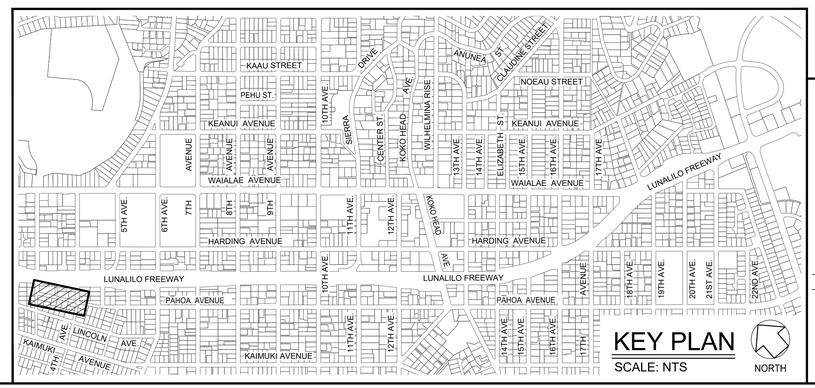
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\64 CURB RAMP TYPICAL DETAILS AND NOTES - 2.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 1
PĀHOA AVENUE

SCALE: 1"=20'



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
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REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

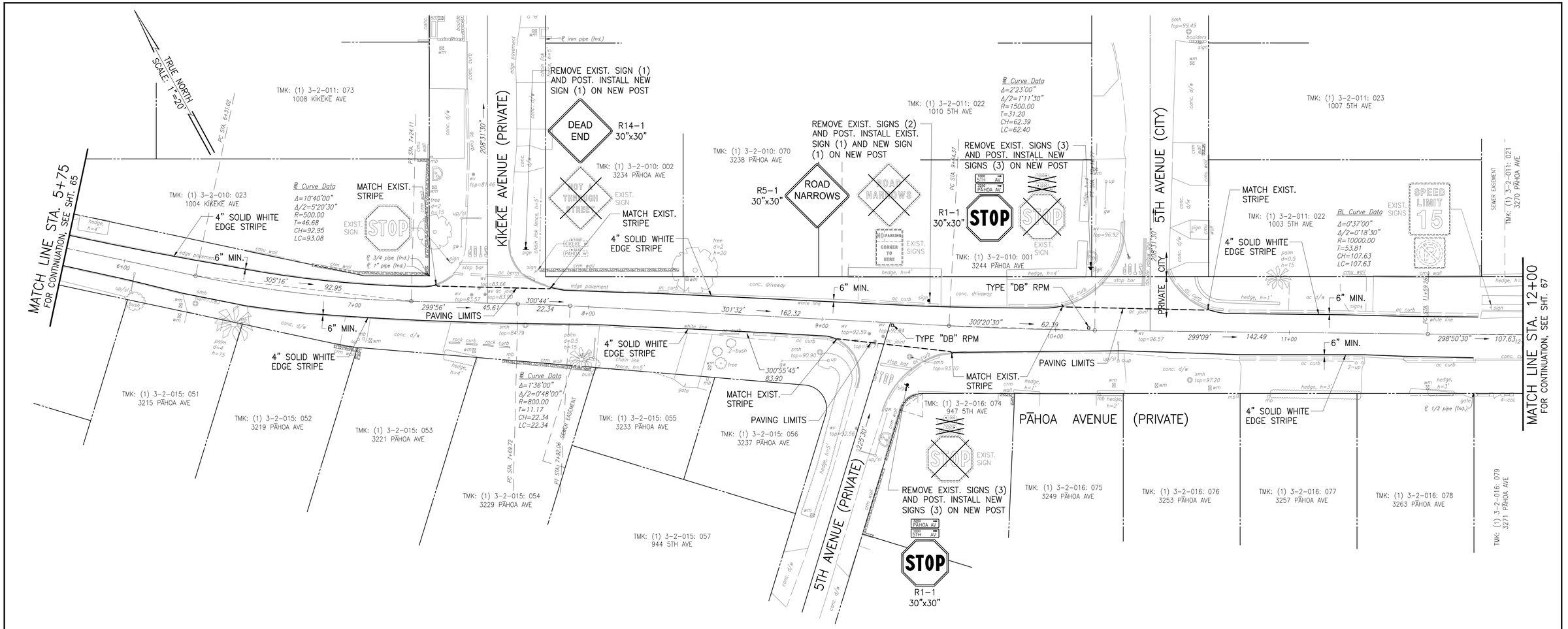
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 1
PĀHOA AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C064
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 65 OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

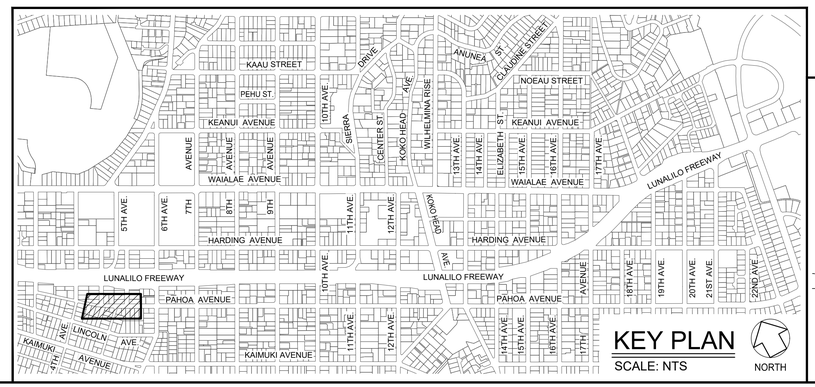
FILE	POCKET	FOLDER	NO.

Y:\2020\20-024 REHABILITATION OF STREETS\ROLLS - PHASE 26A - KAPAHULU, KAIMUKI & KAHALA\ENGINEERING\DWG\65 SIGNING AND STRIPING PLAN - 1 PAHOA AVENUE.DWG
JOB NO. 0-20-024
051325



SIGNING AND STRIPING PLAN – 2
PĀHOA AVENUE

SCALE: 1"=20'



REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP: 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS
HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

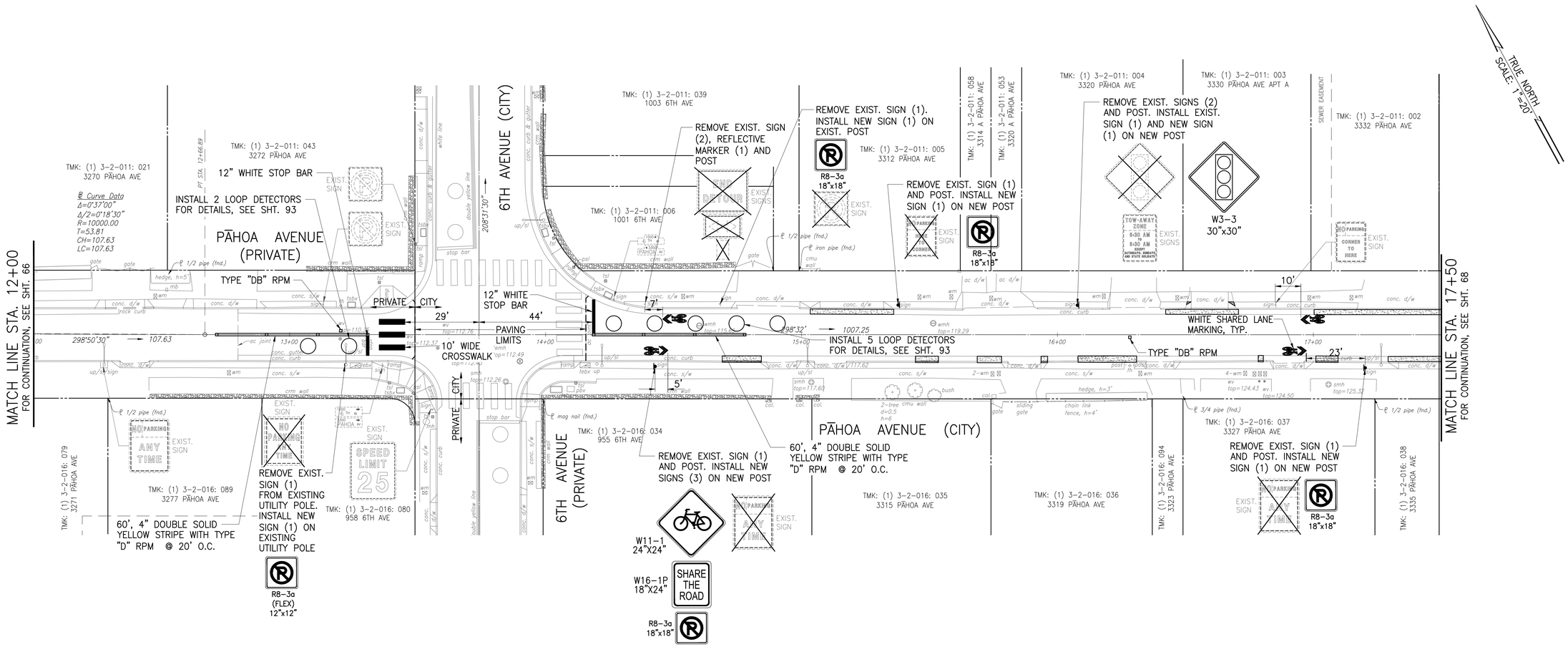
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 2
PĀHOA AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C065
DRAWN	MV		SHEET NO. 66
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

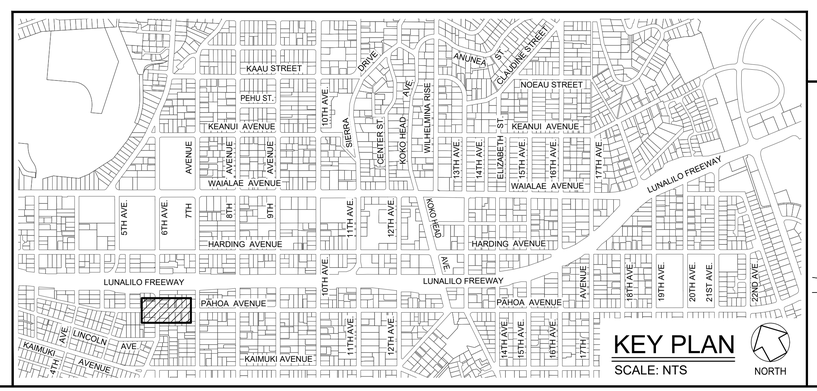
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
051325



SIGNING AND STRIPING PLAN – 3
PĀHOA AVENUE

SCALE: 1"=20'



REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 3
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC — DATE

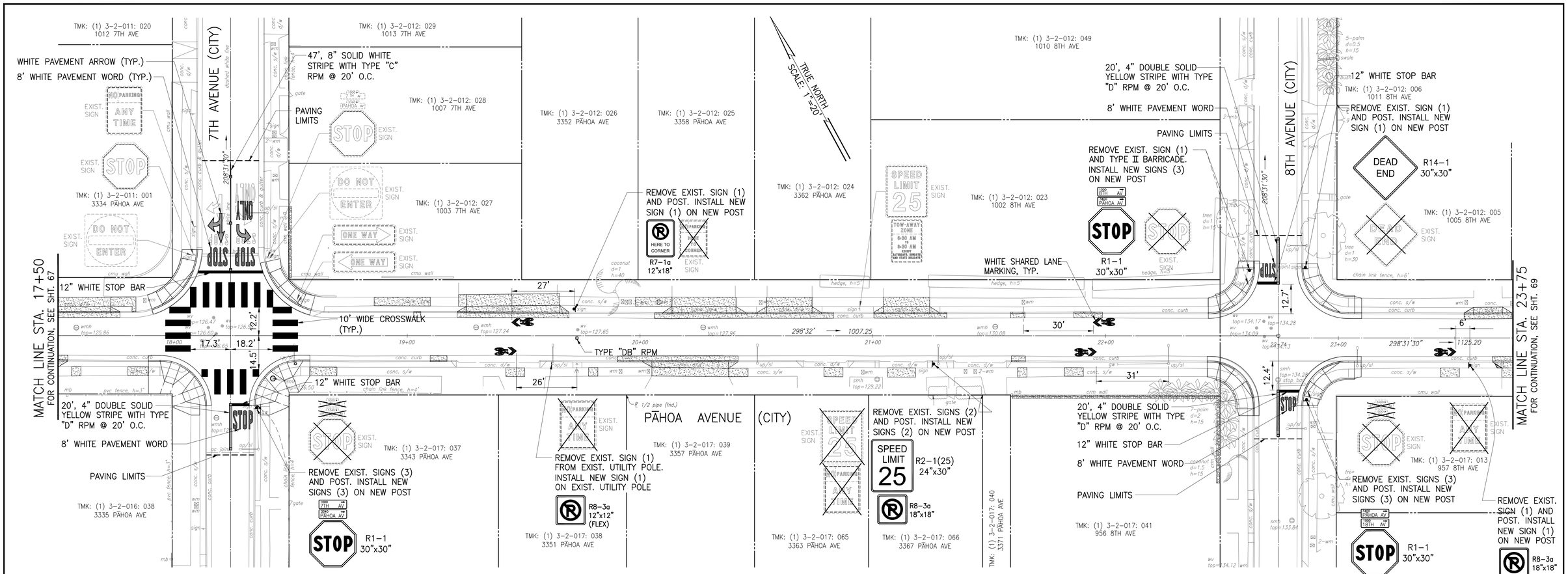
DRAWING NO. C066

SHEET NO. 67 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E)\ NIKKI\DWG\67 SIGNING AND STRIPING PLAN – 3 PAHOA AVENUE.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 4
PĀHOA AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 4
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

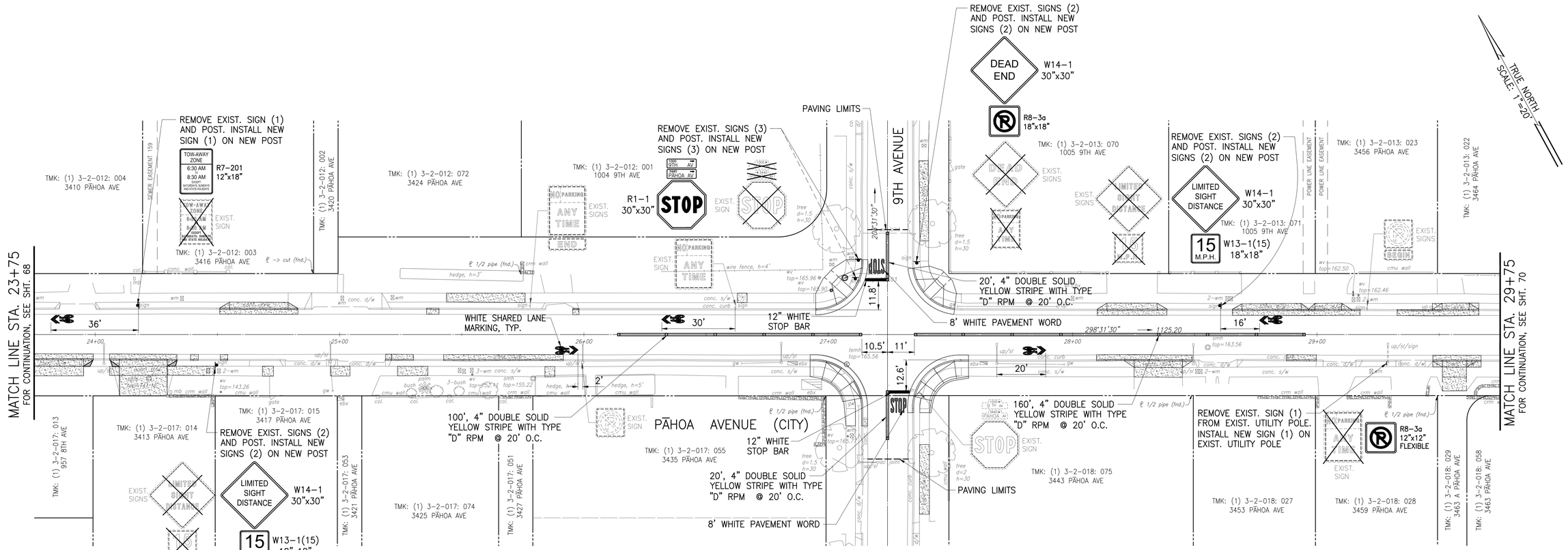
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SHEET NO. 68 OF 105 SHEETS

FILE	DRAW	FOLDER

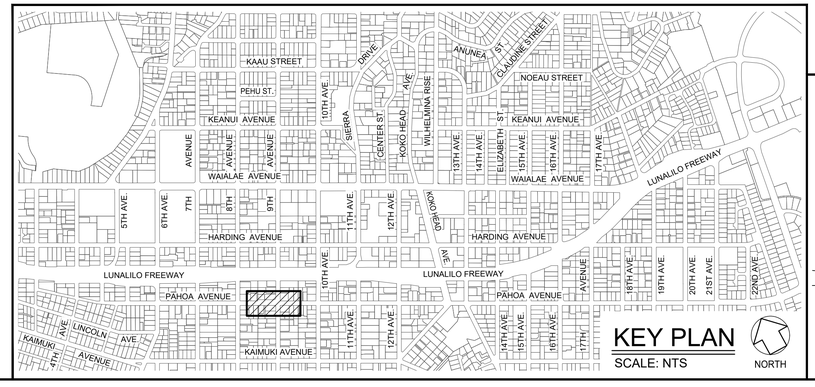
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\68 SIGNING AND STRIPING PLAN – 4 PAHOA AVENUE.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 5
PĀHOA AVENUE

SCALE: 1"=20'



REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 5
PĀHOA AVENUE

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS
HONOLULU, HAWAII

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

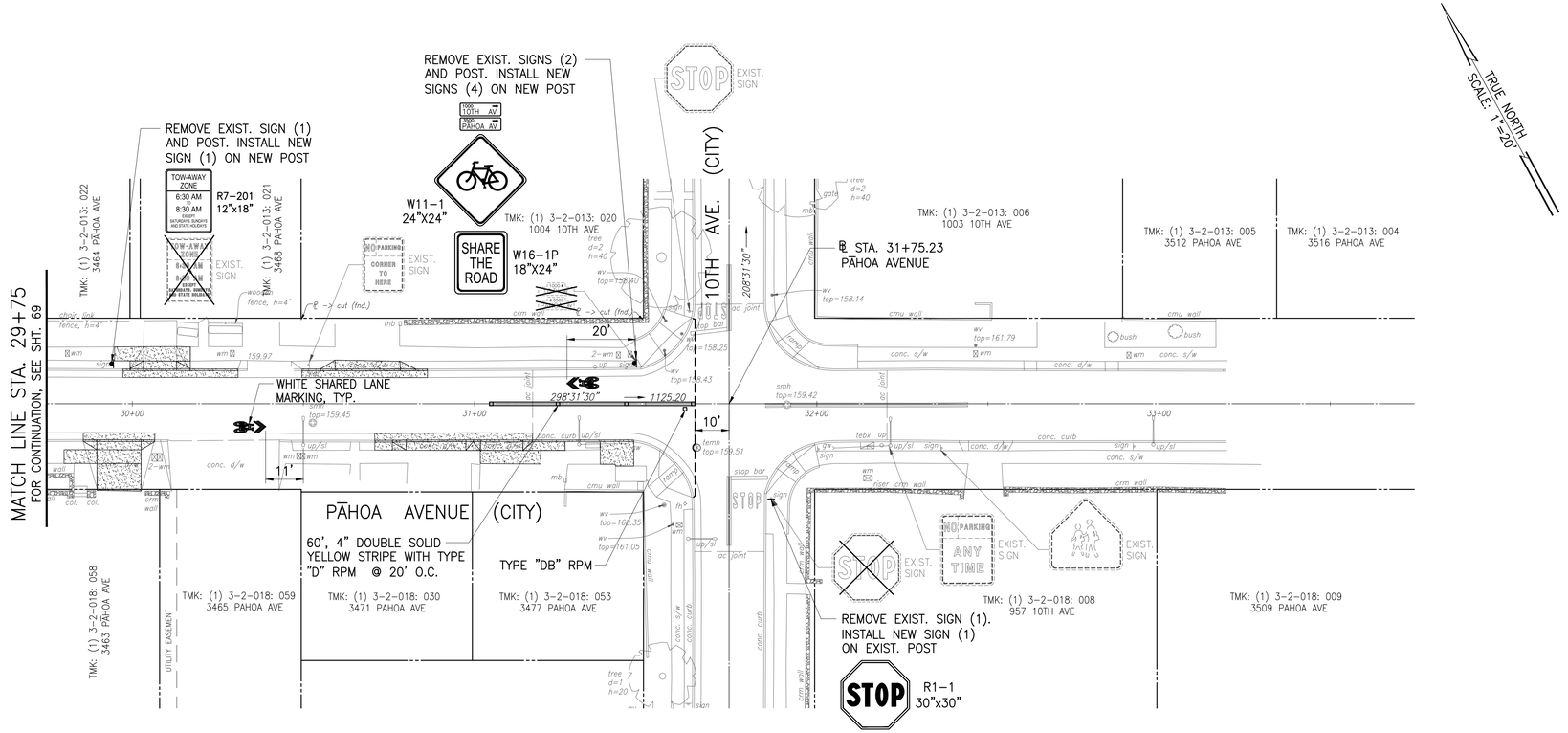
DRAWING NO. C068

SHEET NO. 69 OF 105 SHEETS

FILE DRAW FOLDER

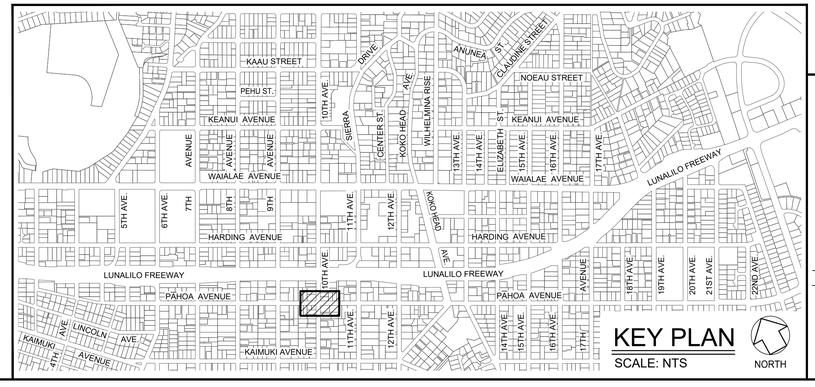
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\69 SIGNING AND STRIPING PLAN – 5 PAHOA AVENUE.DWG
JOB NO. O-20-024
040125



SIGNING AND STRIPING PLAN – 6 PĀHOA AVENUE

SCALE: 1"=20'



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 6
PĀHOA AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

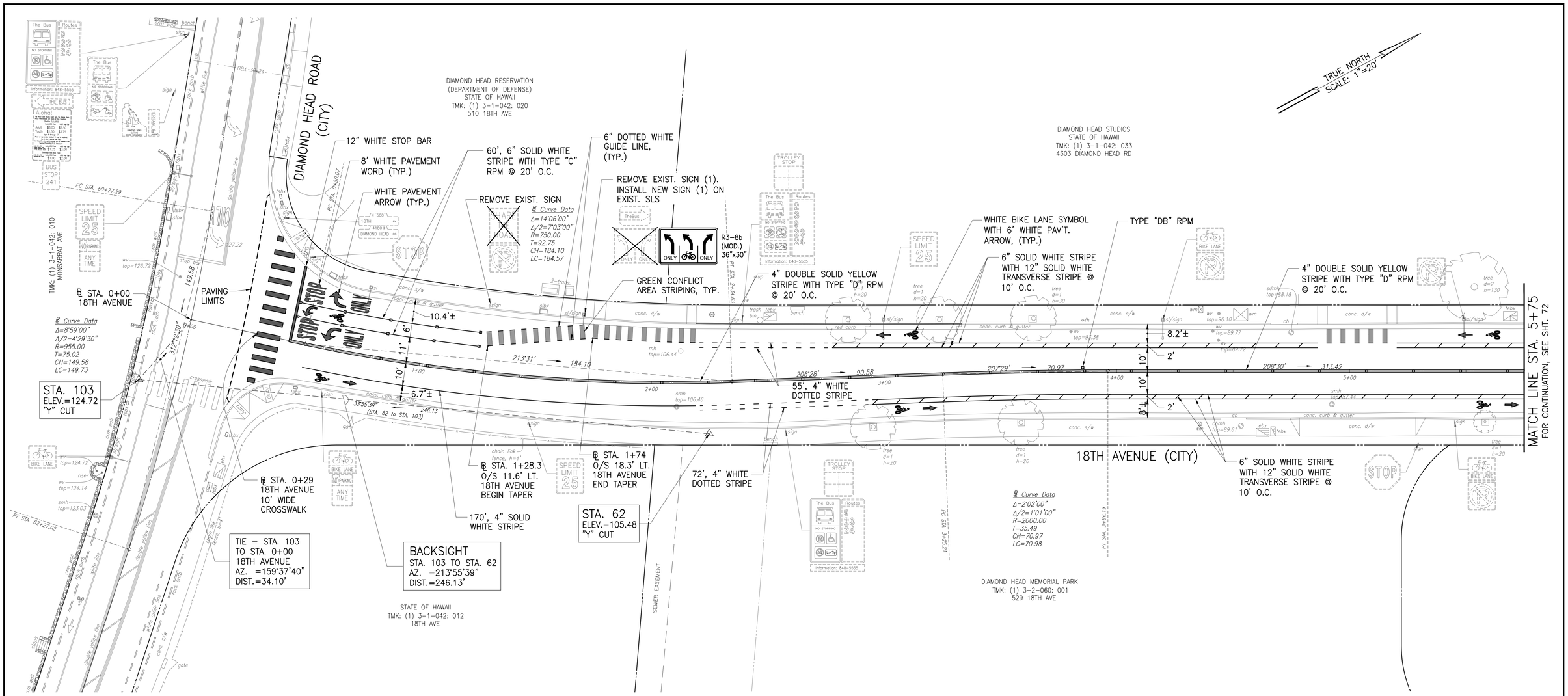
CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C069
SHEET NO. 70 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

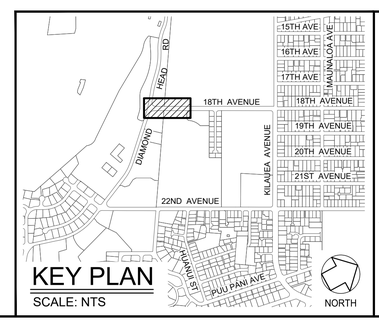
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 7 18TH AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

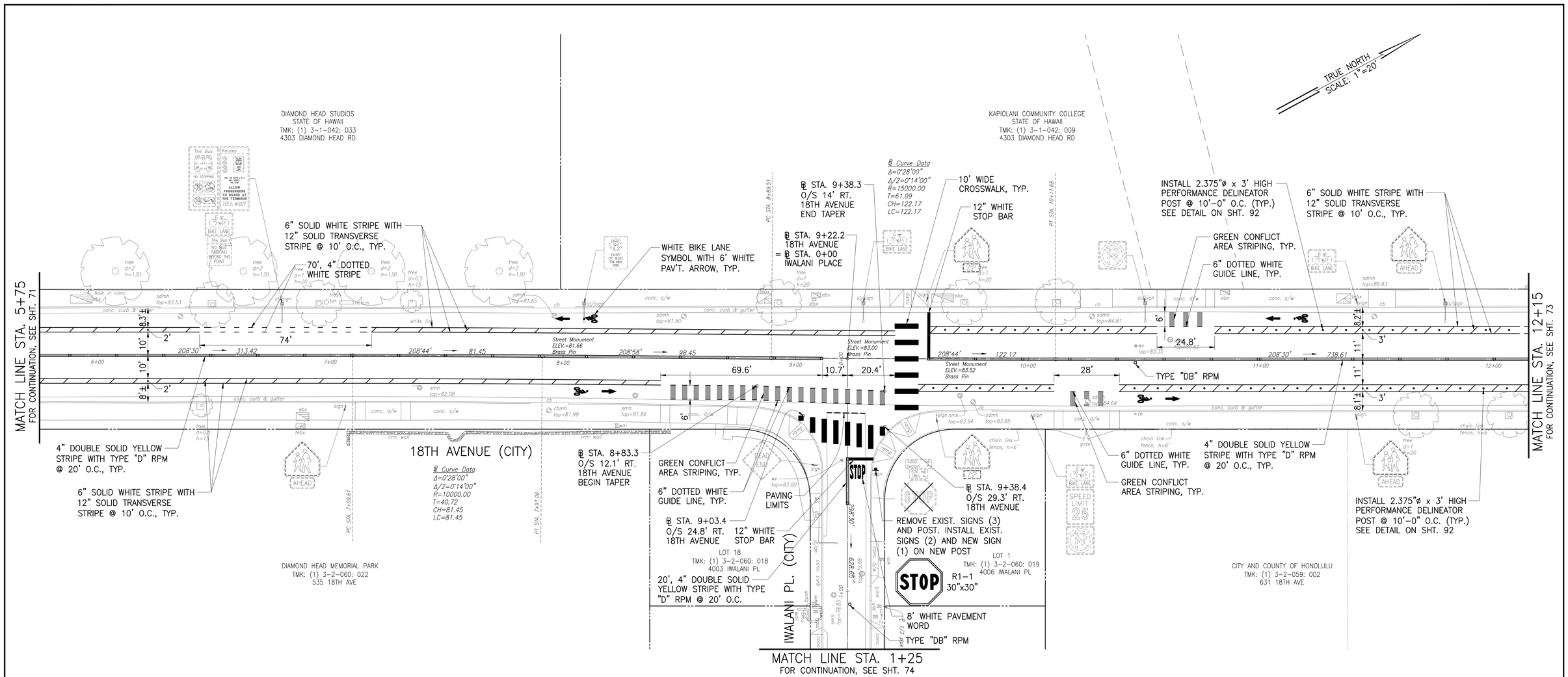
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 7 18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C070
DRAWN	MV		SHEET NO. 71
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

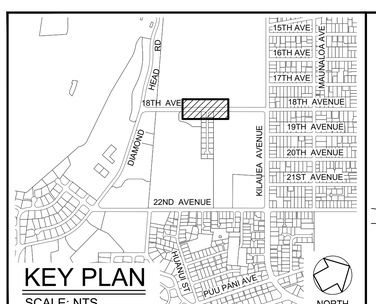
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\71 SIGNING AND STRIPING PLAN - 7 18TH AVENUE.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 8
18TH AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

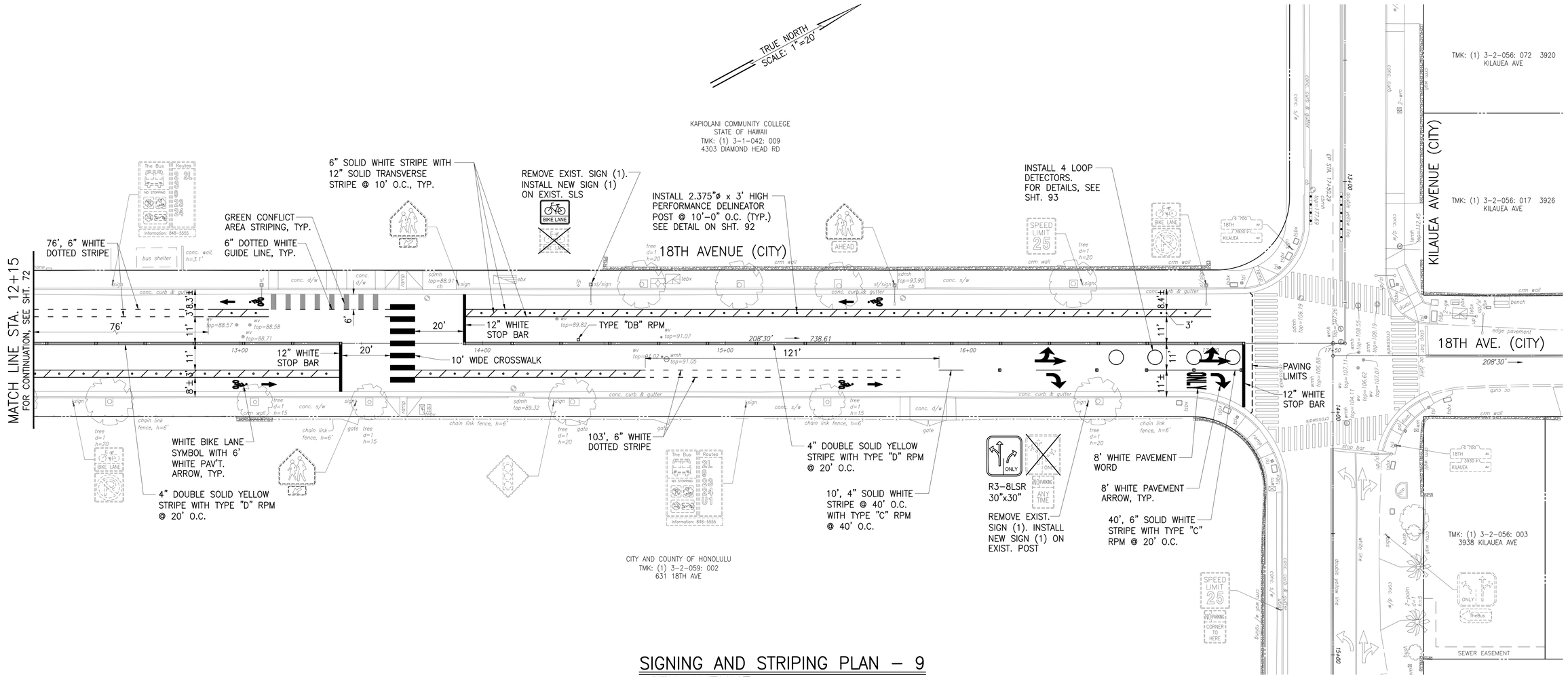
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 8
18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C071
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 72
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

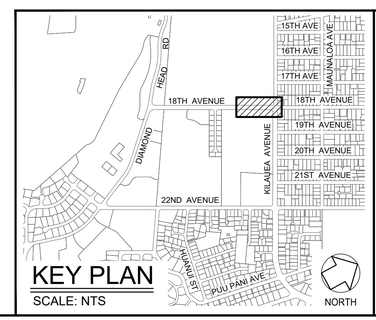
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 9 18TH AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN
SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
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HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

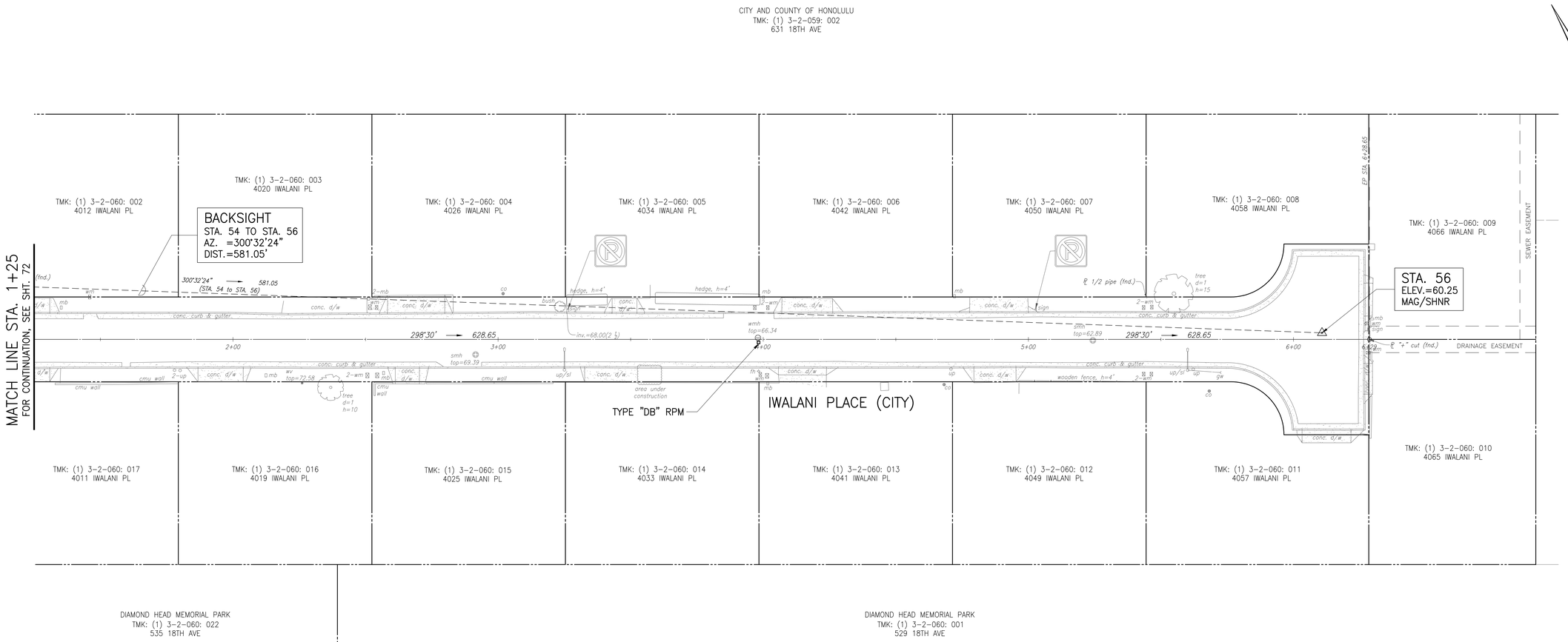
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 9 18TH AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C072
DRAWN	MV		SHEET NO. 73
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

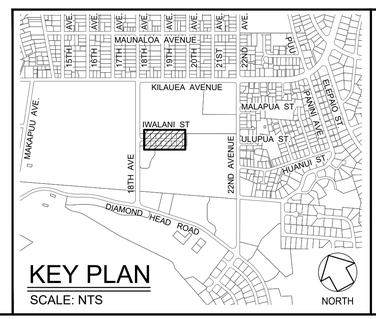
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E)\NIKK\DWG\73 SIGNING AND STRIPING PLAN - 9 18TH AVENUE.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 10 IWALANI PLACE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 10 IWALANI PLACE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

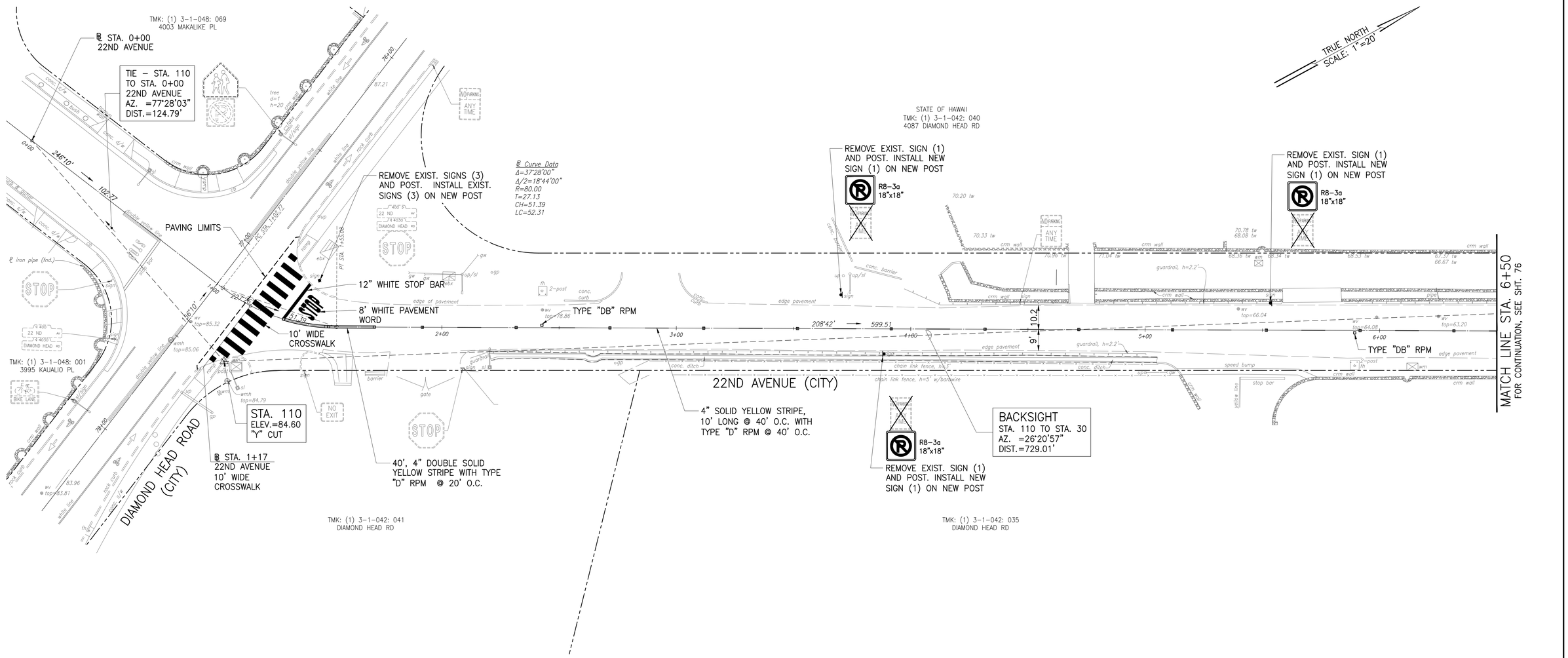
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SHEET NO. 74 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

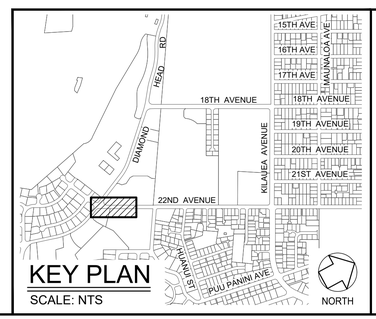
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 11 22ND AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



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LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

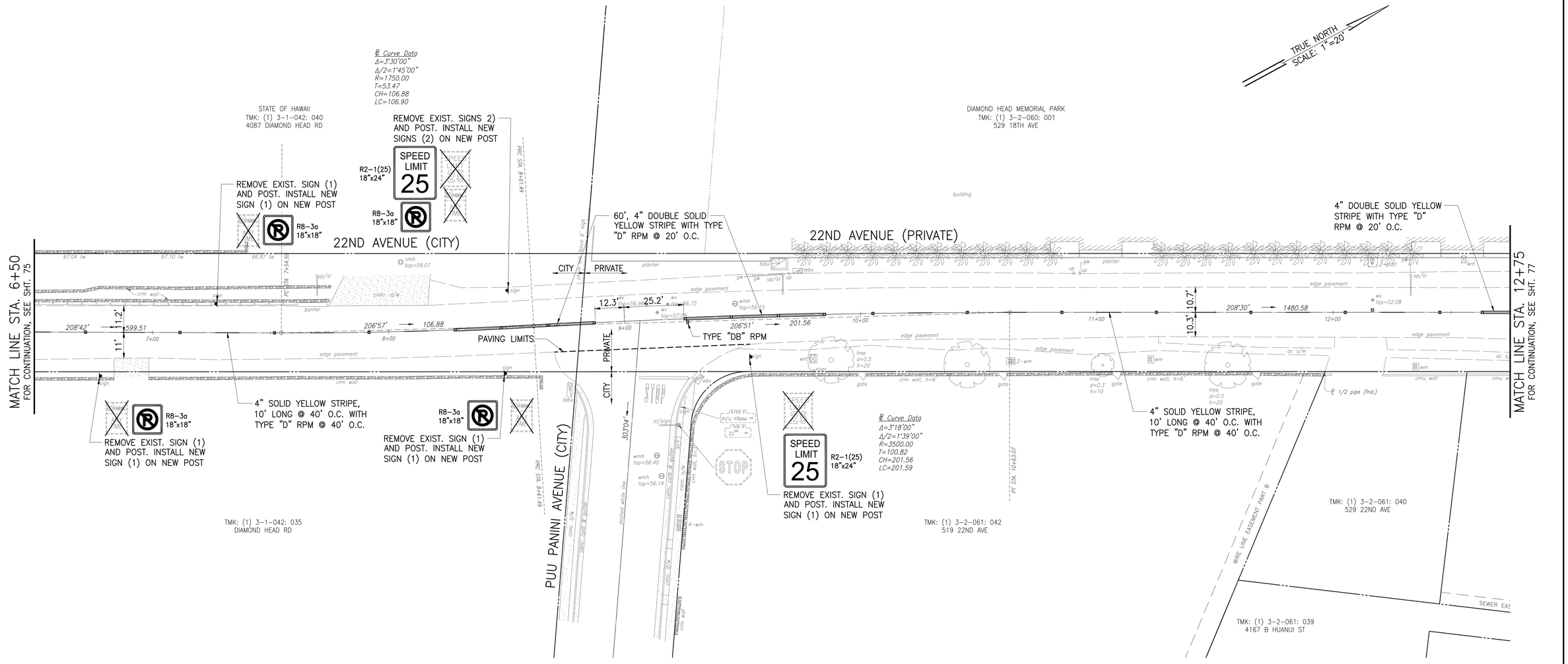
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 11 22ND AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C074
DRAWN	MV		SHEET NO. 75
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

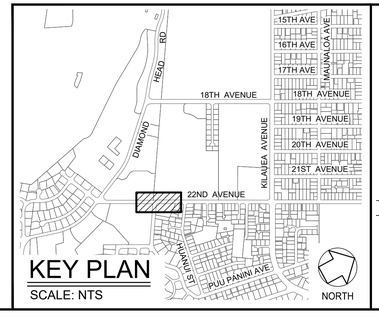
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 12 22ND AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 12 22ND AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

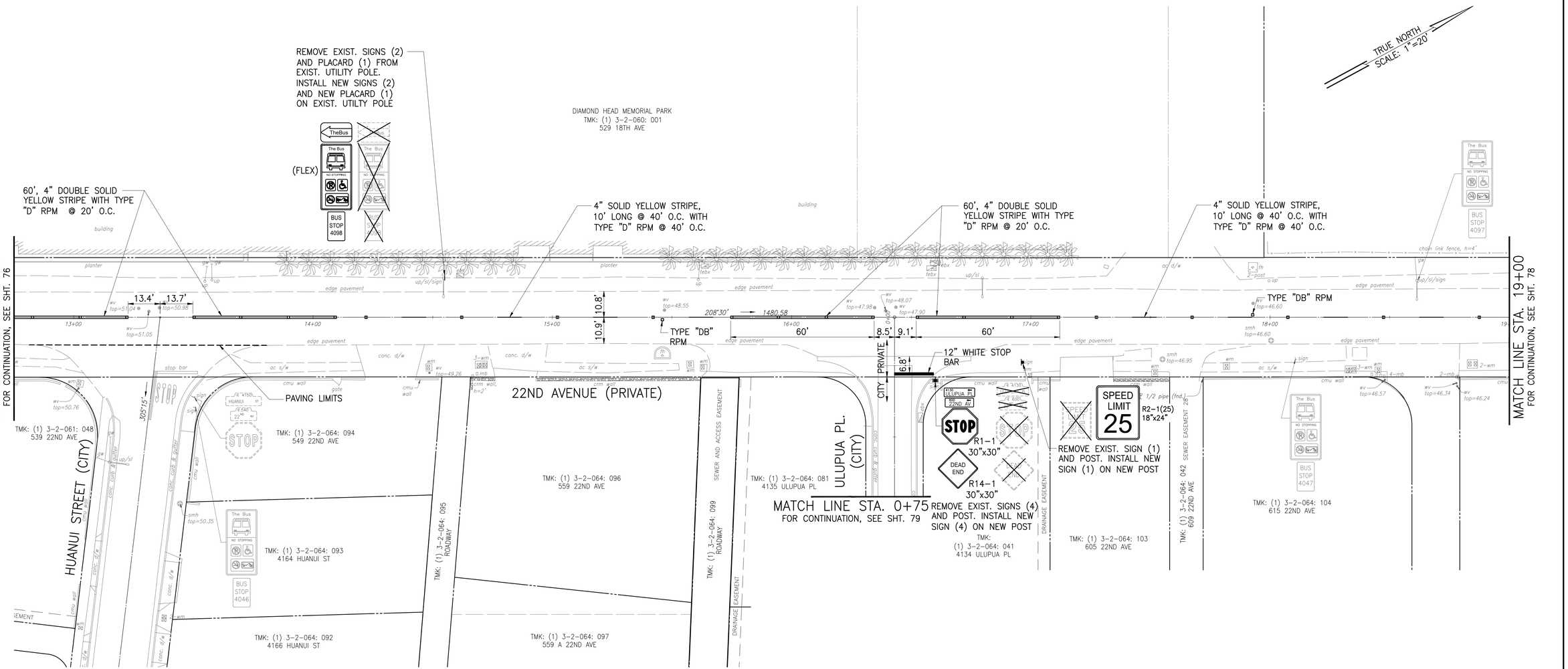
DRAWING NO. C075

SHEET NO. 76 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

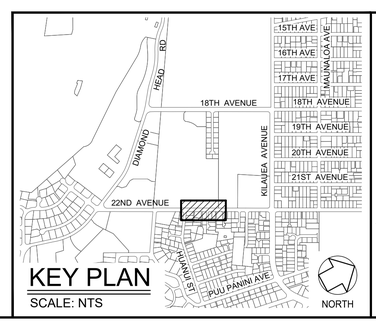
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 13 22ND AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



TERRANCE S. ARASHIRO
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No. 6998-C
HAWAII, U.S.A.
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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

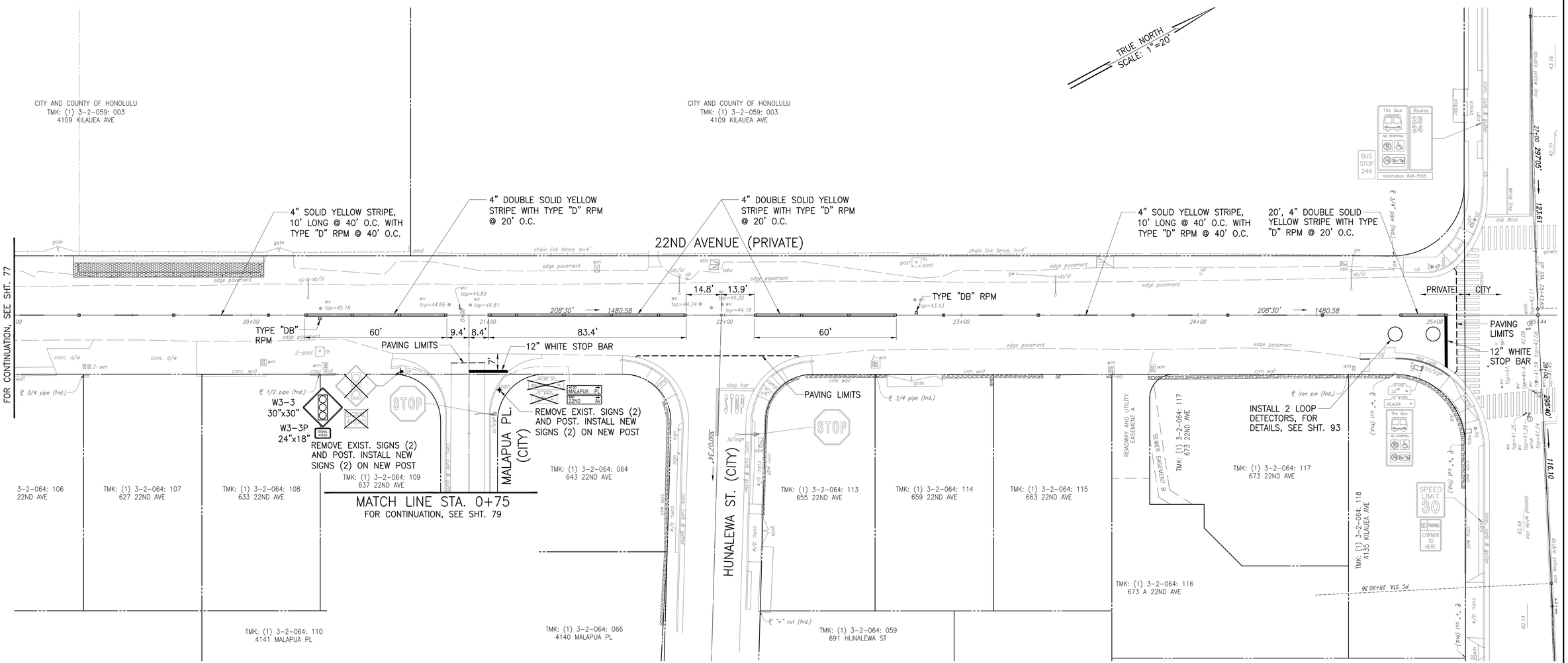
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 13 22ND AVENUE

DESIGN	KH	APPROVED:	DRAWING NO. C076
DRAWN	MV		SHEET NO. 77
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

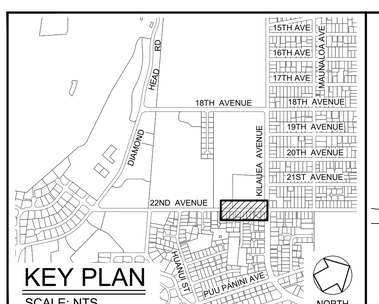
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 14 22ND AVENUE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



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LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 14 22ND AVENUE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC — DATE

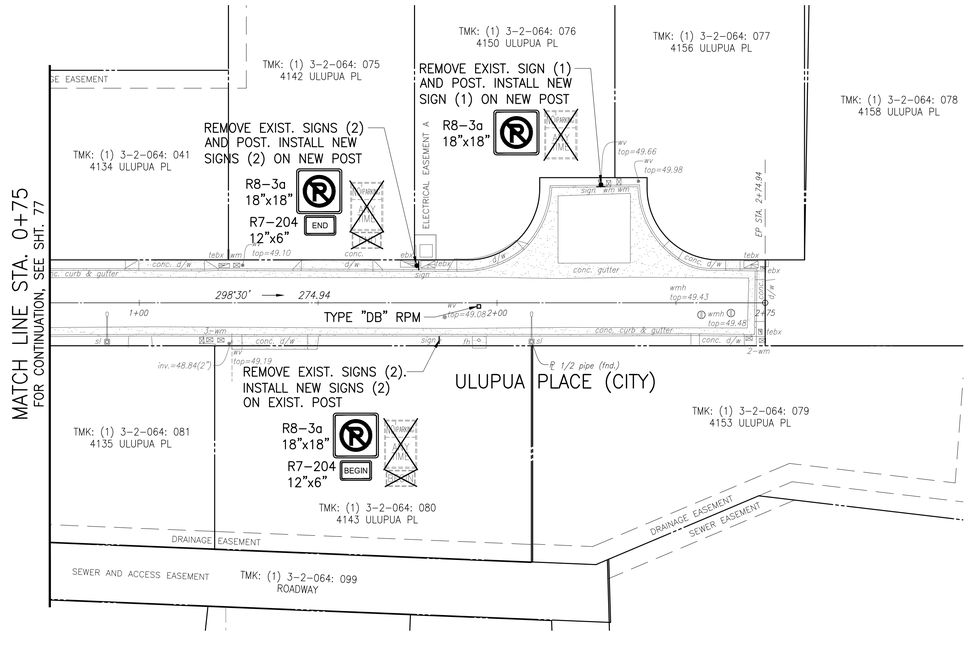
DRAWING NO. C077

SHEET NO. 78 OF 105 SHEETS

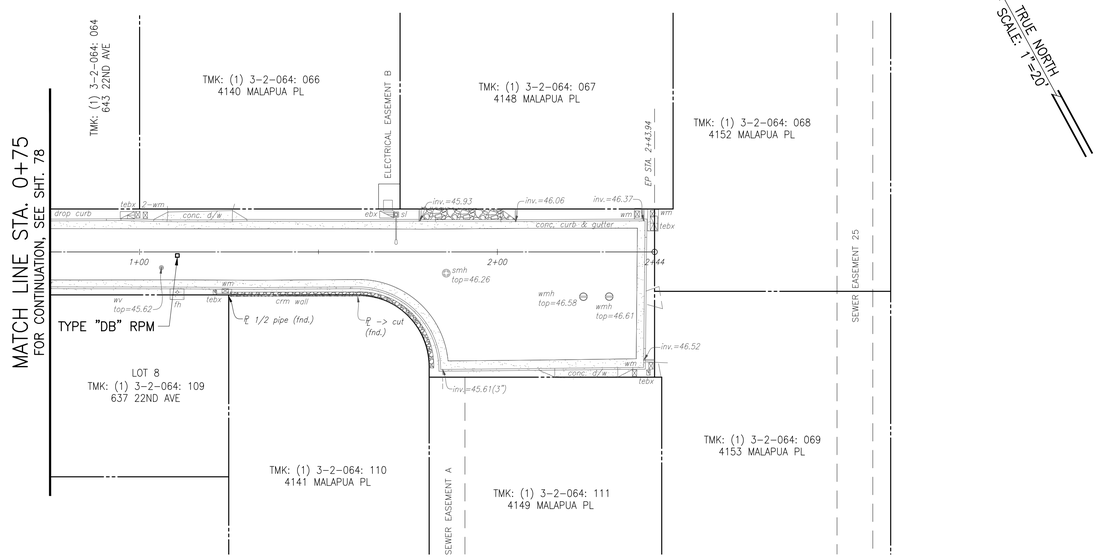
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FILE	POCKET	FOLDER	NO.

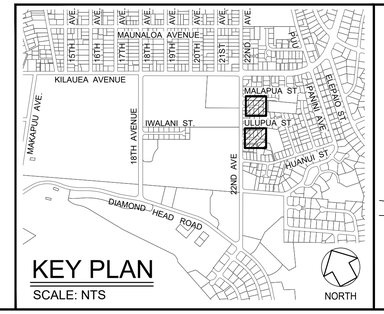
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 15
ULUPUA PLACE
SCALE: 1"=20'



SIGNING AND STRIPING PLAN – 16
MALAPUA PLACE
SCALE: 1"=20'



TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

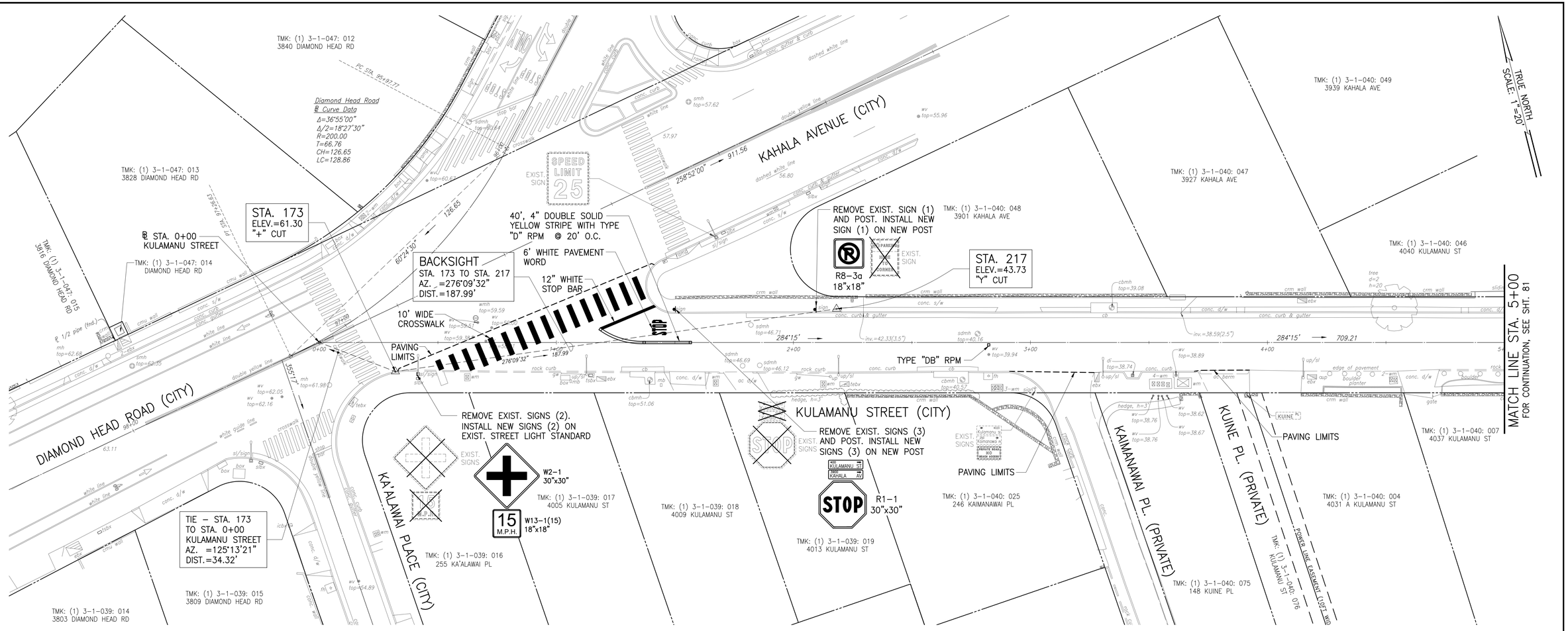
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 15 AND 16
ULUPUA PLACE AND MALAPUA PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C078
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 79
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\79 SIGNING AND STRIPING PLAN - 15 & 16 ULUPUA PL & MALAPUA PL.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 17 KULAMANU STREET

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS, SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

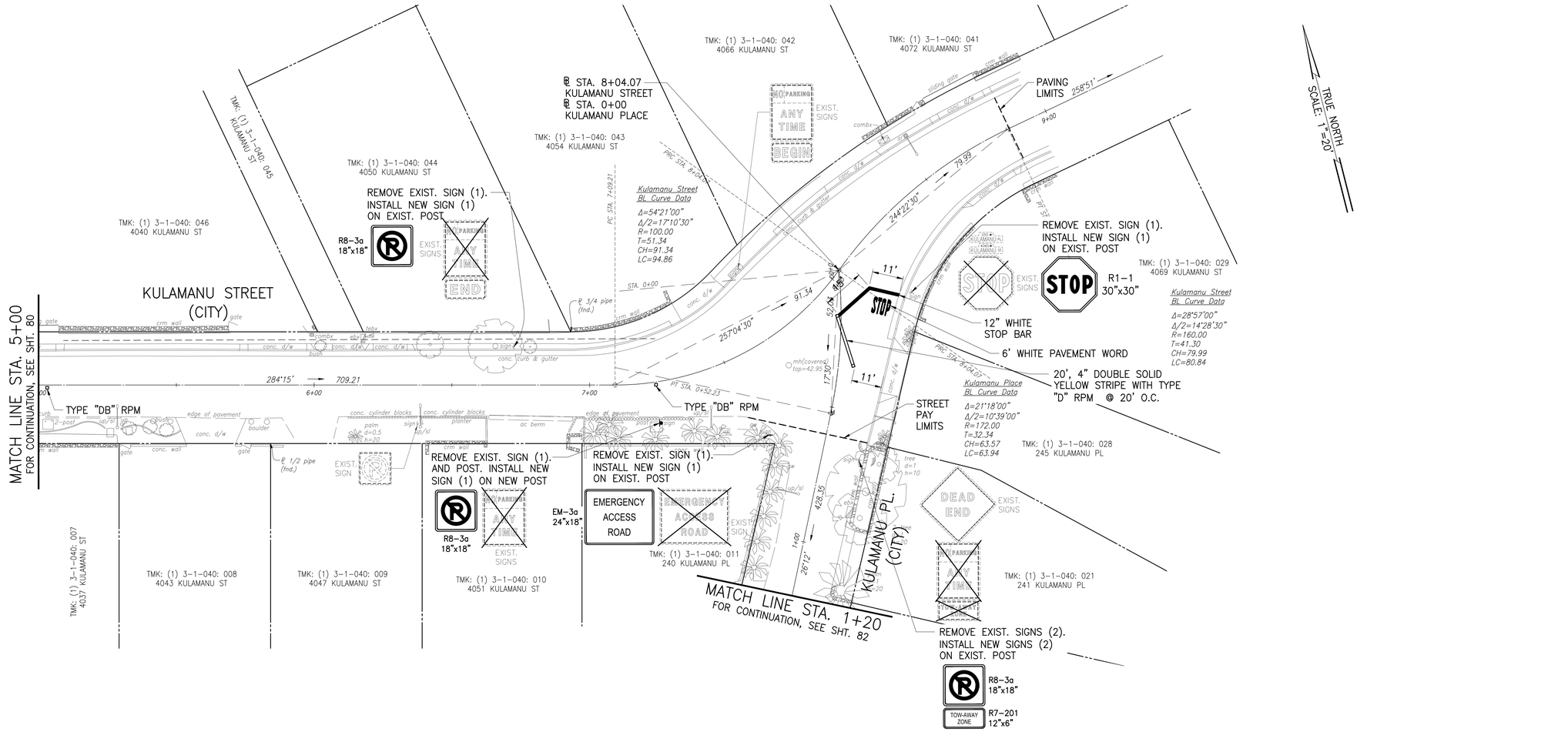
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN -17
KULAMANU STREET

DESIGN	KH	APPROVED:	DRAWING NO. C079
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 80
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

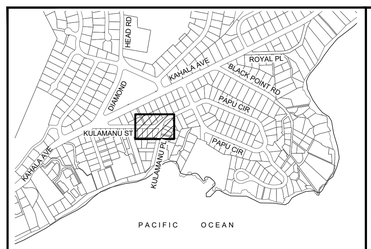
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JOB NO. O-20-024
040125



SIGNING AND STRIPING PLAN – 18 KULAMANU STREET

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 18 KULAMANU STREET

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C080

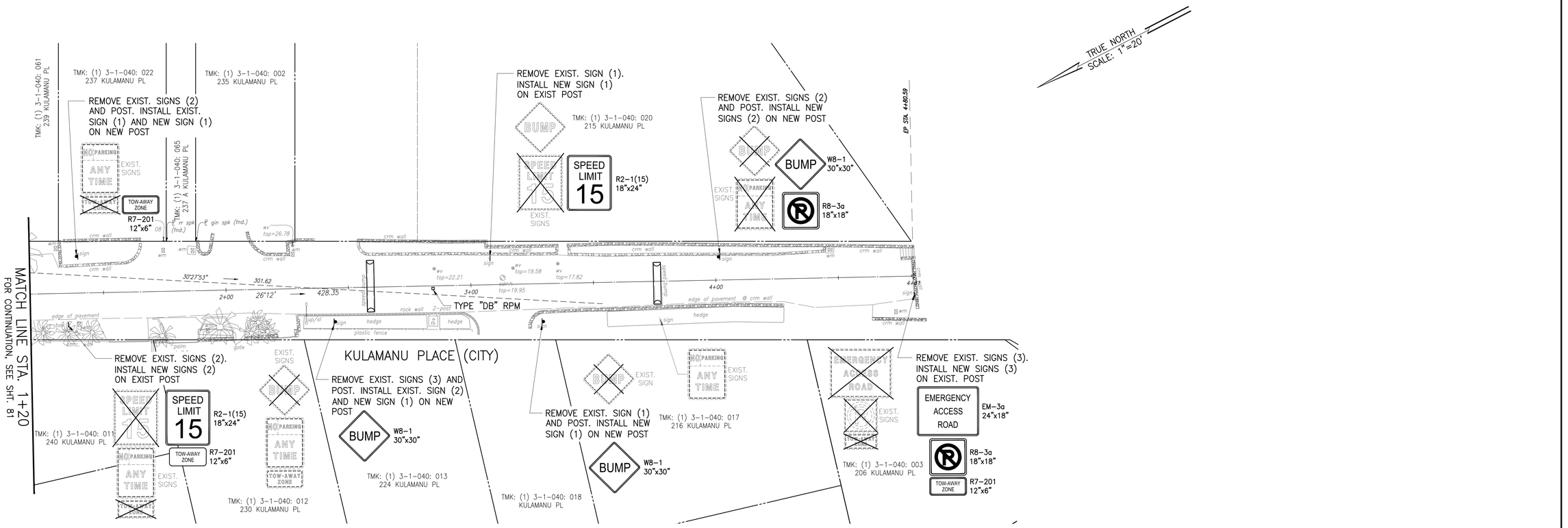
SHEET NO. 81 OF 105 SHEETS

JOB NO. XX-XX

FILE	DRAW	FOLDER

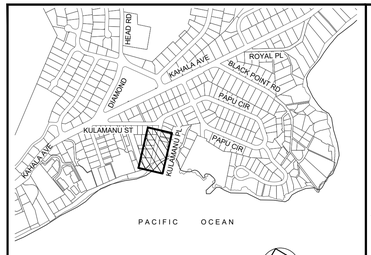
FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 19 KULAMANU PLACE

SCALE: 1"=20'



KEY PLAN

SCALE: NTS NORTH

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC. ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I


SIGNING AND STRIPING PLAN - 19 KULAMANU PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C081
DRAWN	MV		SHEET NO. 82
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\82 SIGNING AND STRIPING PLAN - 19 KULAMANU PLACE.DWG
JOB NO. 0-20-024
040125

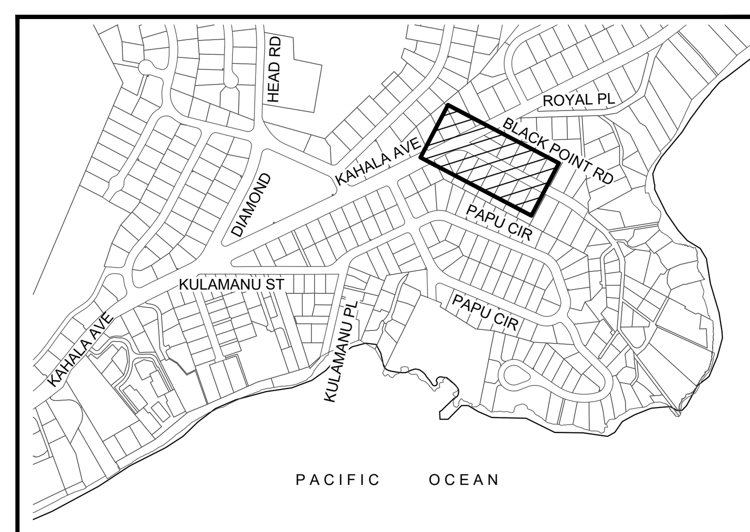
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\83 SIGNING AND STRIPING PLAN - 20 BLACK POINT ROAD.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 20
BLACK POINT ROAD

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN
SCALE: NTS
NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS, SURVEYORS • HONOLULU, HAWAII

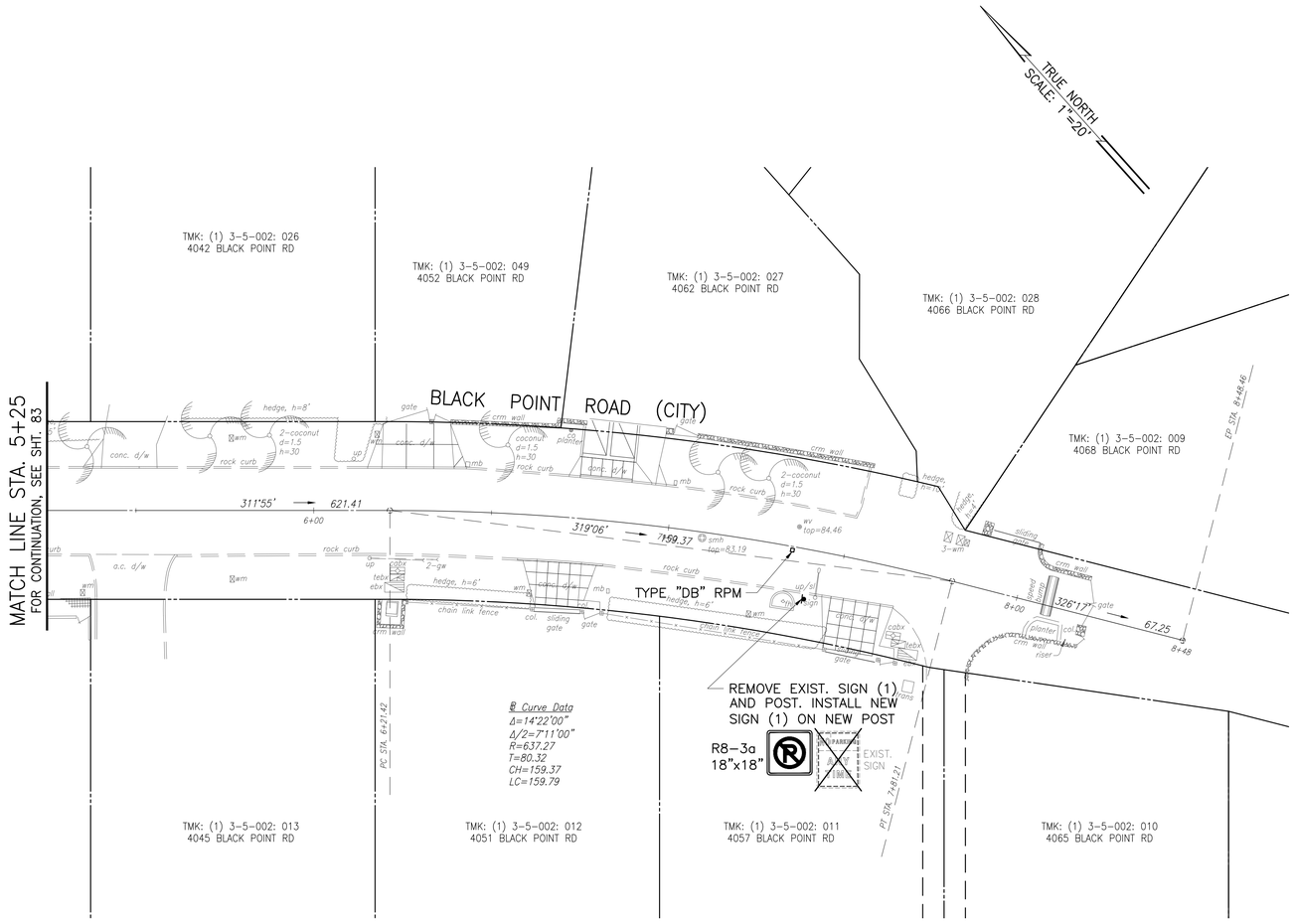
DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 20
BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C082
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 83
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

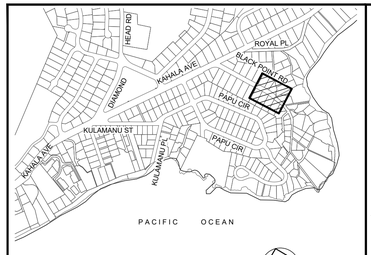
FILE	POCKET	FOLDER	NO.



SIGNING AND STRIPING PLAN – 21 BLACK POINT ROAD

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
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CIVIL DIVISION

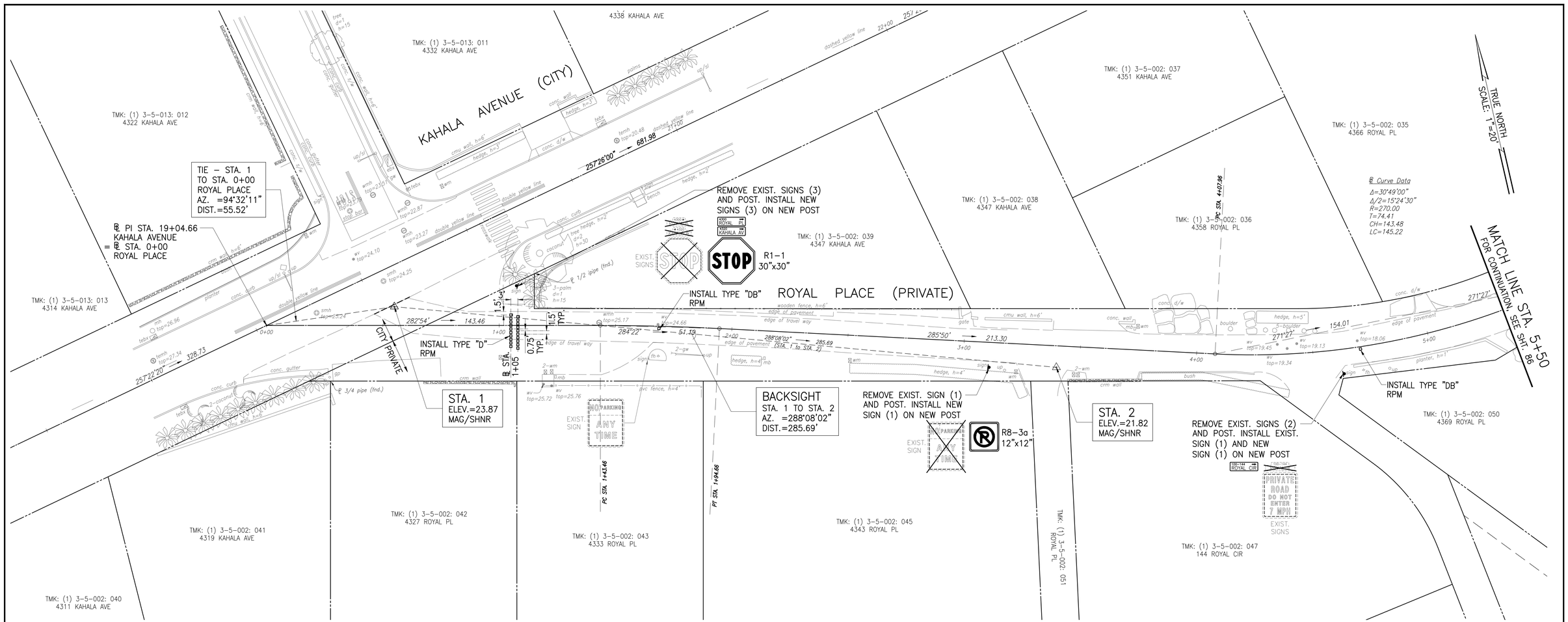
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 21 BLACK POINT ROAD

DESIGN	KH	APPROVED:	DRAWING NO. C083
DRAWN	MV		SHEET NO. 84
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

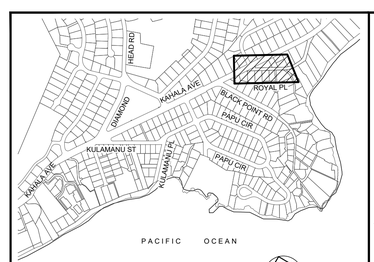
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JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 22 ROYAL PLACE

SCALE: 1"=20'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED



KEY PLAN

SCALE: NTS NORTH

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

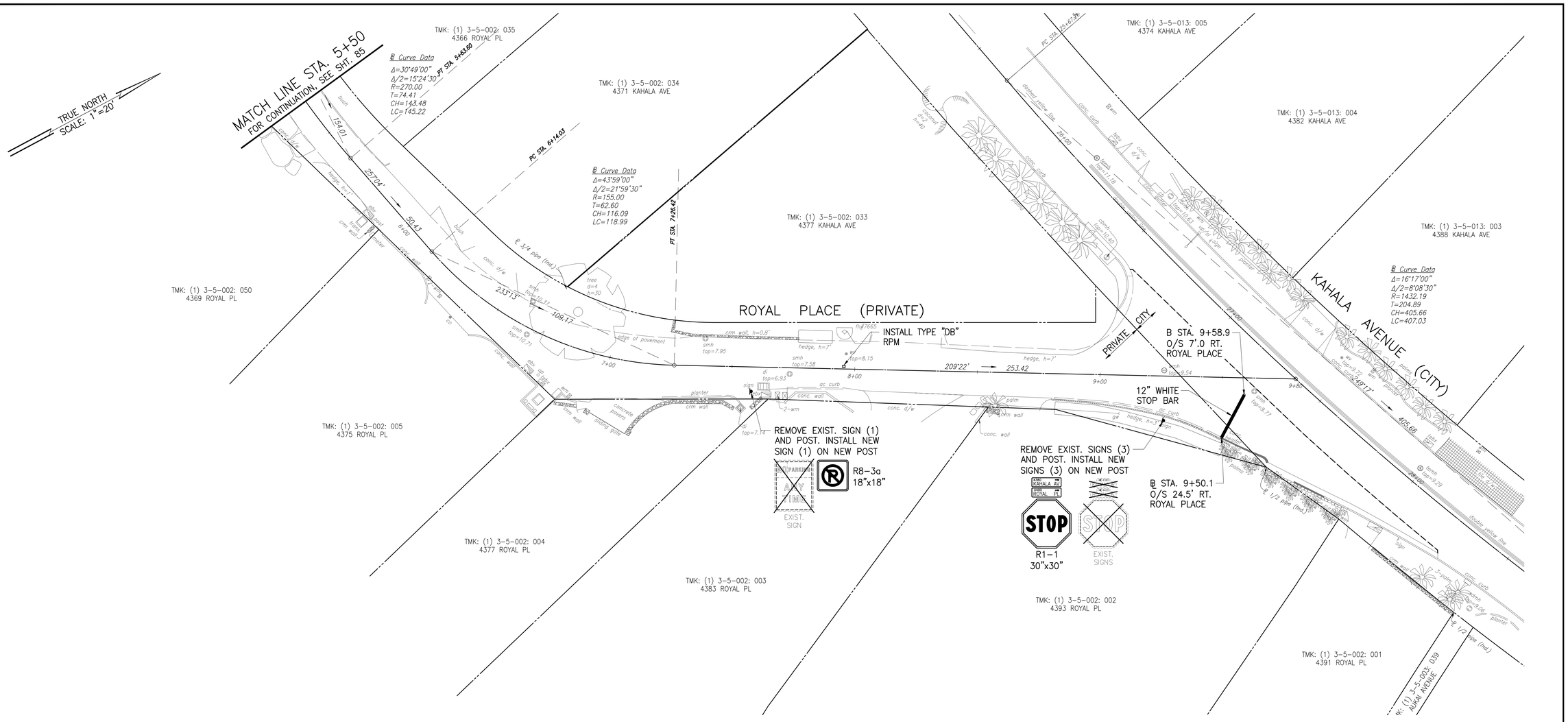
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 22 ROYAL PLACE

DESIGN	KH	APPROVED:	DRAWING NO. C084
DRAWN	MV		SHEET NO. 85
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\85 SIGNING AND STRIPING PLAN – 22 ROYAL PLACE.DWG
JOB NO. 0-20-024
040125



SIGNING AND STRIPING PLAN – 23 ROYAL PLACE

SCALE: 1"=20'



KEY PLAN

SCALE: NTS

NORTH

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

SIGNING AND STRIPING PLAN - 23 ROYAL PLACE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX-XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

DRAWING NO. C085

SHEET NO. 86 OF 105 SHEETS

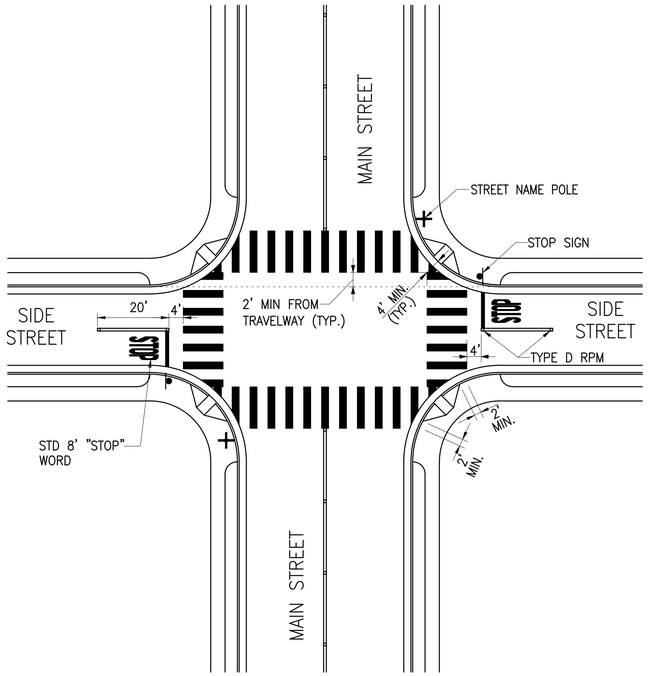
FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

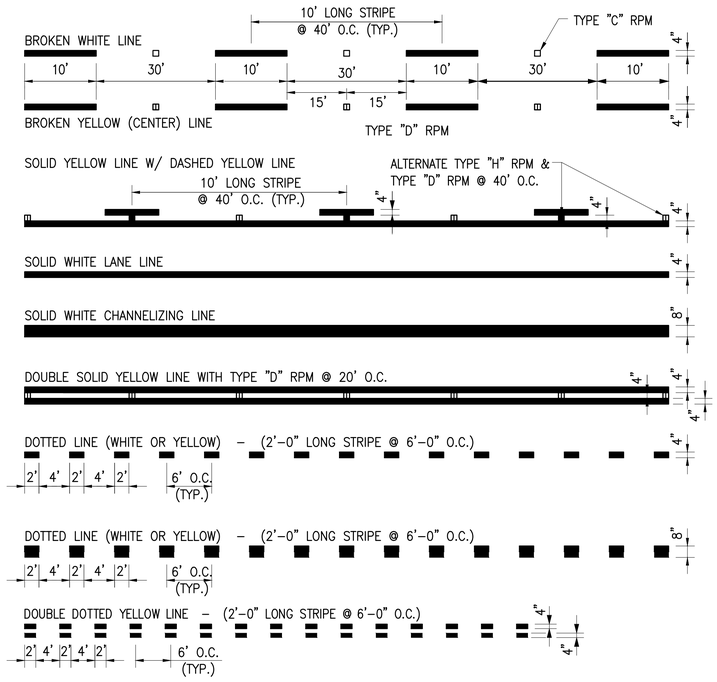
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JOB NO. 0-20-024
040125

SIGNS AND MARKING NOTES:

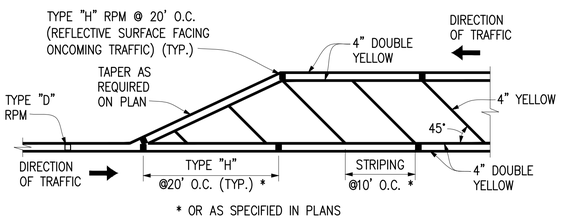
1. ALL TRAFFIC SIGN AND PAVEMENT MARKING INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," 2009 EDITION, AS AMENDED, THE LATEST SPECIFICATIONS FROM THE TRAFFIC REVIEW BRANCH, DEPARTMENT OF PLANNING AND PERMITTING, AND AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL NOTIFY AND COORDINATE WORK WITH THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING, ONE (1) WEEK IN ADVANCE OF COMMENCING WORK AT 768-8084.
3. CONTRACTOR SHALL SUBMIT MATERIAL BROCHURES FOR ALL SIGNS AND PAINT MATERIALS TO THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING.
4. THE SIGNING AND/OR STRIPING CONTRACTOR SHALL KEEP ONE (1) SET OF APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION WORK.
5. CONTRACTOR SHALL PAINT TEMPORARY GUIDELINES AND OUTLINE OF ARROWS, LEGENDS, AND CROSSWALKS WITH A TWO INCH (2") WIDE BRUSHED LINE ON THE DAY THE ROADWAY IS OPENED TO TRAFFIC. THESE MARKINGS MUST BE APPROVED BY THE INSPECTOR FROM THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING.
6. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING AT 768-8084, THREE (3) DAYS IN ADVANCE OF FINAL INSPECTION.
7. CONTRACTOR SHALL MEET WITH THE INSPECTOR FROM THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING DURING THE FINAL INSPECTION.
8. WITHIN TEN (10) DAYS FOLLOWING NOTIFICATION OF AWARD OF CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENT OF PLANNING AND PERMITTING (PHONE: 768-8084) FOR APPROVAL, A LIST OF ANY SIGNING AND PAVEMENT MARKING MATERIAL. THE LIST SHALL BE COMPLETE AS TO THE NAME OF MANUFACTURER, CATALOG NUMBER, AND SHALL BE SUPPLEMENTED WITH MATERIAL BROCHURES.
9. UPON FINAL INSPECTION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A LETTER OF CERTIFICATION FOR ALL TRAFFIC SIGNING AND PAVEMENT MARKING MATERIALS INSTALLED.
10. SIGNS SHALL BE ATTACHED TO BRACKETS WITH $\frac{5}{16}$" ZINC PLATED STEEL BOLTS, NUTS AND WASHERS. SIGNS 48" WIDE OR LARGER THAN 10 SQ. FT. IN AREA SHALL BE MOUNTED ON TWO 2" GALV. PIPE POST. THE SIGN SHALL BE INSTALLED WITH AT LEAST (1) ONE FOOT CLEARANCE FROM THE SIGN EDGE TO THE CURB FACE.
11. ALL TRAFFIC SIGNS SHALL BE RETRO REFLECTIVE.
12. RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DEPARTMENT OF PLANNING AND PERMITTING STANDARDS.
13. LOCATION OF "STOP" SIGN:
    A. INSTALL "STOP" SIGN AT CURB TANGENT POINT.
    B. INSTALL "STOP" SIGN ON METAL STREET LIGHT STANDARD IF A STANDARD IS LOCATED WITH IN 10 FEET OF CURB RETURN.
    C. INSTALL "STOP" SIGN IN FRONT OF UTILITY POLE IF A POLE IS LOCATED WITHIN 10 FEET OF CURB RETURN.
14. PAVEMENT WORD AND SYMBOL MARKINGS SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF PLANNING AND PERMITTING STANDARDS.
15. THE CONTRACTOR SHALL USE THERMOPLASTIC MATERIAL, APPROVED BY THE CIVIL ENGINEREING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING, FOR ALL CROSSWALKS, STOP BARS, PAVEMENT ARROWS, CENTER LINES, LANE LINES, ARC LINES, CHANNELIZED TRAFFIC ISLANDS, AND LEGENDS.



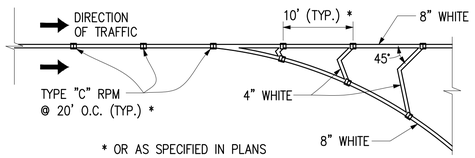
TYPICAL INTERSECTION SIGNING AND PAVEMENT MARKINGS WITH CROSSWALKS
NOT TO SCALE



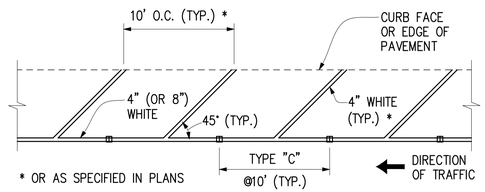
TYPICAL PAVEMENT MARKINGS – TYPES OF LONGITUDINAL LINES
NOT TO SCALE



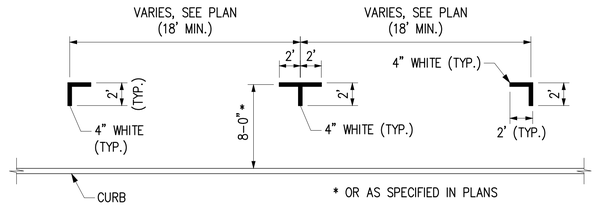
TRANSVERSE MEDIAN STRIPING DETAIL
NOT TO SCALE



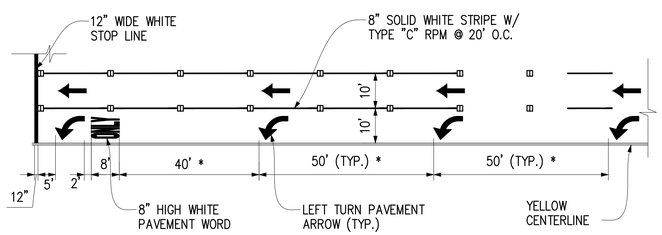
CHANNELIZING ISLAND STRIPING DETAIL
NOT TO SCALE



TRANSVERSE SHOULDER STRIPING DETAIL
NOT TO SCALE

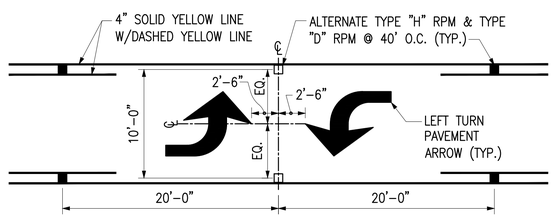


PARKING STALL PAVEMENT MARKINGS
NOT TO SCALE



* ALL DIMENSIONS SHALL BE TYPICAL UNLESS OTHERWISE SPECIFIED ON PLAN.

TYPICAL TURN LANE STRIPING
NOT TO SCALE



TWO-WAY LEFT TURN PAVEMENT ARROWS
NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.
EXP. 4/30/26

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CITY & COUNTY OF HONOLULU
CIVIL DIVISION

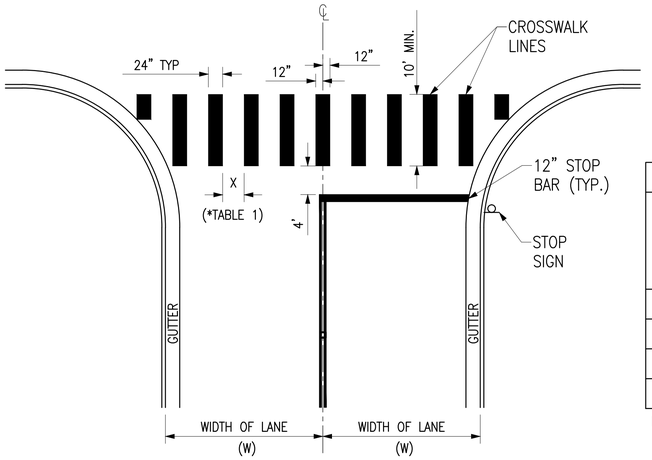
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING NOTES AND DETAILS - 1

DESIGN	KH	APPROVED:	DRAWING NO. C086
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 87
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

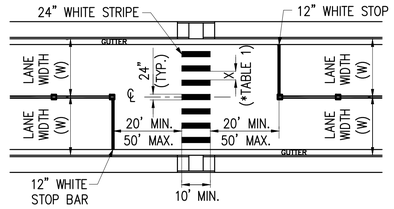
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JOB NO. 0-20-024
040125



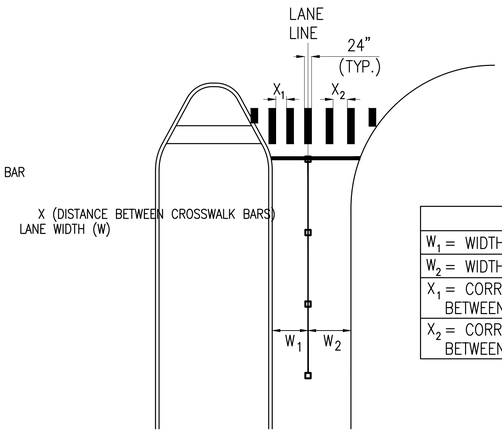
CONTROLLED INTERSECTION CROSSWALK DETAIL

*TABLE 1	
LANE WIDTH (W)	X (DISTANCE BETWEEN CROSSWALK BARS)
<12'	3'
12'–14'	4'
15'–17'	5'
>17'	3'

MAX X = 5'

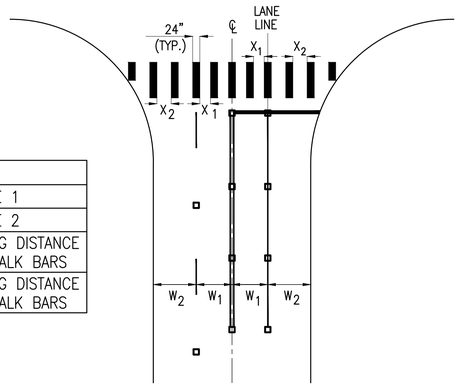


MID–BLOCK CROSSWALK DETAIL



TYPICAL MEDIAN MULTILANE

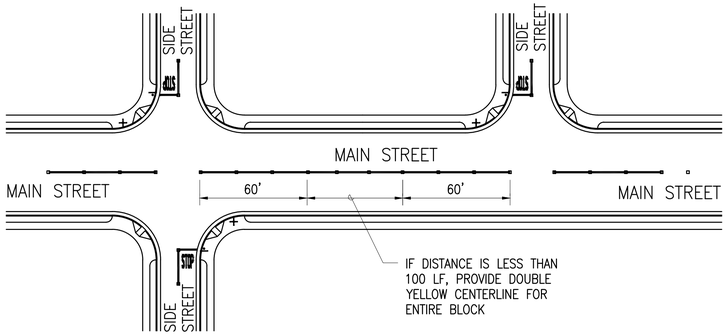
*TABLE 2
W_1 = WIDTH OF LANE 1
W_2 = WIDTH OF LANE 2
X_1 = CORRESPONDING DISTANCE BETWEEN CROSSWALK BARS
X_2 = CORRESPONDING DISTANCE BETWEEN CROSSWALK BARS

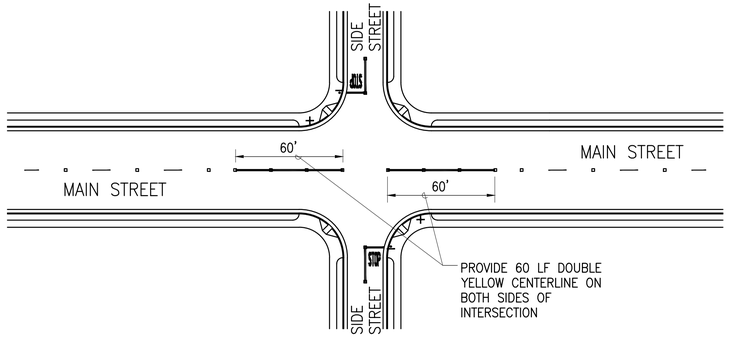


NON–MEDIAN ℄ MULTILANE

CROSSWALK STRIPING DETAILS

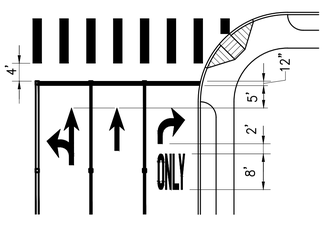
NOT TO SCALE



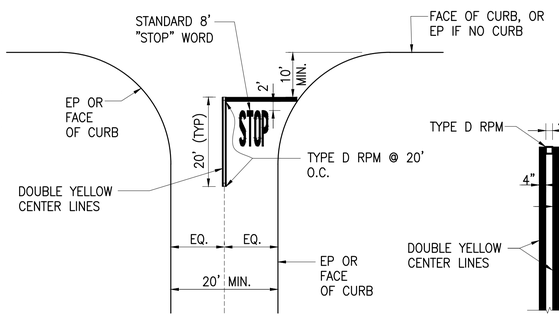


INTERSECTION 'NO PASSING' REQUIREMENT STRIPING

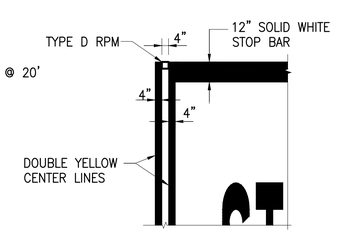
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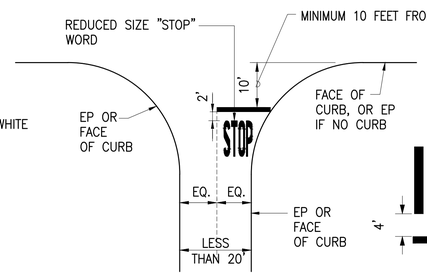
TYPICAL LANE ARROW MARKINGS



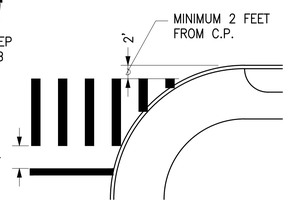
TYPICAL INTERSECTION PAVEMENT MARKINGS (MIN. 20' WIDTH)



CENTER LINE & STOP BAR



TYPICAL INTERSECTION PAVEMENT MARKINGS (LESS THAN 20' WIDTH)



STANDARD CROSSWALK WITH STOP BAR AT LOCATION WITH NO CURB RAMP

TYPICAL STOP BAR DETAILS

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.

EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

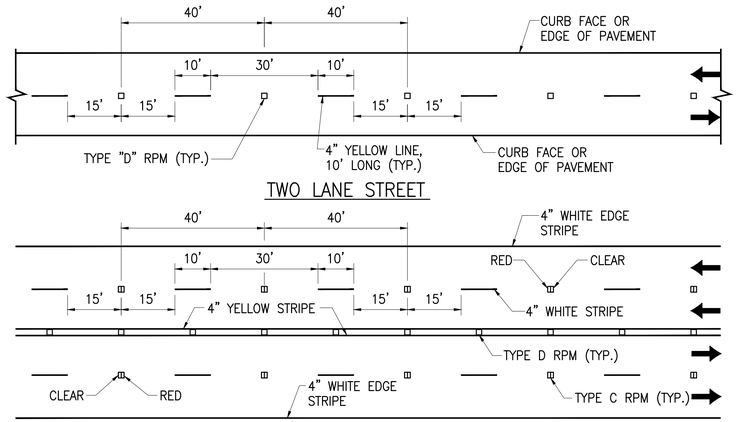
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING DETAILS - 2

DESIGN	KH	APPROVED:	DRAWING NO. C087
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 88
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

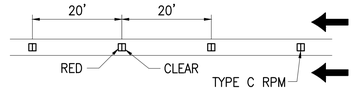
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_285 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\88 PAVEMENT MARKING DETAILS - 2.DWG
JOB NO. 0-20-024
040125

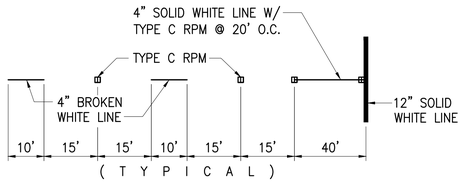


TWO LANE STREET

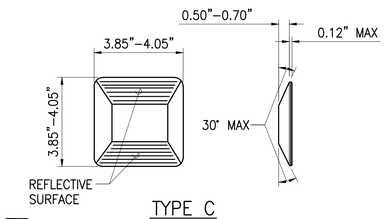
MULTI–LANE LANE LINES AND CENTER LINE



CHANNELIZING LINES OR SOLID LANE LINES

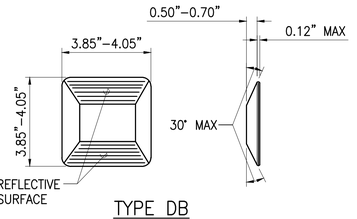


TYPICAL INTERSECTION PAVEMENT MARKING DETAIL AT STOP BAR



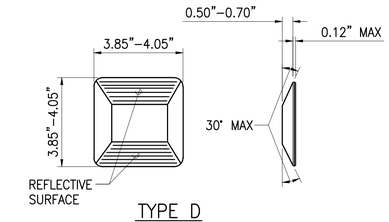
TYPE C

☐☐ RED–CLEAR REFLECTIVE MARKER



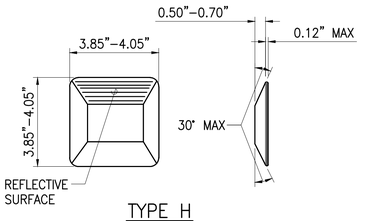
TYPE DB

☐ TWO–WAY BLUE REFLECTIVE MARKER



TYPE D

☐ TWO–WAY YELLOW REFLECTIVE MARKER



TYPE H

■ ONE–WAY YELLOW REFLECTIVE MARKER

TYPICAL INSTALLATION DETAILS OF RAISED PAVEMENT MARKERS

NOT TO SCALE

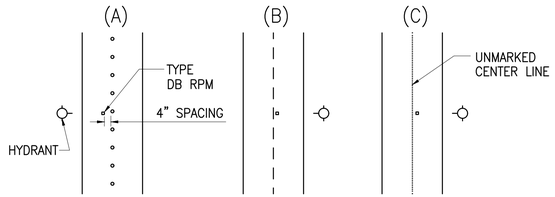


FIGURE 1
TWO LANE STREET

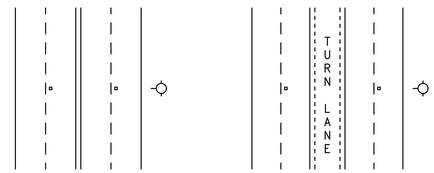


FIGURE 2
DIVIDED STREET

FIGURE 3
MULTI–LANE STREET W/ TURN LANE

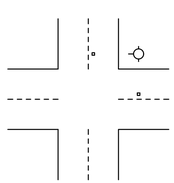


FIGURE 4
TWO LANE STREET AT INTERSECTION

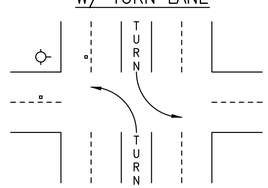


FIGURE 5
FOUR LANE STREET W/ TURN LANE AT INTERSECTION

HYDRANT MARKER LOCATION FOR STREETS

NOT TO SCALE

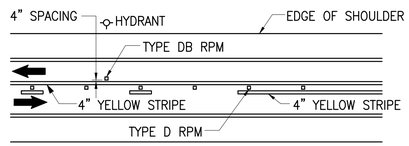


DIAGRAM A: TWO LANE HIGHWAY

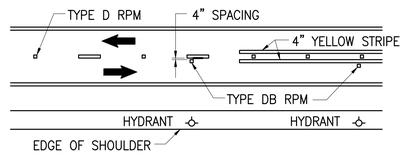


DIAGRAM B: TWO LANE HIGHWAY

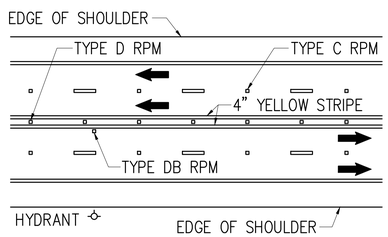


DIAGRAM C: MULTI–LANE HIGHWAY

HYDRANT MARKER LOCATION FOR HIGHWAYS

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING DETAILS - 3

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • HONOLULU, HAWAII

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

CHIEF, CIVIL DIVISION, DDC DATE

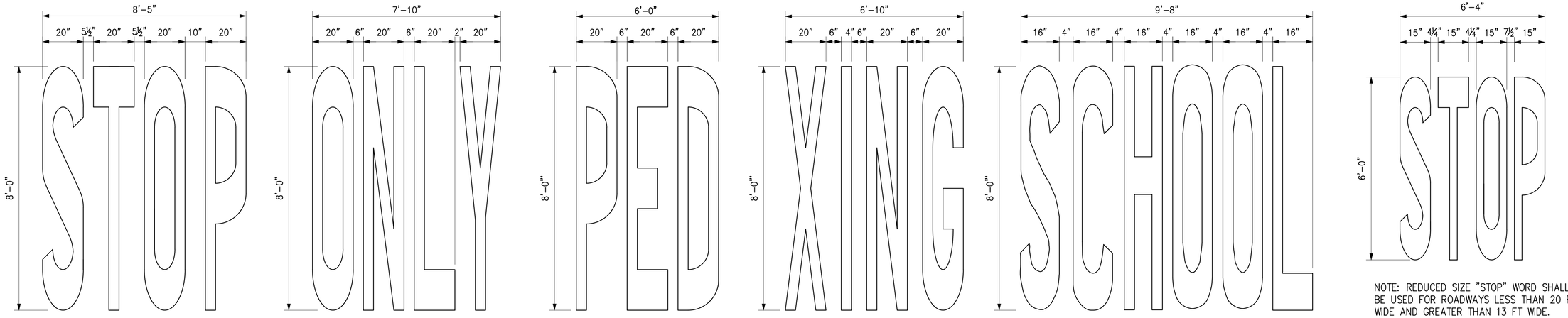
DRAWING NO. C088

SHEET NO. 89 OF 105 SHEETS

FILE DRAW FOLDER

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\89 PAVEMENT MARKING DETAILS - 3.DWG
JOB NO. 0-20-024
040125



NOTE: PAVEMENT ALPHABETS SHALL COMFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION PUBLICATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE CITY & COUNTY OF HONOLULU PUBLICATION, "TRAFFIC STANDARDS MANUAL, DEPARTMENT OF TRANSPORTATION SERVICES" AND ITS AMENDMENTS.

STANDARD 8'-0" PAVEMENT WORDS

NOT TO SCALE

NOTE: REDUCED SIZE "STOP" WORD SHALL BE USED FOR ROADWAYS LESS THAN 20 FT WIDE AND GREATER THAN 13 FT WIDE.

REDUCED SIZE "STOP" WORD

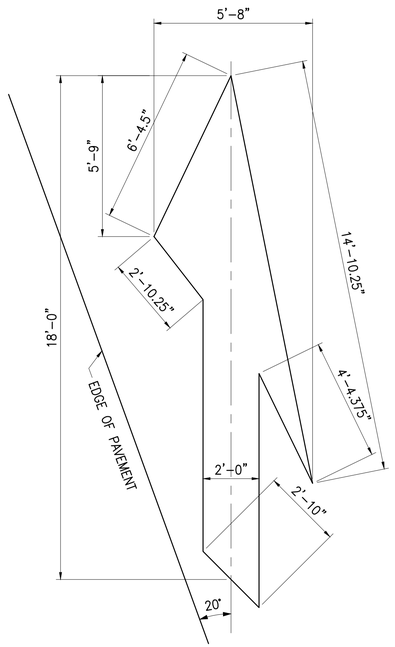
NOT TO SCALE

STRAIGHT ARROW

TURN ARROW

NOTE:
SEE STRAIGHT AND TURN ARROWS FOR DETAILED DIMENSIONS.

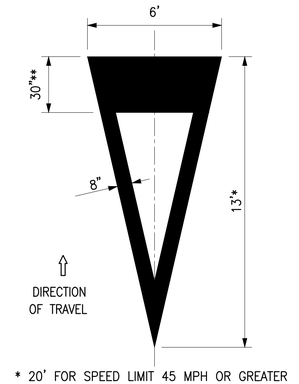
COMBINED ARROWS



LANE REDUCTION ARROW

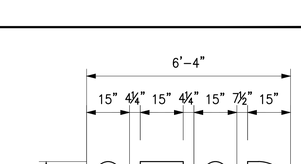
TYPICAL PAVEMENT ARROWS

NOT TO SCALE



* 20' FOR SPEED LIMIT 45 MPH OR GREATER
** 36" FOR SPEED LIMIT 45 MPH OR GREATER

YIELD AHEAD TRIANGLE SYMBOL



YIELD LINE LAYOUT

TYPICAL YIELD LINE/ARROW DETAILS

NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

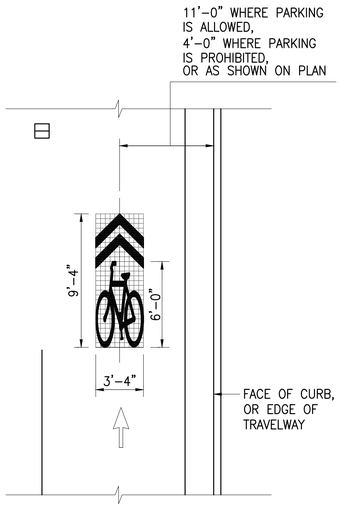
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING DETAILS - 4

DESIGN	KH	APPROVED:	DRAWING NO. C089
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 90 OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

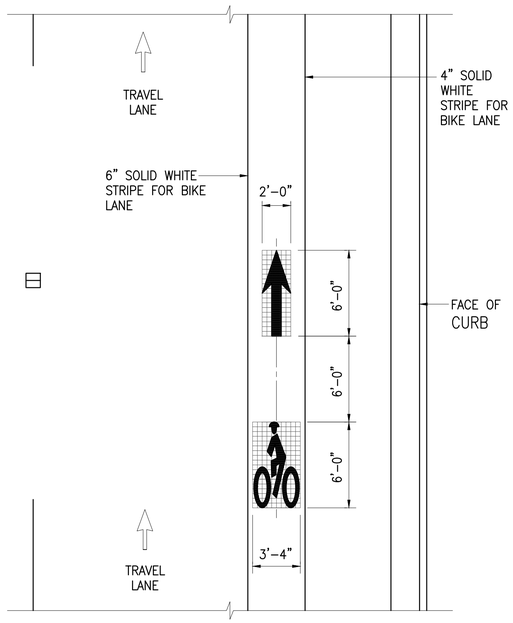
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKK\DWG\90 PAVEMENT MARKING DETAILS - 4.DWG
JOB NO. 0-20-024
040125

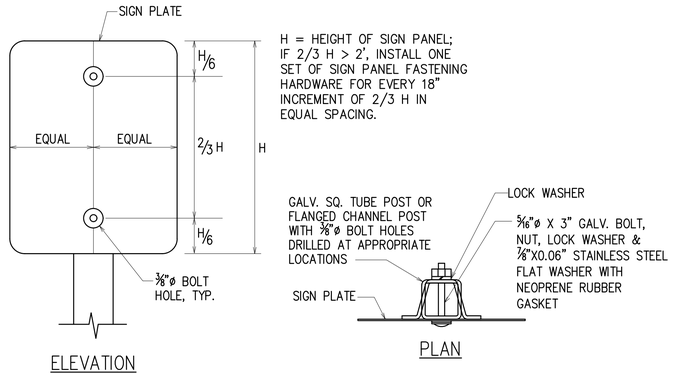


NOTE:
THE SHARED LANE MARKING SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND SPACED AT INTERVALS NOT GREATER THAN 250 FEET THEREAFTER.

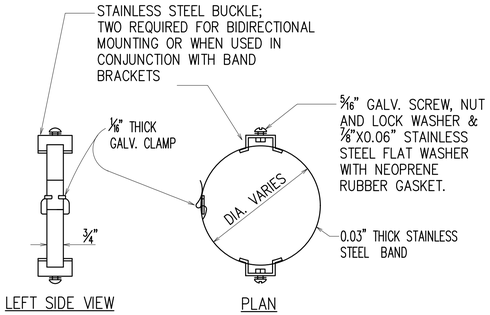
SHARED LANE MARKING
NOT TO SCALE



HELMETED BICYCLIST SYMBOL & ARROW
NOT TO SCALE

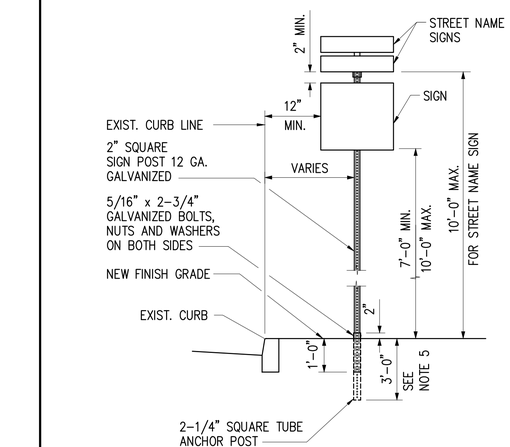


POST MOUNTING INSTALLATION
NOT TO SCALE



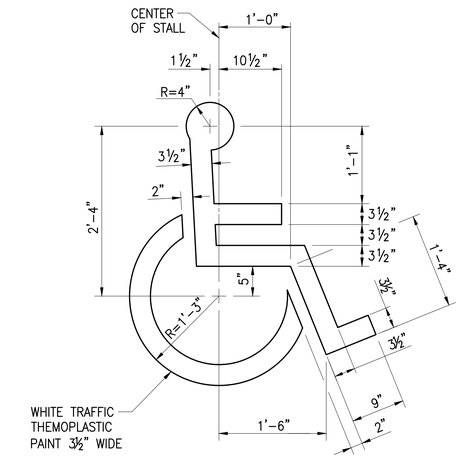
NOTE:
MOUNT SIGNS AT 7' MIN. HEIGHT TO BOTTOM OF SIGN.

NEW SIGN ON EXISTING STREET LIGHT POLE MOUNTING DETAIL
NOT TO SCALE

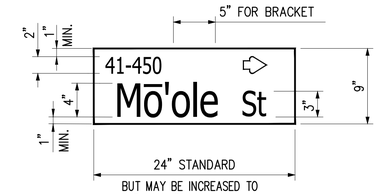


STREET NAME SIGN NOTES:
1. REFERENCE STANDARD DETAILS T-1 AND T-14 FOR STREET NAME SIGN INSTALLATION. SEE STREET NAME SIGN DETAIL THIS SHEET.
2. SUBMIT SHOP DRAWINGS OF STREET NAME SIGNS AND CONNECTION DETAILS PRIOR TO FABRICATION OF SIGNS.

INSTALLATION OF NEW SIGN POST WITH ANCHOR POST
NOT TO SCALE

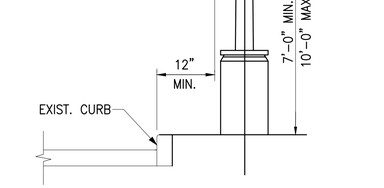


HANDICAP PAVEMENT MARKING DETAIL
NOT TO SCALE

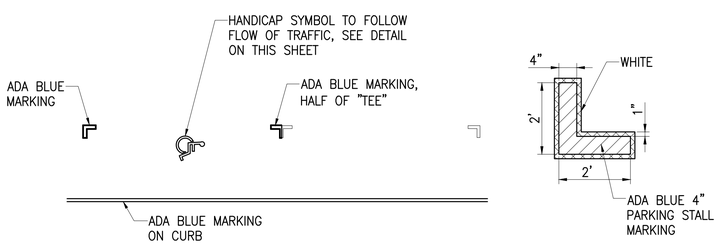


STREET NAME SIGN NOTES:
1. REFERENCE STANDARD DETAILS T-1 AND T-14 FOR STREET NAME SIGN INSTALLATION..
2. SUBMIT SHOP DRAWINGS OF STREET NAME SIGNS AND CONNECTION DETAILS PRIOR TO FABRICATION OF SIGNS.
3. STREET NAME SIGN SHALL BE DOUBLE SIDED WITH ARROW POINTING TOWARDS SAME DIRECTION FROM BOTH APPROACHES.

STREET NAME SIGN DETAIL
NOT TO SCALE



HEIGHT AND LATERAL LOCATION OF SIGN ON EXISTING STREET LIGHT POLE
NOT TO SCALE



HANDICAP STALL MARKING DETAIL
NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.
CIVIL ENGINEERS · SURVEYORS · HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

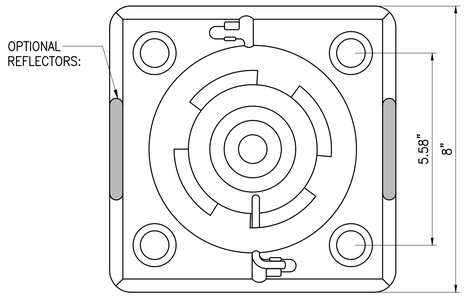
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING DETAILS - 5

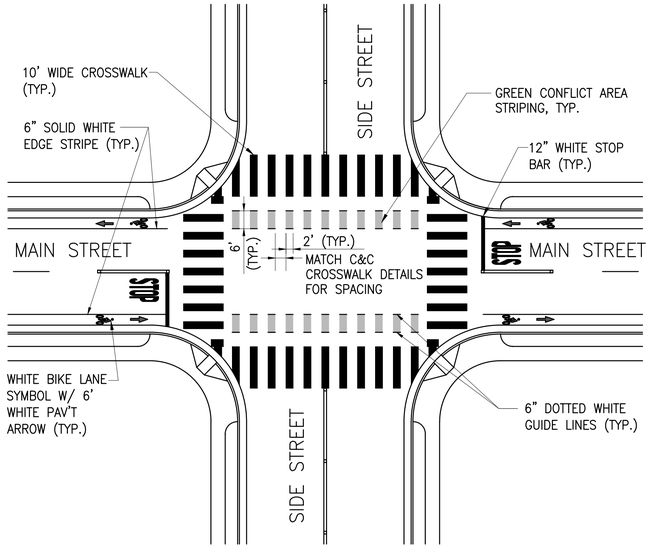
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DRAWN	MV		SHEET NO. 91
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

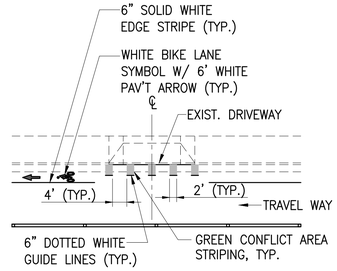
Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\91 PAVEMENT MARKING DETAILS - 5.DWG
JOB NO. 0-20-024
040125



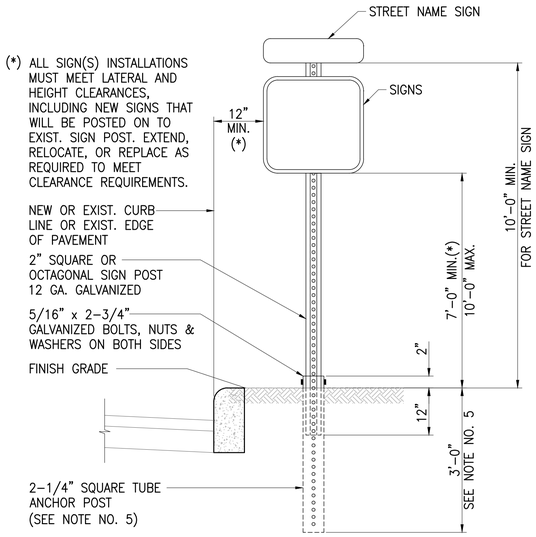
SURFACE MOUNT, QUARTER TURN BASE
NOT TO SCALE



TYPICAL LAYOUT AT INTERSECTIONS
NOT TO SCALE



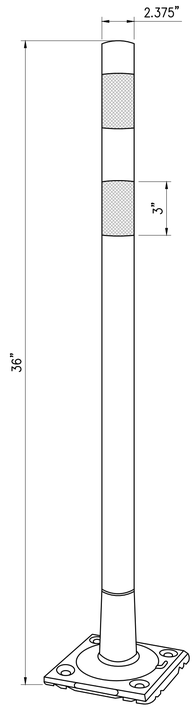
TYPICAL LAYOUT AT DRIVEWAYS
NOT TO SCALE



ANCHOR POST NOTES:

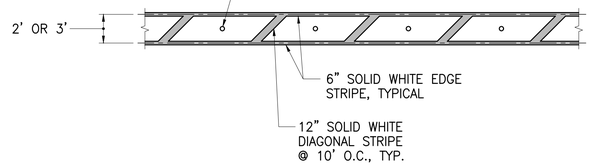
1. KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
2. SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
3. OCTAGON SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON TWO SIDES.
4. USE 5/16" x 2-3/4" BOLTS TO SECURE THE OCTAGONAL AND SQUARE TUBING POST ONTO THE 2-1/4" SQUARE TUBE ANCHOR POST.
5. MINIMUM BURY DEPTH FOR THE 2-1/4" ANCHOR POST SHALL BE AS FOLLOWS:
   4'-0" MIN. AT POOR SOIL CONDITIONS
   2'-6" MIN. AT ROCKY CONDITIONS.

INSTALLATION OF NEW OR RELOCATED SIGN POST WITH ANCHOR POST, WITHOUT CONCRETE FOOTING
NOT TO SCALE

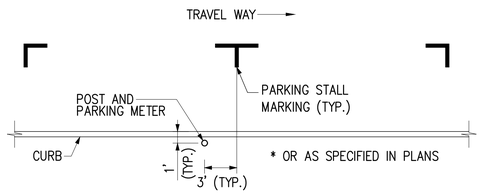


NOTE: OMEGA POST OR APPROVED SUBSTITUTE

2" HIGH SPEED HIGH PERFORMANCE DELINEATOR
NOT TO SCALE



TYPICAL CHANNELIZED STRIPING ALONG BIKE LANE
NOT TO SCALE



TYPICAL PARKING METER POST LOCATION
NOT TO SCALE

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO LICENSED PROFESSIONAL ENGINEER No. 6998-C HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

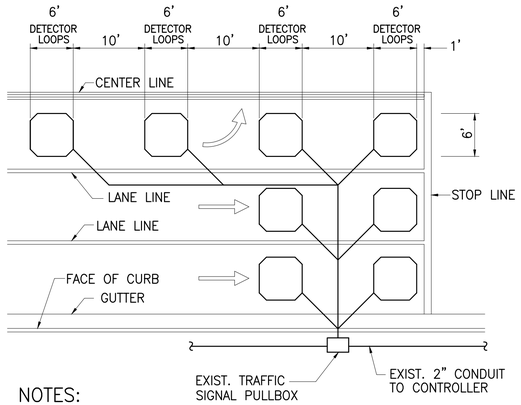
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

PAVEMENT MARKING DETAILS - 6

DESIGN	KH	APPROVED:	DRAWING NO. C091
DRAWN	MV		SHEET NO. 92
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

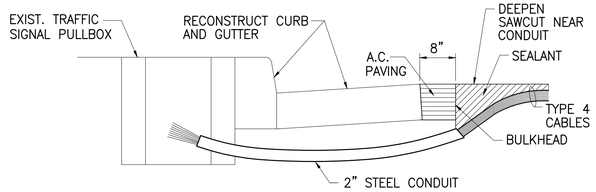
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JOB NO. 0-20-024
040125



NOTES:

1. CENTER DETECTOR LOOPS IN LANES.
2. COLLECTOR CABLES SHALL BE TWISTED 2 TURNS PER FOOT.
3. NUMBER OF LOOPS AND LOCATIONS VARY. SEE PROJECT PLANS.
4. NUMBER AND LOCATIONS OF COLLECTOR SAWCUTS MAY BE VARIED IN THE FIELD.
5. LOOPS MAY BE PROVIDED AS SQUARE OR CIRCULAR.

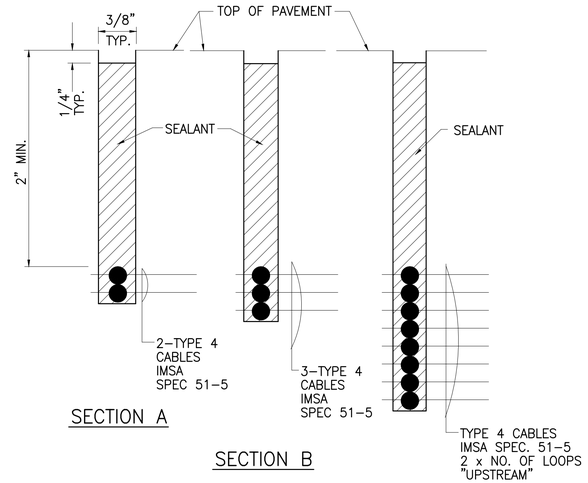
TYPICAL DETECTOR LOOP LAYOUT
NOT TO SCALE



NOTES ON CONSTRUCTION AT END OF SAWCUT

1. SEAL ROADWAY END OF CONDUIT AFTER INSTALLATION OF CONDUCTORS.
2. INSTALL BULKHEAD ACROSS CONDUIT TRENCH.
3. PLACE SEALANT IN SAWCUT.
4. BACKFILL OVER CONDUIT WITH NEW A.C.P.
5. RECONSTRUCT CURB AND GUTTER AS REQUIRED.

DETAIL OF DETECTOR LOOP INSTALLATION AT EDGE OF PAVEMENT
NOT TO SCALE

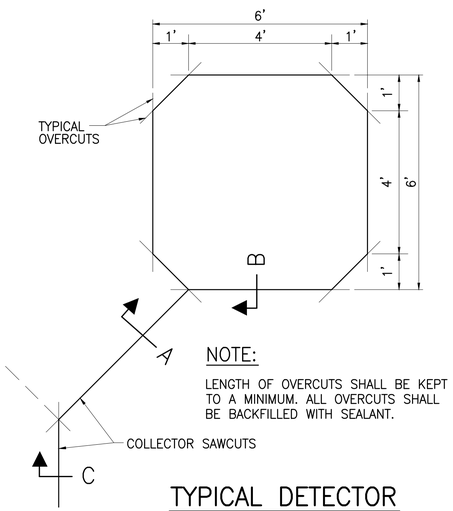


SECTION A

SECTION B

SECTION C

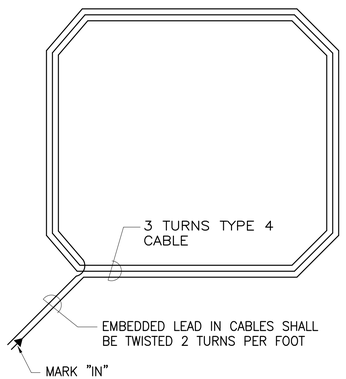
TYPICAL SECTIONS THROUGH DETECTOR LOOP
NOT TO SCALE



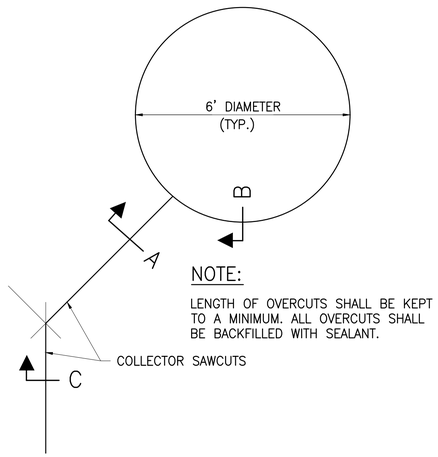
NOTE:

LENGTH OF OVERCUTS SHALL BE KEPT TO A MINIMUM. ALL OVERCUTS SHALL BE BACKFILLED WITH SEALANT.

TYPICAL DETECTOR LOOP SAWCUT DETAIL (SQUARE ALTERNATIVE)
NOT TO SCALE



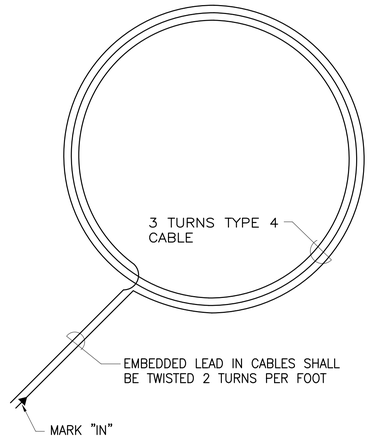
TYPICAL DETECTOR LOOP WIRING DIAGRAM (SQUARE ALTERNATIVE)
NOT TO SCALE



NOTE:

LENGTH OF OVERCUTS SHALL BE KEPT TO A MINIMUM. ALL OVERCUTS SHALL BE BACKFILLED WITH SEALANT.

TYPICAL DETECTOR LOOP SAWCUT DETAIL (CIRCULAR ALTERNATIVE)
NOT TO SCALE



TYPICAL DETECTOR LOOP WIRING DIAGRAM (CIRCULAR ALTERNATIVE)
NOT TO SCALE

NOTE:

DETECTOR LOOPS MAY BE PROVIDED AS SQUARE OR CIRCULAR.

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

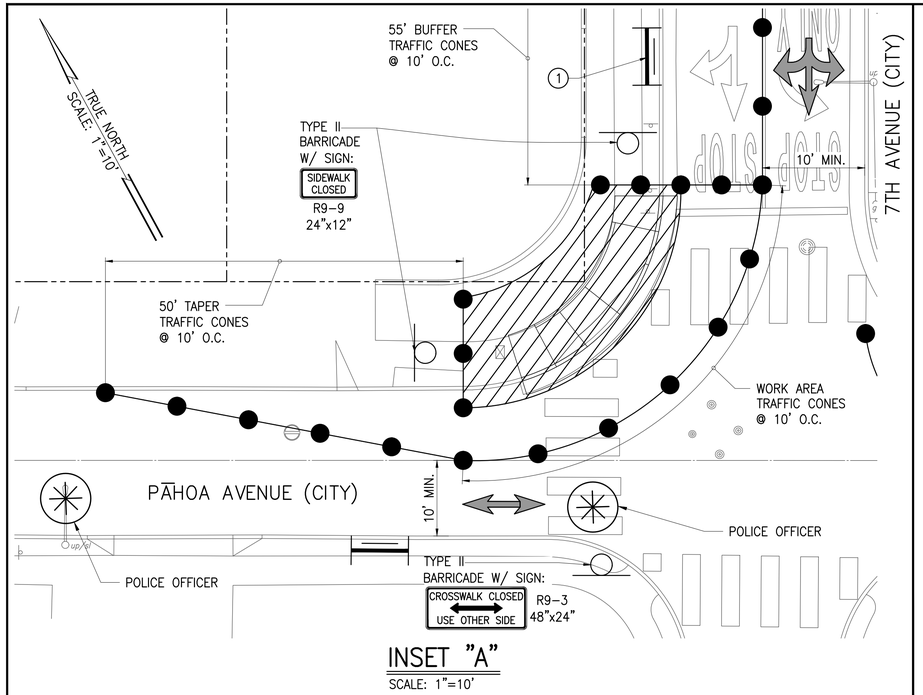
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

VEHICLE DETECTOR LOOP DETAILS

DESIGN	KH	APPROVED:	DRAWING NO. C092
DRAWN	MV		SHEET NO. 93
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

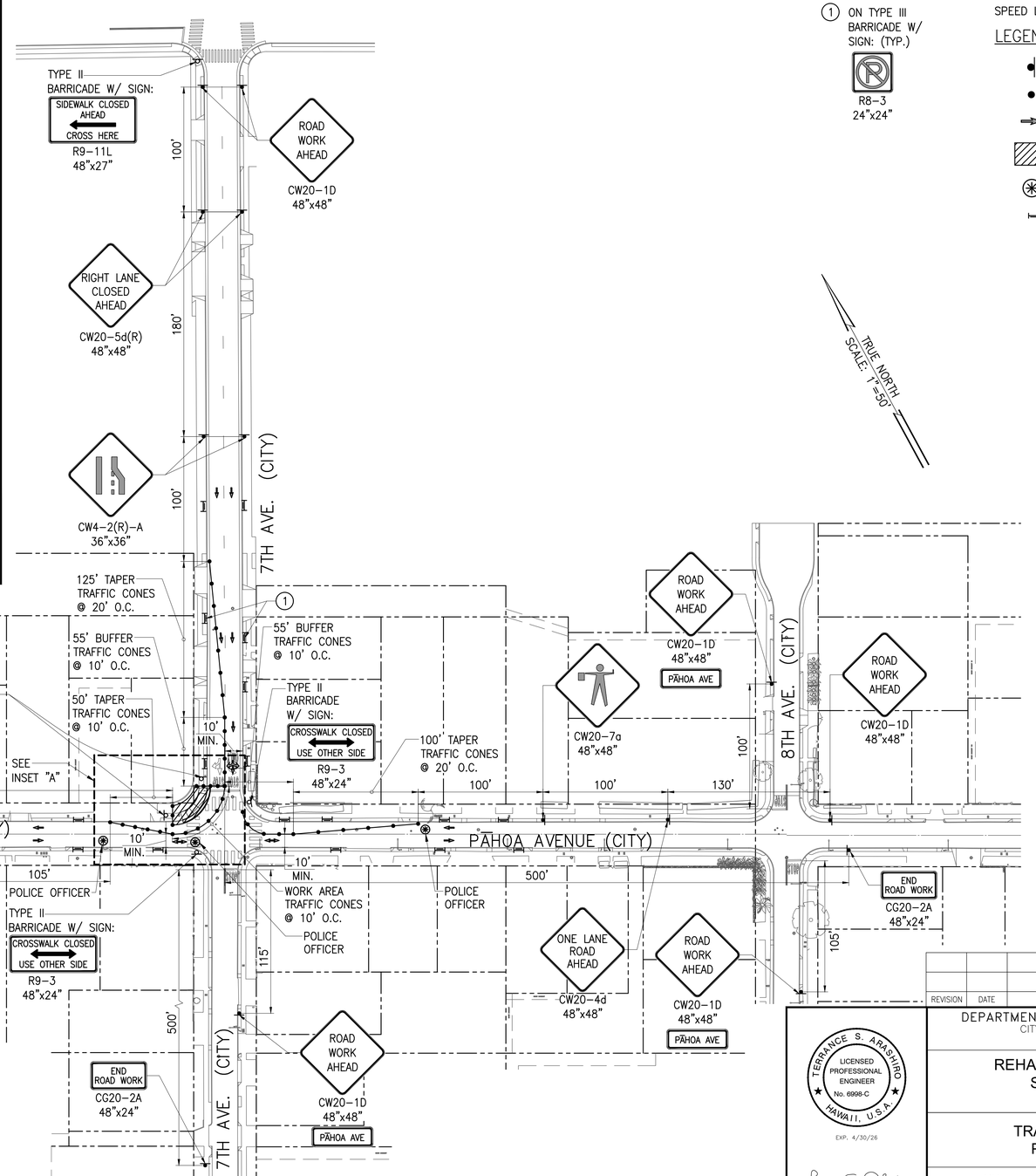
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Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\93 VEHICLE DETECTOR LOOP DETAILS.DWG
JOB NO. 0-20-024
040125



INSET "A"

SCALE: 1"=10'



TRAFFIC CONTROL PLAN – 1

SCALE: 1"=50'

1 ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3
24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

TRUE NORTH
SCALE: 1"=50'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 1
PAHOA AVE & 7TH AVE

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

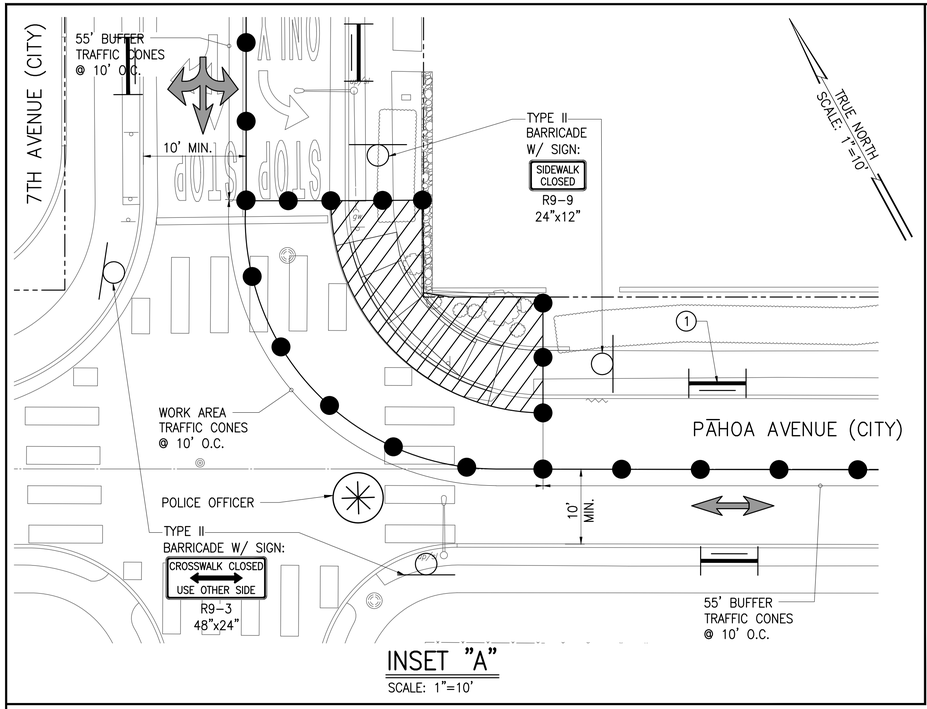
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CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 94
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX-XX	FILE DRAW FOLDER	

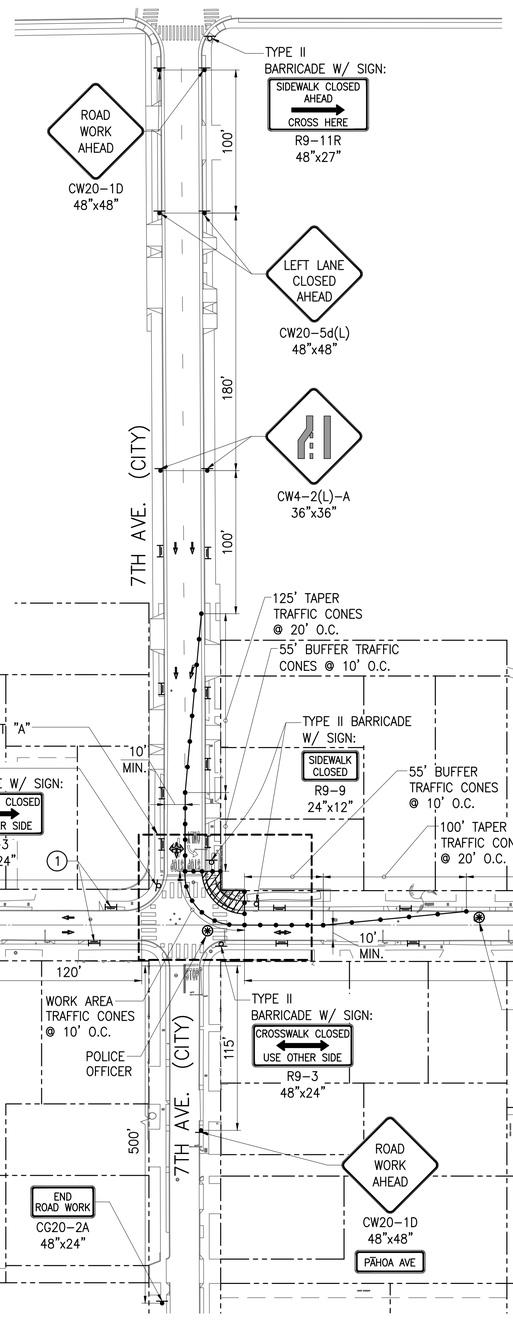
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Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\94 TRAFFIC CONTROL PLAN - 1 PAHOA AVE & 7TH AVE.DWG
JOB NO. 0-20-024
040125



INSET "A"

SCALE: 1"=10'



TRAFFIC CONTROL PLAN – 2

SCALE: 1"=50'

(1) ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3
24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

TRUE NORTH
SCALE: 1"=50'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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LICENSED PROFESSIONAL ENGINEER
No. 6998-C
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CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

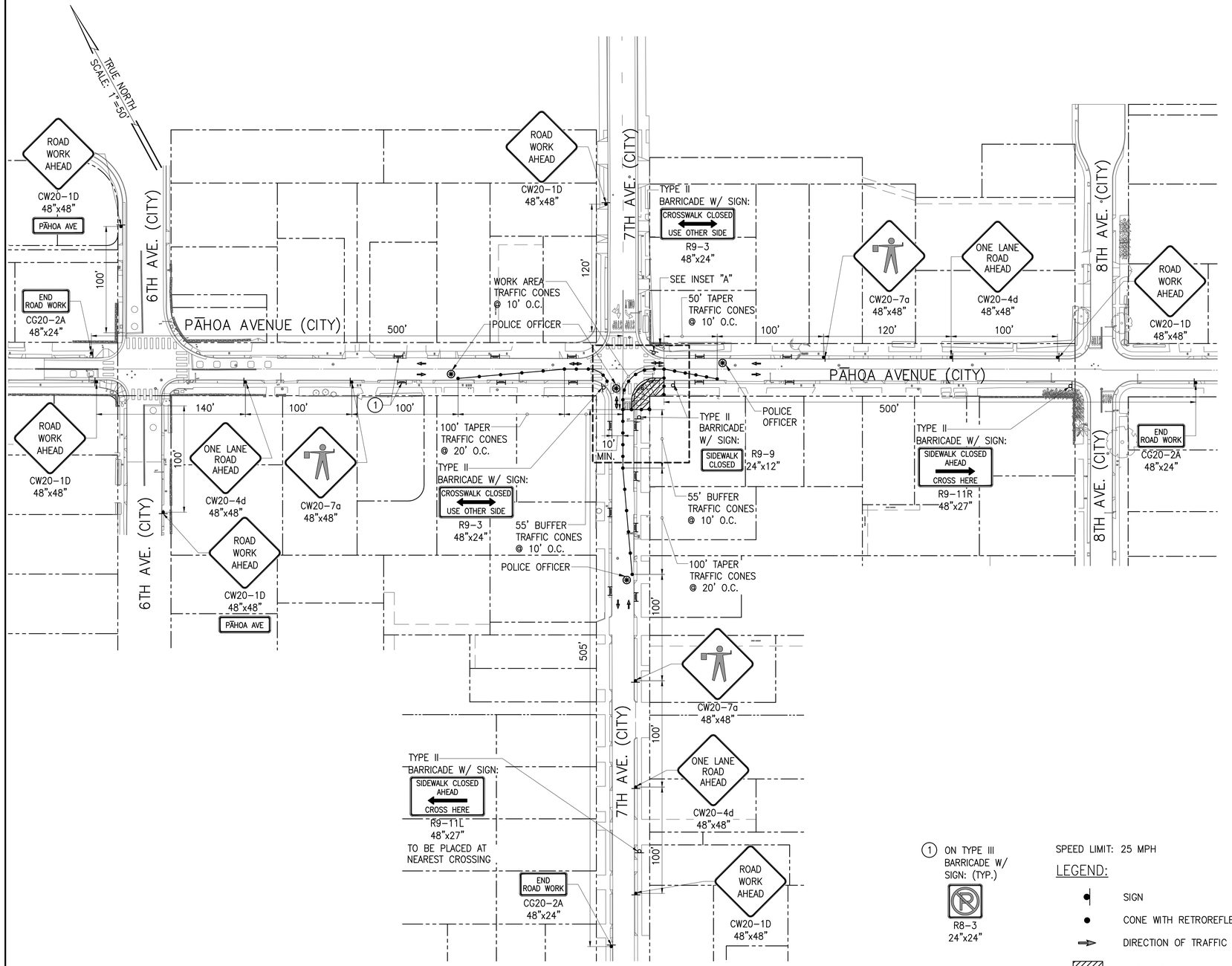
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 2
PAHOA AVE & 7TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C094
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DATE	3/17/25		
JOB NO.	XX-XX	FILE DRAW FOLDER	

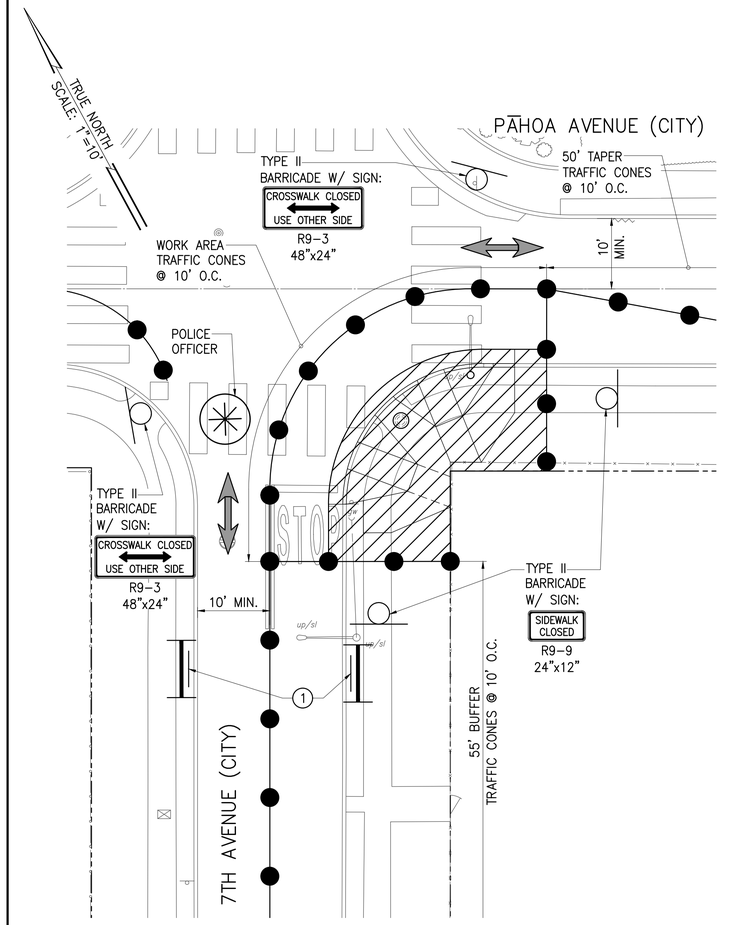
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JOB NO. 0-20-024
040125



TRAFFIC CONTROL PLAN – 3

SCALE: 1"=50'



INSET "A"

SCALE: 1"=10'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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REHABILITATION OF LOCALIZED STREETS - PHASE 26A

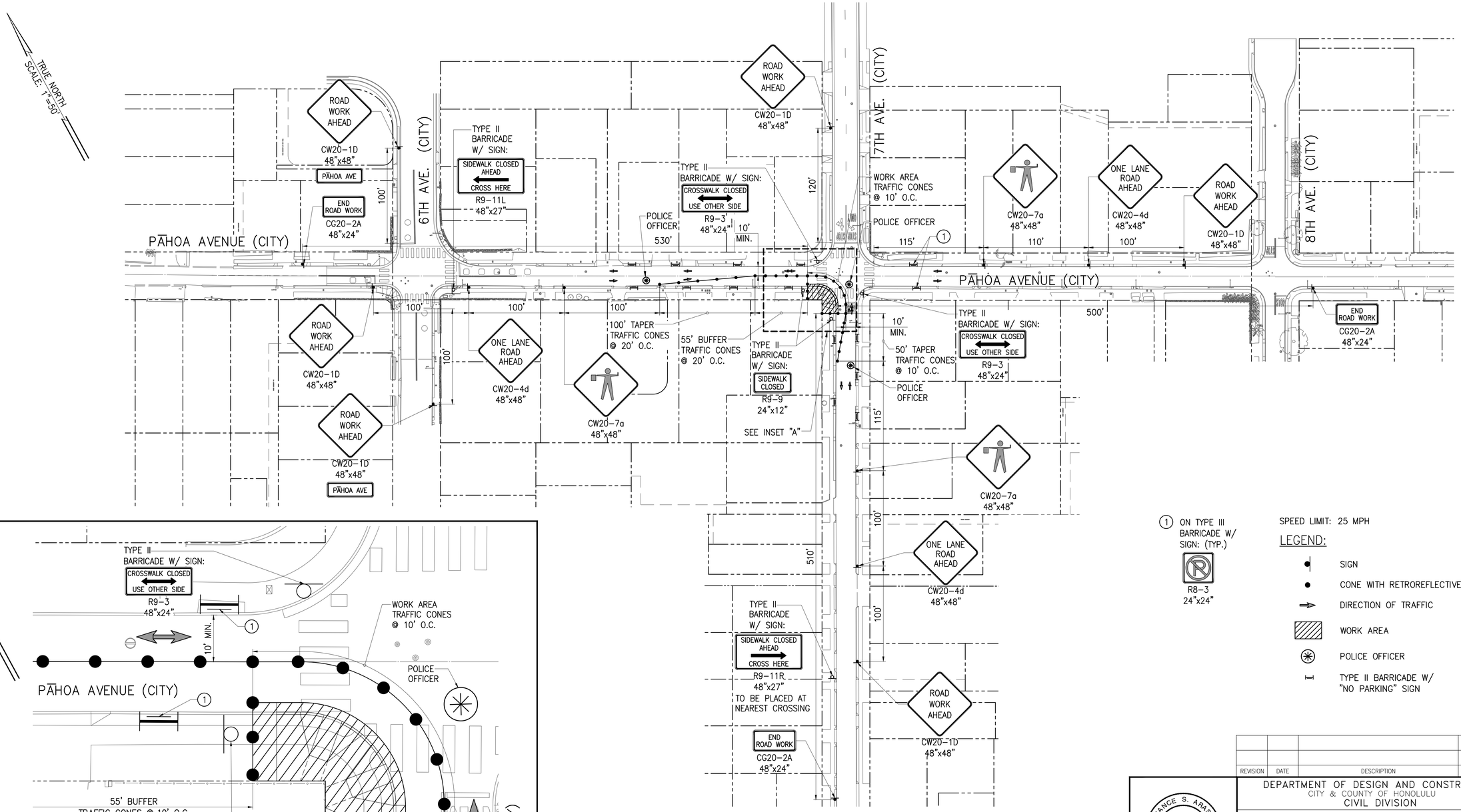
HONOLULU, O'AHU, HAWAI'I

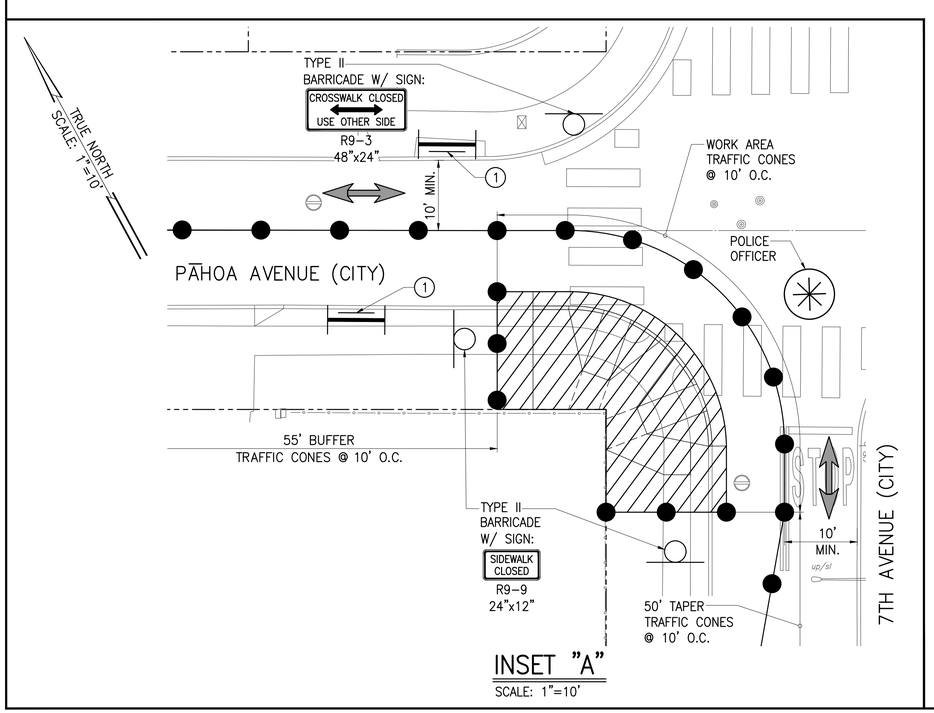
TRAFFIC CONTROL PLAN - 3
PAHOA AVE & 7TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C095
DRAWN	MV		SHEET NO. 96
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\96 TRAFFIC CONTROL PLAN - 3 PAHOA AVE & 7TH AVE.DWG
JOB NO. 0-20-024
040125





INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 4
SCALE: 1"=50'

① ON TYPE III BARRICADE W/ SIGN: (TYP.)
R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:
- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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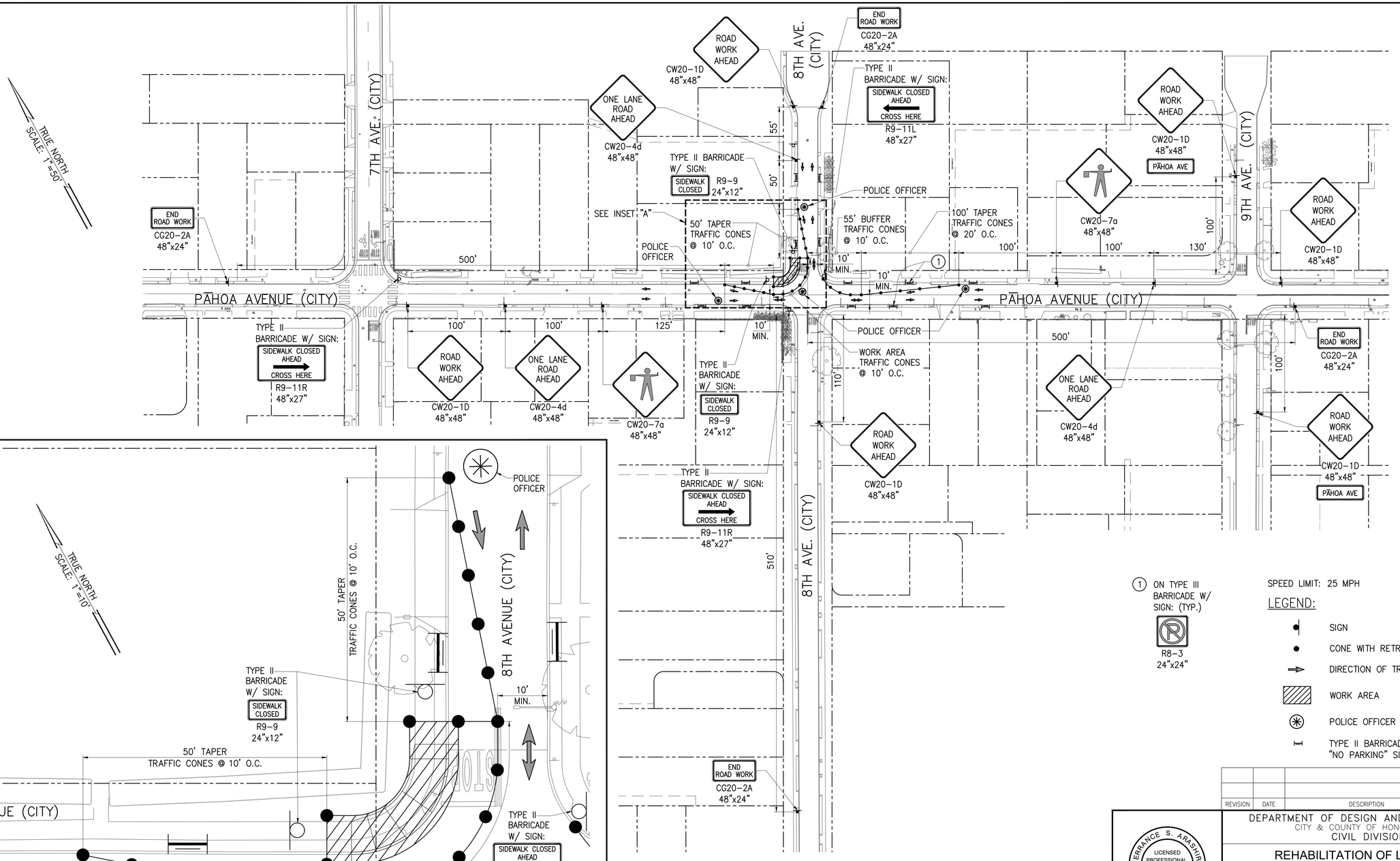
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

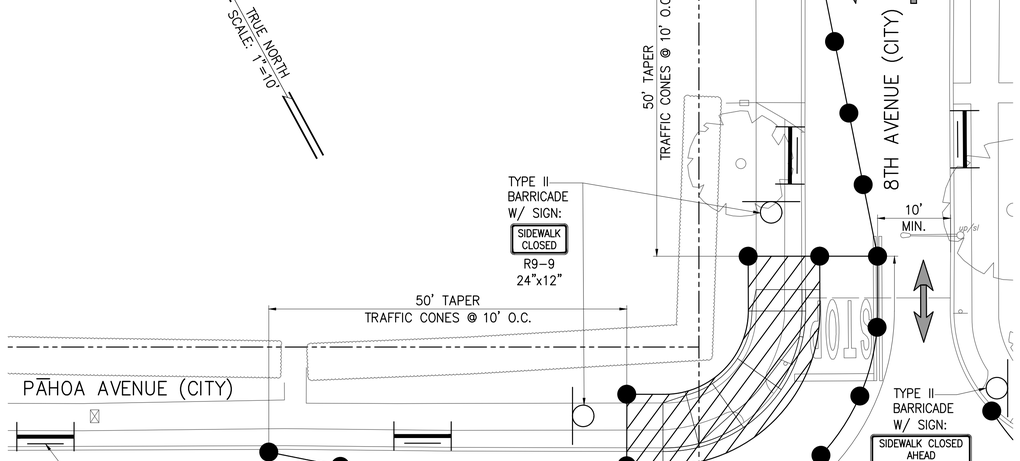
TRAFFIC CONTROL PLAN - 4
PAHOA AVE & 7TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C096
DRAWN	MV		SHEET NO. 97
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
040125





INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 5
SCALE: 1"=50'

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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CITY & COUNTY OF HONOLULU
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REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 5
PAHOA AVE & 8TH AVE

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No. 6998-C
HAWAII, U.S.A.
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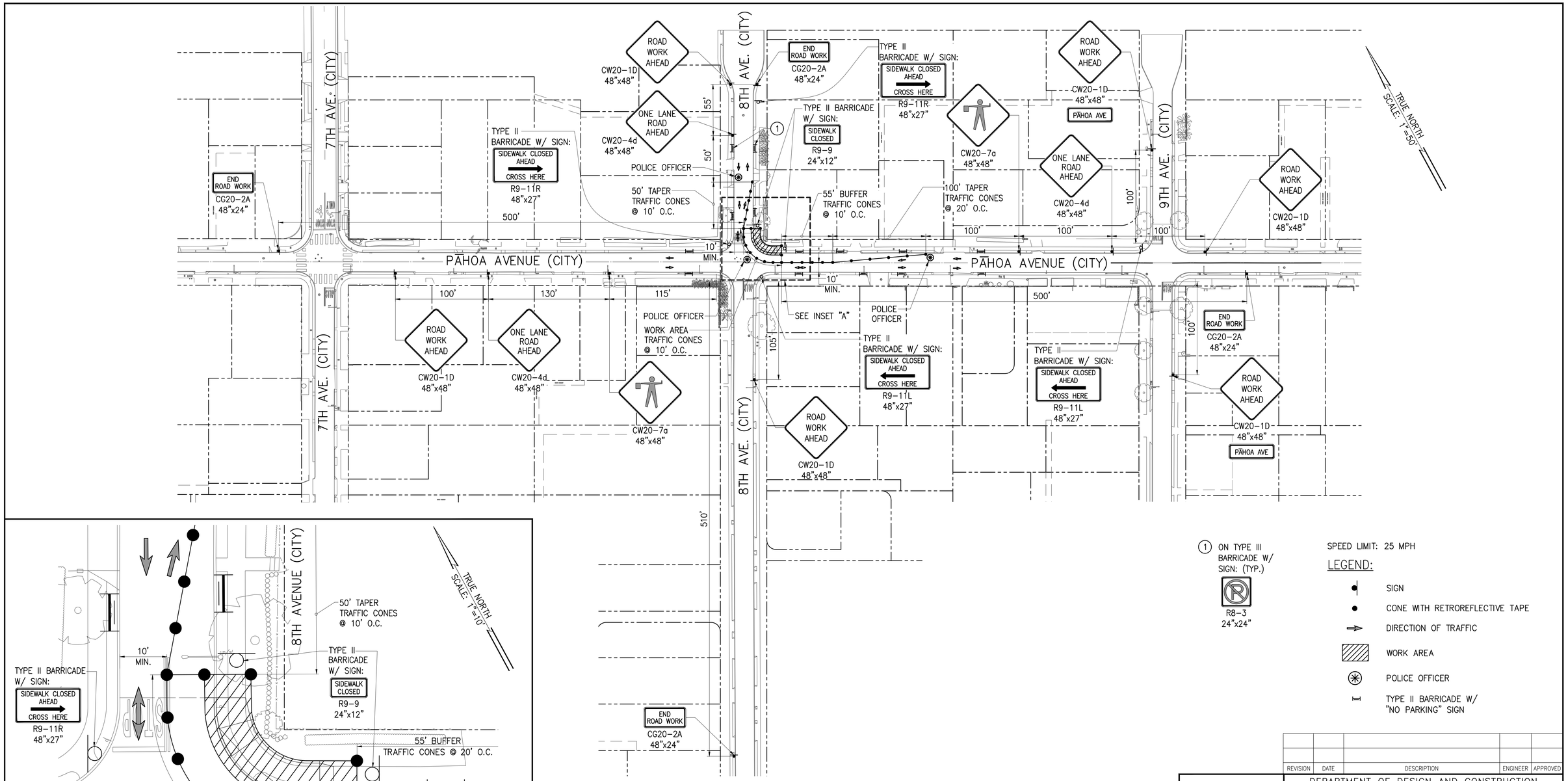
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DRAWING NO. C097
SHEET NO. 98 OF 105 SHEETS

FILE	DRAW	FOLDER

FILE	POCKET	FOLDER	NO.

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JOB NO. 0-20-024
040125



INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 6
SCALE: 1"=50'

(1) ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

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CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 6
PAHOA AVE & 8TH AVE

DESIGN	KH
DRAWN	MV
CHECKED	TA
DATE	3/17/25
JOB NO.	XX–XX

APPROVED:

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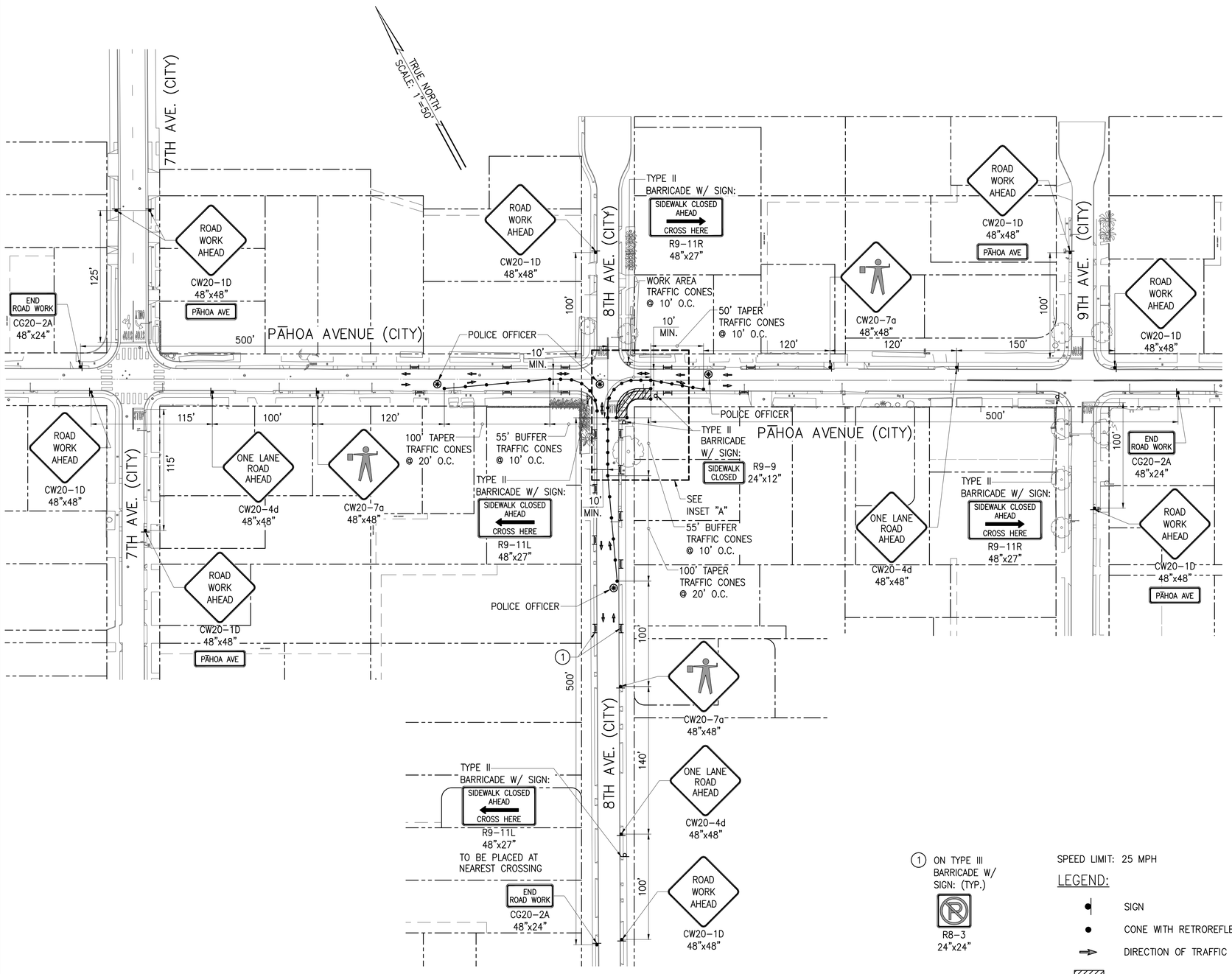
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SHEET NO. 99 OF 105 SHEETS

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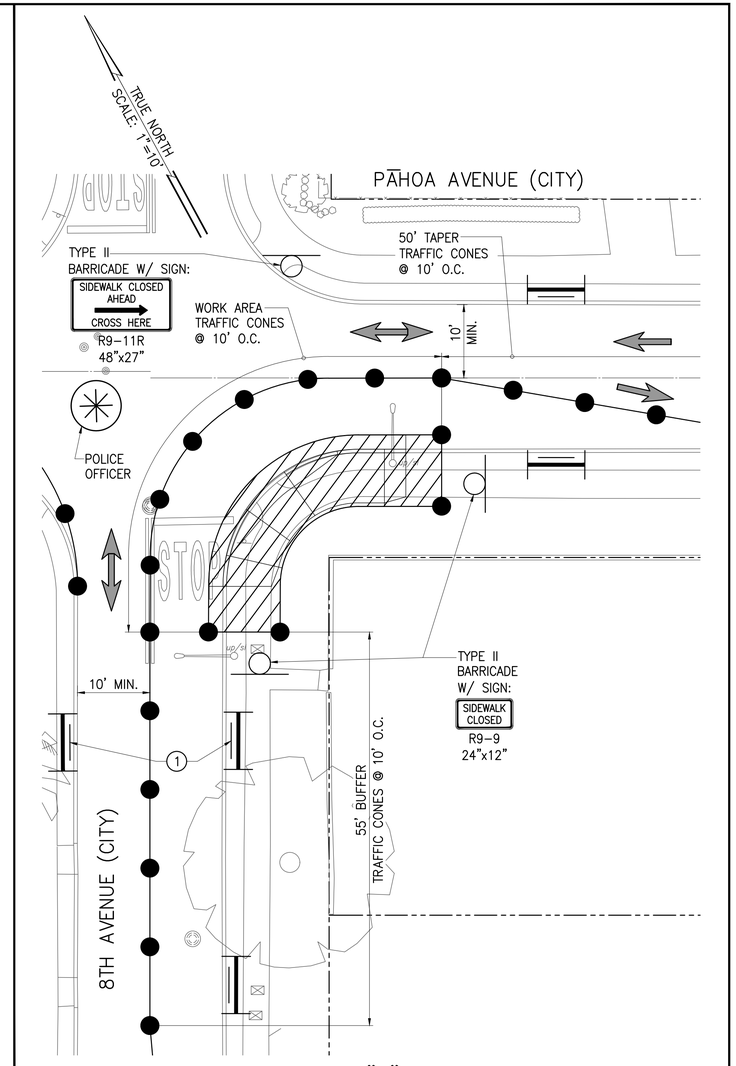
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JOB NO. 0-20-024
040125



TRAFFIC CONTROL PLAN – 7

SCALE: 1"=50'



INSET "A"

SCALE: 1"=10'

① ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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REHABILITATION OF LOCALIZED STREETS - PHASE 26A

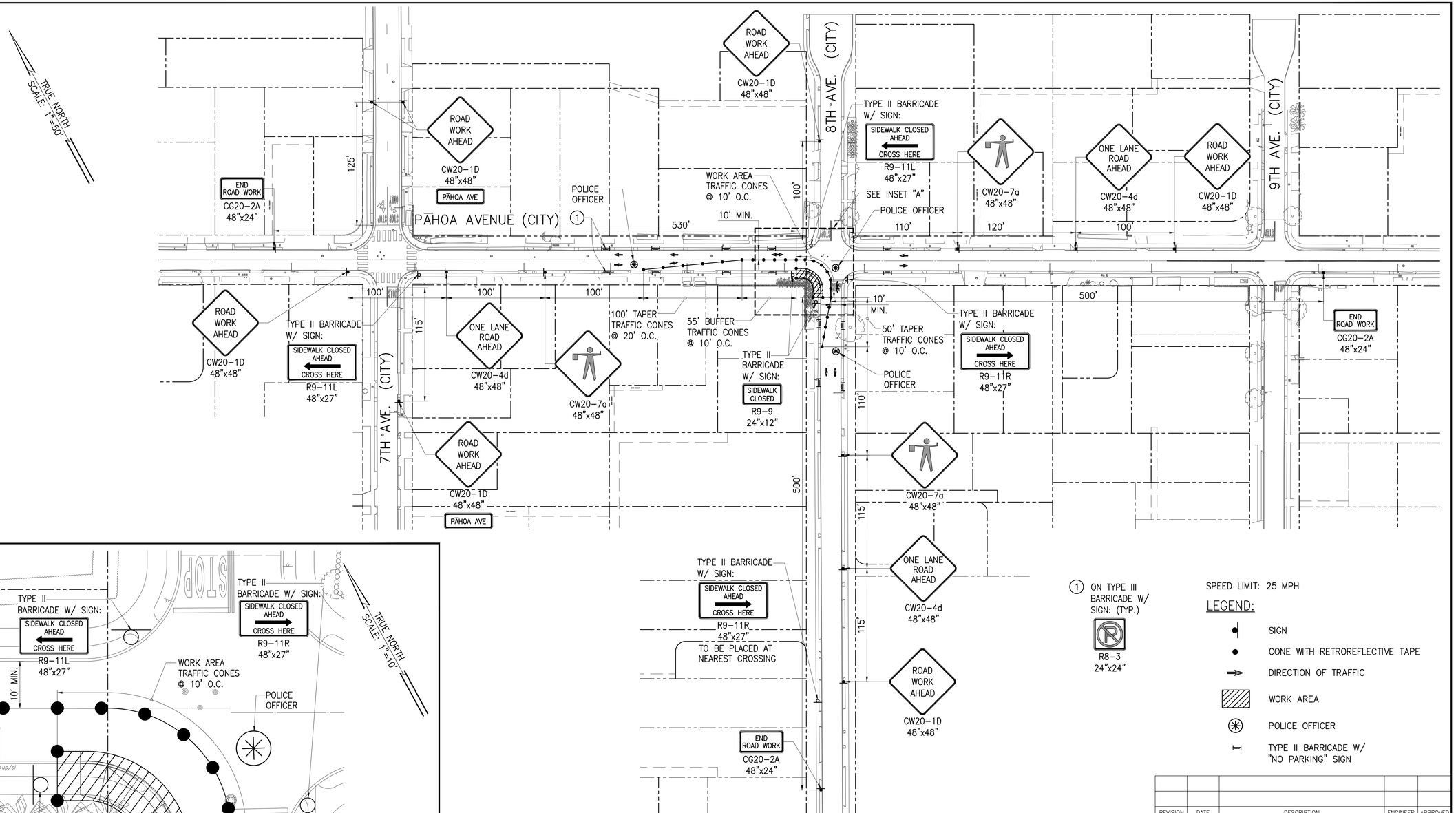
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 7
PAHOA AVE & 8TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C099
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JOB NO.	XX–XX	FILE DRAW FOLDER	

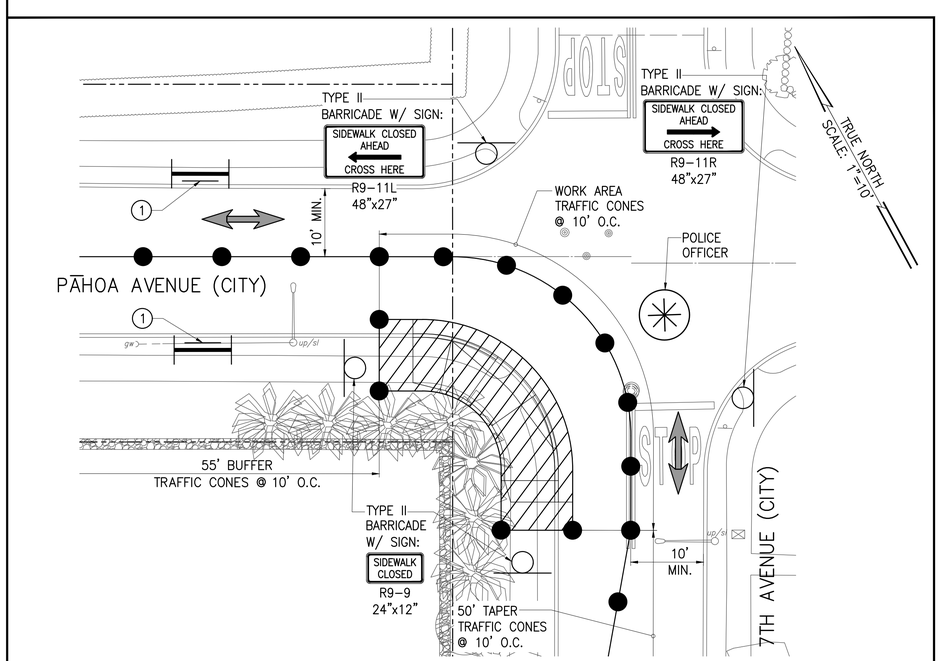
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JOB NO. 0-20-024
040125



TRAFFIC CONTROL PLAN – 8

SCALE: 1"=50'



INSET "A"

SCALE: 1"=10'

(1) ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

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CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 8
PAHOA AVE & 8TH AVE

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No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

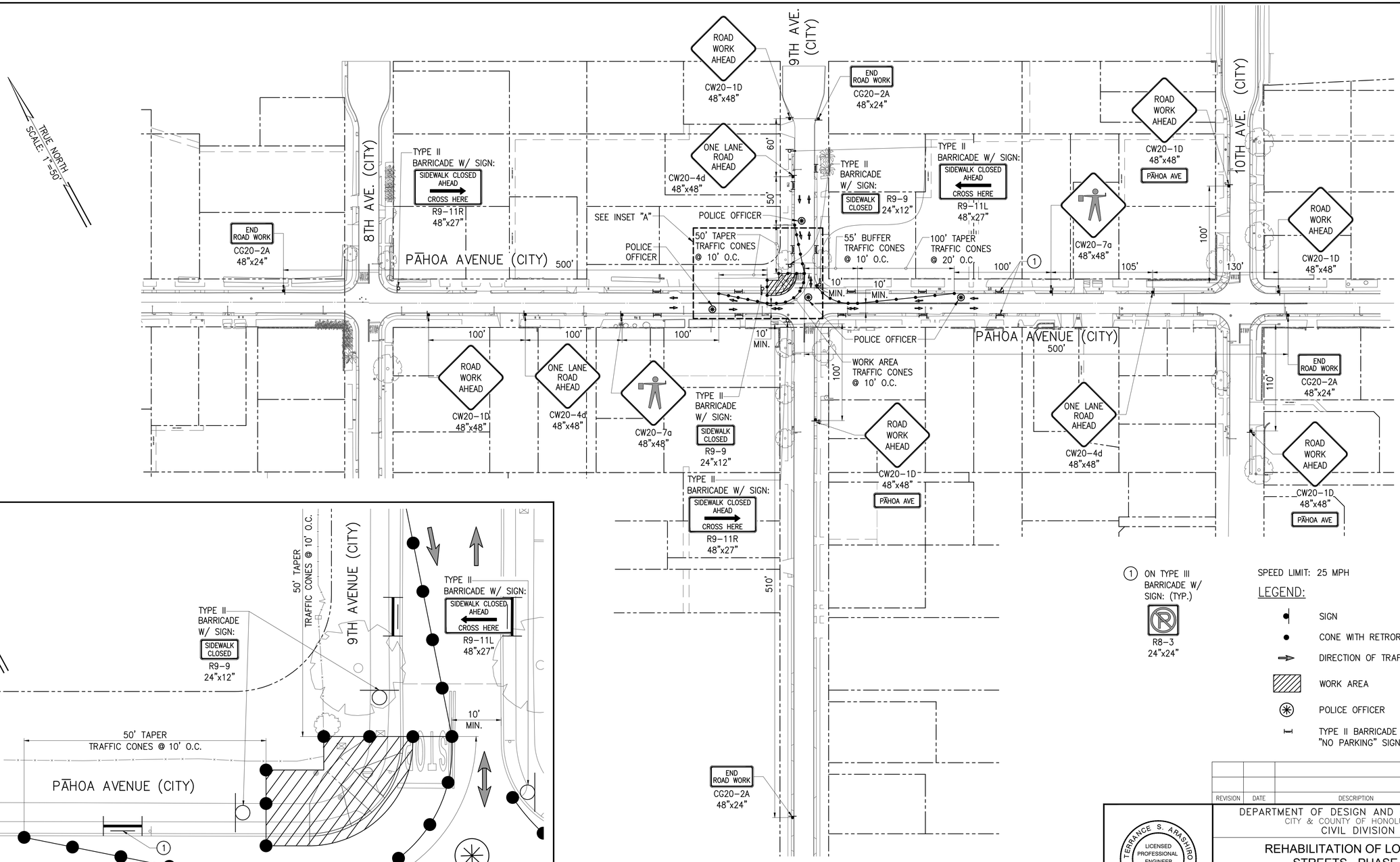
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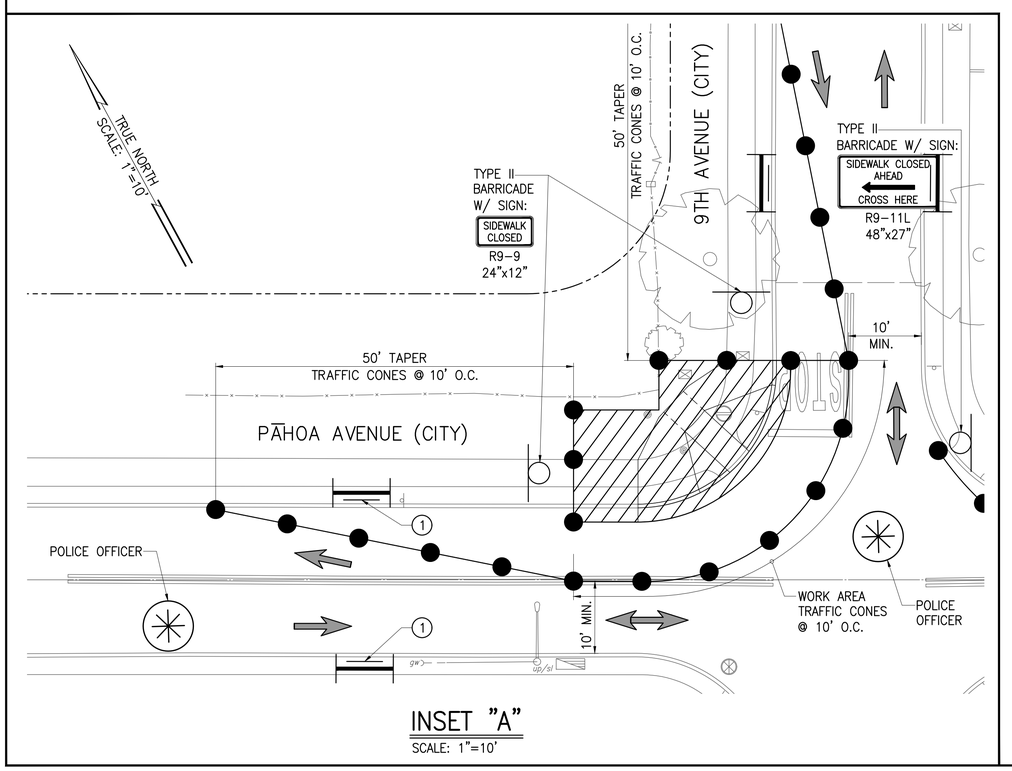
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DESIGN	KH	APPROVED:	DRAWING NO. C100
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 101
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_265 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\101 TRAFFIC CONTROL PLAN - 8 PAHOA AVE & 8TH AVE.DWG
JOB NO. 0-20-024
040125





INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 9
SCALE: 1"=50'

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 9
PAHOA AVE & 9TH AVE

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

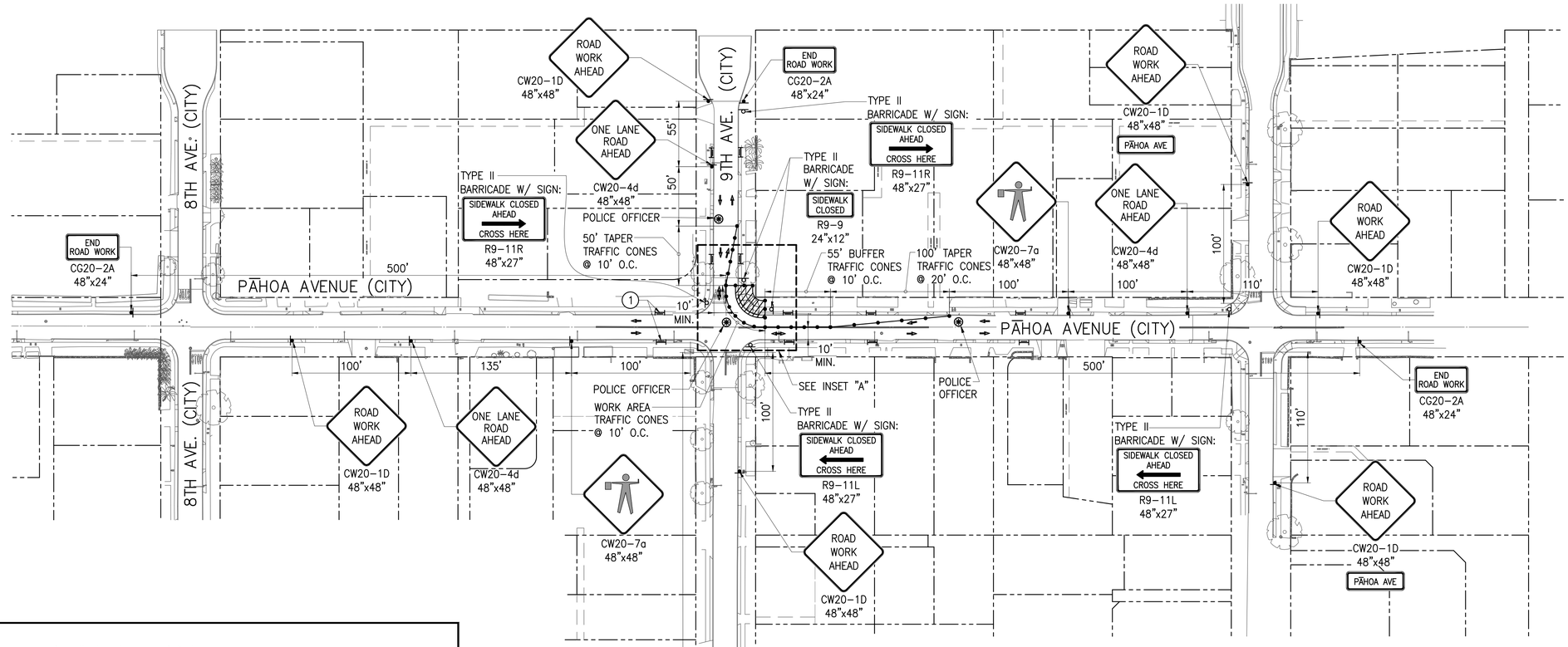
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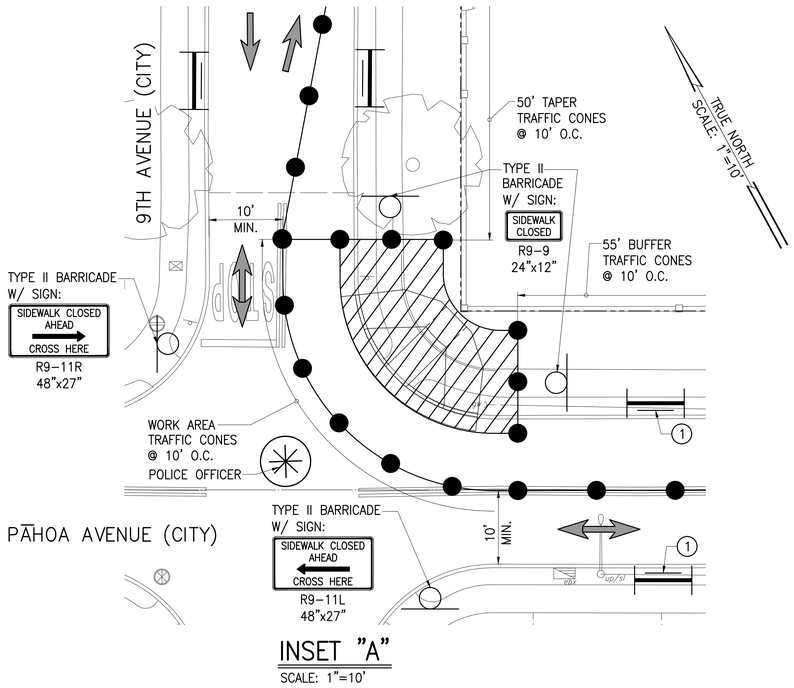
ATA AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS · SURVEYORS · HONOLULU, HAWAII

DESIGN	KH	APPROVED:	DRAWING NO. C101
DRAWN	MV		SHEET NO. 102
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\102 TRAFFIC CONTROL PLAN - 9 PAHOA AVE & 9TH AVE.DWG
JOB NO. 0-20-024
040125





INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 10
SCALE: 1"=50'

(1) ON TYPE III BARRICADE W/ SIGN: (TYP.)
R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:
- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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ENGINEERS SURVEYORS HONOLULU, HAWAII

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

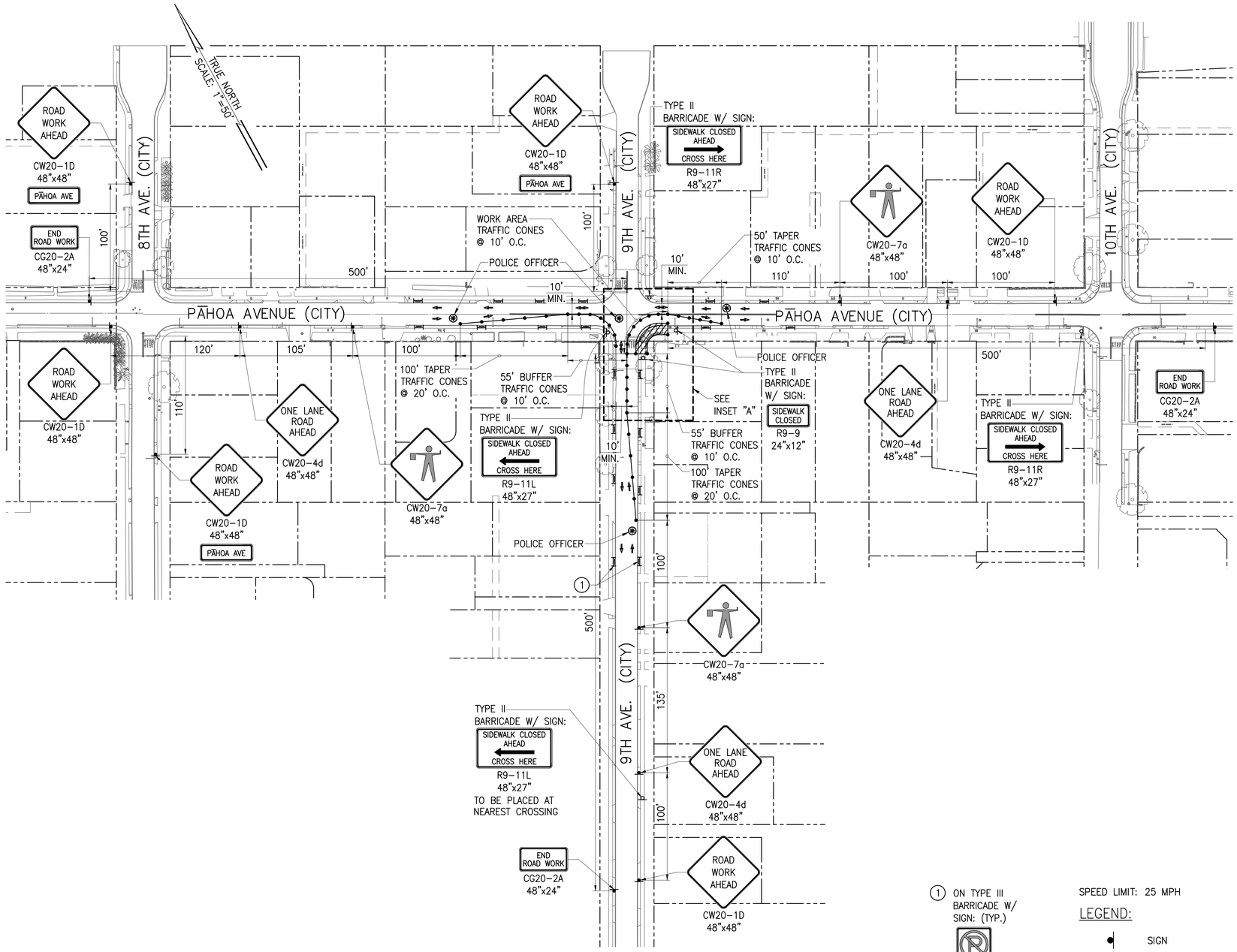
REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 10
PAHOA AVE & 9TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C102
DRAWN	MV		
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	SHEET NO. 103
DATE	3/17/25		OF 105 SHEETS
JOB NO.	XX–XX	FILE DRAW FOLDER	

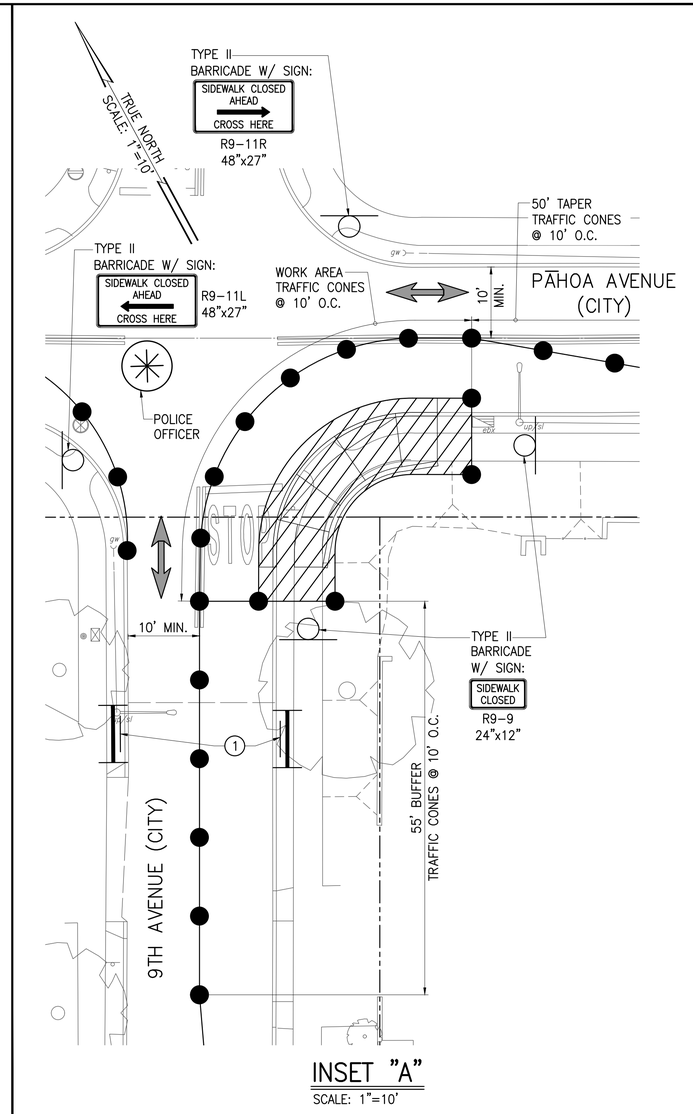
FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\103 TRAFFIC CONTROL PLAN - 10 PAHOA AVE & 9TH AVE.DWG
JOB NO. 0-20-024
040125



TRAFFIC CONTROL PLAN – 11

SCALE: 1"=50'



INSET "A"

SCALE: 1"=10'

① ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3
24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A

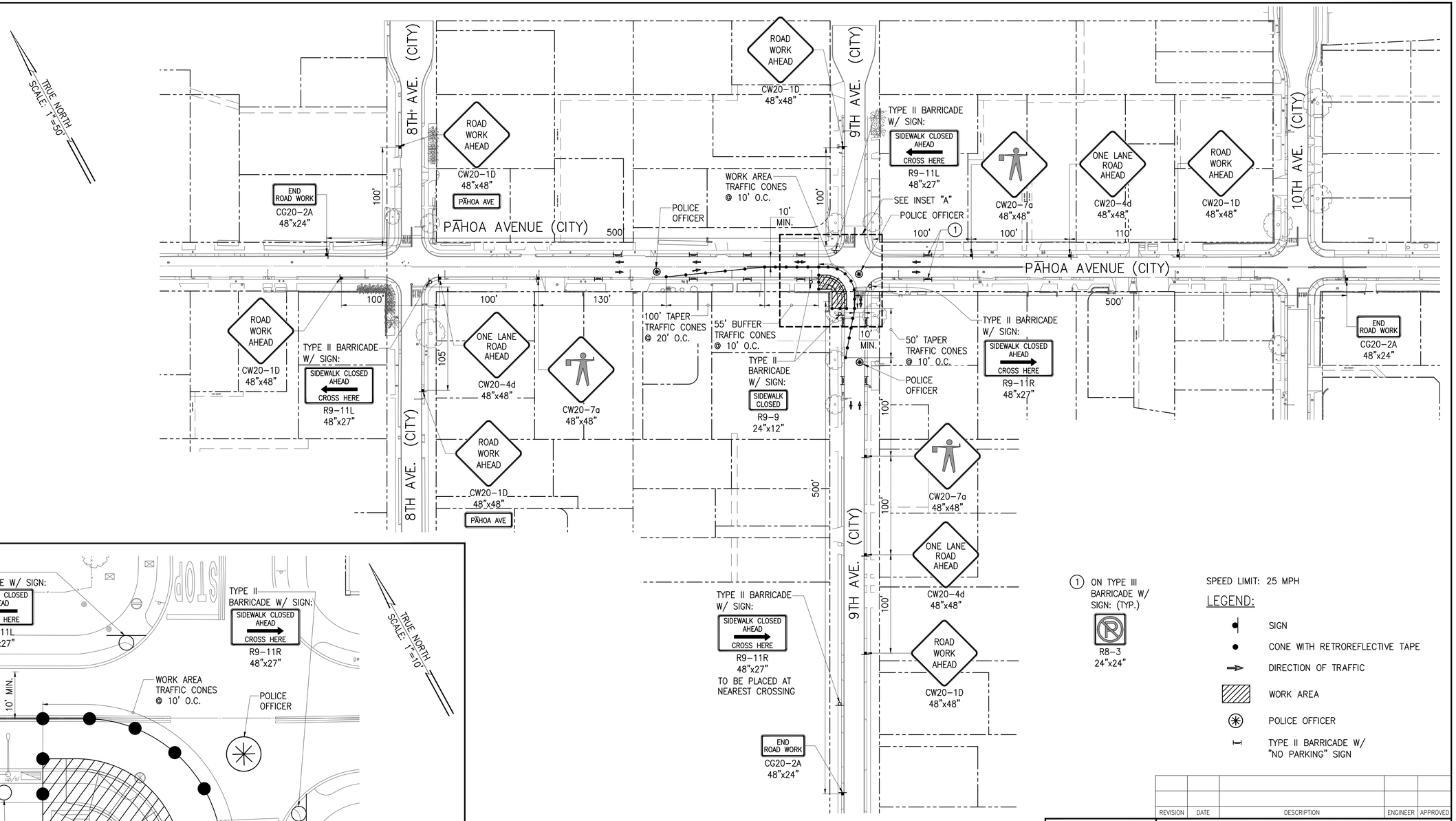
HONOLULU, O'AHU, HAWAI'I

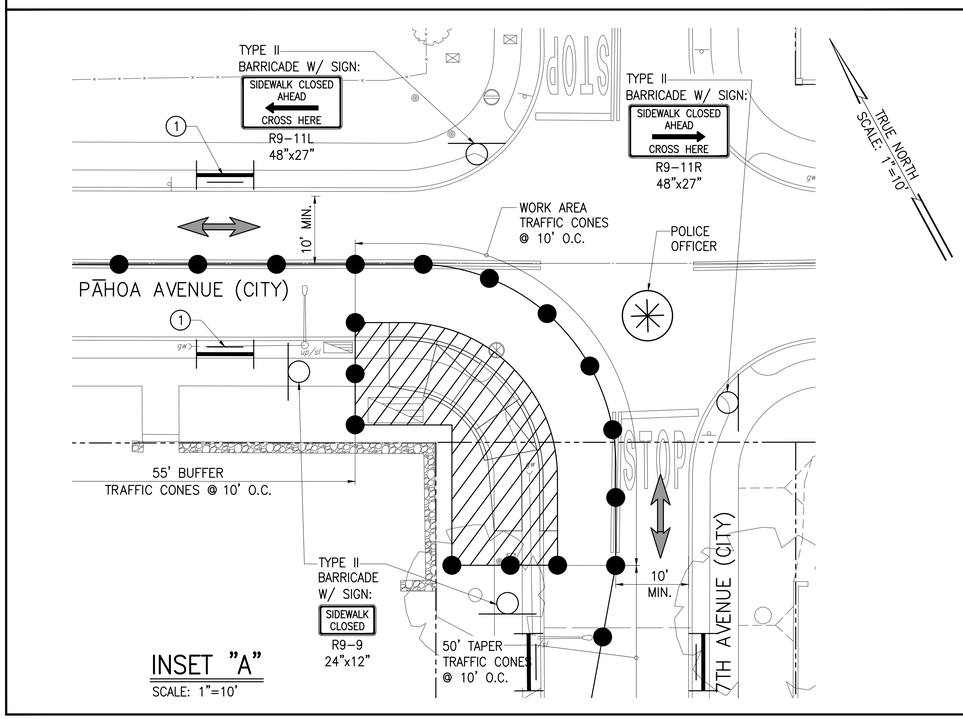
TRAFFIC CONTROL PLAN - 11
PAHOA AVE & 9TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C103
DRAWN	MV		SHEET NO. 104
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\104 TRAFFIC CONTROL PLAN – 11 PAHOA AVE & 9TH AVE.DWG
JOB NO. 0-20-024
040125





INSET "A"
SCALE: 1"=10'

TRAFFIC CONTROL PLAN – 12
SCALE: 1"=50'

(1) ON TYPE III BARRICADE W/ SIGN: (TYP.)

R8-3 24"x24"

SPEED LIMIT: 25 MPH

LEGEND:

- SIGN
- CONE WITH RETROREFLECTIVE TAPE
- DIRECTION OF TRAFFIC
- WORK AREA
- POLICE OFFICER
- TYPE II BARRICADE W/ "NO PARKING" SIGN

REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

TERRANCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.
EXP. 4/30/26

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CITY & COUNTY OF HONOLULU
CIVIL DIVISION

REHABILITATION OF LOCALIZED STREETS - PHASE 26A
HONOLULU, O'AHU, HAWAI'I

TRAFFIC CONTROL PLAN - 12
PAHOA AVE & 9TH AVE

DESIGN	KH	APPROVED:	DRAWING NO. C104
DRAWN	MV		SHEET NO. 105
CHECKED	TA	CHIEF, CIVIL DIVISION, DDC DATE	OF 105 SHEETS
DATE	3/17/25		
JOB NO.	XX–XX	FILE DRAW FOLDER	

FILE	POCKET	FOLDER	NO.

Z:\2022\22-843.10 (#20-024 PHASE 26A CURB RAMP DESIGNS_2B5 PRE-FINAL CURB RAMPS PS & E) NIKKI\DWG\105 TRAFFIC CONTROL PLAN - 12 PAHOA AVE & 9TH AVE.DWG
JOB NO. 0-20-024
040125