



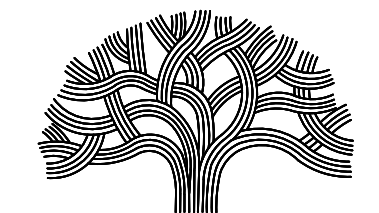
Know what's **below**.
Call before you dig.

THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AND THE CITY PUBLIC WORKS AGENCY AT (510)622-5741 AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING ANY EXCAVATION IN THE VICINITY OF UNDERGROUND FACILITIES.

THE CONTRACTOR SHALL MARK, COVER, PROTECT, AND REMOVE ANY MATERIAL PLACED OVER UTILITIES (ANY CITY OR PRIVATE UTILITY MANHOLE COVER/VALVE LID) PRIOR TO MILL/PAVE OPERATION. THE CONTRACTOR IS RESPONSIBLE FOR WORKING DIRECTLY WITH UTILITY OWNERS IN MAKING ADJUSTMENTS TO UTILITIES; LOWER TO MILL SURFACE (DRIVING SURFACE) IF OPEN TO TRAFFIC, AND RAISE TO FINISH GRADE.

PLANS FOR THE CONSTRUCTION OF LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E. 18TH STREET TO MACARTHUR BOULEVARD IN THE CITY OF OAKLAND, IN ALAMEDA COUNTY

TO BE SUPPLEMENTED BY CITY OF OAKLAND STANDARD DETAILS DATED JANUARY 2002,
 CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED 2023, AND THE LATEST REVISION
 OF THE CALIFORNIA MUTCD DATED MARCH 2014



CITY OF OAKLAND
 DEPARTMENT OF TRANSPORTATION
 250 FRANK H. OGAWA PLAZA
 SUITE 4314
 OAKLAND, CA 94612
 (510) 238-3437
 FAX (510) 238-7227

COMPLETE STREETS PAVING (DOT)



PRINCIPAL CIVIL ENGINEER

CONSTRUCTION MANAGEMENT

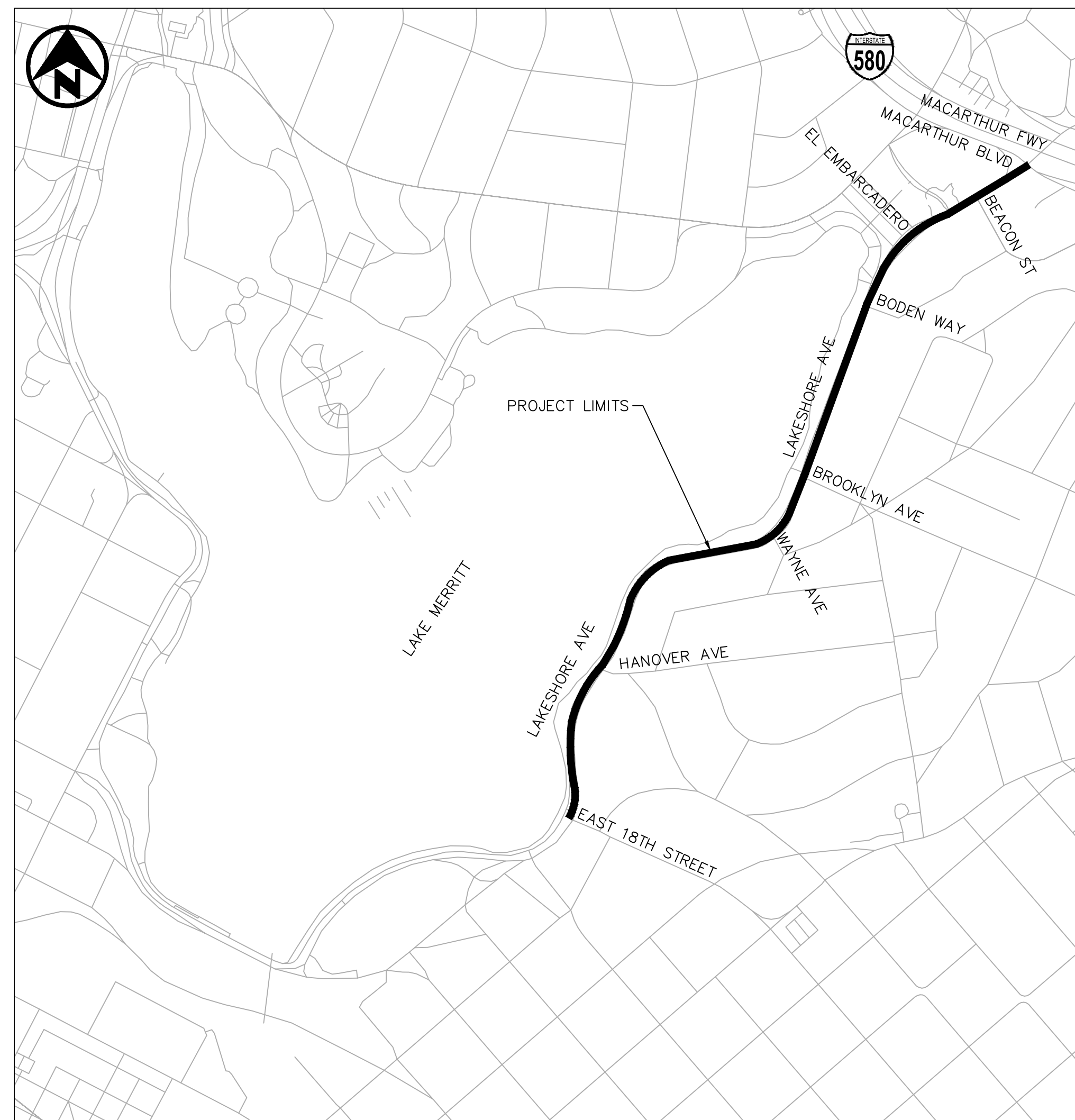
PRINCIPAL CIVIL ENGINEER

Kimley»Horn

1300 CLAY STREET, STE 900
 OAKLAND, CA 94612
 (510) 625-0712

SHEET INDEX

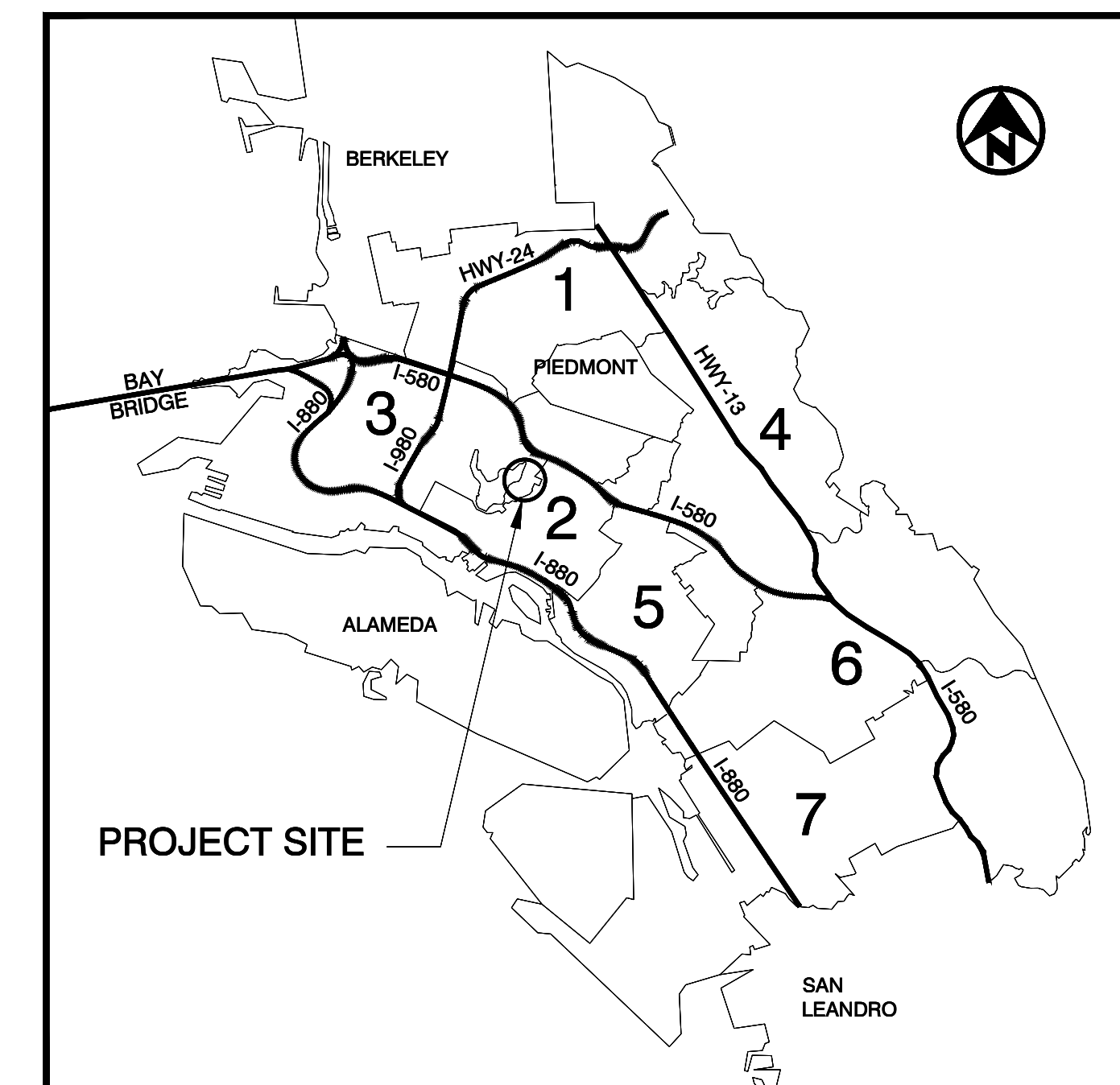
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2	GN-01	GENERAL NOTES
3	WP-01	WATER POLLUTION PREVENTION NOTES
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LOCATION MAP

NOT TO SCALE

CITY OF OAKLAND COUNCIL DISTRICT MAP



100% SUBMITTAL
 NOT FOR BID OR
 CONSTRUCTION

**ANY INCREASE IN DISTURBED AREA,
 OR CHANGE TO PAVING LIMITS, IS
 REQUIRED TO BE REVIEWED BY THE
 RESIDENT ENGINEER PRIOR TO
 DEMOLITION AND/OR CONSTRUCTION.**

MEGAN WIER
 OAKLAND DEPARTMENT OF TRANSPORTATION
 ASSISTANT DIRECTOR

CHECKED BY RYAN DOLE, P.E.
 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHICAL

No.	DATE	BY	REFERENCE

PROJECT NO.
1007299

SCALE: NTS
 DATE: 12/11/2024
 SHEET NO.
CV-01
 1 OF 83

DRAWING NAME: K:\OAK_BID\1007299\1007299.dwg - Lakeshore Ave Cycle Track\01_CADD\Plan Sheets\CV-01.dwg
 PLOTTED BY: Priya Pallivathical
 12/11/24

PROJECT NOTES	
1.	THE CONTRACTOR SHALL HAVE A CLASS A OR CLASS C12 CONTRACTOR'S LICENSE FOR THIS PROJECT. ALL WORK, MATERIAL, AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2015 EDITION, THE CITY OF OAKLAND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2002 EDITION, THE APPLICABLE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 2023 STANDARD SPECIFICATIONS AND STANDARD AND REVISED STANDARD PLANS, THE CURRENT CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE PROJECT SPECIAL PROVISIONS
2.	THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO RESIDENTS AND BUSINESSES AT LEAST 72-HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
3.	THE CONTRACTOR SHALL COORDINATE WITH BUILDING OWNERS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO AND IN FRONT OF EXISTING DRIVEWAYS.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK TO BE PERFORMED BY SUBCONTRACTORS INCLUDING TRAFFIC CONTROL, CONCRETE CONSTRUCTION, AND OTHER WORK.
5.	THE EXACT LOCATION OF ASPHALT AND CONCRETE CONFORM LINES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. SAWCUTTING OF CONCRETE SIDEWALK ALONG CONFORM LINES SHALL BE LOCATED TO THE NEAREST SCORE LINE. UNLESS OTHERWISE NOTED, ELEVATION OF EXISTING SURFACE AT CONFORM SHOWN IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO FINALIZE GEOMETRY AT CONFORM PRIOR TO CONSTRUCTION IN THE CONFORM AREAS.
6.	EXTENT OF UNDERGROUND BASEMENTS AND VAULTS HAVE BEEN VISUALLY INSPECTED BUT HAVE NOT BEEN VERIFIED THROUGH DESTRUCTIVE TESTING. CONTRACTOR TO EXAMINE EXISTING SITE CONDITIONS PRIOR TO BEGINNING DEMOLITION. ALL UNDERGROUND BASEMENTS SHALL BE PROTECTED DURING CONSTRUCTION.
7.	THE CONTRACTOR SHALL REPLACE THE PRE-EXISTING WIDTH OF CONCRETE GUTTERS WHEN REPLACING GUTTERS OR CONSTRUCTING CURB RAMPS. IF GUTTER WORK IS TO BE CONSTRUCTED AT A CORNER WHERE THERE ARE TWO DIFFERENT GUTTER WIDTHS, THE NEW GUTTER SHALL TRANSITION SMOOTHLY BETWEEN THE TWO DIFFERENT GUTTER WIDTHS.
8.	THE CONTRACTOR SHALL PROTECT ALL TREES. IF TREE ROOT PRUNING IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER THREE WORKING (3) DAYS IN ADVANCE OF TREE ROOT PRUNING SO THAT AN ARBORIST CAN BE SCHEDULED FOR A TREE STRESS TEST.
9.	AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, A LIST OF BEST MANAGEMENT PRACTICES TO PREVENT POTABLE WATER FROM ENTERING THE STORM DRAIN SYSTEM DURING ALL CONSTRUCTION OPERATIONS. ALL PROJECT STORM DRAIN INLETS SHALL BE BLOCKED WITH SILT SACK AND/OR GRAVEL BAGS DURING CONSTRUCTION.
10.	CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR REVIEW AND APPROVAL, 10 WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR TAKING NECESSARY PRECAUTIONS TO ENSURE PEDESTRIAN SAFETY, INCLUDING APPROPRIATE SIGNAGE AND BARRICADES.
11.	IN ACCORDANCE WITH SPECIFICATION SECTIONS 7-9, THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF CONSTRUCTION OPERATIONS. IN ADDITION, ANY EXISTING FACILITIES DAMAGED OR REMOVED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT SHALL BE MADE.
12.	THE CONTRACTOR'S ATTENTION IS CALLED TO VARIOUS UTILITIES AFFECTED BY THE PROPOSED PAVING AND CONCRETE WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COORDINATION AND SCHEDULING OF UTILITY COMPANIES FOR ALL THE UTILITY STRUCTURE ADJUSTMENTS TO THE PROPOSED PAVEMENT ELEVATION. THE LOCATION AND SIZE OF MAJOR UNDERGROUND FACILITIES AND UTILITIES SHOWN HEREON ARE SCHEMATIC IN NATURE, USING INFORMATION FURNISHED BY THE RESPECTIVE OWNER AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DATA WITH THE RESPECTIVE AGENCIES AND TAKING PROPER PRECAUTIONS TO PROTECT AND AVOID THE EXISTING FACILITIES AND UTILITIES. DAMAGE TO UTILITY LINES WILL BE REPAIRED BY THE RESPECTIVE AGENCY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL ADJUST TO FINISHED GRADE ALL AFFECTED MANHOLES, STREET MONUMENTS, WATER VALVES, GAS VALVES, UTILITY BOXES, CLEANOUT FRAMES, AND COVERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL PULL BOX CONTENTS AFFECTED BY THE WORK TO ITS ORIGINAL STATE.
13.	ALL EXISTING SIGNS ARE TO REMAIN UNLESS SPECIFICALLY DESIGNATED TO BE REMOVED, SALVAGED, OR RELOCATED. REMOVED SIGNS TO BE SALVAGED SHALL BE STORED AT THE CITY OF OAKLAND MAINTENANCE YARD LOCATED AT 7101 EDGEWATER DRIVE. THE CONTRACTOR SHALL RESTORE ALL THE EXISTING SIGNS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE FOR THE VARIOUS WORK ITEMS AND NO ADDITIONAL PAYMENT SHALL BE MADE. ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE MUNICIPAL SERVICE CENTER AT 7101 EDGEWATER DRIVE. CONTACT THE ELECTRICAL CONSTRUCTION AND MAINTENANCE PLANNER AT (510) 615-3685, 48 HOURS IN ADVANCE, PRIOR TO DELIVERY.
14.	ALL TRAFFIC STRIPING SHALL BE THERMOPLASTIC, AND ALL PAVEMENT MARKINGS SHALL BE WHITE THERMOPLASTIC, UNLESS NOTED OTHERWISE.
15.	EXISTING STRIPING AND PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED AND DISPOSED OF PER SECTION 15-2.02 (B&C) AND 15-2.03 OF THE STATE STANDARD SPECIFICATIONS.
16.	PEDESTRIAN, PUBLIC ACCESS, AND WHEELCHAIR ACCESS SHALL BE MAINTAINED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
17.	NO TRENCHES OR HOLES SHALL BE LEFT OPEN OVERNIGHT; USE STEEL PLATING OR HOT MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT.
18.	ALL REVISIONS TO THE PLANS MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY CITY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
19.	THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF PROJECT AS-BUILT DRAWINGS TO THE RESIDENT ENGINEER WITH THE FINAL PAYMENT REQUEST.

GENERAL NOTES	
1.	THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR 811 AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION AND REQUEST DELINEATION OF UNDERGROUND UTILITIES ON THE SURFACE OF THE STREET IN THE AREA TO BE EXCAVATED. NOTE THAT MARKINGS ARE ONLY VALID FOR FOURTEEN (14) DAYS. IF THE MOST RECENT REQUEST HAS ELAPSED THE 14-DAY PERIOD, THE CONTRACTOR NEEDS TO REQUEST USA TO RENEW THE MARKINGS.
2.	THE CONTRACTOR SHALL CALL THE CITY OF OAKLAND ELECTRICAL DEPARTMENT AT (510) 615-5438 AND THE OFFICE OF INFORMATION TECHNOLOGIES AT (510) 238-2996 AT LEAST FIVE WORKING DAYS PRIOR TO STARTING WORK FOR FIELD MARKING OF ALL CITY ELECTRICAL AND FIRE ALARM FACILITIES. REFER TO SPECIFICATION SECTION 7-9 FOR SPECIAL REQUIREMENTS REGARDING DAMAGE TO CITY ELECTRICAL FACILITIES DURING CONSTRUCTION.
3.	THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES AND SWEEP STREETS AS OFTEN AS NECESSARY DURING CONSTRUCTION AS REQUIRED BY THE CITY ENGINEER.
4.	ALL CONSTRUCTION STAKING FOR CURB, GUTTER, CURB RAMP, SIDEWALK, TRANSIT ISLAND, RAISED ISLANDS, STORM DRAIN INLETS, ELECTROLIERS, ECT. SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
5.	THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION UNLESS OTHERWISE SHOWN.
6.	THE CONTRACTOR SHALL NOTIFY AC TRANSIT, WASTE MANAGEMENT, AND EMERGENCY SERVICES OF THE CONSTRUCTION SCHEDULE TO ALLOW COORDINATION. AC TRANSIT SHALL BE NOTIFIED AT LEAST 2 WEEKS PRIOR TO THE START OF WORK AT LOCATIONS THAT INCLUDE EXISTING OR PROPOSED BUS STOP LOCATIONS.
7.	CONTRACTOR SHALL PREPARE AND SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER THE SPECIAL PROVISIONS. SEE WP-01 FOR ADDITIONAL INFORMATION. <u>SURVEY MONUMENT.</u>
8.	THIS PROJECT HAS SEVERAL MONUMENTS AS SHOWN IN THE SURVEY CONTROL SHEETS. ALTHOUGH UNEXPECTED AT THIS TIME, ADDITIONAL MONUMENTS MAY BE PRESENT OR UNCOVERED AND SHALL BE CONSIDERED TO BE INCLUDED IN THE PROJECT REQUIREMENTS FOR MONUMENTS. THE CITY SURVEY OFFICE HAS PREPARED A CD OF KNOWN BENCHMARKS AND MONUMENTS IN ADOBE ACROBAT PDF FORMAT FOR USE BY THE CONTRACTOR. THE CONTRACTOR IS HEREBY ADVISED TO BECOME FAMILIAR WITH SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. THIS SECTION DEALS WITH THE REQUIREMENTS IMPOSED IN MONUMENT PRESERVATION AND PROTECTION AND THAT ARE PARTIALLY ASSIGNED TO THE CONTRACTOR BY VIRTUE OF THIS PROJECT'S SPECIFICATIONS. THE CONTRACTOR'S CALIFORNIA-LICENSED SURVEYOR SHALL REFERENCE THE LOCATION AND FILE A CORNER RECORD WITH THE COUNTY SURVEYOR OF ALAMEDA FOR ALL KNOWN PROJECT MONUMENTS BEFORE DOING ANY CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE OFFICIAL COPIES OF THE COUNTY'S CORNER RECORDS TO THE CITY SURVEYOR BEFORE DOING ANY CONSTRUCTION WORK ON PROJECT STREETS. THE CONTRACTOR SHALL NOTE THAT IT CAN TAKE ALAMEDA COUNTY RECORDS OFFICE UP TO FOUR WEEKS TO ACCEPT AND FILE CORNER RECORDS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PAID FOR BID ITEM <u>PRE & POST CONSTRUCTION MONUMENT VERIFICATION.</u> IF IT IS NECESSARY TO REMOVE OR REPLACE A CITY MONUMENT IN CONJUNCTION WITH THE WORK ASSOCIATED WITH THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE TWO WEEKS NOTIFICATION TO THE OFFICE OF THE CITY SURVEYOR AND, UNDER THE DIRECTION AND SUPERVISION OF THE CITY SURVEYOR, THE MONUMENT WILL EITHER BE TEMPORARILY REMOVED AND LATER REPLACED OR IT WILL BE RELOCATED TO ANOTHER LOCATION. THE UNIT PRICE FOR EACH BID ITEM <u>RESET MONUMENT</u> SHALL INCLUDE FULL COMPENSATION FOR ALL LABOR, MATERIALS, SURVEYING, AND FILING COSTS AS REQUIRED BY LAW FOR RESETTLEMENT/RELOCATING A MONUMENT. IN THE EVENT THAT RAISING A MONUMENT CREATES A WELL DEPTH GREATER THAN 15" FROM MONUMENT TO SURFACE, THE MONUMENT SHALL BE RESET AND ALSO PAID FOR BY BID ITEM <u>RESET MONUMENT</u> . IF THE CONTRACTOR SHALL REMOVE, DESTROY, OR DAMAGE ANY CITY MONUMENT WITHOUT PRIOR NOTIFICATION TO THE CITY SURVEYOR, THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE SAID MONUMENT. IN THE EVENT THAT THE MONUMENT CANNOT BE REPLACED IN ITS ORIGINAL LOCATION, THE CONTRACTOR SHALL REPLACE IT IN AN ALTERNATE LOCATION AS DIRECTED BY THE CITY SURVEYOR OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ABSORB ALL COSTS TO RESTORE OR REPLACE SUCH MONUMENTS. SUCH WORK SHALL INCLUDE ALL MATERIALS, LABOR, SURVEYING AND FILING COSTS AS MAY BE REQUIRED BY THE LAW. ALL MONUMENTS SHALL BE RAISED OR LOWERED TO THE FINISH GRADE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SHOW THE LOCATION OF ALL CITY MONUMENTS ON THE SUBMITTED STRIPING PLANS.
9.	THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN AT ALL TIMES TEMPORARY FENCES, BARRICADES, LIGHTS, SIGNS, AND OTHER DEVICES NECESSARY TO PREVENT ACCIDENTS, DAMAGES, OR INJURIES TO THE PUBLIC.
10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING DRAINAGE PATH WITHIN THE LIMITS OF WORK.
11.	THE CONTRACTOR SHALL NOT ALLOW DEBRIS OR SILT-LADEN WATER GENERATED BY CONSTRUCTION ACTIVITIES OR SAWCUTTING TO FLOW INTO THE PUBLIC STORM DRAIN SYSTEM, NOR BE DEPOSITED INTO THE PUBLIC RIGHT OF WAY, AS SPECIFIED IN SECTION 7-8.6 OF THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SILT MATERIAL FROM THE JOB SITE. FULL COMPENSATION FOR PERFORMING THIS WORK SHALL BE INCLUDED IN THE PRICE PAID FOR THE VARIOUS ITEMS OF WORK, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
12.	SAWCUTTING SHALL BE TO A MINIMUM DEPTH OF 2" FOR ASPHALT CONCRETE PAVING AND FULL DEPTH FOR CONCRETE PAVING. NO STOMPING WILL BE PERMITTED.
13.	REMOVAL AND REPLACEMENT OF CONCRETE CURB AND GUTTER SHALL EXTEND TO THE NEAREST WEAKENED PLANE JOINTS. SIDEWALK REMOVAL AND REPLACEMENT SHALL EXTEND TO THE NEAREST SCORE MARK.
14.	THE CONTRACTOR SHALL PROVIDE A PROJECT SCHEDULE FOR THE CITY'S REVIEW AND APPROVAL. <u>MONUMENT REGULATIONS</u>
15.	THE CONTRACTOR'S ATTENTION IS DIRECTED SPECIFICALLY TO SECTION 8771 OF THE STATE'S BUSINESS PROFESSIONS CODE REQUIRING THE PRESERVATION AND PROTECTION OF MONUMENTS. THIS SECTION PROVIDES FOR SPECIFIC REQUIREMENTS BEFORE WORK CAN BE DONE AND THOSE REQUIREMENTS ARE OFTEN TIME CONSUMING. THE CITY OF OAKLAND WILL PROVIDE SUCH MAPPING AND FLING SERVICES AS ARE NECESSARY UPON TWO WORKING DAYS NOTICE FROM THE CONTRACTOR (DIRECTLY TO THE CITY SURVEYOR WITH A COPY TO THE INSPECTOR). IN COMPLIANCE WITH THIS LAW, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ALL MONUMENTS WITHIN WORK AREAS SHOWN ON THE INDEX SHEET AND PLANS.
16.	NO MONUMENTS MAY BE DISTURBED, NOR WORK PERFORMED WITHIN A 25 FOOT RADIUS OF SUCH MONUMENT UNTIL THE CITY SURVEYOR HAS MADE THE NECESSARY MEASUREMENTS AND ISSUED A WRITTEN AUTHORIZATION TO THE INSPECTOR.
17.	SHOULD THE CONTRACTOR, PRIOR TO SUCH AUTHORIZATION, DISTURB, REMOVE, OR DESTROY ANY MONUMENT, THE CITY HAS A FLAT CHARGE OF \$5,000 PER UNIT WHICH WILL BE DEDUCTED FROM THE NEXT PROGRESS (OR FINAL) PAYMENT. THE CONTRACTOR SHOULD NOTE THAT, PER 8771 B&P, THE CITY HAS THE RIGHT TO WITHHOLD THE ISSUANCE OF A NOTICE OF COMPLETION UNTIL ALL OUTSTANDING ISSUES RELATING TO THE MONUMENTS ARE RESOLVED.
18.	IF ANY MONUMENT IS LAWFULLY REMOVED OR DESTROYED, THE CONTRACTOR SHALL SALVAGE THE FRAME, CASTING, AND MONUMENT DISH AND DELIVER THEM TO THE CITY SURVEYOR. IF THESE ITEMS ARE NOT SALVAGED/OR DELIVERED, THE CONTRACTOR SHALL REPLACE THE LOST UNITS, IN KIND, DELIVERED TO THE CITY SURVEYOR.
19.	NOT ALL MONUMENTS MAY BE SHOWN ON THE PLAN SHEETS. PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO IDENTIFY AND MARK ALL MONUMENTS WITH RED PAINT OR, IF FOUND IN UNPAVED AREA, WITH A 3 FOOT LATH FLAGGED AND PAINTED IN RED. PLEASE NOTE THAT STATE LAW MAKES NO DISTINCTION BETWEEN CITY MONUMENTS AND THOSE OF OTHER AGENCIES OR INDIVIDUALS.
20.	IN ADDITION TO MONUMENTS, THE CITY ALSO HAS VERTICAL MONUMENTATION (BENCHMARKS) WHICH ARE LOCATED ON THE PLAN SHEETS. IF A BENCHMARK IS TO BE DESTROYED, THE CITY WILL REQUIRE TWO WORKING DAYS ADVANCE NOTICE TO PRESERVE THE INFORMATION. THE CONTRACTOR, AT NO ADDITIONAL COST TO THE CITY, SHALL REPLACE THE MONUMENT IN A SUITABLE LOCATION TO BE DETERMINED BY THE CITY SURVEYOR. THE CITY WILL PROVIDE THE NECESSARY BRONZE DISK.
21.	THE CITY MAY, AT ITS SOLE DISCRETION, ELECT TO INSTALL A BENCHMARK TO BE SET IN A SIDEWALK OR CURB WHERE THERE WAS NONE BEFORE. THE CITY WILL PROVIDE A BRONZE DISK AND SPECIFY THE LOCATION FOR THE DISK TO BE REPLACED WHEN THE CONCRETE IS PLACED, AND DRESSED TO FINISH ALONG WITH THE CONCRETE SURFACE. THIS SHALL BE CONSIDERED AS PART OF THE COST OF THE CONCRETE REPLACEMENT AND THERE SHALL BE NO ADDITIONAL CHARGE TO THE CITY.
22.	SEE CITY OF OAKLAND STANDARD DETAIL S-9 FOR MONUMENT AND BENCHMARK DETAIL.
23.	THE CONTRACTOR SHALL PROVIDE OFFICIAL COPIES OF THE COUNTY CORNER RECORDS TO THE CITY SURVEYOR BEFORE DOING ANY CONSTRUCTION WORK ON PROJECT STREETS. CONTRACTOR SHALL FILE CORNER RECORDS TO THE CITY IN BOTH HARD COPY AS WELL AS SINGLE ADOBE FILE FOR EACH CORNER RECORD.

ABBREVIATIONS	
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
AT&T	AT&T TELECOMMUNICATION
AVE	AVENUE
BLVD	BOULEVARD
BOW	BACK OF WALK
BR	BASE REPAIR
CB	CATCH BASIN
C&G	CURB AND GUTTER
/CL	CENTERLINE
CO	CLEANOUT
CONT	CONTINUE
CR	CURB RAMP
CTV	CABLE TELEVISION LINE
DI	DRAINAGE INLET
DWG	DRAWING
E	ELECTRIC LINE/EAST/EASTINGS
ELEC	ELECTRICAL
EX	EXISTING
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT
EL	ELEVATION
EP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVEL WAY
F/C	FACE OF CURB
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FT	FEET
FWY	FREEWAY
G	GAS LINE
GB	GRADE BREAK
GM	GAS METER
GV	GAS VALVE
IRR	IRRIGATION
JR	JOINT POLE
JP	JUNCTION
LAT	LATERAL
L	LENGTH
LF	LINEAR FEET
LG	LIP OF GUTTER
MH	MAINTENANCE HOLE
MAX	MAXIMUM
MIN	MINIMUM
MON	CITY SURVEY MONUMENT
(N)	NEW
N	NORTH/NOTHING
N/A	NOT APPLICABLE
NB	NORTH BOUND
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
PCC	PORTLAND CEMENT CONCRETE/POINT OF COMPOUND CURVATURE
PG&E	PACIFIC GAS & ELECTRIC
PRC	POINT OF REVERSE CURVATURE
R/W	RIGHT-OF-WAY
S	SLOPE/SOUTH
SB	SOUTH BOUND
SD	STORM DRAIN
SF	SQUARE FEET
SS	SANITARY SEWER
SPECS	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2015 EDITION
SP	SPECIAL PROVISIONS
ST	STREET
STA	STATION
SW	SIDEWALK
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MANHOLE
T/TEL	TELEPHONE LINE
TI	TECHNICAL INFESABILITY
TC	TOP OF CURB
TS	TRAFFIC SIGNAL
TP	TELEPHONE POLE
TV	TELEVISION
TYP.	TYPICAL
UG	UNDERGROUND
VAR	VARIABLE/VARIES
W	WEST
WM	WATER METER
WV	WATER VALVE
WY	WAY

LEGEND	
⌘	FIRE HYDRANT
⊙	EXISTING MONUMENT OR BENCHMARK
⊖	EX WATER VALVE
⊕	EX MAINTENANCE HOLE STRUCTURE. UTILITY AS NOTED ON PLANS, WHEN KNOWN.
⊗	EX PG&E GAS VALVE
≡	EX DRAINAGE INLET STRUCTURE
⊖	UTILITY POLE

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

KimleyHorn
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Oakland, California 94612 Fax No. (916)608-0885

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

GENERAL NOTES

PROJECT NO. **1007299**

SCALE: N/A SHEET NO. GN-01
2 OF 83

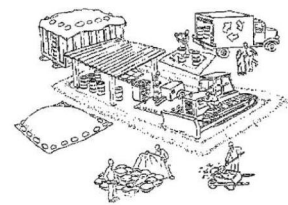
DATE: 12/11/2024

DRAWING NAME: K:\OAK_BDW\100709299- Lakeshore Ave Cycle Tracks\04_CADD\Plan_Sheets\GN-01_WP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

Pollution Prevention - It's Part of the Plan

Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with City of Oakland requirements.



Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water.
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Repair or replace leaking dumpsters promptly.
- ✓ Check dumpsters regularly for leaks and to make sure they are not overfilled.
- ✓ Comply with City of Oakland Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- ✓ Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- ✓ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain.
- ✓ Never wash spilled material into a gutter, street, storm drain, or creek.
- ✓ Dispose of all containment and cleanup materials properly.
- ✓ Report any hazardous materials spills immediately! Dial 911 or City of Oakland, Public Works Agency hotline at (510) 615-5566.

Construction Entrances and Perimeter

- ✓ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ✓ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

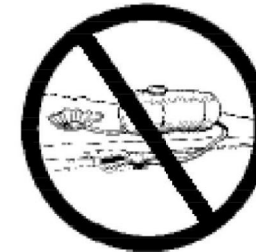
Vehicle and equipment maintenance & cleaning

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Dewatering operations

- ✓ Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



Earthwork & contaminated soils

- ✓ Keep excavated soil on the site where it will not collect in the street.
- ✓ Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Earth moving activities shall be approved by the City Resident Engineer in the Field.
- ✓ Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.

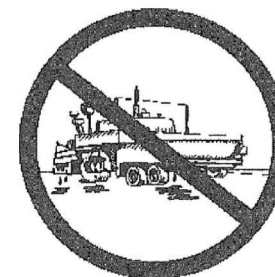
- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of contaminated soil according to their instructions.

Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work

- ✓ Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen beers.
- ✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.



Concrete, grout, and mortar storage & waste disposal

- ✓ Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.



- ✓ Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible.
- ✓ Dispose of oil-based paint sludge and unusable thinner as hazardous waste.



Landscape Materials

- ✓ Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- ✓ Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

Storm drain polluters may be liable for fines of \$10,000 or more per day!

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CONSTRUCTION

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON
ANSI B (11" X 17") SHEETS. REFER TO
GRAPHIC SCALE FOR SHEETS OF
DIFFERENT SIZES.

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DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

**WATER POLLUTION
PREVENTION**

PROJECT NO.
1007299

SCALE:
N/A

DATE: 12/11/2024

SHEET NO.
WP-01
3 OF **83**

SURVEYOR'S STATEMENT:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT.

I HEREBY FURTHER STATE THAT TO THE BEST OF MY KNOWLEDGE ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN COMPLIED WITH.

I HEREBY ACKNOWLEDGE THAT THIS SURVEY SHALL BE A PUBLIC RECORD AND MAY BE AVAILABLE FOR INSPECTION AND DISTRIBUTION TO THE GENERAL PUBLIC.

ALL HORIZONTAL COORDINATES AND LOCATIONS SHOWN ARE BASED ON THE NAD83 (CA ZONE 3) COORDINATE SYSTEM AND WERE DERIVED FROM GPS CONTROL OBSERVATIONS.

ALL GRADES AND ELEVATIONS SHOWN ARE BASED UPON THE OAKLAND CITY DATUM. BENCHMARK "61/1/9" LOCATED AT THE INTERSECTION OF LAKESHORE AND BODEN WAY, ELEVATION 4.744' WAS HELD.

DATED: 08/02/2024

Joseph Brajkovich

JOSEPH M BRAJKOVICH, PLS 5254

PUBLIC ADVISORY:

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Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
1	2118996.2296	6054856.5885	3.82	CUT-X
3	2118808.3011	6054791.8281	3.53	CUT-X
4	2118809.7282	6054871.2324	5.29	CUT-X
5	2118733.3436	6054861.4628	5.40	CUT-X
6	2119077.0940	6054784.3544	5.52	CUT-X
7	2119148.8486	6054779.0629	5.67	CUT-X
8	2119077.1979	6054857.0538	4.78	CUT-X
9	2119292.6155	6054812.4467	5.55	CUT-X
10	2119412.1150	6054879.9875	4.93	CUT-X
11	2119487.1704	6054931.9146	3.43	CUT-X
12	2119452.4385	6055031.0632	5.25	CUT-X
13	2119359.1295	6054943.2891	5.76	CUT-X
14	2119351.4250	6054936.2182	5.82	FND-NAIL-TAG-LS4520
15	2119343.2853	6054930.7274	5.01	MON-PIN-1-8-IN
16	2119271.6106	6054892.5096	6.21	CUT-X
17	2119479.5171	6055024.5005	3.55	MON-PIN
18	2119575.5647	6054987.9502	4.15	CUT-X
19	2119698.1007	6055038.6217	4.73	CUT-X
20	2119776.5902	6055076.9764	5.63	CUT-X
21	2119666.8487	6055109.4568	4.62	CUT-X

Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
22	2119616.4097	6055095.0472	4.07	MON-PIN
23	2119917.4649	6055136.4951	5.18	CUT-X
24	2119955.0473	6055173.4909	5.03	CUT-X
25	2120015.4241	6055295.2546	6.33	CUT-X
26	2119942.3894	6055332.9620	4.22	MON-PIN
27	2120046.9729	6055464.7782	5.33	CUT-X
28	2120072.4246	6055606.4629	4.17	CUT-X
29	2119996.0488	6055634.9838	5.17	CUT-X
30	2119962.5742	6055436.6223	5.15	CUT-X
31	2120155.7641	6055786.8128	3.77	CUT-X
32	2120072.7165	6055755.5667	6.22	CUT-X
33	2120046.4552	6055796.2065	5.67	CUT-X
34	2120085.2368	6055825.1900	5.18	MON-PIN
35	2120317.1118	6055885.4093	4.14	CUT-X
36	2120413.7008	6055909.7798	4.00	CUT-X
37	2120459.5146	6055937.8882	4.18	CUT-X
38	2120528.7188	6055962.8598	4.32	CUT-X
39	2120589.7813	6055985.5439	4.25	CUT-X
40	2120412.4308	6056007.3140	5.13	CUT-X
41	2120299.5150	6055964.1210	5.00	CUT-X

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DESIGNED BY: JAMES HOUSTON, PLS
DRAWN BY: JAMES HOUSTON, PLS

Joseph Brajkovich



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO EL EMBARCADERO**

No.	DATE	BY	REFERENCE

SURVEY CONTROL

PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
SC-01
4 OF 79

DATE: 08/02/2024

PROJECT TITLE: 08-04-24 11:04:24 AM PLOTTED BY: houst

Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
42	2120256.4300	6055948.5706	4.25	MON 1/8 PIN W/WASHER-CITY ENG
43	2120228.4359	6055932.2201	4.87	CUT-X
44	2120681.3560	6056019.3819	4.45	CUT-X
45	2120779.2164	6056055.3477	4.29	CUT-X
46	2120835.3248	6056076.2245	4.13	CUT-X
47	2120893.8633	6056097.7720	4.16	CUT-X
48	2120787.4734	6056144.4449	5.49	CUT-X
49	2120704.9497	6056115.1743	5.46	CUT-X
50	2120548.0195	6056050.1321	5.01	CUT-X
51	2120971.3296	6056126.5031	4.08	CUT-X
52	2121043.6620	6056153.2081	4.41	CUT-X
53	2121112.1034	6056178.5264	4.65	CUT-X
54	2121180.4291	6056203.8939	4.76	CUT-X
55	2121235.5044	6056223.9706	4.62	CUT-X
56	2121308.6171	6056251.0142	4.64	CUT-X
57	2121396.6959	6056367.4925	4.12	MON-PIN
58	2121368.7157	6056275.8813	4.86	CUT-X
59	2121423.8433	6056299.5142	4.99	CUT-X
60	2121478.1025	6056322.1506	5.03	CUT-X
61	2121531.1416	6056350.4649	5.10	CUT-X

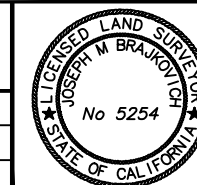

Control Point Table				
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62	2121257.1681	6056316.9369	5.54	CUT-X
63	2121155.4625	6056278.0187	5.59	CUT-X
64	2121239.6701	6056309.4612	4.74	MON-1-8-PIN
65	2121584.6926	6056397.0947	5.49	CUT-X
66	2121627.4317	6056429.9504	5.35	CUT-X
67	2121598.7348	6056477.2338	5.19	CUT-X
68	2121681.4963	6056476.8714	5.20	CUT-X
69	2121680.5188	6056534.6623	5.01	CUT-X
70	2121545.4234	6056510.2578	5.66	CUT-X
71	2121583.0139	6056548.3920	4.37	MON-PIN
72	2121787.9356	6056740.1798	5.17	CUT-X
73	2121820.3586	6056797.4944	4.87	CUT-X
74	2121854.6347	6056857.1446	4.89	CUT-X
75	2118915.8096	6054876.1206	3.30	MON-1-8-PIN
76	2118700.6177	6054935.0643	5.83	CUT-X
77	2118686.4299	6054991.5212	5.50	CUT-X
78	2121993.9604	6056879.3880	6.90	CUT-X
79	2121981.2247	6056908.6426	6.71	CUT-X
80	2121940.2449	6056936.1429	6.25	CUT-X
81	2121958.9019	6056974.1713	6.96	CUT-X

Control Point Table				
Point #	Northing	Easting	Elevation	Raw Description
82	2121904.5062	6056923.9590	5.76	CUT-X
83	2121732.7172	6056847.6908	5.68	CUT-X
84	2121713.1833	6056771.4474	5.24	CUT-X
671	2119243.5791	6054881.5084	6.18	FND-TAG-4520
1677	2119797.3581	6055160.5326	4.15	MON-PIN
2518	2119996.1415	6055637.0108	4.32	MON-PIN

Joseph Brajkovich

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DESIGNED BY	JAMES HOUSTON, PLS
DRAWN BY	JAMES HOUSTON, PLS

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO EL EMBARCADERO**

No.	DATE	BY	REFERENCE

SURVEY CONTROL

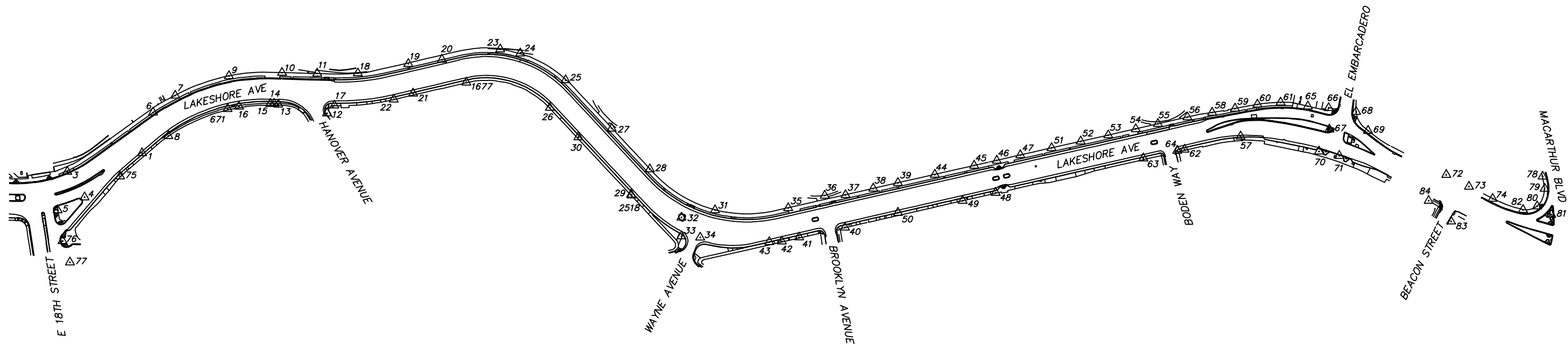
PROJECT NO.
1007299

SCALE:
 NO SCALE

SHEET NO.
SC-02
 5 OF 79

DATE: 08/02/2024

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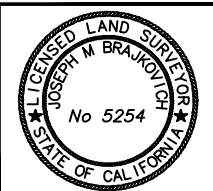


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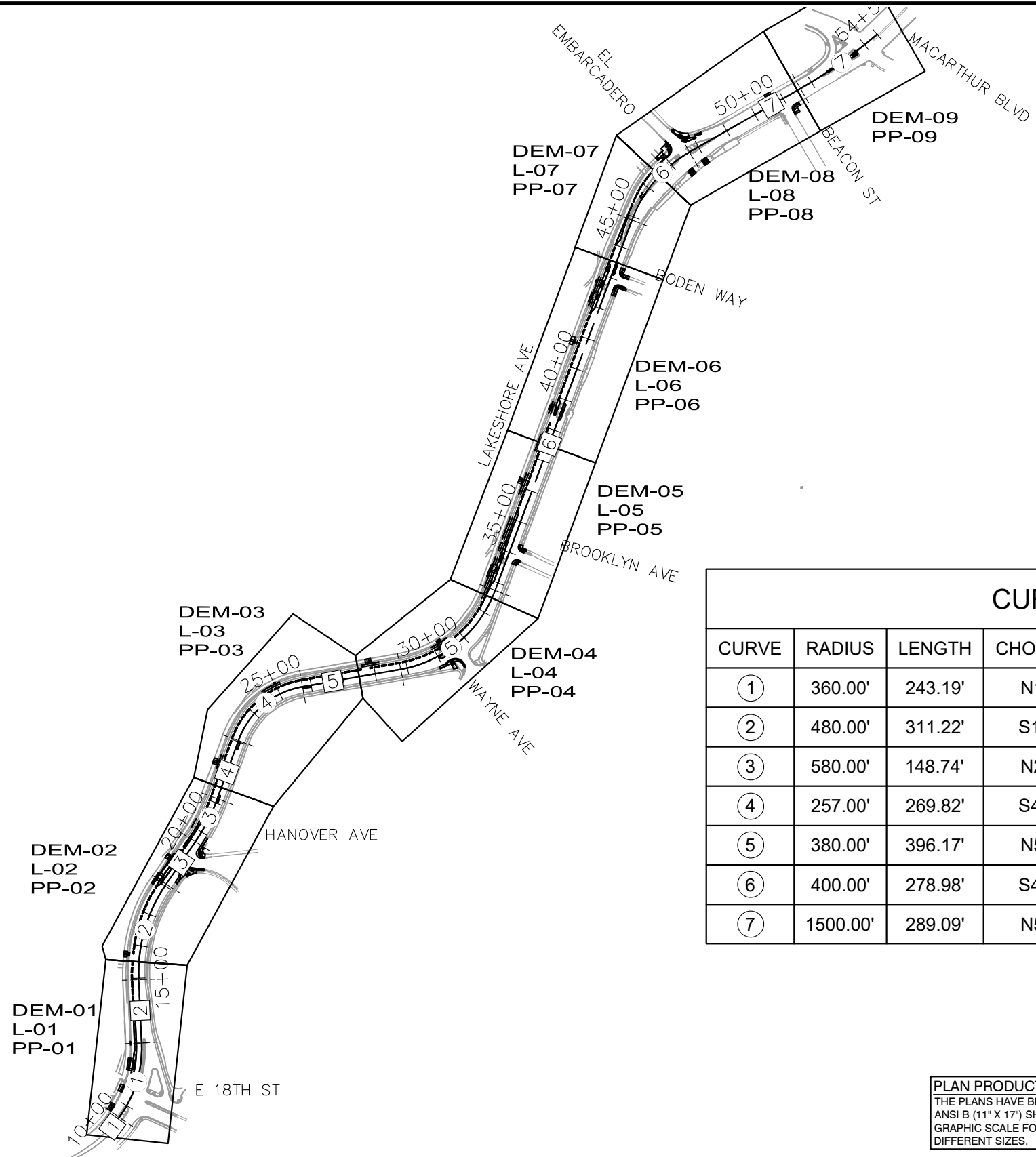
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO EL EMBARCADERO**

No.	DATE	BY	REFERENCE

SURVEY CONTROL	PROJECT NO. 1007299	
	SCALE: NO SCALE	SHEET NO. SC-03 6 OF 79
DATE: 08/02/2024		

PROJECT TITLE: _____
 DRAWING NAME: C:\Users\jhoust1\OneDrive\Desktop\24-097-SEMT-CONTROL_072924.dwg
 PLOT DATE: 08-04-24
 PLOTTED BY: jhoust



LINE TABLE		
LINE	LENGTH	BEARING
①	57.52	N36°05'36.70"E
②	194.33	N2°36'38.78"W
③	158.35	N34°32'19.62"E
④	189.99	N19°50'43.09"E
⑤	306.17	N79°59'53.66"E
⑥	1213.81	N20°15'53.17"E
⑦	392.96	N60°13'34.89"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
①	360.00'	243.19'	N16°44'29"E	238.59'	38°42'15"	126.44'
②	480.00'	311.22'	S15°57'50"W	305.80'	37°08'58"	161.30'
③	580.00'	148.74'	N27°11'31"E	148.33'	14°41'37"	74.78'
④	257.00'	269.82'	S49°55'18"W	257.59'	60°09'11"	148.84'
⑤	380.00'	396.17'	N50°07'53"E	378.47'	59°44'00"	218.22'
⑥	400.00'	278.98'	S40°14'44"W	273.36'	39°57'42"	145.44'
⑦	1500.00'	289.09'	N54°42'18"E	288.65'	11°02'33"	145.00'



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

KEY MAP

PROJECT NO.
1007299

SCALE:
NTS

SHEET NO.
K-01
7 OF 83

DATE: 12/03/2024

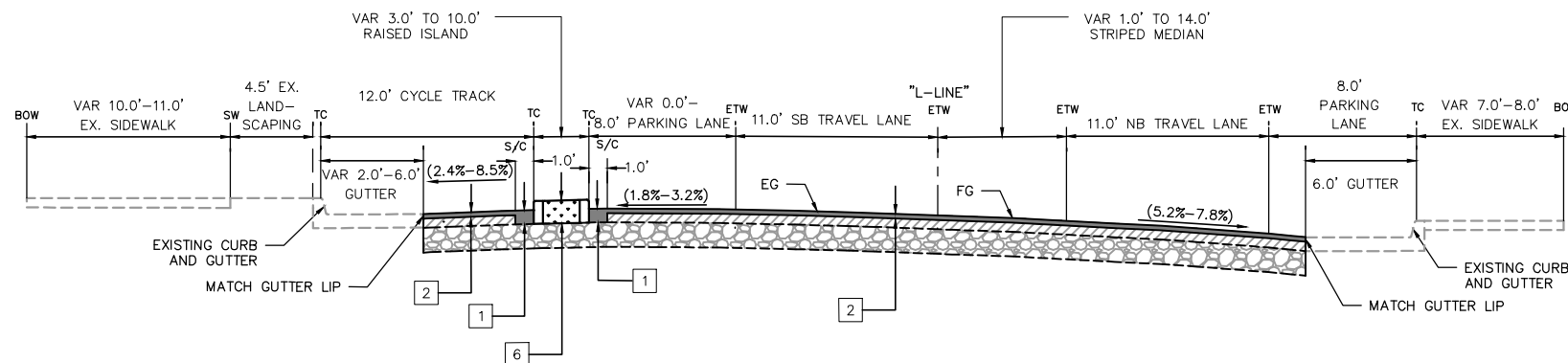
DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Trace\04_CADD\Plan_Sheets\K-1.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal

NOTES:

- EXISTING PAVEMENT SECTION VARIES ALONG LAKESHORE AVENUE PER THE GEOTECHNICAL REPORT PREPARED BY ALL EARTH GEOTECHNICAL ENGINEERING INC., DATED MAY 20, 2024. SEE PAVING PLANS FOR APPROXIMATE CORING AND BORING LOCATIONS AND A SUMMARY OF EXISTING PAVEMENT SECTIONS.
- SEE PAVING PLANS FOR EXACT LIMITS OF PAVING.
- FOR SAWCUT LIMITS, SEE DEMOLITION PLANS.
- CONTRACTOR SHALL SAWCUT TO A NEAT LINE.
- FOR LIMITS AND TYPE OF CURB, SEE LAYOUT PLANS.
- FOR GRADING DETAILS AND LAYOUT INFORMATION NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
- FOR DRAINAGE IMPROVEMENTS, SEE DRAINAGE AND UTILITY PLANS.
- FOR COLD PLANE AND OVERLAY CONFORM LIMITS, SEE PAVING PLANS.
- SLURRY SEAL SHALL BE PLACED OVER NEW ASPHALT PAVEMENT. SLURRY SEAL LIMITS SHALL EXTEND TO THE CURB RETURN OF INTERSECTING STREETS.
- FOR DIGOUT LOCATIONS, SEE PAVING PLANS.
- DIGOUTS SHOULD BE REPAIRED USING PAVEMENT STRUCTURAL SECTION 1. THE EXISTING ASPHALT, AGGREGATE BASE, AND ANY PORTION OF THE SUBGRADE NEEDED TO MAKE THE SECTION THICKNESS SHOULD BE REMOVED. THE UNDERLYING SUBGRADE SHOULD BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT, DATED NOVEMBER 15, 2024.
- AGGREGATE BASE SHOULD BE USED TO MAKE GRADES UNDER THE FULL HMA SECTION AND SHOULD BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT DATED NOVEMBER 15, 2024.

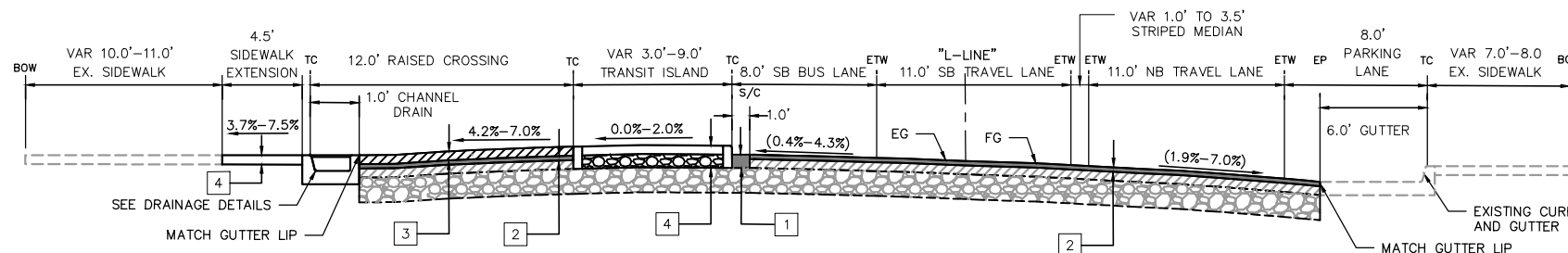
PAVEMENT STRUCTURAL SECTIONS:

- 1 [12" DEEP LIFT HMA (TYPE A)]
- 2 [COLD PLANE AC PAVEMENT (3" MAX) 3" HMA (TYPE A) INLAY]
- 3 [HMA (TYPE A) OVERLAY (6" MAX)]
- 4 [3.5" MIN PCC 4" MIN AGGREGATE BASE (TYPE A)]
- 5 [6" MIN PCC]
- 6 [3" WOOD MULCH 15" IMPORTED SOIL]



"L" 12+80.87 TO 14+45.32
 "L" 18+95.73 TO 20+70.63
 "L" 33+88.95 TO 35+39.17
LAKESHORE AVENUE

NOT TO SCALE



"L" 12+02.78 TO 12+22.80
 "L" 18+07.63 TO 18+19.63
 "L" 33+31.04 TO 33+43.04
 "L" 41+24.53 TO 42+36.53
LAKESHORE AVENUE

NOT TO SCALE

100% SUBMITTAL
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

TYPICAL SECTIONS

PROJECT NO. **1007299**

SCALE: NTS SHEET NO. X-01

DATE: 12/11/2024 8 OF 83

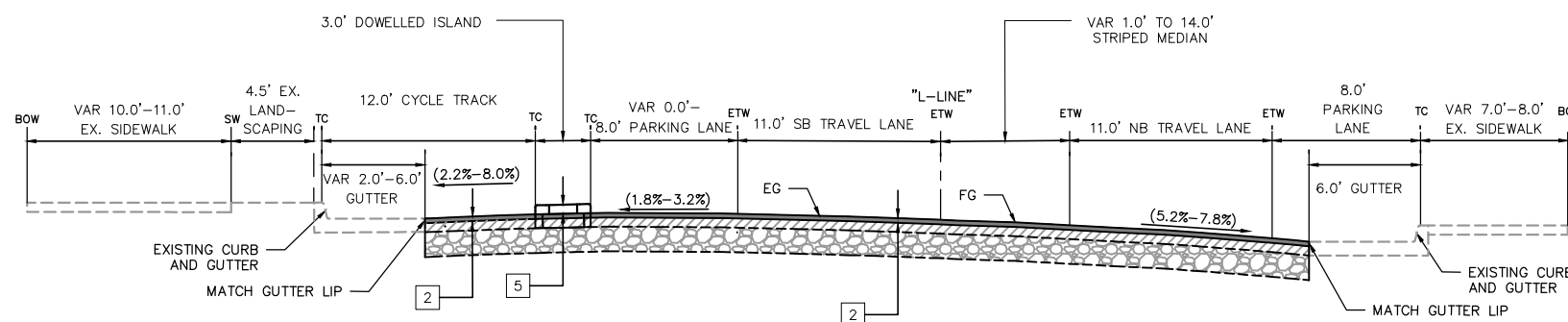
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 PLOT DATE: 12/11/2024
 PLOTTED BY: Priya Pallivathucal

NOTES:

- EXISTING PAVEMENT SECTION VARIES ALONG LAKESHORE AVENUE PER THE GEOTECHNICAL REPORT PREPARED BY ALL EARTH GEOTECHNICAL ENGINEERING INC., DATED MAY 20, 2024. SEE PAVING PLANS FOR APPROXIMATE CORING AND BORING LOCATIONS AND A SUMMARY OF EXISTING PAVEMENT SECTIONS.
- SEE PAVING PLANS FOR EXACT LIMITS OF PAVING.
- FOR SAWCUT LIMITS, SEE DEMOLITION PLANS.
- CONTRACTOR SHALL SAWCUT TO A NEAT LINE.
- FOR LIMITS AND TYPE OF CURB, SEE LAYOUT PLANS.
- FOR GRADING DETAILS AND LAYOUT INFORMATION NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
- FOR DRAINAGE IMPROVEMENTS, SEE DRAINAGE AND UTILITY PLANS.
- FOR COLD PLANE AND OVERLAY CONFORM LIMITS, SEE PAVING PLANS.
- SLURRY SEAL SHALL BE PLACED OVER NEW ASPHALT PAVEMENT. SLURRY SEAL LIMITS SHALL EXTEND TO THE CURB RETURN OF INTERSECTING STREETS.
- CRACKS IN THE UNDERLYING BASECOURSE SHOULD BE SEALED PRIOR TO THE APPLICATION OF SLURRY/SEAL COATS.
- FOR DIGOUT LOCATIONS, SEE PAVING PLANS.
- DIGOUTS SHOULD BE REPAIRED USING PAVEMENT STRUCTURAL SECTION 1. THE EXISTING ASPHALT, AGGREGATE BASE, AND ANY PORTION OF THE SUBGRADE NEEDED TO MAKE THE SECTION THICKNESS SHOULD BE REMOVED. THE UNDERLYING SUBGRADE SHOULD BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT, DATED NOVEMBER 15, 2024.
- AGGREGATE BASE SHOULD BE USED TO MAKE GRADES UNDER THE FULL HMA SECTION AND SHOULD BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT DATED NOVEMBER 15, 2024.

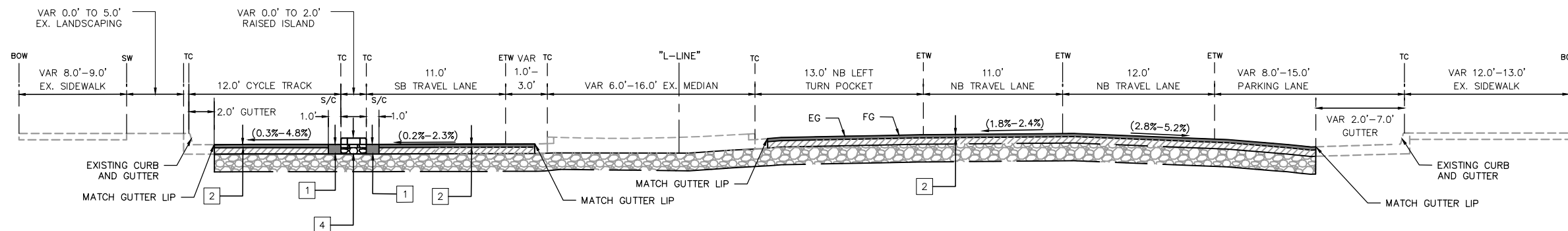
PAVEMENT STRUCTURAL SECTIONS:

- 1 - 21" DEEP LIFT HMA (TYPE A)
- 2 - COLD PLANE AC PAVEMENT (3" MAX) 3" HMA (TYPE A) INLAY
- 3 - HMA (TYPE A) OVERLAY (6" MAX)
- 4 - 3.5" MIN PCC 4" MIN PROCESSED AGGREGATE BASE (TYPE A)
- 5 - 6" MIN PCC
- 6 - 3" WOOD MULCH 15" IMPORTED SOIL



"L" 14+51.82 TO 17+73.02
 "L" 20+77.37 TO 29+95.17
 "L" 30+78.24 TO 32+73.06
 "L" 35+45.67 TO 38+16.42
 "L" 39+11.44 TO 41+66.94
 "L" 43+56.64 TO 43+92.30
LAKESHORE AVENUE

NOT TO SCALE



"L" 45+65.77 TO 47+29.70
LAKESHORE AVENUE

NOT TO SCALE

100% SUBMITTAL
 NOT FOR BID OR
 CONSTRUCTION

PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON
 ANSI B (11" X 17") SHEETS. REFER TO
 GRAPHIC SCALE FOR SHEETS OF
 DIFFERENT SIZES.

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CHECKED BY RYAN DOLE, P.E.
 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



CITY OF OAKLAND
 DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

TYPICAL SECTIONS

PROJECT NO.
1007299

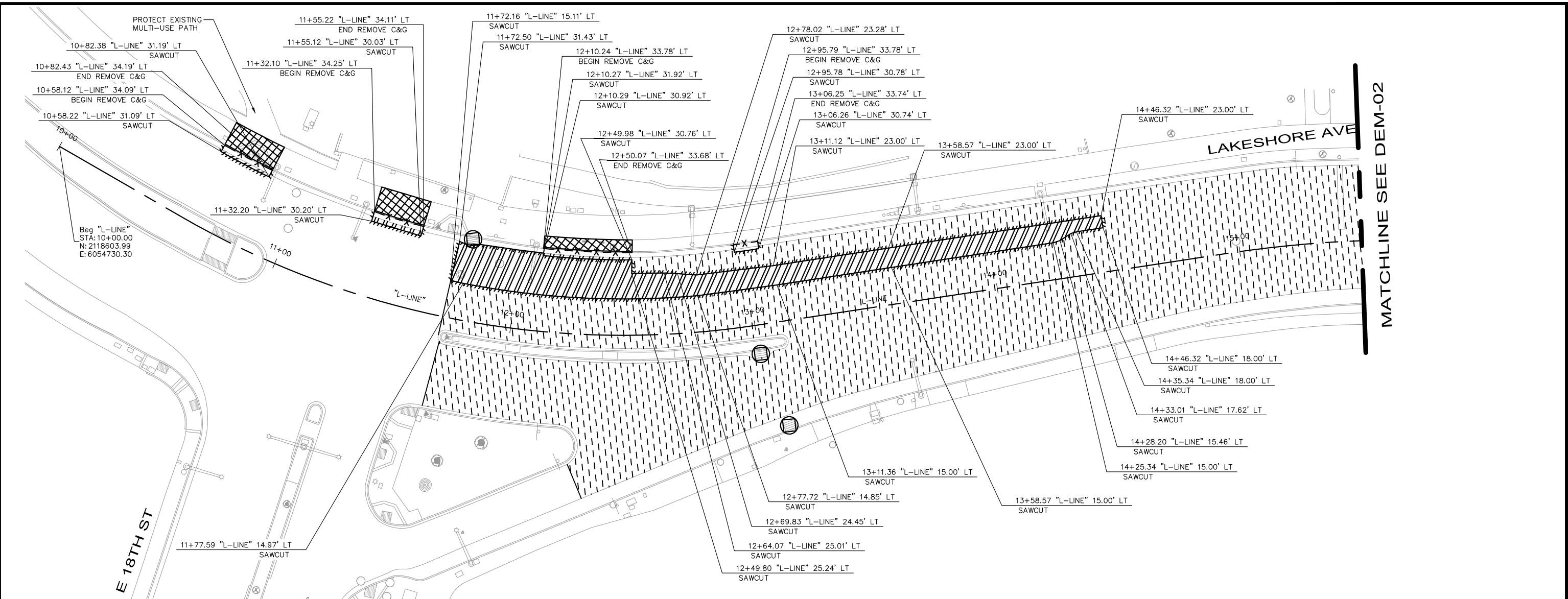
SCALE:
 NTS

SHEET NO.
X-02

DATE: 12/11/2024

9 OF 83

DRAWING NAME: K:\OAK_RDW\09766204 - Lakeshore Ave. Cycle Track\04_CADD\Plan Sheets\TX-01.dwg
 PLOT DATE: 12/11/2024
 PLOTTED BY: Priya Pallivathucal



MATCHLINE SEE DEM-02

LEGEND

- FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
- COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
- REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
- REMOVE EXISTING CONCRETE MEDIAN. DEMOLITION INCLUDES STAMPED CONCRETE, PAVERS, SIGNS, BOLLARDS, AND FLEXIBLE DELINEATOR POST.
- BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 13). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
- CLEAR AND GRUB EXISTING LANDSCAPE. REMOVE SOIL, ROCKS, AND OTHER MATERIALS IN CONFLICT WITH PROPOSED IMPROVEMENTS. FOR LAYOUT INFORMATION NOT SHOWN, SEE LAYOUT PLANS.
- ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
- X - X - X - REMOVE CURB AND GUTTER
- INLET PROTECTION
- EXISTING DRAINAGE INLET

NOTES

1. THE DRAWINGS MAY NOT INDICATE IN DETAIL ALL DEMOLITION WORK TO BE PERFORMED. THE CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO START OF WORK TO DETERMINE THE FULL EXTENT OF DEMOLITION. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER PRIOR TO REMOVAL OF SAID ITEMS.
2. THERE ARE EXISTING UTILITY FACILITIES CLOSE TO AND WITHIN THE PROPOSED WORK AREA. APPROXIMATE LOCATIONS ARE SHOWN ON THE DRAINAGE AND UTILITY PLANS. ALL EXISTING UTILITIES ARE TO BE PROTECTED IN PLACE OR ADJUSTED TO NEW FINISH GRADE UNLESS SPECIFICALLY IDENTIFIED OTHERWISE. SEE SHEETS U-01 TO U-09 FOR ADDITIONAL DETAILS.
3. CURB, PAVEMENT, AND SIDEWALK REMOVAL LIMITS MAY VARY SLIGHTLY FROM THE DEMOLITION PLANS DUE TO CHANGES IN REMOVAL LIMITS AS FOLLOWS. REMOVE EXISTING SIDEWALK, MEDIAN, CURB, AND GUTTER AT A SCORE MARK OR WEAKENED PLANE JOINT NEAREST TO LIMITS SHOWN ON THESE PLANS. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER AND CONTRACTOR.
4. REMOVAL AND REGRADING OF BACK OF WALK LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
5. SAWCUT AND REMOVAL OF PAVEMENT SECTION SHALL BE TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
7. PRIOR TO STARTING ANY WORK, CONTRACTOR SHALL PRESERVE ALL SURVEY MARKERS AND MONUMENTS. SEE GENERAL NOTES ON SHEET GN-01 FOR FURTHER SURVEY MARKER AND MONUMENT REQUIREMENTS.
8. ALL WORK MUST BE PERFORMED WITHIN THE LIMITS OF EXISTING R/W AS SHOWN ON THESE PLANS AND AS COORDINATED WITH THE CITY ENGINEER. IF R/W IS NOT SHOWN, R/W IS ASSUMED TO BE AT THE BACK OF EXISTING SIDEWALK.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS, AND STREETS. SEE SHEET WP-01 FOR ADDITIONAL WATER POLLUTION PREVENTION NOTES.
10. ALL PAVEMENT MARKINGS AND STRIPING IN CONFLICT SHALL BE REMOVED. SEE SHEETS SS-01 TO SS-09 FOR SIGNING AND STRIPING DETAILS.
11. SEE SHEETS E-01 TO E-03 FOR ELECTRICAL AND TRAFFIC SIGNAL REMOVALS.
12. FOR SAWCUT LIMITS NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
13. FOR DIGOUT LIMITS NOT SHOWN, SEE PAVING PLANS.
14. CONTRACTOR SHOULD MATCH EXISTING CONCRETE COLOR AND/OR PATTERN OF EXISTING SIDEWALK WITHIN ALL SIDEWALK RECONSTRUCTION LIMITS SPECIFIED ON PLANS.
15. ANY INCREASE IN DISTURBED AREA, OR CHANGE TO PAVING LIMITS, IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

PLAN PRODUCTION WARNING
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Kimley Horn
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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

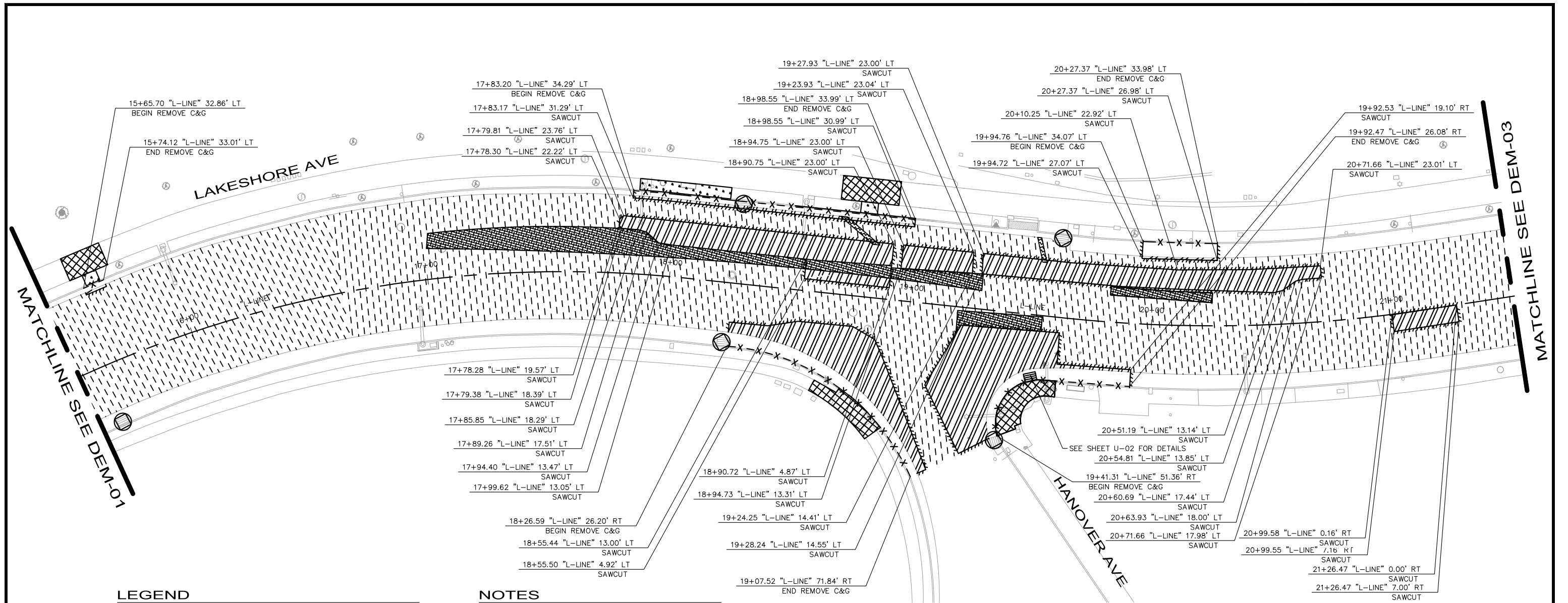
PROJECT NO.
1007299

SCALE: AS SHOWN






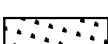

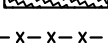


SHEET NO.
DEM-01
10 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\1007299\1007299-01-Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DEM-01-08.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal



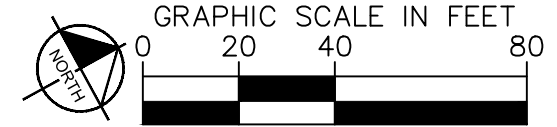
LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
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PLAN PRODUCTION WARNING
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DESIGNED BY	JORGE MORALES
DRAWN BY	TESSA KEMPER/PRIYA PALLIVATHUCAL



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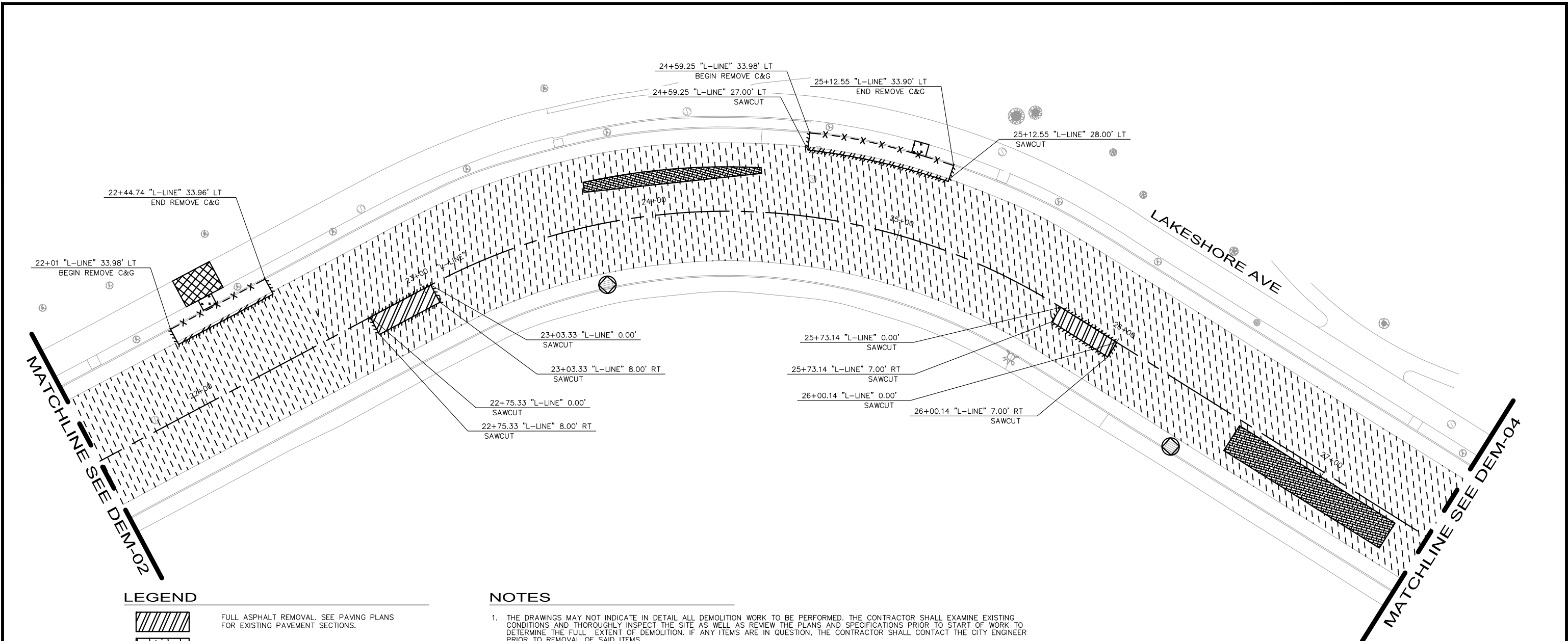
**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE




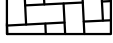

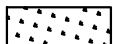

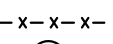


DEMOLITION PLANS

PROJECT NO.
1007299
 SCALE: AS SHOWN
 SHEET NO. DEM-02
 11 OF 83
 DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DEM-01-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya.Pallivathucal



LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
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-  EXISTING DRAINAGE INLET

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

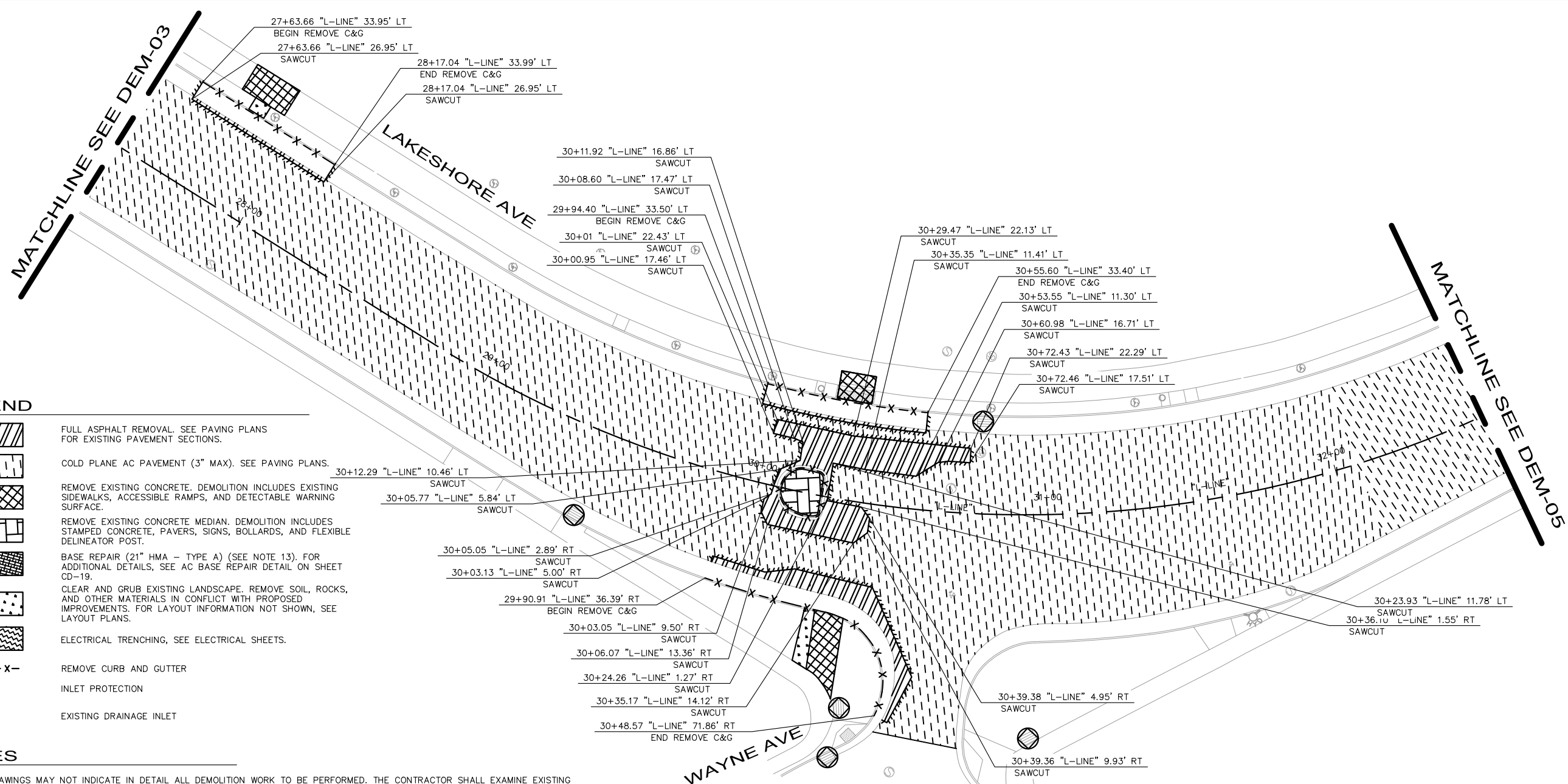
PROJECT NO.
1007299

SCALE:
 AS SHOWN


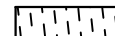
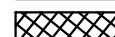
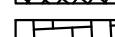




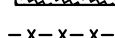

DATE: 12/11/2024

SHEET NO.
 DEM-03
 12 OF 83

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DEM-01-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



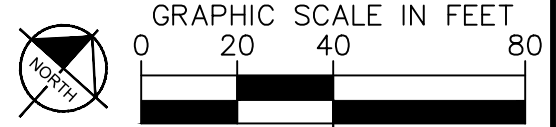
LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
-  REMOVE EXISTING CONCRETE MEDIAN. DEMOLITION INCLUDES STAMPED CONCRETE, PAVERS, SIGNS, BOLLARDS, AND FLEXIBLE DELINEATOR POST.
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-  CLEAR AND GRUB EXISTING LANDSCAPE. REMOVE SOIL, ROCKS, AND OTHER MATERIALS IN CONFLICT WITH PROPOSED IMPROVEMENTS. FOR LAYOUT INFORMATION NOT SHOWN, SEE LAYOUT PLANS.
-  ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
-  -X-X-X- REMOVE CURB AND GUTTER
-  INLET PROTECTION
-  EXISTING DRAINAGE INLET

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5. SAWCUT AND REMOVAL OF PAVEMENT SECTION SHALL BE TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
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11. SEE SHEETS E-01 TO E-03 FOR ELECTRICAL AND TRAFFIC SIGNAL REMOVALS.
12. FOR SAWCUT LIMITS NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
13. FOR DIGOUT LIMITS NOT SHOWN, SEE PAVING PLANS.
14. CONTRACTOR SHOULD MATCH EXISTING CONCRETE COLOR AND/OR PATTERN OF EXISTING SIDEWALK WITHIN ALL SIDEWALK RECONSTRUCTION LIMITS SPECIFIED ON PLANS.
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100% SUBMITTAL
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CONSTRUCTION



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

Kimley Horn
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CHECKED BY RYAN DOLE, P.E.
DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

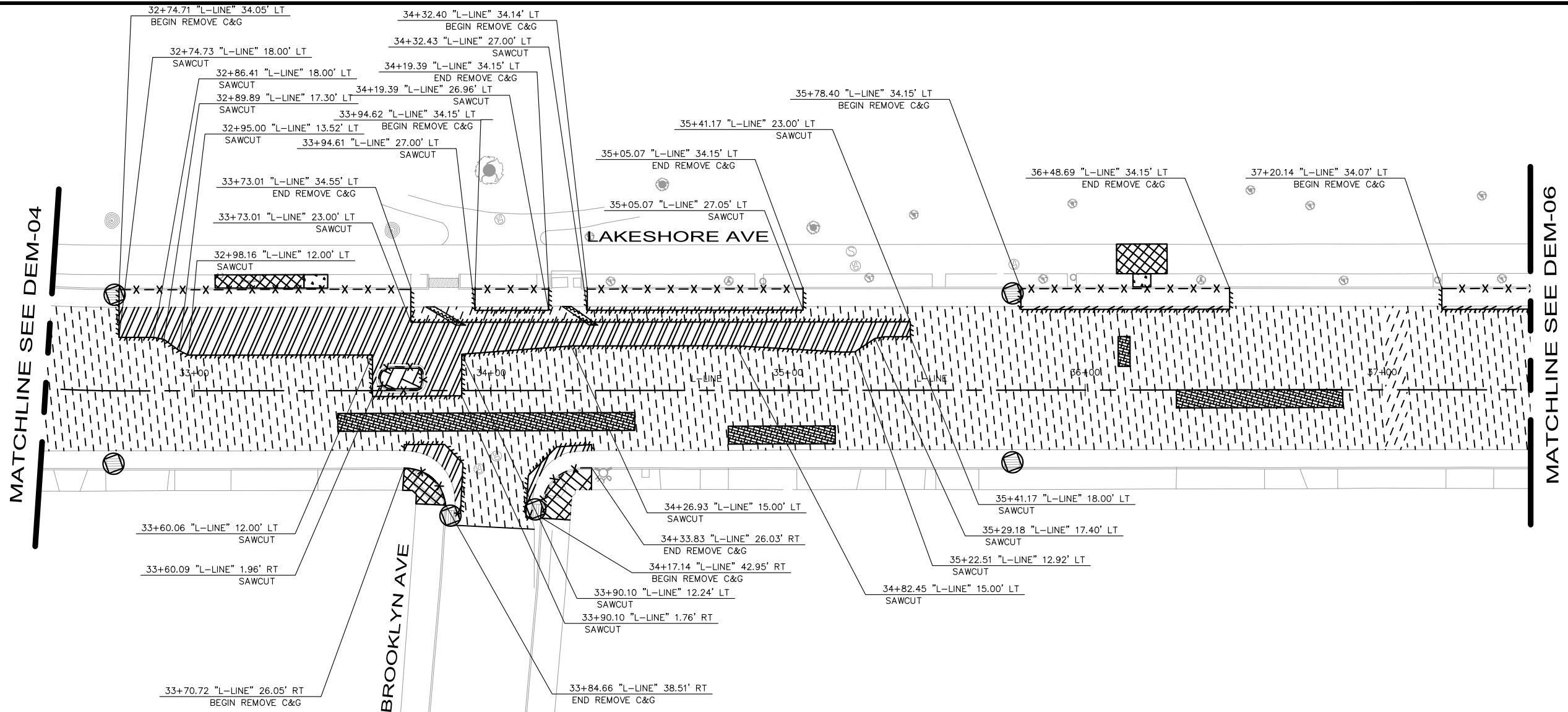
No.	DATE	BY	REFERENCE

DEMOLITION PLANS

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. DEM-04
DATE: 12/11/2024 13 OF 83

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Trace\04_CADD\Plan_Sheets\DEM-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



MATCHLINE SEE DEM-04

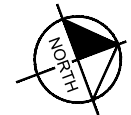
MATCHLINE SEE DEM-06

LEGEND

- FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
- COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
- REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
- REMOVE EXISTING CONCRETE MEDIAN. DEMOLITION INCLUDES STAMPED CONCRETE, PAVERS, SIGNS, BOLLARDS, AND FLEXIBLE DELINEATOR POST.
- BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 13). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
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- x - x - x - REMOVE CURB AND GUTTER
- INLET PROTECTION
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CHECKED BY	RYAN DOLE, P.E.
DESIGNED BY	JORGE MORALES
DRAWN BY	TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

PROJECT NO.
1007299

SCALE: AS SHOWN

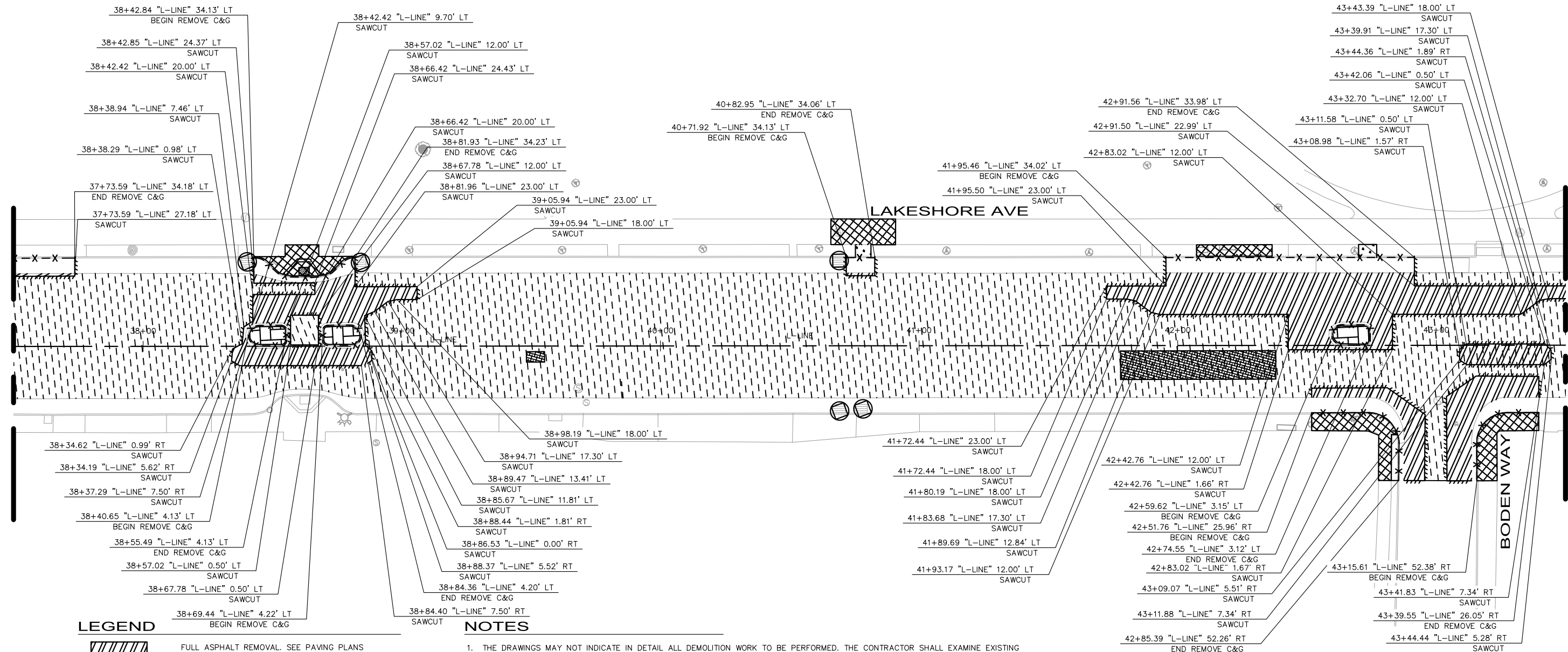
SHEET NO.
DEM-05
14 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DEM-01-08.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

MATCHLINE SEE DEM-05

MATCHLINE SEE DEM-07



LEGEND

- FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
- COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

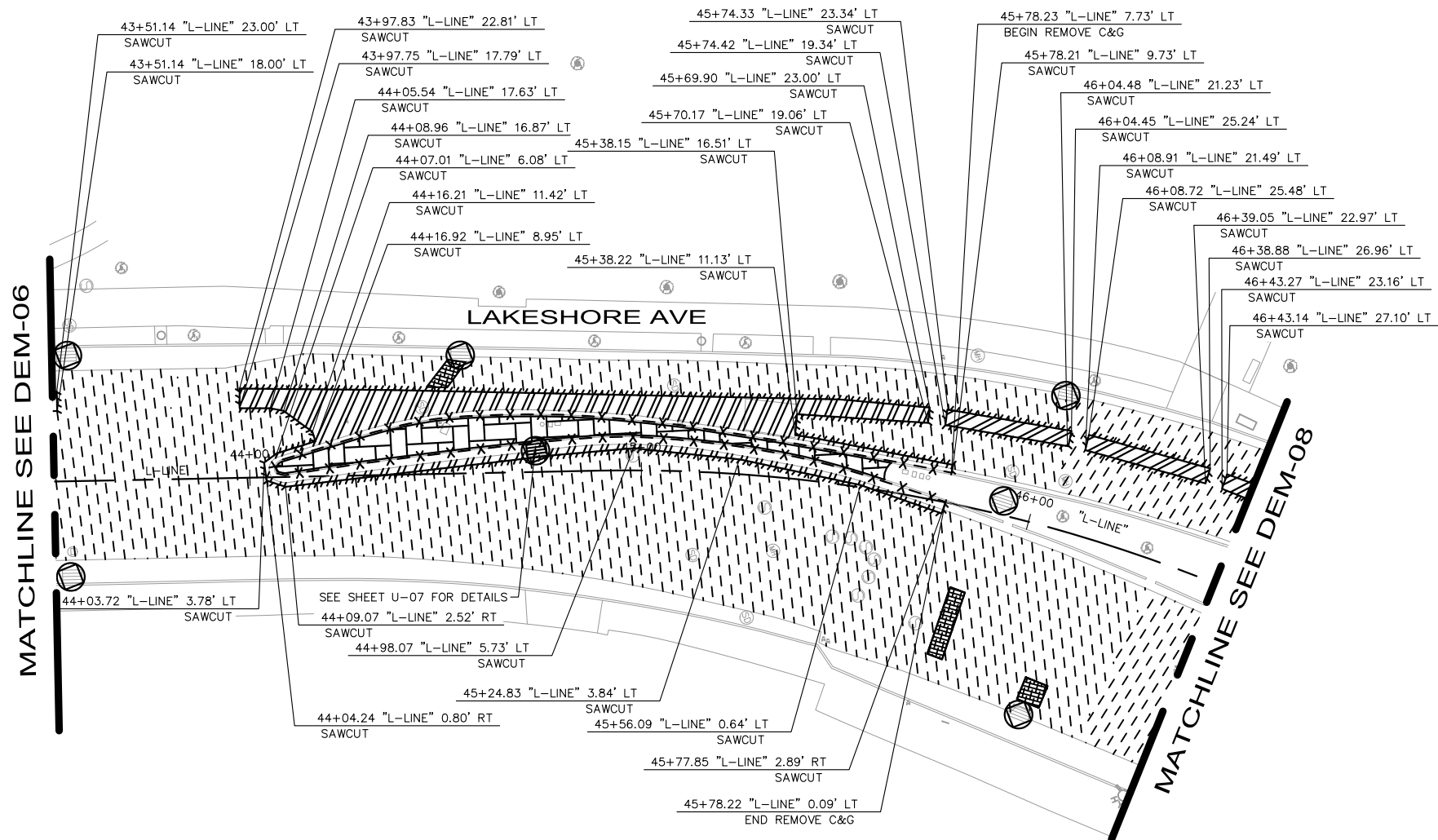
PROJECT NO.
1007299

SCALE:
 AS SHOWN


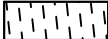



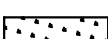

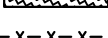


SHEET NO.
 DEM-06
 15 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DEM-01-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



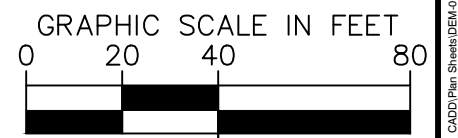
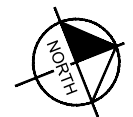
LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
-  REMOVE EXISTING CONCRETE MEDIAN. DEMOLITION INCLUDES STAMPED CONCRETE, PAVERS, SIGNS, BOLLARDS, AND FLEXIBLE DELINEATOR POST.
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 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

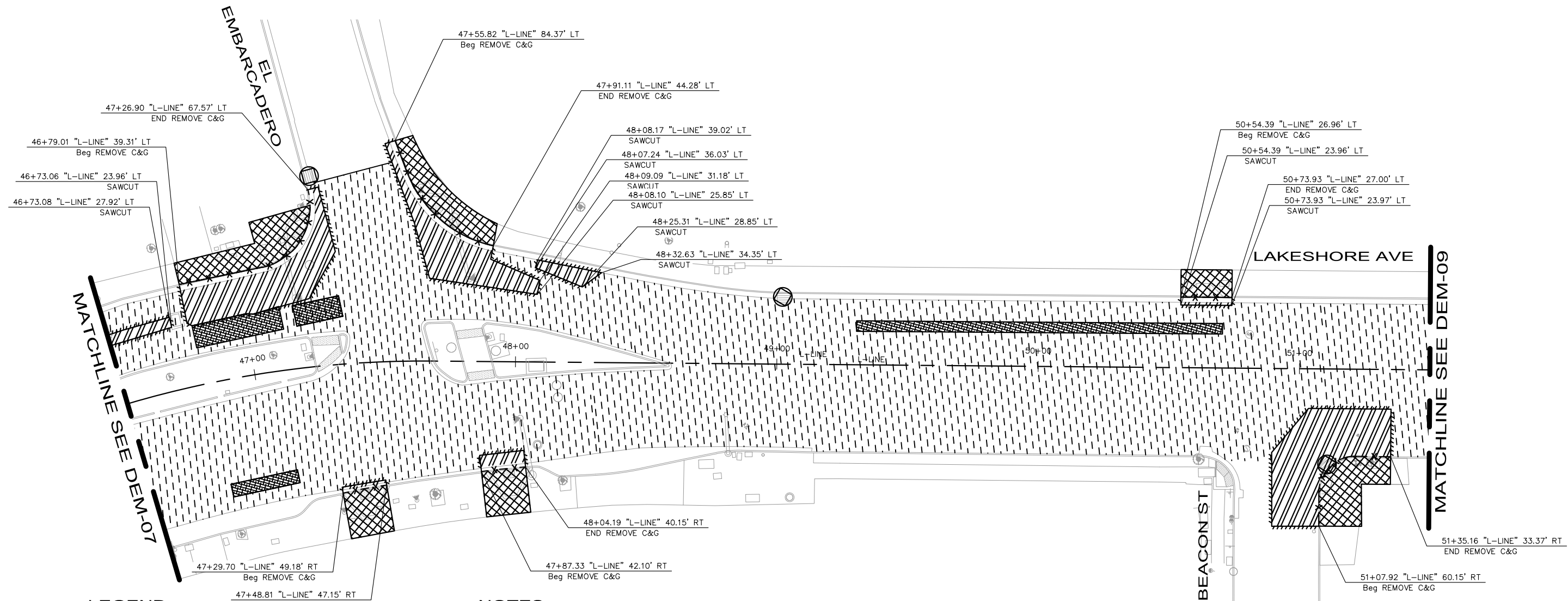
PROJECT NO.
1007299

SCALE:
 AS SHOWN


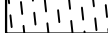



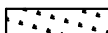

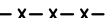


SHEET NO.
 DEM-07
 16 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_BDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\DEM-07-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



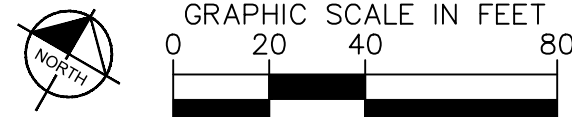
LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
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-  EXISTING DRAINAGE INLET

NOTES

1. THE DRAWINGS MAY NOT INDICATE IN DETAIL ALL DEMOLITION WORK TO BE PERFORMED. THE CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO START OF WORK TO DETERMINE THE FULL EXTENT OF DEMOLITION. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER PRIOR TO REMOVAL OF SAID ITEMS.
2. THERE ARE EXISTING UTILITY FACILITIES CLOSE TO AND WITHIN THE PROPOSED WORK AREA. APPROXIMATE LOCATIONS ARE SHOWN ON THE DRAINAGE AND UTILITY PLANS. ALL EXISTING UTILITIES ARE TO BE PROTECTED IN PLACE OR ADJUSTED TO NEW FINISH GRADE UNLESS SPECIFICALLY IDENTIFIED OTHERWISE. SEE SHEETS U-01 TO U-09 FOR ADDITIONAL DETAILS.
3. CURB, PAVEMENT, AND SIDEWALK REMOVAL LIMITS MAY VARY SLIGHTLY FROM THE DEMOLITION PLANS DUE TO CHANGES IN REMOVAL LIMITS AS FOLLOWS: REMOVE EXISTING SIDEWALK, MEDIAN, CURB, AND GUTTER AT A SCORE MARK OR WEAKENED PLANE JOINT NEAREST TO LIMITS SHOWN ON THESE PLANS. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER AND CONTRACTOR.
4. REMOVAL AND REGRADING OF BACK OF WALK LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
5. SAWCUT AND REMOVAL OF PAVEMENT SECTION SHALL BE TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
7. PRIOR TO STARTING ANY WORK, CONTRACTOR SHALL PRESERVE ALL SURVEY MARKERS AND MONUMENTS. SEE GENERAL NOTES ON SHEET GN-01 FOR FURTHER SURVEY MARKER AND MONUMENT REQUIREMENTS.
8. ALL WORK MUST BE PERFORMED WITHIN THE LIMITS OF EXISTING R/W AS SHOWN ON THESE PLANS AND AS COORDINATED WITH THE CITY ENGINEER. IF R/W IS NOT SHOWN, R/W IS ASSUMED TO BE AT THE BACK OF EXISTING SIDEWALK.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS, AND STREETS. SEE SHEET WP-01 FOR ADDITIONAL WATER POLLUTION PREVENTION NOTES.
10. ALL PAVEMENT MARKINGS AND STRIPING IN CONFLICT SHALL BE REMOVED. SEE SHEETS SS-01 TO SS-09 FOR SIGNING AND STRIPING DETAILS.
11. SEE SHEETS E-01 TO E-03 FOR ELECTRICAL AND TRAFFIC SIGNAL REMOVALS.
12. FOR SAWCUT LIMITS NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
13. FOR DIGOUT LIMITS NOT SHOWN, SEE PAVING PLANS.
14. CONTRACTOR SHOULD MATCH EXISTING CONCRETE COLOR AND/OR PATTERN OF EXISTING SIDEWALK WITHIN ALL SIDEWALK RECONSTRUCTION LIMITS SPECIFIED ON PLANS.
15. ANY INCREASE IN DISTURBED AREA, OR CHANGE TO PAVING LIMITS, IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

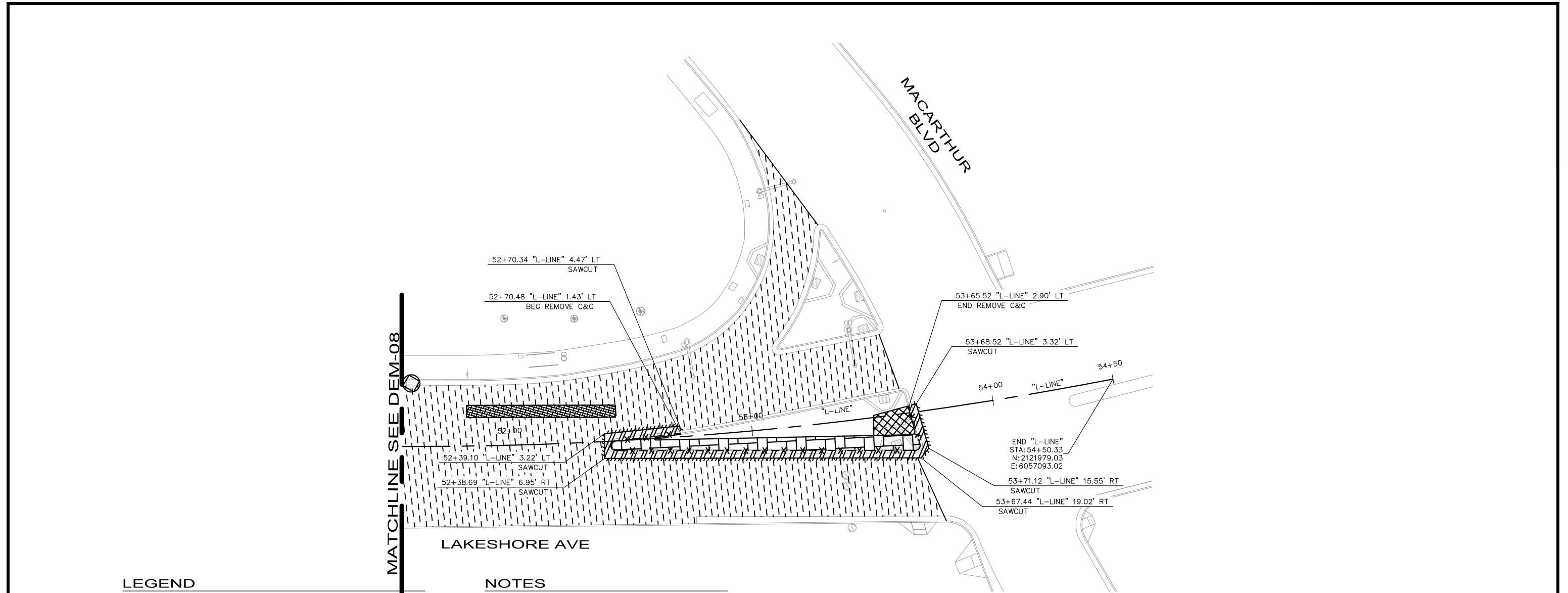
PROJECT NO.
1007299

SCALE:
 AS SHOWN








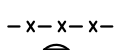
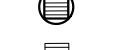

SHEET NO.
 DEM-08
 17 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\DEM-01-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



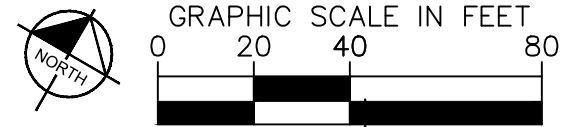
LEGEND

-  FULL ASPHALT REMOVAL. SEE PAVING PLANS FOR EXISTING PAVEMENT SECTIONS.
-  COLD PLANE AC PAVEMENT (3" MAX). SEE PAVING PLANS.
-  REMOVE EXISTING CONCRETE. DEMOLITION INCLUDES EXISTING SIDEWALKS, ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE.
-  REMOVE EXISTING CONCRETE MEDIAN. DEMOLITION INCLUDES STAMPED CONCRETE, PAVERS, SIGNS, BOLLARDS, AND FLEXIBLE DELINEATOR POST.
-  BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 13). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
-  CLEAR AND GRUB EXISTING LANDSCAPE. REMOVE SOIL, ROCKS, AND OTHER MATERIALS IN CONFLICT WITH PROPOSED IMPROVEMENTS. FOR LAYOUT INFORMATION NOT SHOWN, SEE LAYOUT PLANS.
-  ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
-  - X - X - X - REMOVE CURB AND GUTTER
-  INLET PROTECTION
-  EXISTING DRAINAGE INLET

NOTES

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3. CURB, PAVEMENT, AND SIDEWALK REMOVAL LIMITS MAY VARY SLIGHTLY FROM THE DEMOLITION PLANS DUE TO CHANGES IN REMOVAL LIMITS AS FOLLOWS. REMOVE EXISTING SIDEWALK, MEDIAN, CURB, AND GUTTER AT A SCORE MARK OR WEAKENED PLANE JOINT NEAREST TO LIMITS SHOWN ON THESE PLANS. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER AND CONTRACTOR.
4. REMOVAL AND REGRADING OF BACK OF WALK LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
5. SAWCUT AND REMOVAL OF PAVEMENT SECTION SHALL BE TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
6. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
7. PRIOR TO STARTING ANY WORK, CONTRACTOR SHALL PRESERVE ALL SURVEY MARKERS AND MONUMENTS. SEE GENERAL NOTES ON SHEET GN-01 FOR FURTHER SURVEY MARKER AND MONUMENT REQUIREMENTS.
8. ALL WORK MUST BE PERFORMED WITHIN THE LIMITS OF EXISTING R/W AS SHOWN ON THESE PLANS AND AS COORDINATED WITH THE CITY ENGINEER. IF R/W IS NOT SHOWN, R/W IS ASSUMED TO BE AT THE BACK OF EXISTING SIDEWALK.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS, AND STREETS. SEE SHEET WP-01 FOR ADDITIONAL WATER POLLUTION PREVENTION NOTES.
10. ALL PAVEMENT MARKINGS AND STRIPING IN CONFLICT SHALL BE REMOVED. SEE SHEETS SS-01 TO SS-09 FOR SIGNING AND STRIPING DETAILS.
11. SEE SHEETS E-01 TO E-03 FOR ELECTRICAL AND TRAFFIC SIGNAL REMOVALS.
12. FOR SAWCUT LIMITS NOT SHOWN, SEE LAYOUT PLANS AND CONSTRUCTION DETAIL SHEETS.
13. FOR DIGOUT LIMITS NOT SHOWN, SEE PAVING PLANS.
14. CONTRACTOR SHOULD MATCH EXISTING CONCRETE COLOR AND/OR PATTERN OF EXISTING SIDEWALK WITHIN ALL SIDEWALK RECONSTRUCTION LIMITS SPECIFIED ON PLANS.
15. ANY INCREASE IN DISTURBED AREA, OR CHANGE TO PAVING LIMITS, IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

DEMOLITION PLANS

PROJECT NO.
1007299












SCALE:
 AS SHOWN

SHEET NO.
 DEM-09
 18 OF 83

DATE: 12/11/2024

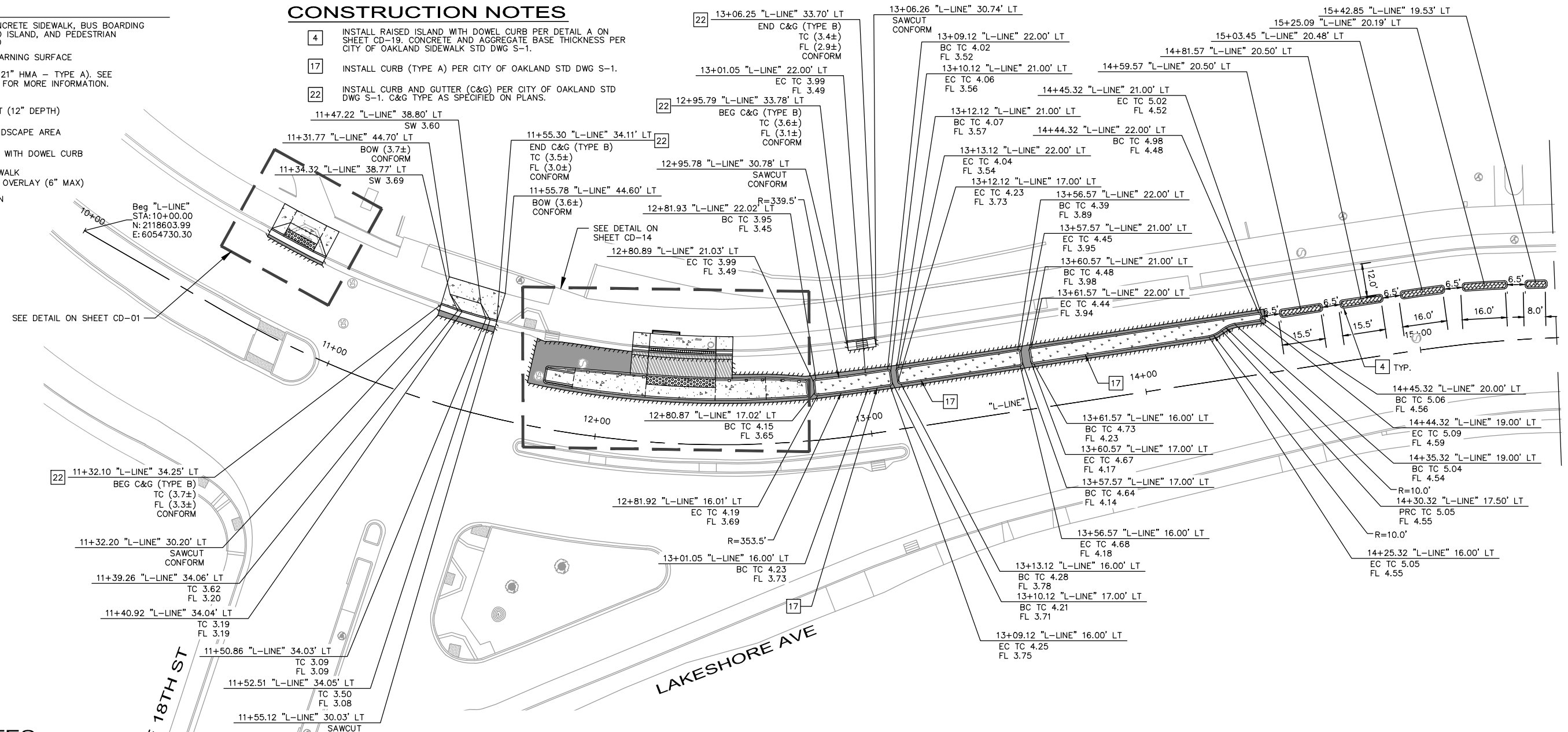
DRAWING NAME: K:\OAK\RD\W\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\DEM-01-08.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal

LEGEND

-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)
-  CHANNEL DRAIN (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  LEAN RAIL

CONSTRUCTION NOTES

- 4** INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 17** INSTALL CURB (TYPE A) PER CITY OF OAKLAND STD DWG S-1.
- 22** INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.



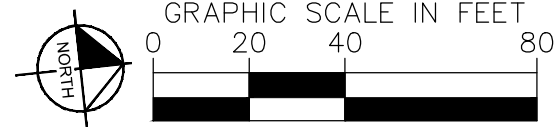
NOTES

1. ALL LOCATIONS WHERE R/W IS NOT IDENTIFIED OR DOES NOT COVER LIMITS OF IMPROVEMENTS, EXISTING BACK OF WALK SHALL BE ASSUMED AS RIGHT OF WAY LIMITS.
2. CONTRACTOR SHALL SAWCUT TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
3. CONFORM SIDEWALK, CURB, AND GUTTER AT NEAREST SCOREMARK OR EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD.
4. PROPOSED BACK OF WALK HORIZONTAL ALIGNMENT TO MATCH EXISTING, UNLESS OTHERWISE SHOWN ON THESE PLANS.
5. ALL EXISTING GRADES AT LIMITS OF WORK LABELED AS CONFORM SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND ANY CONFLICT SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. GUTTER CROSS SLOPE AT BOTTOM OF RAMP OR BLENDED TRANSITIONS SHALL NOT EXCEED 5%.
7. FOR TRENCH GRATE DETAIL, SEE DRAINAGE DETAILS.

8. CONTRACTOR TO VERIFY ALL DEPTHS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND THE RESOLUTION SHALL BE APPROVED BY BOTH THE CITY AND ENGINEER PRIOR TO CONTINUING CONSTRUCTION ACTIVITIES.
9. SEE DRAINAGE AND UTILITY PLANS FOR UTILITIES THAT SHOULD BE ADJUSTED TO GRADE. EXISTING UTILITY BOXES AND COVERS SHALL BE ADJUSTED TO BE FLUSH WITH THE CURB RAMP, SIDEWALK, AND PAVEMENT SURFACE. ALL OTHER UTILITY PIPES, DUCTS, BOXES, VAULTS, AND STRUCTURE SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE SHOWN.
10. ALL CONCRETE ISLAND CURB CORNERS TO BE ROUNDED USING 1' RADIUS, UNLESS OTHERWISE SHOWN ON THESE PLANS. FOR DOWEL CURB CONCRETE CORNER CURVE RADIUS, SEE DETAIL A ON SHEET CD-19.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK AND MONUMENT. IF A BENCHMARK OR MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENT AT THE CONTRACTOR'S EXPENSE.
12. PROPOSED CURB AND GUTTER SHALL BE DOWELED WITH #4 DOWEL TO EXISTING CURB AND GUTTER AT ALL CONFORM LOCATIONS.
13. FOR PAVEMENT STRUCTURAL SECTIONS, SEE TYPICAL CROSS SECTIONS SHEETS AND PAVING PLANS.
14. FOR GRADING DETAILS AND LAYOUT INFORMATION NOT SHOWN, SEE CONSTRUCTION DETAIL SHEETS.
15. FOR SIGNING AND STRIPING IMPROVEMENTS, SEE SIGNAGE AND STRIPING PLANS.
16. FOR TRAFFIC SIGNAL IMPROVEMENTS, SEE ELECTRICAL PLANS.
17. LANDSCAPE AREA SHOULD INCLUDE 3IN OF WOOD MULCH AND AT LEAST 15IN OF IMPORTED SOIL, PER CITY OF OAKLAND STD.
18. CONTRACTOR SHALL MATCH EXISTING CONCRETE COLOR AND/OR PATTERN OF EXISTING SIDEWALK WITHIN ALL SIDEWALK RECONSTRUCTION LIMITS SPECIFIED ON PLANS.

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PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

LAYOUT

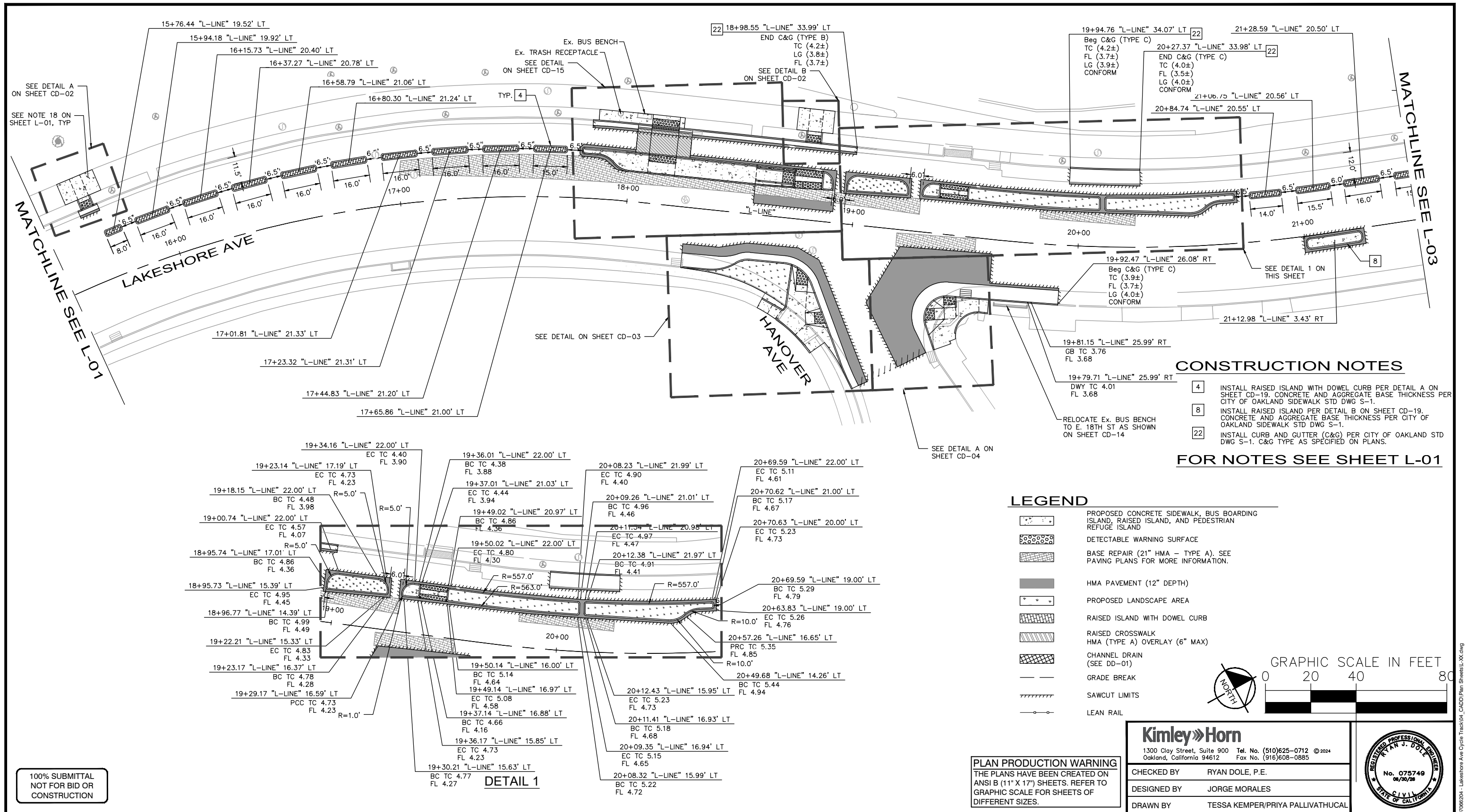
PROJECT NO.
1007299

SCALE: AS SHOWN
DATE: 12/11/2024

SHEET NO.
L-01
19 OF 83

MATCHLINE SEE L-02

DRAWING NAME: K:\OAK_RDW\1007299\1007299-04 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-13-24
PLOTTED BY: Priya Pallivathucal



CONSTRUCTION NOTES

4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.

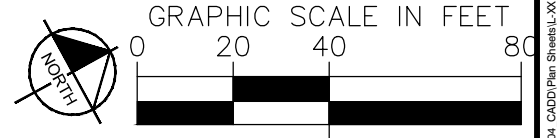
8 INSTALL RAISED ISLAND PER DETAIL B ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.

22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01

LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
-



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PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

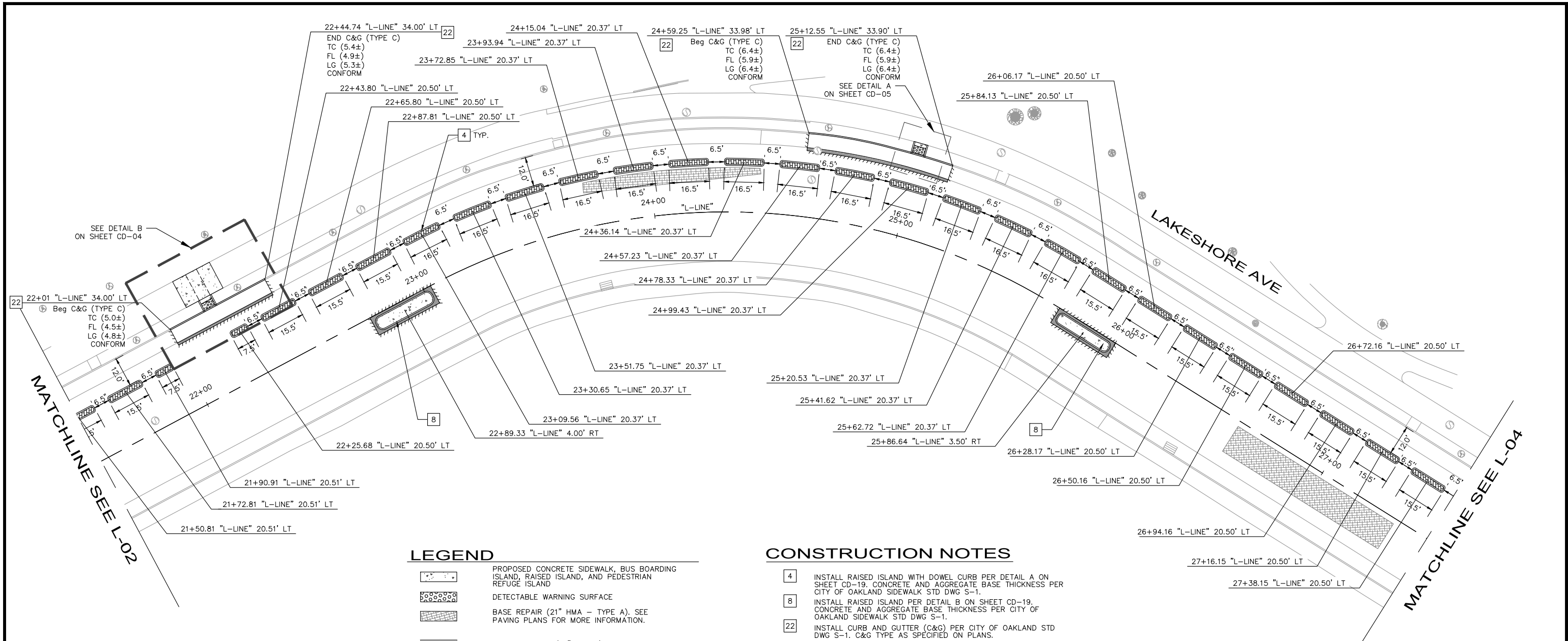
PROJECT NO. **1007299**

SCALE: AS SHOWN

SHEET NO. **L-02**
 20 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\L-XX.dwg
 PLOT DATE: 12-13-24
 PLOTTED BY: Priya Pallivathucal

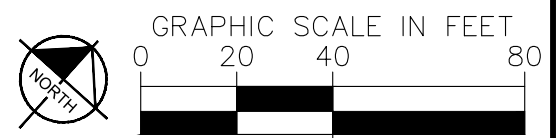


LEGEND

	PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
	DETECTABLE WARNING SURFACE
	BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
	HMA PAVEMENT (12" DEPTH)
	PROPOSED LANDSCAPE AREA
	RAISED ISLAND WITH DOWEL CURB
	RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)
	CHANNEL DRAIN (SEE DD-01)
	GRADE BREAK
	SAWCUT LIMITS
	LEAN RAIL

- CONSTRUCTION NOTES**
- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
 - 8 INSTALL RAISED ISLAND PER DETAIL B ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
 - 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

SCALE:
AS SHOWN

DATE: 12/11/2024

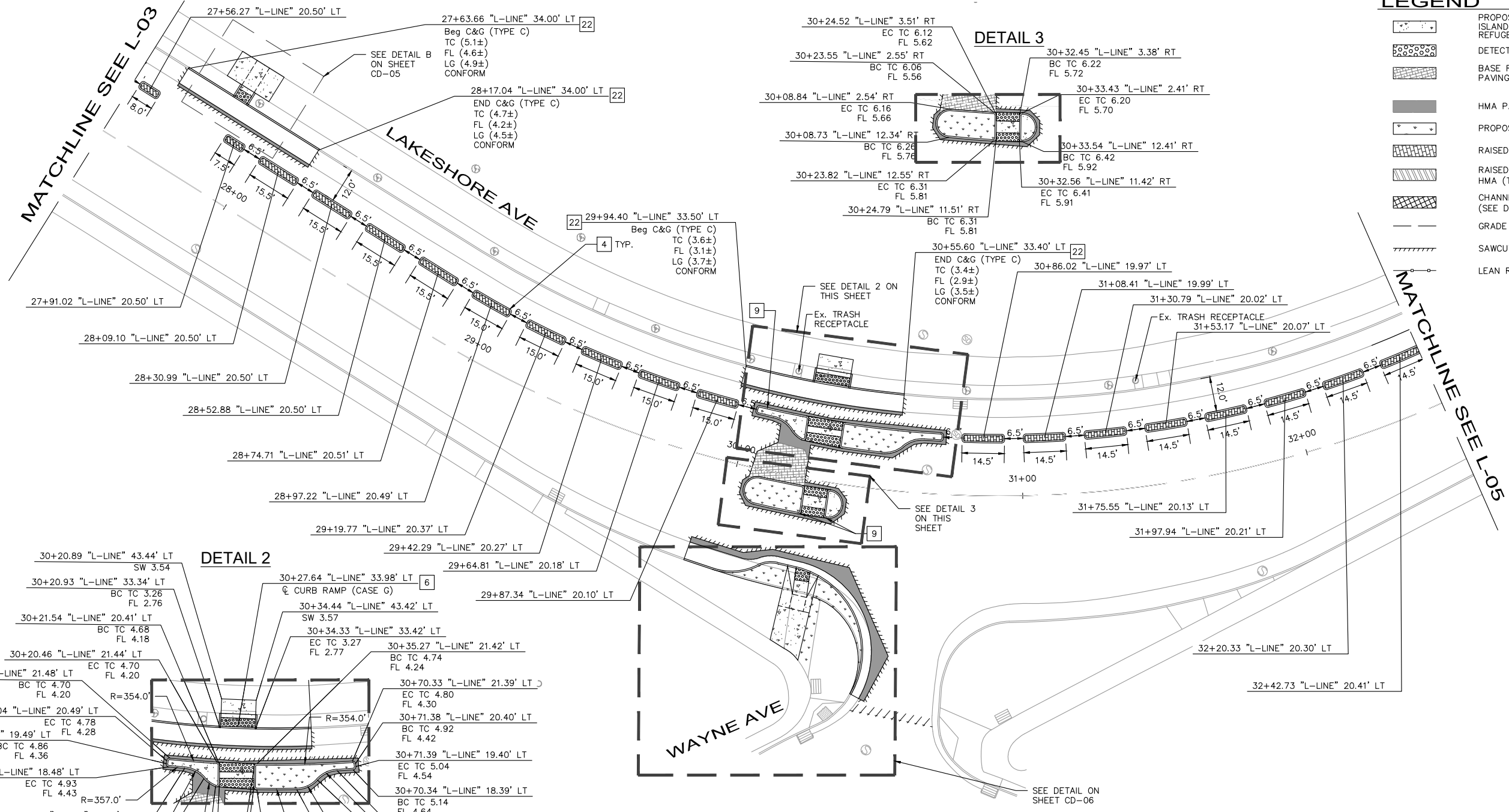
PROJECT NO.
1007299

SHEET NO.
L-03
21 OF 83

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal

LEGEND

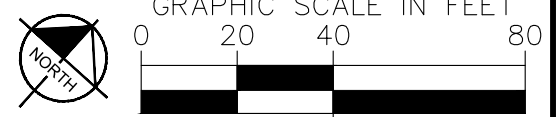
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- DETECTABLE WARNING SURFACE
- BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
- HMA PAVEMENT (12" DEPTH)
- PROPOSED LANDSCAPE AREA
- RAISED ISLAND WITH DOWEL CURB
- RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)
- CHANNEL DRAIN (SEE DD-01)
- GRADE BREAK
- SAWCUT LIMITS
- LEAN RAIL



CONSTRUCTION NOTES

- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19; CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 9 INSTALL PEDESTRIAN REFUGE ISLAND PER DETAIL C ON SHEET CD-19; CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01



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LAYOUT













PROJECT NO.
1007299

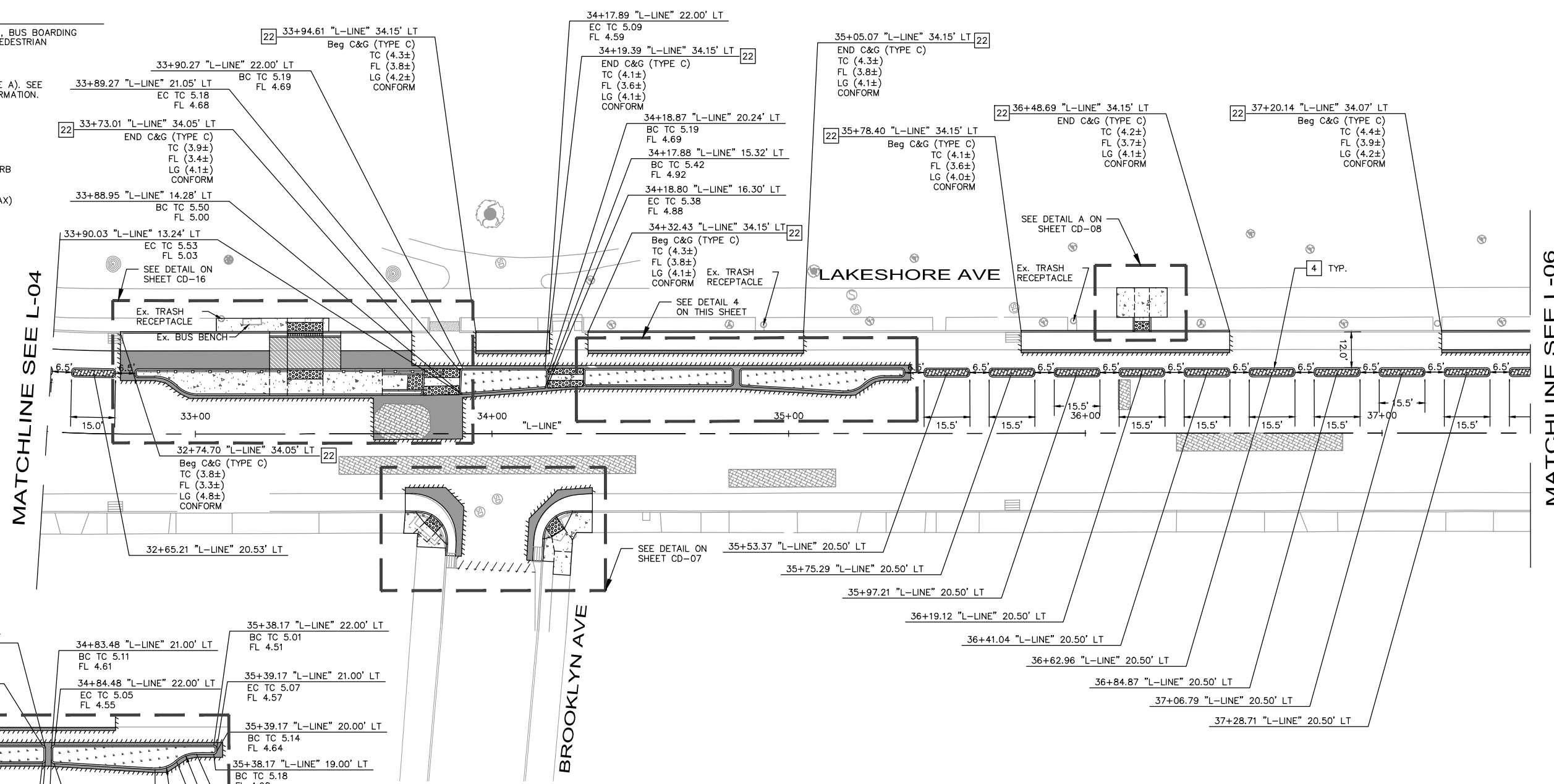
SCALE: AS SHOWN
DATE: 12/11/2024

SHEET NO.
L-04
22 OF 83

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

LEGEND

-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK
-  HMA (TYPE A) OVERLAY (6" MAX)
-  CHANNEL DRAIN (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  LEAN RAIL



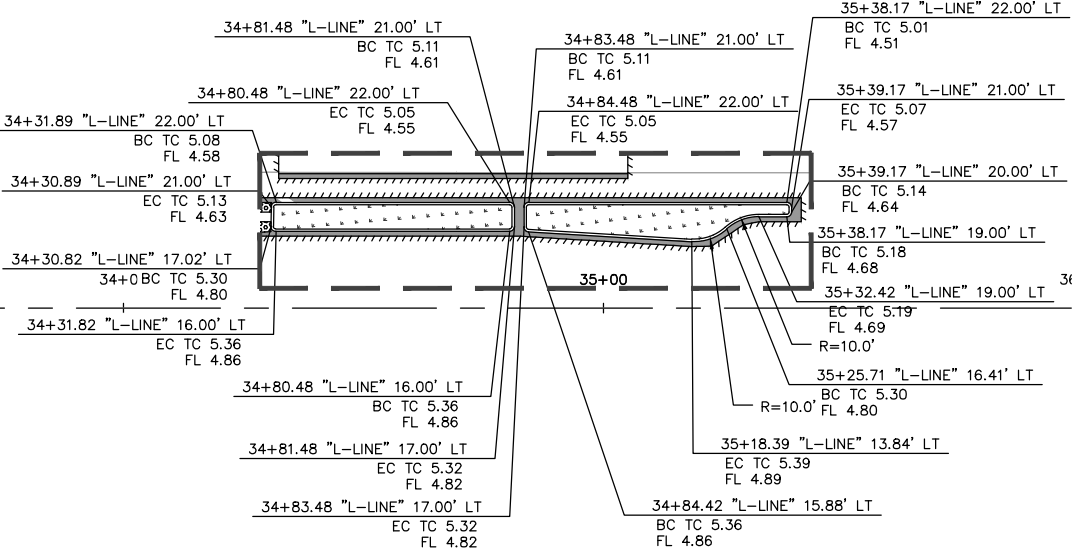
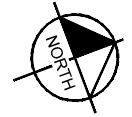
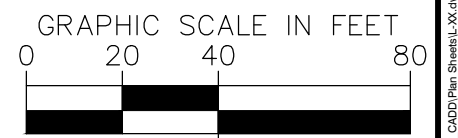
MATCHLINE SEE L-04

MATCHLINE SEE L-06

CONSTRUCTION NOTES

- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01




DETAIL 4

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PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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Oakland, California 94612 Fax No. (916)608-0885

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

PROJECT NO.
1007299

SCALE:
AS SHOWN

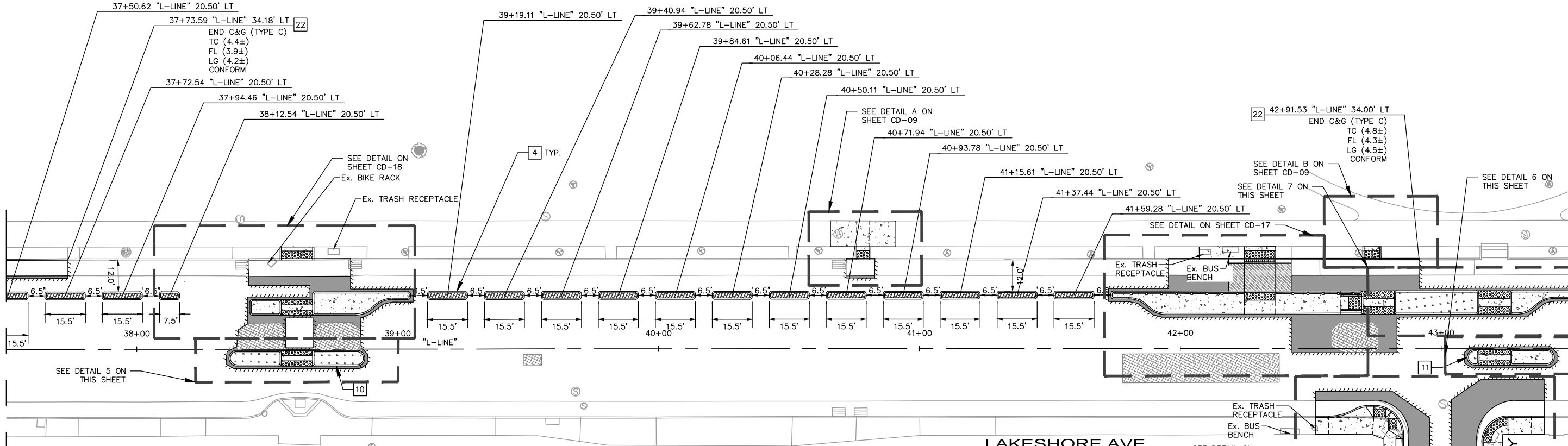
SHEET NO.
L-05
23 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\100709299 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

MATCHLINE SEE L-05

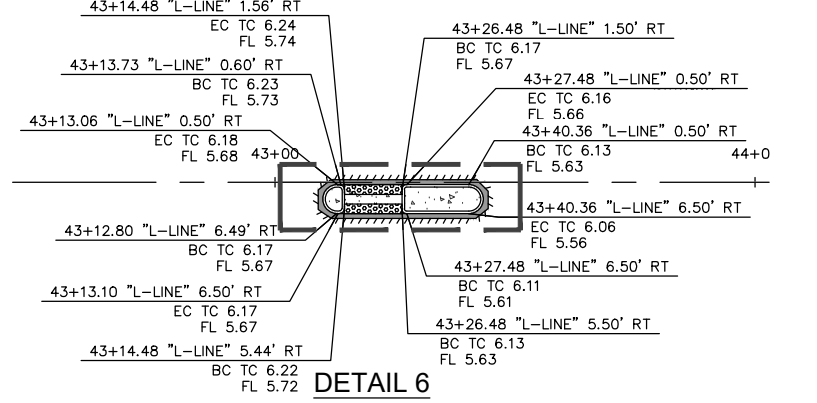
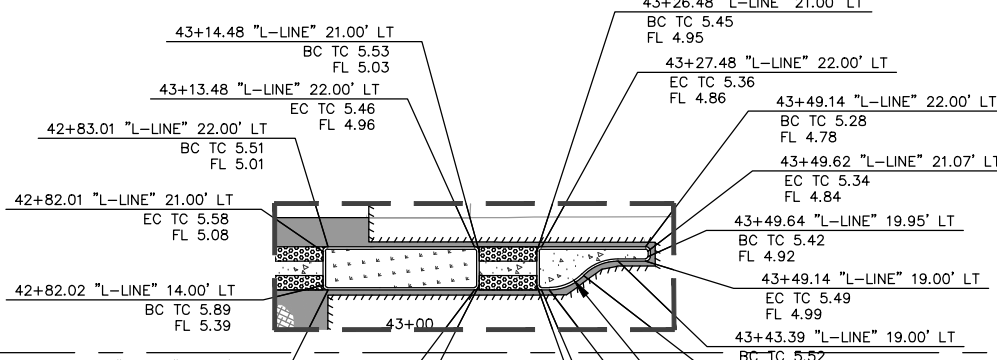
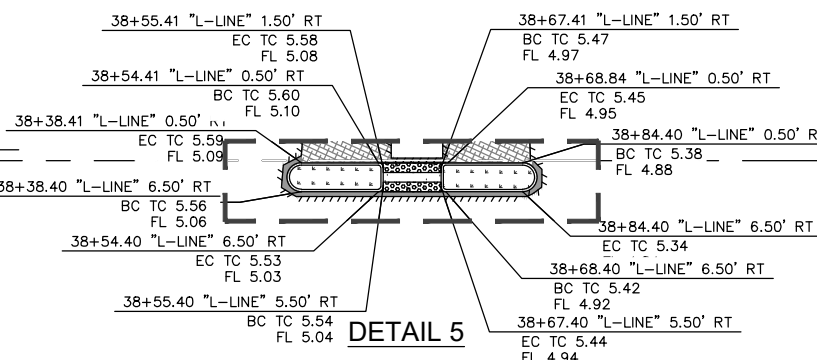
MATCHLINE SEE L-07



LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
- BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
- HMA PAVEMENT (12" DEPTH)
- PROPOSED LANDSCAPE AREA
- RAISED ISLAND WITH DOWEL CURB
- RAISED CROSSWALK
- HMA (TYPE A) OVERLAY (6" MAX)
- CHANNEL DRAIN (SEE DD-01)
- GRADE BREAK
- SAWCUT LIMITS
- LEAN RAIL

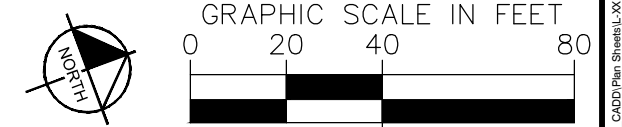
100% SUBMITTAL NOT FOR BID OR CONSTRUCTION



CONSTRUCTION NOTES

- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 10 INSTALL PEDESTRIAN REFUGE ISLAND PER DETAIL D ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 11 INSTALL PEDESTRIAN REFUGE ISLAND PER DETAIL E ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01



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PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

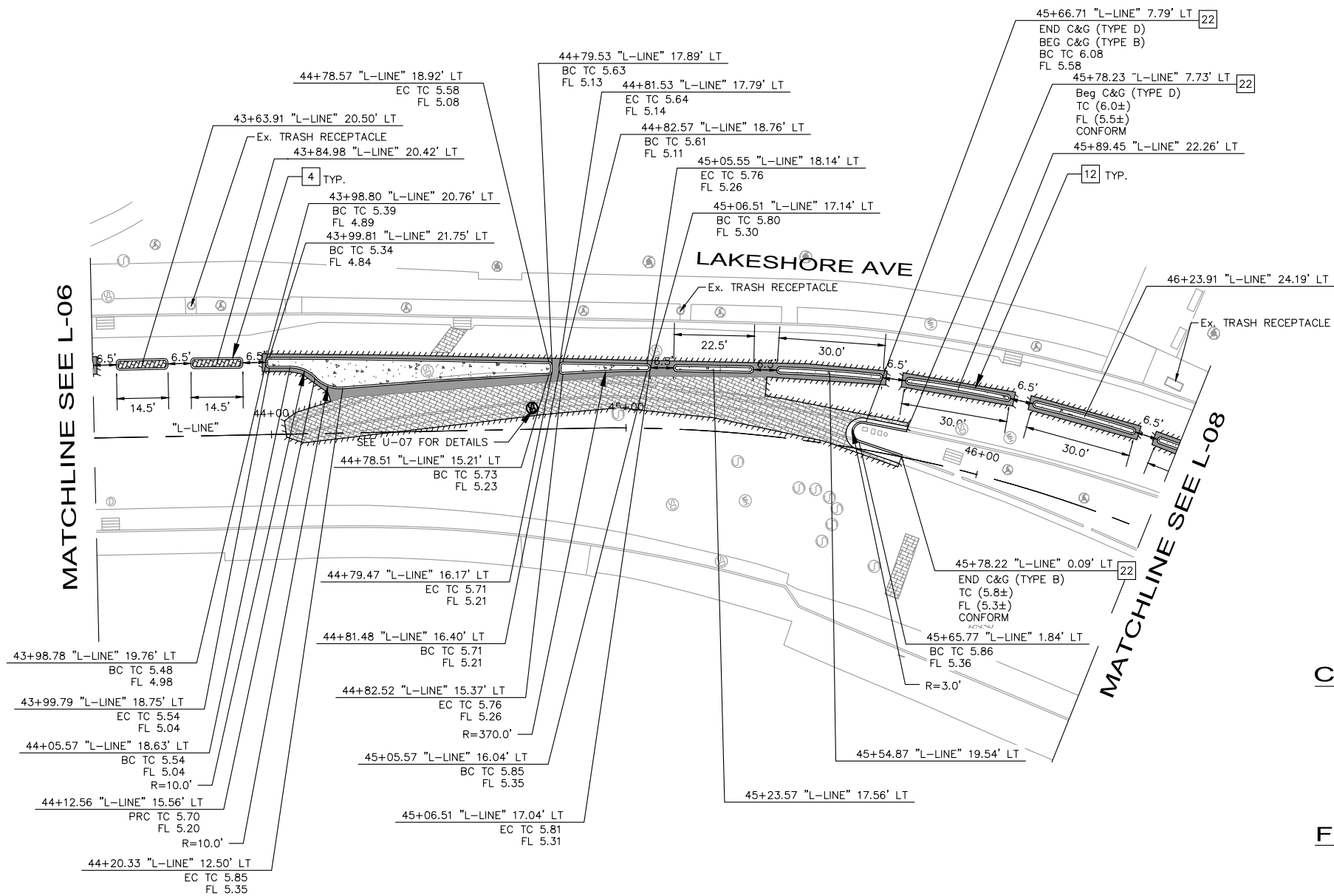
No.	DATE	BY	REFERENCE

LAYOUT

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. L-06
 DATE: 12/11/2024 24 OF 83

DRAWING NAME: K:\OAK_RDWY\1007299\1007299-04_Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\L-XX.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



CONSTRUCTION NOTES

- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 12 INSTALL RAISED ISLAND PER DETAIL F ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

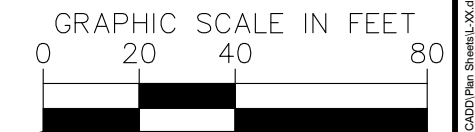
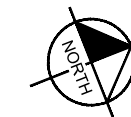
FOR NOTES SEE SHEET L-01

LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
-

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

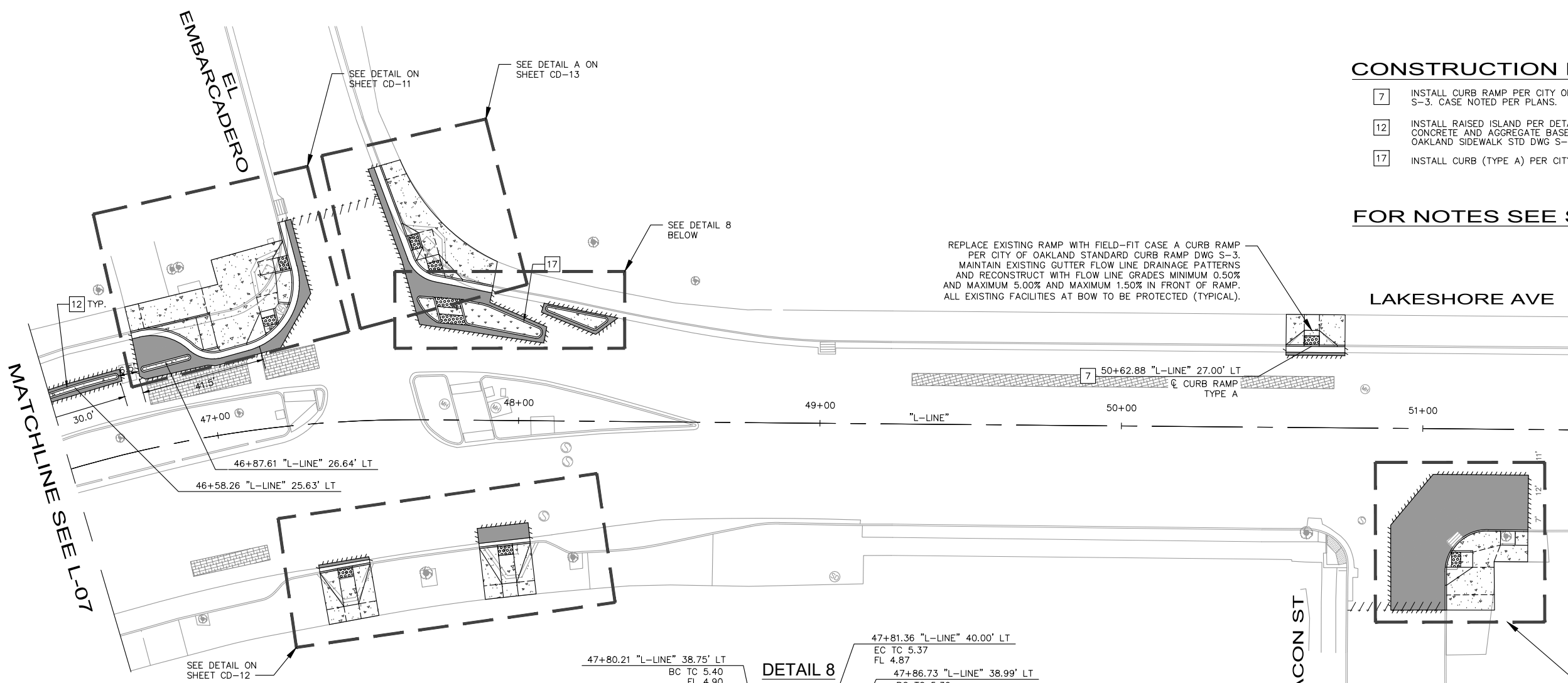
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
L-07
25 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

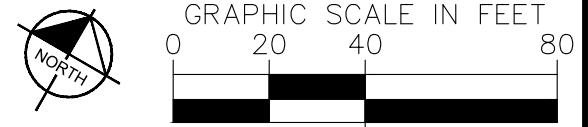
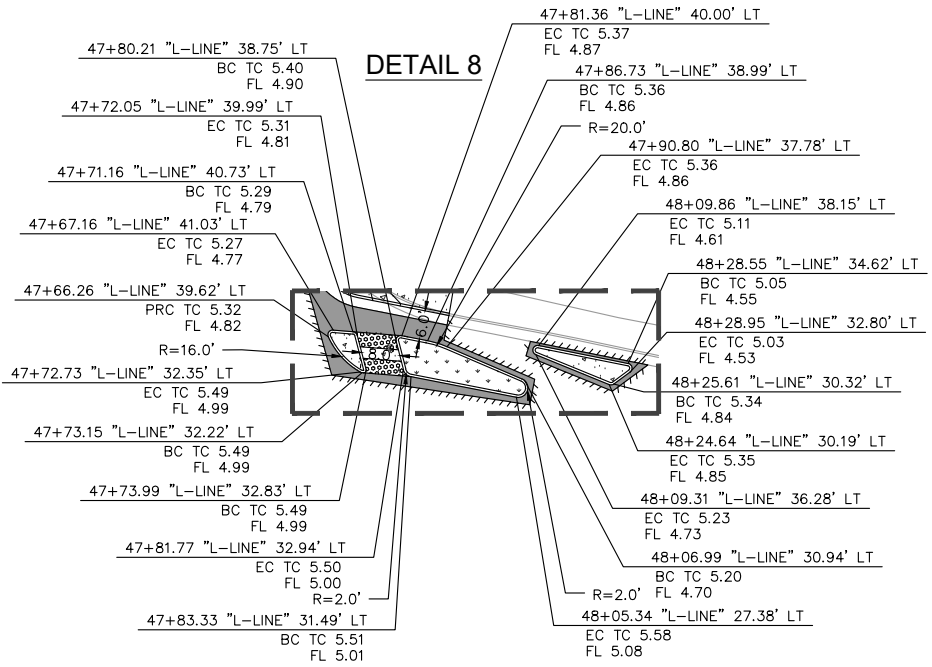


- ### CONSTRUCTION NOTES
- 7 INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
 - 12 INSTALL RAISED ISLAND PER DETAIL F ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
 - 17 INSTALL CURB (TYPE A) PER CITY OF OAKLAND STD DWG S-1.

FOR NOTES SEE SHEET L-01

REPLACE EXISTING RAMP WITH FIELD-FIT CASE A CURB RAMP PER CITY OF OAKLAND STANDARD CURB RAMP DWG S-3. MAINTAIN EXISTING GUTTER FLOW LINE DRAINAGE PATTERNS AND RECONSTRUCT WITH FLOW LINE GRADES MINIMUM 0.50% AND MAXIMUM 5.00% AND MAXIMUM 1.50% IN FRONT OF RAMP. ALL EXISTING FACILITIES AT BOW TO BE PROTECTED (TYPICAL).

- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 -



PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

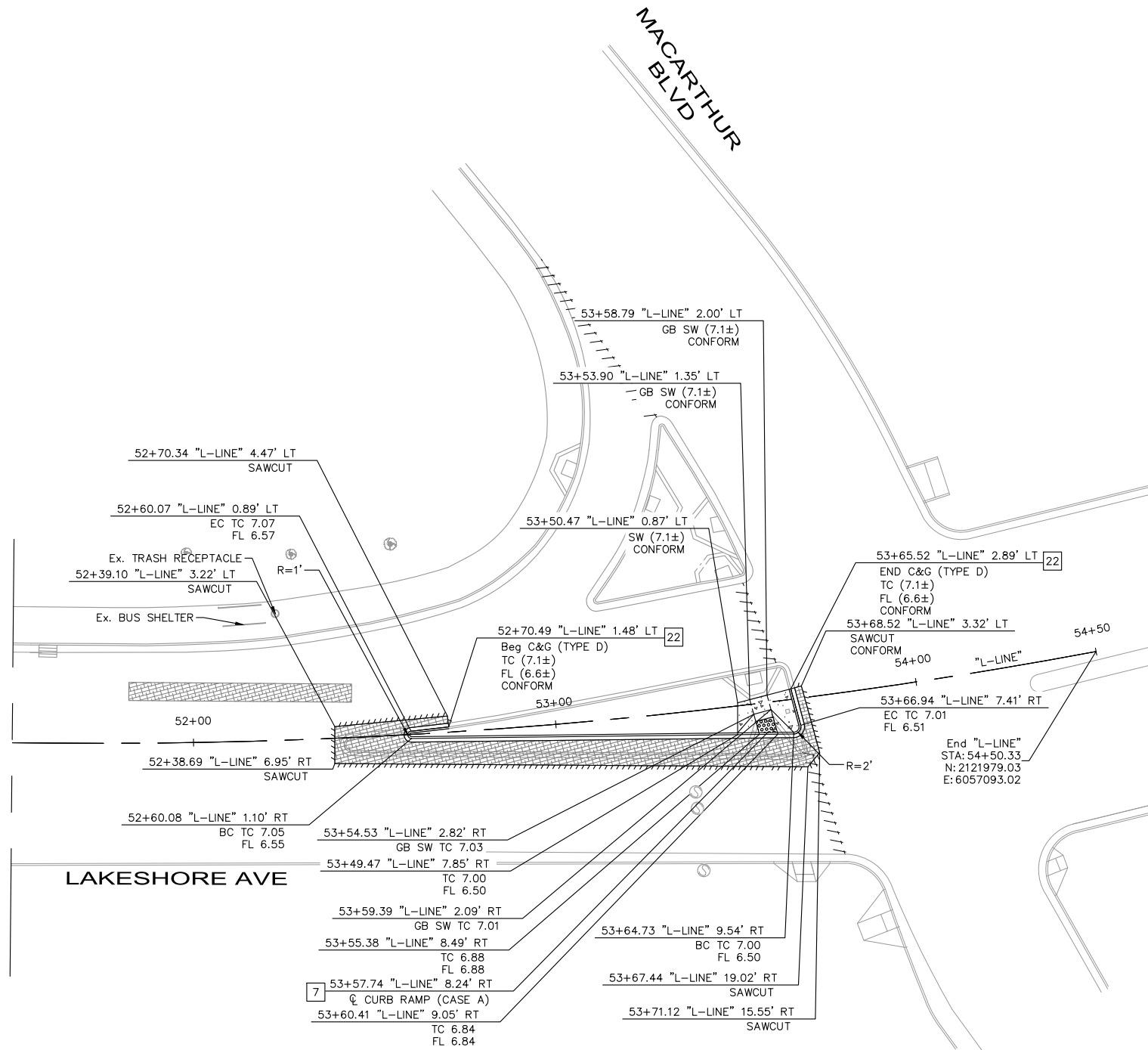
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 DATE: 12/11/2024

PROJECT NO.
1007299













SHEET NO.
L-08
 26 OF 83

DRAWING NAME: K:\OAK_RDW\100708294 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\L-XX.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal

MATCHLINE SEE L-08



LEGEND

-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A). SEE PAVING PLANS FOR MORE INFORMATION.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK
-  HMA (TYPE A) OVERLAY (6" MAX)
-  CHANNEL DRAIN (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  LEAN RAIL

CONSTRUCTION NOTES

- [7] INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- [22] INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

FOR NOTES SEE SHEET L-01



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PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

LAYOUT

PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
L-09
27 OF **83**













DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08709294 - Lakeshore Ave Cycle Trace\04_CADD\Plan_Sheets\L-XX.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya.Pallivathucal




GENERAL NOTES:

1. ALL LOCATIONS WHERE R/W IS NOT IDENTIFIED OR DOES NOT COVER LIMITS OF IMPROVEMENTS, EXISTING BACK OF WALK SHALL BE ASSUMED AS RIGHT OF WAY LIMITS.
2. CONTRACTOR SHALL SAWCUT TO A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO ADJACENT SURFACE MATERIAL TO REMAIN MUST BE REPAIRED OR REPLACED TO CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
3. CONFORM SIDEWALK, CURB, AND GUTTER AT NEAREST SCOREMARK OR EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD.
4. PROPOSED BACK OF WALK HORIZONTAL ALIGNMENT TO MATCH EXISTING, UNLESS OTHERWISE SHOWN ON THESE PLANS.
5. ALL EXISTING GRADES AT LIMITS OF WORK LABELED AS CONFORM SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND ANY CONFLICT SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. GUTTER CROSS SLOPE AT BOTTOM OF RAMP OR BLENDED TRANSITIONS SHALL NOT EXCEED 5%.
7. ALL CROSSWALKS SLOPE SHOULD NOT EXCEED 5% MAX IN THE DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE.
8. CONTRACTOR TO VERIFY ALL DEPTHS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND THE RESOLUTION SHALL BE APPROVED BY BOTH THE CITY AND ENGINEER PRIOR TO CONTINUING CONSTRUCTION ACTIVITIES.
9. SEE DRAINAGE AND UTILITY PLANS FOR UTILITIES THAT SHOULD BE ADJUSTED TO GRADE. EXISTING UTILITY BOXES AND COVERS SHALL BE ADJUSTED TO BE FLUSH WITH THE CURB RAMP, SIDEWALK, AND PAVEMENT SURFACE. ALL OTHER UTILITY PIPES, DUCTS, BOXES, VAULTS, AND STRUCTURE SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE SHOWN.
10. ALL CONCRETE ISLAND CURB CORNERS TO BE ROUNDED USING 1' RADIUS, UNLESS OTHERWISE SHOWN ON THESE PLANS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK AND MONUMENTATION. IF A BENCHMARK OR MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENT AT THE CONTRACTOR'S EXPENSE.
12. PROPOSED CURB AND GUTTER SHALL BE DOWELED WITH #4 DOWEL TO EXISTING CURB AND GUTTER AT ALL CONFORM LOCATIONS.
13. FOR PAVEMENT STRUCTURAL SECTIONS, SEE TYPICAL CROSS SECTIONS SHEETS AND PAVING PLANS.
14. FOR GRADING DETAILS AND LAYOUT INFORMATION NOT SHOWN, SEE CONSTRUCTION DETAIL SHEETS.
15. FOR SIGNING AND STRIPING IMPROVEMENTS, SEE SIGNAGE AND STRIPING PLANS.
16. FOR TRAFFIC SIGNAL IMPROVEMENTS, SEE ELECTRICAL PLANS.

LEGEND

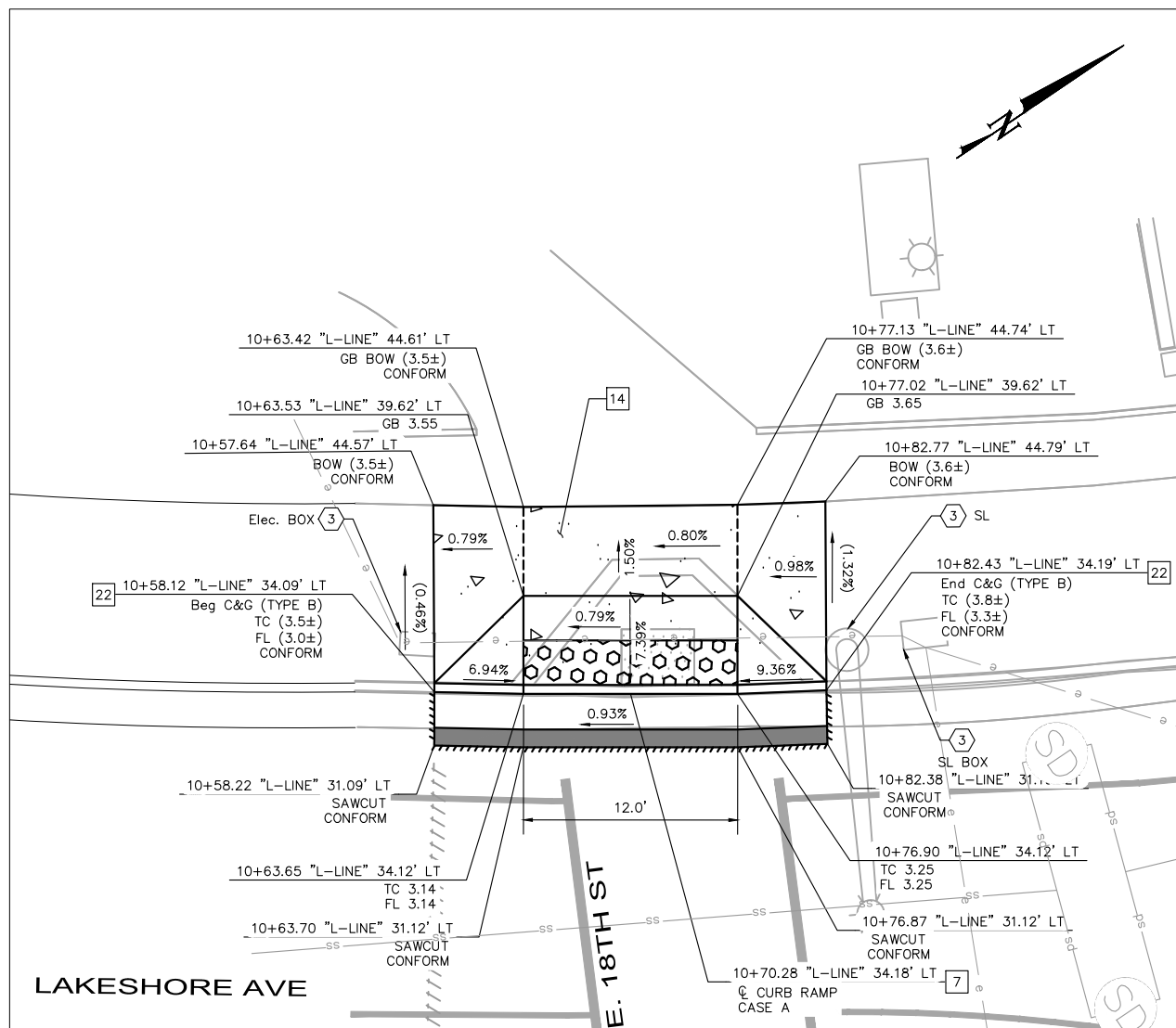
-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
-  TRENCH GRATE (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  Exist SLOPE
-  PROPOSED SLOPE

CONSTRUCTION NOTES

-  INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
-  INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
-  INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

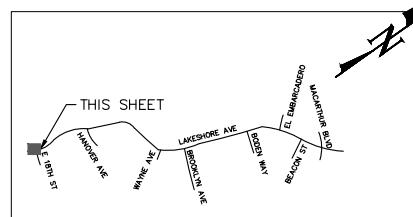
UTILITY AND DEMOLITION NOTES

-  PROTECT IN PLACE.



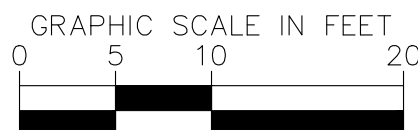
**LAKESHORE AVE & E. 18TH ST
CURB RAMP DETAILS (NORTHWEST CORNER)**

SEE SHEET L-01
SCALE 1"=10'



KEY MAP

100% SUBMITTAL
NOT FOR BID OR
CONSTRUCTION



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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DESIGNED BY JORGE MORALES
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

PROJECT NO.
1007299













SCALE:
AS SHOWN

SHEET NO.
CD-01
28 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK\RDWY\02062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-01.dwg
PLOT DATE: 12/11/24
PLOTTED BY: Priya Pallivathucal

LEGEND

-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
-  TRENCH GRATE (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  Exist SLOPE
-  PROPOSED SLOPE

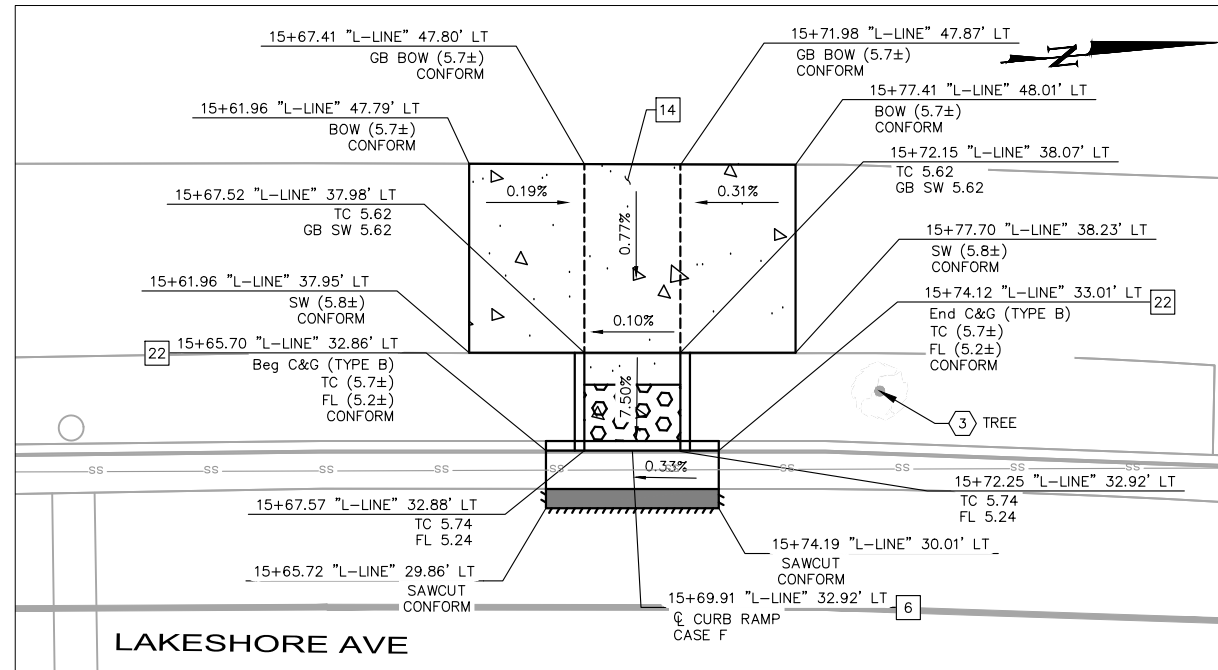
FOR GENERAL NOTES SEE SHEET CD-01

CONSTRUCTION NOTES

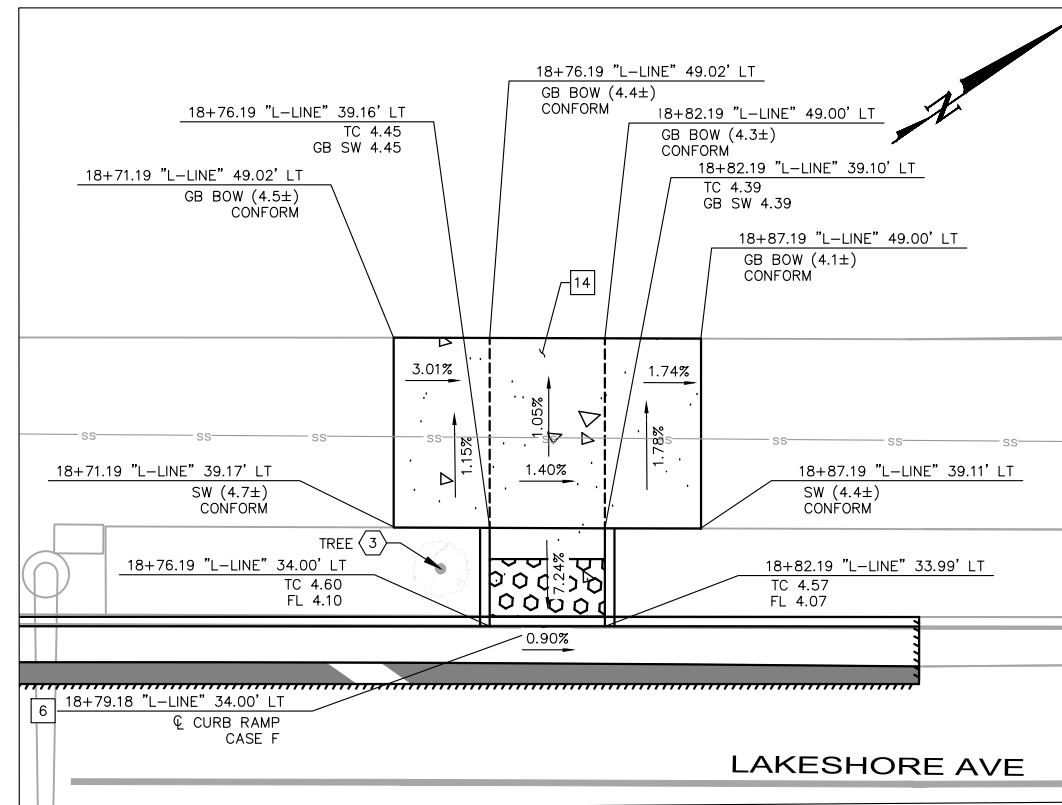
- 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

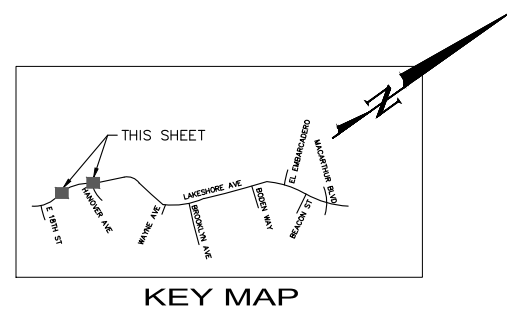
- 3 PROTECT IN PLACE.



**DETAIL A
LAKESHORE AVE**
SEE SHEET L-02
SCALE 1"=10'

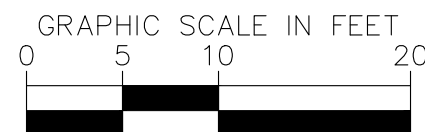


**DETAIL B
LAKESHORE AVE & HANOVER AVE
CURB RAMP DETAILS (NORTHWEST CORNER)**
SEE SHEET L-02
SCALE 1"=10'



KEY MAP

100% SUBMITTAL
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CONSTRUCTION



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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Oakland, California 94612 Fax No. (916)608-0885

CHECKED BY RYAN DOLE, P.E.
DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

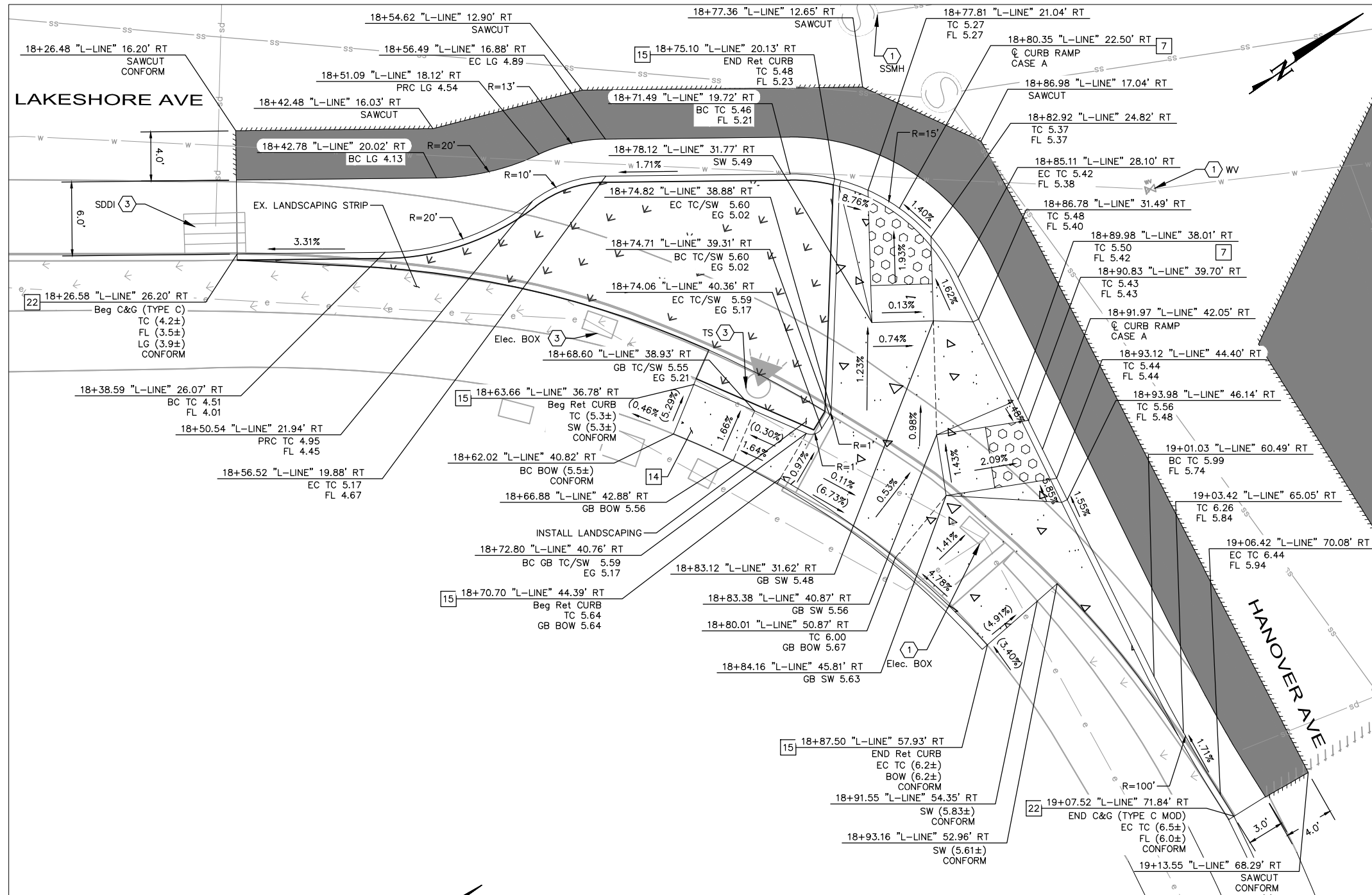
**CONSTRUCTION
DETAILS
CURB RAMP**

PROJECT NO.
1007299

SCALE:
AS SHOWN

DATE: 12/11/2024

SHEET NO.
CD-02
29 OF **83**



- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 -

SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

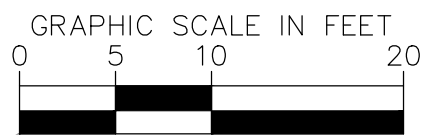
- 7 INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 15 INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

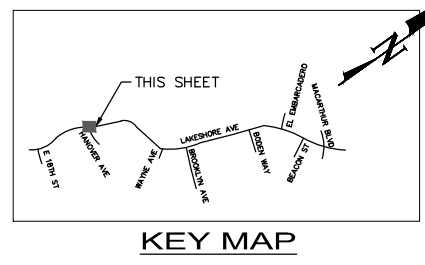
- 1 ADJUST TO GRADE.
- 3 PROTECT IN PLACE.

LAKESHORE AVE & HANOVER AVE CURB EXTENSION AND RAMP DETAILS (SOUTHWEST CORNER)

SEE SHEET L-02
SCALE 1"=10'



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS CURB RAMP

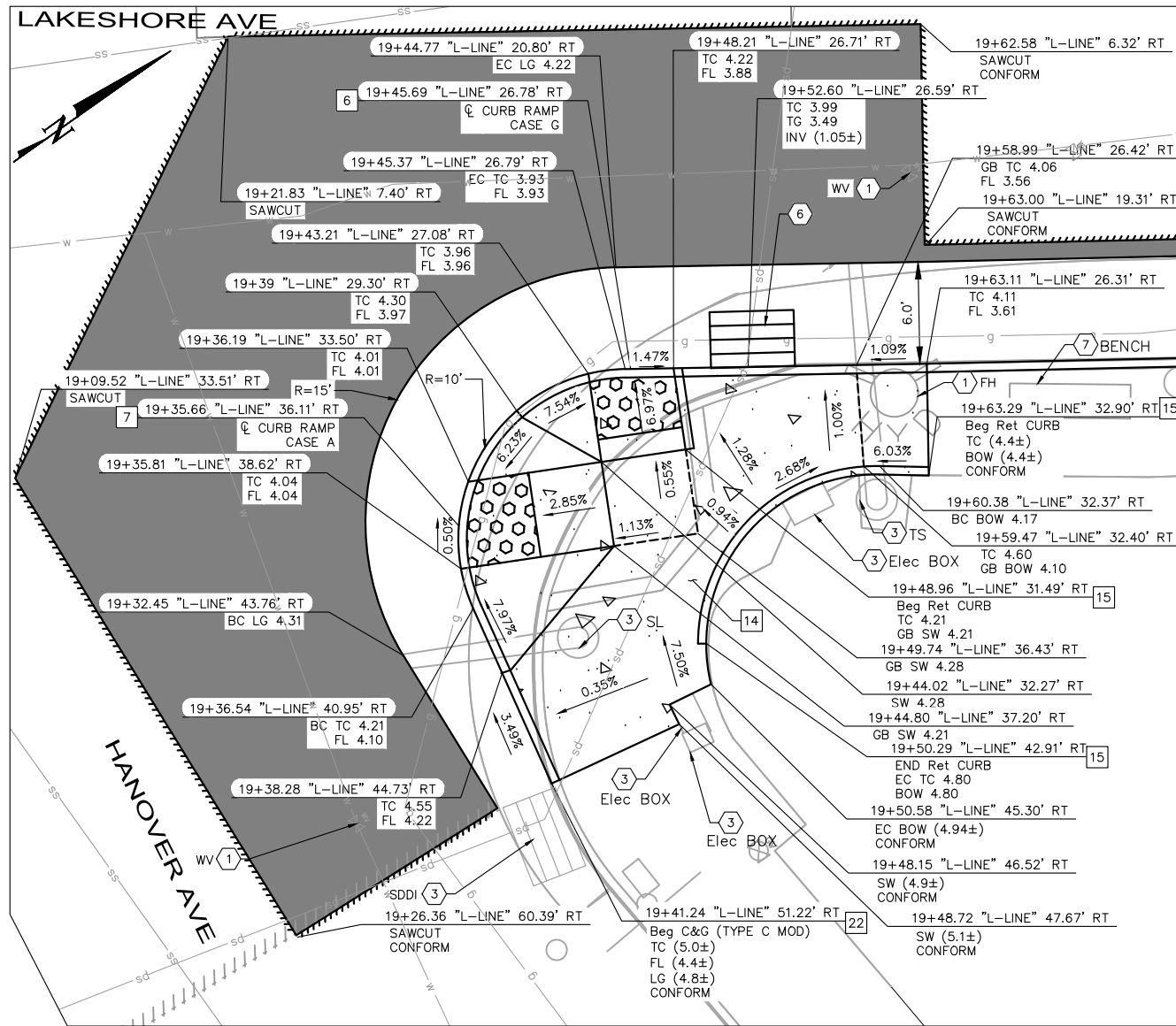
PROJECT NO. **1007299**

SCALE: AS SHOWN

SHEET NO. CD-03
30 OF **83**

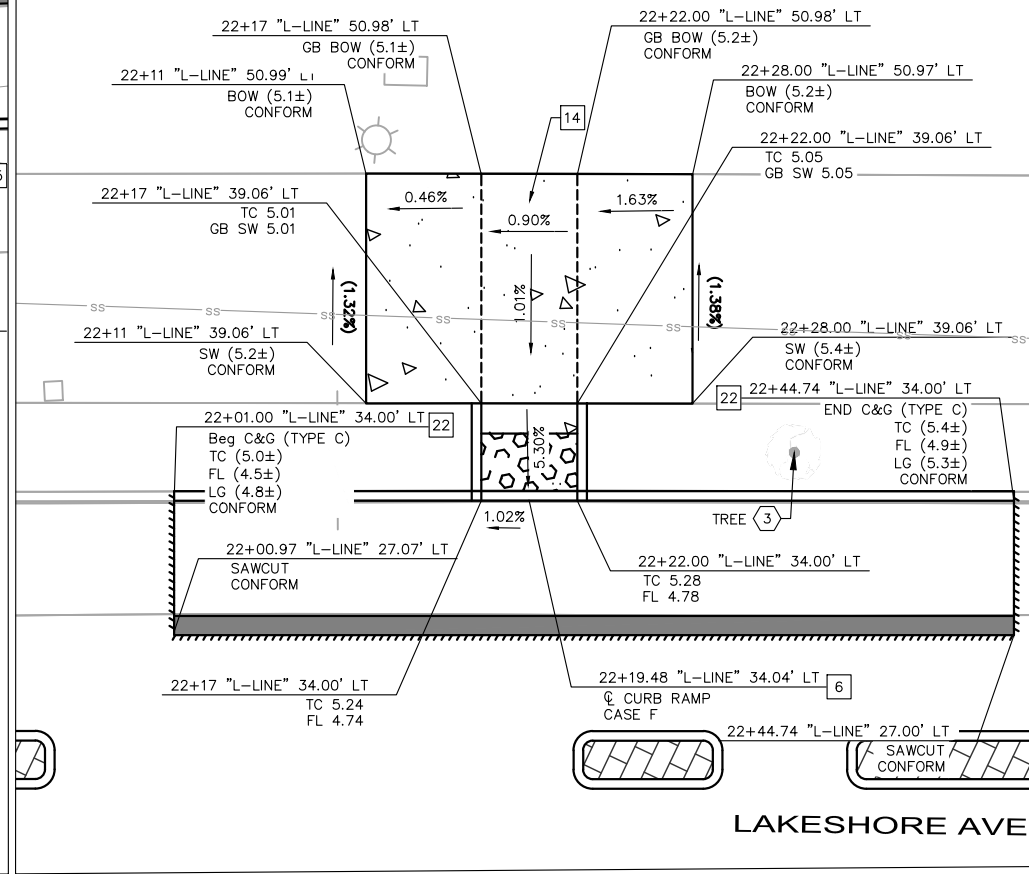
DATE: 12/11/2024

DRAWING NAME: K:\OAK_BDWY\07082024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



DETAIL A
LAKESHORE AVE & HANOVER AVE
CURB EXTENSION AND RAMP DETAILS (SOUTHEAST CORNER)

SEE SHEET L-02
 SCALE 1"=10'



DETAIL B
LAKESHORE AVE
CURB RAMP DETAILS

SEE SHEET L-03
 SCALE 1"=10'

LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
- BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
- HMA PAVEMENT (12" DEPTH)
- PROPOSED LANDSCAPE AREA
- RAISED ISLAND WITH DOWEL CURB
- RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
- TRENCH GRATE (SEE DD-01)
- GRADE BREAK
- SAWCUT LIMITS
- Exist SLOPE
- PROPOSED SLOPE

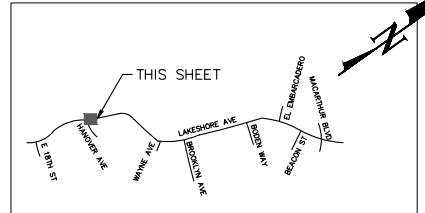
SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

- 6** INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN AB8A. CASE NOTED PER PLANS.
- 7** INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- 14** INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 15** INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
- 22** INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

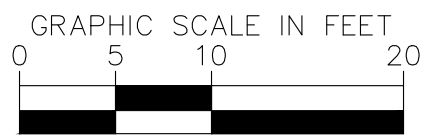
UTILITY AND DEMOLITION NOTES

- 1** ADJUST TO GRADE.
- 3** PROTECT IN PLACE.
- 6** REMOVE AND REPLACE STORM DRAIN INLET.
- 7** REMOVE AND RELOCATE. CONTRACTOR TO INSTALL AND COORDINATE FINAL LOCATION WITH ENGINEER.



KEY MAP

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PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS
CURB RAMP

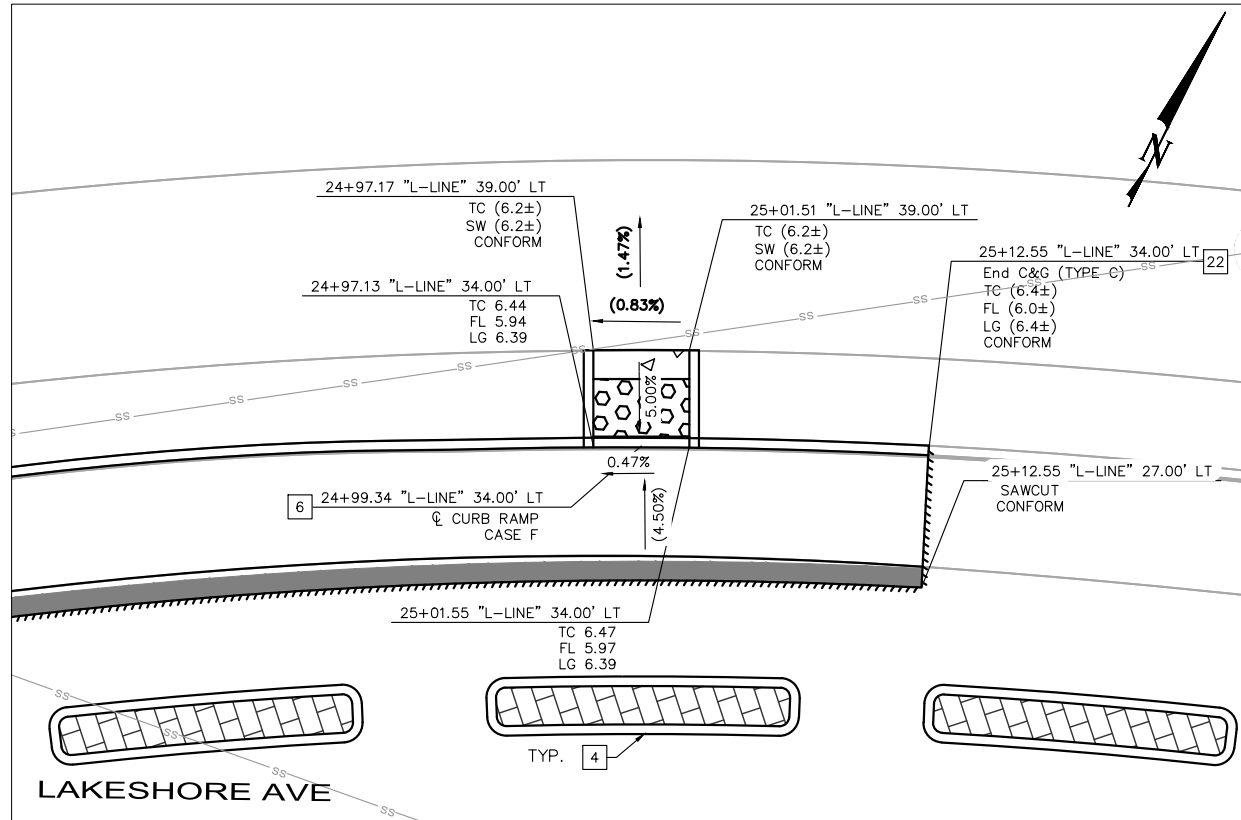
PROJECT NO. **1007299**

SCALE: AS SHOWN

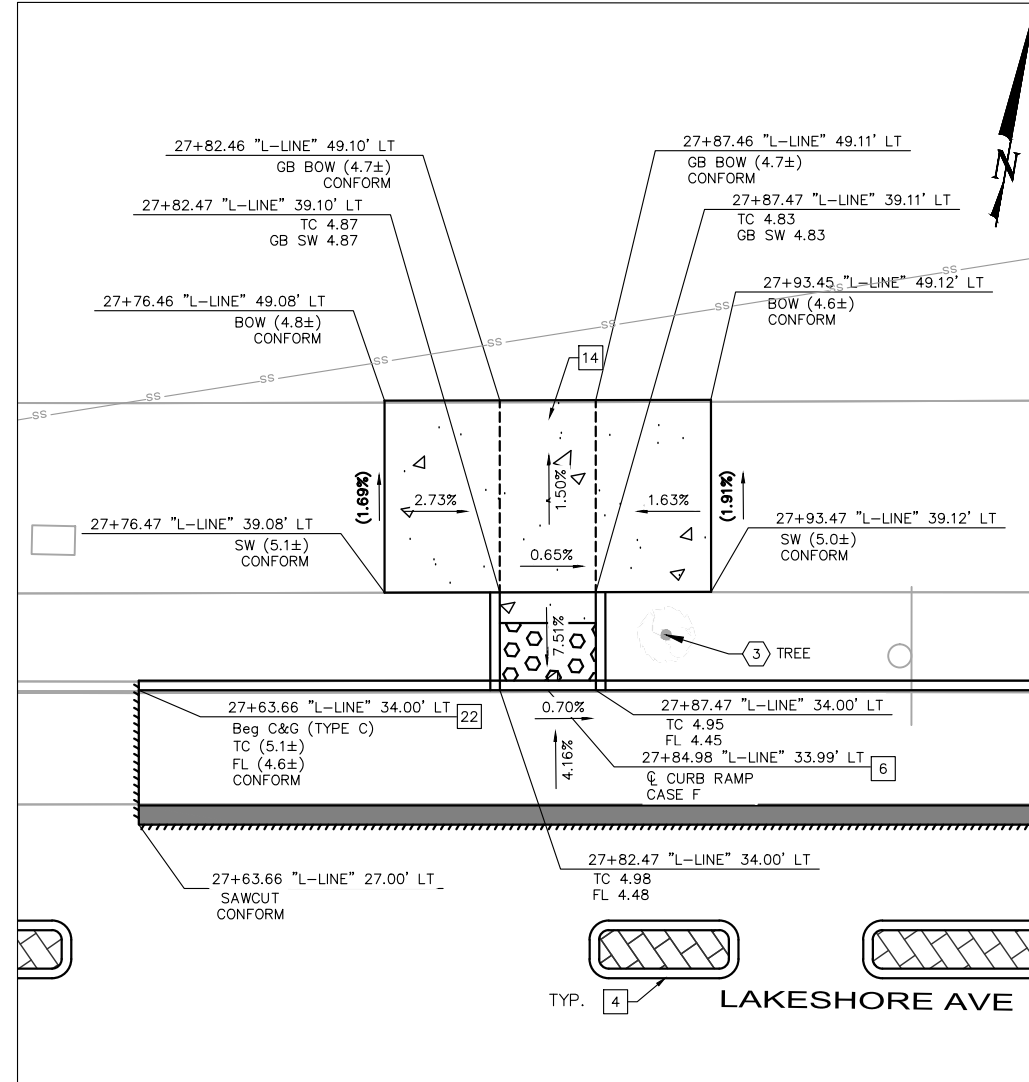
SHEET NO. **CD-04**
31 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK\RD\WY\02062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-01.dwg
 12:11:24
 PLOT DATE: Priya Pallivathucal
 PLOTTED BY:



DETAIL A
LAKESHORE AVE
CURB RAMP DETAILS
 SEE SHEET L-03
 SCALE 1"=10'



DETAIL B
LAKESHORE AVE
CURB RAMP DETAILS
 SEE SHEET L-04
 SCALE 1"=10'

LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
- BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
- HMA PAVEMENT (12" DEPTH)
- PROPOSED LANDSCAPE AREA
- RAISED ISLAND WITH DOWEL CURB
- RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
- TRENCH GRATE (SEE DD-01)
- GRADE BREAK
- SAWCUT LIMITS
- EXIST SLOPE
- PROPOSED SLOPE

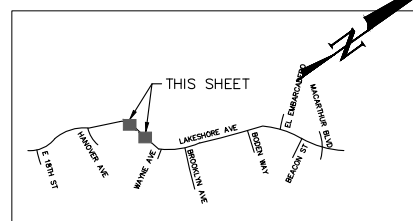
SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

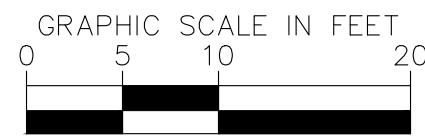
UTILITY AND DEMOLITION NOTES

- 3 PROTECT IN PLACE.



KEY MAP

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PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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 DEPARTMENT OF TRANSPORTATION
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 OAKLAND, CA 94612
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
 DETAILS
 CURB RAMP**

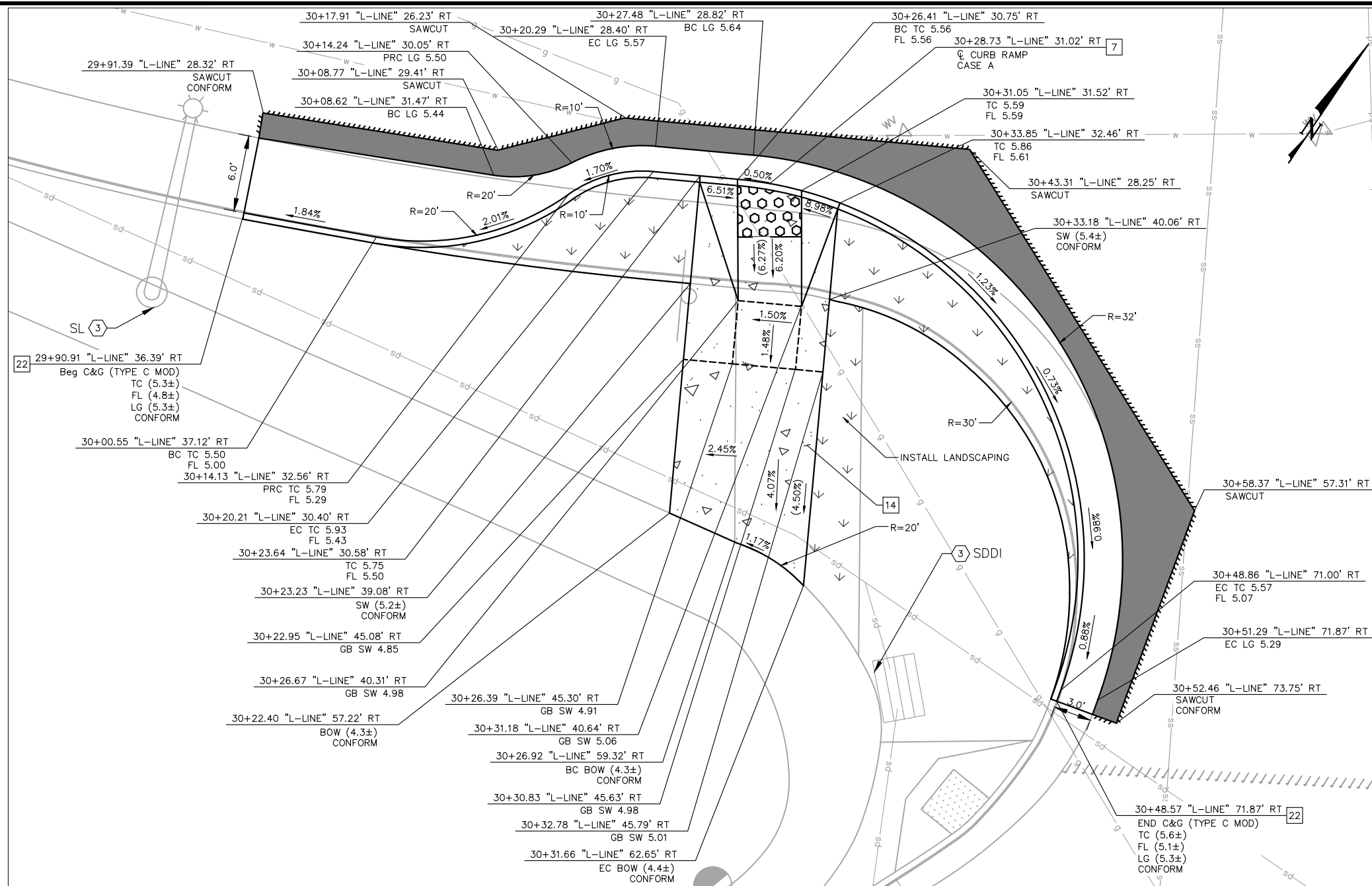
PROJECT NO.
1007299

SCALE:
 AS SHOWN

SHEET NO.
 CD-05
32 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\07062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-01.dwg
 PLOT DATE: 12/11/24
 PLOTTED BY: Priya Pallivathucal



LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
-

SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

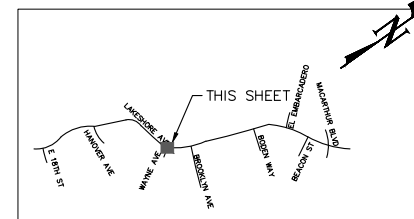
- 7** INSTALL "CASE A" AND "BLENDED TRANSITION" CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- 14** INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 16** INSTALL MODIFIED CURB AND GUTTER (TYPE C) PER CITY OF OAKLAND STD DWG S-1. CURB HEIGHT AS SHOWN ON PLANS.

UTILITY AND DEMOLITION NOTES

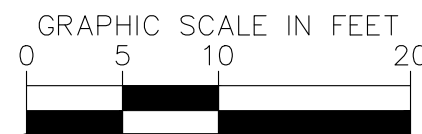
- 1** ADJUST TO GRADE.
- 3** PROTECT IN PLACE.

**LAKESHORE AVE & WAYNE AVE
CURB EXTENSION AND RAMP DETAILS (SOUTHWEST CORNER)**

SEE SHEET L-04
SCALE 1"=10'



KEY MAP



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

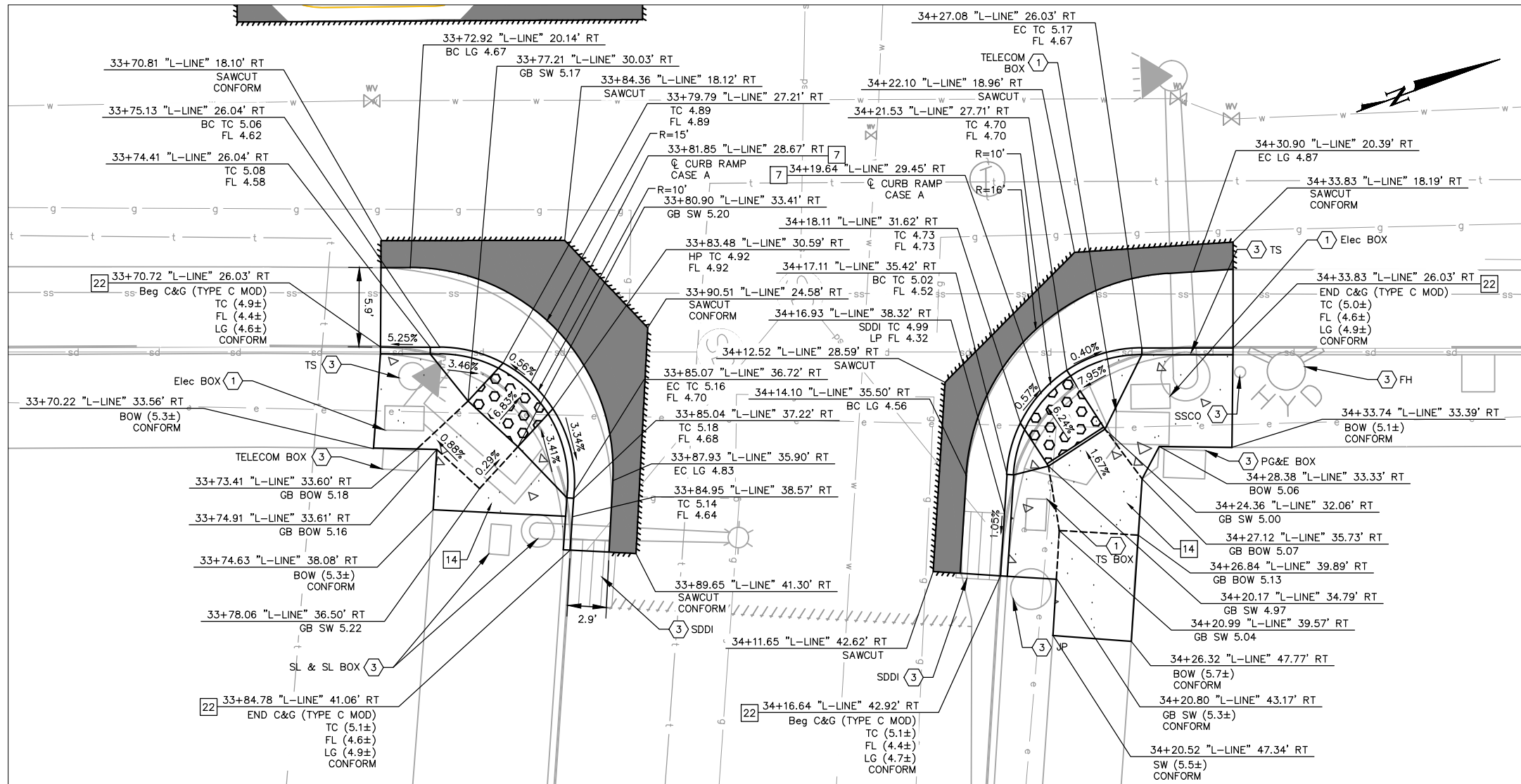
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
CD-06
33 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\07062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-06.dwg
PLOT DATE: 12/11/24
PLOT BY: Priya Pallivathucal



**LAKESHORE AVE & BROOKLYN AVE
CURB RAMP DETAILS (SOUTHWEST AND SOUTHEAST CORNERS)**

SEE SHEET L-05

SCALE 1"=10'

LEGEND

- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
- DETECTABLE WARNING SURFACE
- BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
- HMA PAVEMENT (12" DEPTH)
- PROPOSED LANDSCAPE AREA
- RAISED ISLAND WITH DOWEL CURB
- RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
- TRENCH GRATE (SEE DD-01)
- GRADE BREAK
- SAWCUT LIMITS
- Exist SLOPE
- PROPOSED SLOPE

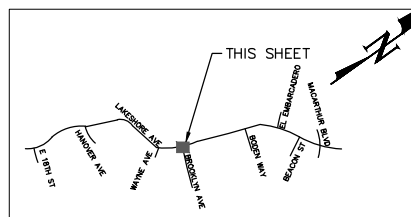
SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

- 7** INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- 14** INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 22** INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

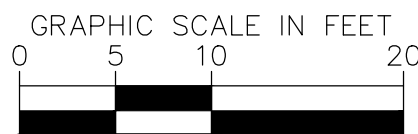
UTILITY AND DEMOLITION NOTES

- 1** ADJUST TO GRADE.
- 3** PROTECT IN PLACE.



KEY MAP

100% SUBMITTAL
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PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

PROJECT NO.
1007299

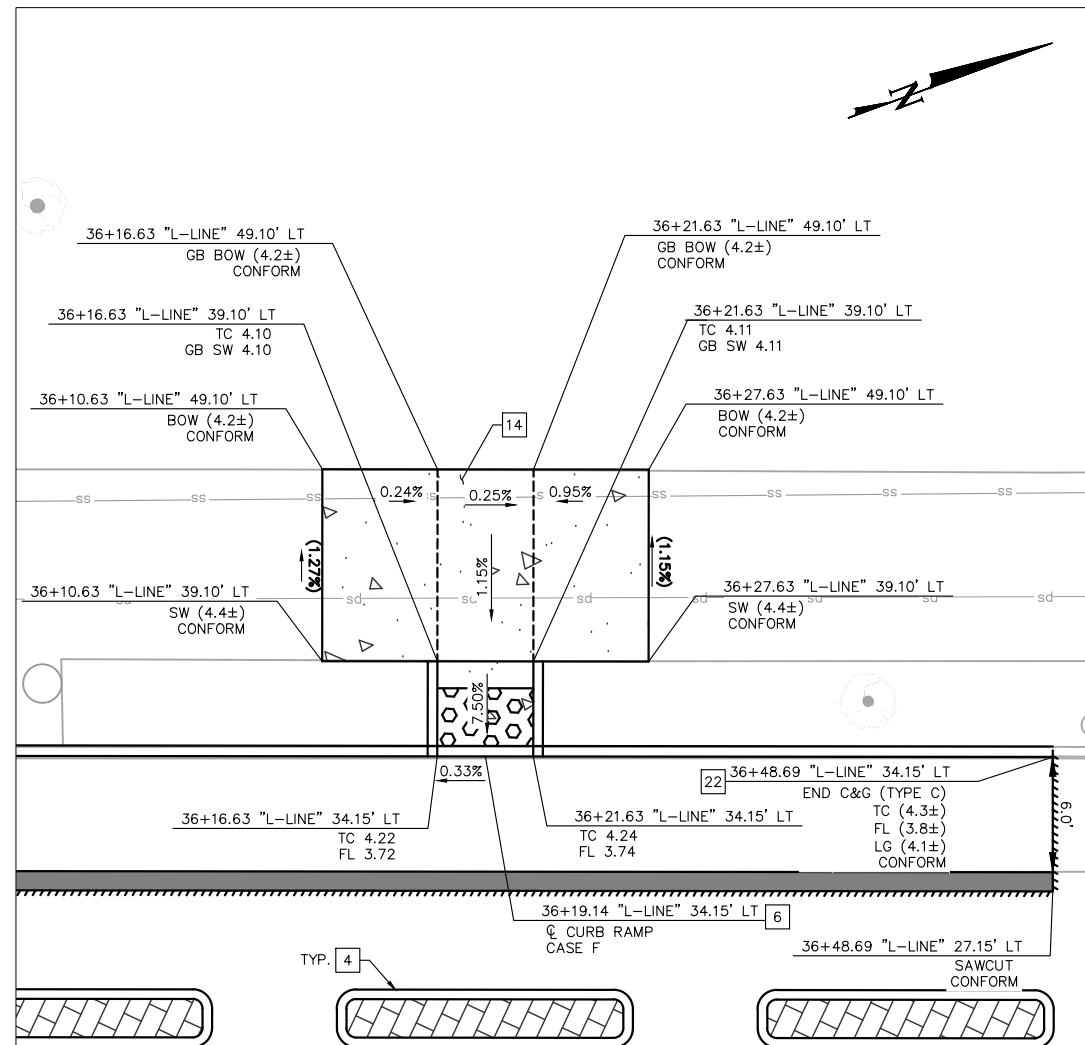
SCALE:
AS SHOWN

DATE: 12/11/2024

SHEET NO.
CD-07

34 OF **83**













DRAWING NAME: K:\OAK_BDWY\07060204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-06.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal



**DETAIL A: LAKESHORE AVE
CURB RAMP DETAILS**

SEE SHEET L-05
SCALE 1"=10'

LEGEND

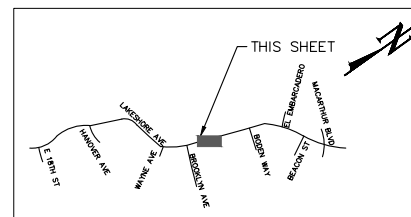
-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
-  TRENCH GRATE (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  Exist SLOPE
-  PROPOSED SLOPE

SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

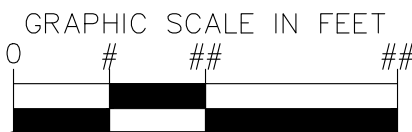
- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES



KEY MAP

100% SUBMITTAL
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CONSTRUCTION



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

Kimley Horn
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Oakland, California 94612 Fax No. (916)608-0885

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

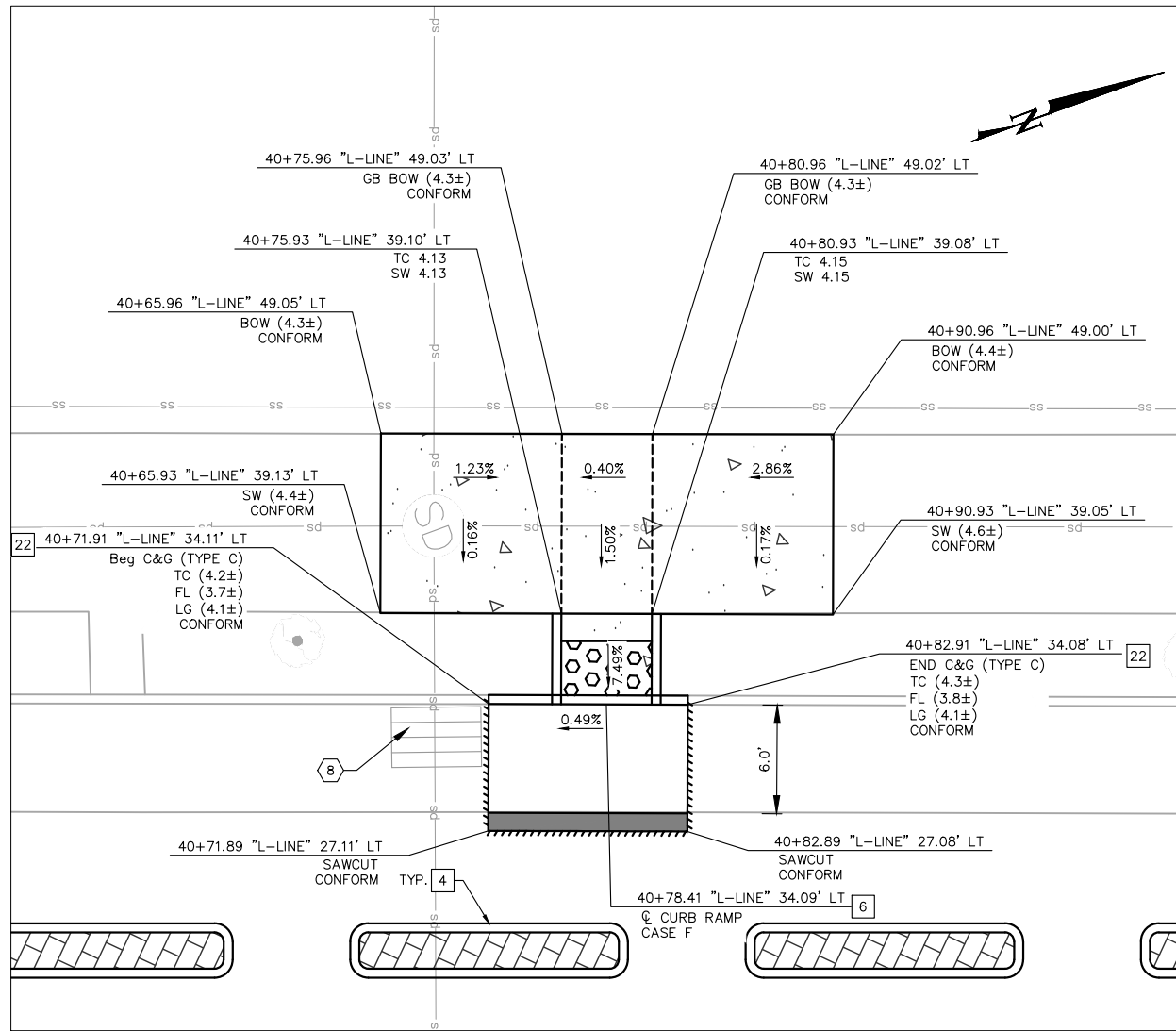
PROJECT NO.
1007299

SCALE:
AS SHOWN

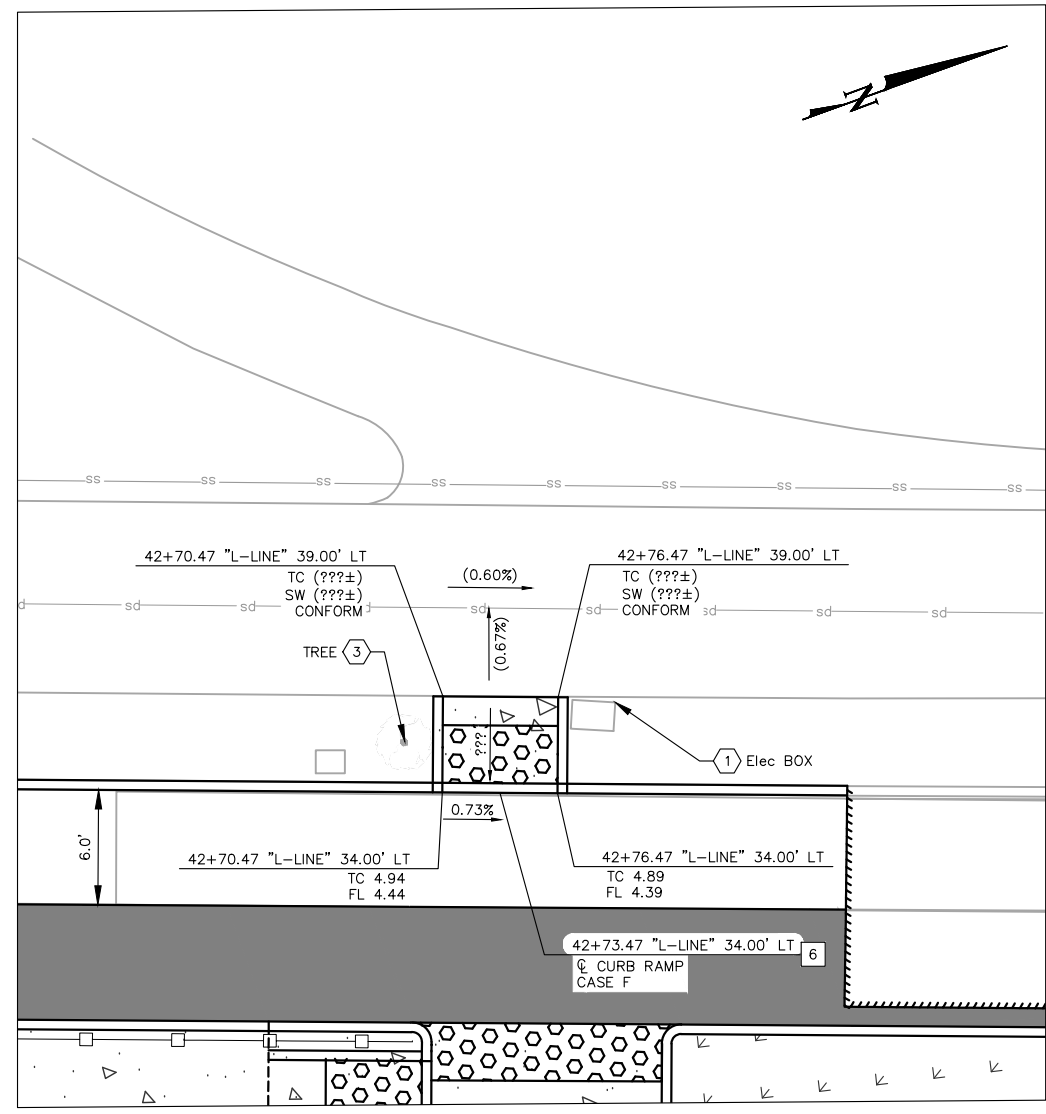
DATE: 12/11/2024

SHEET NO.
CD-08
35 OF **83**

DRAWING NAME: K:\OAK\RDWY\07060204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-08.dwg
PLOT DATE: 12/11/24
PLOTTED BY: Priya Pallivathucal



**DETAIL A: LAKESHORE AVE
CURB RAMP DETAILS**
SEE SHEET L-06
SCALE 1"=10'



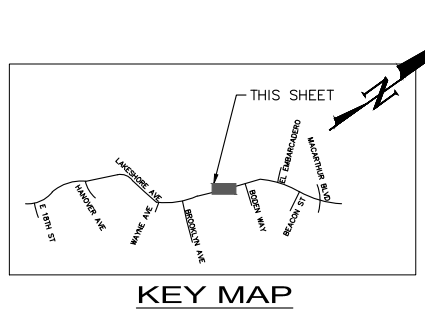
**DETAIL B: LAKESHORE AVE
CURB RAMP DETAILS**
SEE SHEET L-06
SCALE 1"=10'

- LEGEND**
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 - BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
 - HMA PAVEMENT (12" DEPTH)
 - PROPOSED LANDSCAPE AREA
 - RAISED ISLAND WITH DOWEL CURB
 - RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
 - TRENCH GRATE (SEE DD-01)
 - GRADE BREAK
 - SAWCUT LIMITS
 - Exist SLOPE
 - PROPOSED SLOPE

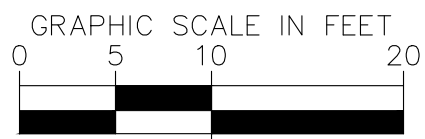
SEE GENERAL NOTES ON SHEET CD-01

- CONSTRUCTION NOTES**
- 4 INSTALL RAISED ISLAND WITH DOWEL CURB PER DETAIL A ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
 - 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
 - 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

- UTILITY AND DEMOLITION NOTES**
- 1 ADJUST TO GRADE.
 - 3 PROTECT IN PLACE.
 - 8 REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.



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PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

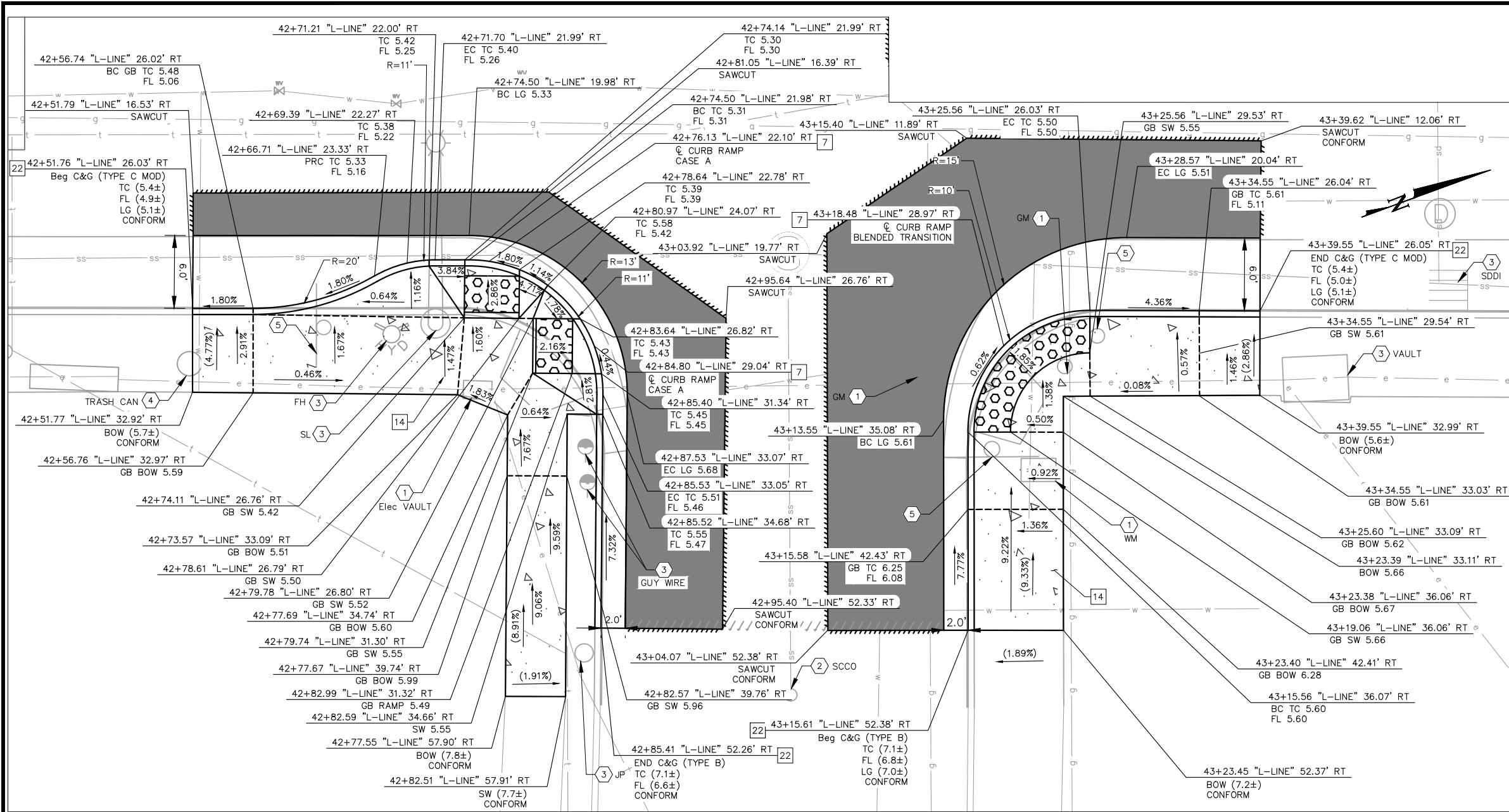
No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. CD-09
DATE: 12/11/2024 36 OF 83

DRAWING NAME: K:\OAK\RDWY\087068204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-06.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal



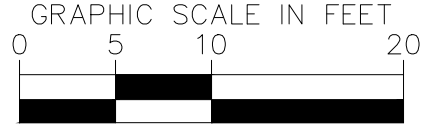
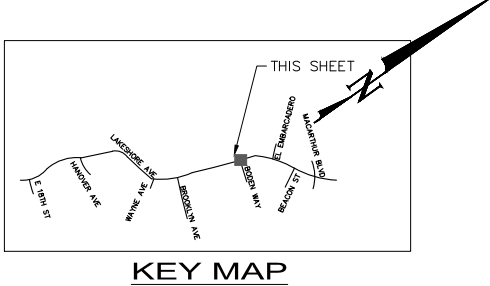
- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 - BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
 - HMA PAVEMENT (12" DEPTH)
 - PROPOSED LANDSCAPE AREA
 - RAISED ISLAND WITH DOWEL CURB
 - RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
 - TRENCH GRATE (SEE DD-01)
 - GRADE BREAK
 - SAWCUT LIMITS
 - Exist SLOPE
 - PROPOSED SLOPE

SEE GENERAL NOTES ON SHEET CD-01

- ### CONSTRUCTION NOTES
- 7 INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
 - 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
 - 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

- ### UTILITY AND DEMOLITION NOTES
- 1 ADJUST TO GRADE.
 - 2 EXISTING TO REMAIN.
 - 3 PROTECT IN PLACE.
 - 4 REMOVE AND RESET IN PLACE.
 - 5 REMOVE AND RESET SIGN AND POST. SEE SS SHEETS FOR MORE DETAILS.

LAKESHORE AVE & BODEN WAY
CURB RAMP DETAILS (SOUTHWEST AND SOUTHEAST CORNERS)
 SEE SHEET L-06
 SCALE 1"=10'



PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

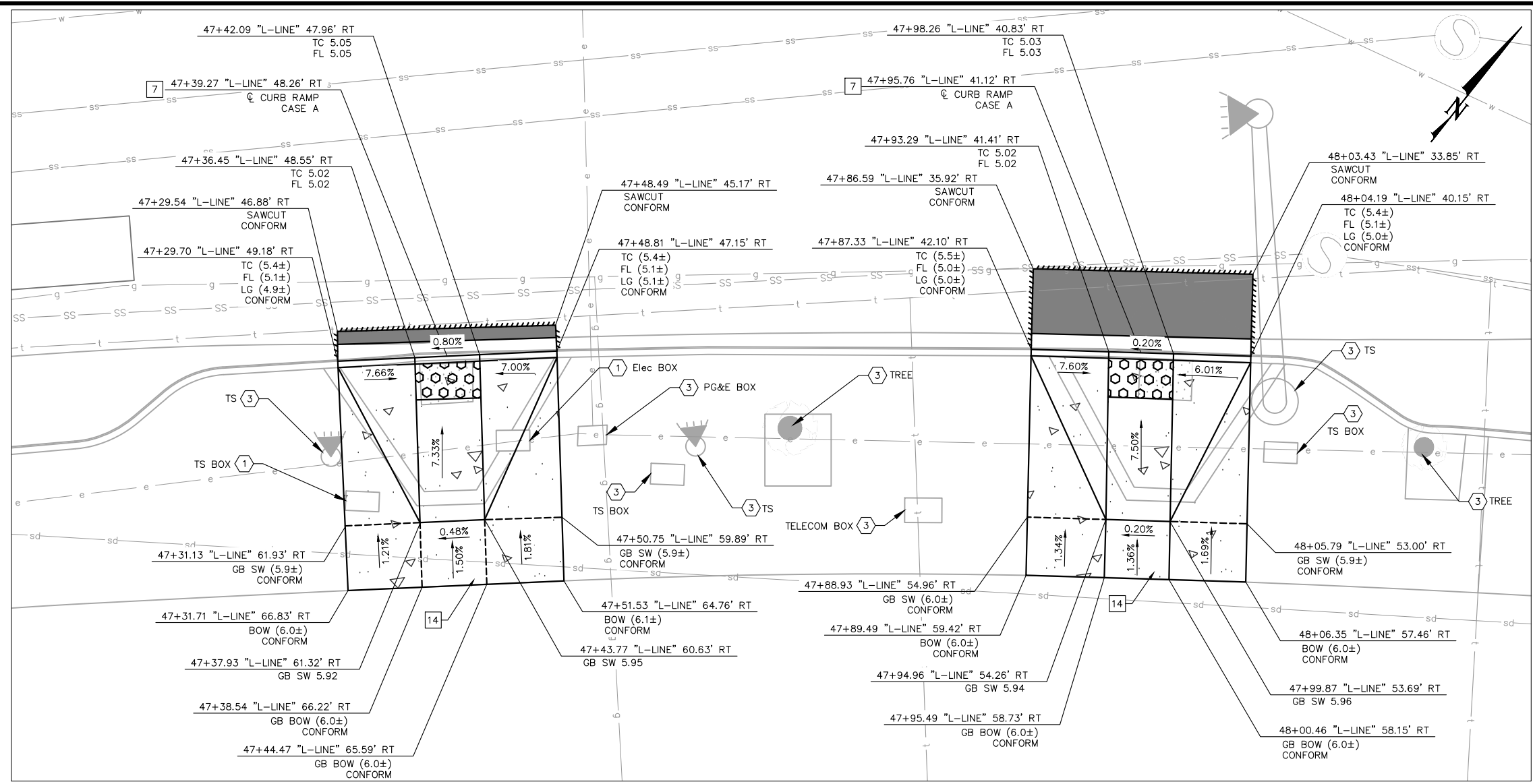
No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS
CURB RAMP

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. CD-10
 DATE: 12/11/2024 37 OF 83

DRAWING NAME: K:\OAK\RD\WY\10706204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-06.dwg
 PLOT DATE: 12/11/24
 PLOTTED BY: Priya Pallivathucal



- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 -

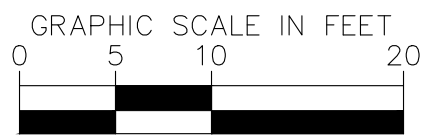
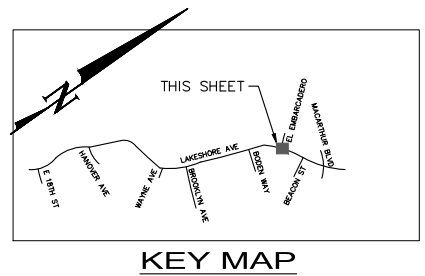
SEE GENERAL NOTES ON SHEET CD-01

- ### CONSTRUCTION NOTES
- 7 INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
 - 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.

- ### UTILITY AND DEMOLITION NOTES
- 1 ADJUST TO GRADE.
 - 3 PROTECT IN PLACE.

**LAKESHORE AVE & EL EMBARCADERO
CURB RAMP DETAILS (SOUTHWEST AND SOUTHEAST CORNERS)**

SEE SHEET L-08
SCALE 1"=10'



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
CURB RAMP**

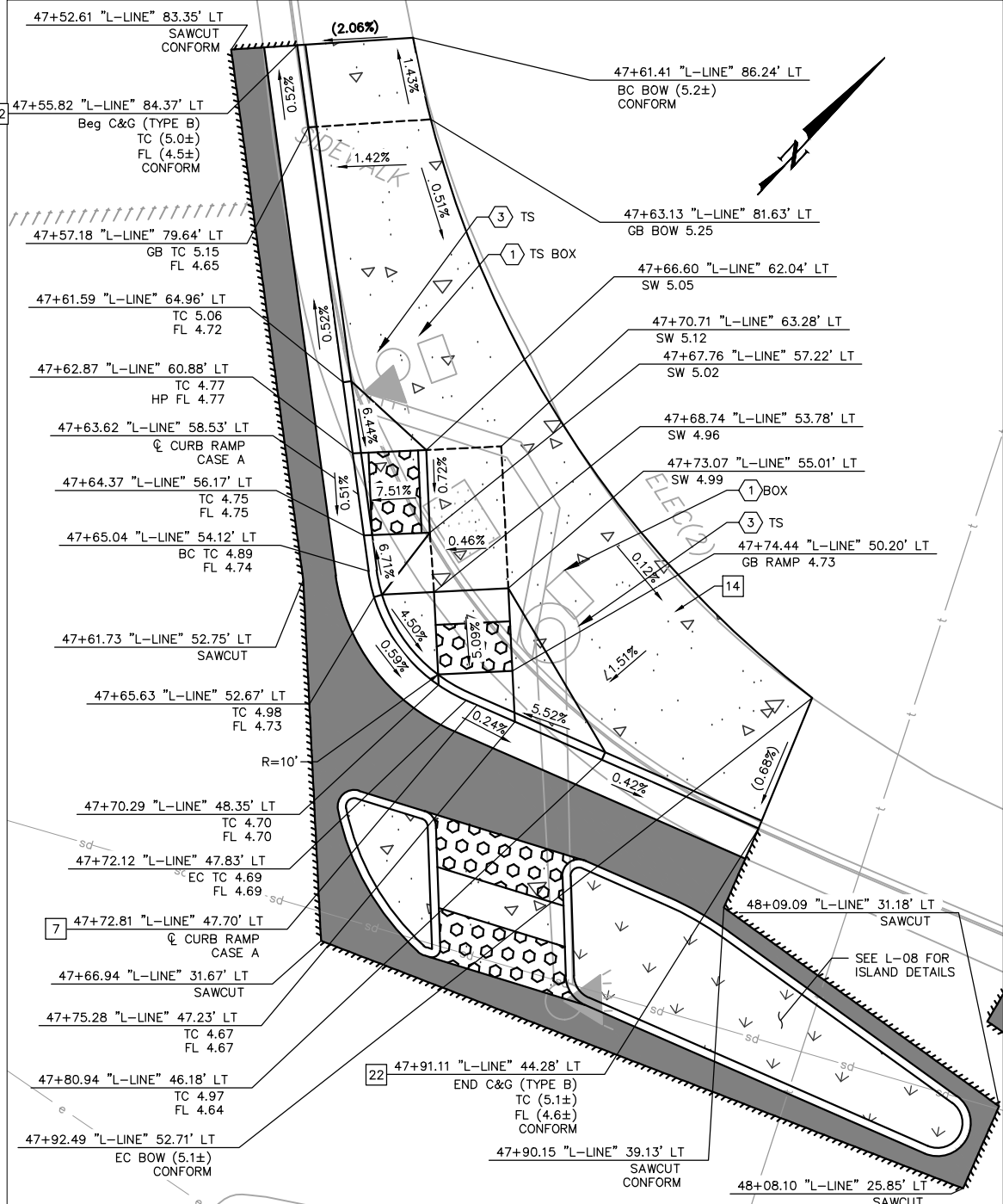
PROJECT NO.
1007299

SCALE:
AS SHOWN

DATE: 12/11/2024

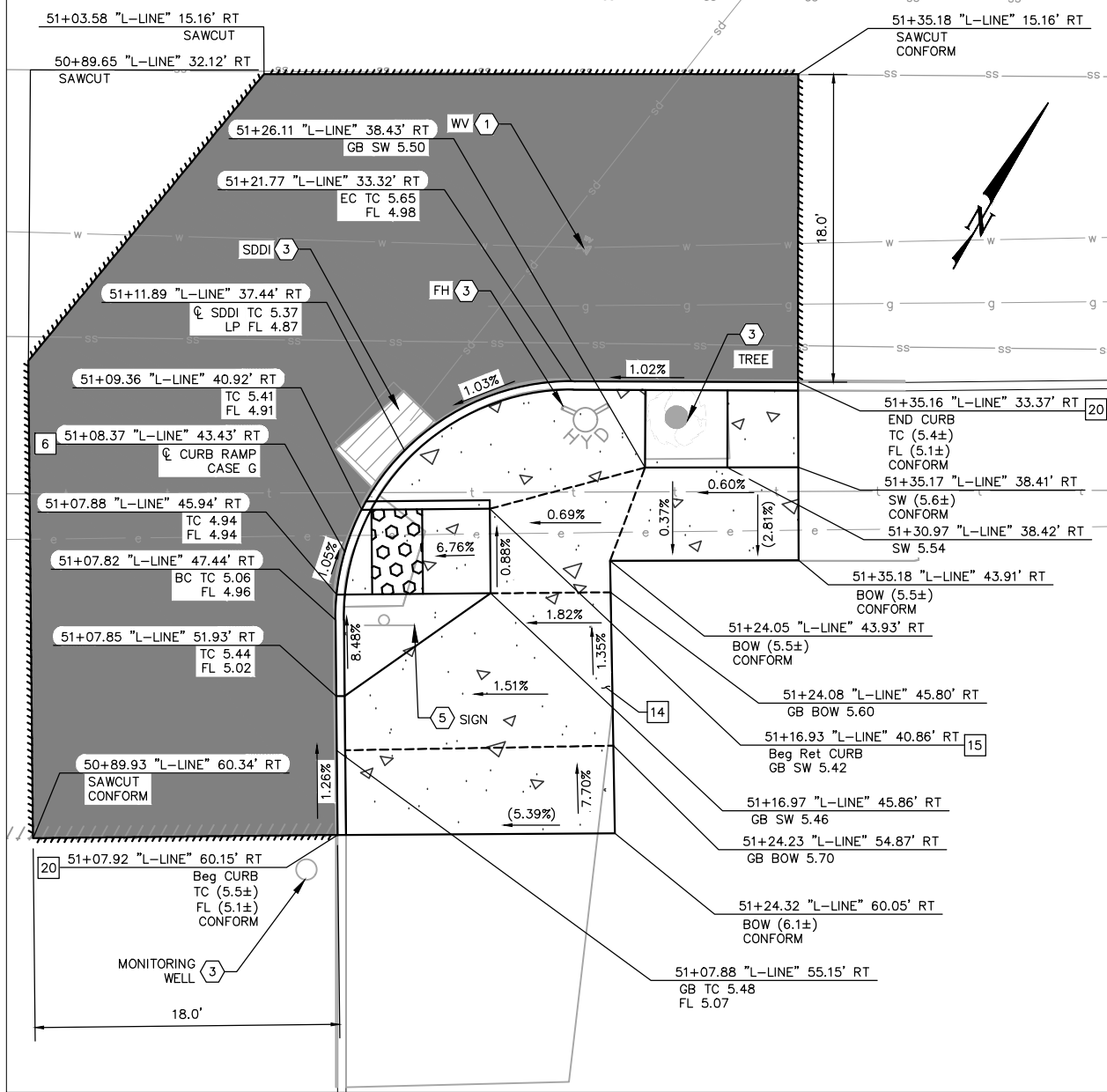
SHEET NO.
CD-12
39 OF **83**

DRAWING NAME: K:\OAK\RDWY\07062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-11.dwg
PLOT DATE: 12/11/24
PLOT BY: Priya Pallivathucal



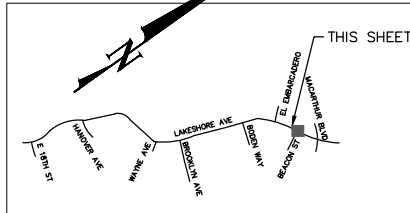
DETAIL A
LAKESHORE AVE & EL EMBARCADERO
CURB RAMP DETAILS (NORTHEAST CORNER)

SEE SHEET L-08
 SCALE 1"=10'

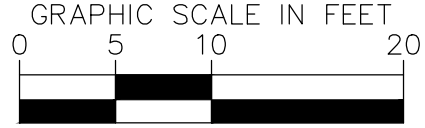


DETAIL B
LAKESHORE AVE & BEACON ST
CURB RAMP DETAILS (SOUTHEAST CORNER)

SEE SHEET L-08
 SCALE 1"=10'



KEY MAP



PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON
 ANSI B (11" X 17") SHEETS. REFER TO
 GRAPHIC SCALE FOR SHEETS OF
 DIFFERENT SIZES.

- LEGEND**
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 - BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
 - HMA PAVEMENT (12" DEPTH)
 - PROPOSED LANDSCAPE AREA
 - RAISED ISLAND WITH DOWEL CURB
 - RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
 - CHANNEL DRAIN (SEE DD-01)
 - GRADE BREAK
 - SAWCUT LIMITS
 - Exist SLOPE
 - PROPOSED SLOPE

SEE GENERAL NOTES ON SHEET CD-01

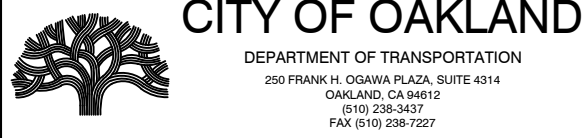
CONSTRUCTION NOTES

- 6** INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 7** INSTALL CURB RAMP PER CITY OF OAKLAND STANDARD DWG S-3. CASE NOTED PER PLANS.
- 14** INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 15** INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
- 20** INSTALL CURB (TYPE A1-6 MOD) PER DETAIL F ON CD-20. CURB HEIGHT AS SHOWN ON PLANS.
- 22** INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

- 1** ADJUST TO GRADE.
- 3** PROTECT IN PLACE.
- 5** REMOVE AND RESET SIGN AND POST. SEE SS SHEETS FOR MORE DETAILS.

100% SUBMITTAL
 NOT FOR BID OR
 CONSTRUCTION



LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

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 Oakland, California 94612 Fax No. (916)608-0885

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 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL

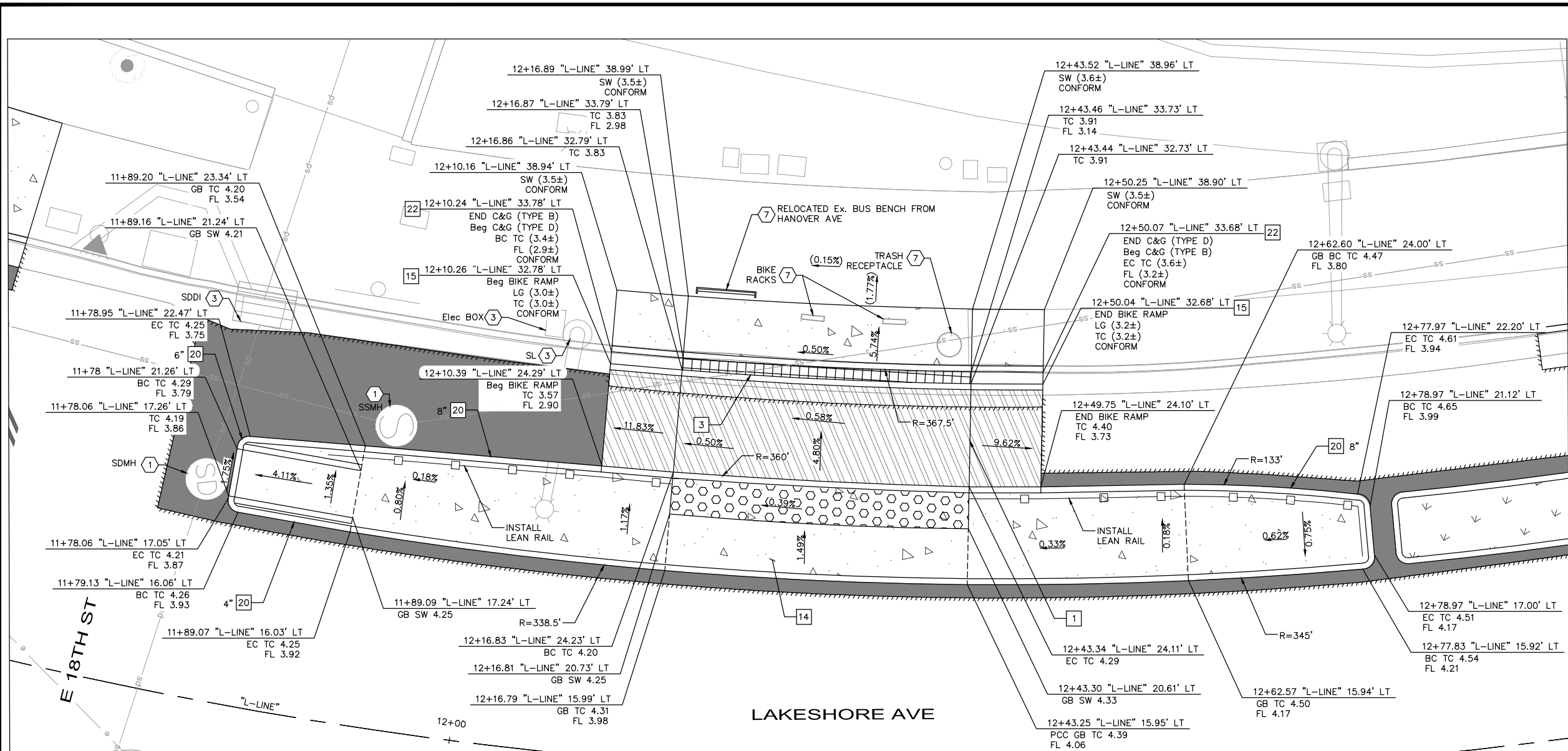


CONSTRUCTION DETAILS
CURB RAMP

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. CD-13
 DATE: 12/11/2024 40 OF 83

DRAWING NAME: K:\OAK_BDWY\07062024 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-11.dwg
 PLOT DATE: 12-13-24
 PLOTTED BY: Priya Pallivathucal



**LAKESHORE AVE & E. 18TH ST
RAISED TRANSIT ISLAND**

SEE SHEET L-01
SEE SHEET DM-01
SCALE 1"=10'

- LEGEND**
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 - BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
 - HMA PAVEMENT (12" DEPTH)
 - PROPOSED LANDSCAPE AREA
 - RAISED ISLAND WITH DOWEL CURB
 - RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)
 - TRENCH GRATE (SEE DD-01)
 - EXIST SLOPE
 - PROPOSED SLOPE
 - GRADE BREAK
 - SAWCUT LIMITS
 - LEAN RAIL

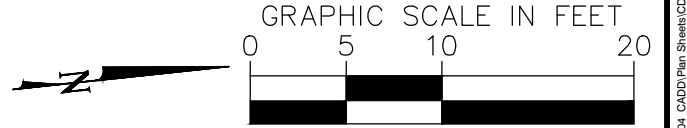
**SEE GENERAL NOTES
ON SHEET CD-01**

CONSTRUCTION NOTES

- 1** INSTALL RAISED CROSSING FLUSH WITH BUS BOARDING ISLAND. SEE CD-21 FOR ADDITIONAL DETAILS.
- 3** INSTALL TRENCH GRATE PER DETAILS A AND B ON SHEET DD-01.
- 14** INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 15** INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
- 20** INSTALL CURB (TYPE A1-6 MOD) PER DETAIL F ON CD-20. CURB HEIGHT AS SHOWN ON PLANS.
- 22** INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

- 1** ADJUST TO GRADE.
- 3** PROTECT IN PLACE.
- 7** REMOVE AND RELOCATE. CONTRACTOR TO INSTALL AND COORDINATE FINAL LOCATION WITH ENGINEER.



100% SUBMITTAL
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CONSTRUCTION

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
BUS BOARDING
ISLAND**

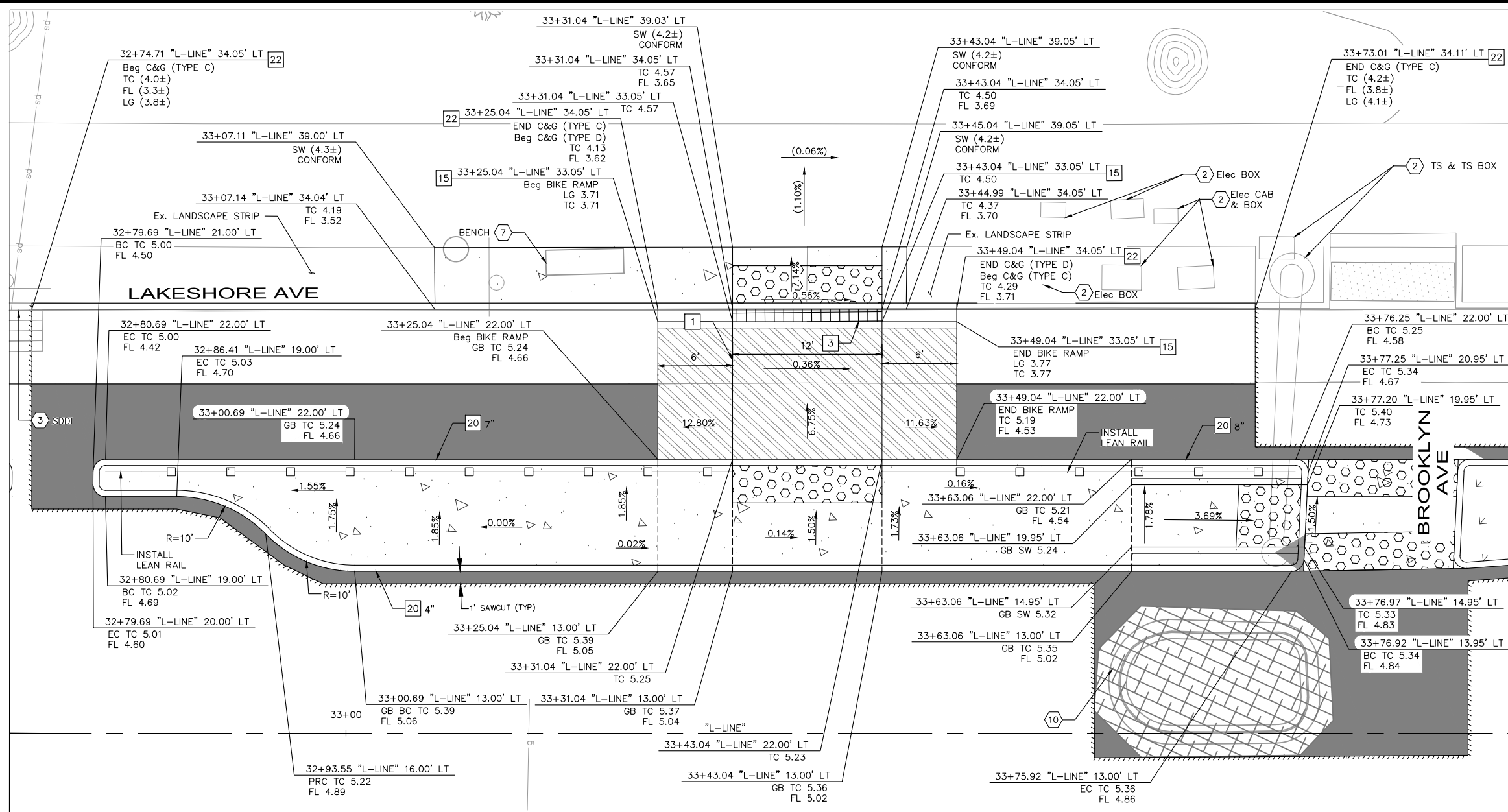
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
CD-14
41 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\CD-15.dwg
PLOT DATE: 12-13-24
PLOTTED BY: Priya Pallivathucal



- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 -

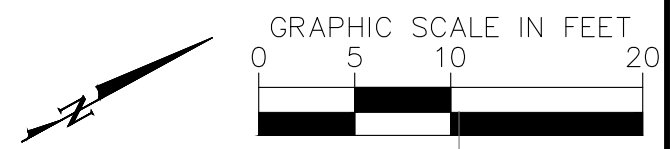
SEE GENERAL NOTES ON SHEET CD-01

- ### CONSTRUCTION NOTES
- 1 INSTALL RAISED CROSSING FLUSH WITH BUS BOARDING ISLAND. SEE CD-21 FOR ADDITIONAL DETAILS.
 - 2 INSTALL BICYCLE RAMP. MAX 16% SLOPE PER CITY OF OAKLAND STD DWG BP-6.
 - 3 INSTALL TRENCH GRATE PER DETAILS A AND B ON SHEET DD-01.
 - 15 INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
 - 20 INSTALL CURB (TYPE A1-6 MOD) PER DETAIL F ON CD-20. CURB HEIGHT AS SHOWN ON PLANS.
 - 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

- ### UTILITY AND DEMOLITION NOTES
- 2 EXISTING TO REMAIN.
 - 3 PROTECT IN PLACE.
 - 7 REMOVE AND RELOCATE. CONTRACTOR TO INSTALL AND COORDINATE FINAL LOCATION WITH ENGINEER.
 - 10 REMOVE. SEE DEMOLITION PLANS FOR DETAILS.

**LAKESHORE AVE & BROOKLYN AVE
RAISED TRANSIT ISLAND**

SEE SHEET L-05
SEE SHEET DM-05
SCALE 1"=10'



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CONSTRUCTION

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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DESIGNED BY JORGE MORALES
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION
DETAILS
BUS BOARDING
ISLAND**

PROJECT NO.
1007299

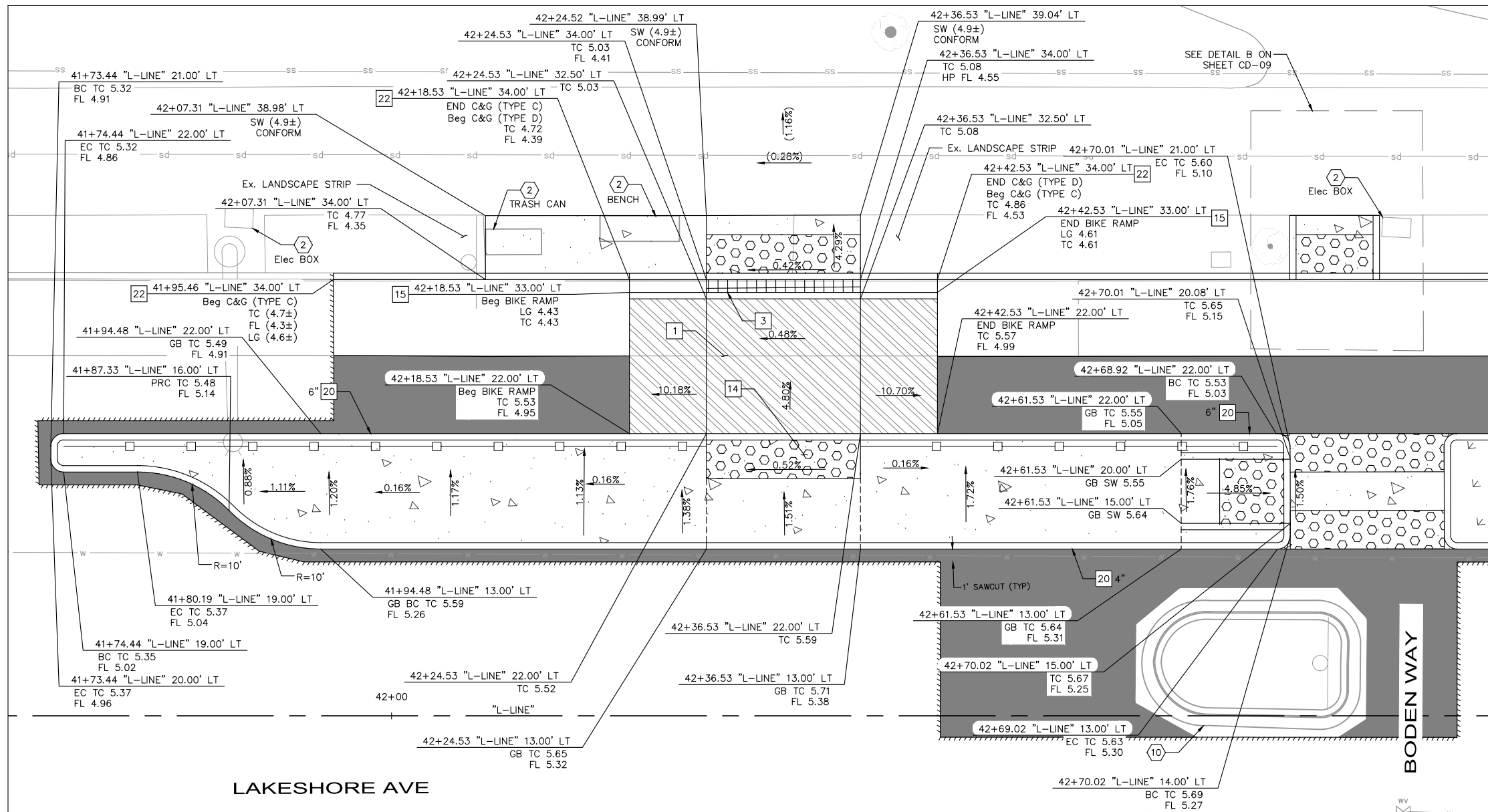
SCALE:
AS SHOWN

SHEET NO.
CD-16

DATE: 12/11/2024

43 OF 83

DRAWING NAME: K:\OAK_BDWY\08708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\CD-16.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



- ### LEGEND
- PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
 - DETECTABLE WARNING SURFACE
 -

SEE GENERAL NOTES ON SHEET CD-01

CONSTRUCTION NOTES

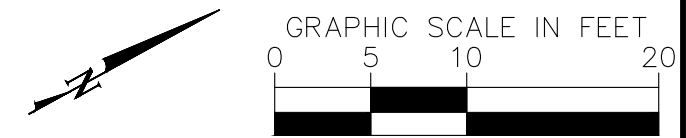
- 1 INSTALL RAISED CROSSING FLUSH WITH BUS BOARDING ISLAND. SEE CD-21 FOR ADDITIONAL DETAILS.
- 2 INSTALL BICYCLE RAMP. MAX 16% SLOPE PER CITY OF OAKLAND STD DWG BP-6.
- 3 INSTALL TRENCH GRATE PER DETAILS A AND B ON SHEET DD-01.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 15 INSTALL RETAINING CURB PER DETAIL E ON SHEET CD-20.
- 20 INSTALL CURB (TYPE A1-6 MOD) PER DETAIL F ON CD-20. CURB HEIGHT AS SHOWN ON PLANS.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

- EXISTING TO REMAIN.
- REMOVE. SEE DEMOLITION PLANS FOR DETAILS.

LAKESHORE AVE & BODEN WAY RAISED TRANSIT ISLAND

SEE SHEET L-06
SEE SHEET DM-06
SCALE 1"=10'



100% SUBMITTAL
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CONSTRUCTION

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

CONSTRUCTION
DETAILS
BUS BOARDING
ISLAND

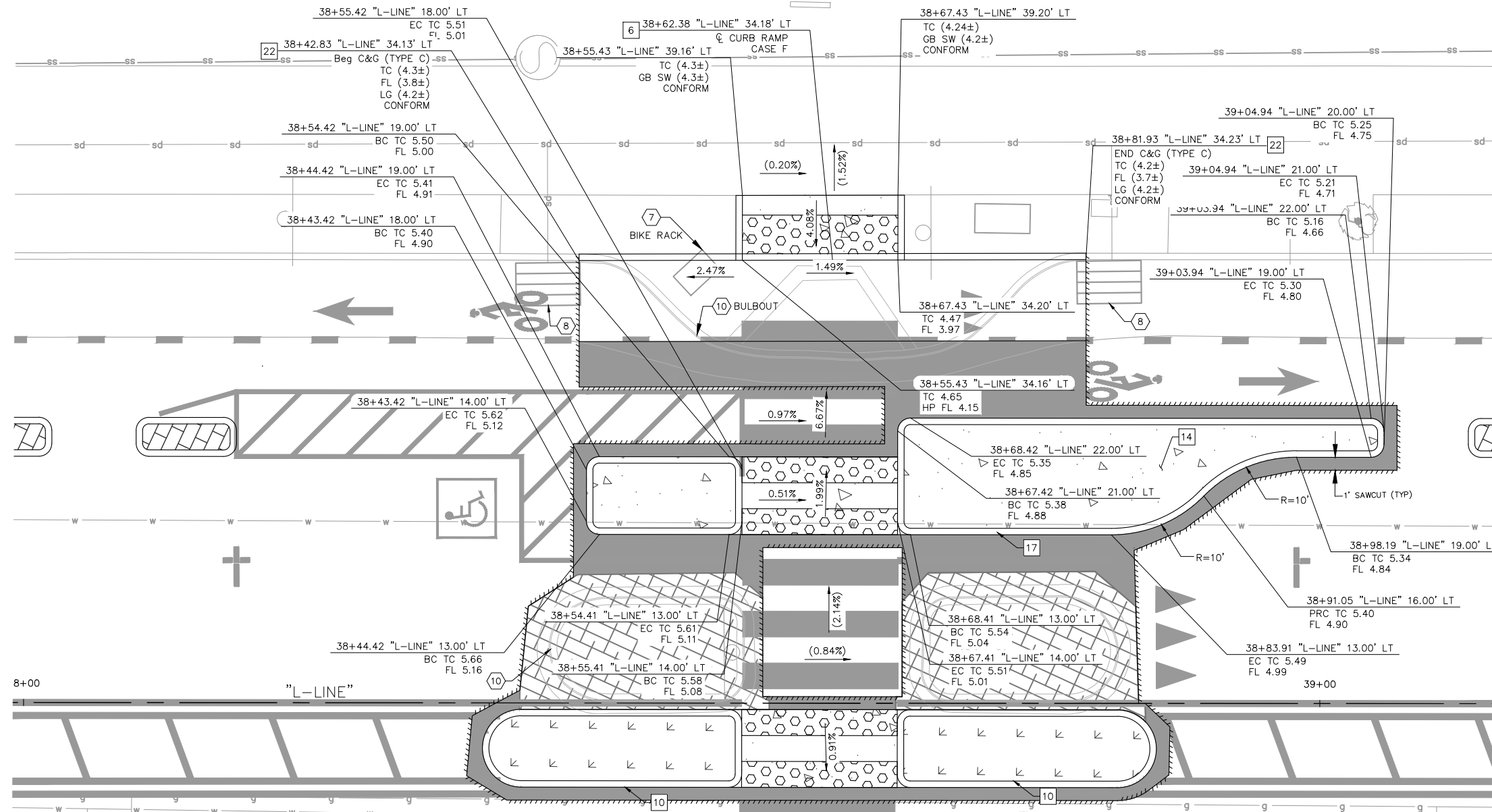
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
CD-17
44 OF 83














DATE: 12/11/2024

DRAWING NAME: K:\OAK_BDWY\08708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\CD-15.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



**LAKESHORE AVE
CURB RAMP DETAILS**
SEE SHEET L-06
SCALE 1"=10'

LEGEND

-  PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND
-  DETECTABLE WARNING SURFACE
-  BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.
-  HMA PAVEMENT (12" DEPTH)
-  PROPOSED LANDSCAPE AREA
-  RAISED ISLAND WITH DOWEL CURB
-  RAISED CROSSWALK HAM (TYPE A) OVERLAY (6" MAX)
-  TRENCH GRATE (SEE DD-01)
-  GRADE BREAK
-  SAWCUT LIMITS
-  EXIST SLOPE
-  PROPOSED SLOPE
-  ADA LANDING ZONE (FOR REFERENCE ONLY)

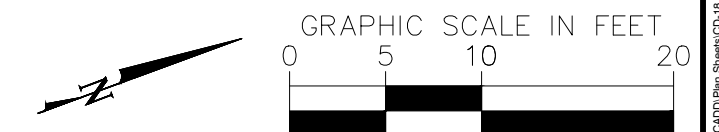
SEE GENERAL NOTES ON CD-01

CONSTRUCTION NOTES

- 6 INSTALL CURB RAMP PER CALTRANS 2023 STD PLAN A88A. CASE NOTED PER PLANS.
- 10 INSTALL PEDESTRIAN REFUGE ISLAND PER DETAIL D ON SHEET CD-19. CONCRETE AND AGGREGATE BASE THICKNESS PER CITY OF OAKLAND SIDEWALK STD DWG S-1.
- 14 INSTALL SIDEWALK PER CITY OF OAKLAND STD DWG S-1.
- 17 INSTALL CURB (TYPE A) PER CITY OF OAKLAND STD DWG S-1.
- 22 INSTALL CURB AND GUTTER (C&G) PER CITY OF OAKLAND STD DWG S-1. C&G TYPE AS SPECIFIED ON PLANS.

UTILITY AND DEMOLITION NOTES

- 7 REMOVE AND RELOCATE. CONTRACTOR TO INSTALL AND COORDINATE FINAL LOCATION WITH ENGINEER.
- 8 REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.
- 10 REMOVE. SEE DEMOLITION PLANS FOR DETAILS.



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PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

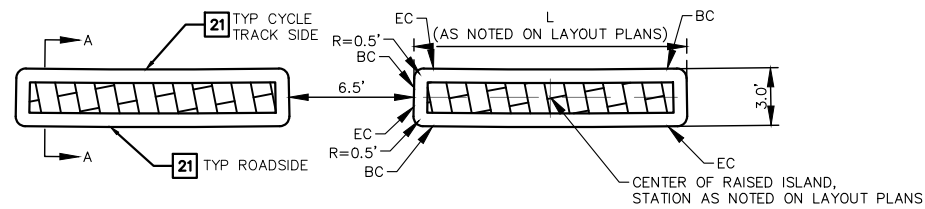
CONSTRUCTION DETAILS

PROJECT NO. **1007299**

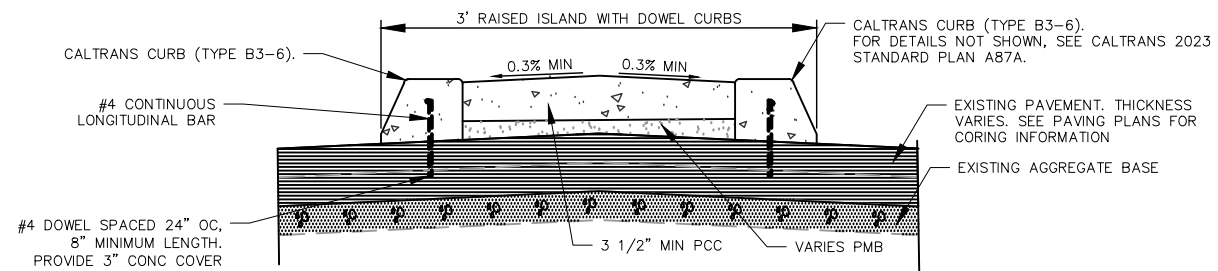
SCALE: AS SHOWN SHEET NO. **CD-18**
45 OF 83

DATE: 12/11/2024

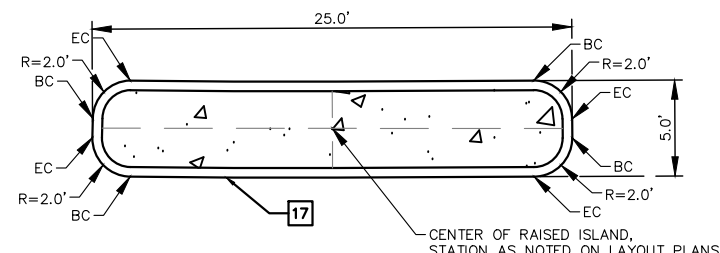
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12-11-24
PLOT DATE: Priya Pallivathucal



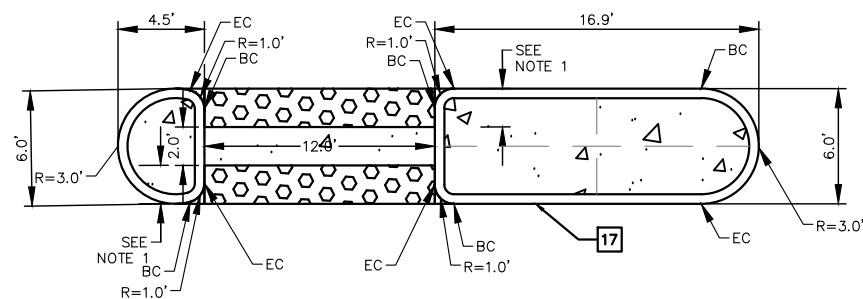
RAISED ISLAND WITH DOWEL CURB (3-FT WIDE) (A)
NOT TO SCALE



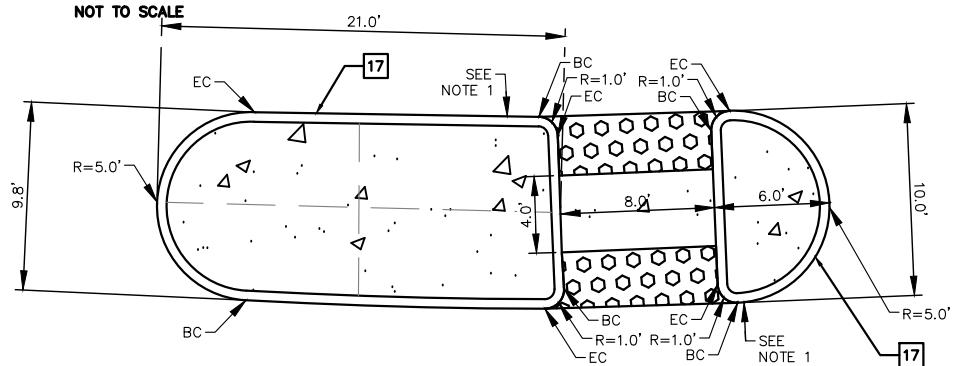
SECTION A-A (DOWEL CURB)



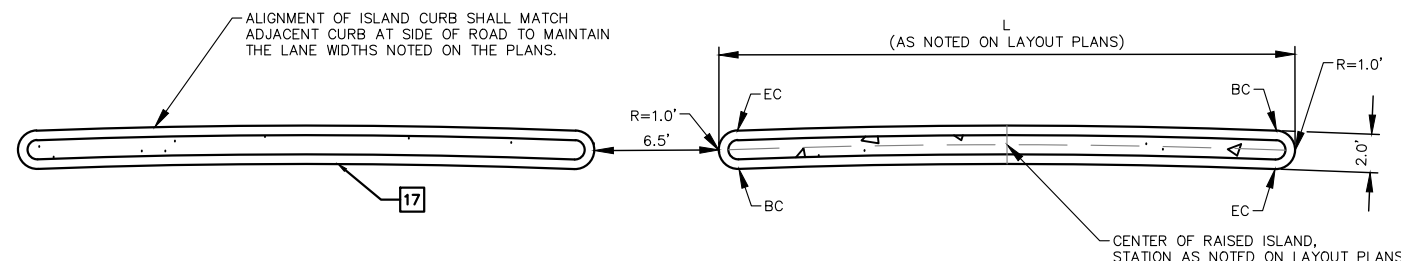
RAISED ISLAND DETAIL (5-FT WIDE) (B)
NOT TO SCALE



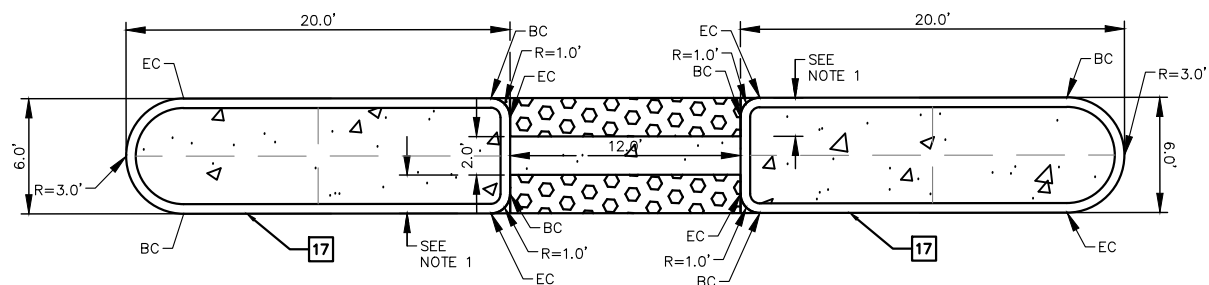
PEDESTRIAN REFUGE ISLAND DETAIL (E)
NOT TO SCALE



PEDESTRIAN REFUGE ISLAND DETAIL (C)
NOT TO SCALE



RAISED ISLAND DETAIL (2-FT WIDE) (F)
NOT TO SCALE



PEDESTRIAN REFUGE ISLAND DETAIL (D)
NOT TO SCALE

GENERAL NOTES:

- WHERE AN ISLAND PASSAGEWAY LENGTH IS GREATER THAN OR EQUAL TO 6'-0", BUT LESS THAN 8'-0", EACH DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH AND 2'-0" DEPTH OF THE PASSAGEWAY LENGTH. WHERE AN ISLAND PASSAGEWAY LENGTH IS GREATER THAN OR EQUAL TO 8'-0", EACH DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH AND 3'-0" DEPTH OF THE PASSAGEWAY LENGTH. DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE ISLAND PASSAGEWAY EXCEPT A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF THE PASSAGEWAY.

CONSTRUCTION NOTES

- 17 INSTALL CURB (TYPE A) PER CITY OF OAKLAND STD DWG S-1.
- 21 INSTALL CURB (TYPE B3-6) PER CALTRANS 2023 STANDARD PLAN A87A.

PLAN PRODUCTION WARNING
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION DETAILS
RAISED ISLANDS**

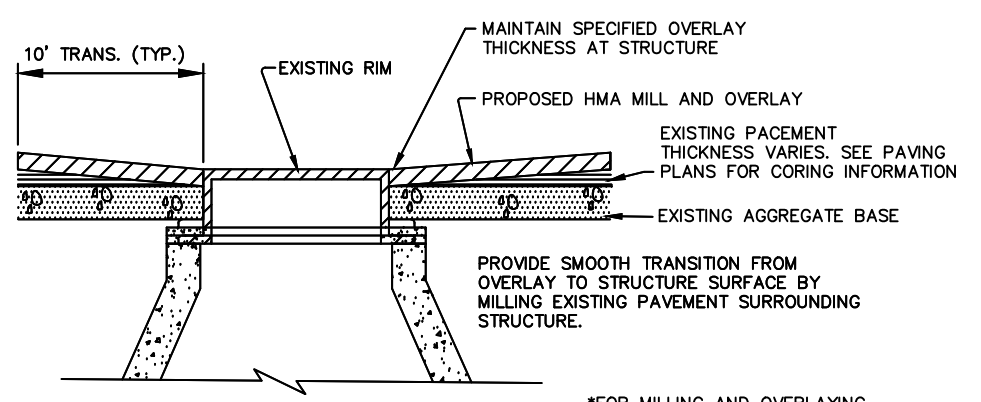
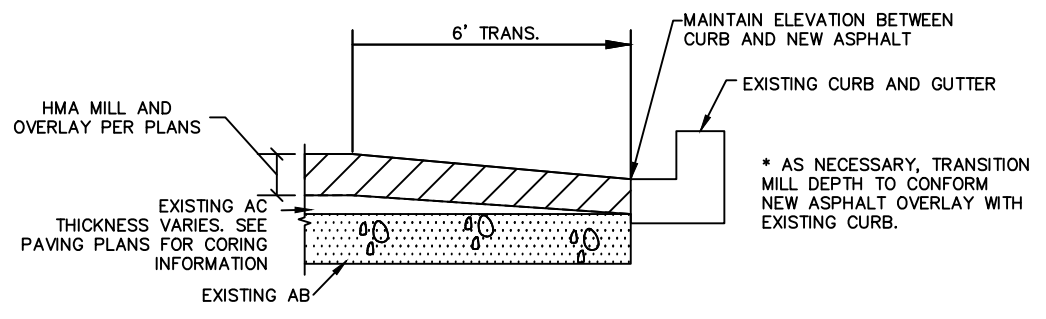
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
CD-19
46 OF 83

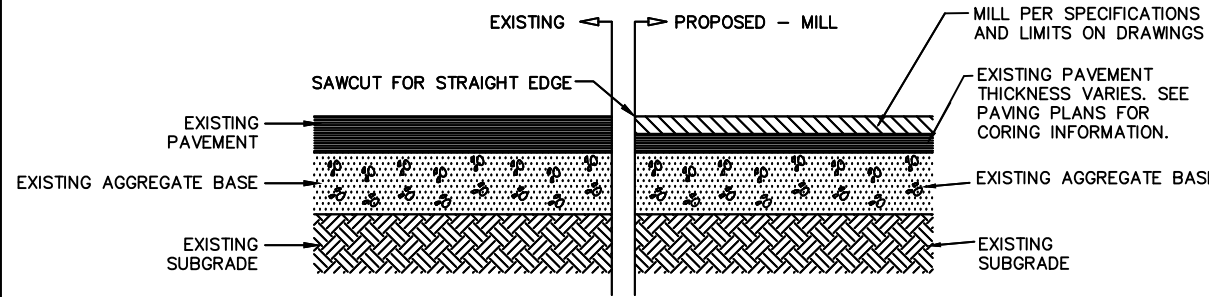
DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\CD-19.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



NOTE: PLANS DO NOT NECESSARILY INCLUDE ALL STRUCTURE LOCATIONS. CONTRACTOR SHALL VERIFY THE NUMBER AND LOCATION OF ALL STRUCTURES.

*FOR MILLING AND OVERLAYING AROUND DRAINAGE STRUCTURES NOT TO BE RAISED

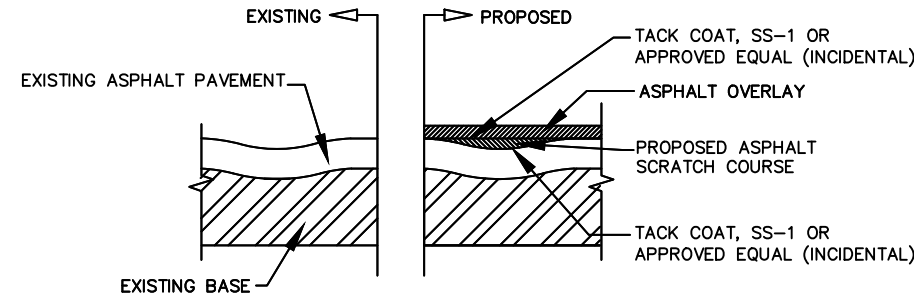


NOTE:

1. AFTER MILL, ENTIRE AREA SHALL BE SWEEPED & CLEANED OF DEBRIS
2. IT MAY BE REQUIRED TO RAISE MILL CUT WHERE THINNER PAVEMENTS ARE ENCOUNTERED. REMOVE AGGREGATE BASE AS NECESSARY TO PROVIDE SPECIFIED ASPHALT OVERLAY THICKNESS.

MILL ASPHALT
NOT TO SCALE

(A)



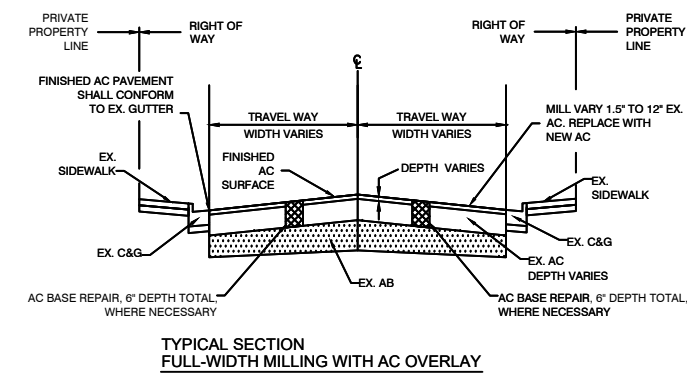
NOTES:

1. INSTALL SCRATCH COURSE TO FILL LOW POINTS, SHRINKAGE CRACKS AND SMALL TO MEDIUM POTHOLES. THIS COURSE IS TO PROVIDE A SMOOTH AND LEVEL SURFACE AS CALLED FOR ON THE PLANS.
2. AFTER SURFACES HAVE BEEN PREPARED TO THE SATISFACTION OF THE ENGINEER AND PRIOR TO OVERLAY, ENTIRE AREA SHALL BE SWEEPED AND CLEANED OF DEBRIS. PRIOR TO OVERLAY APPLY TACK COAT AT THE RATE OF 0.20 GAL/SYD. TRAFFIC WILL NOT BE PERMITTED AFTER TACK COAT INSTALLATION.
3. MIN. LIFT THICKNESS SHALL BE THREE TIMES THE MAX. AGGREGATE SIZE.
4. ISOLATED SCRATCH COURSE TO BE USED WHEN THE ENGINEER OR OWNER DETERMINE THAT LOW SPOTS EXIST THROUGHOUT PAVEMENT SURFACE AREAS AND NEED TO BE LEVELED PRIOR TO ASPHALT OVERLAY.

ASPHALT OVERLAY

NOT TO SCALE

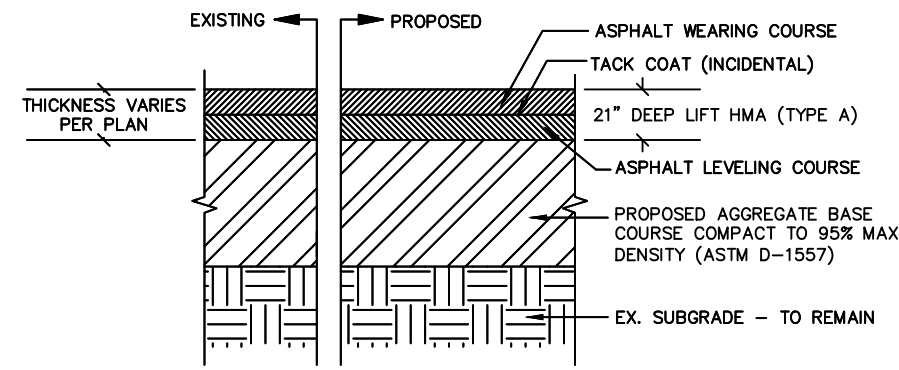
(B)



MILL AND OVERLAY

NOT TO SCALE

(C)



NOTE:

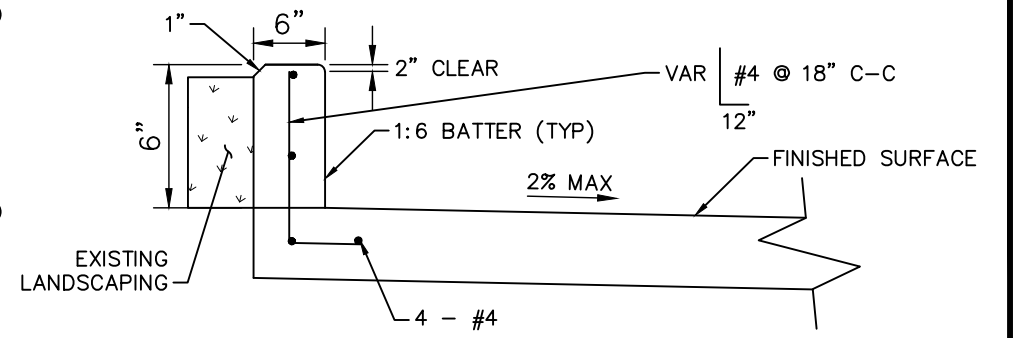
- MIN. LIFT THICKNESS SHALL BE AT LEAST THREE TIMES THE MAX. AGGREGATE SIZE. AS NECESSARY, REMOVE AGGREGATE BASE TO PROVIDE SPECIFIED ASPHALT THICKNESS.

AC BASE REPAIR

NOT TO SCALE

(D)

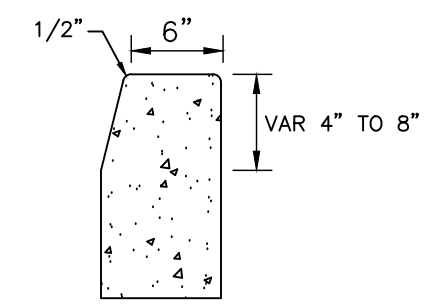
PLAN PRODUCTION WARNING
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6" RETAINING CURB

NOT TO SCALE

(E)



NOTES:

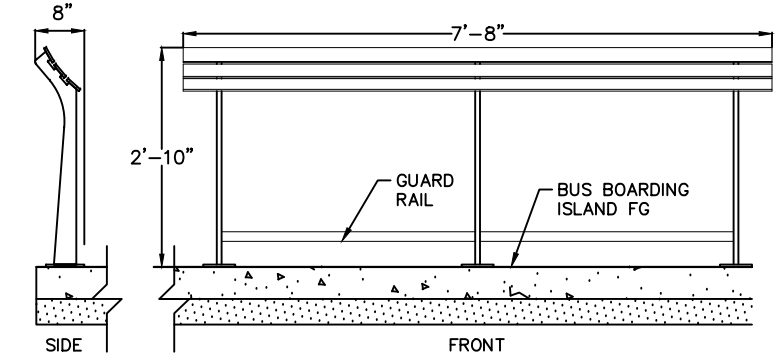
1. FOR DETAILS NOT SHOWN, SEE CALTRANS Std PLAN A87A.
2. FOR CURB HEIGHTS, SEE CONSTRUCTION DETAIL SHEETS.

CURB (TYPE A1-6 MOD)

NOT TO SCALE

(F)

LEANING RAIL:
MFR: KEYSTONE RIDGE DESIGNS, OR APPROVED EQUAL
MODEL: CARSON CSL-8, OR APPROVED EQUAL
FINISH/COLOR: CHROMITE



NOTE: INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS

LEANING RAIL AT BUS ISLAND

NOT TO SCALE

(G)

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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS
MISCELLANEOUS

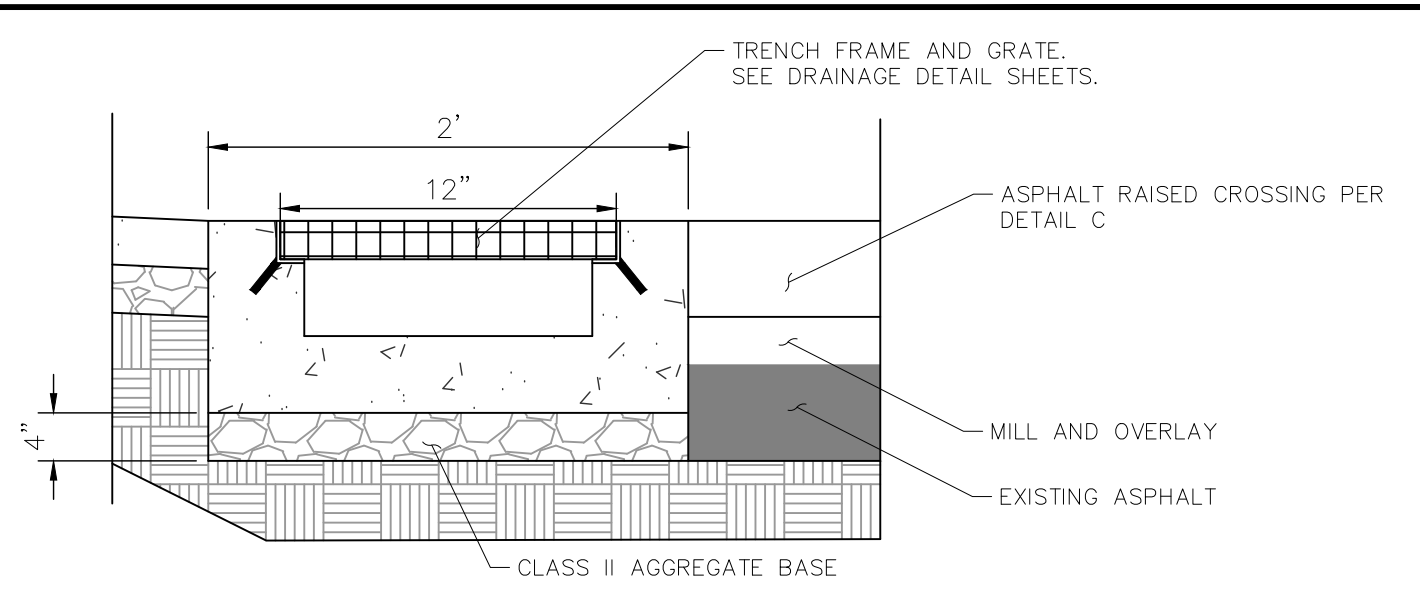
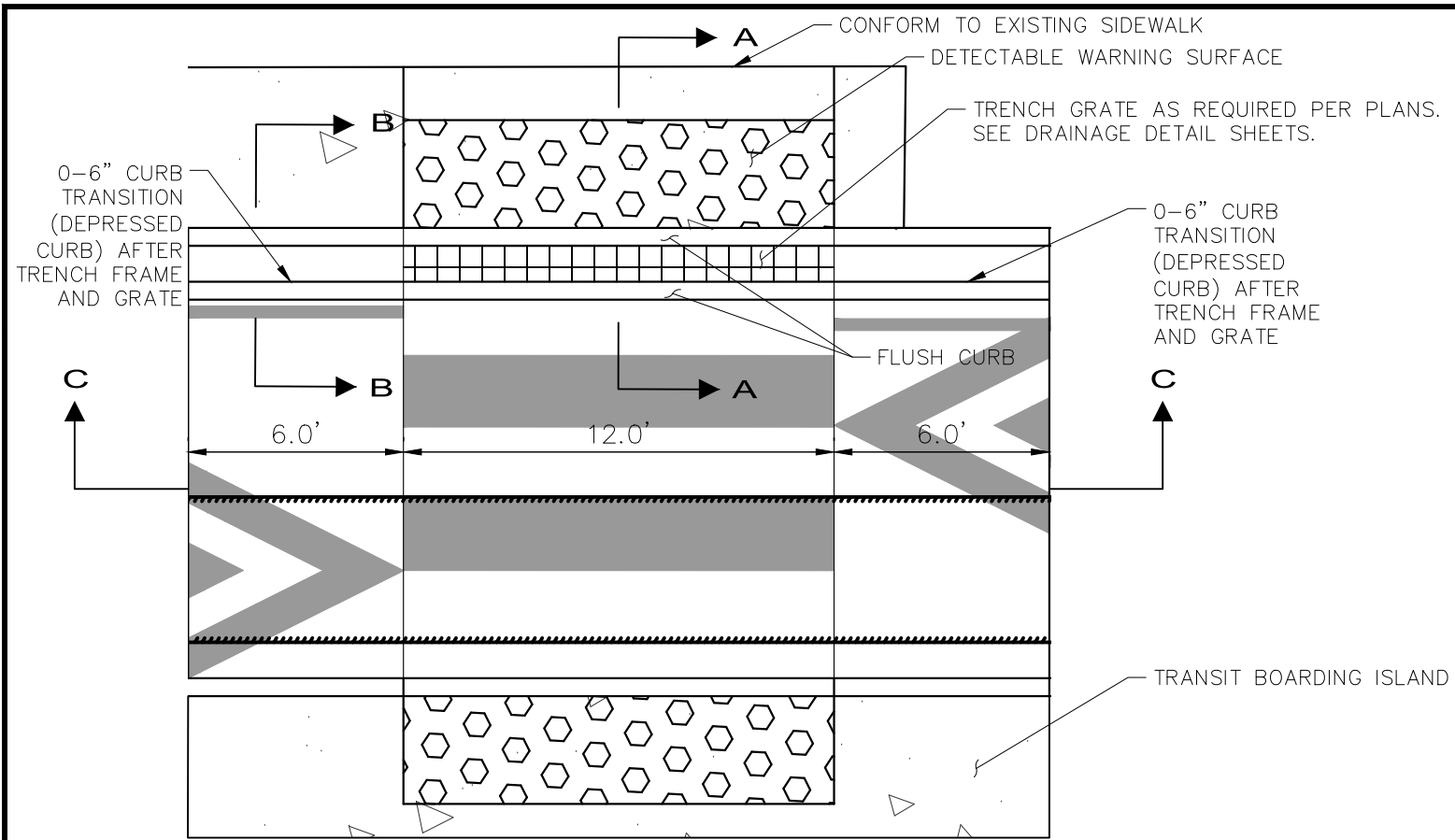
PROJECT NO.
1007299
SCALE:
AS SHOWN
SHEET NO
CD-20
47 OF 83
DATE: 12/11/2024

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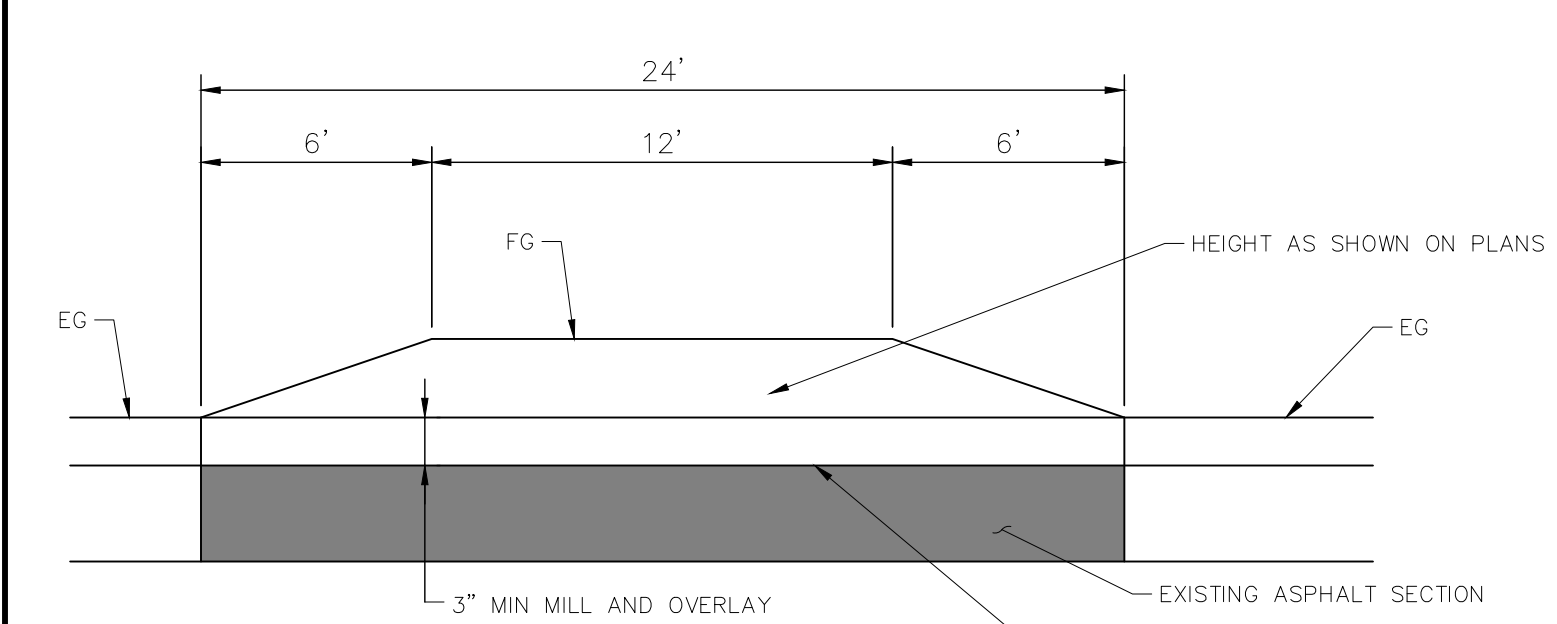
CHECKED BY RYAN DOLE, P.E.
DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



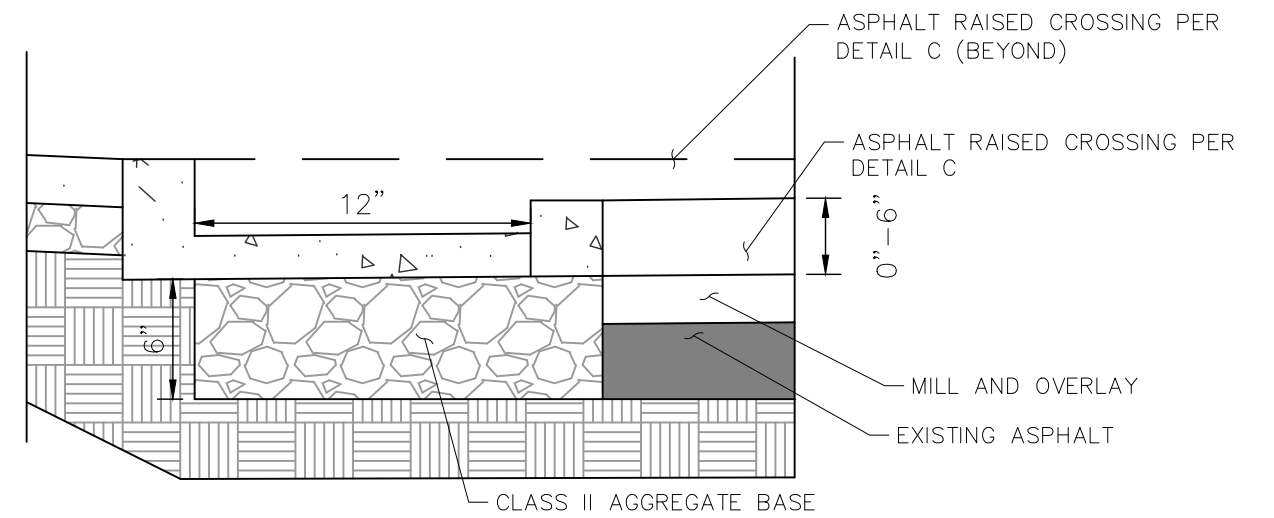
DRAWING NAME: K:\OAK_RD\W\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\CD-14.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



A-A RAISED CROSSWALK WITH TRENCH GRATE CROSS SECTION (A)
NOT TO SCALE



C-C RAISED CROSSING (C)
NOT TO SCALE



B-B RAISED CROSSWALK SECTION (B)
NOT TO SCALE

CLEAN EXISTING ASPHALT PAVEMENT AND APPLY TACK COAT LAYER BETWEEN NEW ASPHALT RAISED CROSSING AND EXISTING ASPHALT

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**CONSTRUCTION DETAILS
RAISED CROSSING**

PROJECT NO.
1007299

SCALE:
AS SHOWN

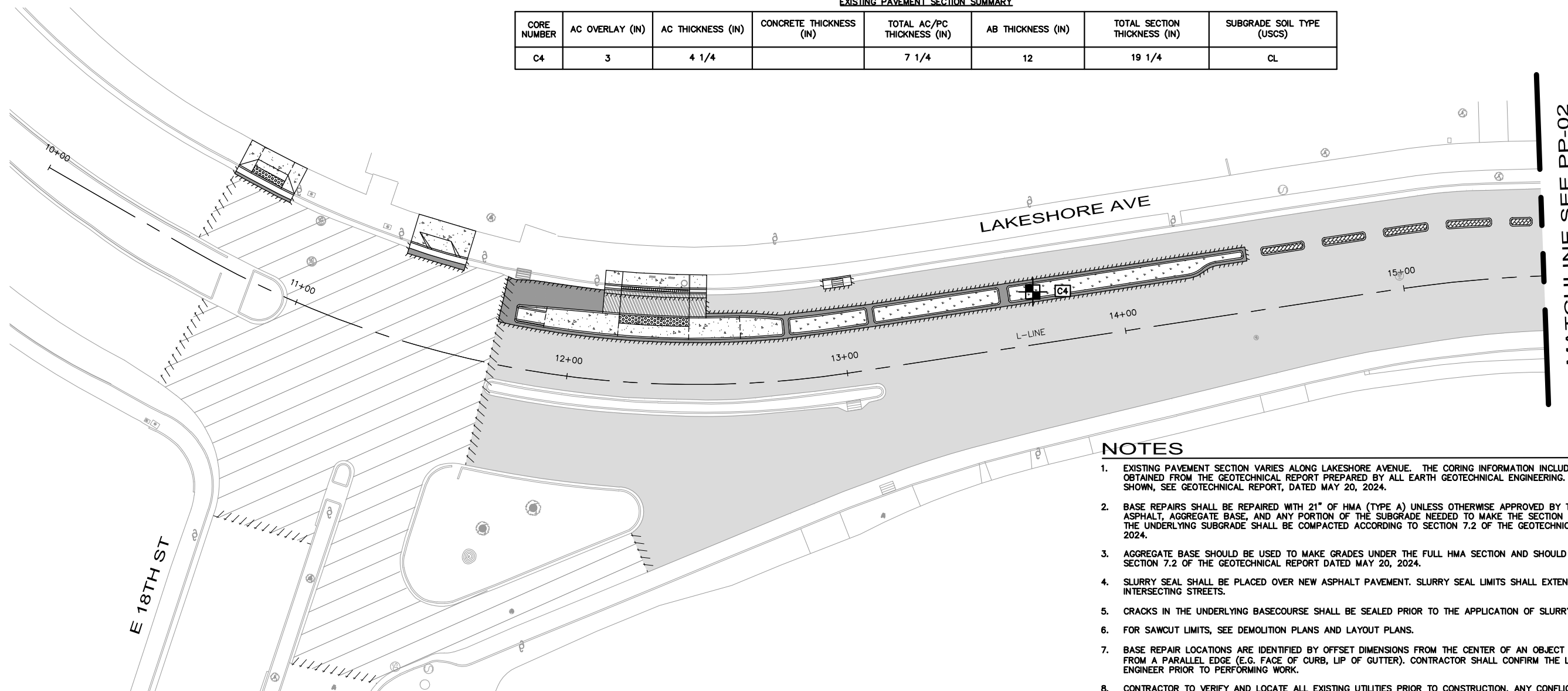
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SHEET NO.
CD-21
48 OF **83**

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\CD-14.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal

EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C4	3	4 1/4		7 1/4	12	19 1/4	CL

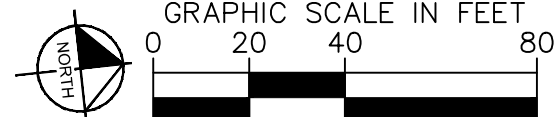


NOTES

- EXISTING PAVEMENT SECTION VARIES ALONG LAKESHORE AVENUE. THE CORING INFORMATION INCLUDED IN THESE PLANS WAS OBTAINED FROM THE GEOTECHNICAL REPORT PREPARED BY ALL EARTH GEOTECHNICAL ENGINEERING. FOR ADDITIONAL DETAILS NOT SHOWN, SEE GEOTECHNICAL REPORT, DATED MAY 20, 2024.
- BASE REPAIRS SHALL BE REPAIRED WITH 21" OF HMA (TYPE A) UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE EXISTING ASPHALT, AGGREGATE BASE, AND ANY PORTION OF THE SUBGRADE NEEDED TO MAKE THE SECTION THICKNESS SHALL BE REMOVED. THE UNDERLYING SUBGRADE SHALL BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT, DATED MAY 20, 2024.
- AGGREGATE BASE SHOULD BE USED TO MAKE GRADES UNDER THE FULL HMA SECTION AND SHOULD BE COMPACTED ACCORDING TO SECTION 7.2 OF THE GEOTECHNICAL REPORT DATED MAY 20, 2024.
- SLURRY SEAL SHALL BE PLACED OVER NEW ASPHALT PAVEMENT. SLURRY SEAL LIMITS SHALL EXTEND TO THE CURB RETURN OF INTERSECTING STREETS.
- CRACKS IN THE UNDERLYING BASECOURSE SHALL BE SEALED PRIOR TO THE APPLICATION OF SLURRY/SEAL COATS.
- FOR SAWCUT LIMITS, SEE DEMOLITION PLANS AND LAYOUT PLANS.
- BASE REPAIR LOCATIONS ARE IDENTIFIED BY OFFSET DIMENSIONS FROM THE CENTER OF AN OBJECT (E.G. UTILITY POLE, HYDRANT) OR FROM A PARALLEL EDGE (E.G. FACE OF CURB, LIP OF GUTTER). CONTRACTOR SHALL CONFIRM THE LIMITS. OF REPAIR WITH THE ENGINEER PRIOR TO PERFORMING WORK.
- CONTRACTOR TO VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND THE RESOLUTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION ACTIVITIES. ADJUST ALL UTILITIES WITHIN PAVING LIMITS TO GRADE.
- ANY INCREASE IN DISTURBED AREA, OR CHANGE TO PAVING LIMITS IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

LEGEND

	SLURRY SEAL		3" HMA (TYPE A) INLAY		ELECTRICAL TRENCHING, SEE ELECTRICAL SHEET
	TRENCH GRATE (SEE DD-01)		HMA PAVEMENT (12" DEPTH)		PAVEMENT TREATMENT LIMITS
	BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.		PROPOSED LANDSCAPE AREA		SAWCUT LIMITS
	PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND		RAISED ISLAND WITH DOWEL CURB		CORING LOCATION
	DETECTABLE WARNING SURFACE		RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)		



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

PAVING PLANS

PROJECT NO.
1007299

SCALE:
AS SHOWN

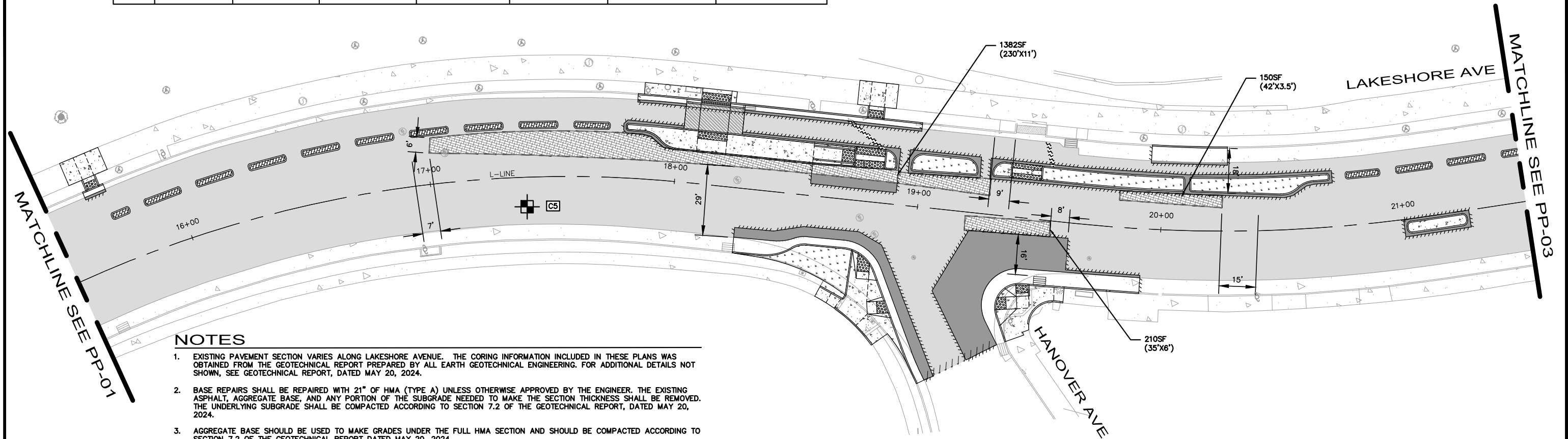
SHEET NO.
PP-01
49 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Tracks\04_CADD\Plan Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C5	2 1/2	2 1/2		5	11	16	CL



NOTES

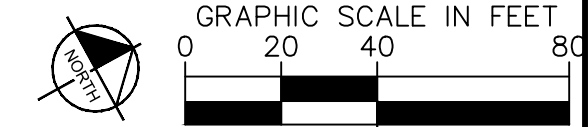
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- FOR SAWCUT LIMITS, SEE DEMOLITION PLANS AND LAYOUT PLANS.
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- ANY INCREASE IN DISTURBED AREA OR CHANGE TO PAVING LIMITS IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

LEGEND

	SLURRY SEAL		3" HMA (TYPE A) INLAY		ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
	TRENCH GRATE (SEE DD-01)		HMA PAVEMENT (12" DEPTH)		PAVEMENT TREATMENT LIMITS
	BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.		PROPOSED LANDSCAPE AREA		SAWCUT LIMITS
	PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND		RAISED ISLAND WITH DOWEL CURB		CORING LOCATION
	DETECTABLE WARNING SURFACE		RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)		

ANY INCREASE IN DISTURBED AREA, OR CHANGE TO PAVING LIMITS, IS REQUIRED TO BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO DEMOLITION AND/OR CONSTRUCTION.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



Kimley Horn
1300 Clay Street, Suite 900 Tel. No. (510)625-0712 © 2024
Oakland, California 94612 Fax No. (916)608-0885

CHECKED BY RYAN DOLE, P.E.
DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL

RYAN J. DOLE
No. 075749
08/30/28
CIVIL ENGINEER
STATE OF CALIFORNIA

100% SUBMITTAL
NOT FOR BID OR
CONSTRUCTION

CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION
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OAKLAND, CA 94612
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FAX (510) 238-7227

**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

PAVING PLANS

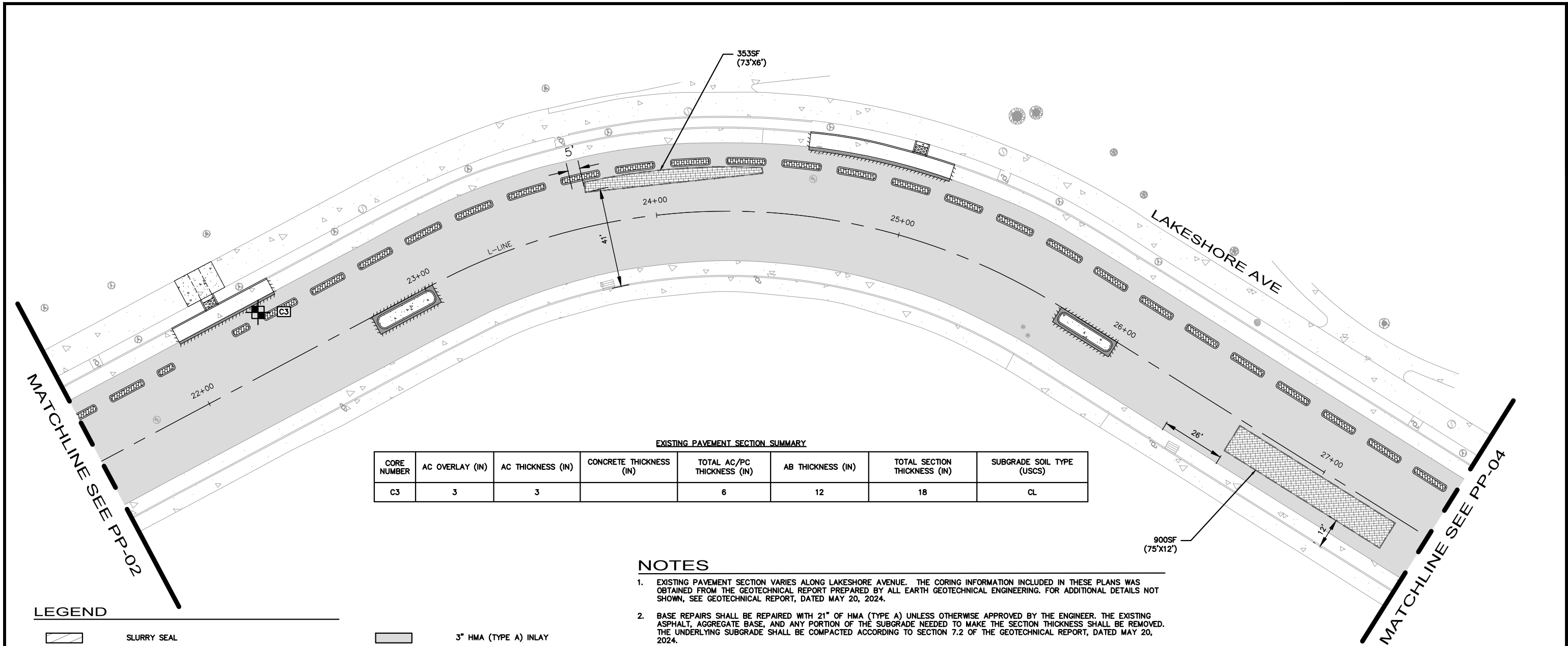
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
PP-02
50 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Tracks\04_CADD\Plan_Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal



EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C3	3	3		6	12	18	CL

NOTES

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LEGEND

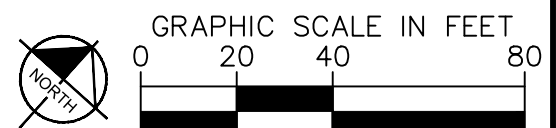
- | | | | |
|--|--|--|--|
| | SLURRY SEAL | | 3" HMA (TYPE A) INLAY |
| | TRENCH GRATE (SEE DD-01) | | HMA PAVEMENT (12" DEPTH) |
| | BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19. | | PROPOSED LANDSCAPE AREA |
| | PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND | | RAISED ISLAND WITH DOWEL CURB |
| | DETECTABLE WARNING SURFACE | | RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX) |
| | ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS. | | SAWCUT LIMITS |
| | PAVEMENT TREATMENT LIMITS | | CORING LOCATION |

100% SUBMITTAL
NOT FOR BID OR
CONSTRUCTION

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON
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GRAPHIC SCALE FOR SHEETS OF
DIFFERENT SIZES.

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

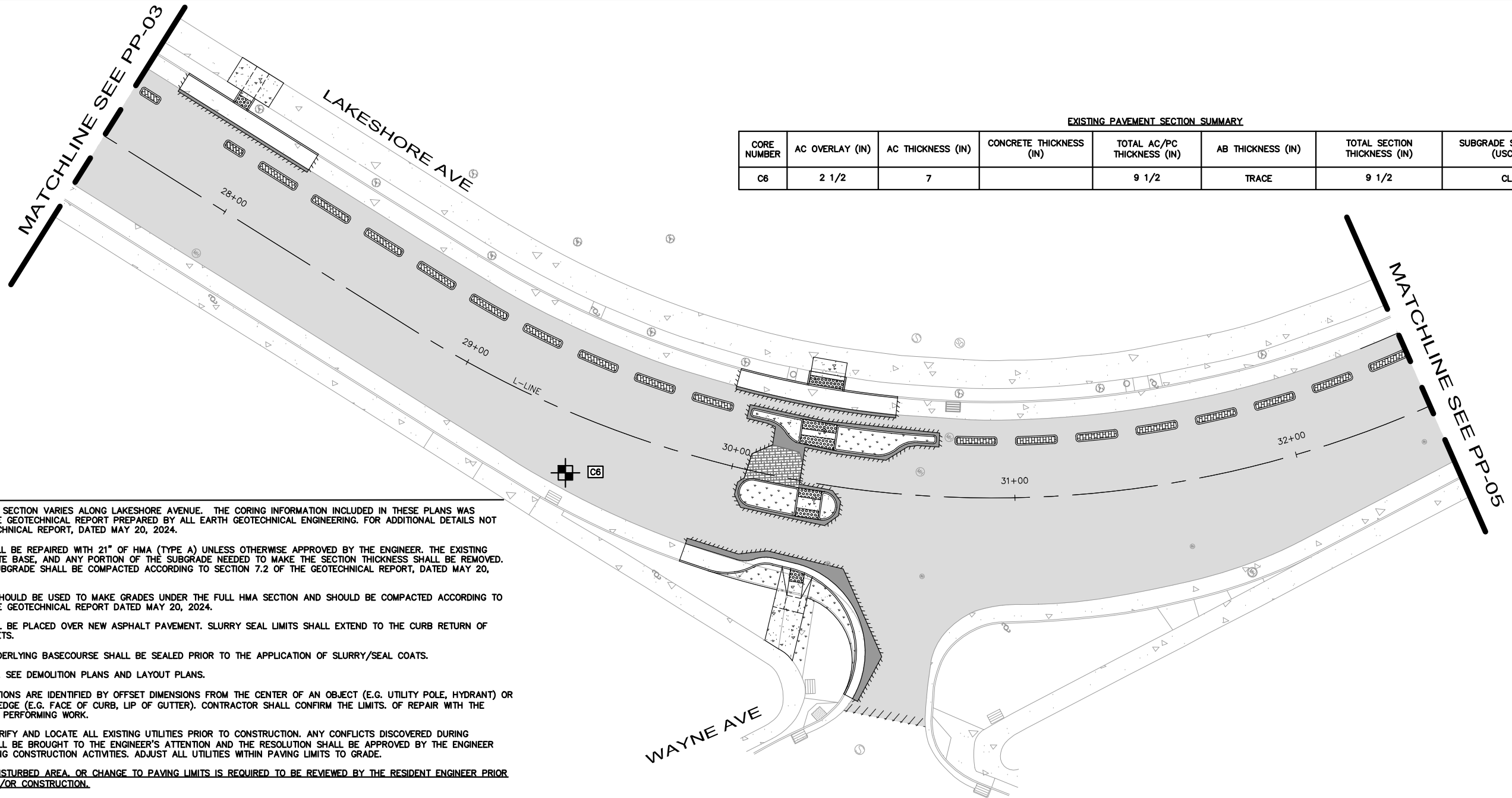
PAVING PLANS

SCALE: AS SHOWN
DATE: 12/11/2024

PROJECT NO.
1007299

SHEET NO.
PP-03
51 OF 83

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C6	2 1/2	7		9 1/2	TRACE	9 1/2	CL

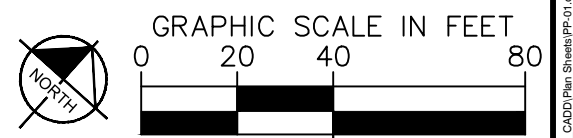
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LEGEND

- | | | | | | |
|--|--|--|--|--|--|
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| | DETECTABLE WARNING SURFACE | | RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX) | | |

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Kimley Horn
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CHECKED BY RYAN DOLE, P.E.
DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

PAVING PLANS

PROJECT NO.
1007299

SCALE:
AS SHOWN

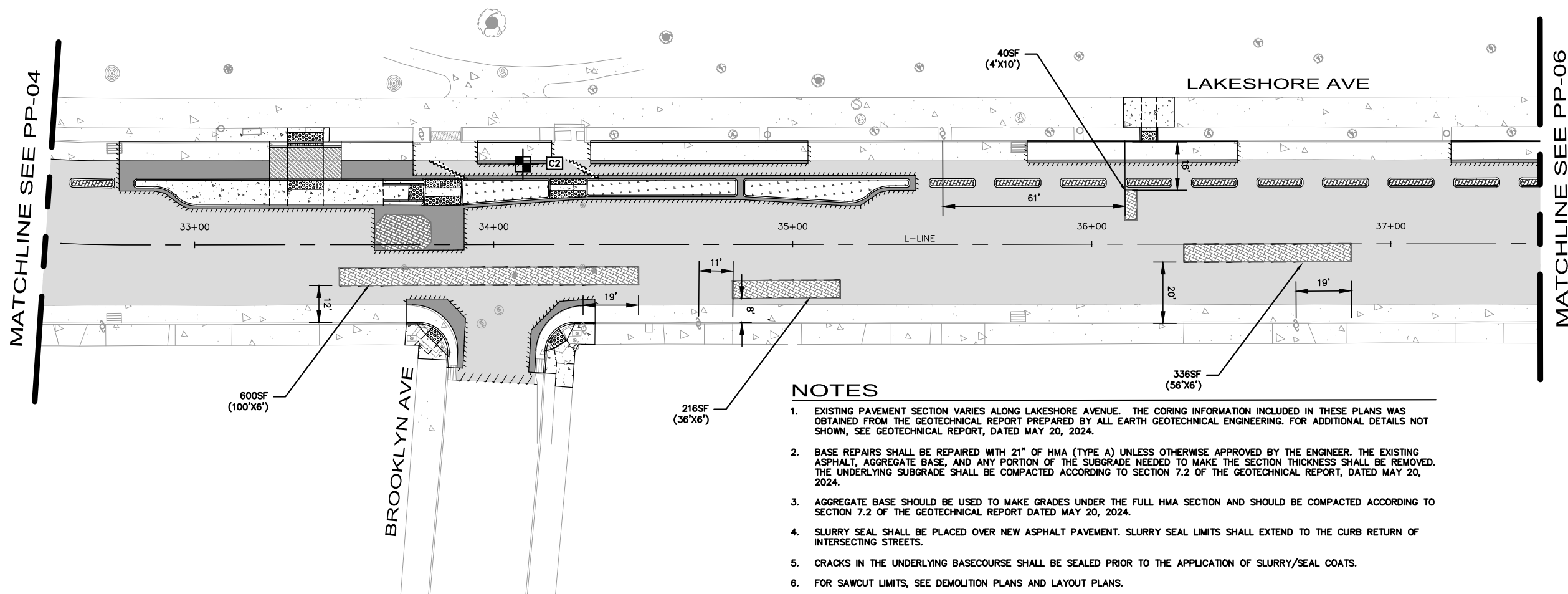
SHEET NO.
PP-04
52 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Tracks\04_CADD\Plan_Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C2	4 1/2	2		6 1/2	4 1/2	11	CL



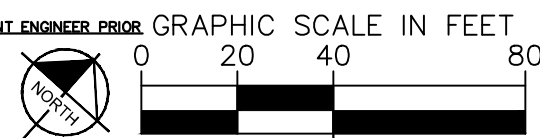
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LEGEND

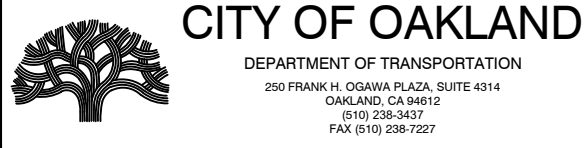
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	TRENCH GRATE (SEE DD-01)		HMA PAVEMENT (12" DEPTH)		PAVEMENT TREATMENT LIMITS
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Kimley Horn	
1300 Clay Street, Suite 900 Tel. No. (510)625-0712 ©2024 Oakland, California 94612 Fax No. (916)608-0885	
CHECKED BY	RYAN DOLE, P.E.
DESIGNED BY	JORGE MORALES
DRAWN BY	TESSA KEMPER/PRIYA PALLIVATHUCAL



LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

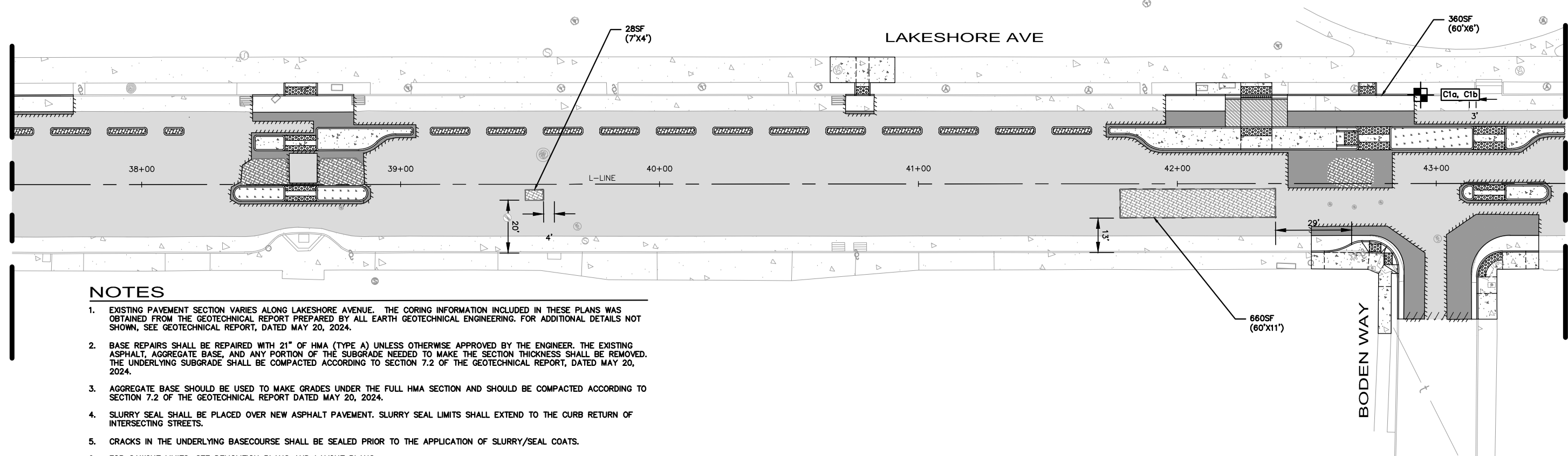
PAVING PLANS	PROJECT NO. 1007299
	SCALE: AS SHOWN
DATE: 12/11/2024	SHEET NO. PP-05 53 OF 83

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C1a			6 1/4	6 1/4	0	6 1/4	CL
C1b	2	3		5	6	11	CL

MATCHLINE SEE PP-05



MATCHLINE SEE PP-07

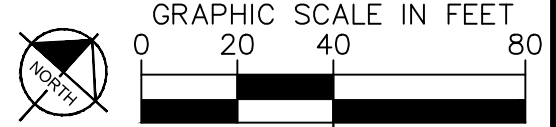
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LEGEND

	SLURRY SEAL		3" HMA (TYPE A) INLAY		ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
	TRENCH GRATE (SEE DD-01)		HMA PAVEMENT (12" DEPTH)		PAVEMENT TREATMENT LIMITS
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	PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND		RAISED ISLAND WITH DOWEL CURB		CORING LOCATION
	DETECTABLE WARNING SURFACE		RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)		

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CHECKED BY RYAN DOLE, P.E.
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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

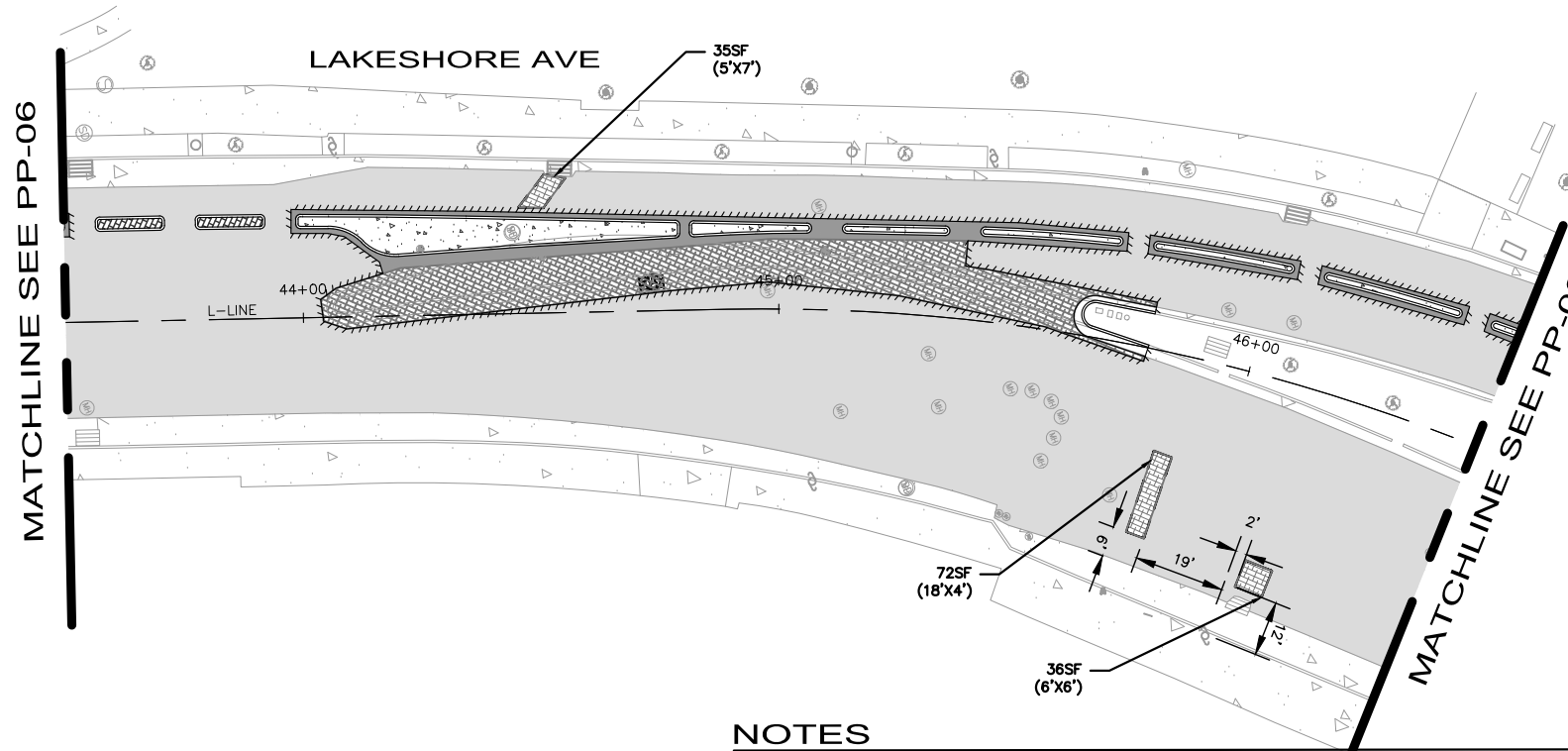
No.	DATE	BY	REFERENCE

PROJECT NO. **1007299**

PAVING PLANS

SCALE: AS SHOWN SHEET NO. PP-06
DATE: 12/11/2024 54 OF 83

DRAWING NAME: K:\OAK_RDWY\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\PP-01.dwg
PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal



LEGEND

- | | | | |
|--|--|--|---|
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HMA (TYPE A) OVERLAY (6" MAX) |
| | ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS. | | SAWCUT LIMITS |
| | PAVEMENT TREATMENT LIMITS | | CORING LOCATION |

NOTES

- EXISTING PAVEMENT SECTION VARIES ALONG LAKESHORE AVENUE. THE CORING INFORMATION INCLUDED IN THESE PLANS WAS OBTAINED FROM THE GEOTECHNICAL REPORT PREPARED BY ALL EARTH GEOTECHNICAL ENGINEERING. FOR ADDITIONAL DETAILS NOT SHOWN, SEE GEOTECHNICAL REPORT, DATED MAY 20, 2024.
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PLAN PRODUCTION WARNING
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Oakland, California 94612 Fax No. (916)608-0885

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

PAVING PLANS

PROJECT NO.
1007299

SCALE:
AS SHOWN

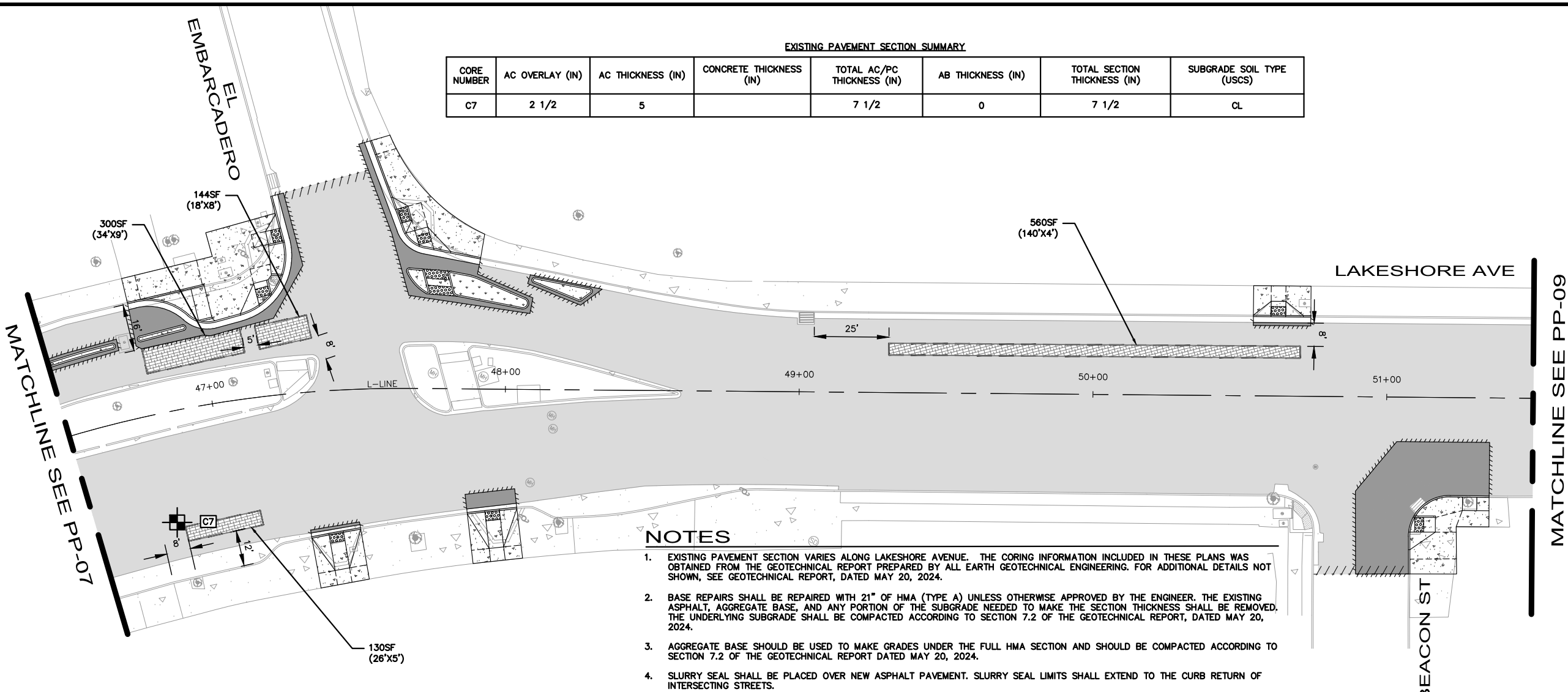
SHEET NO.
PP-07
55 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\PP-07.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal

EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
C7	2 1/2	5		7 1/2	0	7 1/2	CL



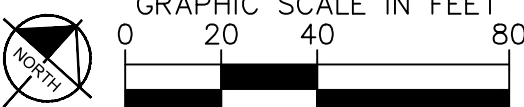
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LEGEND

	SLURRY SEAL		3" HMA (TYPE A) INLAY		ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS.
	TRENCH GRATE (SEE DD-01)		HMA PAVEMENT (12" DEPTH)		PAVEMENT TREATMENT LIMITS
	BASE REPAIR (21" HMA - TYPE A) (SEE NOTE 7). FOR ADDITIONAL DETAILS, SEE AC BASE REPAIR DETAIL ON SHEET CD-19.		PROPOSED LANDSCAPE AREA		SAWCUT LIMITS
	PROPOSED CONCRETE SIDEWALK, BUS BOARDING ISLAND, RAISED ISLAND, AND PEDESTRIAN REFUGE ISLAND		RAISED ISLAND WITH DOWEL CURB		CORING LOCATION
	DETECTABLE WARNING SURFACE		RAISED CROSSWALK HMA (TYPE A) OVERLAY (6" MAX)		

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DESIGNED BY JORGE MORALES
DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

PAVING PLANS

PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
PP-08
56 OF 83

DATE: 12/11/2024

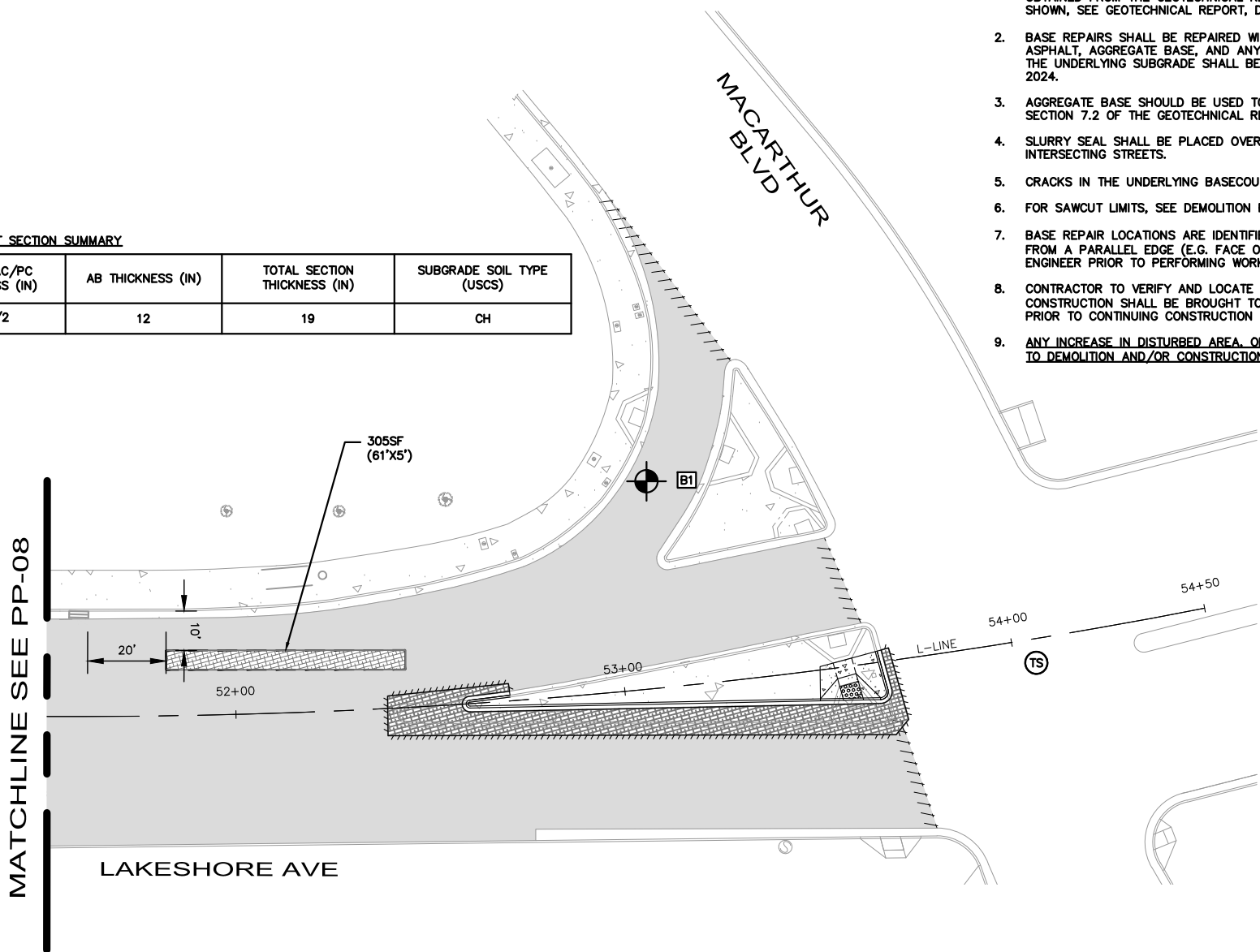
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PLOT DATE: 12-11-24
PLOT BY: Priya Pallivathucal

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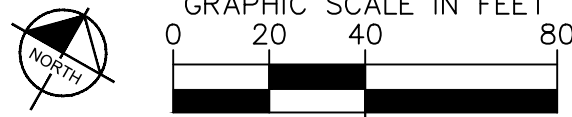
EXISTING PAVEMENT SECTION SUMMARY

CORE NUMBER	AC OVERLAY (IN)	AC THICKNESS (IN)	CONCRETE THICKNESS (IN)	TOTAL AC/PC THICKNESS (IN)	AB THICKNESS (IN)	TOTAL SECTION THICKNESS (IN)	SUBGRADE SOIL TYPE (USCS)
B1	3/1/2004	3 3/4		7 1/2	12	19	CH



LEGEND

- | | | | | | |
|--|--|--|--|--|--|
| | SLURRY SEAL | | 3" HMA (TYPE A) INLAY | | ELECTRICAL TRENCHING, SEE ELECTRICAL SHEETS. |
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 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



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 FAX (510) 238-7227

**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

PAVING PLANS

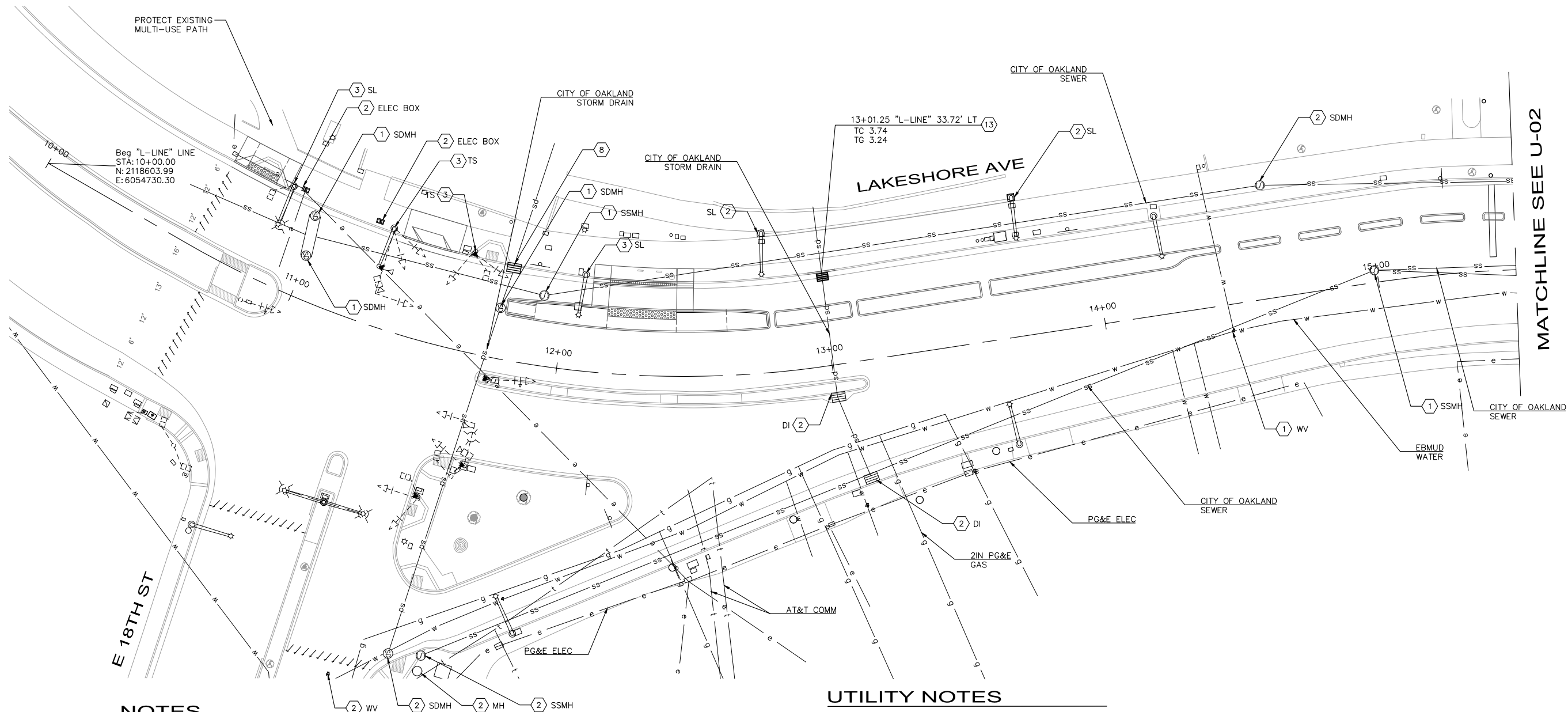
PROJECT NO.
1007299

SCALE:
 AS SHOWN

SHEET NO.
PP-09
 57 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\PP-01.dwg
 PLOT DATE: 12-11-24
 PLOTTED BY: Priya Pallivathucal



NOTES

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7. CONTRACTOR SHALL REPLACE ALL DRAINAGE INLET GRATES WITH HEEL PROOF AND ADA COMPLIANT GRATES.
8. FOR CHANNEL DRAIN DETAIL, SEE DRAINAGE DETAILS.
9. FOR TRAFFIC SIGNAL IMPROVEMENTS, SEE ELECTRICAL PLANS.

UTILITY NOTES

- ① ADJUST TO GRADE.
- ② EXISTING TO REMAIN.
- ③ PROTECT IN PLACE.
- ⑧ REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.
- ⑬ INSTALL DRAINAGE INLET WITH HEEL PROOF AND ADA COMPLIANT GRATE.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
 PLANS**

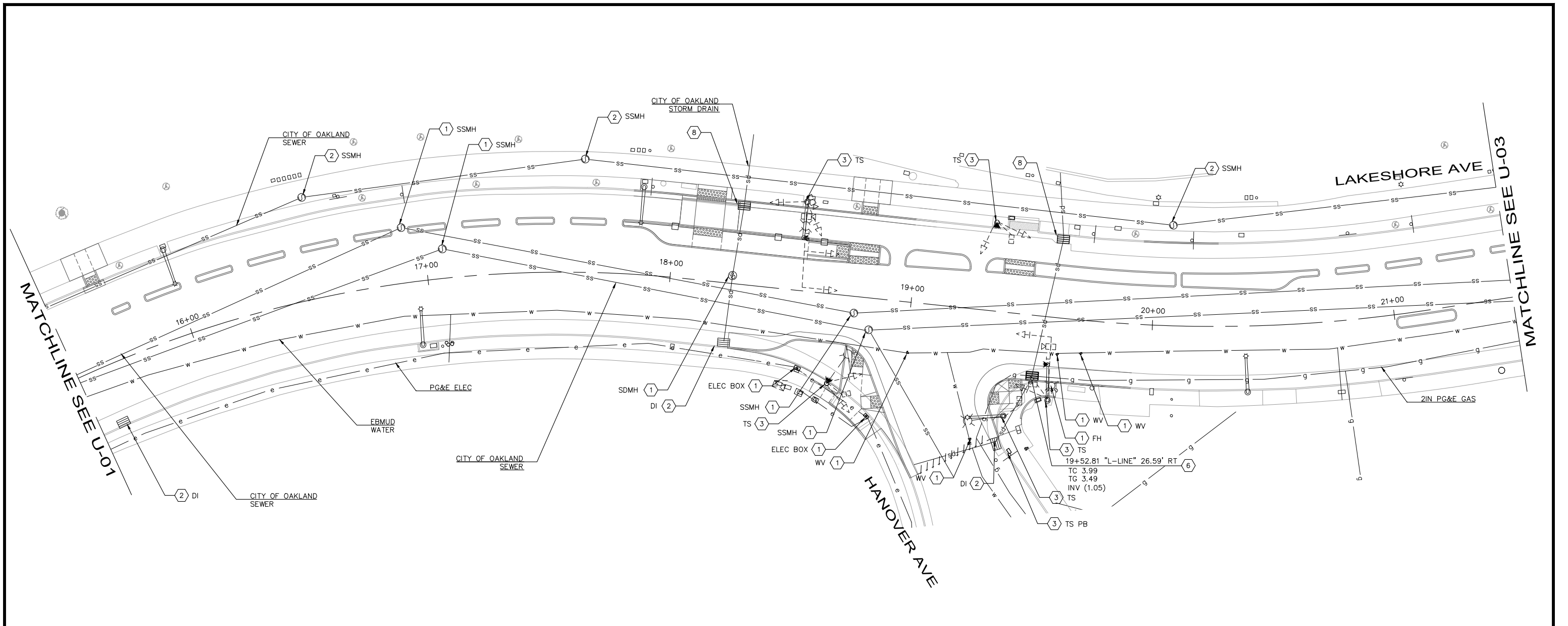
PROJECT NO.
1007299

SCALE:
 AS SHOWN

SHEET NO.
 U-01
 58 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan Sheets\U-XX.dwg
 PLOT DATE: 12/12/24
 PLOTTED BY: Priya Pallivathucal

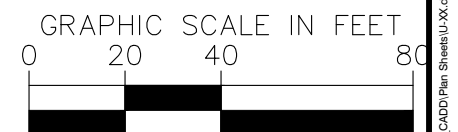
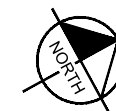


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**DRAINAGE AND UTILITY
PLANS**

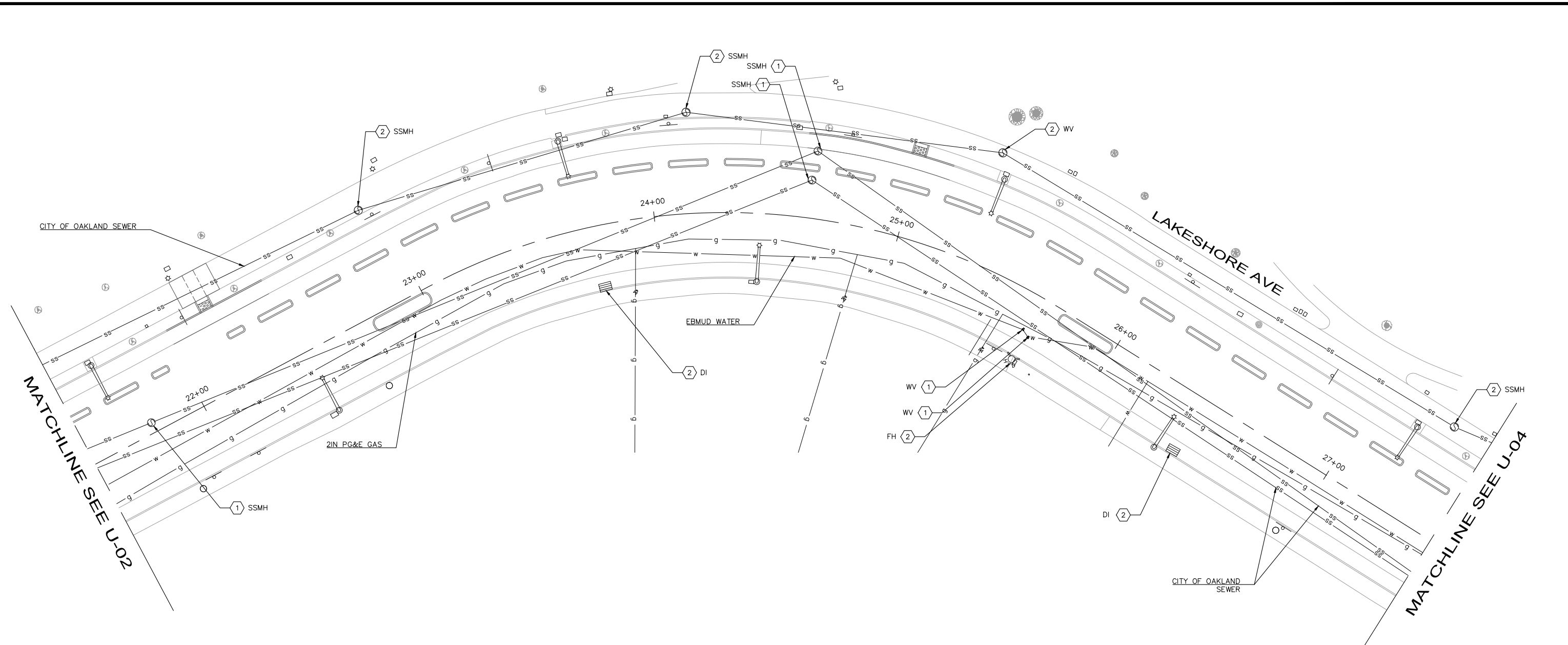
PROJECT NO.
1007299

SCALE:
AS SHOWN

DATE: 12/11/2024

SHEET NO.
U-02
59 OF 83

DRAWING NAME: K:\OAK_BDW\100709299 - Lakeshore Ave Cycle Trace\04_CADD\Plan_Sheets\U-XX.dwg
PLOT DATE: 12/12/24
PLOTTED BY: Priya Pallivathucal



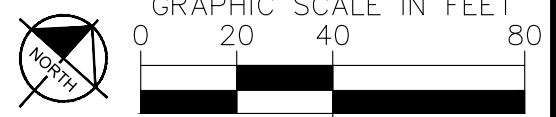
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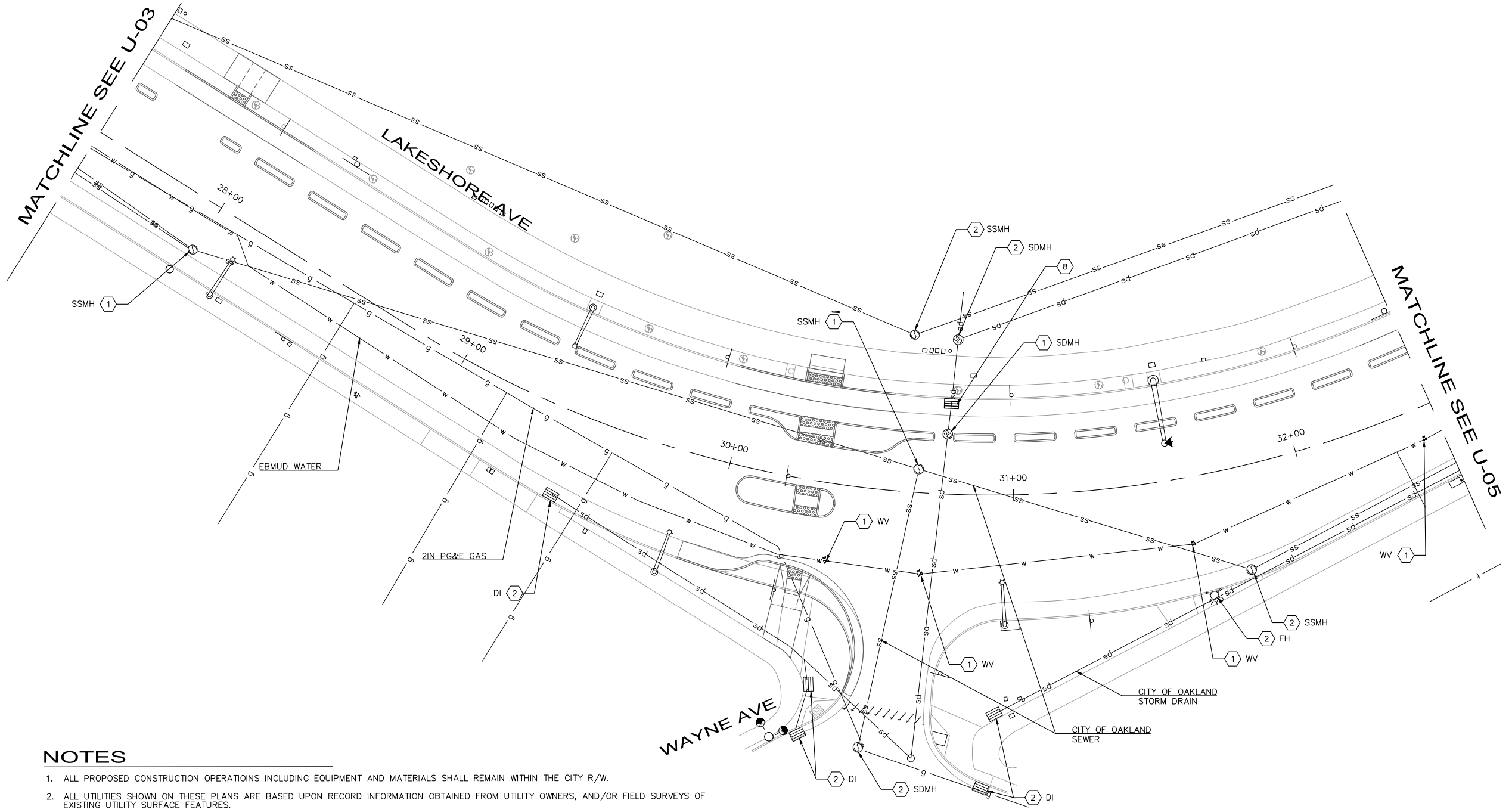
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
U-03
60 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RD\W\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\U-XX.dwg
PLOT DATE: 12/12/24
PLOTTED BY: Priya Pallivathucal



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8. FOR CHANNEL DRAIN DETAIL, SEE DRAINAGE DETAILS.
9. FOR TRAFFIC SIGNAL IMPROVEMENTS, SEE ELECTRICAL PLANS.

UTILITY NOTES

- ① ADJUST TO GRADE.
- ② EXISTING TO REMAIN.
- ⑧ REPLACE DRAINAGE INLET WITH HEEL PROOF AND ADA COMPLIANT GRATE.

PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

100% SUBMITTAL
 NOT FOR BID OR
 CONSTRUCTION

Kimley»Horn
 1300 Clay Street, Suite 900 Tel. No. (510)625-0712 ©2024
 Oakland, California 94612 Fax No. (916)608-0885

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 DESIGNED BY JORGE MORALES
 DRAWN BY TESSA KEMPER/PRIYA PALLIVATHUCAL



CITY OF OAKLAND
 DEPARTMENT OF TRANSPORTATION
 250 FRANK H. OGAWA PLAZA, SUITE 4314
 OAKLAND, CA 94612
 (510) 238-3437
 FAX (510) 238-7227

**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
 PLANS**

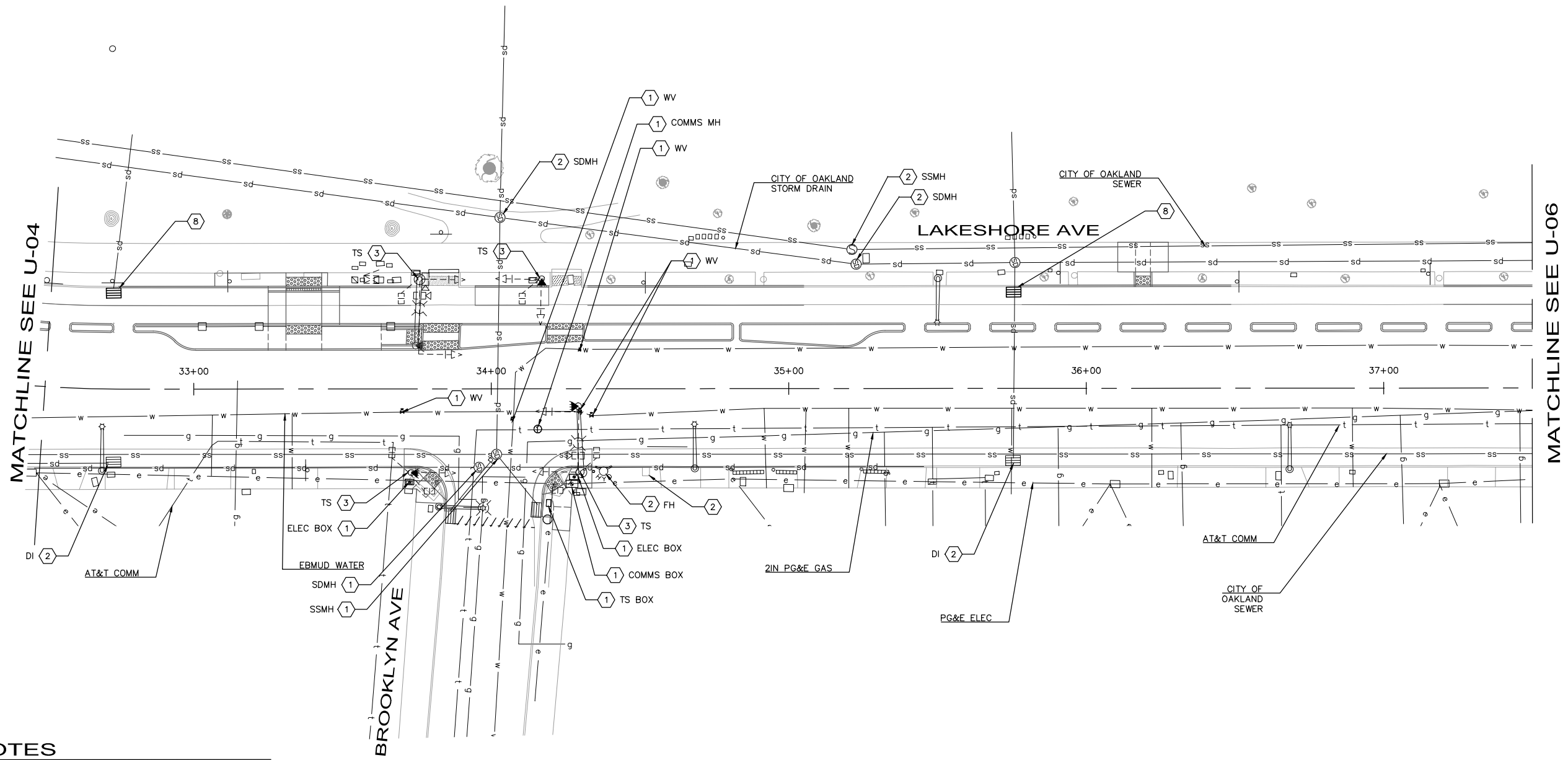
PROJECT NO.
1007299

SCALE:
 AS SHOWN

DATE: 12/11/2024

SHEET NO.
 U-04
 61 OF 83

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\U-XX.dwg
 PLOT DATE: 12/12/24
 PLOTTED BY: Priya Pallivathucal

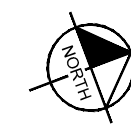


NOTES

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UTILITY NOTES

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- ② EXISTING TO REMAIN.
- ③ PROTECT IN PLACE.
- ⑧ REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
PLANS**

PROJECT NO.
1007299

SCALE:
AS SHOWN

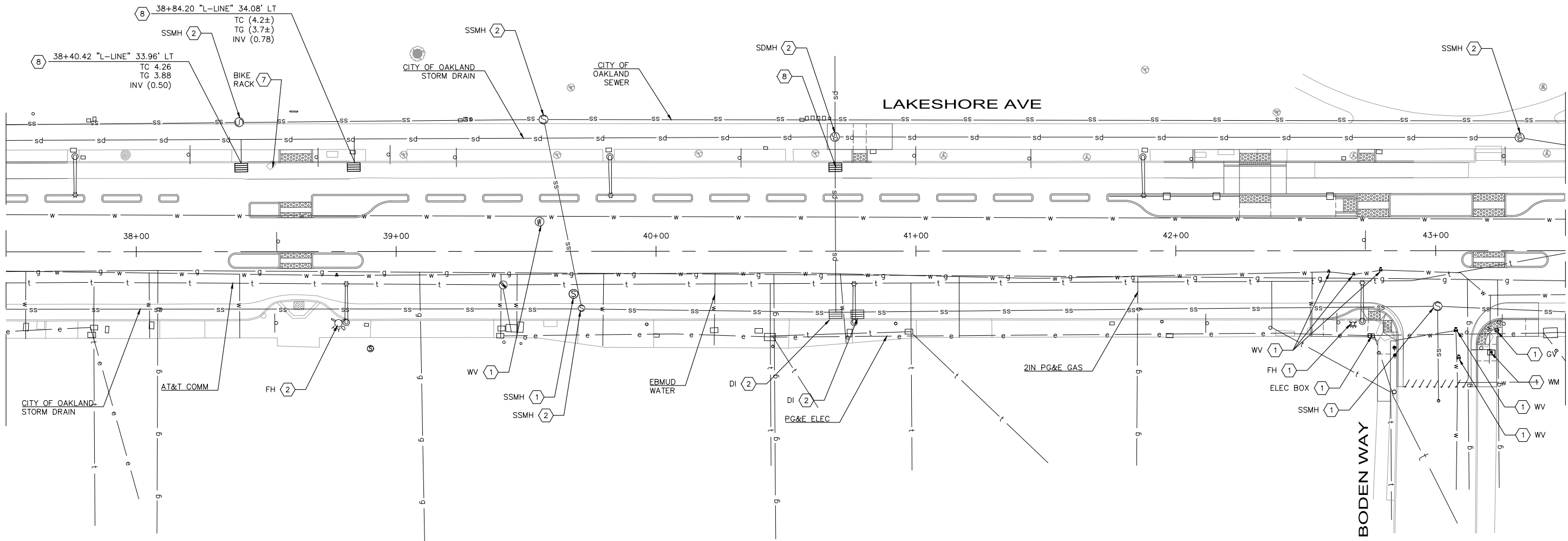
SHEET NO.
U-05
62 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Trace\04_CADD\Plan Sheets\U-XX.dwg
PLOT DATE: 12-13-24
PLOTTED BY: kay@gh.khandelwal

MATCHLINE SEE U-05

MATCHLINE SEE U-07

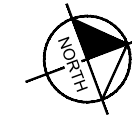


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UTILITY NOTES

- (1) ADJUST TO GRADE.
- (2) EXISTING TO REMAIN.
- (7) REMOVE AND RELOCATE. CONTRACTOR TO INSTALL AND COORDINATE FINAL LOCATION WITH ENGINEER.
- (8) REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.



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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
PLANS**

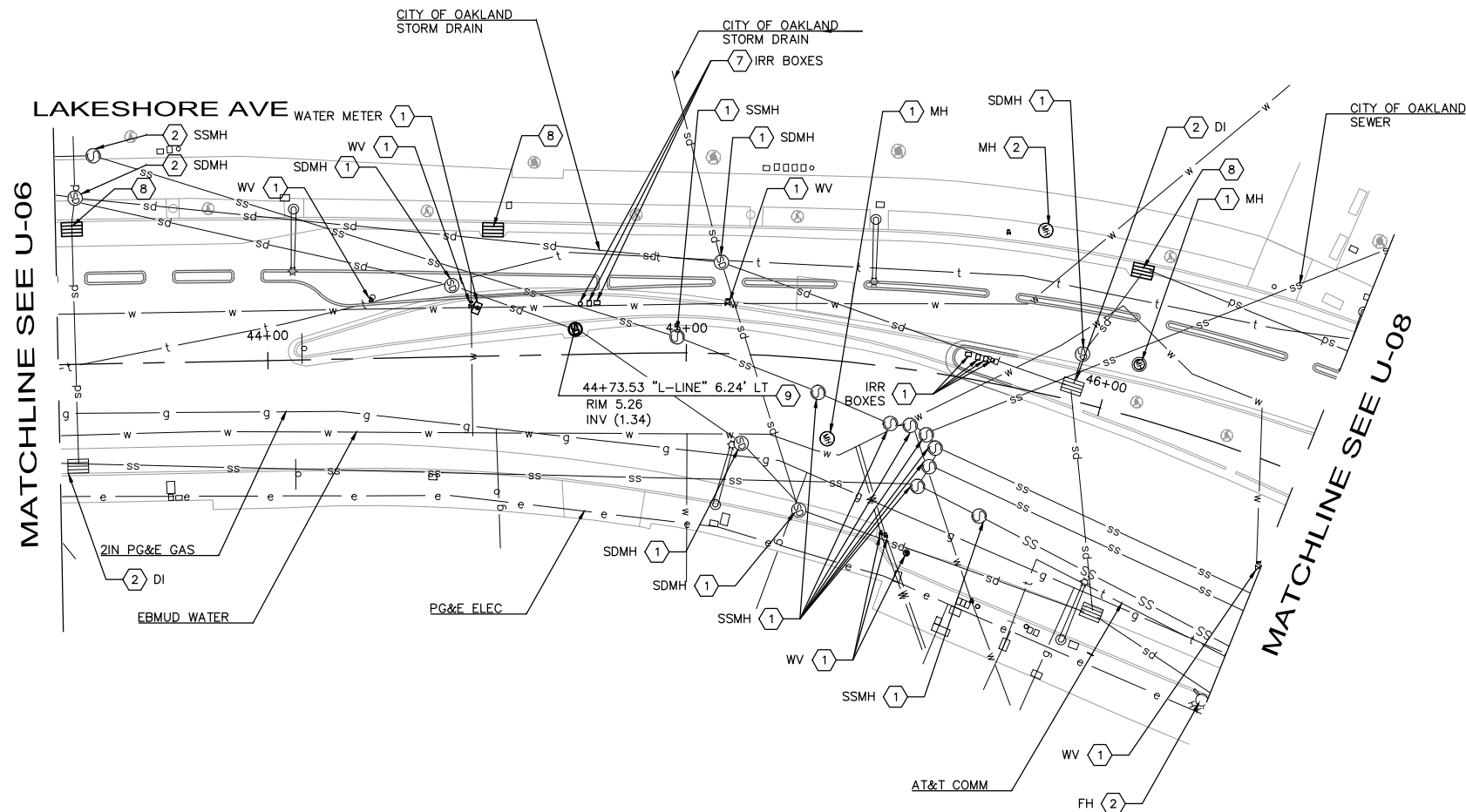
PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
U-06
63 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Trace\04_CADD\Plan_Sheets\U-XX.dwg
PLOT DATE: 12/12/24
PLOTTED BY: Priya Pallivathucal



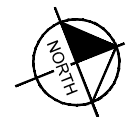
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- ⑧ REPLACE DRAINAGE INLET GRATE WITH HEEL PROOF AND ADA COMPLIANT GRATE.
- ⑨ MODIFY STORM DRAIN INLET TO STORM DRAIN MAINTENANCE HOLE. SEE DETAIL F ON SHEET DD-02.

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
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No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
 PLANS**

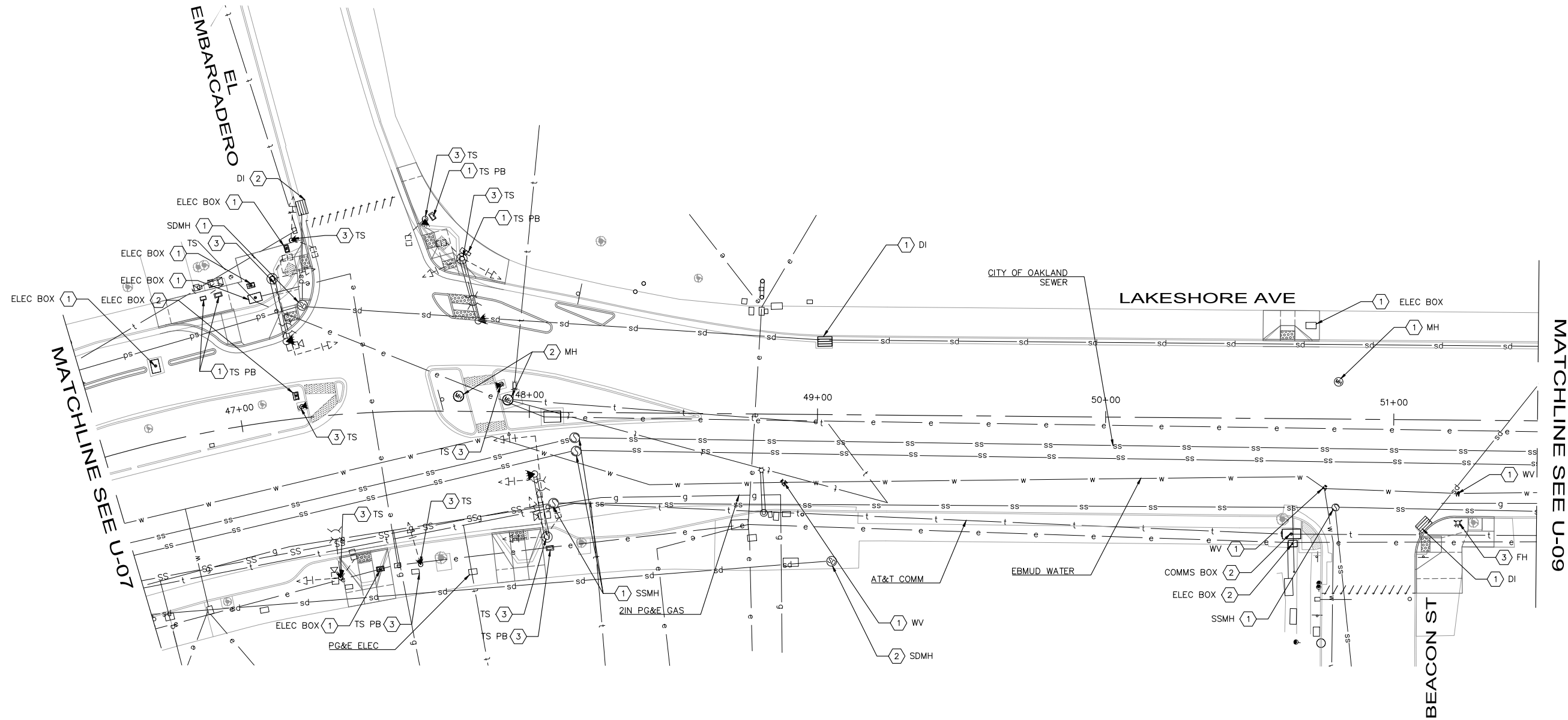
PROJECT NO.
1007299

SCALE:
 AS SHOWN

SHEET NO.
 U-07
 64 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\U-XX.dwg
 PLOT DATE: 12/12/24
 PLOTTED BY: Priya Pallivathucal



NOTES

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
 FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

**DRAINAGE AND UTILITY
 PLANS**

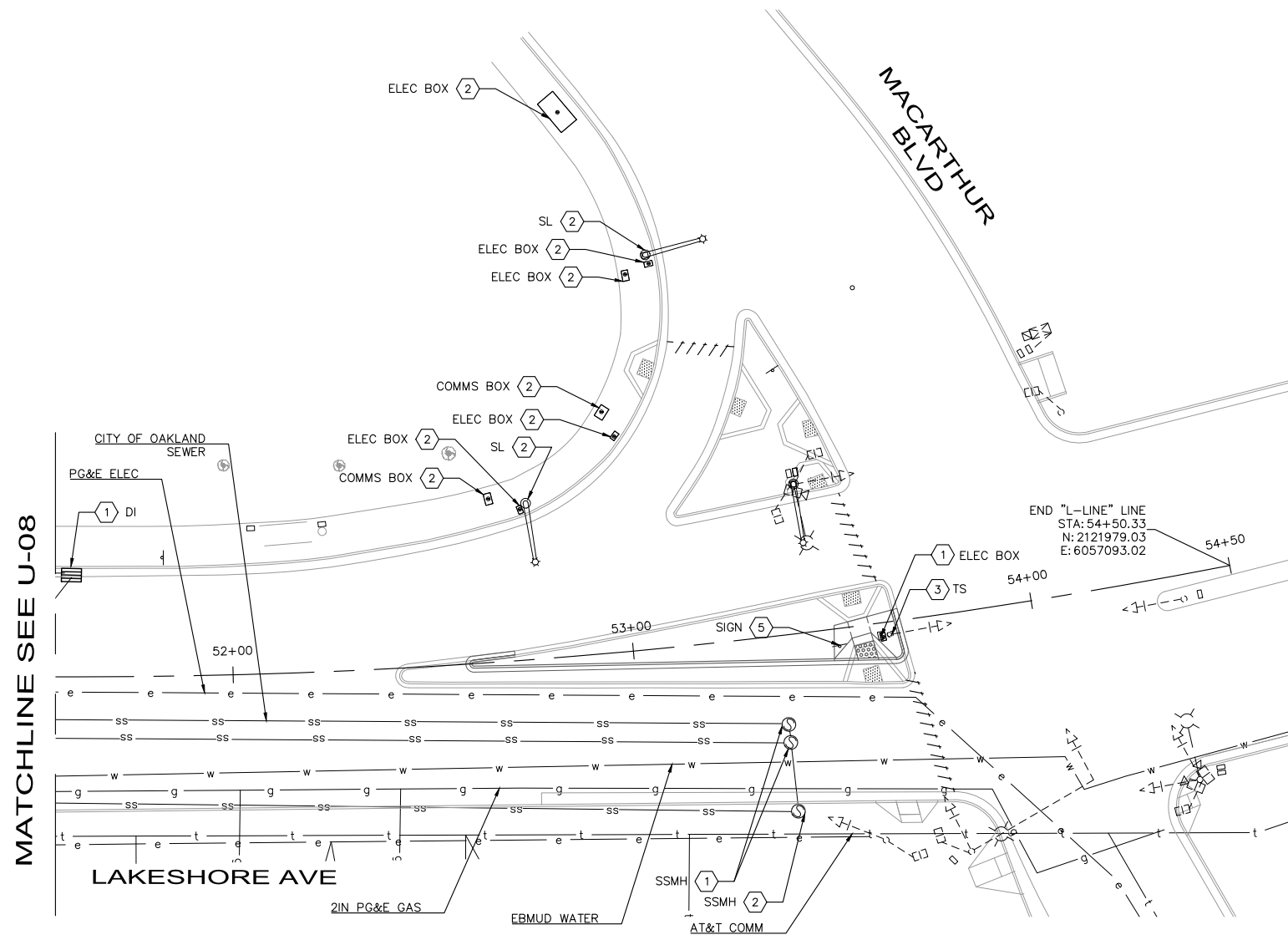
PROJECT NO.
1007299

SCALE:
 AS SHOWN

SHEET NO.
 U-08
65 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\U-X.dwg
 PLOT DATE: 12/12/24
 PLOTTED BY: Priya Pallivathucal



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UTILITY NOTES

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- ③ PROTECT IN PLACE.
- ⑤ REMOVE AND RESET SIGN AND POST. SEE SS SHEETS FOR MORE DETAILS.



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FROM E 18TH STREET TO MACARTHUR BOULEVARD**

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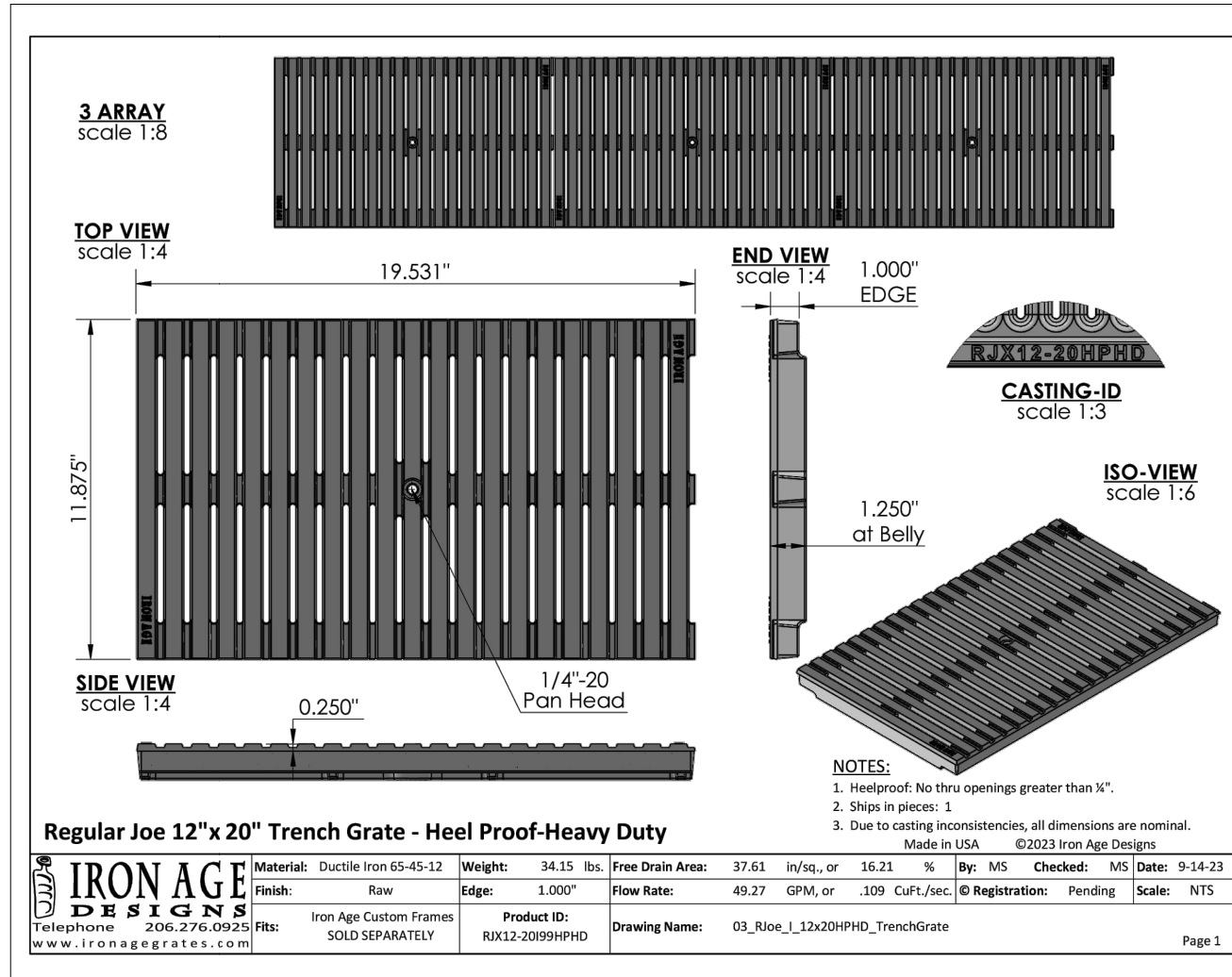
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1007299

SCALE:
AS SHOWN

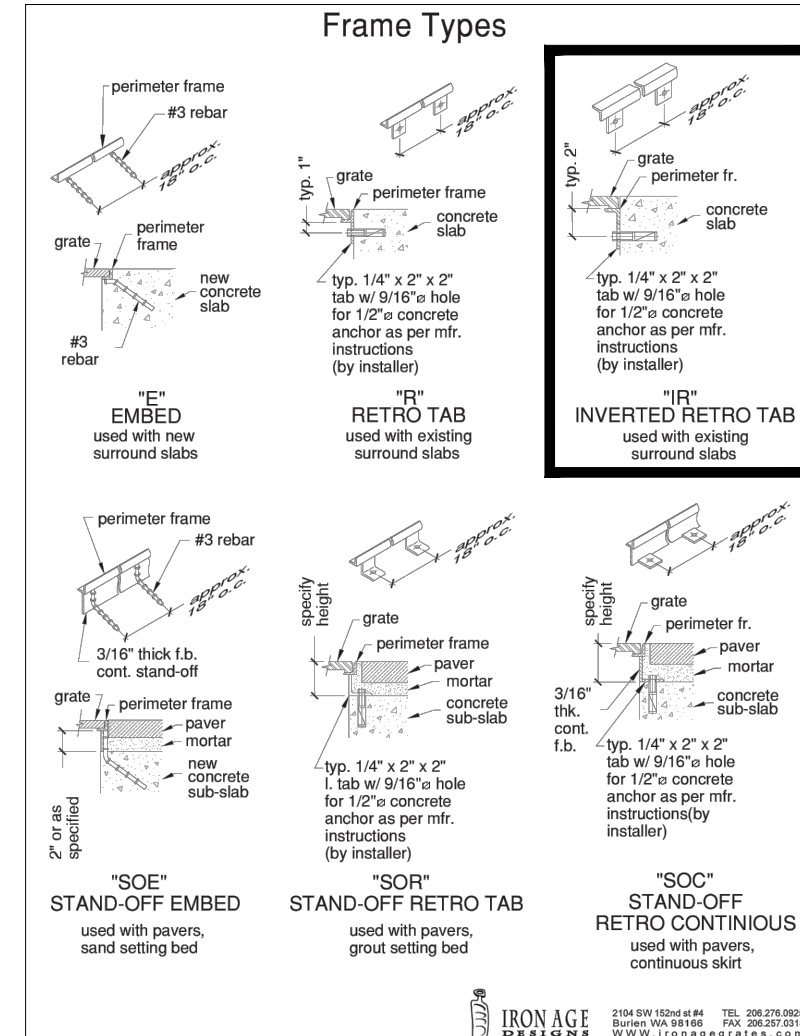
SHEET NO.
U-09
66 OF **83**

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDWY\08708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\U-XX.dwg
PLOT DATE: 12/12/24
PLOTTED BY: Priya Pallivathucal



DETAIL A:
TRENCH GRATE DETAIL



DETAIL B:
TRENCH GRATE FRAME DETAIL

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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

DRAINAGE DETAILS

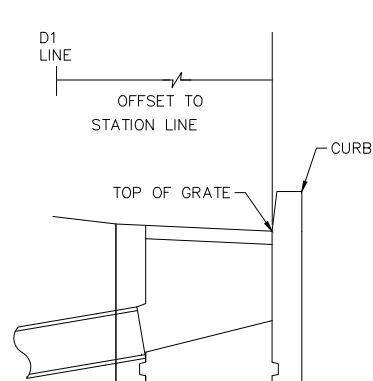
PROJECT NO.
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SCALE:
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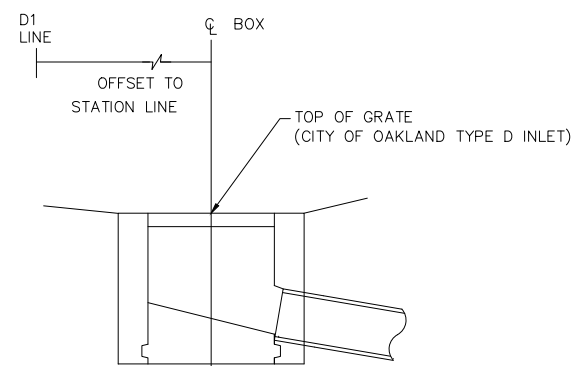
DATE: 12/11/2024

SHEET NO.
DD-01
67 OF 83

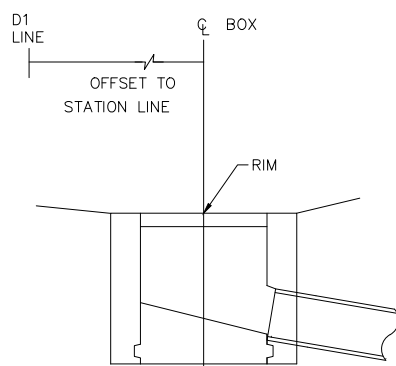
DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Trench\04_CADD\Plan_Sheets\DD-XK.dwg
PLOT DATE: 12-11-24
PLOTTED BY: Priya Pallivathucal



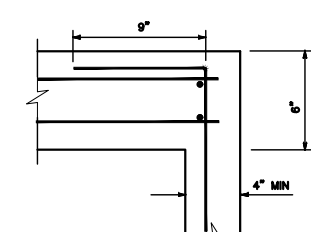
**SECTION A-A
DRAINAGE INLET STATION
AND OFFSET DETAIL**
NTS



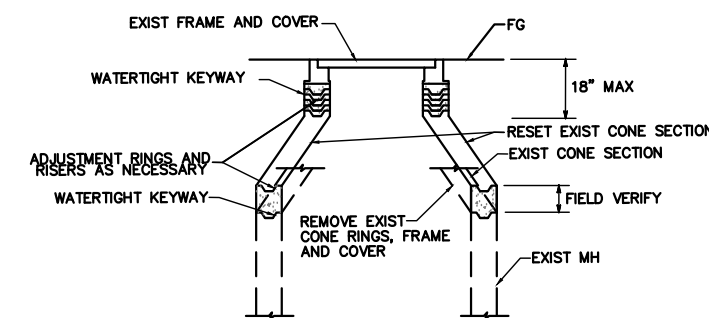
**SECTION B-B
FIELD DRAINAGE INLET STATION
AND OFFSET DETAIL**
NTS



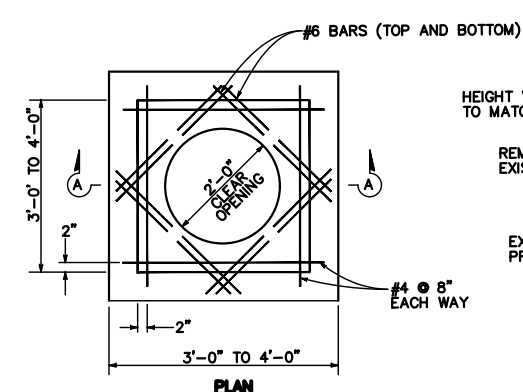
**SECTION C-C
MANHOLE STATION
AND OFFSET DETAIL**
NTS



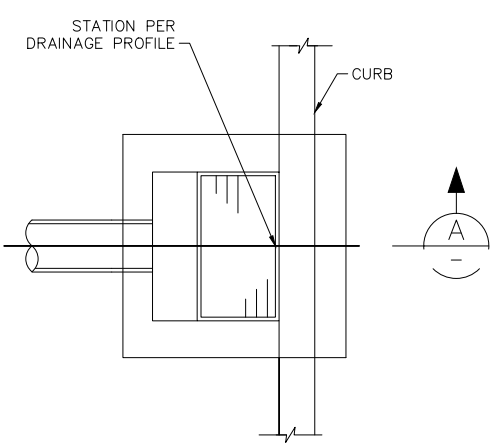
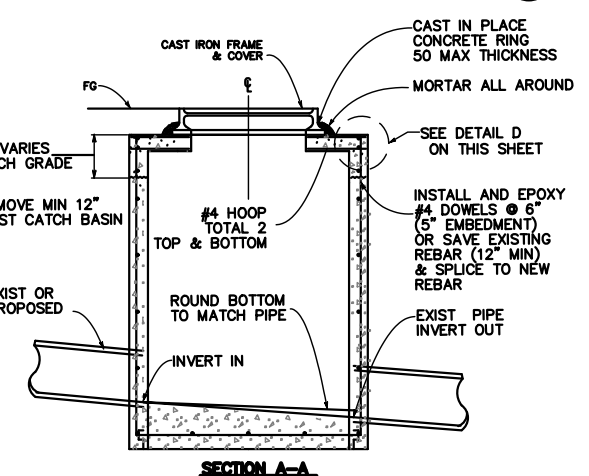
REBAR DETAILS (D)
NOT TO SCALE



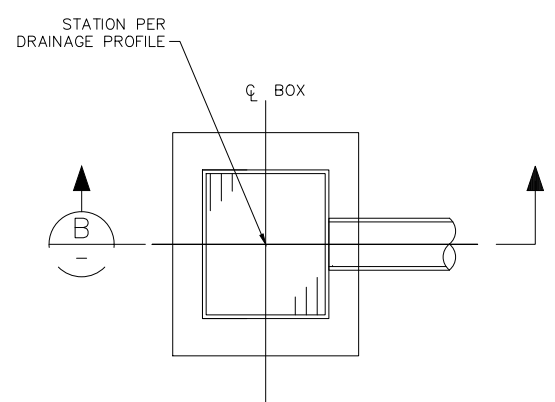
ADJUST MH COVER TO GRADE (E)
NOT TO SCALE



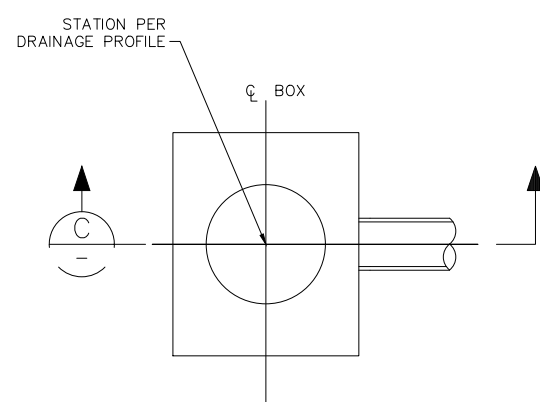
MODIFY INLET TO MAINTENANCE HOLE (F)
NOT TO SCALE



CITY OF OAKLAND TYPE "A" INLET (A)
NOT TO SCALE



CITY OF OAKLAND TYPE "D" INLET (B)
NOT TO SCALE



MAINTENANCE HOLE (C)
NOT TO SCALE

**DETAIL A: DRAINAGE
STRUCTURES
AND OFFSET DETAIL**
NTS

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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
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No.	DATE	BY	REFERENCE

DRAINAGE DETAILS

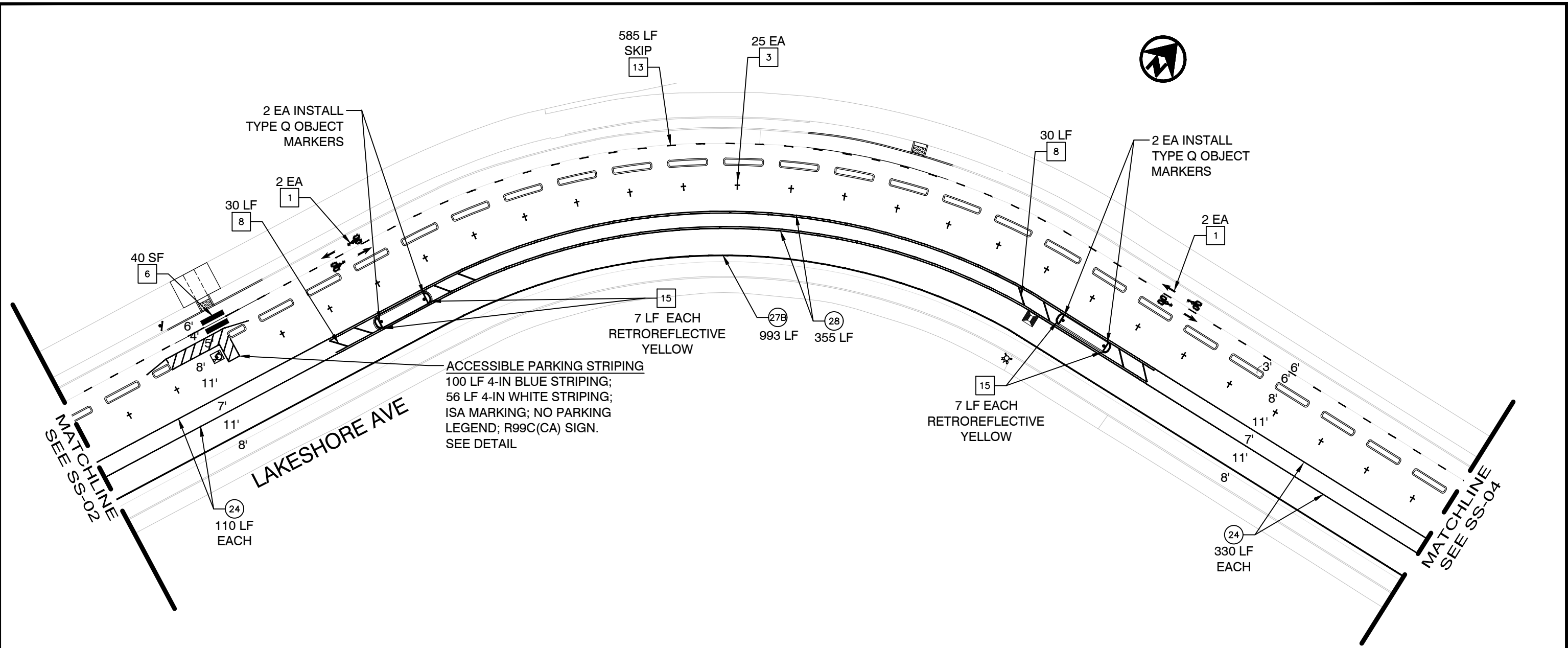
PROJECT NO.
1007299

SCALE:
NTS

DATE: 12/11/2024

SHEET NO.
DD-02
68 OF 83

DRAWING NAME: K:\OAK_BDW\100708204 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\DD-XK.dwg
12-11-24
PLOT DATE: 12/11/2024
PLOT BY: Priya Pallivathucal



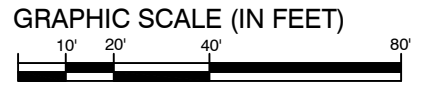
- LEGEND**
- [#] STRIPING CONSTRUCTION NOTE NUMBER
 - (f) DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
 - (TS) TRAFFIC SIGNAL
 - (W) CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
 - STOP PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
 - EXISTING SIGN ON EXISTING POST
 - FIRE HYDRANT
 - BLUE FIRE HYDRANT MARKER
 - EX EXISTING TO REMAIN rendered in grey
 - LF LINEAR FEET
 - SF SQUARE FEET
 - CR CURB RETURN
 - FC FACE OF CURB
 - NEW SIGN ON NEW POST
 - NEW SIGN ON EXISTING POST

- CONSTRUCTION NOTES**
- [1] BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
 - [2] SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
 - [3] PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
 - [4] BIKE DETECTOR SYMBOL
Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

- [5] RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- [6] CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- [7] WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- [8] YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- [9] REMOVE CONFLICTING STRIPING

- [10] REMOVE CONFLICTING MARKINGS
- [11] BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- [12] BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- [13] SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- [14] DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- [15] CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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FAX (510) 238-7227

LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON	No.	DATE	BY	REFERENCE
DESIGNED BY	DEP				
DRAWN BY	DEP				

SIGNAGE AND STRIPING PLANS

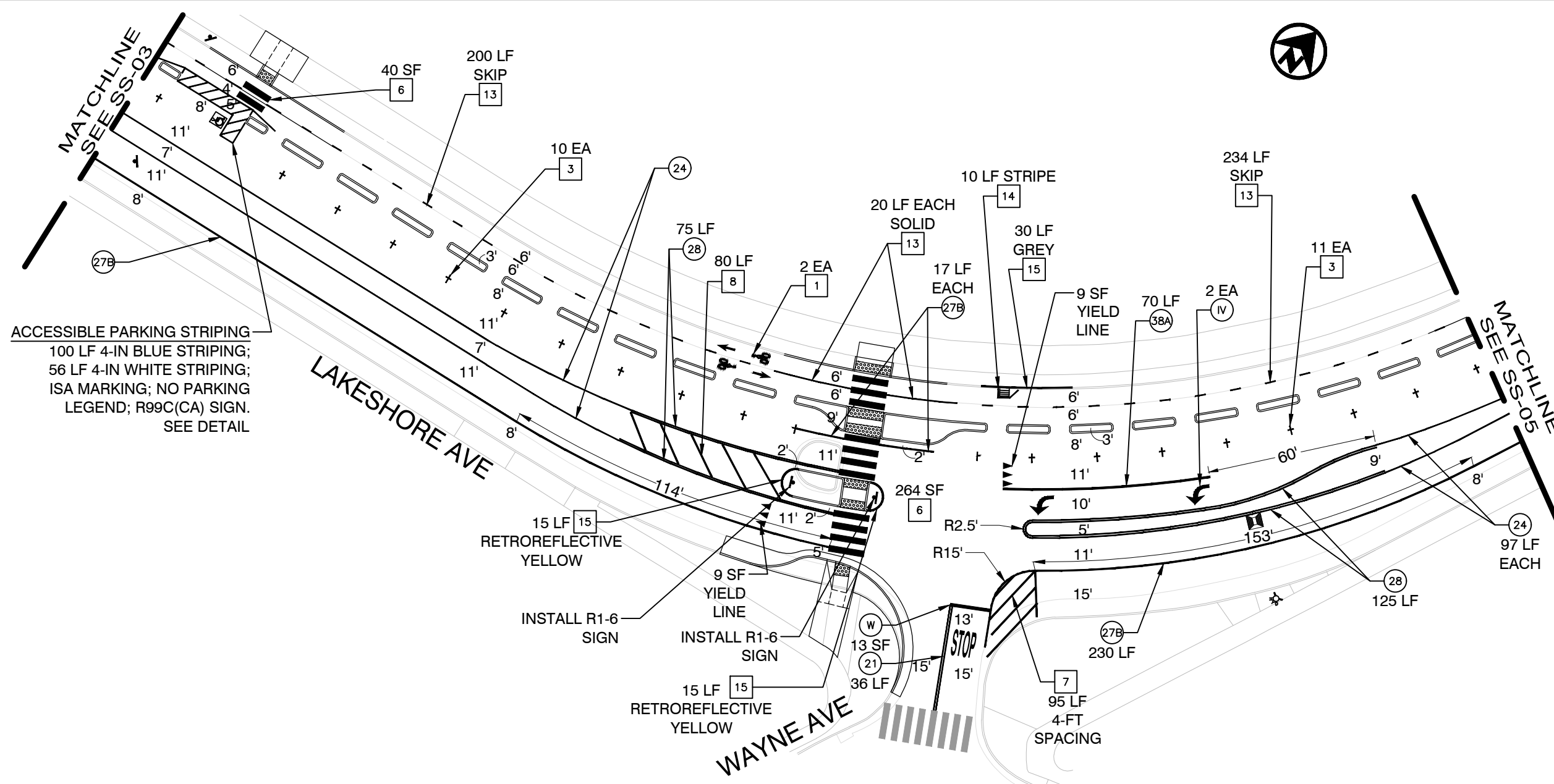
PROJECT NO.
1007299

SCALE:
1" = 40'

DATE: 12/12/2024

SHEET NO.
SS-03
71 OF 83

DRAWING NAME: \\oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerrittBvd\Lakeshore_E18thEtEmbarcaderoS-StripingDesign\0.CAD\SS-01_TO_08.dwg
PLOT DATE: 12/12/24
PLOTTED BY: pene04



ACCESSIBLE PARKING STRIPING
 100 LF 4-IN BLUE STRIPING;
 56 LF 4-IN WHITE STRIPING;
 ISA MARKING; NO PARKING
 LEGEND; R99C(CA) SIGN.
 SEE DETAIL

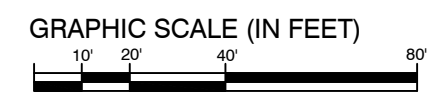
- LEGEND**
- # STRIPING CONSTRUCTION NOTE NUMBER
 - f DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
 - TS TRAFFIC SIGNAL
 - W CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
 - STOP PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
 - EXISTING SIGN ON EXISTING POST
 - ⊗ FIRE HYDRANT
 - BLUE FIRE HYDRANT MARKER
 - EX EXISTING TO REMAIN rendered in grey
 - LF LINEAR FEET
 - SF SQUARE FEET
 - CR CURB RETURN
 - FC FACE OF CURB
 - NEW SIGN ON NEW POST
 - NEW SIGN ON EXISTING POST

- CONSTRUCTION NOTES**
- 1 BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
 - 2 SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
 - 3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
 - BIKE DETECTOR SYMBOL
Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

- 5 RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- 6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- 7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9 REMOVE CONFLICTING STRIPING

- 10 REMOVE CONFLICTING MARKINGS
- 11 BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- 13 SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- 14 DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- 15 CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
 THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

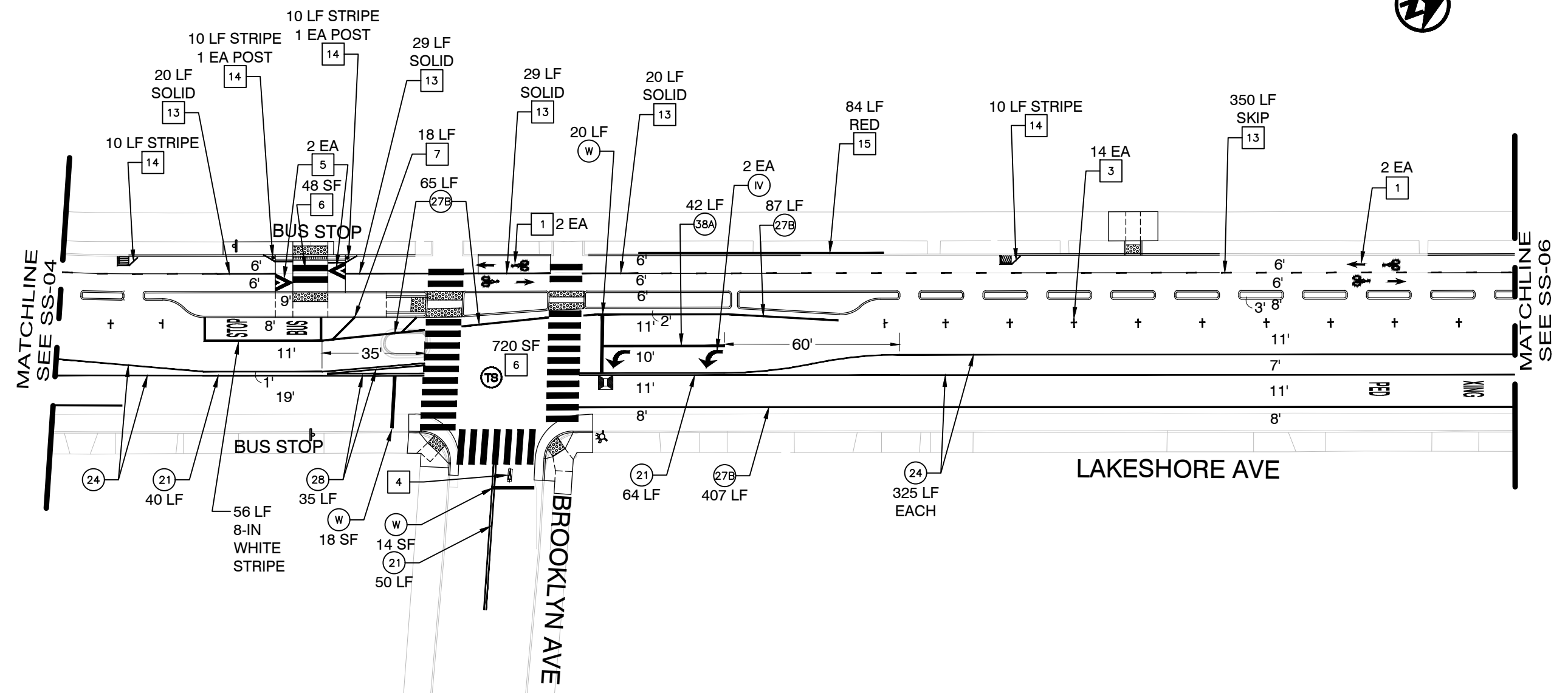
DRAFT NOT FOR CONSTRUCTION

CHECKED BY	DATE	BY	REFERENCE
JASON PATTON			
DESIGNED BY		DEP	
DRAWN BY		DEP	

SIGNAGE AND STRIPING PLANS

PROJECT NO. 1007299	
SCALE: 1" = 40'	SHEET NO. SS-04 72 OF 83
DATE: 12/12/2024	

DRAWING NAME: \\oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-Striping\LakeshoreAve-LakeMerritt\Bld\Lakeshore_E18thE1Embarcadero5-StripingDesign\0.CAD\SS-01_TO_08.dwg
 PLOT DATE: 12/12/24
 PLOTTED BY: pwa04



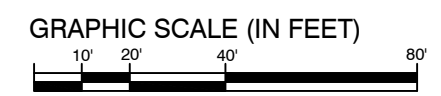
- LEGEND**
- # STRIPING CONSTRUCTION NOTE NUMBER
 - Ⓢ DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
 - Ⓣ TRAFFIC SIGNAL
 - Ⓜ CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
 - STOP PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
 - EXISTING SIGN ON EXISTING POST
 - Ⓜ FIRE HYDRANT
 - Ⓜ BLUE FIRE HYDRANT MARKER
 - EX EXISTING TO REMAIN rendered in grey
 - LF LINEAR FEET
 - SF SQUARE FEET
 - CR CURB RETURN
 - FC FACE OF CURB
 - NEW SIGN ON NEW POST
 - NEW SIGN ON EXISTING POST

- CONSTRUCTION NOTES**
- 1 BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
 - 2 SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
 - 3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
 - BIKE DETECTOR SYMBOL
4 Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

- 5 RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- 6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- 7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9 REMOVE CONFLICTING STRIPING

- 10 REMOVE CONFLICTING MARKINGS
- 11 BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- 13 SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- 14 DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- 15 CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON	No.	DATE	BY	REFERENCE
DESIGNED BY	DEP				
DRAWN BY	DEP				

SIGNAGE AND STRIPING PLANS

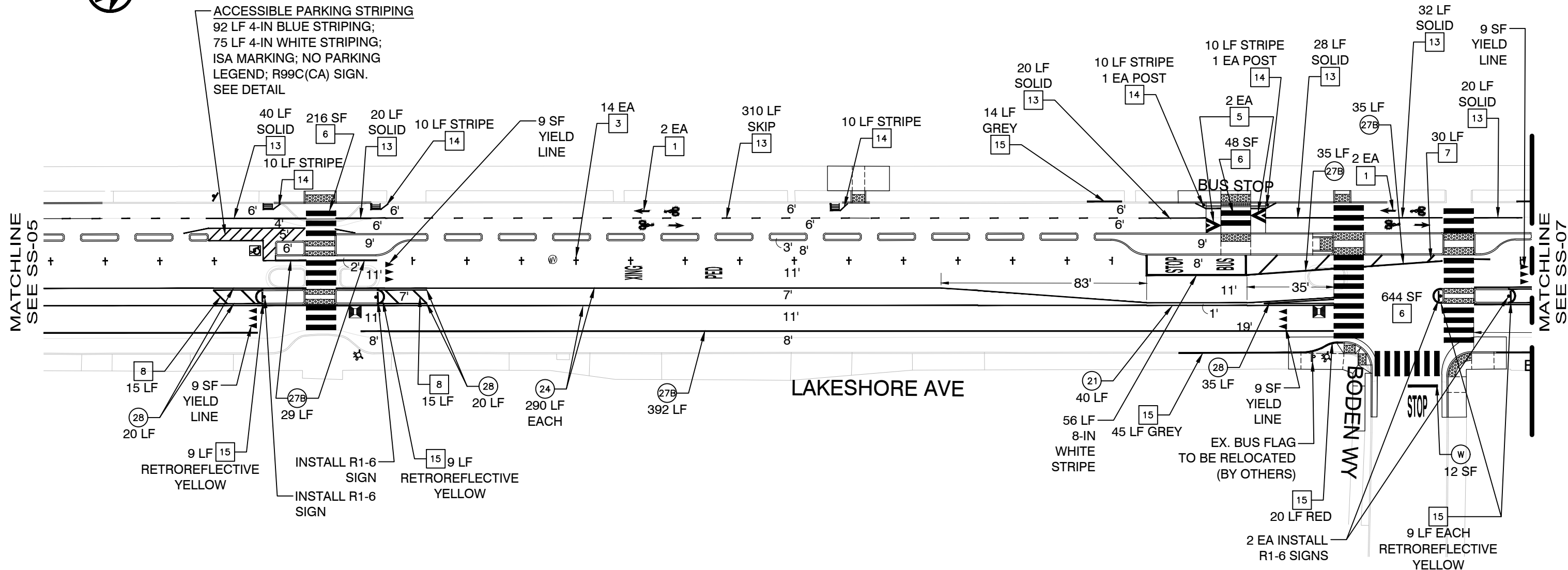
PROJECT NO.
1007299

SCALE:
1" = 40'

DATE: 12/12/2024

SHEET NO.
SS-05
73 OF 83

DRAWING NAME: \\oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerritt\Bld\Lakeshore_E18th-El-Embarcadero-5-StripingDesign\0.CADD\SS-01_TO_06.dwg
PLOT DATE: 12/12/24
PLOT BY: pene04



LEGEND

#	STRIPING CONSTRUCTION NOTE NUMBER	⊗	FIRE HYDRANT
Ⓢ	DETAIL NUMBER PER CALTRANS STD PLANS Traffic lines as cardinal number Arrows as roman numeral	EX	EXISTING TO REMAIN rendered in grey
Ⓣ	TRAFFIC SIGNAL	LF	LINEAR FEET
Ⓦ	CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)	SF	SQUARE FEET
STOP	PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown	CR	CURB RETURN
Ⓟ	EXISTING SIGN ON EXISTING POST	FC	FACE OF CURB
		NEW SIGN ON NEW POST	
		NEW SIGN ON EXISTING POST	

CONSTRUCTION NOTES

1	BIKE LANE SYMBOL & ARROW Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
2	SHARROW Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
3	PARKING TEE Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
4	BIKE DETECTOR SYMBOL Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

5	RAISED BIKEWAY CROSSING MARKING Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.	10	REMOVE CONFLICTING MARKINGS
6	CONTINENTAL CROSSWALK Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.	11	BIKE BOX OR 2-STAGE LEFT TURN BOX Install bike box or 2-stage left turn box as noted on plan. See details.
7	WHITE BUFFER STRIPING Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.	12	BIKE INTERSECTION MARKINGS Install bike intersection markings as noted. See detail.
8	YELLOW BUFFER STRIPING Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.	13	SEPARATED BIKE LANE CENTERLINE STRIPING Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
9	REMOVE CONFLICTING STRIPING	14	DRAINAGE FEATURE EDGELINE STRIPING Install 4 inch white stripe and/or channelizing posts as noted. See details.
		15	CURB PAINT Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

GRAPHIC SCALE (IN FEET)
0' 10' 20' 40' 80'

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(510) 238-3437
FAX (510) 238-7227

LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

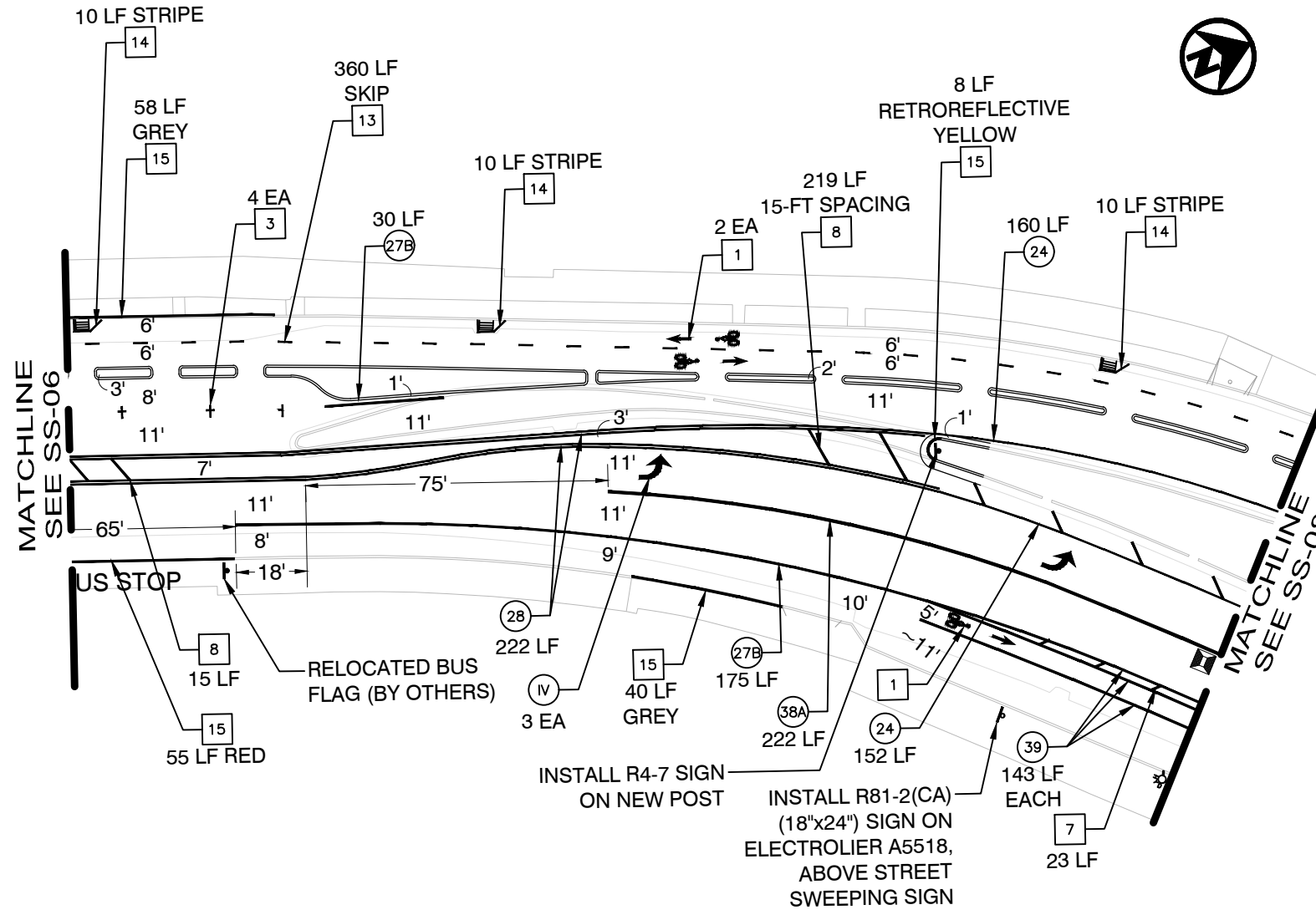
DRAFT NOT FOR CONSTRUCTION

CHECKED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
DEP				
DRAWN BY				
DEP				

SIGNAGE AND STRIPING PLANS

PROJECT NO. 1007299	
SCALE: 1" = 40'	SHEET NO. SS-06
DATE: 12/12/2024	74 OF 83

DRAWING NAME: \Oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerritt\Bld\Lakeshore_E18thEI-Embarkadero-5-StripingDesign\0.CADD\SS-01_TO_06.dwg
12/12/24
PLOT DATE:
PLOTTED BY: pene04



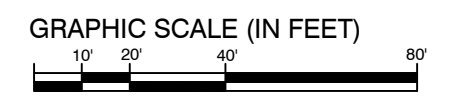
- LEGEND**
- # STRIPING CONSTRUCTION NOTE NUMBER
 - Ⓜ DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
 - Ⓢ TRAFFIC SIGNAL
 - Ⓦ CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
 - STOP PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
 - EXISTING SIGN ON EXISTING POST
 - ⓧ FIRE HYDRANT
 - Ⓜ BLUE FIRE HYDRANT MARKER
 - EX EXISTING TO REMAIN rendered in grey
 - LF LINEAR FEET
 - SF SQUARE FEET
 - CR CURB RETURN
 - FC FACE OF CURB
 - NEW SIGN ON NEW POST
 - NEW SIGN ON EXISTING POST

- CONSTRUCTION NOTES**
- 1 BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
 - 2 SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
 - 3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
 - 4 BIKE DETECTOR SYMBOL
Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

- 5 RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- 6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- 7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9 REMOVE CONFLICTING STRIPING

- 10 REMOVE CONFLICTING MARKINGS
- 11 BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- 13 SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- 14 DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- 15 CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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DEPARTMENT OF TRANSPORTATION
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(510) 238-3437
FAX (510) 238-7227

LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON	No.	DATE	BY	REFERENCE
DESIGNED BY	DEP				
DRAWN BY	DEP				

SIGNAGE AND STRIPING PLANS

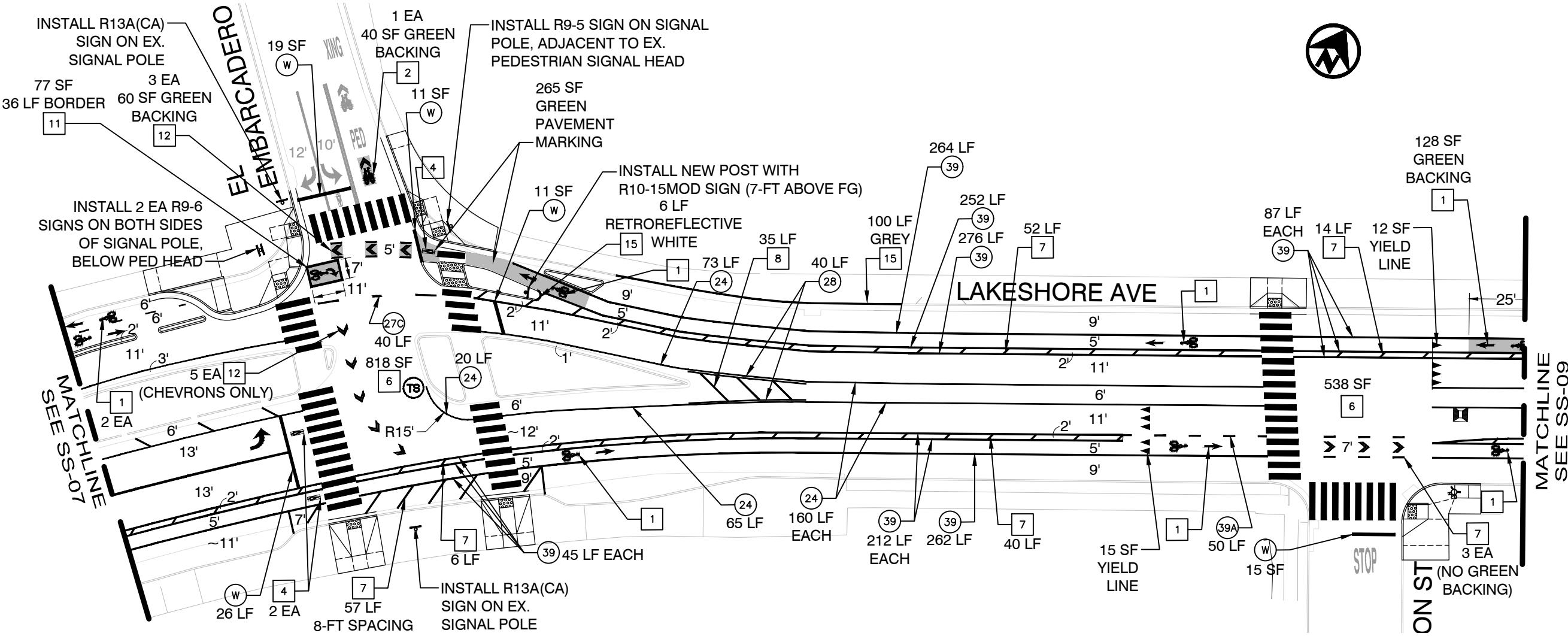
PROJECT NO.
1007299

SCALE:
1" = 40'

SHEET NO.
SS-07
75 OF 83

DATE: 12/12/2024

DRAWING NAME: \\oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\Lakeshore\ave-LakeMerritt\Bvd\Lakeshore_E18th-EI\Embarcadero\5-Striping\Design\0.CAD\SS-01_TO_08.dwg
PLOT DATE: 12/12/24
PLOTTED BY: pene04



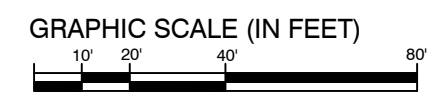
- LEGEND**
- # STRIPING CONSTRUCTION NOTE NUMBER
 - Ⓜ DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
 - Ⓣ TS TRAFFIC SIGNAL
 - Ⓜ CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
 - STOP PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
 - EXISTING SIGN ON EXISTING POST
 - Ⓜ FIRE HYDRANT
 - Ⓜ BLUE FIRE HYDRANT MARKER
 - EX EXISTING TO REMAIN rendered in grey
 - LF LINEAR FEET
 - SF SQUARE FEET
 - CR CURB RETURN
 - FC FACE OF CURB
 - NEW SIGN ON NEW POST
 - NEW SIGN ON EXISTING POST

- CONSTRUCTION NOTES**
- 1 BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
 - 2 SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
 - 3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
 - BIKE DETECTOR SYMBOL
Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.

- 5 RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- 6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- 7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9 REMOVE CONFLICTING STRIPING

- 10 REMOVE CONFLICTING MARKINGS
- 11 BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- 13 SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- 14 DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- 15 CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
DEP				
DRAWN BY				
DEP				

SIGNAGE AND STRIPING PLANS

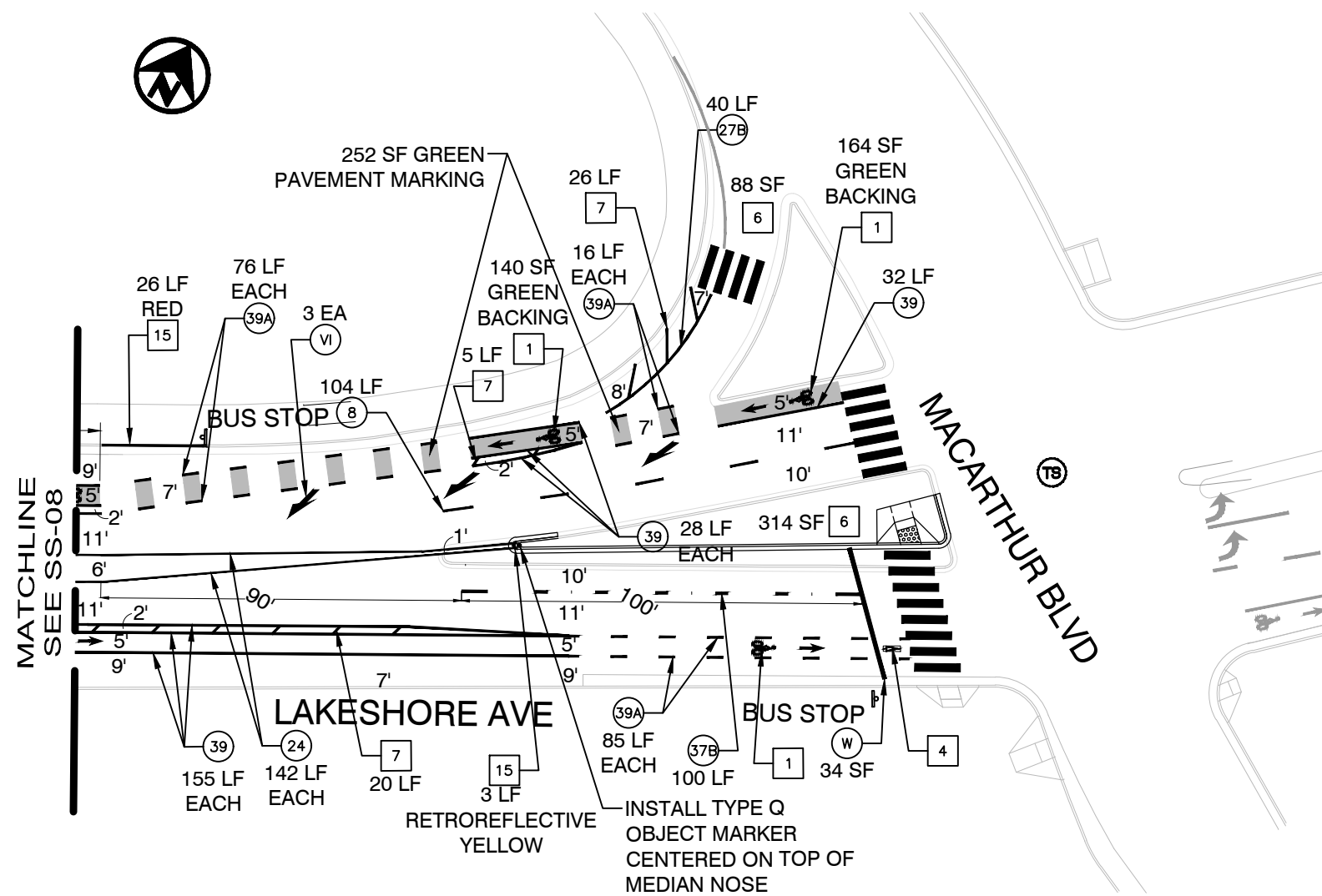
PROJECT NO.
1007299

SCALE:
1" = 40'

SHEET NO.
SS-08
76 OF 83

DATE: 12/12/2024

DRAWING NAME: \work\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerritt\Bld\Lakeshore_E18thEEmbarcadero\5-StripingDesign\0.CADD\SS-01_TO_08.dwg
PLOT DATE: 12/12/24
PLOTTED BY: pwa04



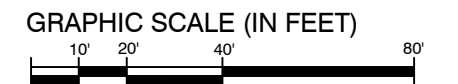
LEGEND

- # STRIPING CONSTRUCTION NOTE NUMBER
- Ⓢ DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
- Ⓣ TS TRAFFIC SIGNAL
- Ⓦ W CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
- PAVEMENT MARKING WORDS PER CALTRANS STD PLANS as shown
- EXISTING SIGN ON EXISTING POST
- Ⓜ FIRE HYDRANT
- BLUE FIRE HYDRANT MARKER
- EX EXISTING TO REMAIN rendered in grey
- LF LINEAR FEET
- SF SQUARE FEET
- CR CURB RETURN
- FC FACE OF CURB
- NEW SIGN ON NEW POST
- NEW SIGN ON EXISTING POST

CONSTRUCTION NOTES

- 1 BIKE LANE SYMBOL & ARROW
Install bike lane symbol and arrow centered in bike lane, per CA MUTCD Figure 9C-3-B, as shown on plans.
- 2 SHARROW
Install shared roadway bicycle marking, per Caltrans Standard Plan A24C, as shown on plans.
- 3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
- BIKE DETECTOR SYMBOL
4 Install bike detector pavement marking, per CA MUTCD Figure 9C-7.1 foot back from limit line and centered in lane, or as noted.
- 5 RAISED BIKEWAY CROSSING MARKING
Install speed table marking, centered in bike lane on near-side ramp, per CA MUTCD Figure 3B-30, Option A.
- 6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, spaced 4 foot on-center, white unless noted otherwise.
- 7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9 REMOVE CONFLICTING STRIPING
- 10 REMOVE CONFLICTING MARKINGS
- 11 BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.
- 13 SEPARATED BIKE LANE CENTERLINE STRIPING
Install 4 inch yellow striping per CA MUTCD Figure 9C-2, solid or skip pattern (9 foot gap, 3 foot stripe) as noted.
- 14 DRAINAGE FEATURE EDGELINE STRIPING
Install 4 inch white stripe and/or channelizing posts as noted. See details.
- 15 CURB PAINT
Install curb paint. Color as noted.

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION
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(510) 238-3437
FAX (510) 238-7227

LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON	No.	DATE	BY	REFERENCE
DESIGNED BY	DEP				
DRAWN BY	DEP				

SIGNAGE AND STRIPING PLANS

PROJECT NO.
1007299

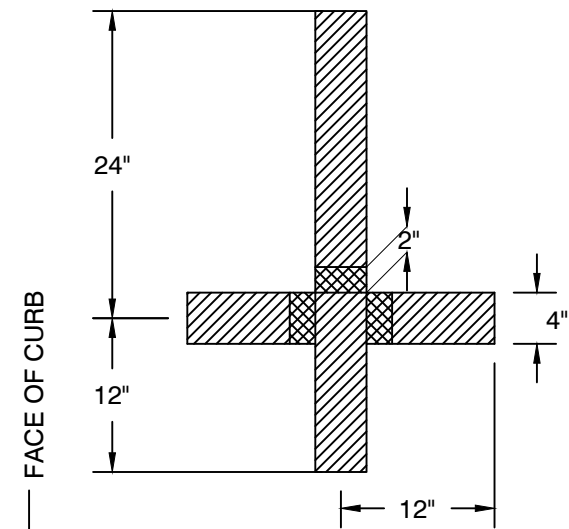
SCALE:
1" = 40'

DATE: 12/12/2024

SHEET NO.
SS-09
77 OF 83

DRAWING NAME: \\oakland\pwa\Transportation\Bike-Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerrittBld\Lakeshore_E18thE1Embarcadero5StripingDesign\0.CADD\SS-01_TO_09.dwg
12/12/24
PLOT DATE:
PLOTTED BY: pene04

PARKING TEE DETAIL



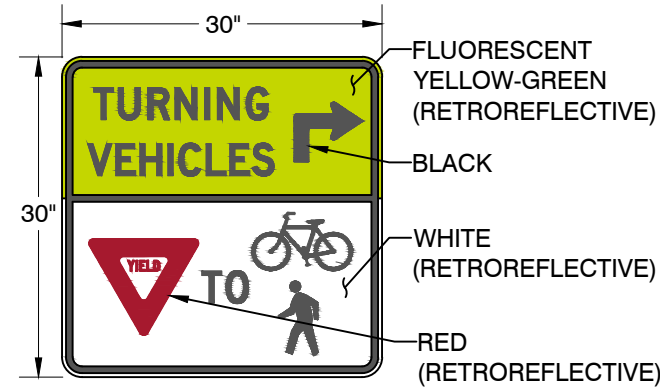
OPTIONAL 2" GAPS FOR STENCIL-BASED APPLICATIONS

20' (TYPICAL) 18' (MINIMUM) 22' (TYPICAL) 8' (TYPICAL) 7' (MINIMUM)

RED CURB

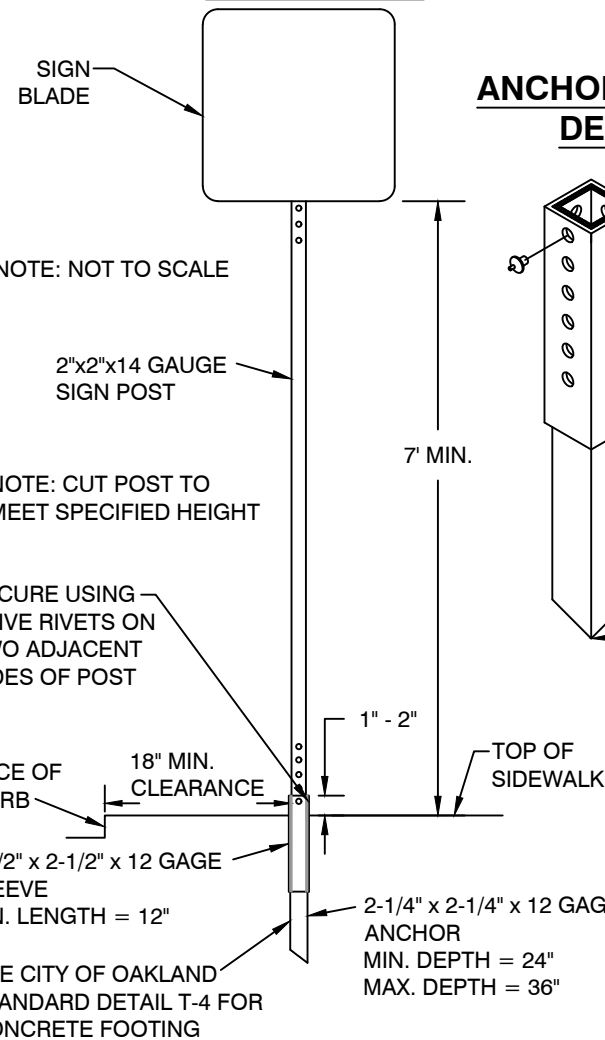
FACE OF CURB

R10-15MOD SIGN DETAIL



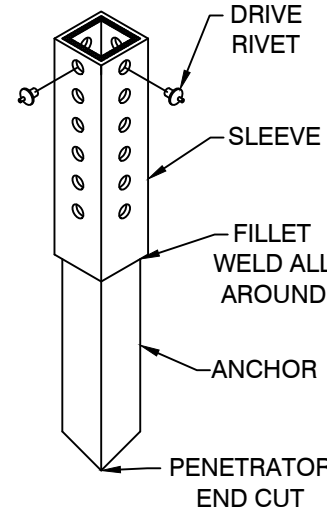
FLUORESCENT YELLOW-GREEN (RETROREFLECTIVE)
BLACK
WHITE (RETROREFLECTIVE)
RED (RETROREFLECTIVE)

STANDARD SIGN POST DETAIL



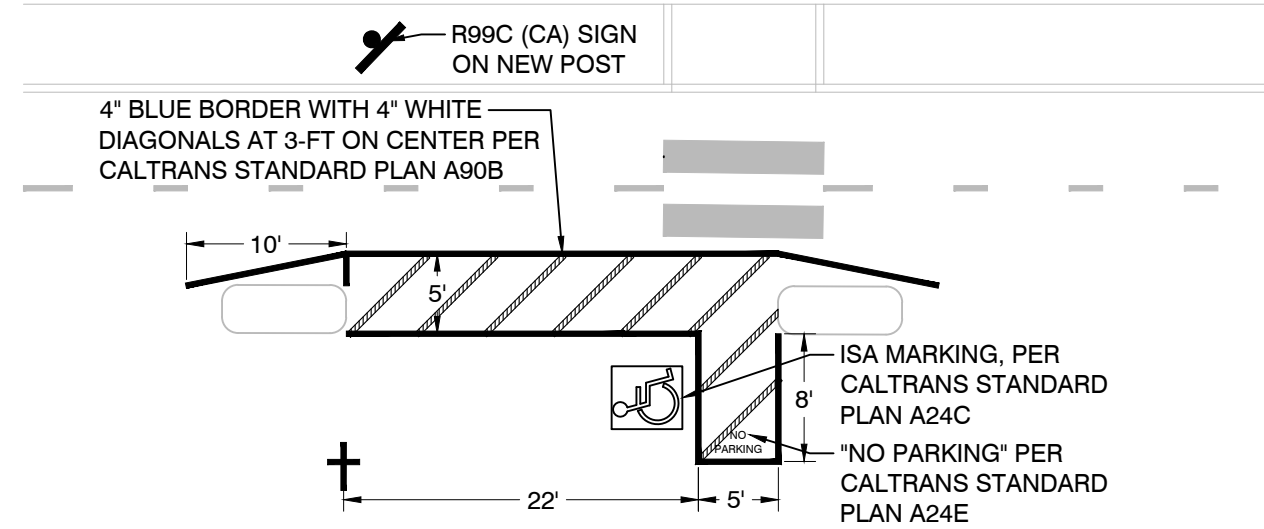
SIGN BLADE
NOTE: NOT TO SCALE
2"x2"x14 GAUGE SIGN POST
NOTE: CUT POST TO MEET SPECIFIED HEIGHT
7' MIN.
1" - 2"
TOP OF SIDEWALK
18" MIN. CLEARANCE
FACE OF CURB
2-1/2" x 2-1/2" x 12 GAGE SLEEVE MIN. LENGTH = 12"
2-1/4" x 2-1/4" x 12 GAGE ANCHOR MIN. DEPTH = 24" MAX. DEPTH = 36"
SEE CITY OF OAKLAND STANDARD DETAIL T-4 FOR CONCRETE FOOTING

ANCHOR/SLEEVE DETAIL



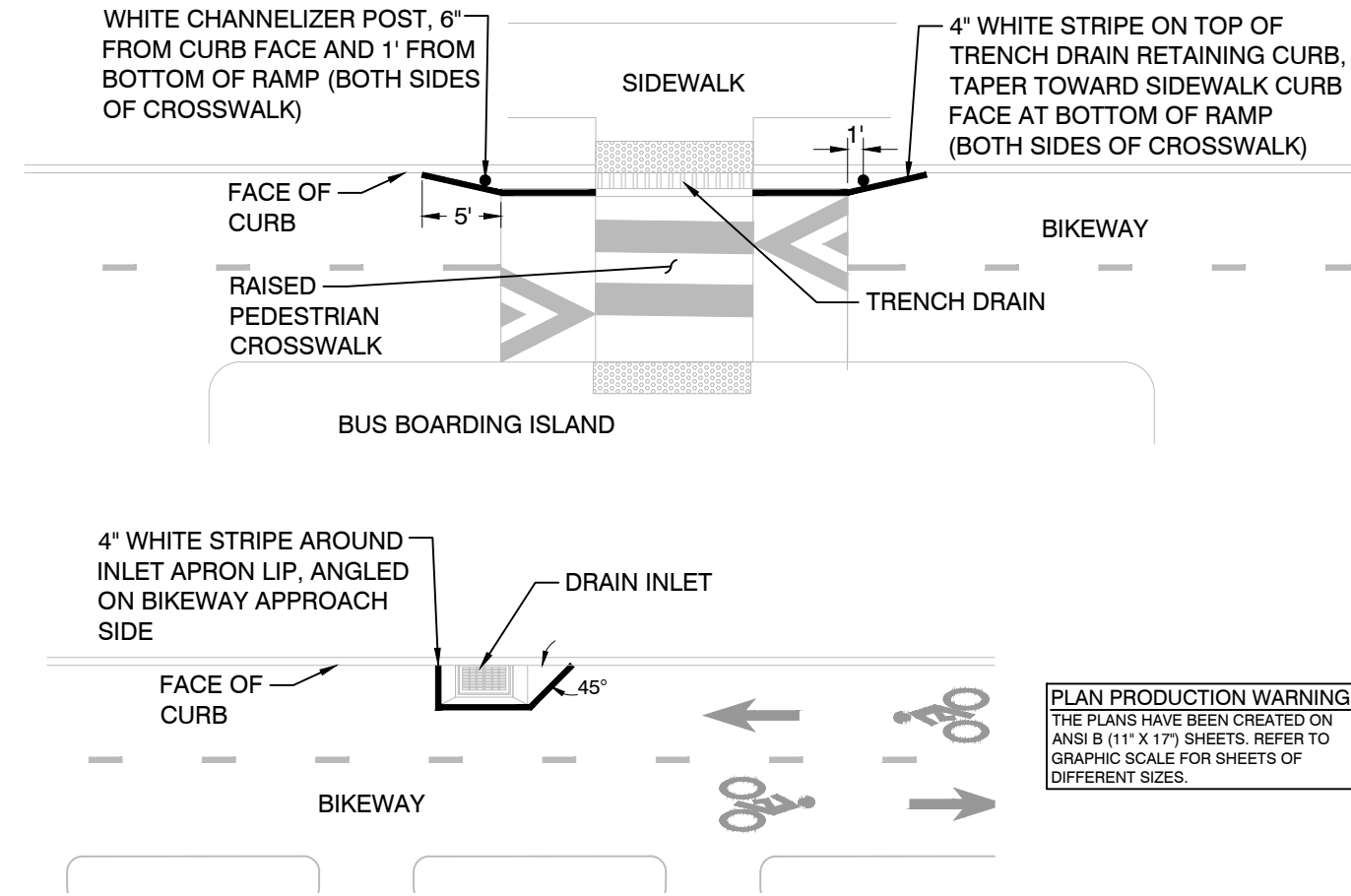
DRIVE RIVET
SLEEVE
FILLET WELD ALL AROUND
ANCHOR
PENETRATOR END CUT

ACCESSIBLE PARKING STALL DETAIL



R99C (CA) SIGN ON NEW POST
4" BLUE BORDER WITH 4" WHITE DIAGONALS AT 3-FT ON CENTER PER CALTRANS STANDARD PLAN A90B
10'
5'
8'
22'
5'
ISA MARKING, PER CALTRANS STANDARD PLAN A24C
"NO PARKING" PER CALTRANS STANDARD PLAN A24E

DRAINAGE FEATURE EDGE-LINE DETAILS



WHITE CHANNELIZER POST, 6" FROM CURB FACE AND 1' FROM BOTTOM OF RAMP (BOTH SIDES OF CROSSWALK)
4" WHITE STRIPE ON TOP OF TRENCH DRAIN RETAINING CURB, TAPER TOWARD SIDEWALK CURB FACE AT BOTTOM OF RAMP (BOTH SIDES OF CROSSWALK)
SIDEWALK
BIKEWAY
TRENCH DRAIN
RAISED PEDESTRIAN CROSSWALK
FACE OF CURB
5'
1'
BUS BOARDING ISLAND
4" WHITE STRIPE AROUND INLET APRON LIP, ANGLED ON BIKEWAY APPROACH SIDE
DRAIN INLET
45°
FACE OF CURB
BIKEWAY

PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON
DESIGNED BY	DEP
DRAWN BY	DEP

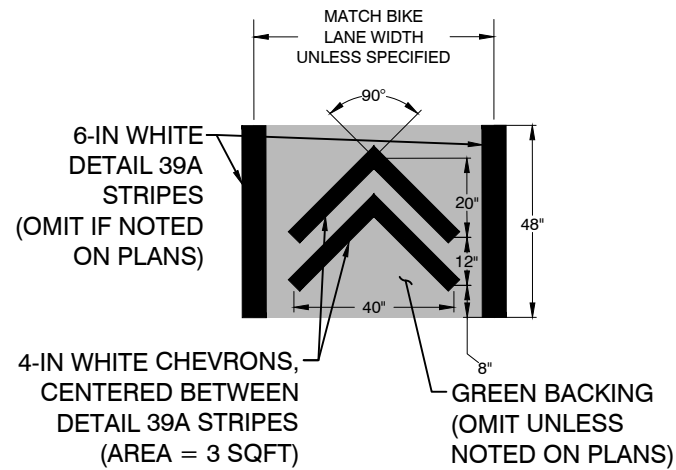
No.	DATE	BY	REFERENCE

SIGNAGE AND STRIPING DETAILS

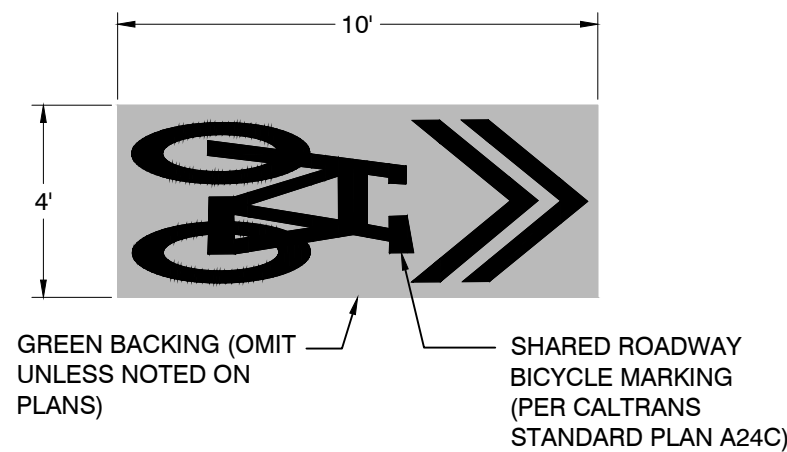
PROJECT NO. **1007299**
SCALE: NTS
DATE: 11/27/2024
SHEET NO. **78** OF **83**

DRAWING NAME: Z:\Bldg_Ped_Program\Projects\Bikeways-striping\LakeshoreAve-LakeMerritt\Bldg\Lakeshore, E 18th\ET\Embarcadero\StripingDesign\10_CAD\LakeshoreAve_StripingDetails.dwg
PLOT DATE: 12-01-24
PLOTTED BY: Penah

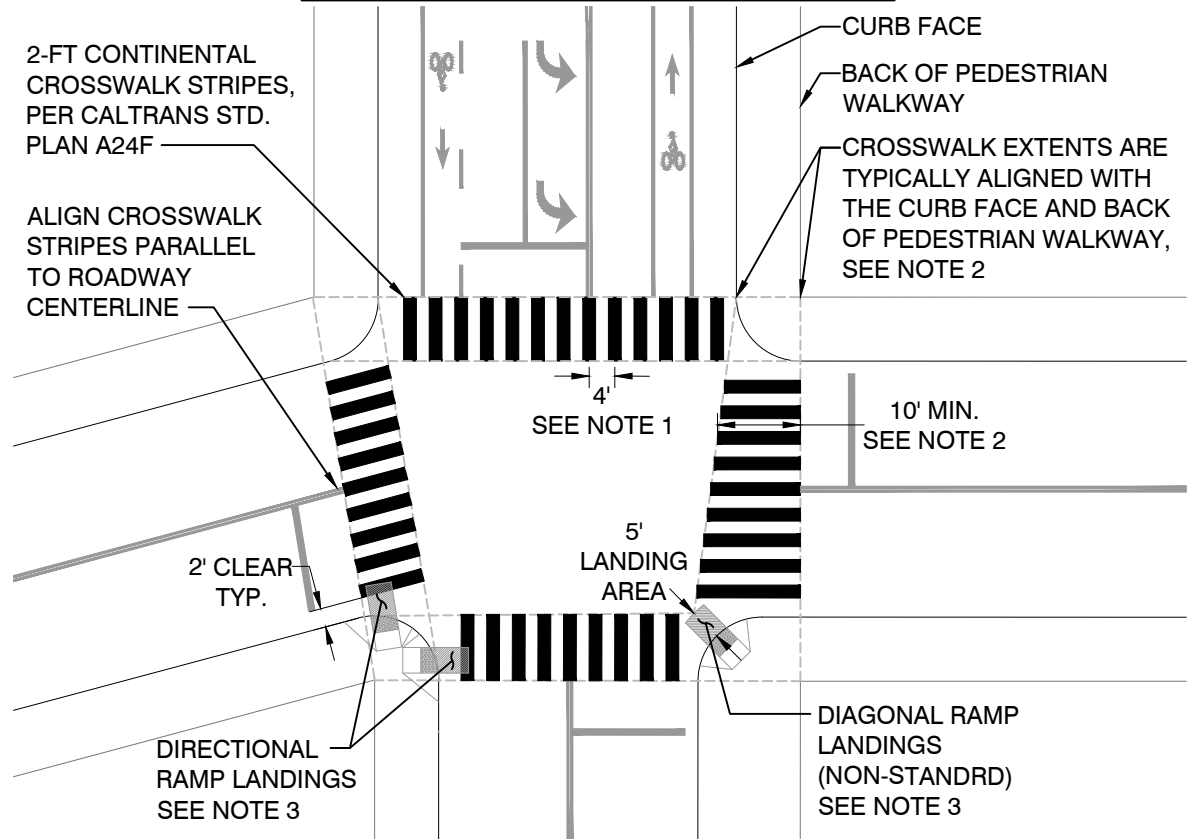
BIKE LANE INTERSECTION MARKING DETAILS



SHARROW SYMBOL DETAIL



CONTINENTAL CROSSWALK DETAIL

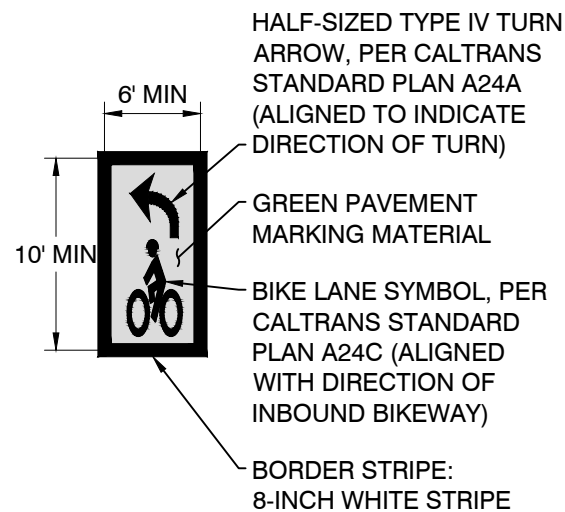


NOTES

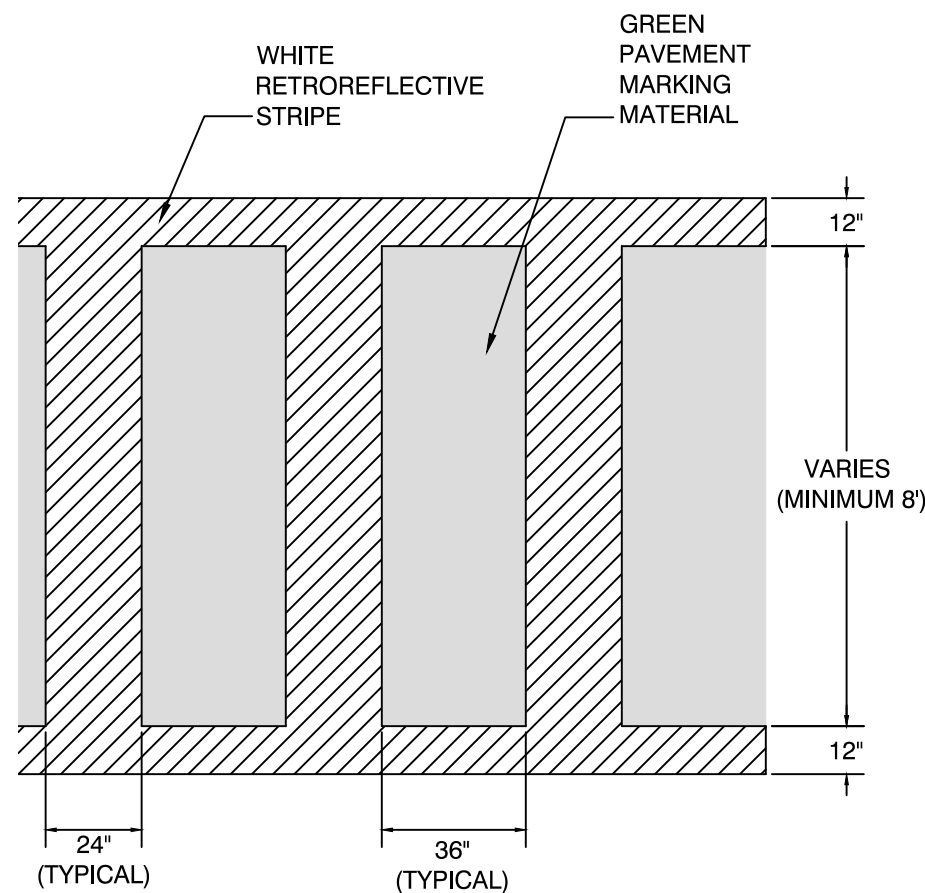
1. Continental crosswalk stripe spacing is 4 ft, on-center, unless otherwise specified. Align first crosswalk stripe with centerline of roadway and continue pattern toward edge of roadway, maintaining 2 ft clear from face of curb (if present).
2. Crosswalks should encompass the pedestrian walkways they connect. Unless otherwise specified, align the front of the crosswalk with the curb face at the corresponding curb returns. Align the back of the crosswalk with the back of the pedestrian walkway but no less than 10 ft back from the front of the crosswalk.
3. Crosswalks must encompass the curb ramp landing areas they connect. Directional ramps are the preferred standard, but where a single diagonal ramp serves both crosswalks at a corner, the front of the crosswalks may need to be shifted toward the intersection to encompass the entire 5' landing area at the bottom of the curb ramp.
4. See Detail RM-4A for supplemental crosswalk layout guidance.
5. At controlled approaches, install advanced limit lines with continental crosswalks, per Marking Detail RM-5.

PLAN PRODUCTION WARNING
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TWO-STAGE TURN BOX DETAIL



BIKE/PED PATH CROSSWALK DETAIL



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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON
DESIGNED BY	DEP
DRAWN BY	DEP

No.	DATE	BY	REFERENCE

SIGNAGE AND STRIPING DETAILS

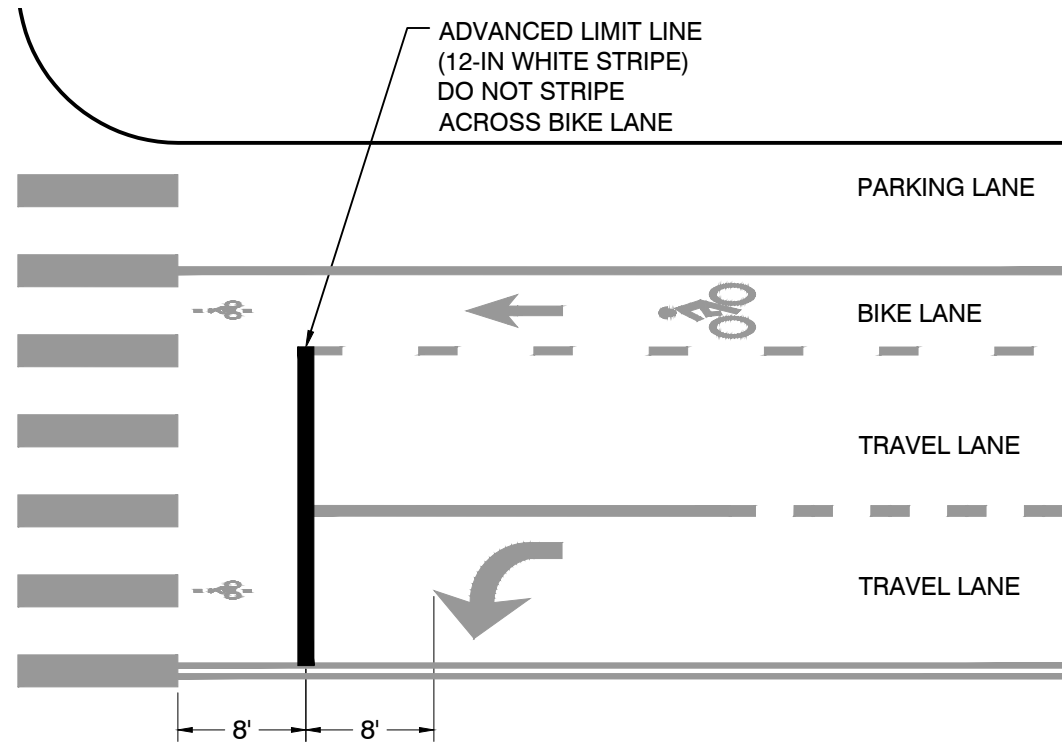
PROJECT NO.
1007299

SCALE: NTS
DATE: 11/27/2024

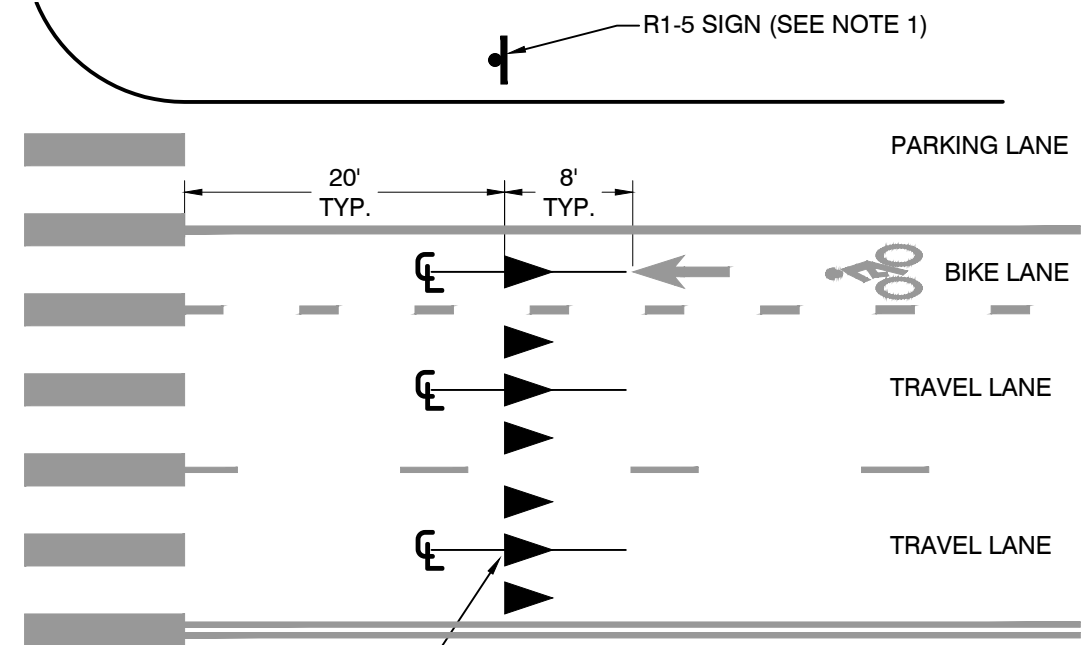
SHEET NO.
SSD-02
79 OF 83

DRAWING NAME: Z:\Bldg_Ped_Program\Projects\Bikeways-striping\LakeShoreAve-LakeMerrittBldg\Lakeshore, E 18th\ET\Embarcadero\5-Striping\Design\10_CAD\LakeshoreAve_StripingDetails.dwg
PLOT DATE: 12-01-24
PLOT BY: Pen@h

ADVANCED LIMIT LINE DETAIL



ADVANCED YIELD LINE DETAIL

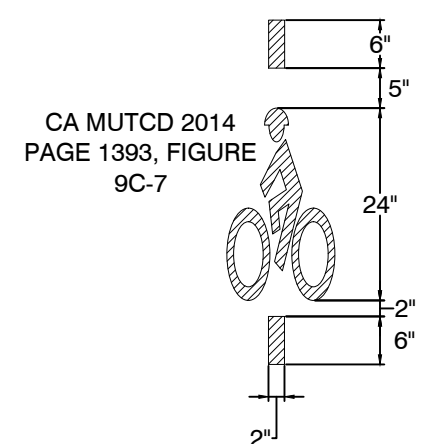


YIELD LINE (2' X 3' TRIANGLES)
PER CALTRANS STANDARD
PLANS A24E,
LAYOUT PATTERN AROUND
CENTERLINE OF EACH LANE

NOTES

1. INSTALL MUTCD R1-5 SIGN WITH ADVANCED YIELD LINE IF NOTED ON PLANS (AT UNCONTROLLED MULTILANE CROSSWALK APPROACHES)
2. ADVANCED YIELD LINES MAY ALSO BE INSTALLED (AS NOTED ON PLANS) AT UNCONTROLLED SINGLE LANE CROSSWALK APPROACHES.

BIKE DETECTOR SYMBOL DETAIL



INSTALL BIKE DETECTOR MARKING 1 FOOT BACK FROM CROSSWALK AND CENTERED IN LANE, OR AS NOTED

PLAN PRODUCTION WARNING
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LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BLVD

DRAFT NOT FOR CONSTRUCTION

CHECKED BY	JASON PATTON	No.	DATE	BY	REFERENCE
DESIGNED BY	DEP				
DRAWN BY	DEP				

SIGNAGE AND STRIPING DETAILS

PROJECT NO. 1007299	
SCALE: NTS	SHEET NO. SSD-03 80 OF 83
DATE: 11/27/2024	

DRAWING NAME: Z:\Bldg_Progam\Projects\Bikeways-striping\LakeShoreAve-LakeMerrillBldg\Lakeshore, E 18th\ET\Embarcadero\5-Striping\Design\10_CAD\LakeshoreAve_StripingDetails.dwg
PLOT DATE: 12-01-24
PLOTTED BY: Pen@du

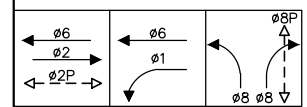
GENERAL NOTES

- NOT ALL EXISTING EQUIPMENT, CONDUITS, AND PULL BOXES ARE SHOWN ON PLANS. PLANS ONLY SHOW TRAFFIC SIGNAL EQUIPMENT WHEN IMPACTED. EXISTING SIGNAL EQUIPMENT, CONDUITS, AND CONDUCTORS TO REMAIN, UNLESS OTHERWISE NOTED.
- EXISTING SIGNAL PHASING AND SIGNAL CABLE CONDUCTOR PHASE ASSIGNMENTS DEVELOPED USING CITY PROVIDED AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY EXISTING WIRING PRIOR TO CONSTRUCTION.
- PROPOSED PULL BOXES SHALL BE CALTRANS NO. 5 UNLESS OTHERWISE NOTED ON PLANS.
- CENTER OF PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 3'-6" FROM SIDEWALK GRADE (TO CENTER OF BUTTON). MAXIMUM HORIZONTAL REACH FROM EDGE OF NEAREST SIDEWALK TO PUSH BUTTON SHALL BE 10". INSTALL APS ON EXTENSION BRACKET AS REQUIRED TO MEET 10" REACH REQUIREMENT.

CONSTRUCTION NOTES:

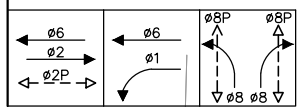
- REMOVE EXISTING #2 PPB PEDESTRIAN PUSH BUTTON.
- REPLACE EXISTING WITH NO. 6 PULL BOX.
- REMOVE EXISTING #8 PPB.
- REPROGRAM VIDEO DETECTION ZONES FOR NEW BIKE AND VEHICLE LANE CONFIGURATION.
- INSTALL R9-5 SIGN ON POLE.

STEADY DEMAND SEQUENCE



EXISTING PHASE DIAGRAM

STEADY DEMAND SEQUENCE



PROPOSED PHASE DIAGRAM

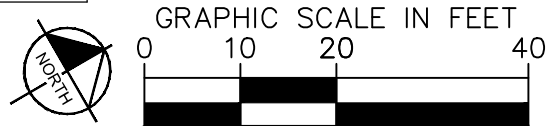
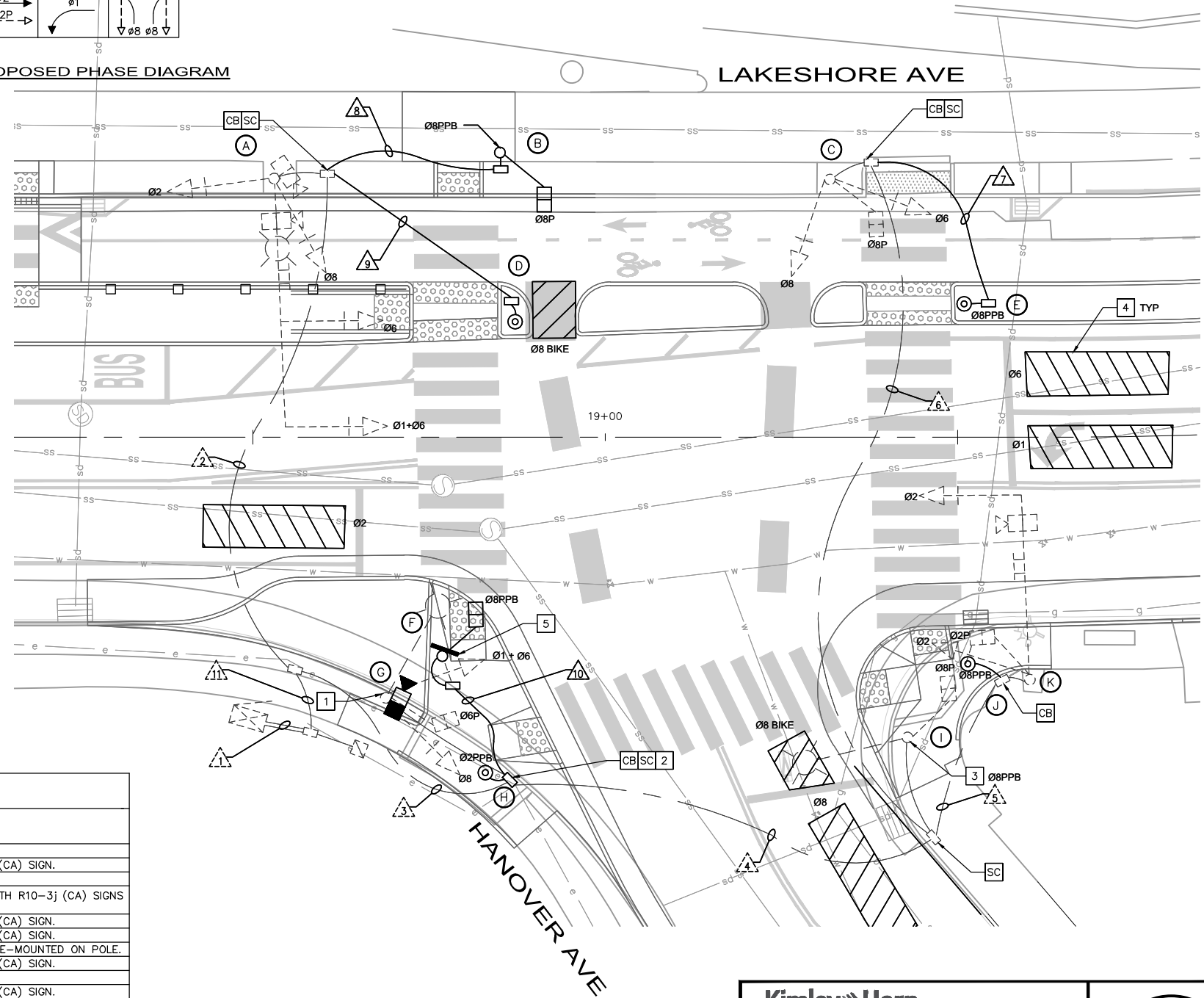
AWG	CONDUCTOR DESIGNATION	CONDUCTOR SCHEDULE										
		NUMBER OF CONDUCTORS										
		RUN NUMBER										
		1	2	3	4	5	6	7	8	9	10	11
SIGNAL CABLE 12C/14TS	CABLE 'A'	1	1	1	1	1	1	1	(1)	1	(1)	1
	CABLE 'B'	1	1	1	1	1	1	1				1
	CABLE 'C'	1	1	1	1	1	1	1				1
	TOTAL SIGNAL CABLE	3	2	3	3	1	2		(1)		(1)	3
PPB	3C/#14 - Ø2P	2		2	1							2
	3C/#14 - Ø8P	(1)	(1)	1	1	1	1	(1)	(1)	(1)	(1)	(1)
	TOTAL PPB CABLE	4	(1)	3	2	1	1	(1)	(1)	(1)	(1)	4
VIDEO DETECTION	Ø1 & 6	1	1									1
	Ø8 (BIKE)	(1)	(1)	1	1	1						1
	TOTAL CABLES	3	2	1	1	1						3
NO. 8	240V LIGHTING	2	2	2								2
	GROUND	1	1	1	1	1	1	(1)	(1)	(1)	(1)	1
	TOTAL NO. 8	3	3	3	3	1	1	(1)	(1)	(1)	(1)	3
NO. 10	IISNS(120V)	2	2	2	2							2
	TOTAL NO. 10	2	2	2	2							2
NO. 6	FEEDER TO CONTROLLER (120V)	3										3
	TOTAL NO. 6	3										3
PERCENT FILL (%)		10%	17%	25%	23%	9%	12%	5%	8%	5%	3%	14%
CONDUIT SIZE		2-3"	3"	3"	3"	3"	3"	(2")	(3")	(2")	(3")	3"

() - DENOTES NEW

POLE AND EQUIPMENT SCHEDULE							
LOCATION	TYPE	STANDARD LUMINAIRE	MAST ARM	LED LUM WATTAGE	PED SIGNAL MOUNTING	APS ARROW	SPECIAL REQUIREMENTS
Ae	EX.	EX.	EX.	EX.	-	-	-
B	1-B (7')	-	-	-	TP-1-T	↕	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
Ce	EX.	-	-	-	-	↕	-
D	TYPE 2 (4'6")	-	-	-	-	↕	INSTALL DOUBLE-SIDED TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNALS (APS) WITH R10-3j (CA) SIGNS FOR USE BY CYCLISTS AND PEDESTRIANS
E	TYPE 2 (4'6")	-	-	-	-	↕	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
F	1-B (7')	-	-	-	TP-1-T	↕	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
Ge	EX.	EX.	EX.	EX.	-	-	REMOVE EXISTING APS FROM POLE G. INSTALL A VIDEO DETECTION CAMERA SIDE-MOUNTED ON POLE.
H	TYPE 2 (4'6")	-	-	-	-	↕	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
Ie	EX.	-	-	-	-	↕	REMOVE EXISTING Ø8 APS FROM POLE I. Ø2 APS TO REMAIN.
J	TYPE 2 (4'6")	-	-	-	-	↕	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
Ke	EX.	-	-	-	-	-	-

E - DENOTES EXISTING

100% SUBMITTAL
NOT FOR BID OR
CONSTRUCTION



PLAN PRODUCTION WARNING
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Kimley Horn
1300 Clay Street, Suite 900 Tel. No. (510)625-0712 © 2024
Oakland, California 94612 Fax No. (916)608-0885

CHECKED BY RYAN DOLE, P.E.
DESIGNED BY TESSA KEMPER
DRAWN BY PRIYA PALLIVATHUCAL



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DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

ELECTRICAL PLANS

PROJECT NO. **1007299**

SCALE: AS SHOWN SHEET NO. E-01
DATE: 12/11/2024 81 OF 83

DRAWING NAME: K:\OAK_BDW\100708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\E-XX.dwg
PLOT DATE: 12/12/24
PLOT BY: Priya Pallivathucal

GENERAL NOTES

1. NOT ALL EXISTING EQUIPMENT, CONDUITS, AND PULL BOXES ARE SHOWN ON PLANS. PLANS ONLY SHOW TRAFFIC SIGNAL EQUIPMENT WHEN IMPACTED. EXISTING SIGNAL EQUIPMENT, CONDUITS, AND CONDUCTORS TO REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING SIGNAL PHASING AND SIGNAL CABLE CONDUCTOR PHASE ASSIGNMENTS DEVELOPED USING CITY PROVIDED AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY EXISTING WIRING PRIOR TO CONSTRUCTION.
3. PROPOSED PULL BOXES SHALL BE CALTRANS NO. 5 UNLESS OTHERWISE NOTED ON PLANS.
4. CENTER OF PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 3'-6" FROM SIDEWALK GRADE (TO CENTER OF BUTTON). MAXIMUM HORIZONTAL REACH FROM EDGE OF NEAREST SIDEWALK TO PUSH BUTTON SHALL BE 10". INSTALL APS ON EXTENSION BRACKET AS REQUIRED TO MEET 10" REACH REQUIREMENT.

CONSTRUCTION NOTES:

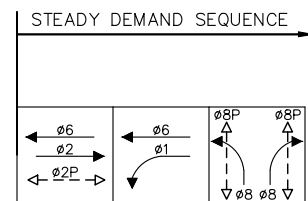
- 4 REPROGRAM VIDEO DETECTION ZONES FOR NEW BIKE AND VEHICLE LANE CONFIGURATION.
- 6 INSTALL APS ON NEW EXTENSION BRACKET SO BUTTON IS LESS THAN 10" FROM EDGE OF CURB RAMP.

AWG	CONDUCTOR SCHEDULE						
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS					
		RUN NUMBER					
		1	2	3	4	5	6
SIGNAL CABLE 12C/14TS	CABLE 'A'	1	1	1	1		
	CABLE 'B'	1	1	1	1		
	CABLE 'C'	1	1	1	1		
	TOTAL SIGNAL CABLE	3	1	2	1		
PPB	2C/#14 W/ GROUND - Ø8P	1	1	1	1	(1)	(1)
	TOTAL 2C/#14 CABLE	1	1	1	1	(1)	(1)
AUDIBLE PED. SIGNAL	3C/#14 W/ GROUND - AUDIBLE PED. SIGNAL	1	1	1	1		
	TOTAL 3C/#14 CABLE	1	1	1	1		
VIDEO DETECTION NO. 8	Ø1 & 6	1					
	Ø2	1	1	1	1		
	Ø8	1					
	TOTAL CABLES	3		1	1		
	240V LIGHTING	2	2	2	2		
	GROUND	1	1	1	1	(1)	(1)
	TOTAL NO. 8	3	3	3	3	(1)	(1)
	PERCENT FILL (%)	12%	9%	16%	16%	5%	5%
	CONDUIT SIZE	2-3"	3"	3"	3"	(2")	(2")

() - DENOTES NEW

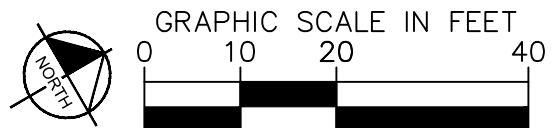
LOCATION	STANDARD			WATTAGE	APS ARROW	SPECIAL REQUIREMENTS
	TYPE	LUMINAIRE	MAST ARM			
A _e	EX.	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
B _e	EX.	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
C	TYPE 2 (4'6")	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
D	TYPE 2 (4'6")	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
E _e	EX.	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.
F _e	EX.	EX.	EX.	EX.	←	INSTALL NEW TOUCHLESS ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITH R10-3j (CA) SIGN.

E - DENOTES EXISTING

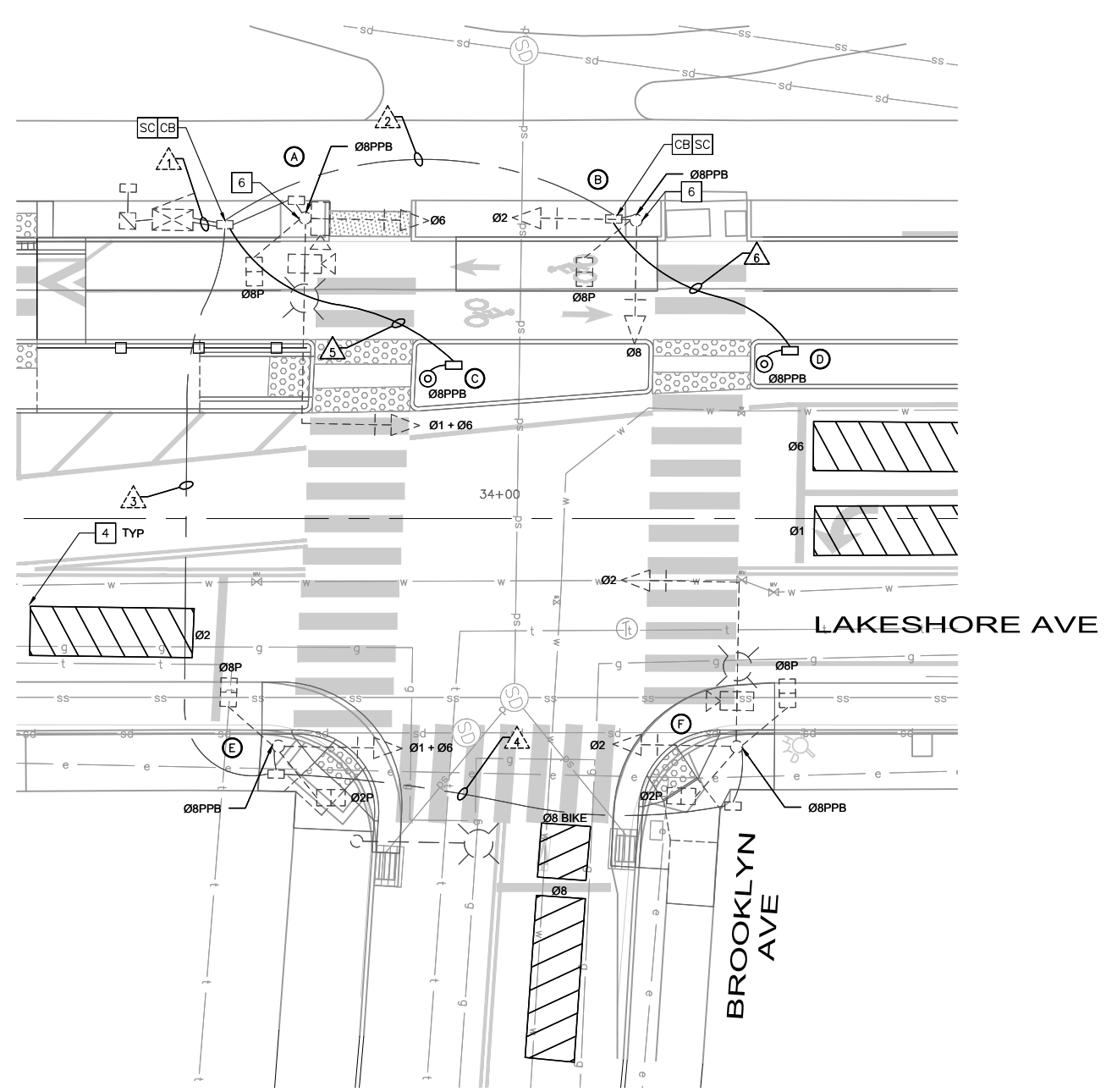


EXISTING PHASE DIAGRAM (TO REMAIN)

100% SUBMITTAL
NOT FOR BID OR
CONSTRUCTION



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.



Kimley-Horn
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Oakland, California 94612 Fax No. (916)608-0885

CHECKED BY RYAN DOLE, P.E.
DESIGNED BY TESSA KEMPER
DRAWN BY PRIYA PALLIVATHUCAL



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DEPARTMENT OF TRANSPORTATION
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**LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT
FROM E 18TH STREET TO MACARTHUR BOULEVARD**

No.	DATE	BY	REFERENCE

ELECTRICAL PLANS

PROJECT NO.
1007299

SCALE:
AS SHOWN

SHEET NO.
E-02
82 OF 83

DATE: 12/11/2024

DRAWING NAME: K:\OAK_RDW\100708204 - Lakeshore Ave Cycle Trac\04_CADD\Plan_Sheets\E-XX.dwg
PLOT DATE: 12/12/24
PLOT BY: Priya Pallivathucal

GENERAL NOTES

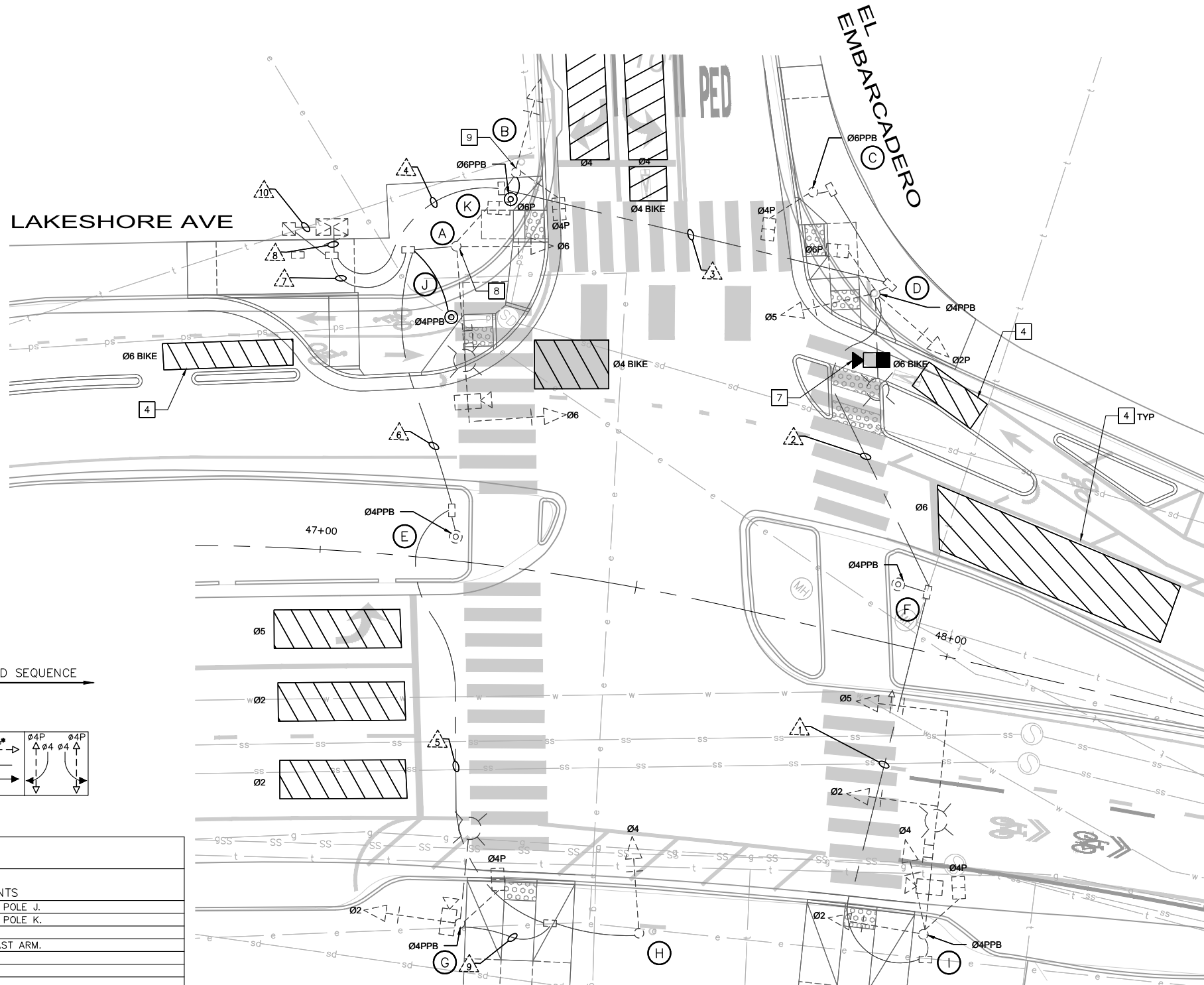
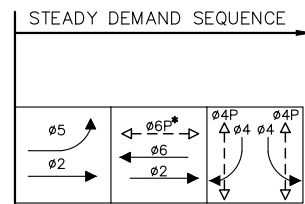
1. NOT ALL EXISTING EQUIPMENT, CONDUITS, AND PULL BOXES ARE SHOWN ON PLANS. PLANS ONLY SHOW TRAFFIC SIGNAL EQUIPMENT WHEN IMPACTED. EXISTING SIGNAL EQUIPMENT, CONDUITS, AND CONDUCTORS TO REMAIN, UNLESS OTHERWISE NOTED.
2. EXISTING SIGNAL PHASING AND SIGNAL CABLE CONDUCTOR PHASE ASSIGNMENTS DEVELOPED USING CITY PROVIDED AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY EXISTING WIRING PRIOR TO CONSTRUCTION.
3. PROPOSED PULL BOXES SHALL BE CALTRANS NO. 5 UNLESS OTHERWISE NOTED ON PLANS.
4. CENTER OF PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 3'-6" FROM SIDEWALK GRADE (TO CENTER OF BUTTON). MAXIMUM HORIZONTAL REACH FROM EDGE OF NEAREST SIDEWALK TO PUSH BUTTON SHALL BE 10". INSTALL APS ON EXTENSION BRACKET AS REQUIRED TO MEET 10" REACH REQUIREMENT.

CONSTRUCTION NOTES:

- 4 REPROGRAM VIDEO DETECTION ZONES FOR NEW BIKE AND VEHICLE LANE CONFIGURATION.
- 7 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON EXISTING LUMINAIRE MAST ARM.
- 8 REMOVE AND RELOCATE EXISTING APS ONTO POLE J.
- 9 REMOVE AND RELOCATE EXISTING APS ONTO POLE K.

AWG	CONDUCTOR DESIGNATION	CONDUCTOR SCHEDULE										
		NUMBER OF CONDUCTORS										
		RUN NUMBER										
		1	2	3	4	5	6	7	8	9	10	
SIGNAL CABLE 12C/14TS	CABLE 'A'	1	1	1	1				1			
	CABLE 'B'			1	1				1			
	CABLE 'C'					1	1	1	1	1	1	
	CABLE 'D'								1	1		
	TOTAL SIGNAL CABLE	1	1	2	3	1	1	2	4	1		
PPB	3C/#14 - Ø6P	1	1	1	1	1	1	1	2	1		
	3C/#14 - Ø4P	1	1	2	2	1	1	1	3	1		
	TOTAL PPB CABLE	1	1	1	1	1	1	1	1	1		
VIDEO DETECTION	Ø2	1	1	1	1				1			
	Ø4					1	1	1	1			
	Ø6 & Ø1	1	1	1	1				1			
	Ø6 BIKE			(1)	(1)				1	3		
	TOTAL CABLES	2	2	3	3	2	2	2	6			
NO. 8	240V LIGHTING	2	2	2	2				2			
	GROUND	1	1	1	1	1	1	1	1	1	1	
	TOTAL NO. 8	3	3	3	3	1	1	3	1	3	1	
NO. 10	IISNS(120V)	2	2	2	2				2	2		
	TOTAL NO. 10	2	2	2	2				2	2		
NO. 6	FEEDER TO CONTROLLER (120V)										2	
	TOTAL NO. 6										2	
PERCENT FILL (%)		11%	11%	19%	18%	8%	9%	14%	12%	2%	1%	
CONDUIT SIZE		3"	3"	3"	3"	3"	3"	3"	2-3"	3"	3"	

() - DENOTES NEW

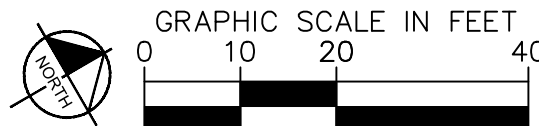


POLE AND EQUIPMENT SCHEDULE					
LOCATION	TYPE	STANDARD		APS	SPECIAL REQUIREMENTS
		LUMINAIRE MAST ARM	LED LUMINAIRE WATTAGE		
A _e	EX.	EX.	EX.	-	REMOVE EX. APS FROM EX. POLE AND RELOCATE TO POLE J.
B _e	EX.	-	-	-	REMOVE EX. APS FROM EX. POLE AND RELOCATE TO POLE K.
C _e	EX.	-	-	←	-
D _e	EX.	EX.	EX.	→	INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM.
E _e	EX.	-	-	→	-
F _e	EX.	-	-	→	-
G _e	EX.	EX.	EX.	→	-
H _e	EX.	-	-	→	-
I _e	EX.	EX.	EX.	→	-
J	TYPE 2 (4'6")	-	-	→	INSTALL RELOCATED EXISTING APS FROM POLE A.
K	TYPE 2 (4'6")	-	-	→	INSTALL RELOCATED EXISTING APS FROM POLE B.

E - DENOTES EXISTING

100% SUBMITTAL NOT FOR BID OR CONSTRUCTION

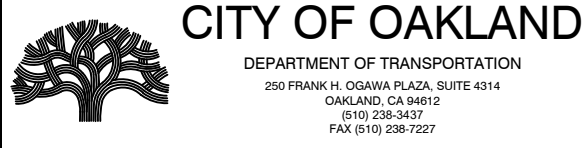
EXISTING PHASE DIAGRAM (TO REMAIN)
*Ø6 BIKE SHALL ACTIVATE Ø6



PLAN PRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI B (11" X 17") SHEETS. REFER TO GRAPHIC SCALE FOR SHEETS OF DIFFERENT SIZES.

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CHECKED BY RYAN DOLE, P.E.
DESIGNED BY TESSA KEMPER
DRAWN BY PRIYA PALLIVATHUCAL



LAKESHORE AVENUE SEPARATED BIKE LANES PROJECT FROM E 18TH STREET TO MACARTHUR BOULEVARD

No.	DATE	BY	REFERENCE

ELECTRICAL PLANS

PROJECT NO. 1007299

SCALE: AS SHOWN SHEET NO. E-03

DATE: 12/11/2024 83 OF 83

DRAWING NAME: K:\OAK_RDW\100709299 - Lakeshore Ave Cycle Track\04_CADD\Plan_Sheets\E-XX.dwg
PLOT DATE: 12/12/24
PLOT BY: Priya Pallivathucal