

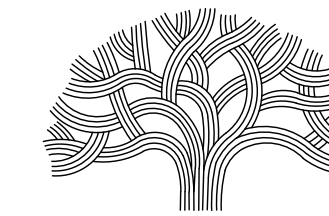


Know what's below.  
Call before you dig.

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

# PLANS FOR THE CONSTRUCTION OF LAKESIDE FAMILY STREETS

FUNDED BY  
ONE BAY AREA GRANT (OBAG)  
AND CITY OF OAKLAND MEASURE KK AND MEASURE U  
FEDERAL PROJECT NO.: STPCML 5012(155)  
CITY PROJECT NO.: 1004836



CITY OF OAKLAND

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

GREAT STREETS DELIVERY (DOT)

PRINCIPAL CIVIL ENGINEER

SAFE STREETS (DOT)

DIVISION MANAGER

ADA PROGRAM (DOT)

PROGRAM MANAGER

PROJECT DELIVERY DIVISION (OPW)

DIVISION MANAGER

BUREAU OF MAINTENANCE AND INTERNAL SERVICES (OPW)

ASSISTANT DIRECTOR

BUREAU OF ENVIRONMENT (OPW)

ASSISTANT DIRECTOR

SI LAU, COMPLETE STREETS DESIGN



SUPERVISING CIVIL ENGINEER

CHECKED BY SL/SK

DESIGNED BY SK/DA/JW

DRAWN BY DA/JW

No.	BY	DATE	REFERENCE

PROJECT NO.  
**1004836**

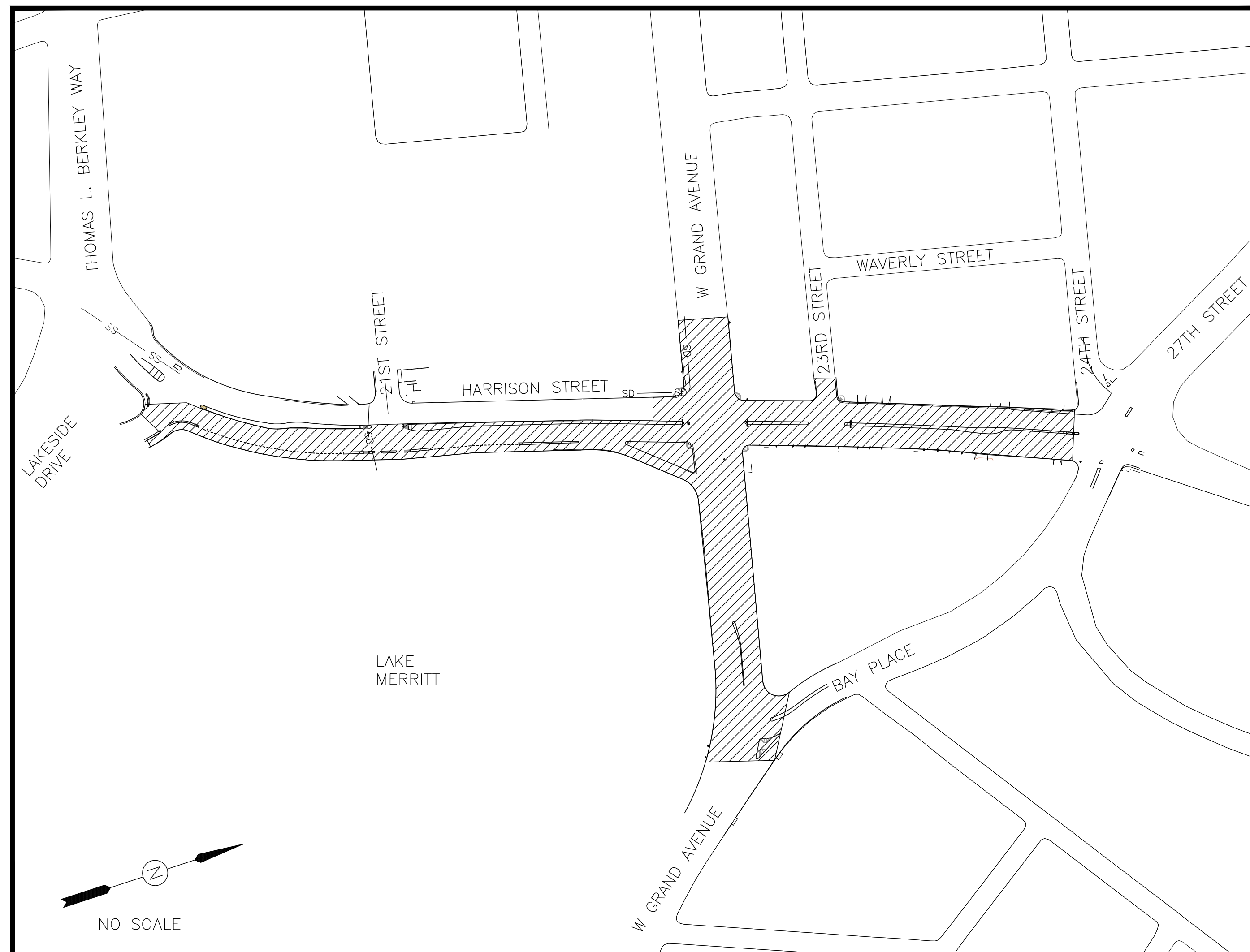
SCALE: NTS SHEET NO. G-1.0  
DATE: OCT 24, 2023 1 OF 58

## INDEX OF SHEETS

NO.	SHEET NO.	SHEET TITLE
1	G-1.0	TITLE SHEET
2	G-1.1	KEY MAP
3	G-1.2	ALIGNMENT DATA
4	G-1.3	NOTES, SYMBOLS, AND ABBREVIATIONS
5	G-2.0	EXISTING CONDITIONS - COVER SHEET
6	G-2.1	EXISTING CONDITIONS
7	G-2.2	EXISTING CONDITIONS
8	G-2.3	EXISTING CONDITIONS
9	G-2.4	EXISTING CONDITIONS
10	G-2.5	EXISTING CONDITIONS
11	G-2.6	EXISTING CONDITIONS
12	G-3.1	TYPICAL CROSS SECTIONS
13	G-3.2	TYPICAL CROSS SECTIONS
14	D-1.1	DEMOLITION PLAN
15	D-1.2	DEMOLITION PLAN
16	D-1.3	DEMOLITION PLAN
17	D-1.4	DEMOLITION PLAN
18	D-1.5	DEMOLITION PLAN
19	D-1.6	DEMOLITION PLAN
20	U-1.1	UTILITY PLAN
21	U-1.2	UTILITY PLAN
22	C-1.1	LAYOUT PLAN
23	C-1.2	LAYOUT PLAN
24	C-1.3	LAYOUT PLAN
25	C-1.4	LAYOUT PLAN
26	C-2.1	GRADING PLAN
27	C-2.2	GRADING PLAN
28	C-2.3	GRADING PLAN
29	C-2.4	GRADING PLAN
30	C-2.5	GRADING PLAN
31	C-2.6	GRADING PLAN
32	C-2.7	GRADING PLAN
33	C-2.8	GRADING PLAN
34	C-2.9	GRADING PLAN
35	C-3.1	BUS BOARDING ISLAND DETAIL
36	C-3.2	BUS BOARDING ISLAND DETAIL
37	C-4.1	CURB RAMP DETAILS
38	C-4.2	CURB RAMP DETAILS
39	C-4.3	CURB RAMP DETAILS
40	C-4.4	CURB RAMP DETAILS
41	C-5.1	CIVIL DETAILS
42	C-5.2	CIVIL DETAILS
43	C-5.3	CIVIL DETAILS
44	C-6.1	POLLUTION PREVENTION PLAN
45	T-1.1	SIGNING AND STRIPING PLAN
46	T-1.2	SIGNING AND STRIPING PLAN
47	T-1.3	SIGNING AND STRIPING PLAN
48	T-1.4	SIGNING AND STRIPING PLAN
49	T-1.5	SIGNING AND STRIPING PLAN
50	T-1.6	SIGNING AND STRIPING PLAN
51	T-2.1	SIGNING AND STRIPING DETAILS
52	E-1.0	ELECTRICAL NOTES AND LEGEND
53	E-1.1	ELECTRICAL PLAN (HARRISON ST/LAKESIDE DR)
54	E-1.2	ELECTRICAL PLAN (HARRISON ST/21ST ST)
55	E-1.3	ELECTRICAL PLAN (HARRISON ST/W GRAND AVE)
56	E-1.4	ELECTRICAL PLAN (HARRISON ST/W GRAND AVE)
57	E-1.5	ELECTRICAL PLAN (HARRISON ST/23RD ST)
58	E-1.6	ELECTRICAL PLAN (W GRAND/BAY PLACE)

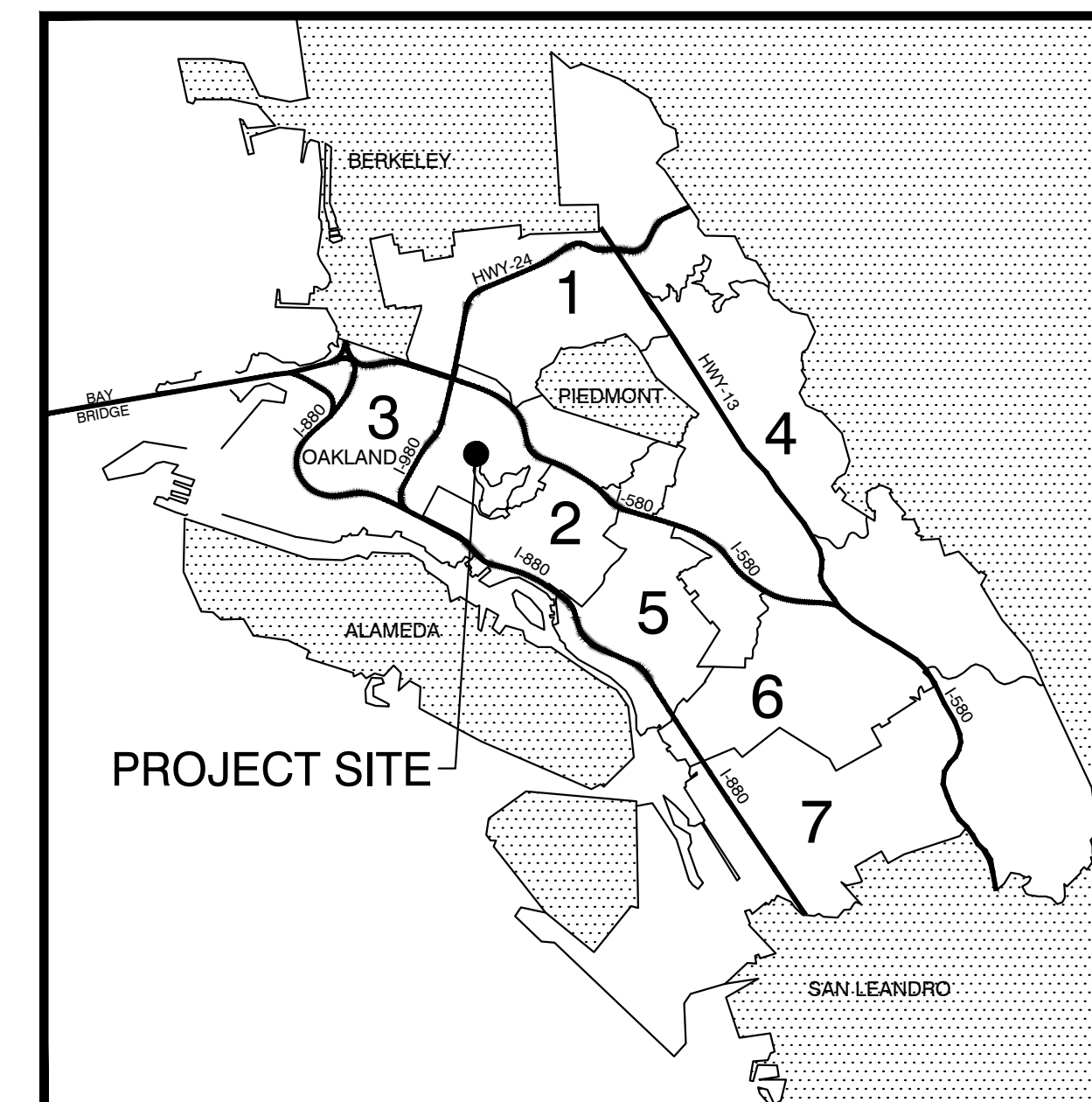
## LOCATION MAPS

NOT TO SCALE



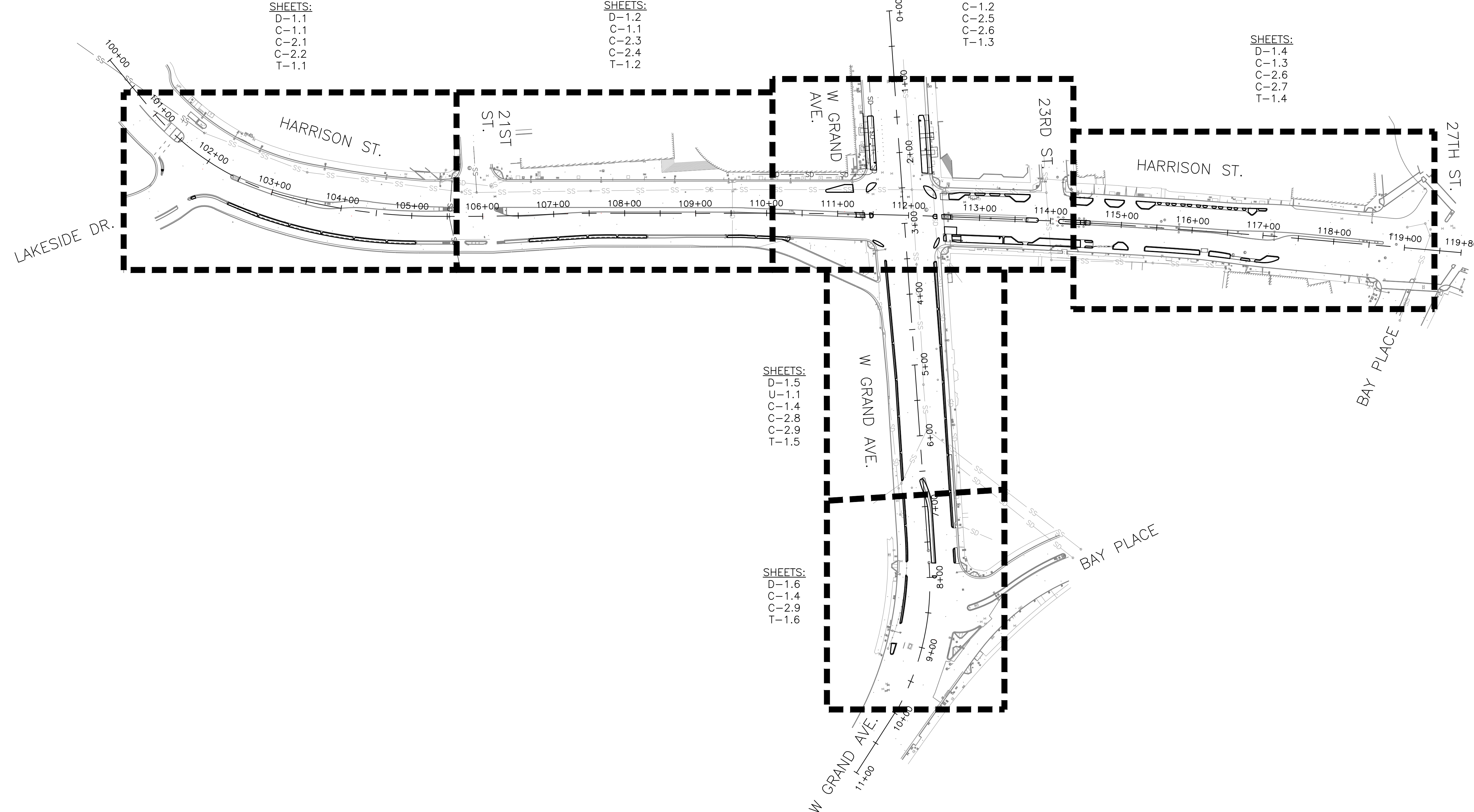
PROJECT LIMIT

## CITY OF OAKLAND COUNCIL DISTRICT MAP



MEGAN WIER  
OAKLAND DEPARTMENT OF TRANSPORTATION  
ASSISTANT DIRECTOR

DRAWING NAME: \\lakeland\cadd\Great Streets Delivery\PROJECTS\CSDT\_ ACTIVE\1004836 - Lakeside Family Streets (E)12 DESIGN\0 CAD\2\_Sheets\G-1.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wmg93



SHEETS:  
 D-1.1  
 C-1.1  
 C-2.1  
 C-2.2  
 T-1.1

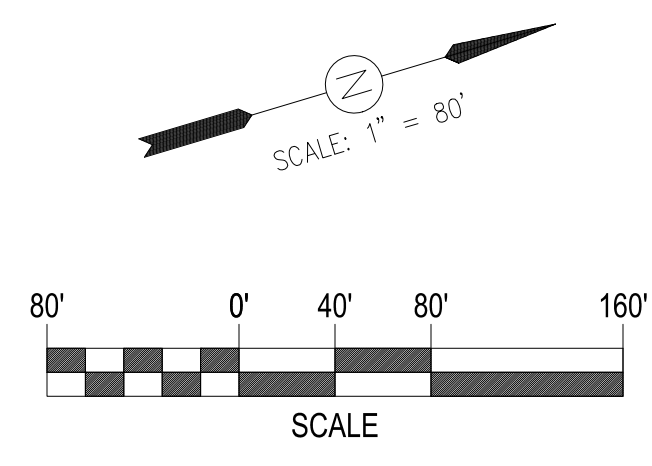
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SHEETS:  
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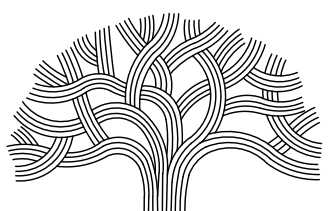
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 C-1.4  
 C-2.8  
 C-2.9  
 T-1.5

SHEETS:  
 D-1.6  
 C-1.4  
 C-2.9  
 T-1.6



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	SI LAU
RCE NO.	C57399
CHECKED BY	SL/SK
DESIGNED BY	SK/DA
DRAWN BY	DA

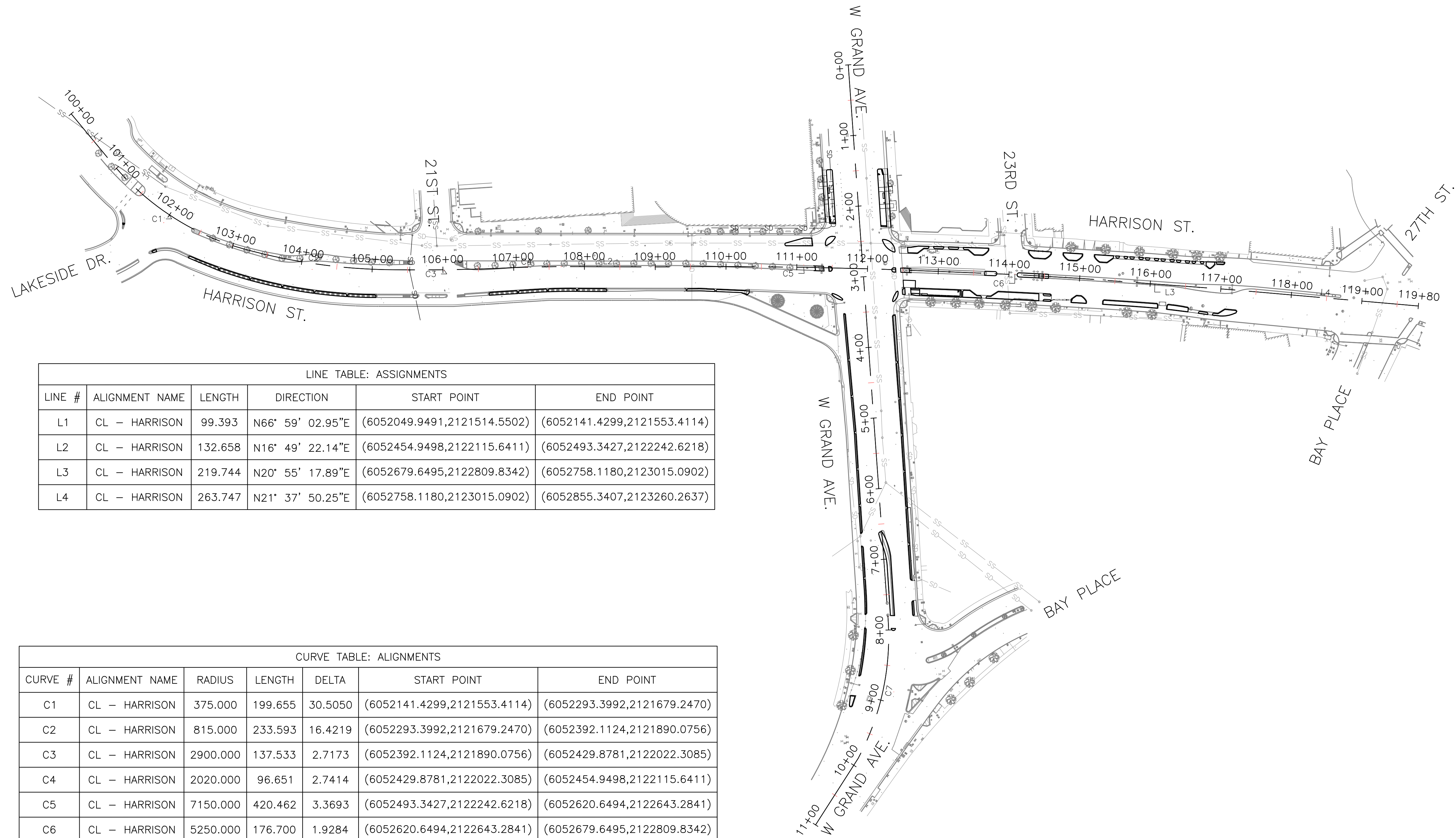
NO.	DATE	BY	REFERENCE

CONSTRUCTION PLANS:  
 KEY MAP

PROJECT NO.	
<b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>G-1.1</b>
DATE: 10/25/2023	<b>2</b> OF <b>58</b>

DRAWING NAME: \\lakeland\cadd\Great Streets Delivery\PROJECTS\CSD1 - ACTIVE\1004836 - Lakeside Family Streets (S)2 DESIGN\0\_CADD\_Sheets\G-1.dwg  
 PLOT DATE: 11-09-23  
 PLOTTED BY: wang93



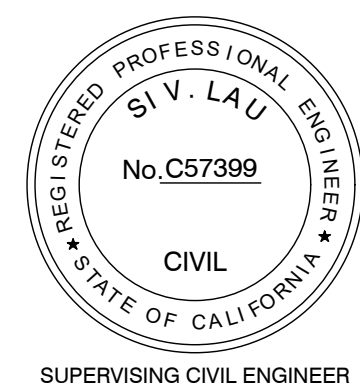
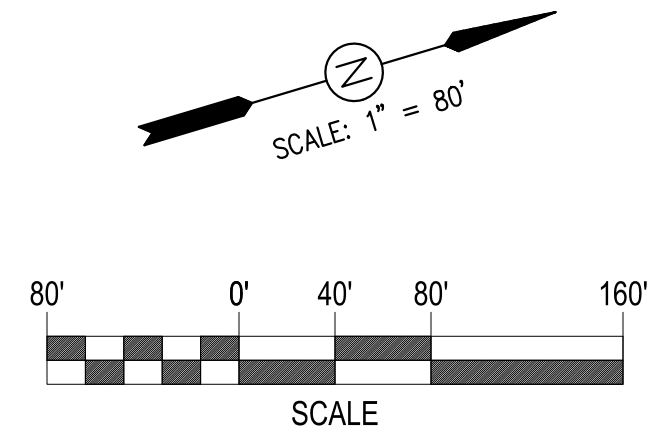


LINE TABLE: ASSIGNMENTS

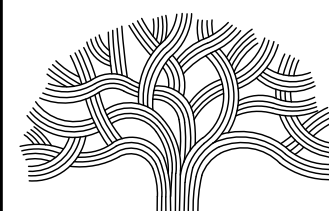
LINE #	ALIGNMENT NAME	LENGTH	DIRECTION	START POINT	END POINT
L1	CL - HARRISON	99.393	N66° 59' 02.95"E	(6052049.9491,2121514.5502)	(6052141.4299,2121553.4114)
L2	CL - HARRISON	132.658	N16° 49' 22.14"E	(6052454.9498,2122115.6411)	(6052493.3427,2122242.6218)
L3	CL - HARRISON	219.744	N20° 55' 17.89"E	(6052679.6495,2122809.8342)	(6052758.1180,2123015.0902)
L4	CL - HARRISON	263.747	N21° 37' 50.25"E	(6052758.1180,2123015.0902)	(6052855.3407,2123260.2637)

CURVE TABLE: ALIGNMENTS

CURVE #	ALIGNMENT NAME	RADIUS	LENGTH	DELTA	START POINT	END POINT
C1	CL - HARRISON	375.000	199.655	30.5050	(6052141.4299,2121553.4114)	(6052293.3992,2121679.2470)
C2	CL - HARRISON	815.000	233.593	16.4219	(6052293.3992,2121679.2470)	(6052392.1124,2121890.0756)
C3	CL - HARRISON	2900.000	137.533	2.7173	(6052392.1124,2121890.0756)	(6052429.8781,2122022.3085)
C4	CL - HARRISON	2020.000	96.651	2.7414	(6052429.8781,2122022.3085)	(6052454.9498,2122115.6411)
C5	CL - HARRISON	7150.000	420.462	3.3693	(6052493.3427,2122242.6218)	(6052620.6494,2122643.2841)
C6	CL - HARRISON	5250.000	176.700	1.9284	(6052620.6494,2122643.2841)	(6052679.6495,2122809.8342)
C7	CL - GRAND	363.549	206.948	32.6153	(6053061.0284,2122416.5574)	(6053240.4140,2122319.0668)



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

ALIGNMENT DATA

PROJECT NO.

1004836

SCALE:  
AS SHOWN  
DATE:  
10/25/2023

SHEET NO.  
G-1.2  
3 OF 58

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CDT1.ACTIVE/1004836 - Lakeside Family Streets (S)12.DESIGN/0 CAD/2 SHEET/G-1.2.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93

**NOTES:**

- 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) 2022 STANDARD SPECIFICATIONS AND 2022 STANDARD AND REVISED STANDARD PLANS, THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE PROJECT SPECIAL PROVISIONS.
- IN ACCORDANCE WITH SPECIFICATIONS SECTION 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 AND/OR REMOVED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED IN-KIND BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 AND CALTRANS ELECTRICAL AT (510) 622-5741 AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION AND REQUEST DELINEATION OF UNDERGROUND UTILITIES IN THE AREA TO BE EXCAVATED. NOTE THAT MARKINGS ARE ONLY VALID FOR FOURTEEN (28) DAYS. IF THE MOST RECENT REQUEST HAS ELAPSED THE 14-DAY PERIOD, THE CONTRACTOR SHALL REQUEST USA TO RENEW MARKINGS.
- 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.
- THE CONTRACTOR SHALL NOT ALLOW DEBRIS AND SILT GENERATED BY CONSTRUCTION ACTIVITIES TO FLOW INTO THE PUBLIC STORM DRAIN SYSTEM NOR TO BE DEPOSITED IN THE PUBLIC RIGHT OF WAY, AS SPECIFIED IN SECTION 7-8.6 OF THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SUCH SILT MATERIAL FROM THE JOB SITE. FULL COMPENSATION TO FULFILL THIS WORK SHALL BE INCLUDED IN THE PRICE FOR THE VARIOUS ITEMS OF WORK, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
- UNLESS APPROVED BY THE CITY, NO MATERIAL OR EQUIPMENT MAY BE STORED IN THE PUBLIC RIGHT OF WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK TO BE PERFORMED BY THEIR SUBCONTRACTORS, INCLUDING TRAFFIC CONTROL WORK, CONCRETE CONSTRUCTION, AND OTHERS.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUBMIT A WRITTEN TRAFFIC CONTROL & SIGNING PLAN (INCLUDING STREET CLOSURE DETAILS) TO THE ENGINEER BY TEN (10) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNAGE, BARRICADES, FLAGGERS AND OTHER DEVICES TO PROVIDE VEHICULAR, BICYCLE, AND PEDESTRIAN SAFETY.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL PULL BOX CONTENTS AFFECTED BY WORK TO ITS ORIGINAL STATE.
- CONTRACTOR SHALL ADJUST TO FINISHED GRADE ALL AFFECTED CITY-OWNED MANHOLES, STREET MONUMENTS, UTILITY BOX(ES), CLEANOUT FRAMES, AND COVERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE MUNICIPAL SERVICE CENTER AT 7101 EDGEWATER DRIVE. CONTACT THE ELECTRICAL CONSTRUCTION & MAINTENANCE PLANNER AT (510) 615-3685 48 HOURS IN ADVANCE, PRIOR TO DELIVERY.
- ALL PAVEMENT SHALL BE SAWCUT FULL DEPTH FOR PIPE TRENCH AND FOR PAVEMENT REMOVAL.
- VERIFICATION OF HORIZONTAL AND VERTICAL EXISTING UTILITY ALIGNMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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 7200 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.
- 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.

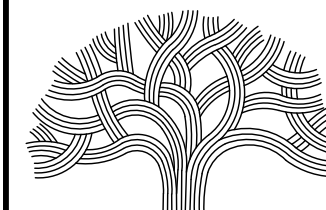
- THE CONTRACTOR SHALL CALL THE CITY OF OAKLAND ELECTRICAL DEPARTMENT AT (510) 615-5438 AND THE OFFICE OF INFORMATION TECHNOLOGIES AT (510) 238-2996 AT LEAST FIVE WORKING DAYS PRIOR TO STARTING WORK FOR FIELD MARKING OF ALL CITY ELECTRICAL AND FIRE ALARM FACILITIES. REFER TO 7-9 FOR SPECIAL REQUIREMENTS REGARDING DAMAGE TO CITY ELECTRICAL FACILITIES DURING CONSTRUCTION.
- EXISTING CITY AND STATE MONUMENTS SHALL NOT BE DISTURBED. IF A MONUMENT IS TO BE DISTURBED, THE CONTRACTOR MUST FIRST OBTAIN WRITTEN PERMISSION FROM THE CITY SURVEYOR. THERE IS A \$5,000 FEE PER MONUMENT FOR WHICH SUCH PERMISSION IS NOT OBTAINED. THIS FEE SHALL BE DEDUCTED FROM THE FOLLOWING PROGRESS PAYMENT. ANY MONUMENTS TO REMAIN THAT ARE ACCIDENTALLY DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA, AND A RECORD OR SURVEY SHALL BE PREPARED AND FILED. THE REPLACEMENT OR RELOCATION OF THESE SURVEY MONUMENTS MUST BE COORDINATED WITH THE CITY SURVEYOR. THE REPLACEMENT OR RELOCATION OF THESE MONUMENTS SHALL BE AT NO ADDITIONAL COST TO THE CITY. STATE LAW ALLOWS/REQUIRES WITHHOLDING OF THE FILING OF ANY NOTICE OF COMPLETION UNTIL ALL MATTERS INVOLVING CITY MONUMENTS. REFER TO SECTION 2-9 OF THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE REGARDING THE REPLACEMENT OF MONUMENTS DESTROYED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY SURVEY MONUMENTS WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES TO RESTORE OR ADJUST GRADES OF UTILITY BOXES, VALVES, AND FIRE HYDRANT, ETC. THIS IS PART OF THE CONSTRUCTION WORK, AND NO ADDITIONAL PAYMENT SHALL BE MADE.
- EXISTING SIGNAL LOOP DETECTORS THAT ARE DAMAGED OR REMOVED DURING WORK BY THE CONTRACTOR SHALL BE REPLACED WITH NEW MATERIAL OR BETTER IN QUALITY AND ACCEPTABLE TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- DIMENSIONS SHOWN ON PLANS ARE HORIZONTAL MEASUREMENTS.
- ALL NEW STREET SURFACES AND CONCRETE GUTTERS SHALL BE WATER TESTED BY THE CONTRACTOR TO ENSURE POSITIVE DRAINAGE AND ELIMINATION OF BIRD BATHS PRIOR TO INITIAL ACCEPTANCE.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES ALONG THE STREETS WHERE WORK OCCURS THROUGHOUT THE LIFE OF THE CONTRACT.
- THE CONTRACTOR SHALL VERIFY AND OBTAIN APPROVAL FROM THE CITY PRIOR TO ANY TRIMMING, REMOVAL, AND/OR DISTURBANCE OF EXISTING TREE ROOTS. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF CONTRACTOR'S CERTIFIED ARBORISTS.
- REFER TO SPECIFICATIONS FOR WORK HOUR AND WORK SEQUENCE RESTRICTIONS.
- ALL STREETS SHALL BE SWEEPED AND KEPT CLEAN AT THE END OF EACH DAY AND SHALL COMPLY WITH ALL APPLICABLE REGIONAL WATER QUALITY CONTROL BOARD REQUIREMENTS FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL PERFORM A PRE- AND POST-CONSTRUCTION INSPECTION ON ALL IMPACTED IMPROVEMENTS.

**ABBREVIATIONS:**

AB	AGGREGATE BASE	N/O	NORTH OF
ABN	ABANDON	N	NORTH/NORTHINGS
AC	ASPHALT CONCRETE	NA	NOT APPLICABLE
APPROX	APPROXIMATE	NF	NOT FOUND
AFS	ACCESSIBLE PEDESTRIAN SIGNAL	NIC	NOT IN CONTRACT
AT&T	AT&T TELECOMMUNICATION	NTS	NOT TO SCALE
AD	AVERAGE DEPTH	NO	NUMBER
AVE	AVENUE	(N)	NEW
BART	BAY AREA RAPID TRANSIT	NTV	NOT TELEVISED
BP	BEGIN POINT	OC	ON CENTER
BL	BLUE	OD	OUTSIDE DIAMETER
BLVD	BOULEVARD	OG	ORIGINAL GROUND
BW	BACK OF WALK	PED	PEDESTRIAN
CB	CATCH BASIN	PG&E	PACIFIC GAS & ELECTRIC
CE	CITY ELECTRICAL	PSI	POUNDS PER SQUARE INCH
C&G	CURB & GUTTER	PL	PROPERTY LINE
CI	CAST IRON	PLC	PLASTIC COATED STL PIPE
CIPP	CURED-IN-PLACE PIPE	PMB	PROCESSED MISCELLANEOUS BASE
CIR	CIRCLE	PROP	PROPOSED
CL/CL	CENTERLINE	PCC	POINT OF COMPOUND CURVE/ PORTLAND CEMENT CONCRETE
CO	CLEANOUT	PC	POINT OF CURVATURE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CONT	CONTINUE	PRC	POINT OF REVERSE CURVE
CR	CURB RAMP	PT	POINT OF TANGENCY
CT	COURT	PVC	POLYVINYL CHLORIDE PIPE
CTV	CABLE TELEVISION	PVT	PRIVATE
CMP	CORRUGATED METAL PIPE	RAP	RECLAIMED ASPHALT PAVEMENT
CWD	CREOSOTE WOOD DUCTS	RCP	REINFORCED CONCRETE PIPE
DC	DROP CONNECTION	RT	RIGHT
DI	DRAINAGE INLET	RD	ROAD, RED
DIA	DIAMETER	R/R	RAILROAD
DIP	DUCTILE IRON PIPE	R/W	RIGHT-OF-WAY
DOE	DEPTH OF EXCAVATION	RW	RETAINING WALL
DR	DRIVE	S	SLOPE/SOUTH
DWG	DRAWING	SCH	SCHEDULE
DWY	DRIVEWAY	SD	STORM DRAIN
E	ELECTRIC/EAST/EASTINGS	SS	SANITARY SEWER
EP	END POINT/EDGE OF PAVEMENT	SPECS	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2009 EDITION
EQ	EQUAL	SP	SPECIAL PROVISIONS
ETC	ETCETERA	SL	STREET LIGHT
EX, (E)	EXISTING	ST	STREET
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT	STA	STATION
EL	ELEVATION	STL	STEEL
EP	EDGE OF PAVEMENT	SW	SIDEWALK
ETW	EDGE OF TRAVELED WAY	SD	STORM DRAIN
F/O	FIBER OPTIC	SS	SANITARY SEWER
FA	FIRE ALARM	STR	STRUCTURE
FC	FACE OF CURB	T/TEL	TELEPHONE
FG	FINISHED GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	TS	TRAFFIC SIGNAL
FL	FLOWLINE	TP	TELEPHONE POLE
FOG	FRONT OF GUTTER	TV	TELEVISION
FR	FROM	TYP	TYPICAL
FT	FEET	UG	UNDERGROUND
G	GAS LINE	UPRR	UNION PACIFIC RAIL ROAD
GB	GRADE BREAK	VCP	VITRIFIED CLAY PIPE
GL	GUTTER LIP	W	WATER/WEST
GV	GAS VALVE	WHT	WHITE
ID	INSIDE DIAMETER	WV	WATER VALVE
INL	INLET	WWM	WELDED WIRE MESH
INV	INVERT	WY	WAY
IP	IRON PIPE		
JP	JOINT POLE		
LF	LINEAR FEET		
LH	LAMPHOLE		
LAT	LATERAL		
LOL	LAYOUT LINE		
LP	LIP OF GUTTER		
LT	LEFT		
L	LENGTH		
MH	MANHOLE		
MAX	MAXIMUM		
MIN	MINIMUM		
MON	MONUMENT		
ML	MATCHLINE		



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

GENERAL NOTES AND  
ABBREVIATIONS

PROJECT NO.	
<b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>G-1.3</b>
DATE: 10/25/2023	<b>4</b> OF <b>58</b>



**GENERAL NOTES**

- THIS SURVEY IS A TOPOGRAPHIC SURVEY ONLY. ANY PROPERTY LINES OR RIGHT-OF-WAY LIMITS SHOWN ARE BY RECORD OR GIS ONLY AND NO PROPERTY CORNERS HAVE BEEN SET OR ESTABLISHED. ALL PROPERTY LINES SHOWN HEREON WERE TAKEN IN PART FROM ALAMEDA COUNTY GIS ASSESSOR'S PARCELS LINES
- ALL ELEVATIONS SHOWN HEREON ARE CITY OF OAKLAND DATUM.
- ALL STREETS SHOWN ARE IN PUBLIC RIGHT OF WAYS
- MINOR CONTOUR INTERVALS ARE 0.2 FT., INDEX CONTOUR INTERVALS ARE 1.0 FT.
- DATE OF SURVEY MARCH-DECEMBER 2021.
- ALL ELEVATIONS AT THE CURB LINE ARE TOP OF CURB ELEVATIONS

**LEGEND**

- CABLE TV PULL BOX
- BUS STOP
- BIKE RACK
- BOLLARD
- BOLLARD (WITH CONCRETE PAD)
- CITY MONUMENT IN MONUMENT WELL
- CONTROL POINT (SURVEY)
- GROUND ROD
- ELECTRIC MAN HOLE
- ELECTRIC METER
- ELECTRIC PULL BOX (COO)
- CITY OF OAKLAND INTERCONNECT (COI)
- ELECTRIC PULL BOX (SLB)
- TV CABLE BOX
- ELECTRIC PULL BOX (TSB)
- ELECTRIC VAULT (PGE)
- LIGHT POST DOUBLE
- ELECTROLIER DOUBLE DAVIT
- ELECTROLIER DOUBLE DAVIT / TS
- ELECTROLIER SINGLE DAVIT
- ELECTROLIER SINGLE DAVIT / TS
- ELECTROLIER TRAFFIC SIGNAL MAST
- ELECTROLIER SINGLE DAVIT/TS MAST ON SIDEWALK
- PEDESTRIAN TRAFFIC SIGNAL
- ELECTRODE TESTING STATION
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL CONTROL CABINET
- CONTROL PANEL
- TRAFFIC SIGNAL CONTROL CABINET METER
- TRAFFIC SIGNAL DETECTOR PULL BOX
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- WATER VAULT
- WATER METER
- WATER VALVE
- GAS MAN HOLE
- GAS METER
- GAS VALVE
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER LAMP HOLE
- SANITARY SEWER MAN HOLE
- SIGN
- STORM DRAIN MAN HOLE
- STORM DRAIN CURB INLET
- PARKING METER
- FIBER OPTICS PULL BOX
- MAILBOX
- TRASH CAN
- BENCH
- RAIL
- TELEPHONE MAN HOLE
- TELEPHONE PULL BOX
- UNKNOWN MAN HOLE
- UNKNOWN UTILITY
- CONCRETE
- ASPHALT CONCRETE
- BUILDING

**LINE TYPES**

- CENTER LINE
- MONUMENT LINE EXTENDED
- PROPERTY LINE
- RIGHT-OF-WAY
- SANITARY SEWER LINE
- STORM DRAIN LINE
- WROUGHT IRON FENCE

**ABBREVIATIONS**

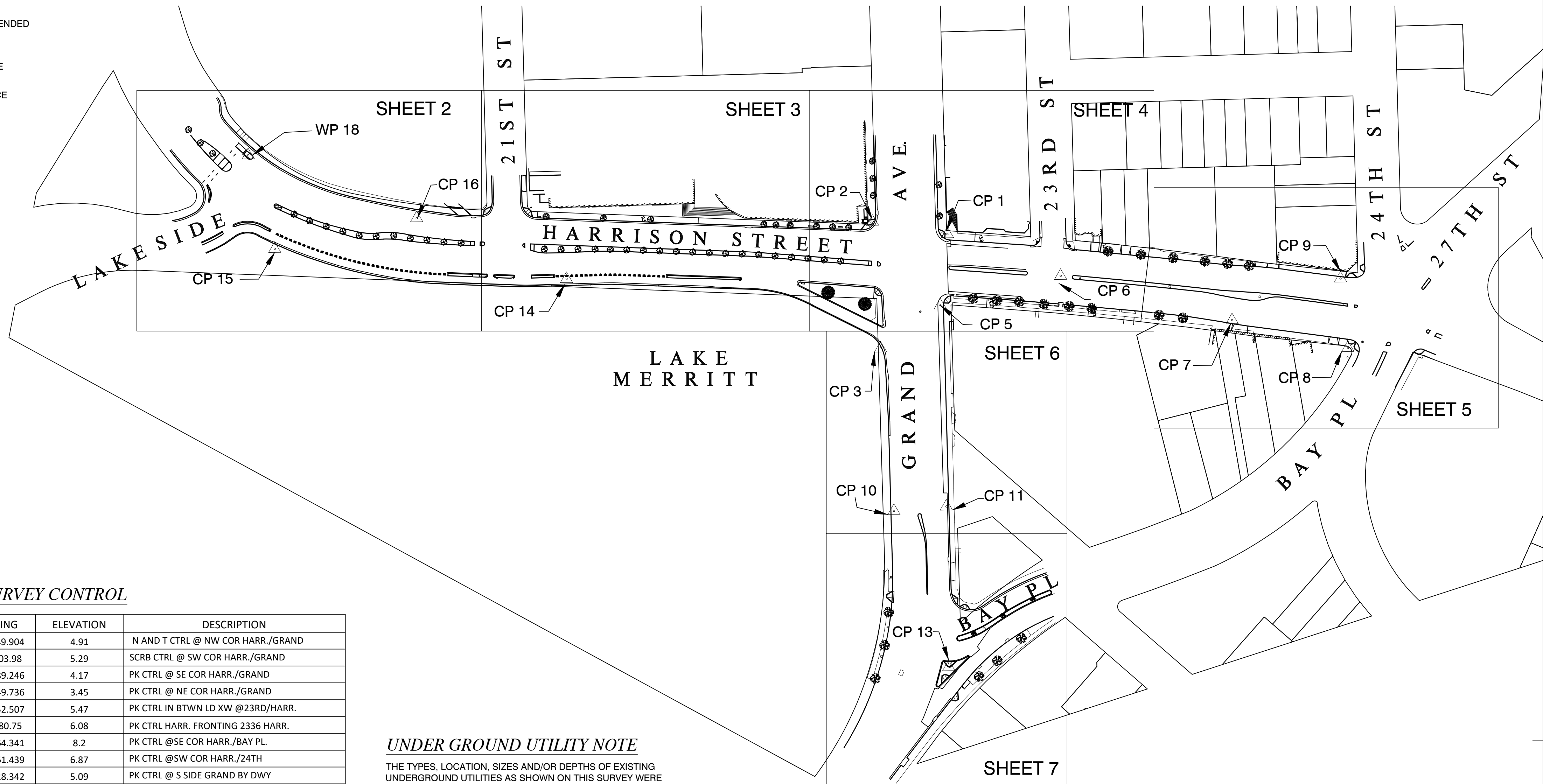
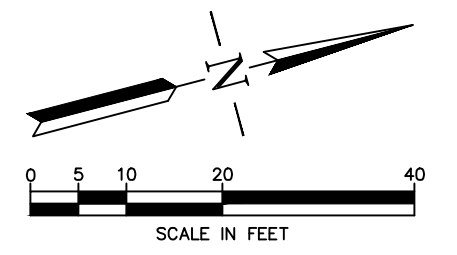
- AC ASPHALT CONCRETE
- BKR BICYCLE RACK
- BW BACK OF SIDE WALK
- CE CONCRETE EDGE
- CL CENTER LINE
- CONC CONCRETE
- CP CONTROL POINT (SURVEY)
- COR CORNER
- CR CURB RAMP
- DW DRIVE WAY
- FC FACE OF CURB
- LG LIP OF GUTTER
- PLNT PLANTER
- R/W RIGHT-OF-WAY
- UWD UNDER WALK DRAIN
- WIF WROUGHT IRON FENCE
- XWALK CROSS WALK

**SURVEY CONTROL**

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2122588.834	6052549.904	4.91	N AND T CTRL @ NW COR HARR./GRAND
2	2122485.498	6052503.98	5.29	SCRB CTRL @ SW COR HARR./GRAND
3	2122449.777	6052689.246	4.17	PK CTRL @ SE COR HARR./GRAND
5	2122551.917	6052649.736	3.45	PK CTRL @ NE COR HARR./GRAND
6	2122736.135	6052652.507	5.47	PK CTRL IN BTWN LD XW @23RD/HARR.
7	2122966.427	6052780.75	6.08	PK CTRL HARR. FRONTING 2336 HARR.
8	2123122.613	6052864.341	8.2	PK CTRL @SE COR HARR./BAY PL.
9	2123138.151	6052761.439	6.87	PK CTRL @SW COR HARR./24TH
10	2122407.926	6052928.342	5.09	PK CTRL @ S SIDE GRAND BY DWY
11	2122484.895	6052941.717	6.04	PK CTRL N SIDE GRAND ACROSS CP10
13	2122428.086	6053173.837	10.51	PK CTRL @ PORKCHOP BAY PL./GRAND
14	2122023.634	6052471.349	3.84	PK CTRL @ BKLN E SIDE HARR @21ST.
15	2121614.965	6052318.344	5.02	SCRB CTRL SW @HARR/LKSD
16	2121830.906	6052327.561	3.85	PK CTRL NEAR BKLN W SIDE HARR/21ST
18	2121611.799	6052173.655	5.29	WP (WORK POINT) IN ISLAND @T.L. BERK. WY/HARR.

# TOPOGRAPHIC SURVEY OF HARRISON ST AND GRAND AVE LAKESIDE FAMILY STREETS

CITY PROJECT NO.: 1004836



**UNDER GROUND UTILITY NOTE**

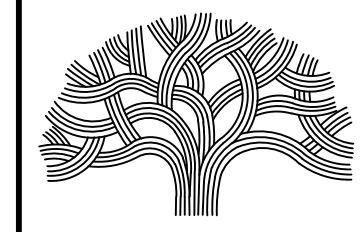
THE TYPES, LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS SURVEY WERE OBTAINED IN PART FROM FIELD AND OFFICE COMPILATION, THE LATER BEING A SOURCE OF VARYING RELIABILITY. REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UTILITIES, HOWEVER, THE SURVEYOR CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECT OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THIS MAP. ONLY AN ACTUAL EXCAVATION WOULD REFLECT THE SIZE AND EXTENT OF SAID UNDERGROUND OBJECTS AND/OR UTILITIES.

**SURVEYOR'S STATEMENT**

THIS MAP CORRECTLY REPRESENTS A FIELD SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYORS' ACT, AT THE REQUEST OF EDMOND SIU / CITY OF OAKLAND, ON JANUARY OF 2021.



LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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

CITY SURVEYOR  
**RAYMOND HEBERT**  
PLS NO. 5870

CHECKED BY **RH**  
DRAWN BY **KP**

SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

EXISTING CONDITIONS:

TOPOGRAPHIC SURVEY  
COVER SHEET

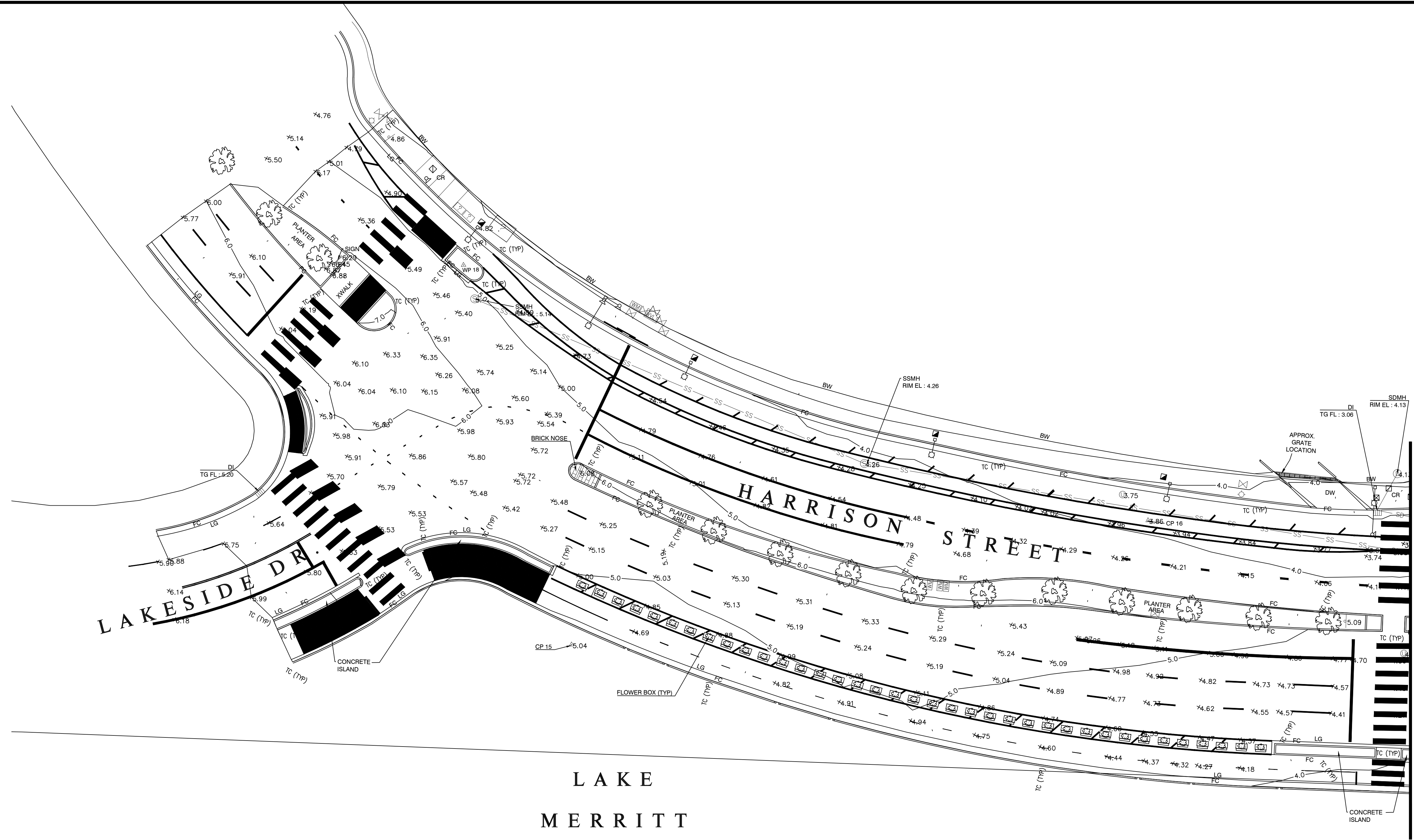
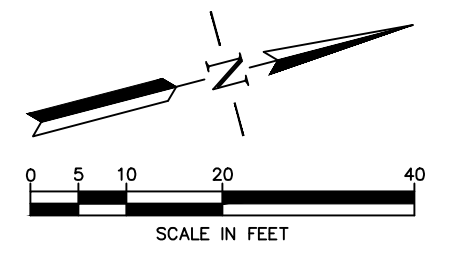
PROJECT NO.  
**1004836**

SCALE:  
1" = 100'

DATE:  
9/29/23

SHEET NO.  
**G-2.0**  
5 OF 58

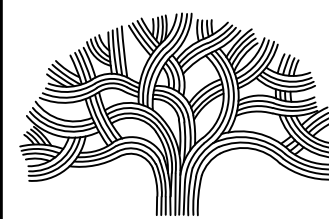




MATCHLINE SEE SHEET 2



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

DEPARTMENT OF TRANSPORTATION  
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CITY SURVEYOR  
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CHECKED BY **RH**  
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SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

EXISTING CONDITIONS:

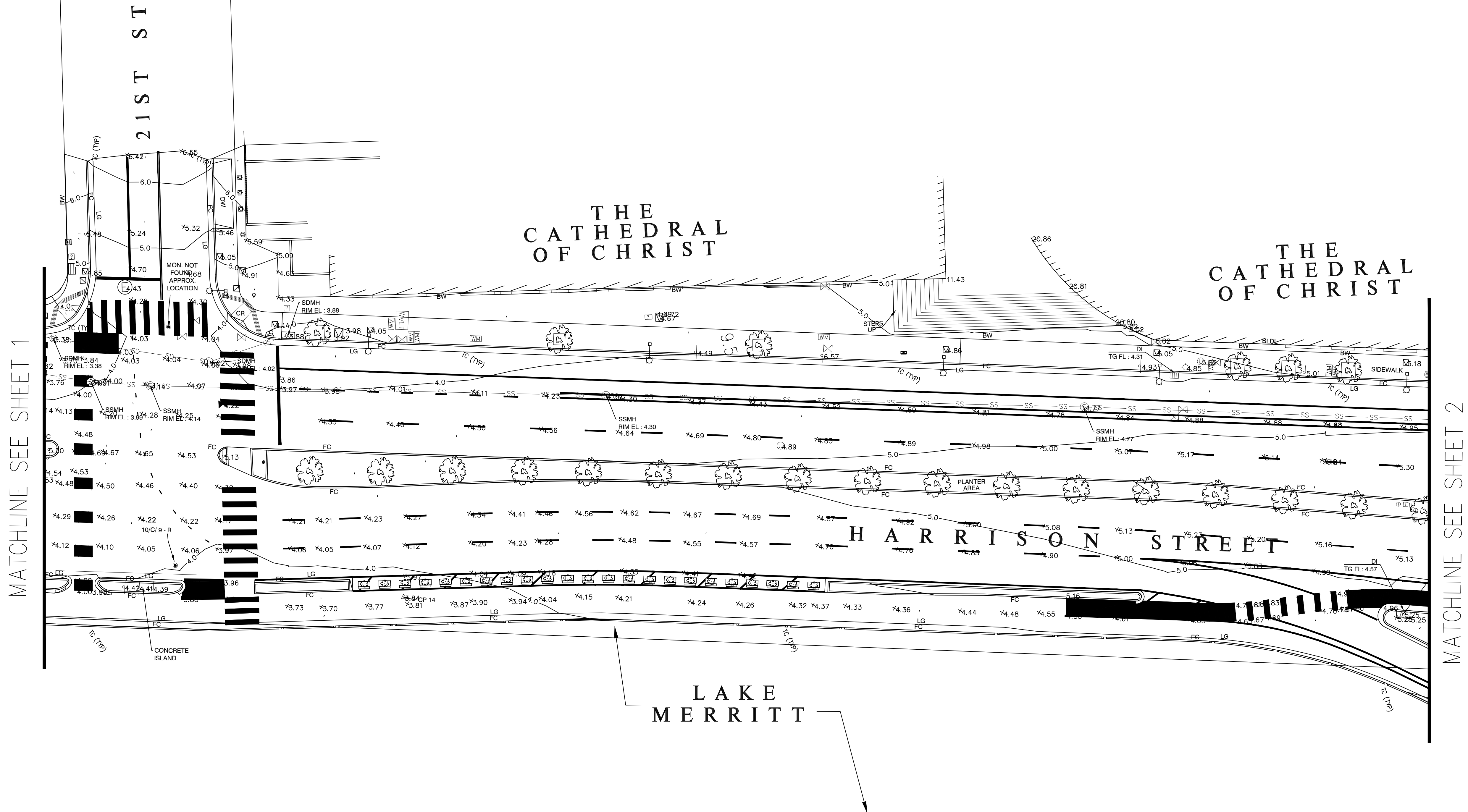
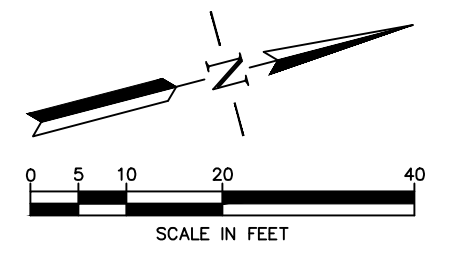
TOPOGRAPHIC SURVEY  
SHEET 1 OF 6

PROJECT NO.  
**1004836**

SCALE:  
1" = 20'  
DATE:  
9/29/23

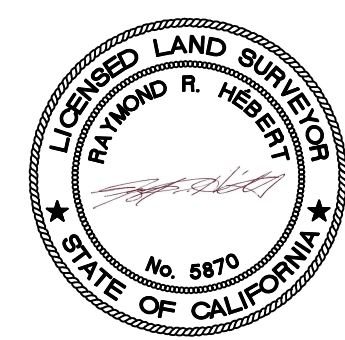
SHEET NO.  
**G-2.1**  
6 OF 58



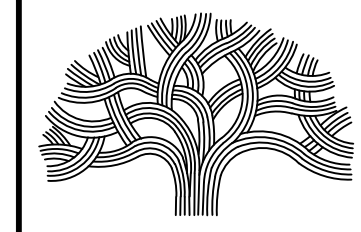


MATCHLINE SEE SHEET 1

MATCHLINE SEE SHEET 2



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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CITY SURVEYOR  
**RAYMOND HEBERT**  
PLS NO. 5870  
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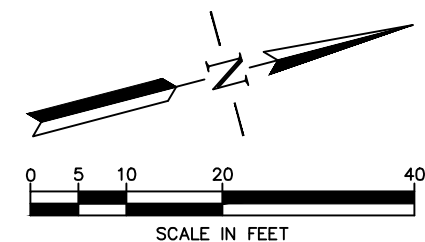
SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

EXISTING CONDITIONS:  
  
TOPOGRAPHIC SURVEY  
SHEET 2 OF 6

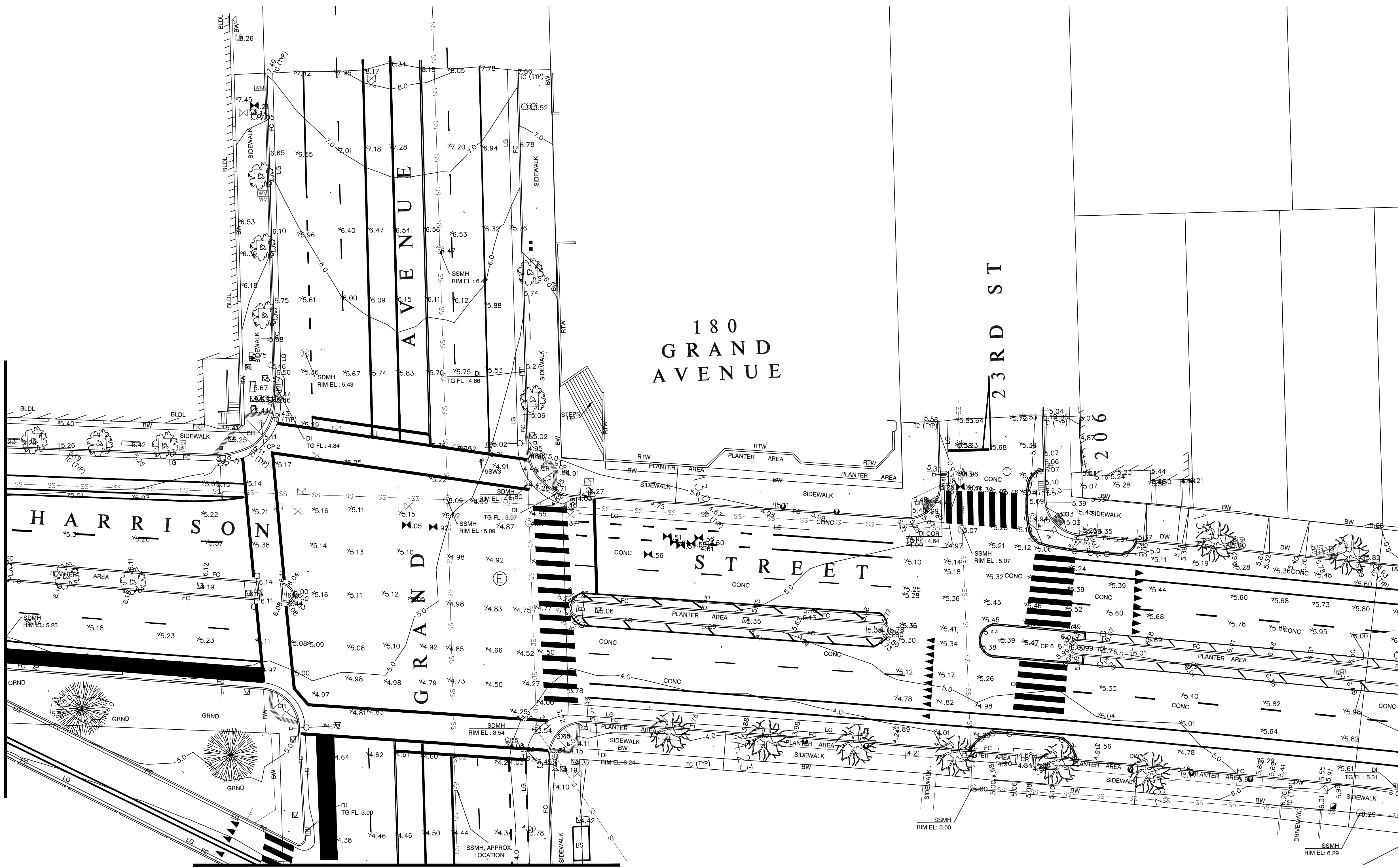
PROJECT NO. <b>1004836</b>	
SCALE: 1" = 20'	SHEET NO. <b>G-2.2</b>
DATE: 9/29/23	<b>7</b> OF <b>58</b>

DRAWING NAME: Lakeside Family Streets (ES)2 - DESIGN: CAD:1 - Xrefs From Survey (S) Family Preliminary - Pht 1,2,3,4.dwg  
PLOT DATE: 11-13-23  
PLOT BY: weng93



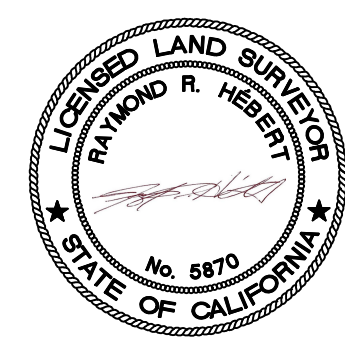


MATCHLINE SEE SHEET 2

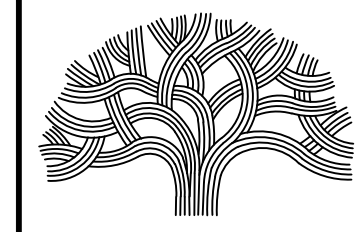


MATCHLINE SEE SHEET 4

MATCHLINE SEE SHEET 5



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

DEPARTMENT OF TRANSPORTATION  
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CITY SURVEYOR  
**RAYMOND HEBERT**  
PLS NO. 5870

CHECKED BY **RH**  
DRAWN BY **KP**

SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

EXISTING CONDITIONS:

TOPOGRAPHIC SURVEY  
SHEET 3 OF 6

PROJECT NO.  
**1004836**

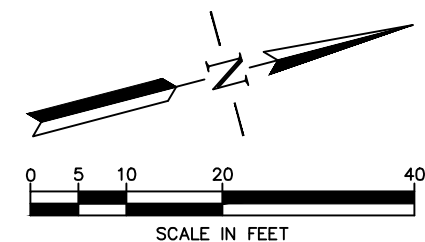
SCALE:  
1" = 20'

DATE:  
9/29/23

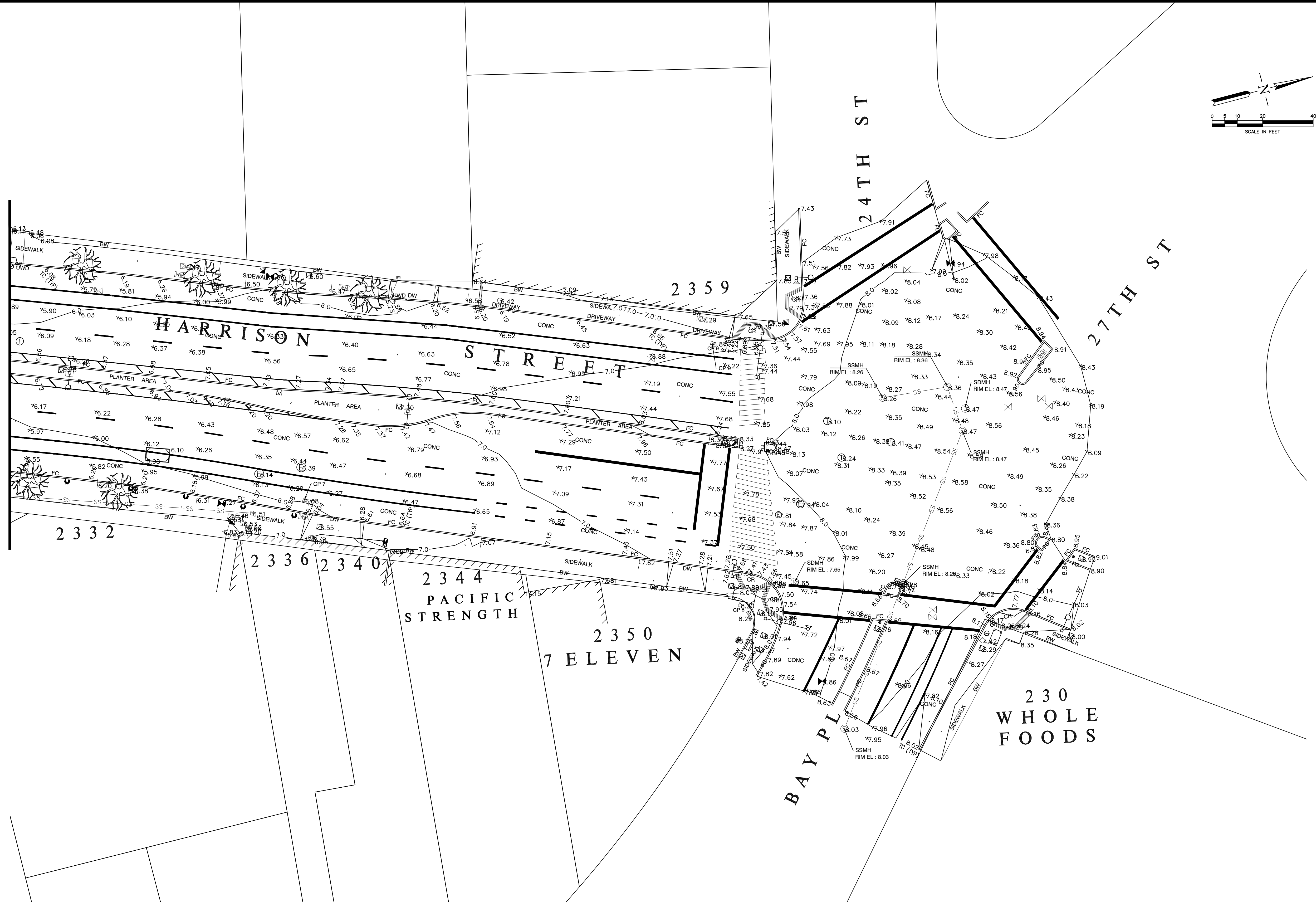
SHEET NO.  
**G-2.3**  
8 OF 58

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CSDT, ACTIVE/1004836 - Lakeside Family Streets (S)2 - DESIGN/ CAD/1 - Xrefs From Survey/LS/Plm/Prm - Pht 1,2,3-4.dwg  
PLOT DATE: 11-13-23  
PLOTTED BY: wang93

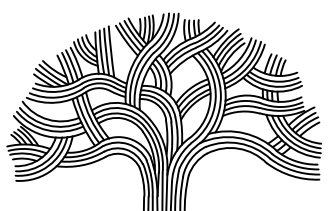




MATCHLINE SEE SHEET 3



LAKESIDE FAMILY STREETS



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CITY SURVEYOR  
**RAYMOND HEBERT**  
PLS NO. 5870

CHECKED BY: **RH**  
DRAWN BY: **KP**

SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

EXISTING CONDITIONS:  
  
TOPOGRAPHIC SURVEY  
SHEET 4 OF 6

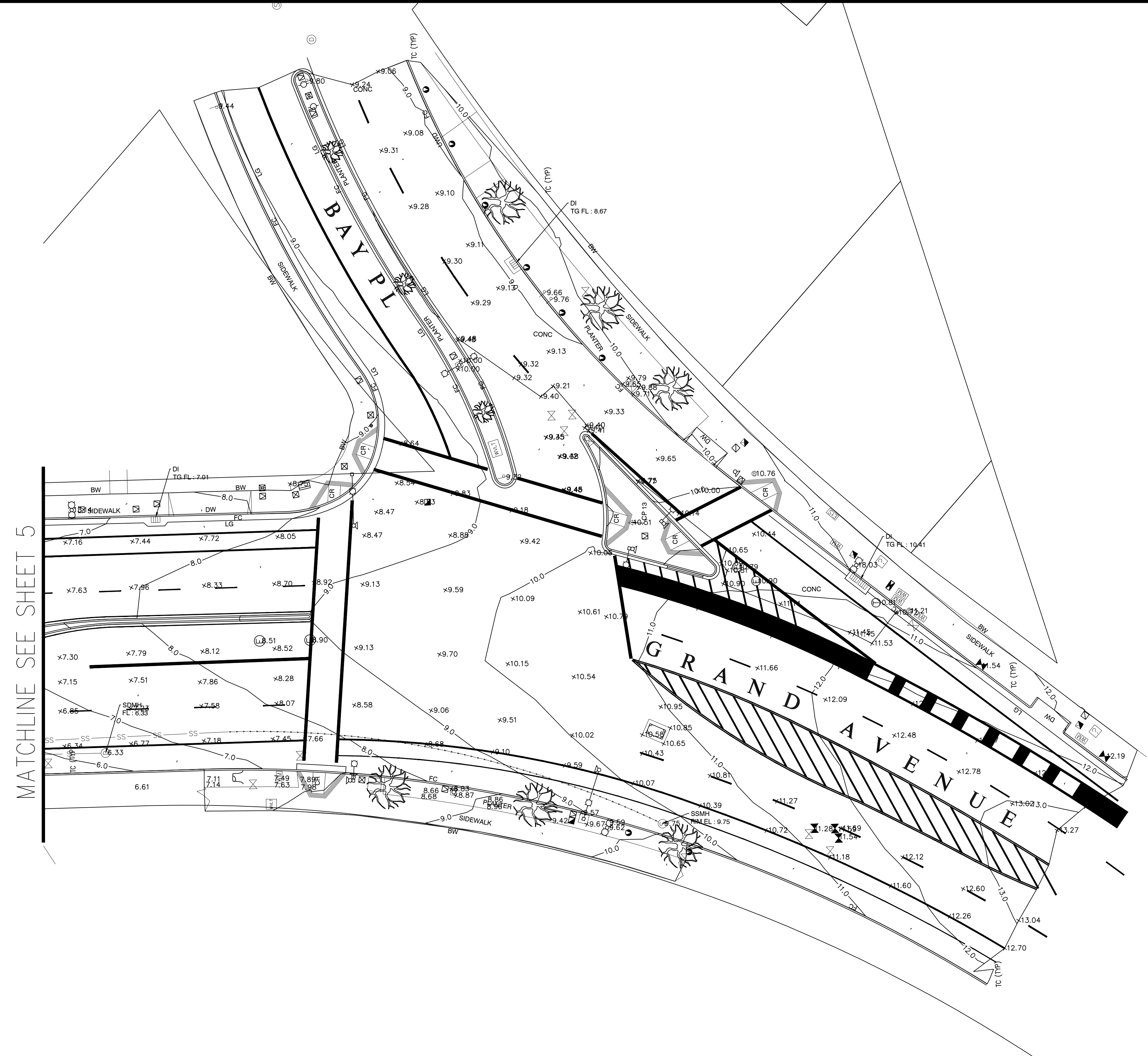
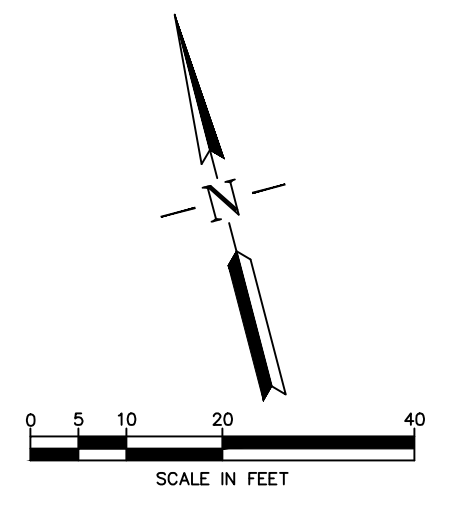
PROJECT NO. <b>1004836</b>	
SCALE: 1" = 20'	SHEET NO. <b>G-2.4</b>
DATE: 9/29/23	<b>9</b> OF <b>58</b>

DRAWING NAME: Lakeside Family Streets (ES)2 - DESIGN: CAD: T. Xie/From Survey/ES/Prim/Prim - Pht 1,2,3.dwg  
PLOT DATE: 11/13/23  
PLOT BY: wang93

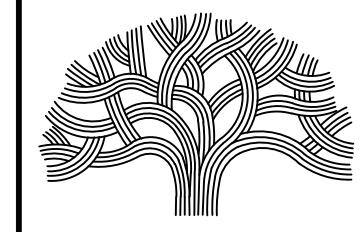








LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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CITY SURVEYOR  
**RAYMOND HEBERT**  
PLS NO. 5870  
CHECKED BY **RH**  
DRAWN BY **KP**

SURVEY CONTROL	REFERENCE
1 - 3, 13, 5, 6, 11	LEVEL BOOK 1704 - PG 0 - 2
7 - 9	LEVEL BOOK 1704 - PG 3 - 5
10	LEVEL BOOK 1704 - PG 6 - 7
14 - 16	LEVEL BOOK 1704 - PG 8 - 9

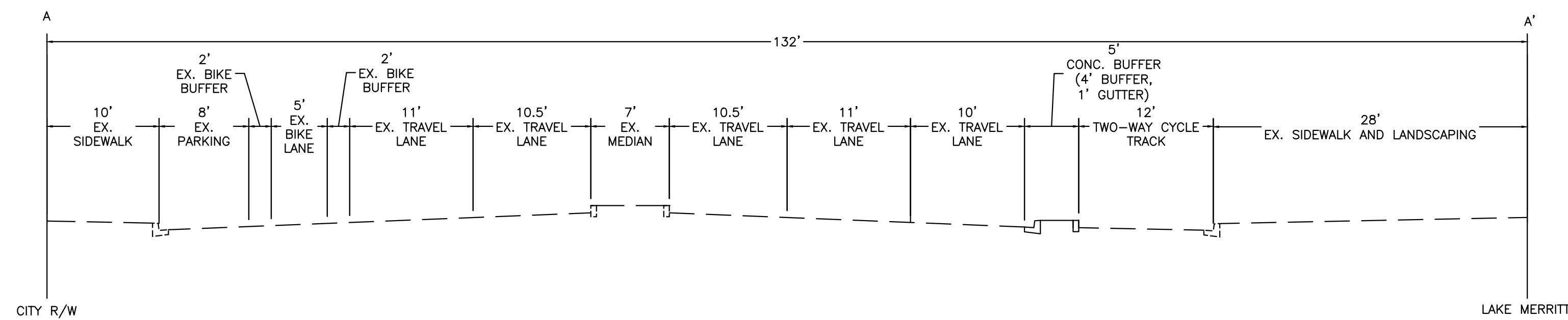
EXISTING CONDITIONS:

TOPOGRAPHIC SURVEY  
SHEET 6 OF 6

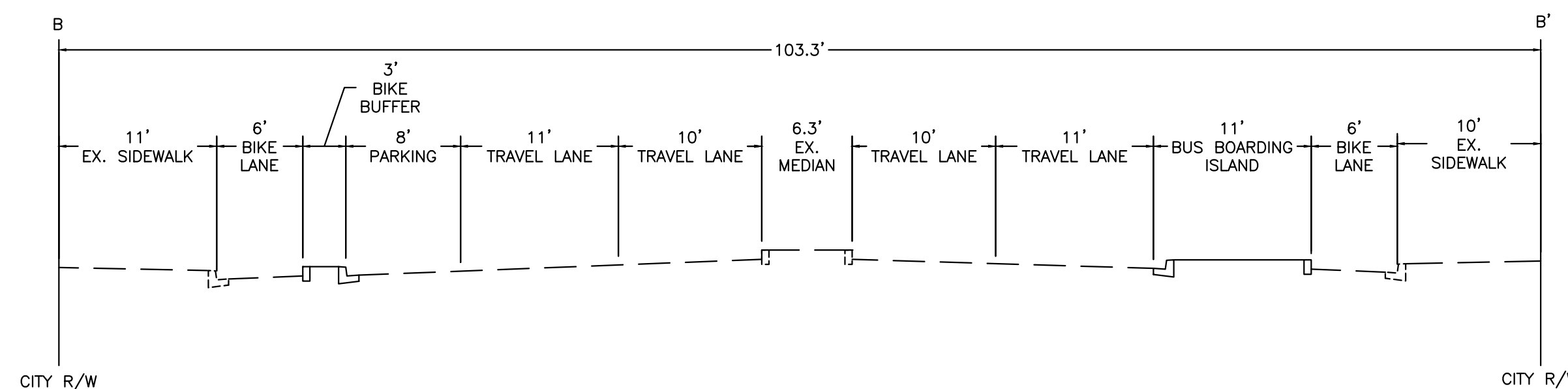
PROJECT NO.  
**1004836**

SCALE:  
1" = 20'  
DATE:  
9/29/23

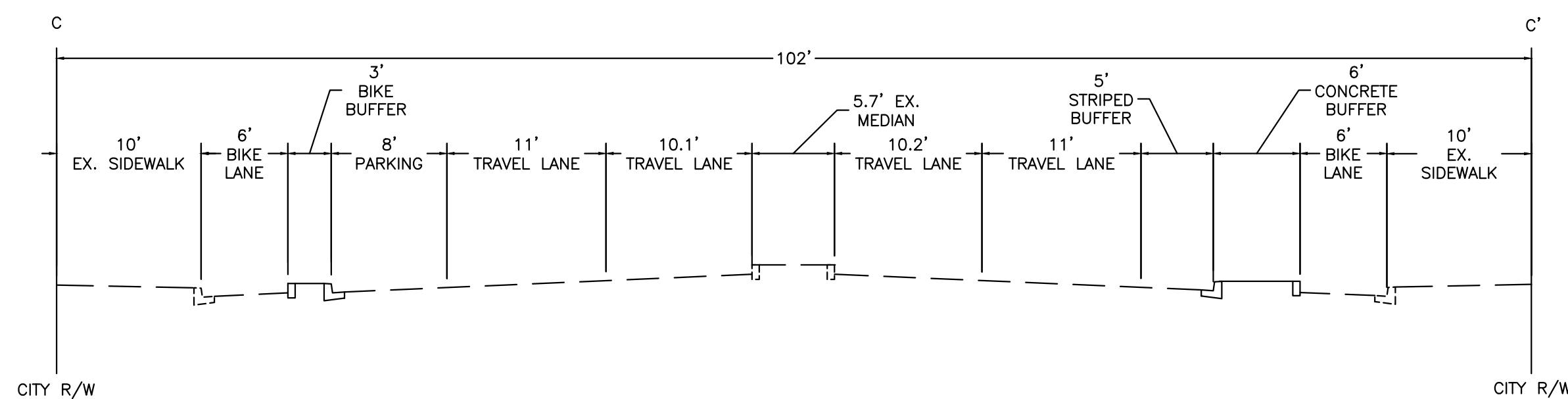
SHEET NO.  
**G-2.6**  
11 OF 58



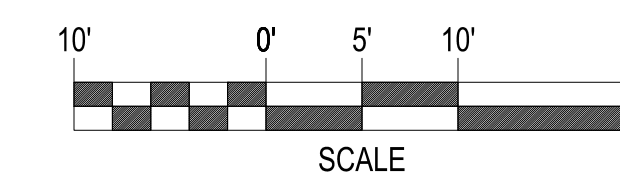
SECTION A-A': HARRISON ST BETWEEN LAKESIDE DR AND W GRAND AVE



SECTION B-B': HARRISON ST BETWEEN W GRAND AVE AND 23RD ST

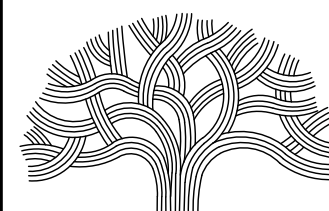


SECTION C-C': HARRISON ST BETWEEN 23RD AND 24TH ST/27TH ST (STA 116+00)



SUPERVISING CIVIL ENGINEER

LAKESIDE FAMILY STREETS



CITY OF OAKLAND

DEPARTMENT OF TRANSPORTATION  
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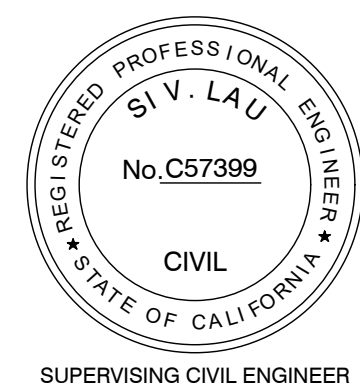
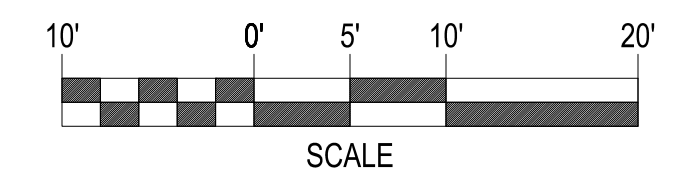
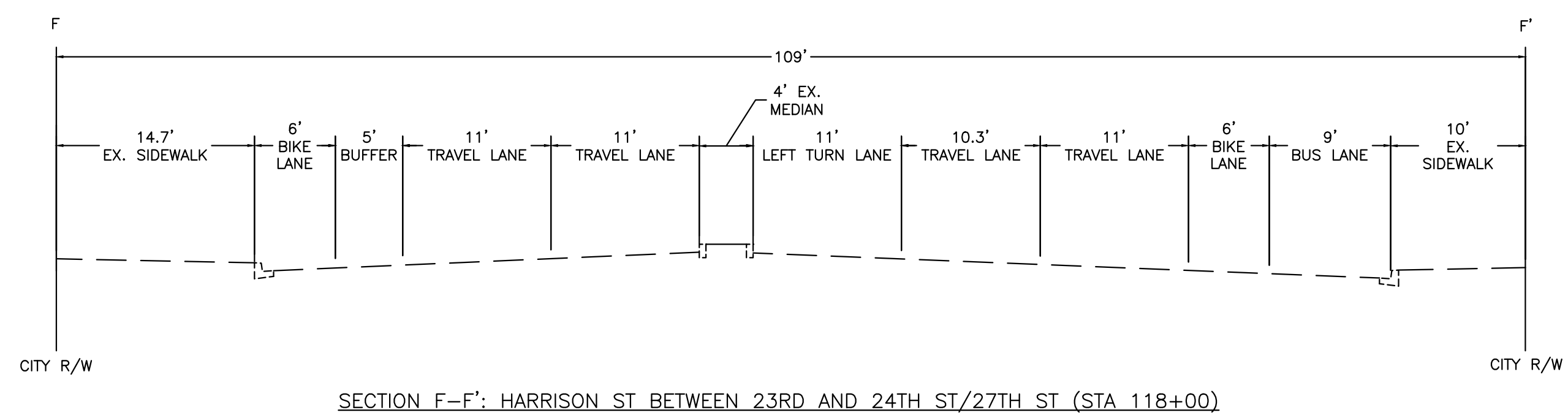
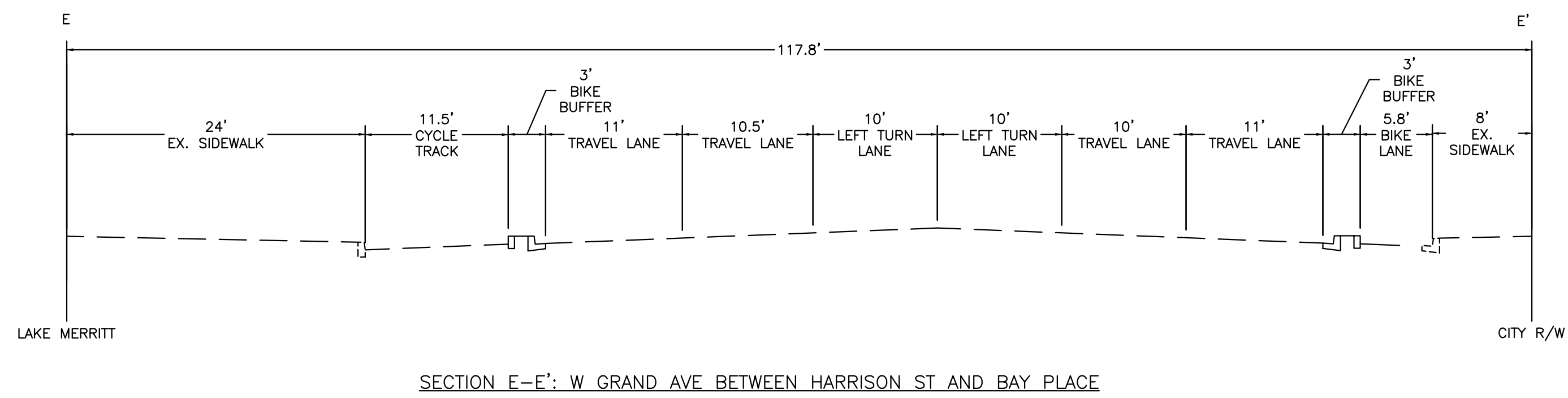
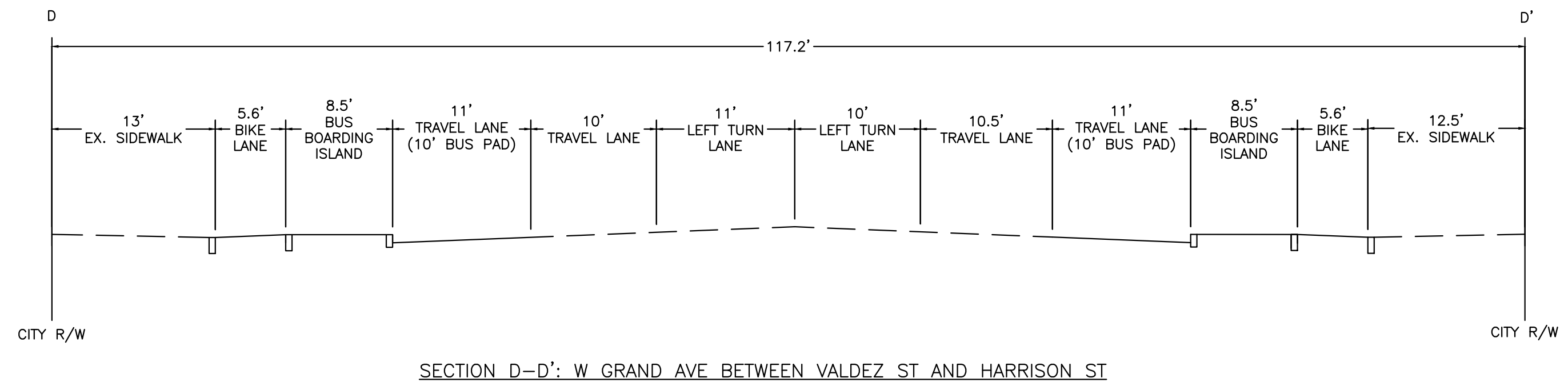
CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

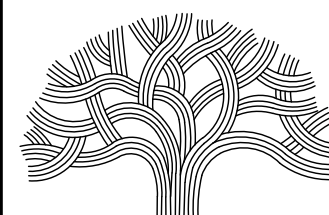
TYPICAL CROSS SECTIONS  
1 OF 2

PROJECT NO. <b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>G-3.1</b>
DATE: 10/25/2023	<b>12</b> OF <b>58</b>





LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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250 FRANK H. OGAWA PLAZA, SUITE 4314 \* OAKLAND CA, 94612  
(510) 238-3437 \* FAX (510) 238-7227

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

TYPICAL CROSS SECTIONS  
2 OF 2

PROJECT NO.

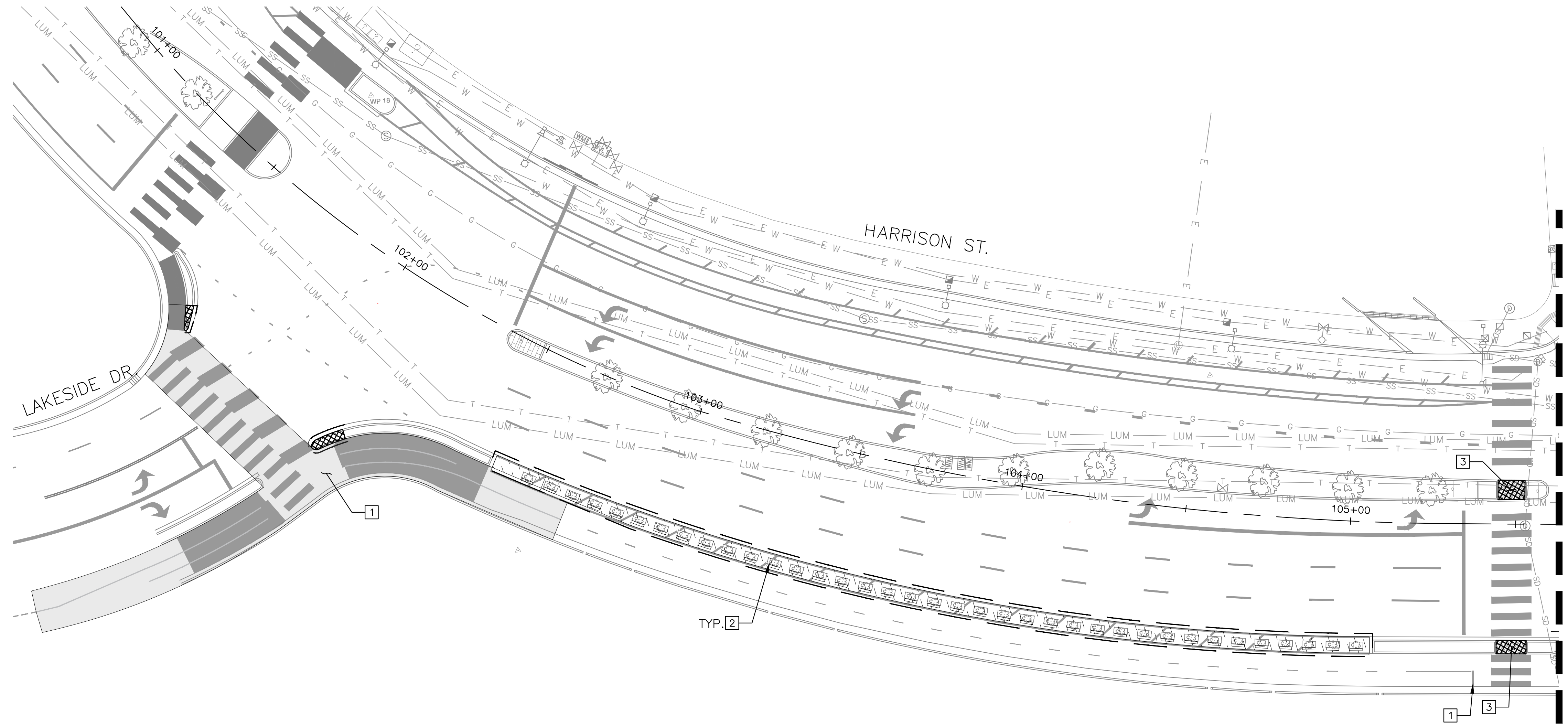
**1004836**

SCALE:  
AS SHOWN  
DATE:  
10/25/2023

SHEET NO.  
**G-3.2**  
13 OF 58

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE DUE TO CONTRACTOR'S OPERATIONS.
- THE DEMOLITION PLAN IS NOT INTENDED TO INDICATE THE METHOD, DETAILS AND/OR MEANS OF PERFORMING THE DEMOLITION WORK.
- ALL EXISTING UTILITIES AND APPURTENANCES THERETO SERVING ANY EXISTING STRUCTURE OR BUILDINGS ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE UNLESS INDICATED TO BE REMOVED AND REPLACED ELSEWHERE ON THESE PLANS.
- DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS SHALL BE CONDUCTED IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH STREETS, SIDEWALKS, AND OTHER ADJACENT OCCUPIED OR UTILIZED FACILITIES.
- THE CONTRACTOR SHALL ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE DEMOLITION AREA. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES.
- THE CONTRACTOR SHALL PROMPTLY REPAIR ANY DAMAGE CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COST TO THE OWNER.
- DUST CONTROL SHALL BE IMPLEMENTED DURING ALL DEMOLITION AND GRADING OPERATIONS. PUBLIC STREETS SHALL BE SWEEPED CLEAN AS NECESSARY.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMMUNICATIONS WITH ALL ADJACENT PROPERTY OWNERS FOR WORK TO BE PERFORMED ADJACENT TO THEIR PROPERTIES.
- WHERE EXISTING CONCRETE OR ASPHALT PAVING WILL BE DEMOLISHED AND ADJACENT CONCRETE OR ASPHALT CONCRETE WILL BE RETAINED, SAWCUT TO ENSURE CLEAN AND NEAT SEPARATION. WHERE PRACTICE, SAWCUT AT EXISTING SCORELINES.
- A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE CITY SURVEYOR PRIOR TO CONSTRUCTION, AND IN ACCORDANCE TO THE STATE OF CALIFORNIA, BUSINESS AND PROFESSIONAL CODE, SECTION 8771.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA NORTH) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND UTILITIES.
- ALL EXISTING SURVEY MONUMENTS SHALL BE PRESERVED. ANY MONUMENT DISTURBED WITHOUT THE WRITTEN CONSENT OF THE CITY SURVEYOR MAY INCUR A FINE OF UP TO \$5,000. CONTRACTOR SHALL ARRANGE AND PAY FOR PREVIOUS STRUCTURE REFERENCING AND REPLACEMENT OF ANY MONUMENT WHICH MAY BE DISTURBED BY THEIR WORK. REFER TO SECTION 8771 OF THE B&P CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR ADJUSTMENT OF EXISTING UTILITY BOX, VALVE, VAULT, MANHOLE, AND FIRE HYDRANT.
- SEE ELECTRICAL PLAN SHEETS FOR THE REMOVAL OF TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT.
- SEE UTILITY PLAN SHEETS FOR THE REMOVAL OF STORM DRAIN FACILITIES.



MATCHLINE  
SEE SHEET D-1.2

LEGEND:

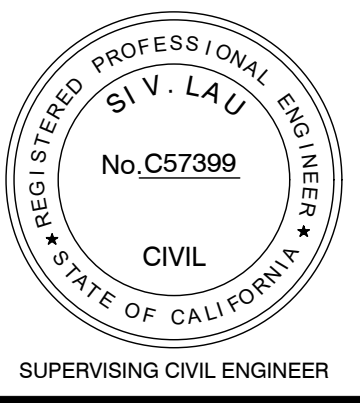
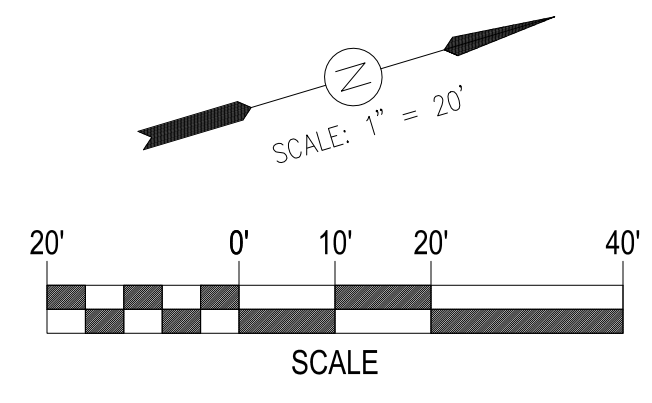
- SAWCUT LINE
- REMOVE FULL DEPTH PAVEMENT SECTION (ROADWAY EXCAVATION)
- REMOVE (E) CONCRETE FLATWORK
- LIMIT OF REMOVING (E) PAVEMENT MARKINGS AND/OR STRIPING

CONSTRUCTION NOTES:

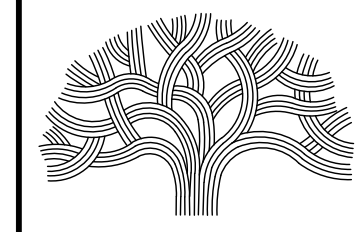
- 1** REMOVE (E) TRAFFIC PAVEMENT MARKINGS AND/OR STRIPING
- 2** REMOVE (E) PLANTERS
- 3** REMOVE (E) DETECTABLE WARNING SURFACE

CORING DATA			
DATE	AC DEPTH (in)	PCC DEPTH (in)	LOCATION
N/A	14.5	N/A	180 GRAND AVENUE
12/14/2007	5	6.5	SB LANE - 35' S/O GRAND AVE
12/14/2007	8	7	NB LANE - 90' S/O GRAND AVE
12/11/2008	N/A	8	27TH ST/HARRISON ST - 13.5' N/O FOC

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LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SU/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

CONSTRUCTION PLANS:

DEMOLITION PLAN  
1 OF 6

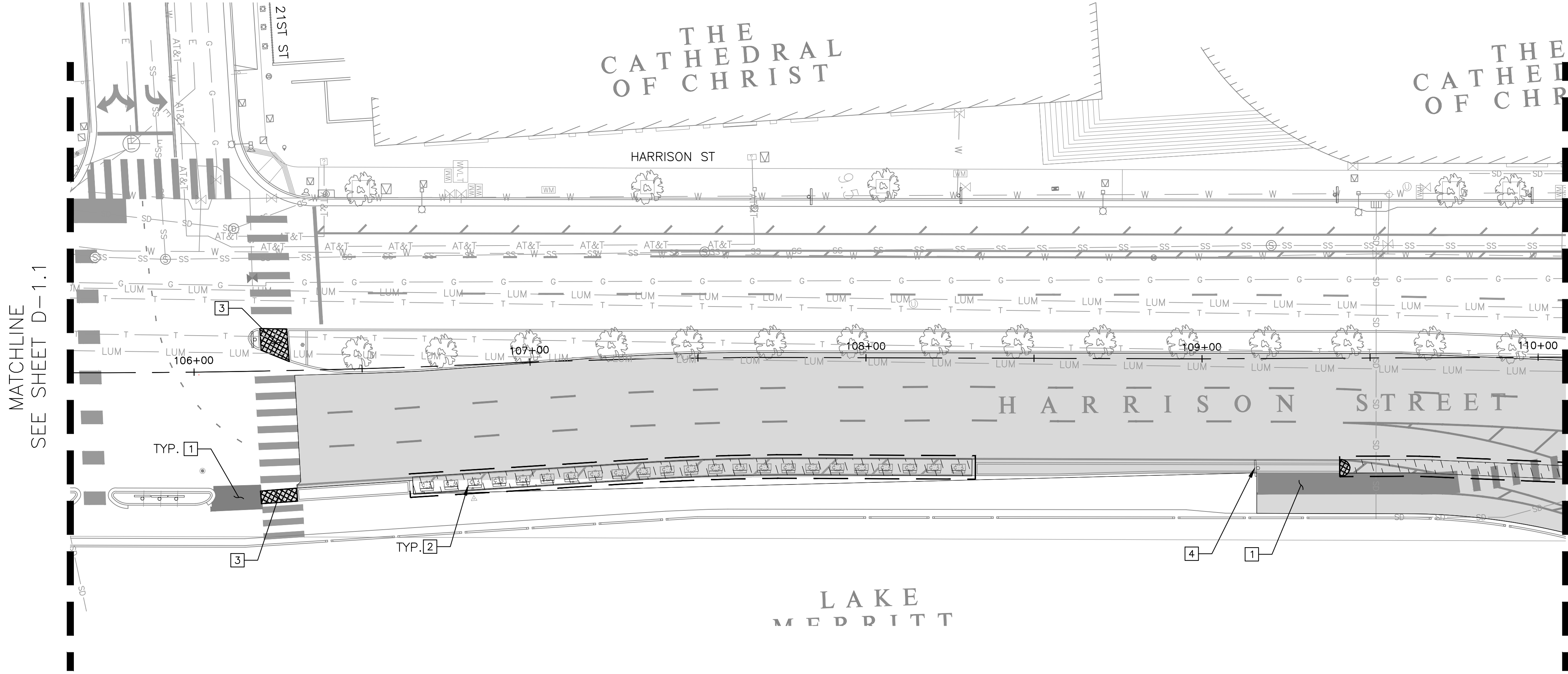
PROJECT NO.  
**1004836**

SHEET NO.  
**D-1.1**  
14 OF 58



**GENERAL NOTES:**

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- DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS SHALL BE CONDUCTED IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH STREETS, SIDEWALKS, AND OTHER ADJACENT OCCUPIED OR UTILIZED FACILITIES.
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- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMMUNICATIONS WITH ALL ADJACENT PROPERTY OWNERS FOR WORK TO BE PERFORMED ADJACENT TO THEIR PROPERTIES.
- WHERE EXISTING CONCRETE OR ASPHALT PAVING WILL BE DEMOLISHED AND ADJACENT CONCRETE OR ASPHALT CONCRETE WILL BE RETAINED, SAWCUT TO ENSURE CLEAN AND NEAT SEPARATION. WHERE PRACTICE, SAWCUT AT EXISTING SCORELINES.
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- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA NORTH) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND UTILITIES.
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- SEE ELECTRICAL PLAN SHEETS FOR THE REMOVAL OF TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT.
- SEE UTILITY PLAN SHEETS FOR THE REMOVAL OF STORM DRAIN FACILITIES.



MATCHLINE  
SEE SHEET D-1.1

MATCHLINE  
SEE SHEET D-1.3

**LEGEND:**

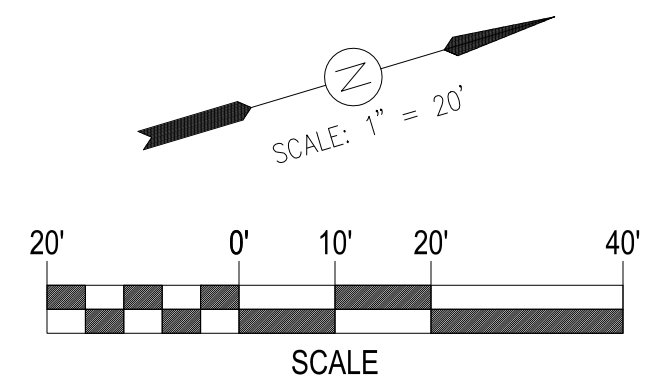
- SAWCUT LINE
- REMOVE FULL DEPTH PAVEMENT SECTION (ROADWAY EXCAVATION)
- REMOVE (E) CONCRETE FLATWORK
- LIMIT OF REMOVING (E) PAVEMENT MARKINGS AND/OR STRIPING

**CONSTRUCTION NOTES:**

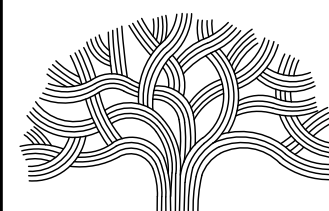
- REMOVE (E) TRAFFIC PAVEMENT MARKINGS AND/OR STRIPING
- REMOVE (E) PLANTERS
- REMOVE (E) DETECTABLE WARNING SURFACE
- REMOVE (E) SIGN AND POST

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**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
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DESIGNED BY SK/JW				
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**CONSTRUCTION PLANS:**

DEMOLITION PLAN  
2 OF 6

PROJECT NO.  
**1004836**

SCALE:  
1" = 20'  
DATE:  
10/25/2023

SHEET NO.  
**D-1.2**  
15 OF 58



**GENERAL NOTES:**

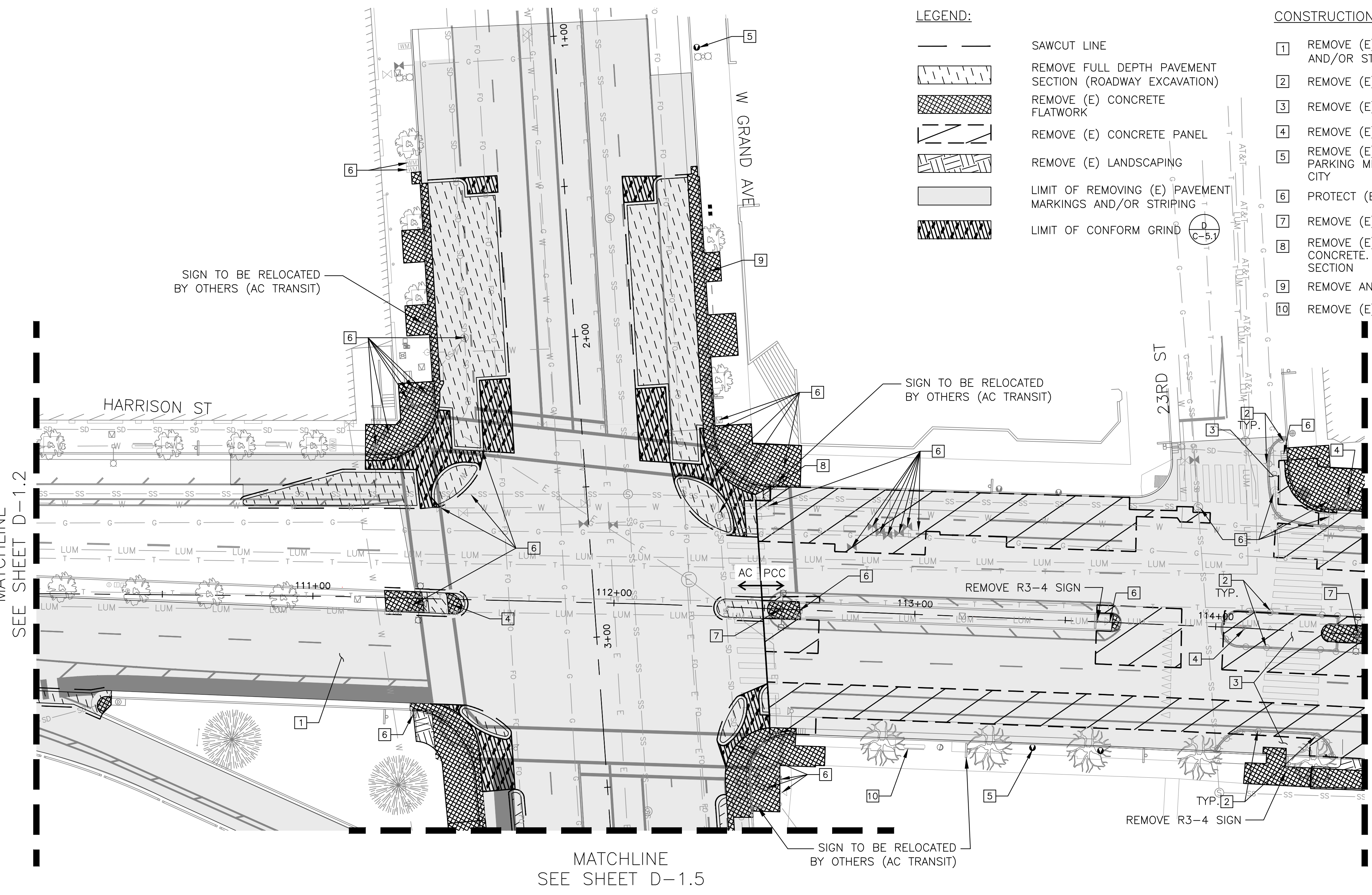
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- SEE UTILITY PLAN SHEETS FOR THE REMOVAL OF STORM DRAIN FACILITIES.

**LEGEND:**

- SAWCUT LINE
- REMOVE FULL DEPTH PAVEMENT SECTION (ROADWAY EXCAVATION)
- REMOVE (E) CONCRETE FLATWORK
- REMOVE (E) CONCRETE PANEL
- REMOVE (E) LANDSCAPING
- LIMIT OF REMOVING (E) PAVEMENT MARKINGS AND/OR STRIPING
- LIMIT OF CONFORM GRIND

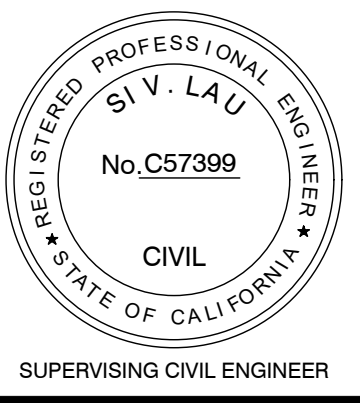
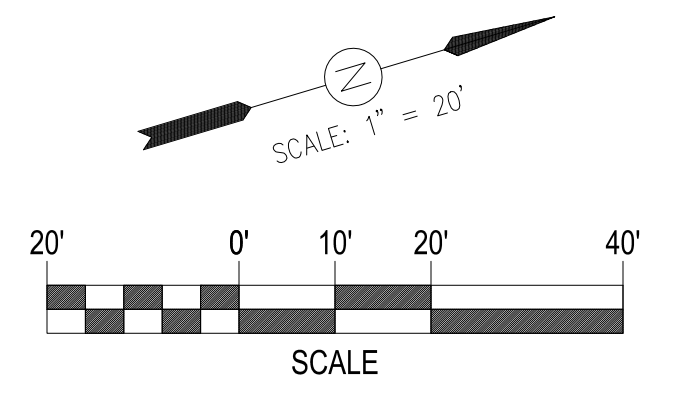
**CONSTRUCTION NOTES:**

- REMOVE (E) TRAFFIC PAVEMENT MARKINGS AND/OR STRIPING
- REMOVE (E) BOLLARD
- REMOVE (E) PURPLE PAVEMENT MARKING
- REMOVE (E) SIGN AND POST
- REMOVE (E) PARKING METER POST. (E) PARKING METER HEAD TO BE REMOVED BY CITY
- PROTECT (E) FACILITY DURING DEMOLITION
- REMOVE (E) STREET LIGHT
- REMOVE (E) AC SECTION AND REPLACE WITH CONCRETE. MATCH ADJACENT CONCRETE SECTION
- REMOVE AND RELOCATE (E) BIKE RACK
- REMOVE (E) BENCH

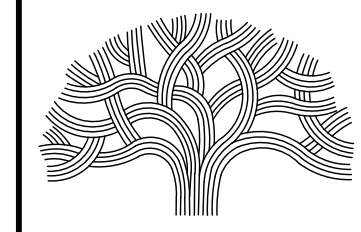


CORING DATA			
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CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

DEMOLITION PLAN  
3 OF 6

PROJECT NO.  
**1004836**

SCALE:  
1" = 20'  
DATE:  
10/25/2023

SHEET NO.  
**D-1.3**  
16 OF 58

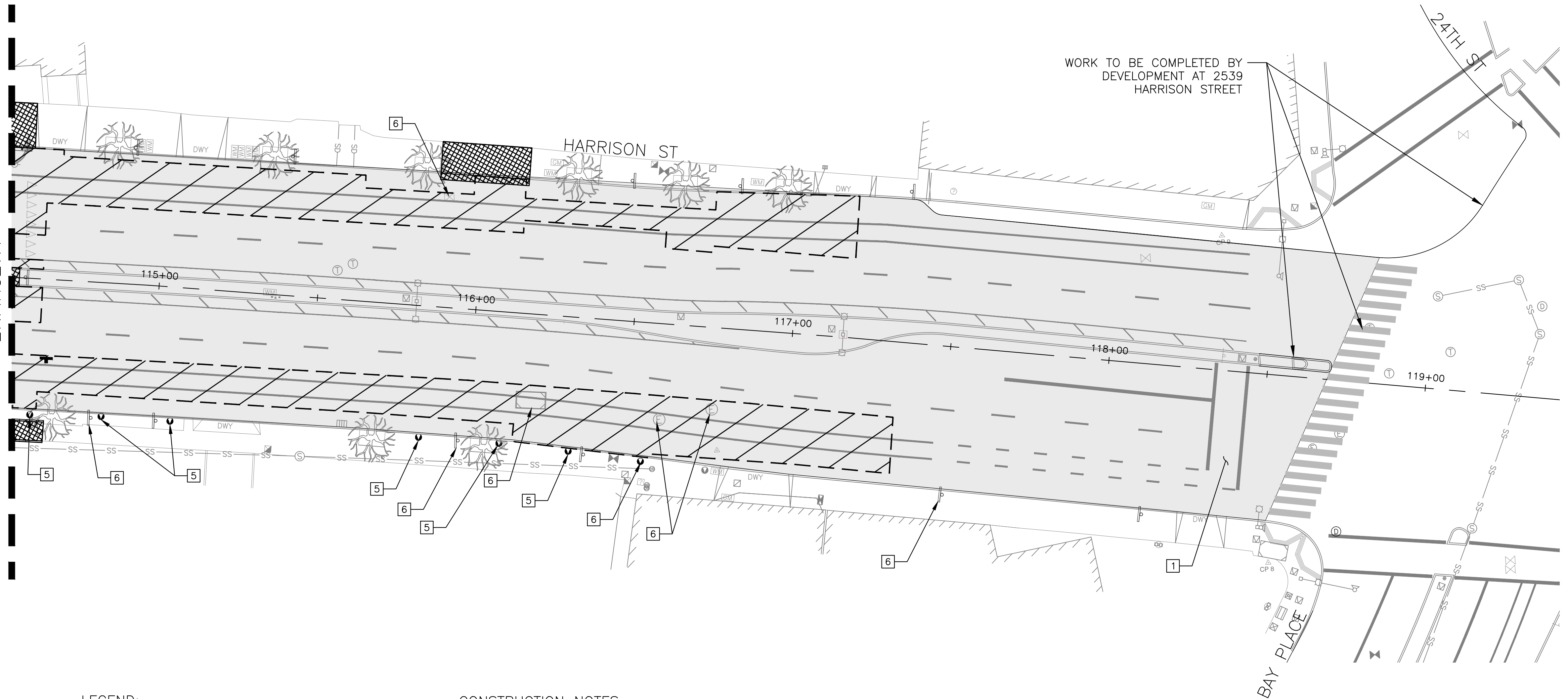
DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CDT, ACTIVE/1004836 - Lakeside Family Streets (S)2, DESIGN/0, CAD/2, SHEET/D-1.3.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang99



**GENERAL NOTES:**

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SEE SHEET D-1.3  
MATCHLINE



**LEGEND:**

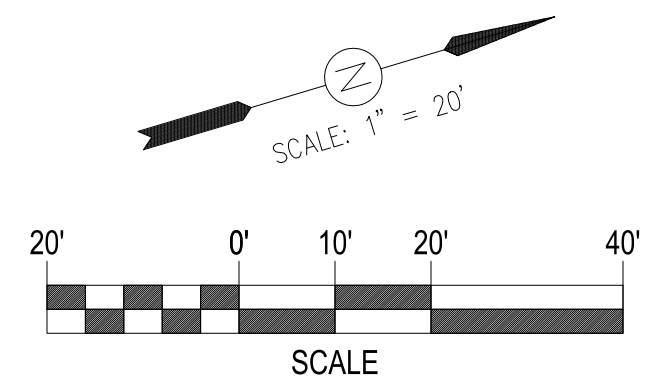
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- REMOVE (E) CONCRETE PANEL
- REMOVE (E) LANDSCAPING
- LIMIT OF REMOVING (E) PAVEMENT MARKINGS AND/OR STRIPING

**CONSTRUCTION NOTES:**

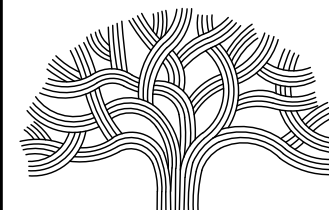
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CORING DATA			
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LAKESIDE FAMILY STREETS



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**CONSTRUCTION PLANS:**

DEMOLITION PLAN  
4 OF 6

PROJECT NO.

**1004836**


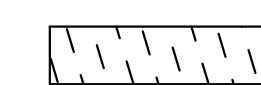
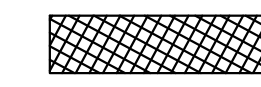
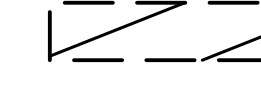


SCALE:  
1" = 20'  
DATE:  
10/25/2023

SHEET NO.  
**D-1.4**  
17 OF 58

**GENERAL NOTES:**

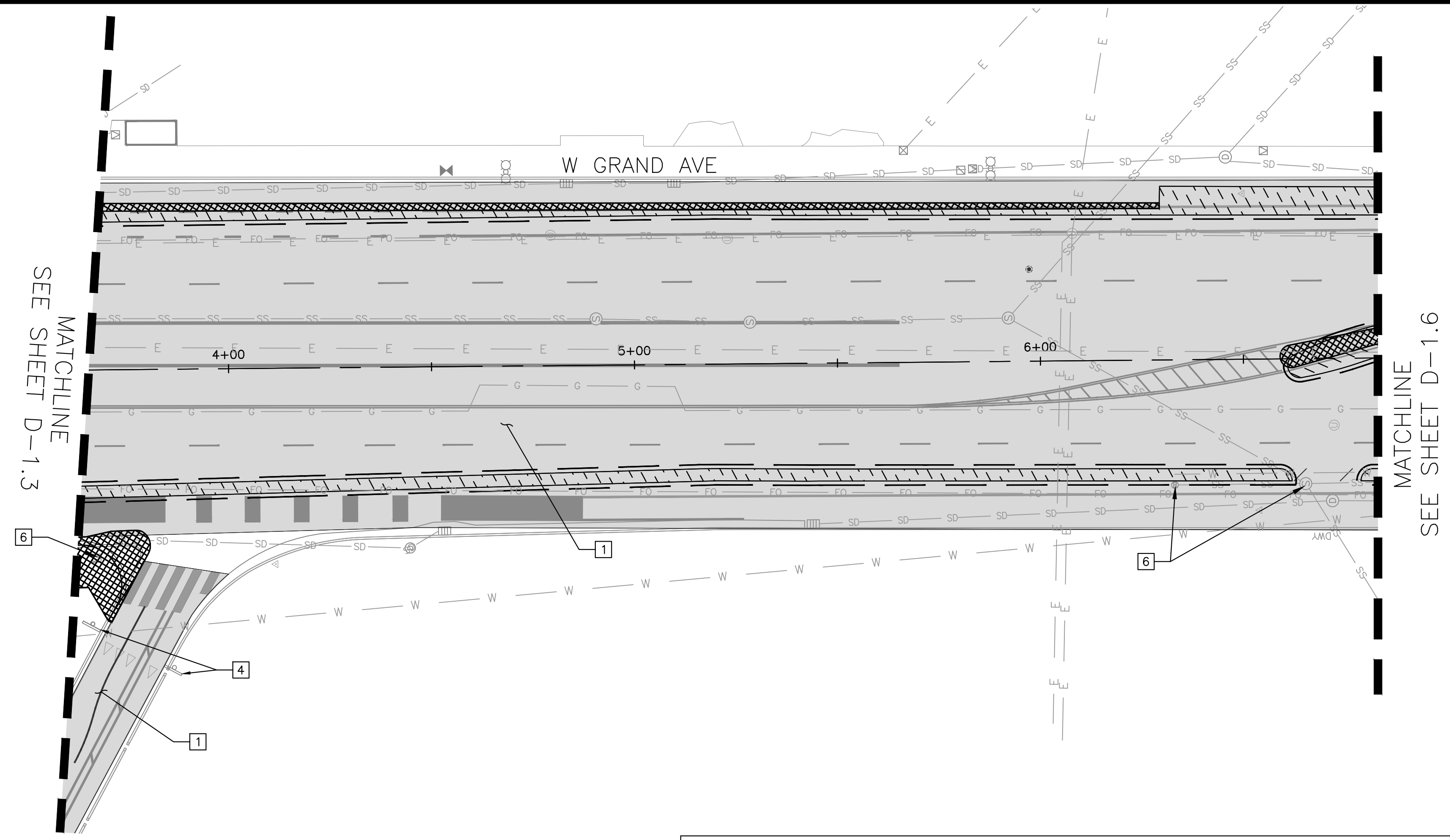
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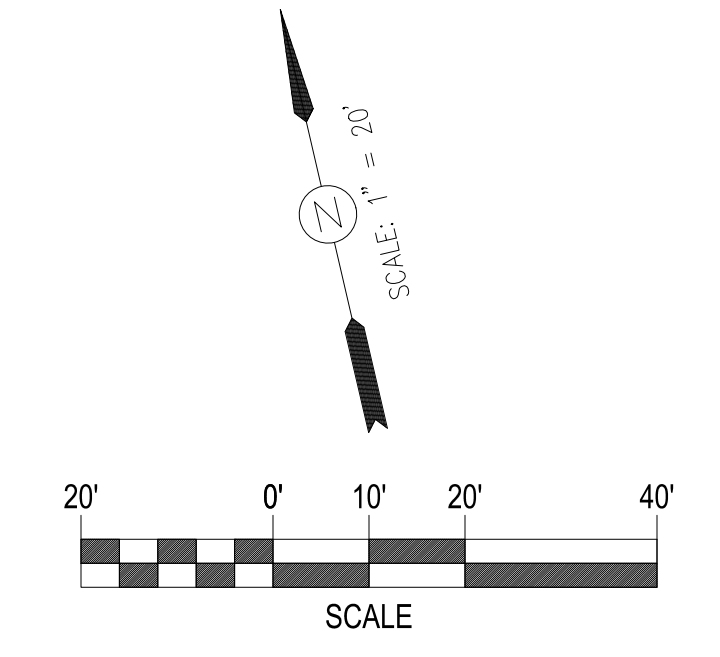
**CONSTRUCTION NOTES:**

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- 4** REMOVE (E) W11-2 & W16-7P SIGNS FROM POST
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- 6** PROTECT (E) FACILITY DURING DEMOLITION
- 7** REMOVE (E) STREET LIGHT

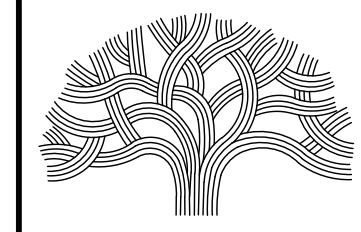


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DRAWN BY	JW				

**CONSTRUCTION PLANS:**

DEMOLITION PLAN  
5 OF 6

PROJECT NO.  
**1004836**

SHEET NO.  
**D-1.5**  
18 OF 58



**GENERAL NOTES:**

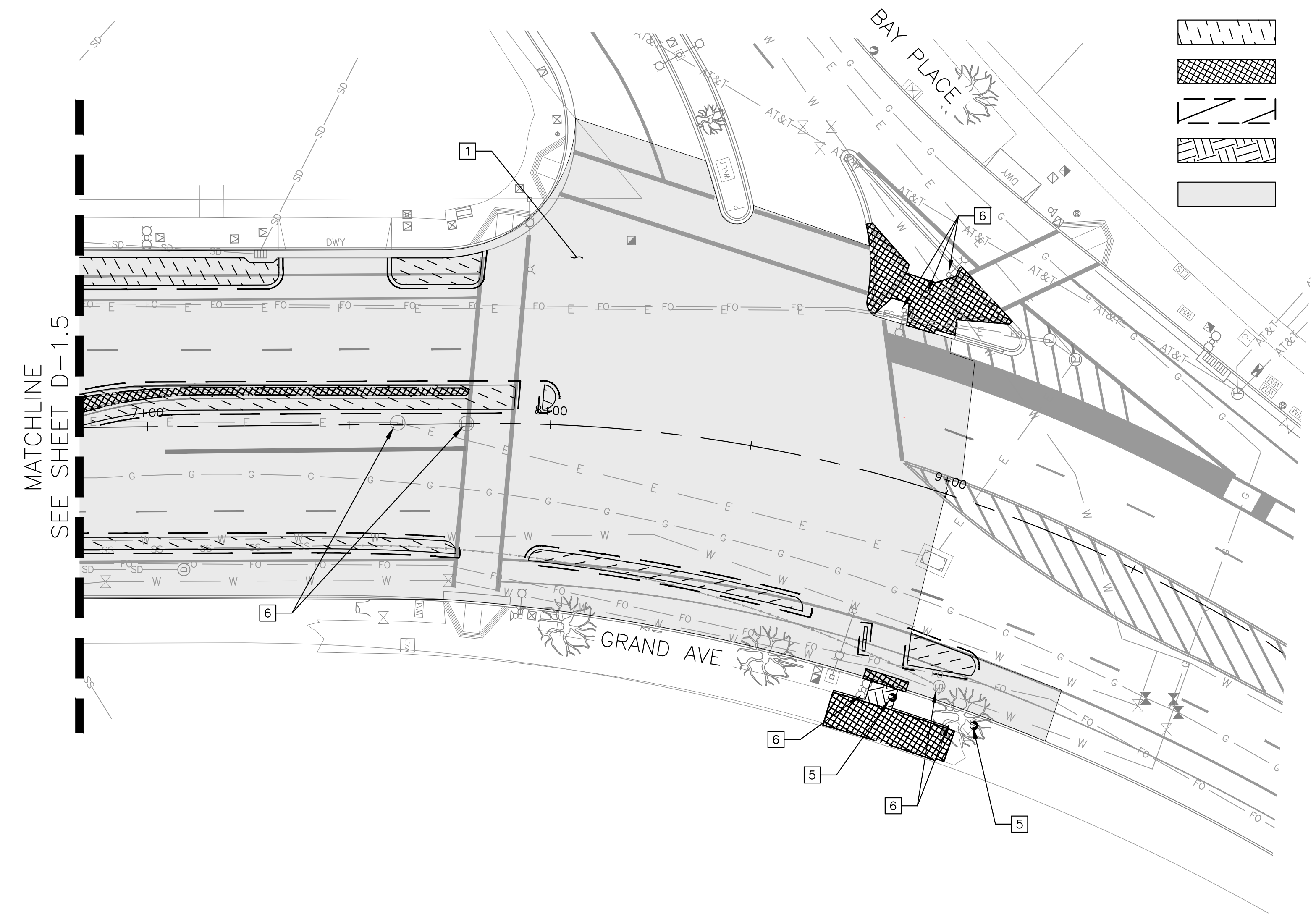
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6. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY DAMAGE CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COST TO THE OWNER.
7. DUST CONTROL SHALL BE IMPLEMENTED DURING ALL DEMOLITION AND GRADING OPERATIONS. PUBLIC STREETS SHALL BE SWEEPED CLEAN AS NECESSARY.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMMUNICATIONS WITH ALL ADJACENT PROPERTY OWNERS FOR WORK TO BE PERFORMED ADJACENT TO THEIR PROPERTIES.
9. WHERE EXISTING CONCRETE OR ASPHALT PAVING WILL BE DEMOLISHED AND ADJACENT CONCRETE OR ASPHALT CONCRETE WILL BE RETAINED, SAWCUT TO ENSURE CLEAN AND NEAT SEPARATION. WHERE PRACTICE, SAWCUT AT EXISTING SCORELINES.
10. A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE CITY SURVEYOR PRIOR TO CONSTRUCTION, AND IN ACCORDANCE TO THE STATE OF CALIFORNIA, BUSINESS AND PROFESSIONAL CODE, SECTION 8771.
11. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA NORTH) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND UTILITIES.
12. ALL EXISTING SURVEY MONUMENTS SHALL BE PRESERVED. ANY MONUMENT DISTURBED WITHOUT THE WRITTEN CONSENT OF THE CITY SURVEYOR MAY INCUR A FINE OF UP TO \$5,000. CONTRACTOR SHALL ARRANGE AND PAY FOR PREVIOUS STRUCTURE REFERENCING AND REPLACEMENT OF ANY MONUMENT WHICH MAY BE DISTURBED BY THEIR WORK. REFER TO SECTION 8771 OF THE B&P CODE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR ADJUSTMENT OF EXISTING UTILITY BOX, VALVE, VAULT, MANHOLE, AND FIRE HYDRANT.
14. SEE ELECTRICAL PLAN SHEETS FOR THE REMOVAL OF TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT.
15. SEE UTILITY PLAN SHEETS FOR THE REMOVAL OF STORM DRAIN FACILITIES.

**LEGEND:**

- SAWCUT LINE
- [Hatched Box] REMOVE FULL DEPTH PAVEMENT SECTION (ROADWAY EXCAVATION)
- [Cross-hatched Box] REMOVE (E) CONCRETE FLATWORK
- [Diagonal Lines] REMOVE (E) CONCRETE PANEL
- [Wavy Lines] REMOVE (E) LANDSCAPING
- [Shaded Box] LIMIT OF REMOVING (E) PAVEMENT MARKINGS AND/OR STRIPING

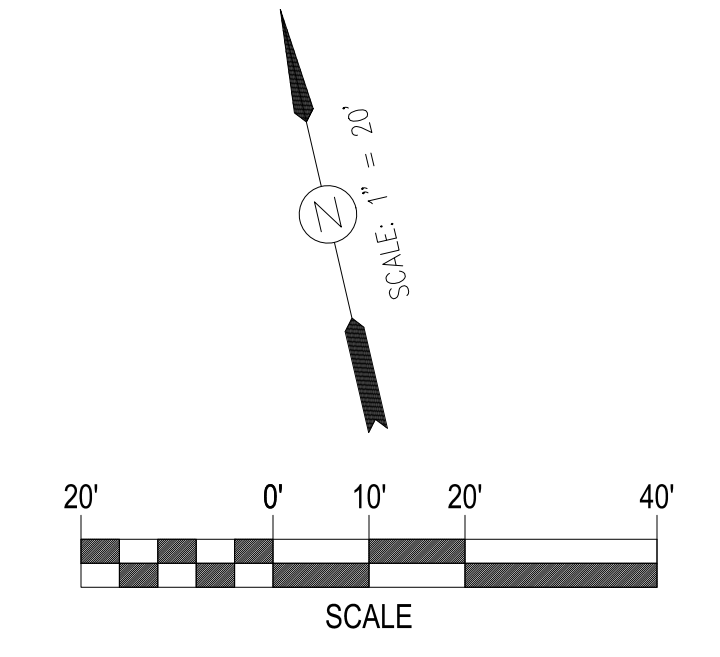
**CONSTRUCTION NOTES:**

- [1] REMOVE (E) TRAFFIC PAVEMENT MARKINGS AND/OR STRIPING
- [2] REMOVE (E) BOLLARD
- [3] REMOVE (E) PURPLE PAVEMENT MARKING
- [4] REMOVE (E) SIGN AND POST
- [5] REMOVE (E) PARKING METER POST. (E) PARKING METER HEAD TO BE REMOVED BY CITY
- [6] PROTECT (E) FACILITY DURING DEMOLITION
- [7] REMOVE (E) STREET LIGHT

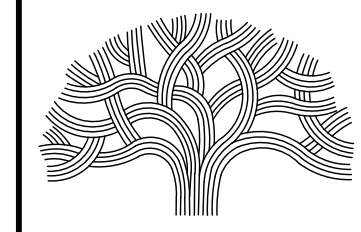


CORING DATA			
DATE	AC DEPTH (in)	PCC DEPTH (in)	LOCATION
N/A	14.5	N/A	180 GRAND AVENUE
12/14/2007	5	6.5	SB LANE - 35' S/O GRAND AVE
12/14/2007	8	7	NB LANE - 90' S/O GRAND AVE
12/11/2008	N/A	8	27TH ST/HARRISON ST - 13.5' N/O FOC

NOTE: CORING DATA ABOVE IS PROVIDED FOR REFERENCE ONLY AND MAY DIFFER FROM FIELD CONDITIONS.



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

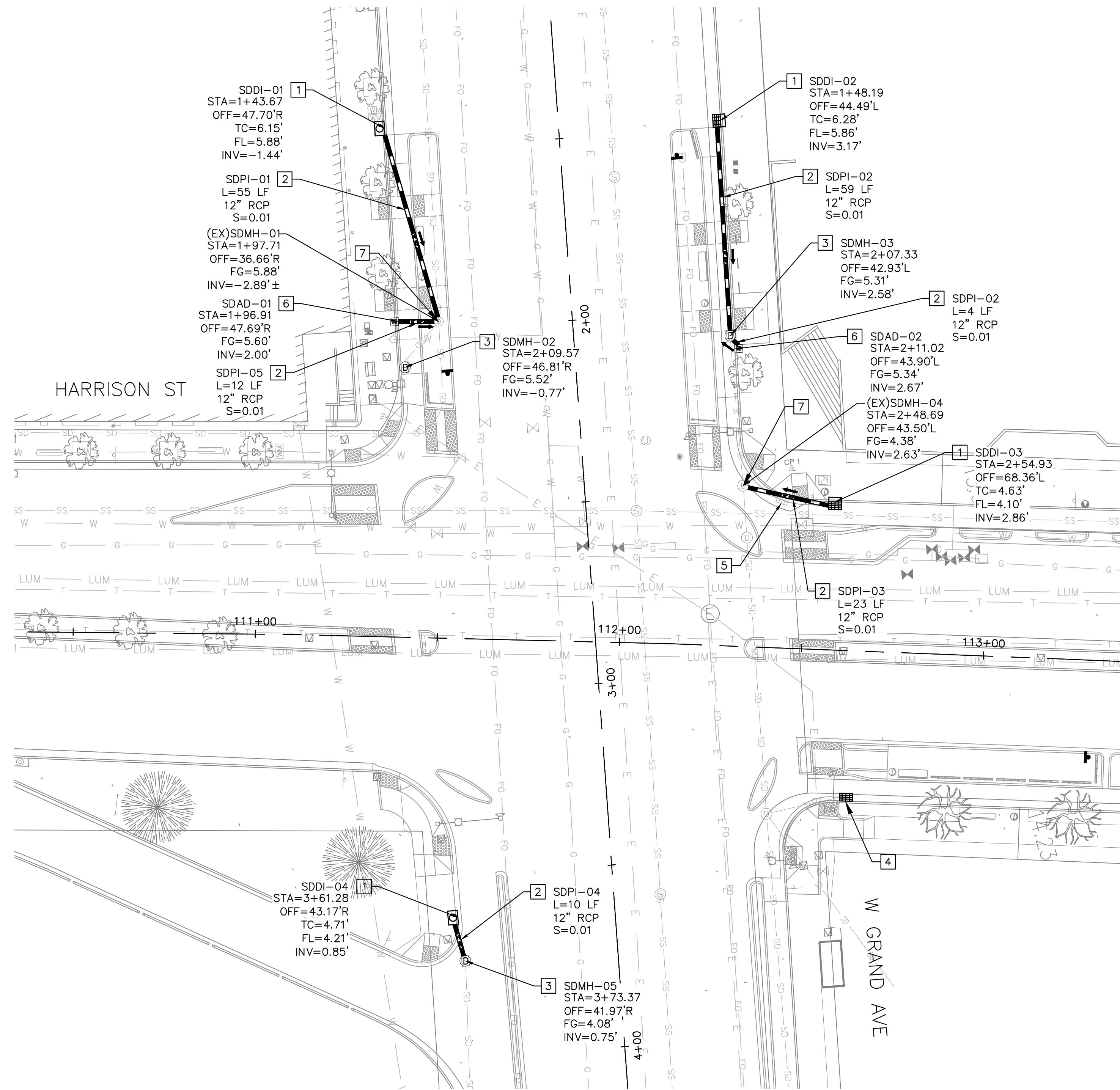
DEMOLITION PLAN  
6 OF 6

PROJECT NO.  
**1004836**

SCALE: AS SHOWN  
DATE: 10/25/2023  
SHEET NO.  
**D-1.6**  
19 OF 58

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CDDT, ACTIVE/1004836 - Lakeside Family Streets (E)12, DESIGN/0, CADD/2, SHEET/D-1.6.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93





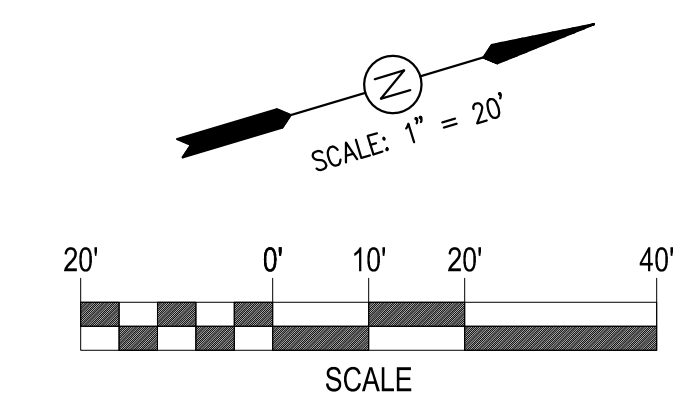
**CONSTRUCTION NOTES:**

- 1 INSTALL TYPE E-3 INLET PER CITY OF OAKLAND STANDARD DETAIL, DWG D-8
- 2 INSTALL STORM DRAIN PIPE AS LISTED PER PLAN
- 3 CONVERT EXISTING STORM DRAIN INLET INTO STORM DRAIN MANHOLE - TYPE 1 PER CITY OF OAKLAND STANDARD DETAIL, DWG D-11
- 4 REMOVE EXISTING STORM DRAIN INLET GRATE AND INSTALL CITY OF OAKLAND TYPE B GRATE
- 5 REMOVE EXISTING STORM DRAIN INLET AND PIPE
- 6 INSTALL 12"x12" AREA DRAIN  $\frac{D}{C-5.3}$
- 7 ADJUST CITY UTILITY FRAME AND COVER TO FINISH GRADE PER APPLICABLE CITY AND STATE STANDARDS.

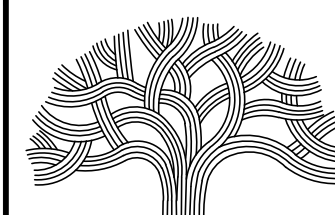
**NOTES:**

- 1. CONTRACTOR SHALL FIELD VERIFY EXACT UTILITY LOCATION.
- 2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (U.S.A.) AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTING U.S.A. DOES NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO DETERMINE LOCATION AND DEPTH OF BURIED UTILITIES.
- 3. PIPE ALIGNMENT AND STATIONS SHOWN FOR PROFILE REFERENCE ONLY.
- 4. NEW STORM DRAIN PIPE SHALL BE RCP CLASS 3.
- 5. CONTRACTOR TO INSTALL TRASH CAPTURE DEVICE ON ALL NEW INLETS WITHIN PROJECT LIMITS PER CITY OF OAKLAND STANDARDS.
- 6. ALL STORM DRAIN INLETS MUST BE LABELED "NO DUMPING-DRAINS TO BAY" USING APPROVED METHODS.
- 7. CONTRACTOR SHALL REFER TO CITY OF OAKLAND STANDARD D-4 FOR TYPE "B" INLETS AND D-8 FOR TYPE E-3 INLETS.
- 8. REMOVAL OF STORM DRAIN INLETS AND PIPES DUE TO NEW STORM DRAIN CONSTRUCTION SHALL BE CONSIDERED AS PART OF THAT WORK.

**A** STORM DRAIN MODIFICATIONS - W GRAND AVE & HARRISON ST  
 U-1.1 SCALE: 1"=20'



LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

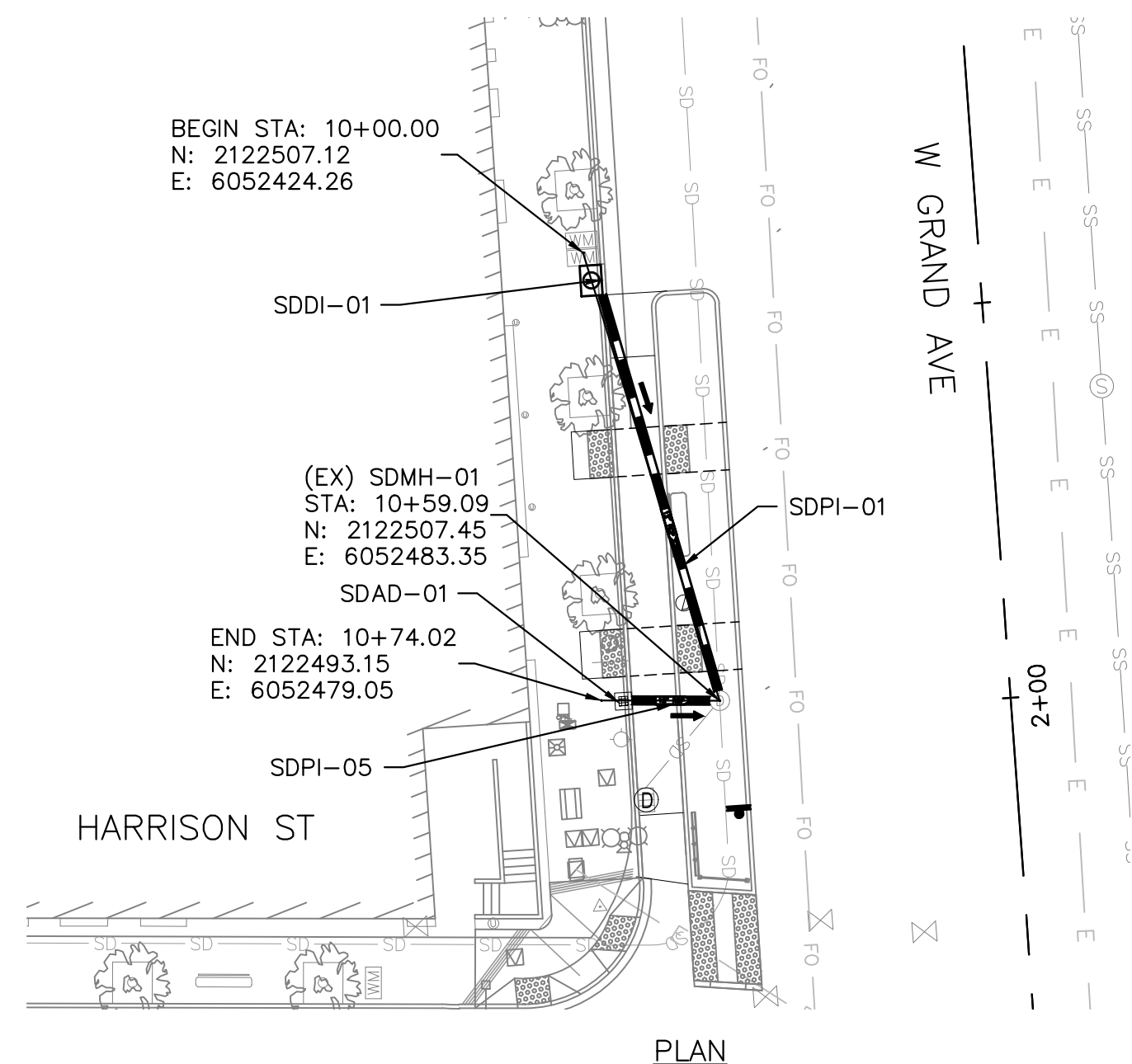
**CONSTRUCTION PLANS:**

UTILITY PLANS  
 SHEET 1 OF 2

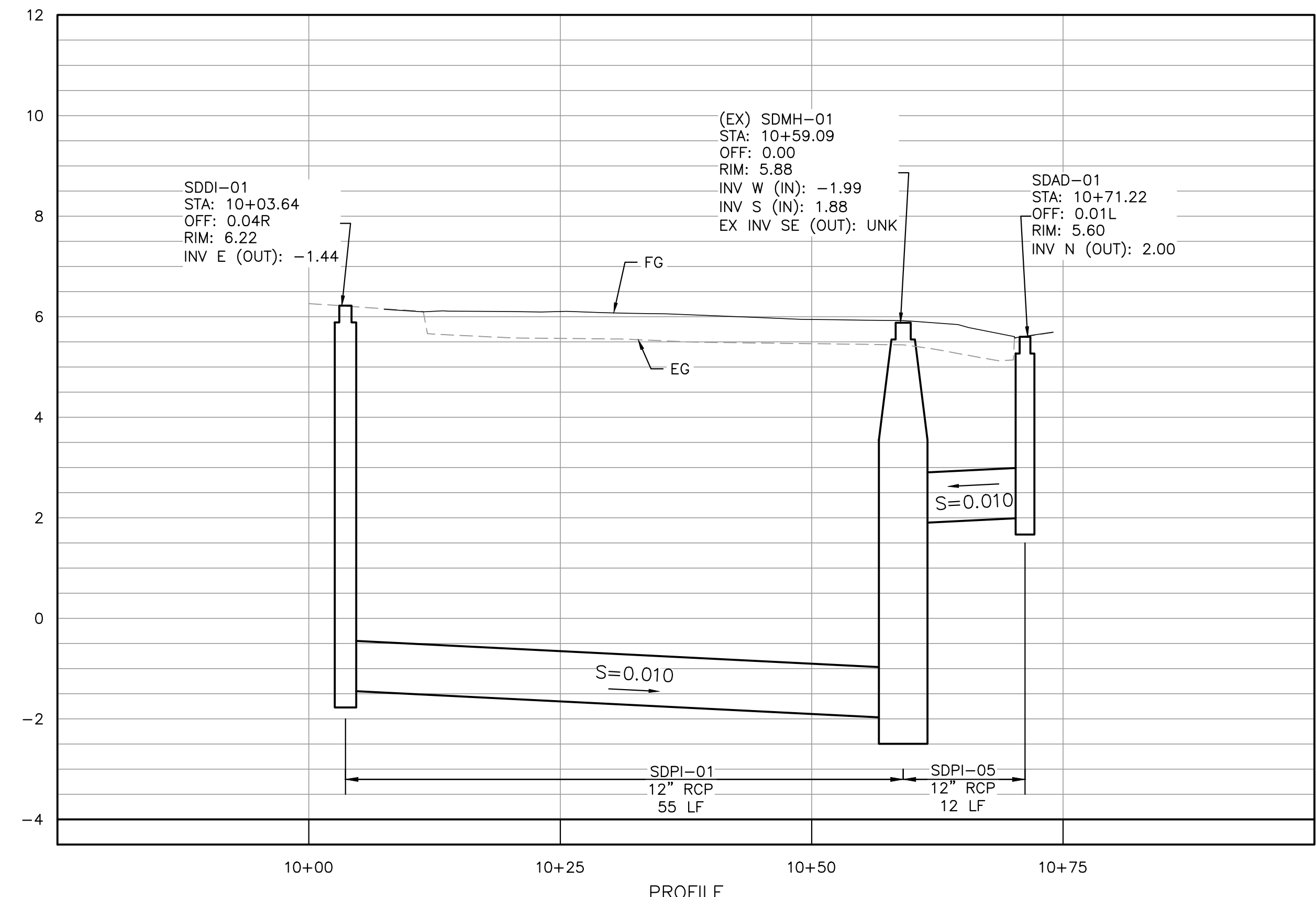
PROJECT NO.  
**1004836**

SHEET NO.  
**U-1.1**  
 20 OF 58



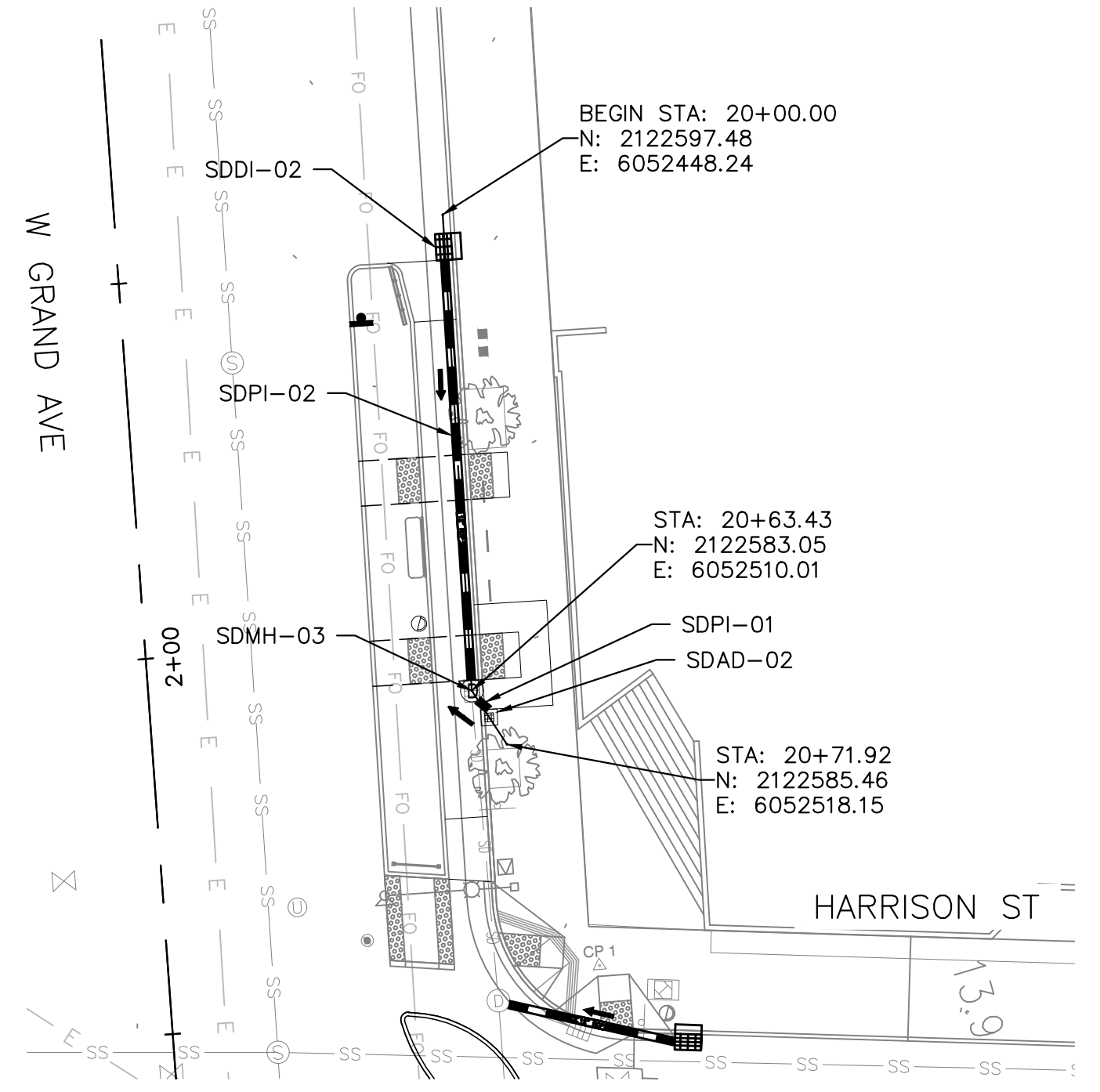


PLAN

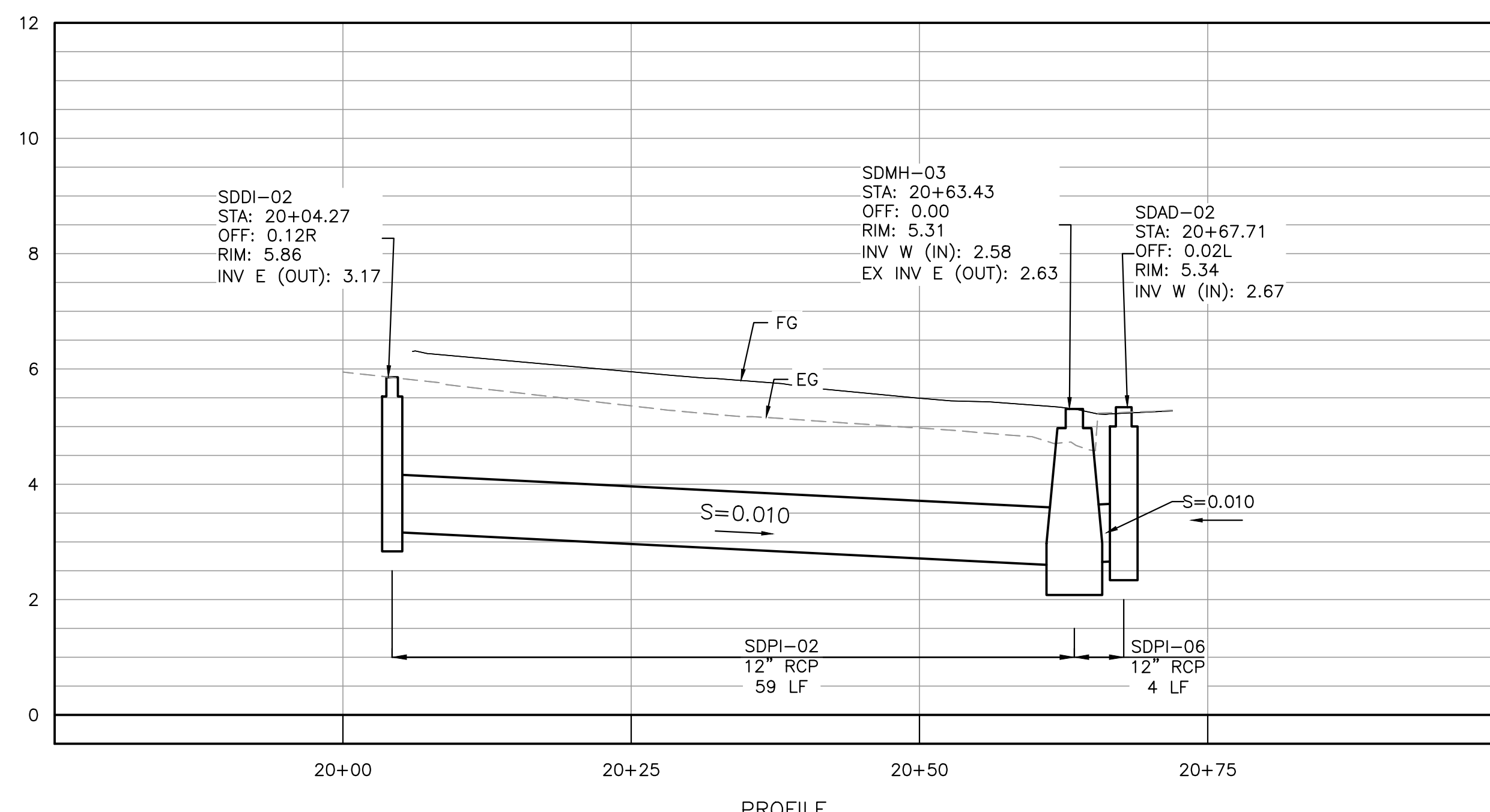


PROFILE

**A** DRAINAGE SYSTEM 1  
 U-1.2 SCALE: H: 1"=10' V: 1"=2'

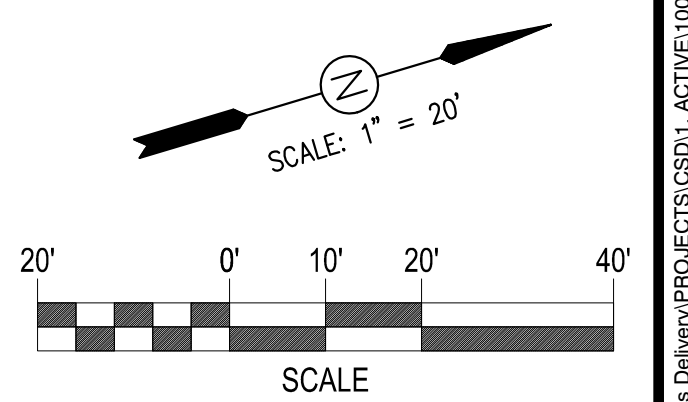


PLAN

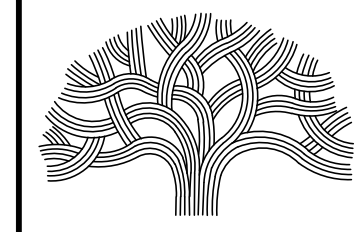


PROFILE

**B** DRAINAGE SYSTEM 2  
 U-1.2 SCALE: H: 1"=10' V: 1"=2'



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY	SL/SK			
DESIGNED BY	SK/DA			
DRAWN BY	DA			

CONSTRUCTION PLANS:

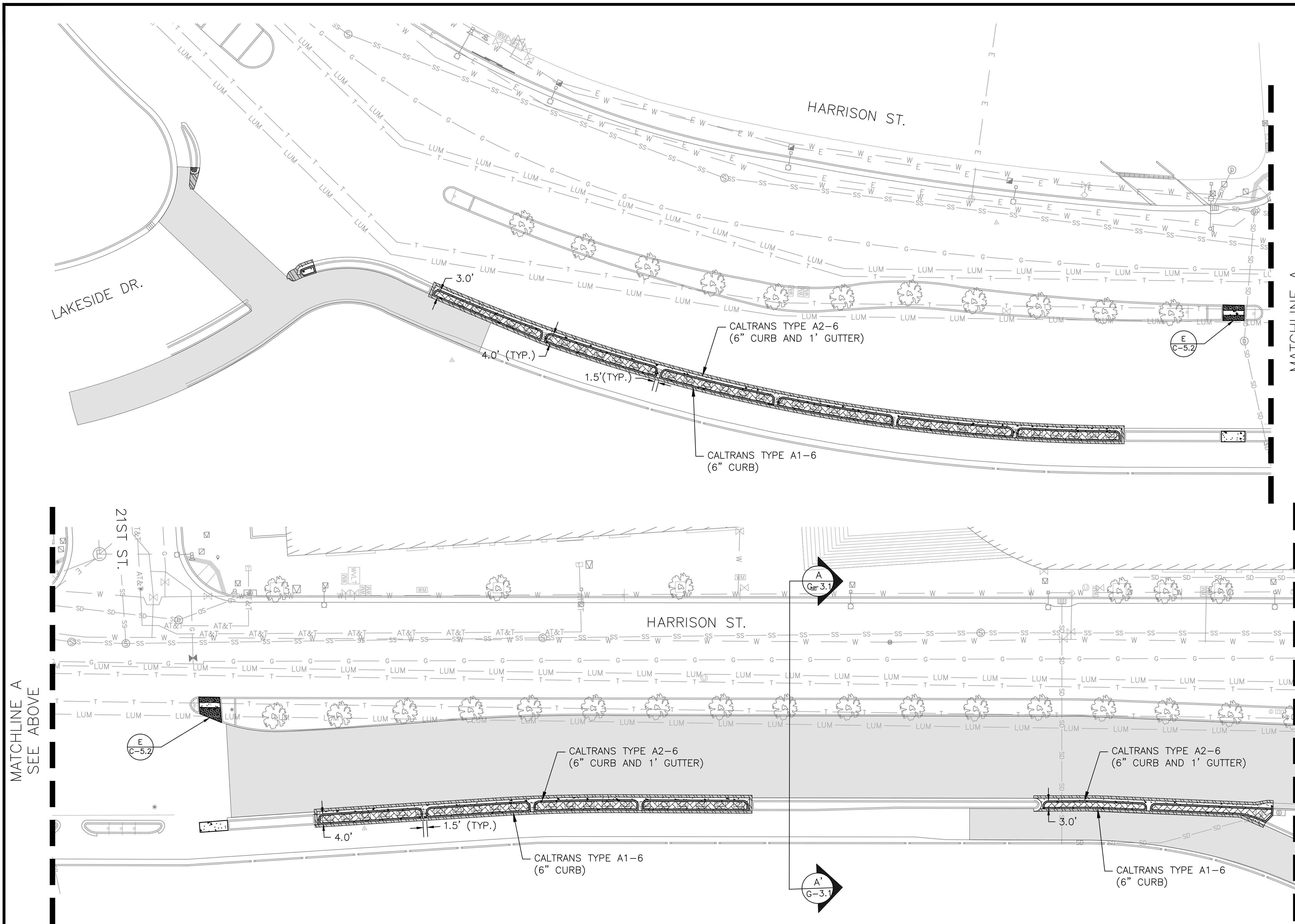
UTILITY PLANS  
 SHEET 2 OF 2

PROJECT NO.  
**1004836**

SHEET NO.  
**U-1.2**  
 21 OF 58

DRAWING NAME: \\lakeland\cadd\Great Streets Delivery\PROJECTS\CSDT\_ACTIVE\1004836 - Lakeside Family Streets (S)2 - DESIGN\0 - CADD\_Sheets\U-1.2.dwg  
 PLOT DATE: 11/13/23  
 PLOTTED BY: wang93

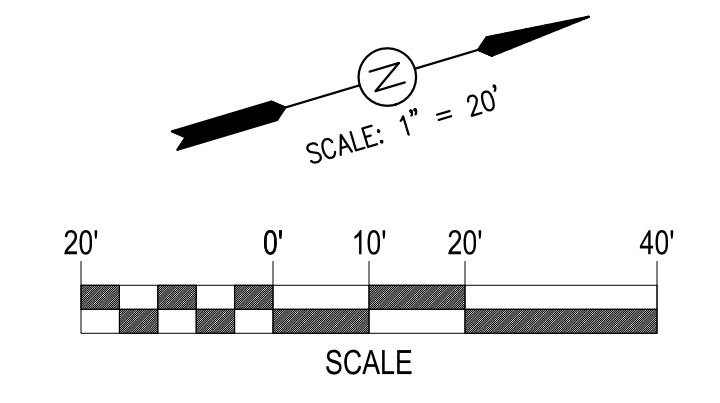




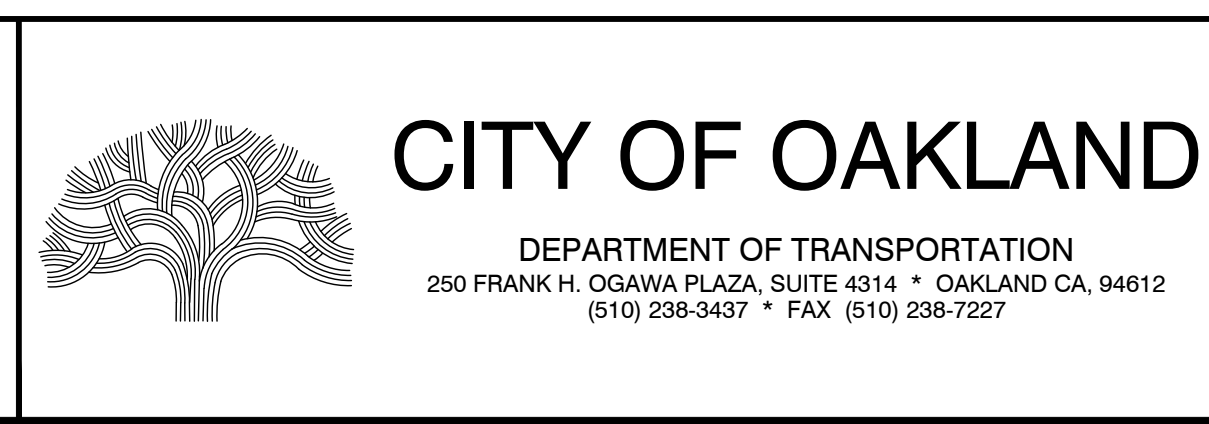
- GENERAL NOTES:**
- SEE SHEET G-1.2 FOR ROADWAY ALIGNMENT DATA.
  - SEE TRAFFIC (T) SHEETS FOR SIGNING AND STRIPING.
  - SEE CURB RAMP (C-4.X) SHEETS FOR MODIFIED CURB RAMP DETAILS.
  - SEE BUS BOARDING ISLAND (C-3.X) SHEETS FOR ISLAND DETAILS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.
  - SEE GRADING SHEETS FOR POINT DATA AND CURVE TABLES.
  - SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS.
  - CONTRACTOR SHALL REMOVE ALL (E) PAVEMENT STRIPING AND MARKINGS AND REMOVE AND REPLACE (E) OR INSTALL NEW SIGNAGE PER THE STRIPING AND SIGNING PLANS. ALL (E) PAVEMENT STRIPING AND MARKINGS TO BE REMOVED PRIOR TO THE SLURRY SEAL.
  - PROTECT ALL UTILITY FACILITIES OUTSIDE OF IMMEDIATE IMPROVEMENT AREAS; CONTRACTOR TO CONFIRM NUMBER OF UTILITY COVERS WITH RESIDENT ENGINEER BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

- CONSTRUCTION NOTES:**
- ADJUST CITY UTILITY FRAME AND COVER, UTILITY VAULT, VALVE BOX, OR MONUMENT CASING TO FINISH GRADE PER APPLICABLE CITY AND STATE STANDARDS.
  - UTILITY COVER ADJUSTMENT, BY GRADE ONLY (BY OTHERS).

- LEGEND:**
- 12" AC PLUG
  - CONCRETE FLATWORK
  - PCC PAVEMENT
  - STAMPED CONCRETE
  - SLURRY SEAL



**LAKESIDE FAMILY STREETS**



CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**  
CIVIL LAYOUT PLANS  
1 OF 4

PROJECT NO.  
**1004836**

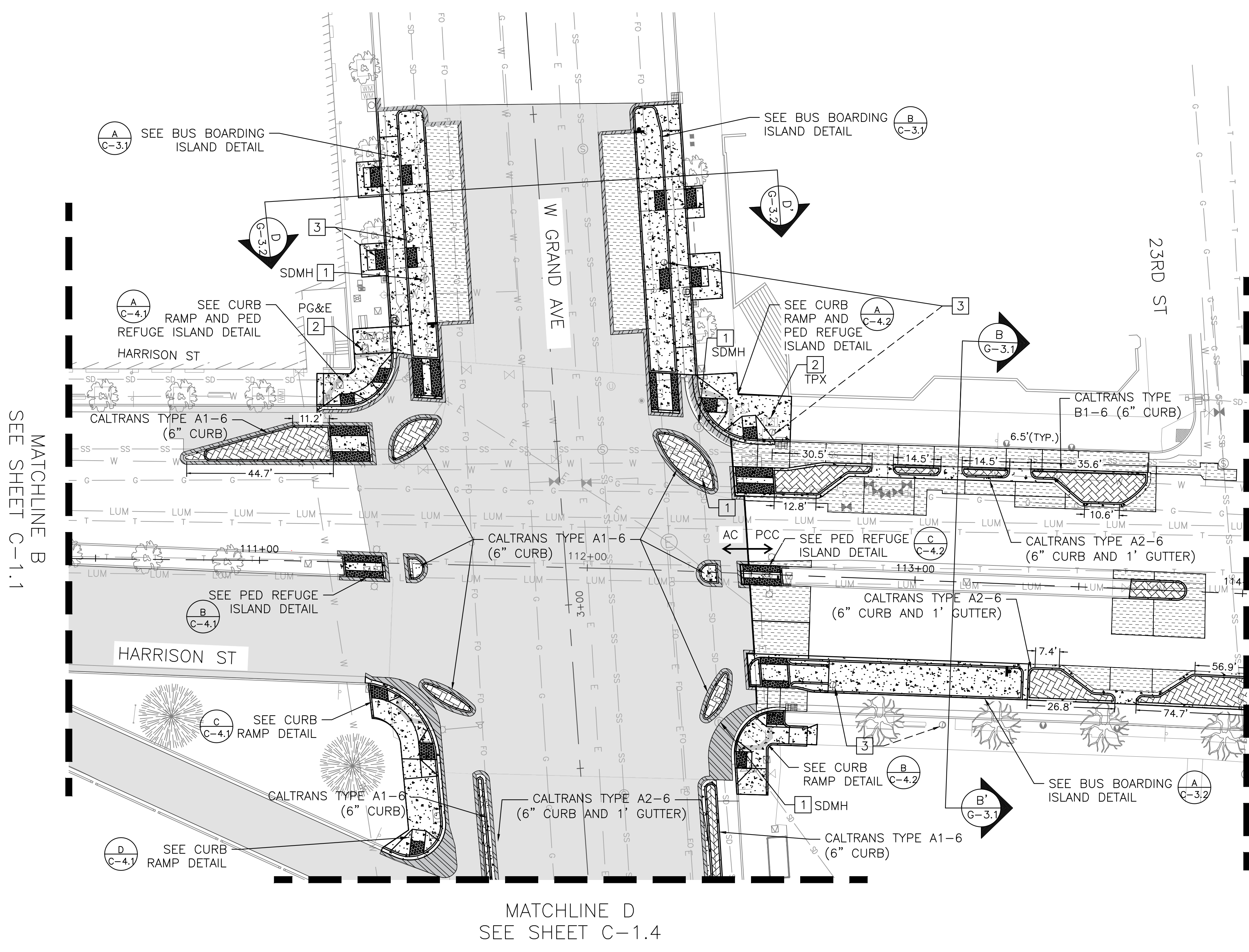
SCALE:  
1" = 20'

DATE:  
10/25/2023

SHEET NO.  
**C-1.1**  
22 OF 58

DRAWING NAME: Lakeside/Great Streets Delivery PROJECTS/CDOT, ACTIVE/1004836 - Lakeside Family Streets (E)2, DESIGN/0, CAD/2, SHEET/C-1.1.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang99

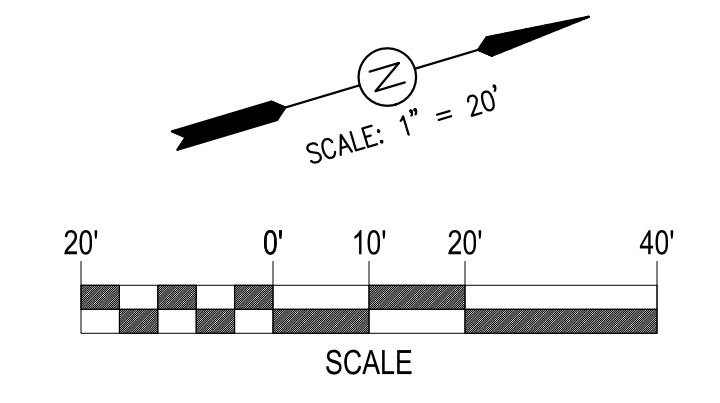




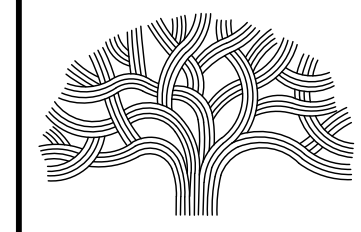
- GENERAL NOTES:**
- SEE SHEET G-1.2 FOR ROADWAY ALIGNMENT DATA.
  - SEE TRAFFIC (T) SHEETS FOR SIGNING AND STRIPING.
  - SEE CURB RAMP (C-4.X) SHEETS FOR MODIFIED CURB RAMP DETAILS.
  - SEE BUS BOARDING ISLAND (C-3.X) SHEETS FOR ISLAND DETAILS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.
  - SEE GRADING SHEETS FOR POINT DATA AND CURVE TABLES.
  - SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS.
  - CONTRACTOR SHALL REMOVE ALL (E) PAVEMENT STRIPING AND MARKINGS AND REMOVE AND REPLACE (E) OR INSTALL NEW SIGNAGE PER THE STRIPING AND SIGNING PLANS. ALL (E) PAVEMENT STRIPING AND MARKINGS TO BE REMOVED PRIOR TO THE SLURRY SEAL.
  - PROTECT ALL UTILITY FACILITIES OUTSIDE OF IMMEDIATE IMPROVEMENT AREAS; CONTRACTOR TO CONFIRM NUMBER OF UTILITY COVERS WITH RESIDENT ENGINEER BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

- CONSTRUCTION NOTES:**
- ADJUST CITY UTILITY FRAME AND COVER, UTILITY VAULT, VALVE BOX, OR MONUMENT CASING TO FINISH GRADE PER APPLICABLE CITY AND STATE STANDARDS.
  - UTILITY COVER ADJUSTMENT, BY GRADE ONLY (BY OTHERS).
  - RELOCATE TRASH RECEPTACLE

- LEGEND:**
- 12" AC PLUG
  - CONCRETE FLATWORK
  - PCC PAVEMENT
  - STAMPED CONCRETE
  - SLURRY SEAL



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

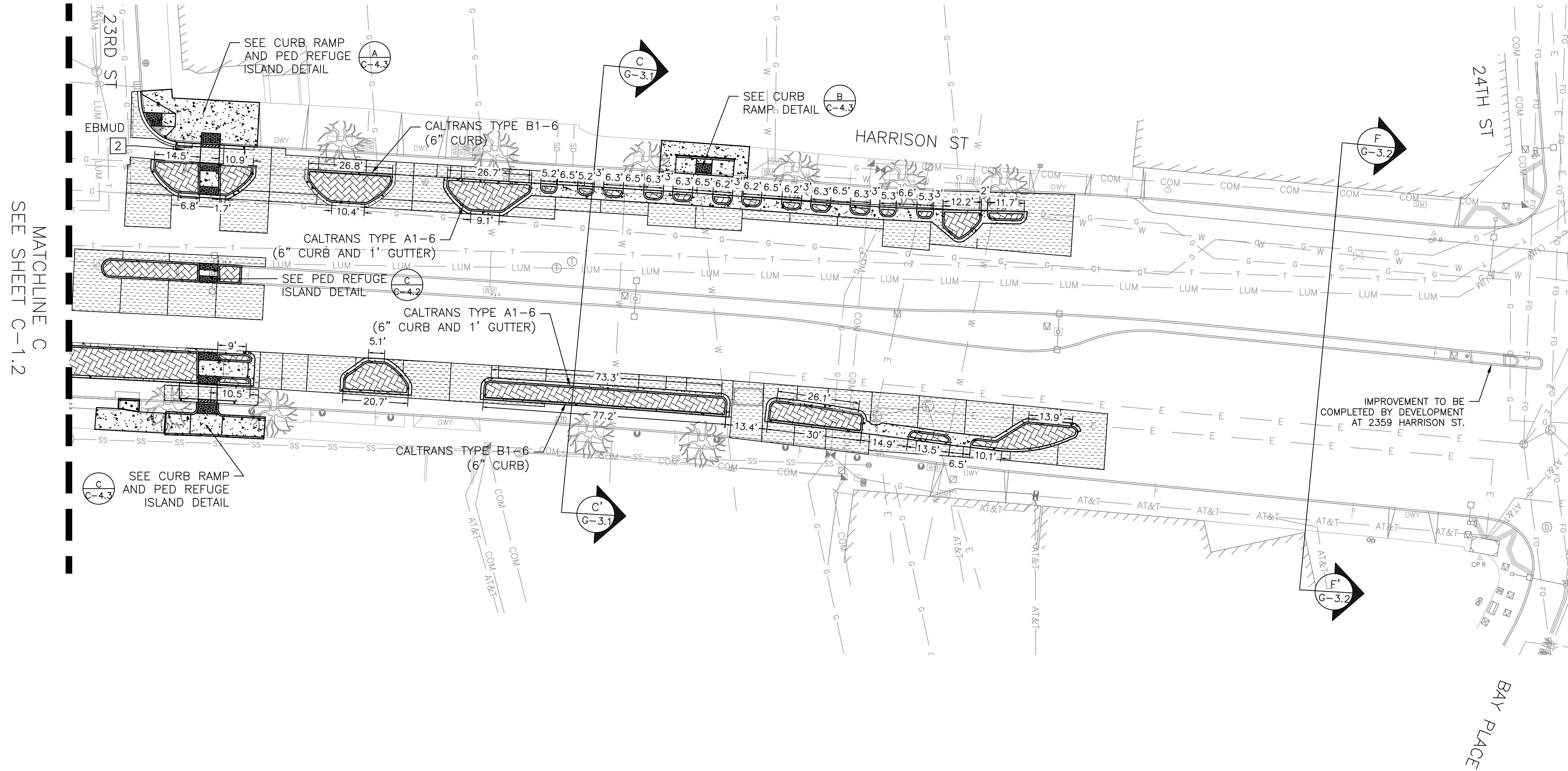
CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**  
  
CIVIL LAYOUT PLANS  
2 OF 4

PROJECT NO. <b>1004836</b>	
SCALE: 1" = 20'	SHEET NO. <b>C-1.2</b>
DATE: 10/25/2023	<b>23</b> OF <b>58</b>

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CSDT, ACTIVE/1004836 - Lakeside Family Streets (S)12, DESIGN/0, CADD/2, SHEET/C-1.2.dwg  
PLOT DATE: 11/09/23  
PLOTTED BY: wang99

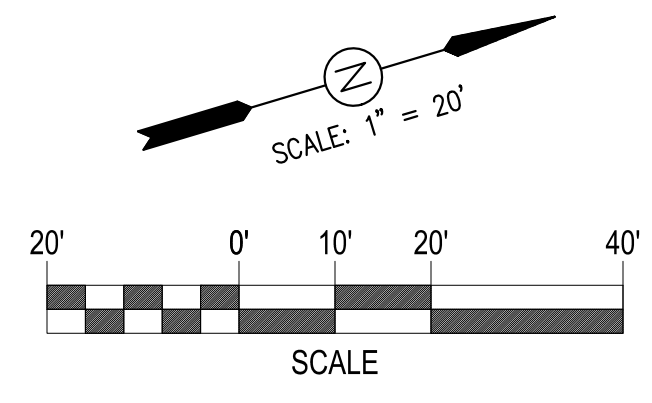




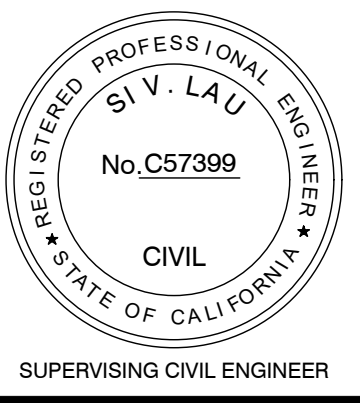
- GENERAL NOTES:**
- SEE SHEET G-1.2 FOR ROADWAY ALIGNMENT DATA.
  - SEE TRAFFIC (T) SHEETS FOR SIGNING AND STRIPING.
  - SEE CURB RAMP (C-4.X) SHEETS FOR MODIFIED CURB RAMP DETAILS.
  - SEE BUS BOARDING ISLAND (C-3.X) SHEETS FOR ISLAND DETAILS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.
  - SEE GRADING SHEETS FOR POINT DATA AND CURVE TABLES.
  - SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS.
  - CONTRACTOR SHALL REMOVE ALL (E) PAVEMENT STRIPING AND MARKINGS AND REMOVE AND REPLACE (E) OR INSTALL NEW SIGNAGE PER THE STRIPING AND SIGNING PLANS. ALL (E) PAVEMENT STRIPING AND MARKINGS TO BE REMOVED PRIOR TO THE SLURRY SEAL.
  - PROTECT ALL UTILITY FACILITIES OUTSIDE OF IMMEDIATE IMPROVEMENT AREAS; CONTRACTOR TO CONFIRM NUMBER OF UTILITY COVERS WITH RESIDENT ENGINEER BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

- CONSTRUCTION NOTES:**
- ADJUST CITY UTILITY FRAME AND COVER, UTILITY VAULT, VALVE BOX, OR MONUMENT CASING TO FINISH GRADE PER APPLICABLE CITY AND STATE STANDARDS.
  - UTILITY COVER ADJUSTMENT, BY GRADE ONLY (BY OTHERS).

- LEGEND:**
- 12" AC PLUG
  - CONCRETE FLATWORK
  - PCC PAVEMENT
  - STAMPED CONCRETE
  - SLURRY SEAL
  - MATCH (E) LANDSCAPING



MATCHLINE C  
SEE SHEET C-1.2



**LAKESIDE FAMILY STREETS**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**  
CIVIL LAYOUT PLANS  
3 OF 4

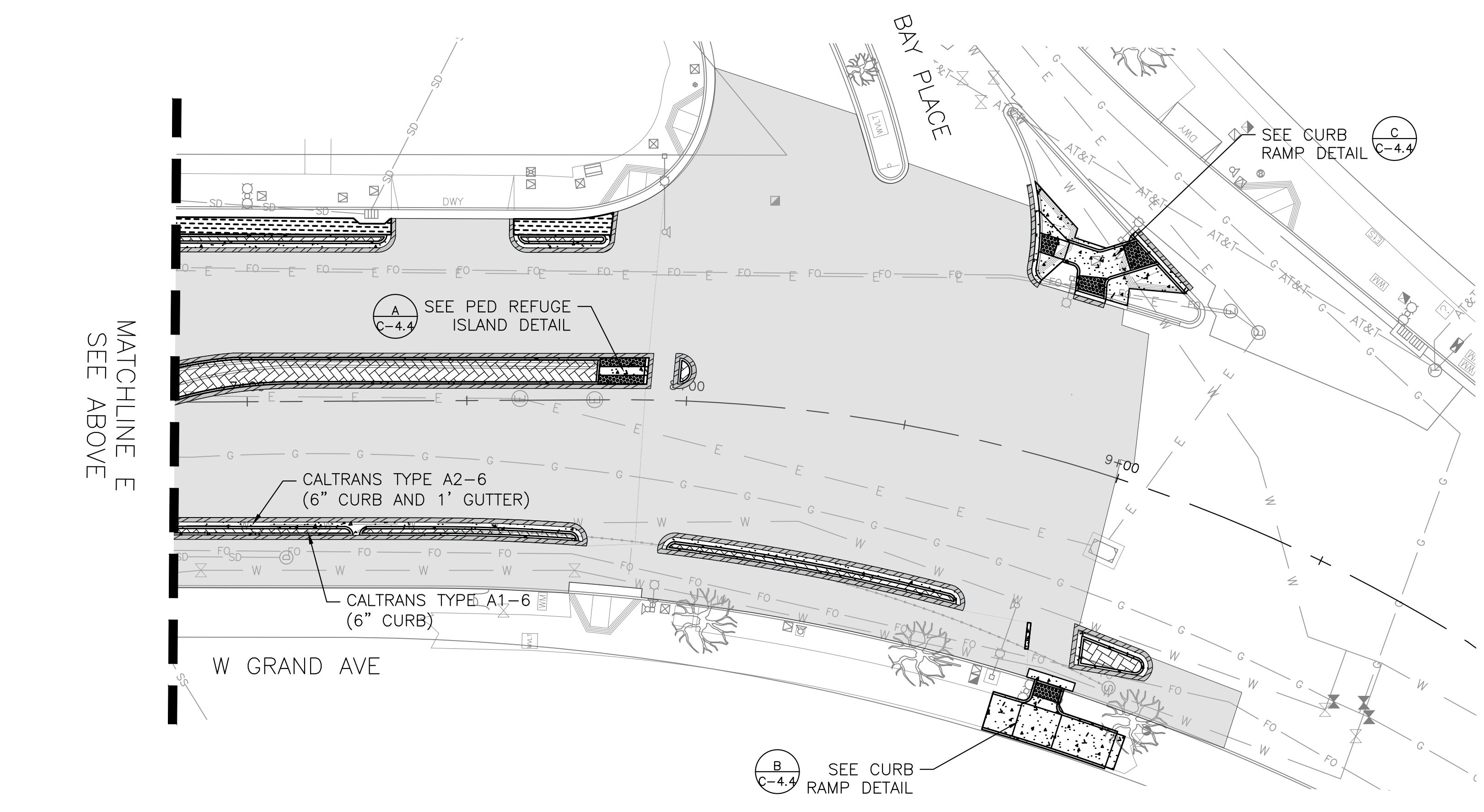
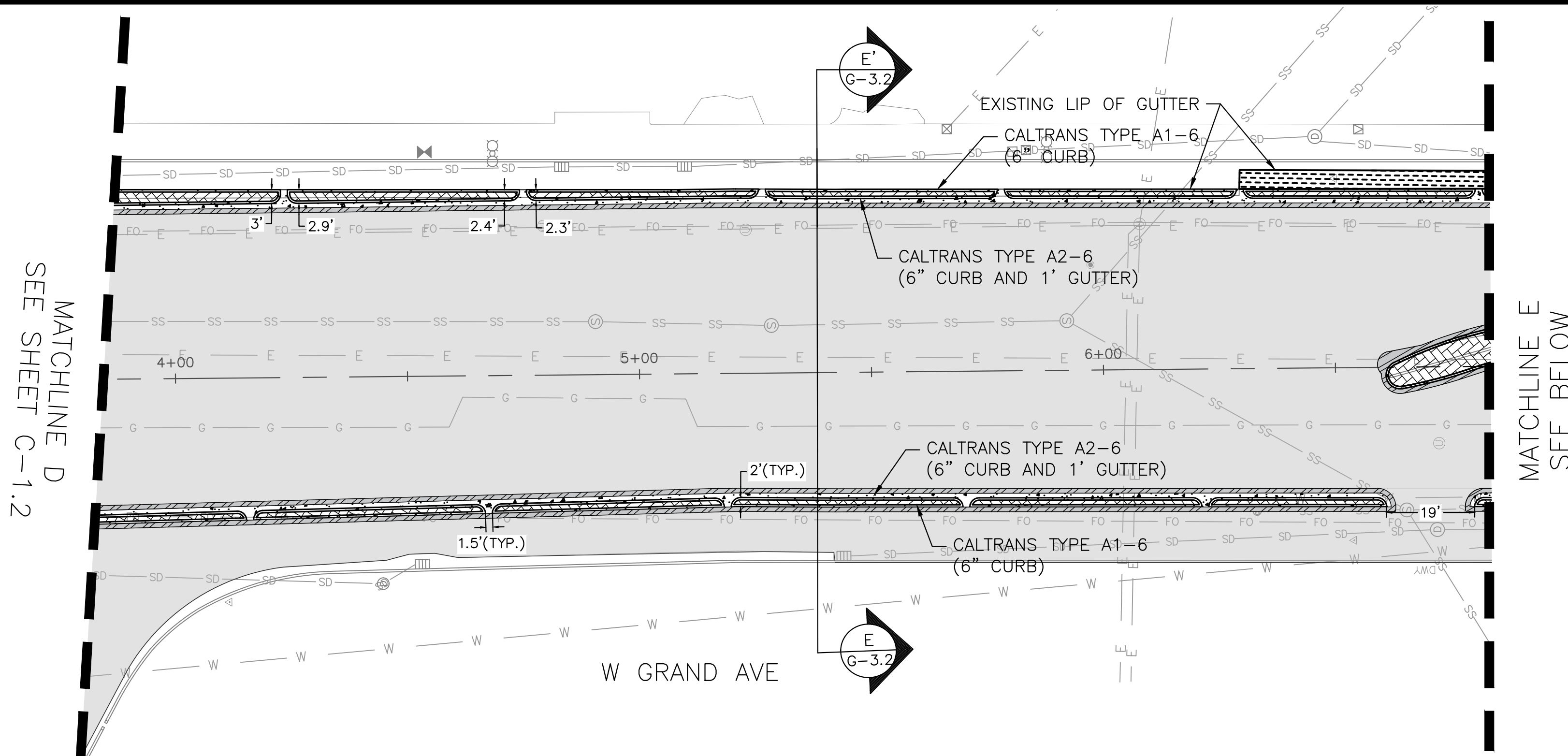
PROJECT NO.  
**1004836**

SHEET NO.  
**C-1.3**  
24 OF 58

SCALE:  
1" = 20'  
DATE:  
10/25/2023

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CSD1, ACTIVE/1004836 - Lakeside Family Streets (S)2, DESIGN/0, CADD, SHEET C-1.3.dwg  
PLOT DATE: 11/09/23  
PLOT BY: wang93





- GENERAL NOTES:**
- SEE SHEET G-1.2 FOR ROADWAY ALIGNMENT DATA.
  - SEE TRAFFIC (T) SHEETS FOR SIGNING AND STRIPING.
  - SEE CURB RAMP (C-4.X) SHEETS FOR MODIFIED CURB RAMP DETAILS.
  - SEE BUS BOARDING ISLAND (C-3.X) SHEETS FOR ISLAND DETAILS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.
  - SEE GRADING SHEETS FOR POINT DATA AND CURVE TABLES.
  - SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS.
  - CONTRACTOR SHALL REMOVE ALL (E) PAVEMENT STRIPING AND MARKINGS AND REMOVE AND REPLACE (E) OR INSTALL NEW SIGNAGE PER THE STRIPING AND SIGNING PLANS. ALL (E) PAVEMENT STRIPING AND MARKINGS TO BE REMOVED PRIOR TO THE SLURRY SEAL.
  - PROTECT ALL UTILITY FACILITIES OUTSIDE OF IMMEDIATE IMPROVEMENT AREAS; CONTRACTOR TO CONFIRM NUMBER OF UTILITY COVERS WITH RESIDENT ENGINEER BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

- CONSTRUCTION NOTES:**
- ADJUST CITY UTILITY FRAME AND COVER, UTILITY VAULT, VALVE BOX, OR MONUMENT CASING TO FINISH GRADE PER APPLICABLE CITY AND STATE STANDARDS.
  - UTILITY COVER ADJUSTMENT, BY GRADE ONLY (BY OTHERS).

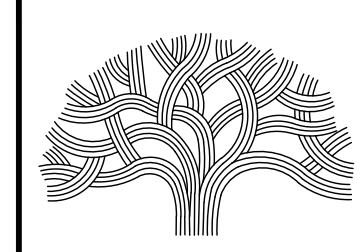
**LEGEND:**

- 12" AC PLUG
- CONCRETE FLATWORK
- PCC PAVEMENT
- STAMPED CONCRETE
- SLURRY SEAL

SCALE: 1" = 20'



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**  
CIVIL LAYOUT PLANS  
4 OF 4

PROJECT NO.  
**1004836**

SHEET NO.  
**C-1.4**

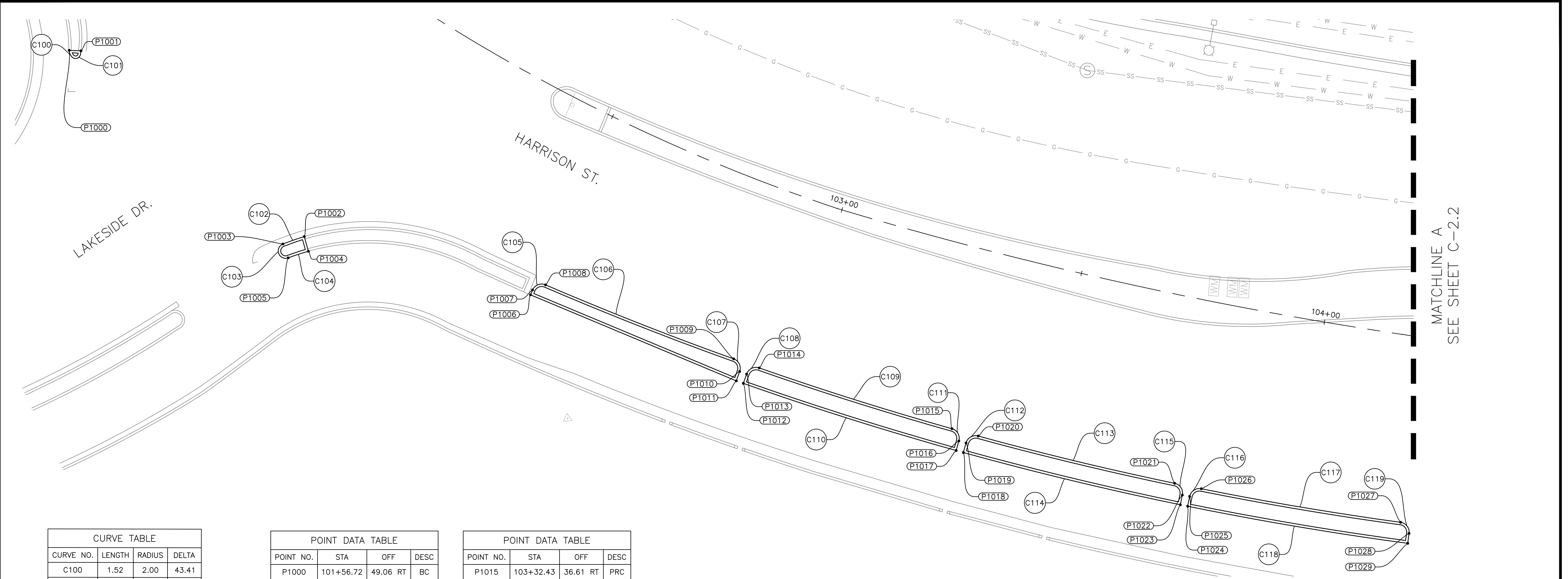
SCALE:  
1" = 20'

DATE:  
10/25/2023

25 OF 58

DRAWING NAME: Lakeside/Family Streets Delivery PROJECTS/CSD/1. ACTIVE/1004836 - Lakeside Family Streets (S)12. DESIGN/0. CAD/2. SHEET/C-1.4.dwg  
PLOT DATE: 11/09/23  
PLOTTED BY: wang93





MATCHLINE A  
SEE SHEET C-2.2

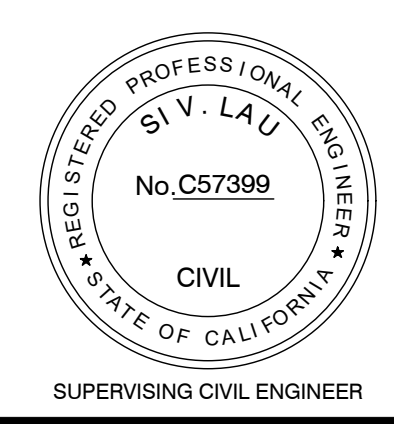
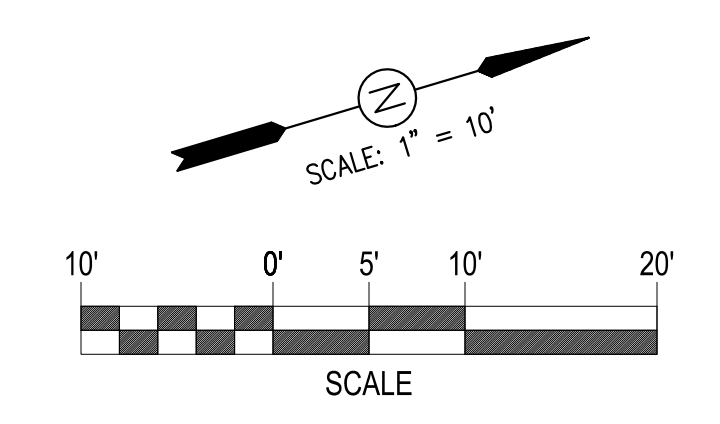
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CURVE NO.	LENGTH	RADIUS	DELTA
C100	1.52	2.00	43.41
C101	2.16	1.00	123.80
C102	4.56	58.31	4.48
C103	4.66	1.49	178.90
C104	4.28	51.55	4.76
C105	3.10	2.00	88.82
C106	40.78	668.06	3.50
C107	3.12	2.00	89.38
C108	3.15	2.00	90.12
C109	40.78	667.90	3.50
C110	45.04	671.90	3.84
C111	3.14	2.00	89.84
C112	3.13	2.00	89.69
C113	40.78	667.90	3.50
C114	45.04	671.90	3.84
C115	3.14	2.00	89.84
C116	3.13	2.00	89.69
C117	40.78	667.90	3.50
C118	45.04	671.90	3.84
C119	3.12	2.00	89.36

POINT DATA TABLE				
POINT NO.	STA	OFF	RT	DESC
P1000	101+56.72	49.06	RT	BC
P1001	101+58.39	47.60	RT	EC
P1002	102+10.07	51.40	RT	BC
P1003	102+07.59	54.97	RT	PCC
P1004	102+12.07	53.48	RT	EC
P1005	102+09.67	56.76	RT	PRC
P1006	102+50.77	39.55	RT	EC
P1007	102+50.73	38.47	RT	BC
P1008	102+52.47	36.43	RT	PRC
P1009	102+89.68	35.51	RT	PRC
P1010	102+91.51	37.48	RT	EC
P1011	102+91.51	39.50	RT	AP
P1012	102+92.86	39.50	RT	EC
P1013	102+92.87	37.51	RT	BC
P1014	102+94.69	35.50	RT	PRC

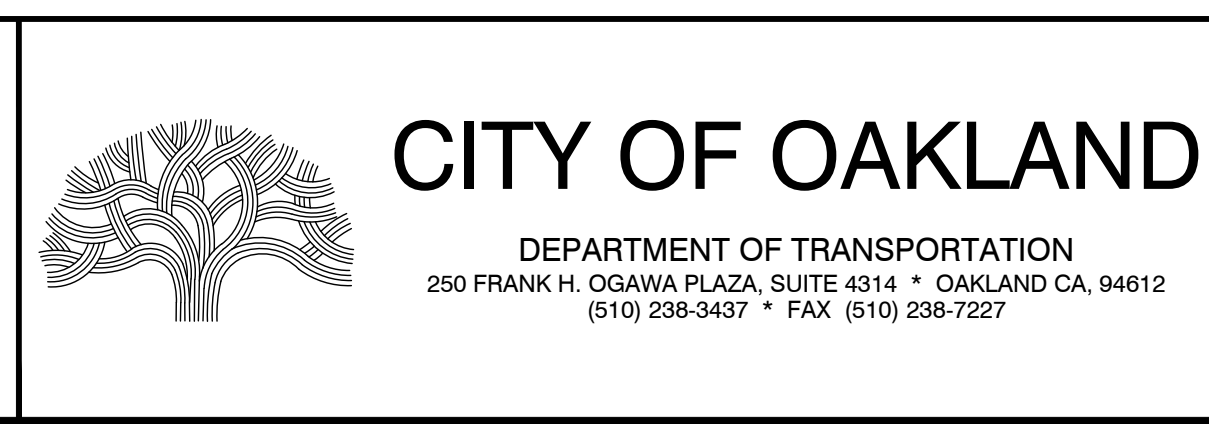
POINT DATA TABLE				
POINT NO.	STA	OFF	RT	DESC
P1015	103+32.43	36.61	RT	PRC
P1016	103+34.29	38.66	RT	EC
P1017	103+34.25	40.66	RT	AP
P1018	103+35.67	40.69	RT	EC
P1019	103+35.72	38.69	RT	BC
P1020	103+37.68	36.74	RT	PRC
P1021	103+76.67	37.42	RT	PRC
P1022	103+78.56	39.43	RT	EC
P1023	103+78.54	41.44	RT	BC
P1024	103+79.97	41.45	RT	EC
P1025	103+79.99	39.44	RT	BC
P1026	103+81.91	37.47	RT	PRC
P1027	104+20.89	37.53	RT	PRC
P1028	104+22.81	39.50	RT	EC
P1029	104+22.82	41.52	RT	AP

GENERAL NOTES:

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- CONTRACTOR SHALL CONSTRUCT TOP OF CURB AT A HEIGHT OF 6" ABOVE EXISTING GRADE AT EACH POINT, UNLESS OTHERWISE NOTED ON THE PLANS.



LAKESIDE FAMILY STREETS



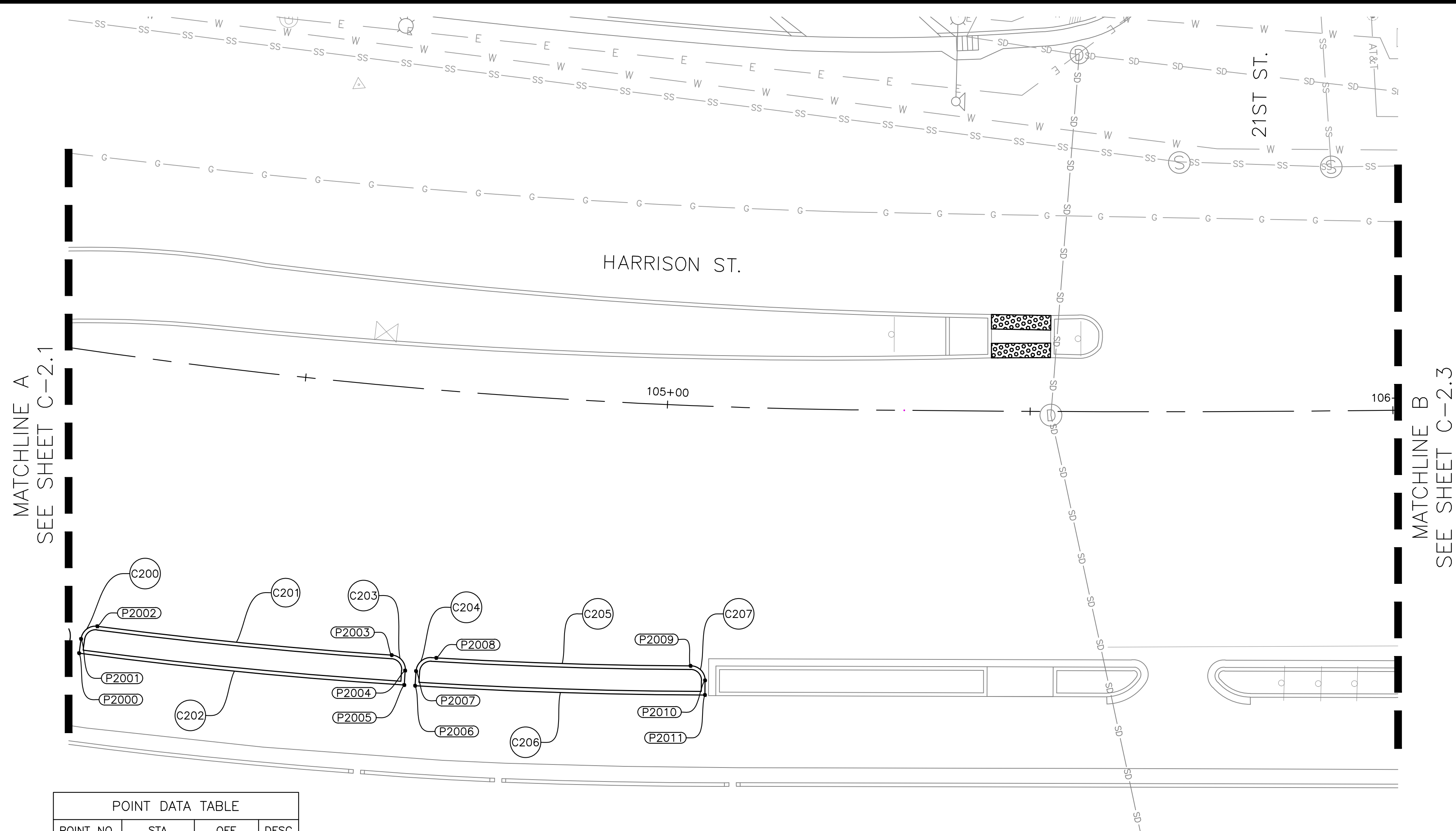
CIVIL ENGINEER SI LAU RCE NO. C57399	NO.	DATE	BY	REFERENCE
CHECKED BY SU/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:  
GRADING SHEETS  
1 OF 9

PROJECT NO. <b>1004836</b>	SHEET NO. <b>C-2.1</b>
SCALE: 1" = 10'	DATE: 10/25/2023
	26 OF 58

DRAWING NAME: P:\Great Sheets Delivery\PROJECTS\CS\11.ACTIVE\1004836 - Lakewood Family Streets (B)12.DESIGN\10 - CAD\2 - Sheets\C2.1.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93





MATCHLINE A  
SEE SHEET C-2.1

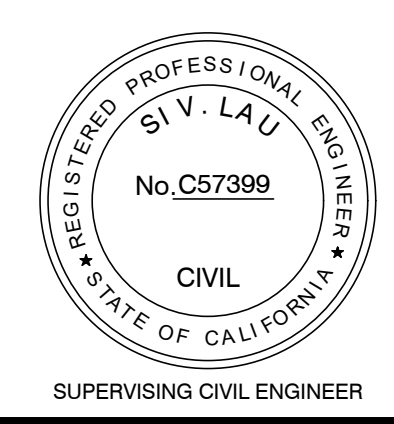
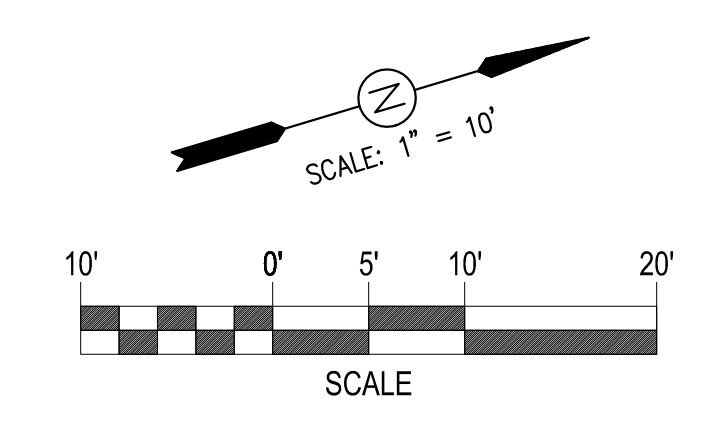
MATCHLINE B  
SEE SHEET C-2.3

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C200	3.15	2.00	90.29
C201	40.78	667.90	3.50
C202	45.04	671.90	3.84
C203	3.14	2.00	89.84
C204	3.13	2.00	89.69
C205	35.74	667.86	3.07
C206	39.97	671.90	3.41
C207	3.13	2.00	89.55

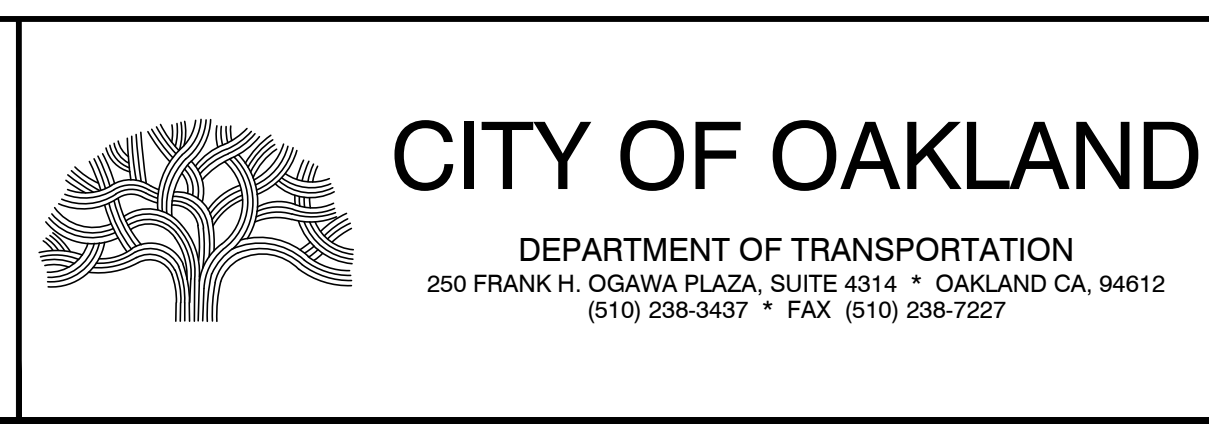
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P2000	104+24.25	41.51 RT	EC
P2001	104+24.24	39.52 RT	BC
P2002	104+26.14	37.50 RT	PRC
P2003	104+65.13	36.95 RT	PRC
P2004	104+67.07	38.91 RT	EC
P2005	104+67.11	40.91 RT	BC
P2006	104+68.54	40.88 RT	EC
P2007	104+68.50	38.87 RT	BC
P2008	104+71.02	36.83 RT	PRC
P2009	105+04.57	35.85 RT	PRC
P2010	105+06.54	37.77 RT	EC
P2011	105+06.61	39.78 RT	BC

GENERAL NOTES:

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LAKESIDE FAMILY STREETS



CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:  
GRADING SHEETS  
2 OF 9

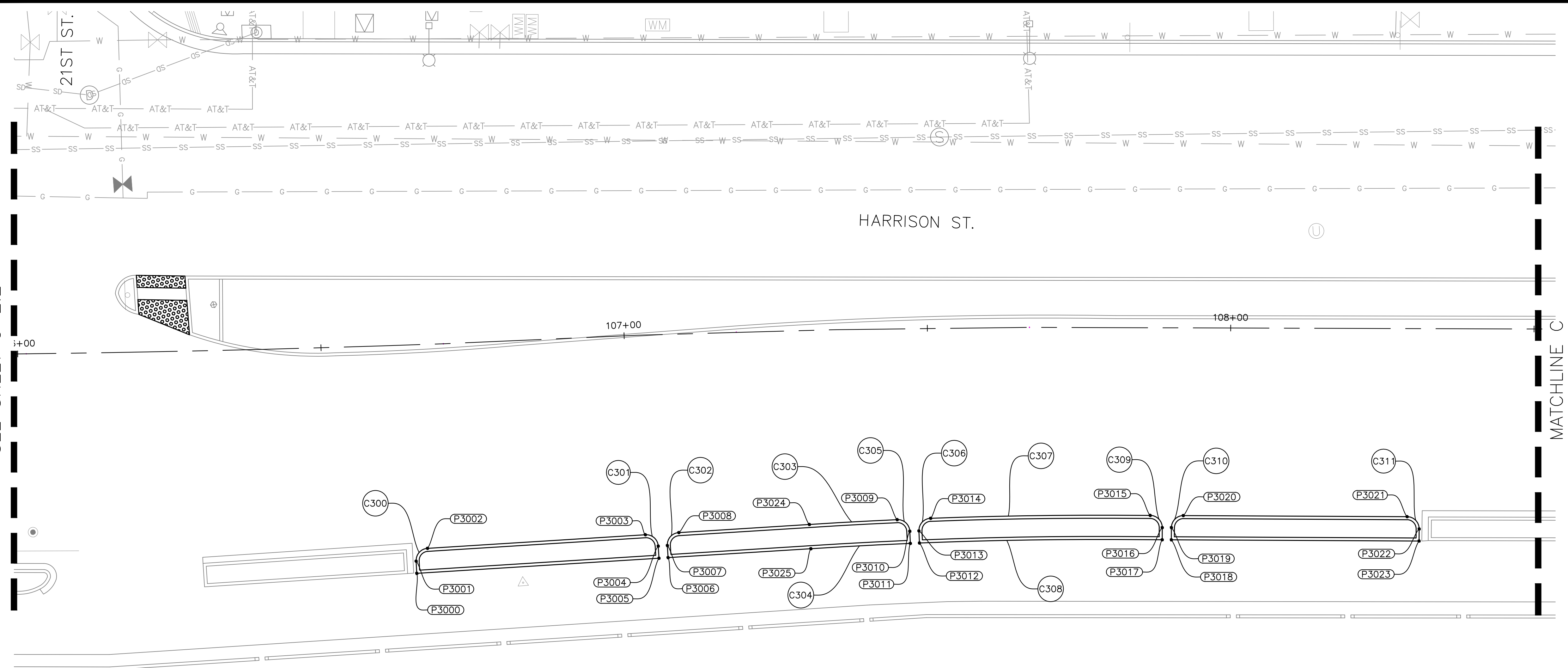
PROJECT NO.	
1004836	
SCALE: 1" = 10'	SHEET NO. C-2.2
DATE: 10/25/2023	27 OF 58

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PLOT DATE: 11-13-23  
PLOTTED BY: wang93



MATCHLINE B  
SEE SHEET C-2.2

MATCHLINE C  
SEE SHEET C-2.4



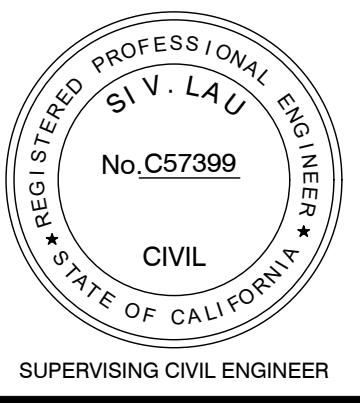
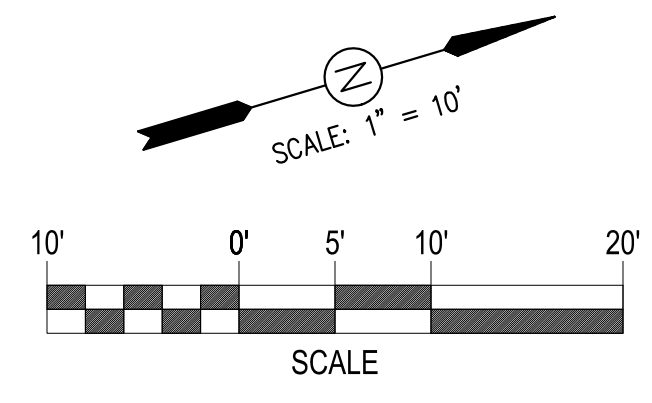
CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C300	3.13	2.00	89.56
C301	3.15	2.00	90.10
C302	3.16	2.00	90.61
C303	14.50	734.62	1.13
C304	16.42	730.62	1.29
C305	3.15	2.00	90.16
C306	3.15	2.00	90.27
C307	30.25	734.62	2.36
C308	32.07	730.62	2.52
C309	3.14	2.00	90.00
C310	3.07	2.00	88.00
C311	3.15	2.00	90.14

POINT DATA TABLE				
POINT NO.	STA	OFF	DESC	
P3000	106+64.52	37.64	RT	AP
P3001	106+64.47	35.63	RT	BC
P3002	106+66.39	33.59	RT	EC
P3003	107+02.32	32.89	RT	BC
P3004	107+04.41	34.84	RT	EC
P3005	107+04.47	36.83	RT	AP
P3006	107+05.99	36.79	RT	AP
P3007	107+05.94	34.79	RT	BC
P3008	107+07.93	32.74	RT	EC
P3009	107+44.55	31.47	RT	PCC
P3010	107+46.64	33.41	RT	EC
P3011	107+46.70	35.41	RT	BC
P3012	107+48.23	35.37	RT	EC
P3013	107+48.17	33.38	RT	BC
P3014	107+50.15	31.32	RT	PCC

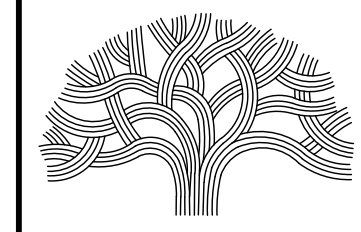
POINT DATA TABLE				
POINT NO.	STA	OFF	DESC	
P3015	107+86.83	30.91	RT	PCC
P3016	107+88.82	32.92	RT	EC
P3017	107+88.82	34.92	RT	BC
P3018	107+90.32	34.92	RT	EC
P3019	107+90.32	32.90	RT	BC
P3020	107+92.28	30.93	RT	PCC
P3021	108+29.17	30.99	RT	PCC
P3022	108+31.17	33.00	RT	EC
P3023	108+31.16	34.99	RT	BC
P3024	107+29.83	31.99	RT	BC
P3025	107+30.00	35.99	RT	EC

GENERAL NOTES:

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LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SLJ/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

GRADING SHEETS  
3 OF 9

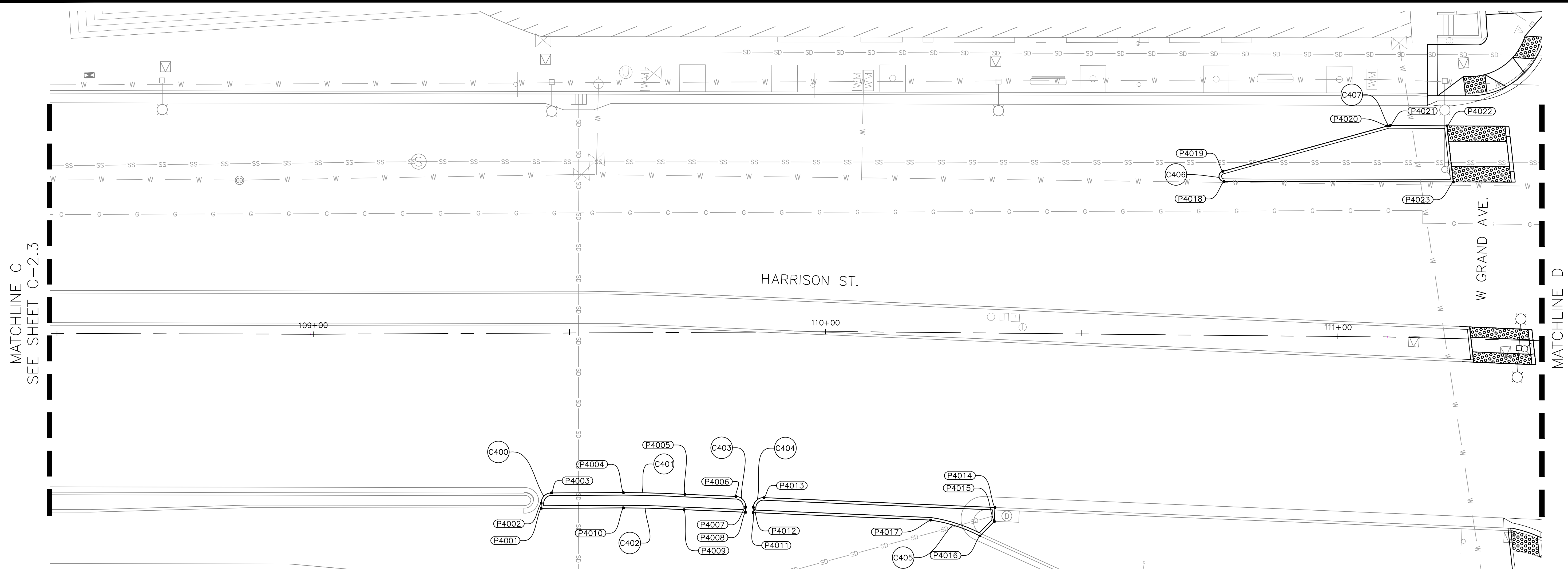
PROJECT NO.  
**1004836**

SHEET NO.  
**C-2.3**  
28 OF 58

SCALE:  
1" = 10'  
DATE:  
10/25/2023

DRAWING NAME: P:\Great Streets Delivery\PROJECTS\CSD11.ACTIVE\1004836 - Lakeside Family Streets (ES)2.DESIGN\10. CAD\2\_Sheets\C-2.3.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93





MATCHLINE C  
SEE SHEET C-2.3

MATCHLINE D  
SEE SHEET C-2.5

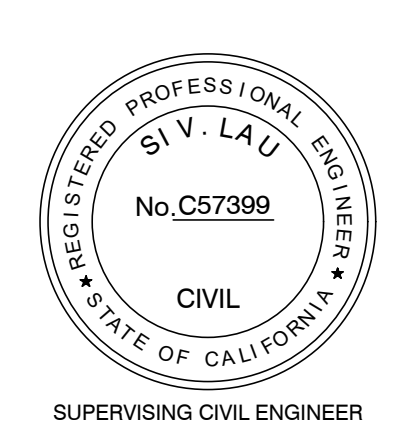
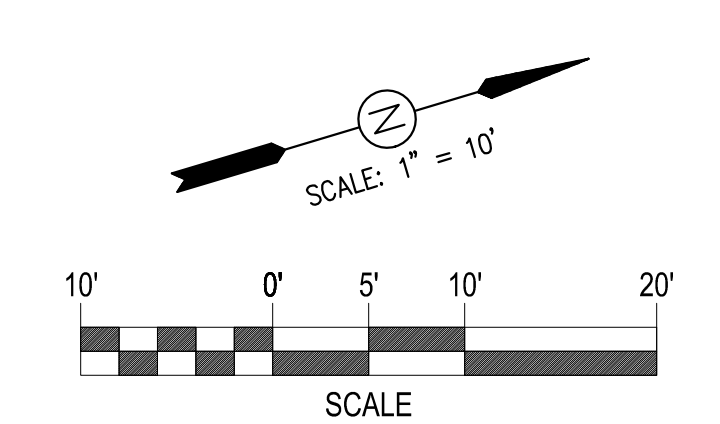
CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C400	3.14	2.00	90.00
C401	12.01	216.00	3.19
C402	11.86	213.00	3.19
C403	3.14	2.00	90.00
C404	3.11	2.00	89.21
C405	10.13	30.00	19.35
C406	2.85	1.01	162.19
C407	0.55	2.00	15.73

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P4001	109+44.29	34.41	RT AP
P4002	109+44.29	33.41	RT BC
P4003	109+46.30	31.41	RT EC
P4004	109+60.42	31.40	RT BC
P4005	109+72.48	31.78	RT EC
P4006	109+82.47	32.22	RT BC
P4007	109+84.39	34.30	RT EC
P4008	109+84.34	35.30	RT AP
P4009	109+72.32	34.78	RT BC
P4010	109+60.41	34.40	RT EC
P4011	109+85.85	35.36	RT AP
P4012	109+85.89	34.34	RT BC
P4013	109+87.99	32.45	RT EC
P4014	110+33.28	34.20	RT AP
P4015	110+33.18	36.92	RT AP

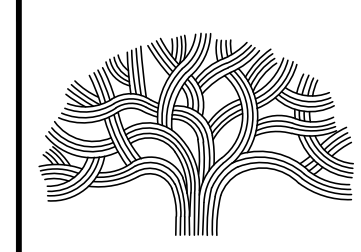
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P4016	110+30.36	39.79	RT BC
P4017	110+20.69	36.75	RT EC
P4018	110+77.37	29.89	LT BC
P4019	110+77.12	31.87	LT EC
P4020	111+08.96	41.21	LT BC
P4021	111+09.50	41.29	LT EC
P4022	111+20.51	41.43	LT AP
P4023	111+21.94	30.50	LT AP

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**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SU/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**

GRADING SHEETS  
4 OF 9

PROJECT NO.  
**1004836**

SHEET NO.  
**C-2.4**  
29 OF 58

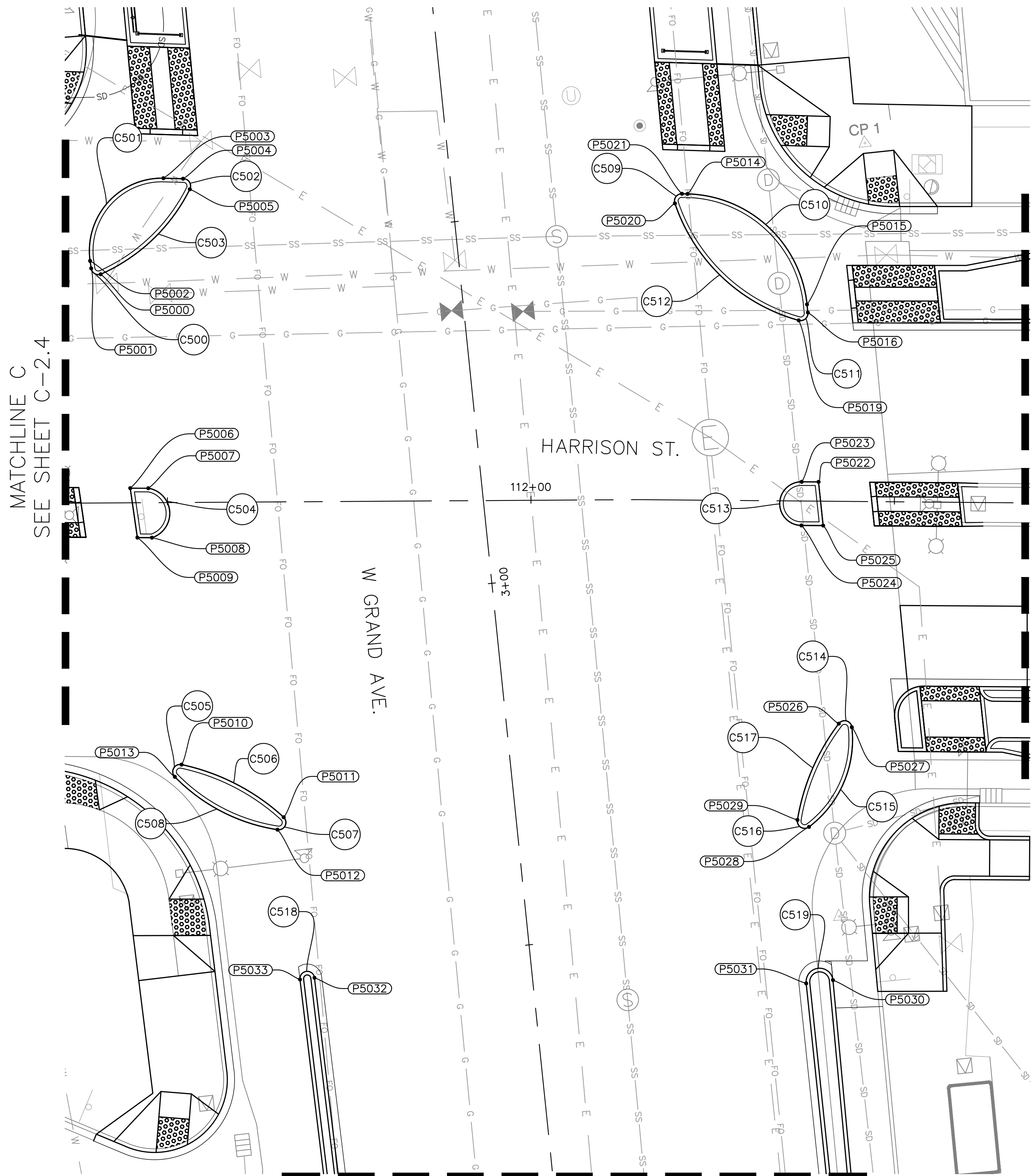
SCALE:  
1" = 10'  
DATE:  
10/25/2023

DRAWING NAME: P:\Great Streets Delivery\PROJECTS\CSD1\ACTIVE\1004836 - Lakeside Family Streets (S)2 DESIGN\0 - CAD\2 - Sheets\C-2.4.dwg  
PLOT DATE: 11-13-23  
PLOTTED BY: wangjg



MATCHLINE C  
SEE SHEET C-2.4

MATCHLINE D  
SEE SHEET C-2.6



MATCHLINE F  
SEE SHEET C-2.8

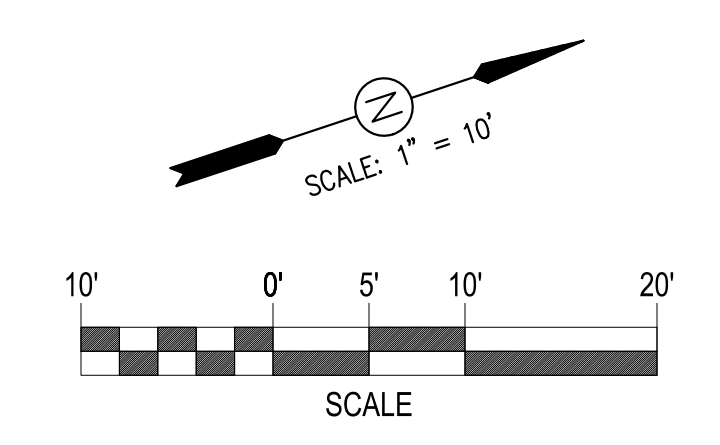
CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C500	1.75	1.00	100.15
C501	17.28	10.00	99.02
C502	2.08	1.00	118.96
C503	17.29	25.00	39.62
C504	9.38	3.50	153.56
C505	2.55	1.00	146.22
C506	16.00	30.00	30.56
C507	2.52	1.00	144.43
C508	16.17	25.00	37.05
C509	1.93	1.00	110.41
C510	24.43	17.00	82.35
C511	1.95	1.00	111.49
C512	24.38	25.00	55.88
C513	9.42	3.00	180.00
C514	2.39	1.00	136.79
C515	15.62	15.00	59.65
C516	2.38	1.00	136.26
C517	14.56	30.00	27.80
C518	3.14	1.00	180.00
C519	5.82	1.85	180.09

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P5000	111+41.11	31.30	LT PCC
P5001	111+39.81	32.12	LT EC
P5002	111+39.68	33.14	LT BC
P5003	111+49.80	44.44	LT EC
P5004	111+52.48	44.34	LT BC
P5005	111+53.40	42.89	LT PCC
P5006	111+44.90	1.84	LT AP
P5007	111+47.38	1.81	LT BC
P5008	111+47.82	4.99	RT EC
P5009	111+45.82	4.97	RT AP
P5010	111+51.66	36.24	RT BC/EC
P5011	111+65.74	43.58	RT PCC
P5012	111+64.87	45.28	RT PCC
P5013	111+50.72	37.91	RT PCC
P5014	112+21.45	42.06	LT BC
P5015	112+37.85	26.91	LT EC
P5016	112+37.98	25.79	LT BC
P5019	112+36.73	24.72	LT EC
P5020	112+19.73	40.76	LT PCC
P5021	112+20.70	42.08	LT EC

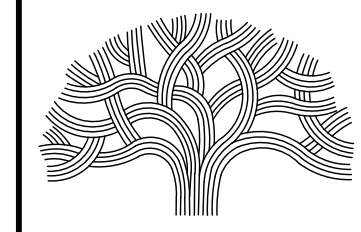
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P5022	112+39.55	2.51	LT AP
P5023	112+37.22	2.51	LT BC
P5024	112+37.21	3.49	RT EC
P5025	112+40.21	3.49	RT AP
P5026	112+42.50	30.73	RT BC/EC
P5027	112+44.30	31.22	RT PCC
P5028	112+38.44	44.95	RT PCC
P5029	112+36.84	44.00	RT PCC
P5030	112+41.86	66.01	RT BC
P5031	112+38.15	66.48	RT EC
P5032	111+69.88	65.68	RT BC
P5033	111+67.87	65.91	RT EC

GENERAL NOTES:

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LAKESIDE FAMILY STREETS



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250 FRANK H. OGAWA PLAZA, SUITE 4314 \* OAKLAND CA, 94612  
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CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

GRADING SHEETS  
5 OF 9

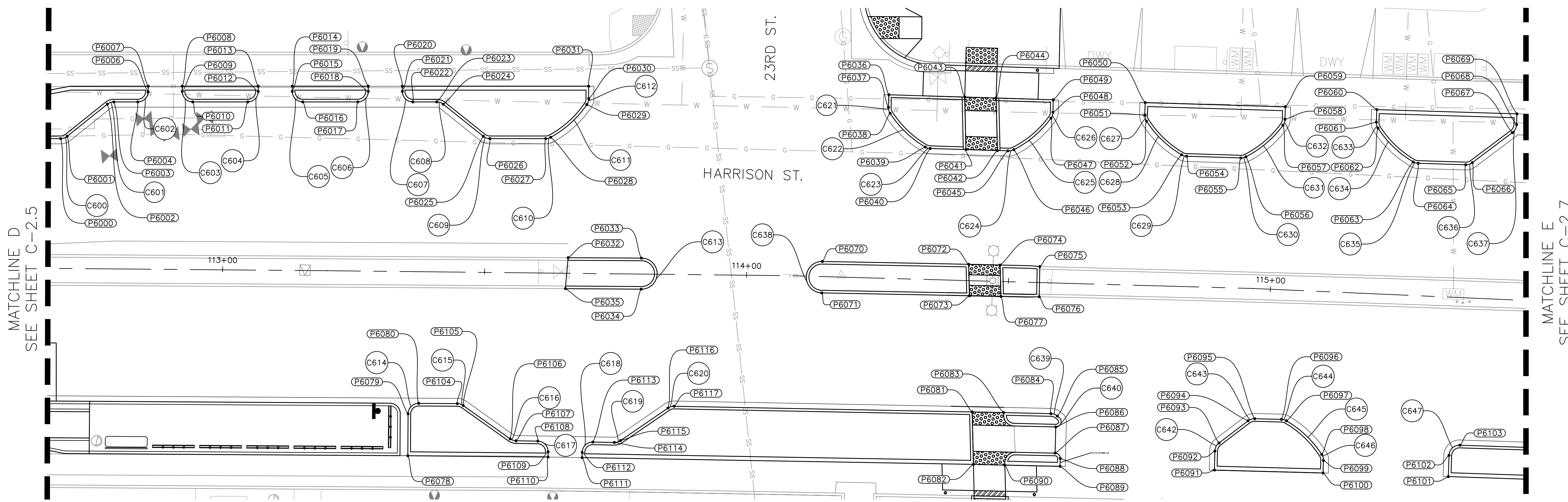
PROJECT NO.  
**1004836**

SCALE:  
1" = 10'  
DATE:  
10/25/2023

SHEET NO.  
**C-2.5**  
30 OF 58

DRAWING NAME: P:\Great Streets Delivery\PROJECTS\CSDB1 - ACTIVE\1004836 - Lakeside Family Streets (B)02 DESIGN\NO. CAD02\_Sheets\C-2.5.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang99





CURVE NO.	LENGTH	RADIUS	DELTA
C600	1.35	2.00	38.65
C601	1.35	2.00	38.65
C602	3.07	2.00	87.90
C603	3.14	2.00	90.00
C604	3.14	2.00	90.00
C605	3.14	2.00	90.00
C606	3.14	2.00	90.00
C607	3.14	2.00	90.00
C608	1.35	2.00	38.66
C609	1.35	2.00	38.66
C610	1.00	2.00	28.64
C611	9.38	20.00	26.86
C612	1.20	2.00	34.50
C613	9.41	2.96	182.21
C614	3.14	2.00	90.00
C615	1.22	2.00	35.02
C616	1.20	2.00	34.40
C617	3.14	2.00	90.00
C618	3.14	2.00	90.00
C619	1.23	2.00	35.37
C620	1.24	2.00	35.48
C621	1.20	2.00	34.49
C622	9.37	20.00	26.86
C623	1.00	2.00	28.66

CURVE NO.	LENGTH	RADIUS	DELTA
C624	1.00	2.00	28.66
C625	9.37	20.00	26.85
C626	1.20	2.00	34.49
C627	1.20	2.00	34.49
C628	9.37	20.00	26.86
C629	1.00	2.00	28.66
C630	1.00	2.00	28.66
C631	9.37	20.00	26.86
C632	1.20	2.00	34.49
C633	1.20	2.00	34.50
C634	9.38	20.00	26.86
C635	1.00	2.00	28.64
C636	1.35	2.00	38.59
C637	1.79	2.00	51.41
C638	9.42	3.00	180.00
C639	1.35	2.00	38.69
C640	2.47	1.00	141.37
C641	1.57	1.00	90.00
C642	1.80	2.00	51.46
C643	1.35	2.00	38.76
C644	1.00	2.00	28.63
C645	9.39	20.00	26.89
C646	1.20	2.00	34.50
C647	3.15	2.00	90.19

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6000	112+68.88	24.58	LT BC
P6001	112+70.12	25.03	LT EC
P6002	112+77.69	31.22	LT BC
P6003	112+78.93	31.67	LT EC
P6004	112+83.46	31.72	LT BC
P6006	112+85.43	33.67	LT EC
P6007	112+85.42	34.74	LT AP
P6008	112+91.89	34.82	LT AP
P6009	112+91.90	33.82	LT BC
P6010	112+93.92	31.84	LT EC
P6011	113+04.37	31.98	LT BC
P6012	113+06.33	34.00	LT EC
P6013	113+06.32	35.00	LT AP
P6014	113+12.79	35.10	LT AP
P6015	113+12.80	34.10	LT BC
P6016	113+14.82	32.13	LT EC
P6017	113+25.70	32.22	LT BC
P6018	113+27.68	34.23	LT EC
P6019	113+27.67	35.23	LT AP
P6020	113+34.13	35.26	LT AP
P6021	113+34.13	34.26	LT BC
P6022	113+36.13	32.27	LT EC

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6023	113+40.65	32.29	LT BC
P6024	113+41.90	31.86	LT EC
P6025	113+49.55	25.79	LT BC
P6026	113+50.80	25.37	LT EC
P6027	113+61.39	25.47	LT BC
P6028	113+62.34	25.72	LT PCC
P6029	113+69.13	32.02	LT PCC
P6030	113+69.47	33.16	LT EC
P6031	113+69.44	35.55	LT AP
P6032	113+65.91	2.79	LT AP
P6033	113+79.89	2.88	LT BC
P6034	113+79.93	3.04	RT EC
P6035	113+65.46	3.12	RT AP
P6036	114+26.37	34.90	LT AP
P6037	114+26.35	32.51	LT BC
P6038	114+26.69	31.37	LT PCC
P6039	114+33.50	25.10	LT PCC
P6040	114+34.45	24.85	LT EC
P6041	114+41.24	24.81	LT AP
P6042	114+47.22	24.78	LT AP
P6043	114+40.76	34.81	LT AP
P6044	114+46.72	34.78	LT AP

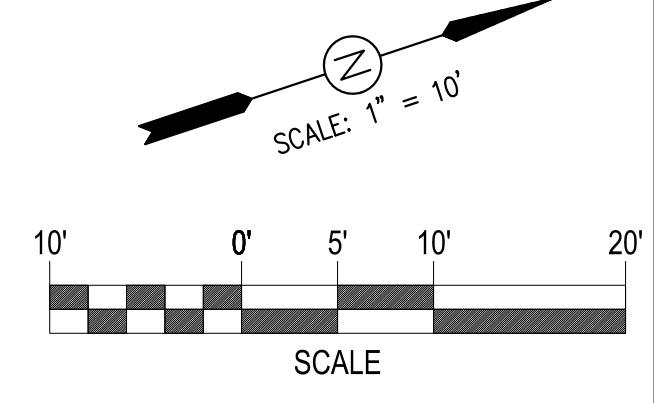
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6045	114+49.21	24.78	LT BC
P6046	114+50.34	25.02	LT PCC
P6047	114+57.21	31.22	LT PCC
P6048	114+57.56	32.36	LT EC
P6049	114+57.55	34.75	LT AP
P6050	114+74.98	34.75	LT AP
P6051	114+74.99	32.35	LT BC
P6052	114+75.34	31.22	LT EC
P6053	114+82.21	25.01	LT PCC
P6054	114+83.16	24.77	LT EC
P6055	114+93.47	24.81	LT BC
P6056	114+94.42	25.06	LT PCC
P6057	115+01.03	31.36	LT PCC
P6058	115+01.36	32.50	LT PCC
P6059	115+01.33	34.90	LT AP
P6060	115+18.79	35.13	LT AP
P6061	115+18.80	32.73	LT BC
P6062	115+19.17	31.61	LT PCC
P6063	115+26.15	25.48	LT PCC
P6064	115+27.11	25.24	LT EC
P6065	115+36.19	25.37	LT BC
P6066	115+37.43	25.82	LT PCC

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6067	115+44.83	31.88	LT BC
P6068	115+45.56	33.46	LT EC
P6069	115+45.53	35.49	LT AP
P6070	114+14.40	2.84	LT BC
P6071	114+14.41	3.16	RT EC
P6072	114+42.32	2.93	LT AP
P6073	114+42.62	3.06	RT AP
P6074	114+48.32	2.96	LT AP
P6075	114+55.89	2.87	LT AP
P6076	114+55.95	2.89	RT AP
P6077	114+48.63	3.04	RT AP
P6078	113+35.54	35.24	RT AP
P6079	113+35.55	27.24	RT BC
P6080	113+37.56	25.24	RT EC
P6081	114+43.72	25.20	RT AP
P6082	114+44.22	35.19	RT AP
P6083	114+49.75	25.17	RT AP
P6084	114+58.81	25.12	RT BC
P6085	114+60.07	25.55	RT PCC
P6086	114+59.82	27.63	RT EC
P6087	113+62.48	34.28	RT BC
P6088	114+60.86	33.62	RT EC

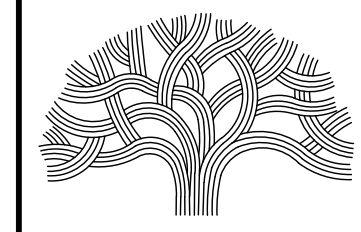
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6089	114+60.87	35.12	RT AP
P6090	114+50.22	35.18	RT AP
P6091	114+90.53	34.89	RT AP
P6092	114+90.49	31.25	RT BC
P6093	114+91.23	29.68	RT EC
P6094	114+96.85	25.27	RT BC
P6095	114+98.09	24.80	RT EC
P6096	115+03.19	24.71	RT BC
P6097	115+04.16	24.94	RT PCC
P6098	115+11.17	31.05	RT PCC
P6099	115+11.54	32.18	RT EC
P6100	115+11.58	34.58	RT AP
P6101	115+35.49	34.22	RT AP
P6102	115+35.45	30.17	RT BC
P6103	115+37.43	28.14	RT EC
P6104	113+44.97	25.24	RT BC
P6105	113+46.12	25.60	RT EC
P6106	113+55.16	31.88	RT BC
P6107	113+56.29	32.24	RT EC
P6108	113+60.48	32.27	RT BC
P6109	113+62.48	34.28	RT EC
P6110	113+62.47	35.28	RT AP

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P6111	113+69.02	35.32	RT AP
P6112	113+69.02	34.32	RT BC
P6113	113+71.05	32.33	RT EC
P6114	113+75.19	32.35	RT BC
P6115	113+76.35	31.99	RT EC
P6116	113+85.38	25.65	RT BC
P6117	113+86.55	25.29	RT EC

- GENERAL NOTES:
- SEE CIVIL LAYOUT PLANS FOR CURB AND GUTTER TYPE.
  - CONTRACTOR SHALL CONSTRUCT TOP OF CURB AT A HEIGHT OF 6" ABOVE EXISTING GRADE AT EACH POINT, UNLESS OTHERWISE NOTED ON THE PLANS.



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:

GRADING SHEETS  
6 OF 9

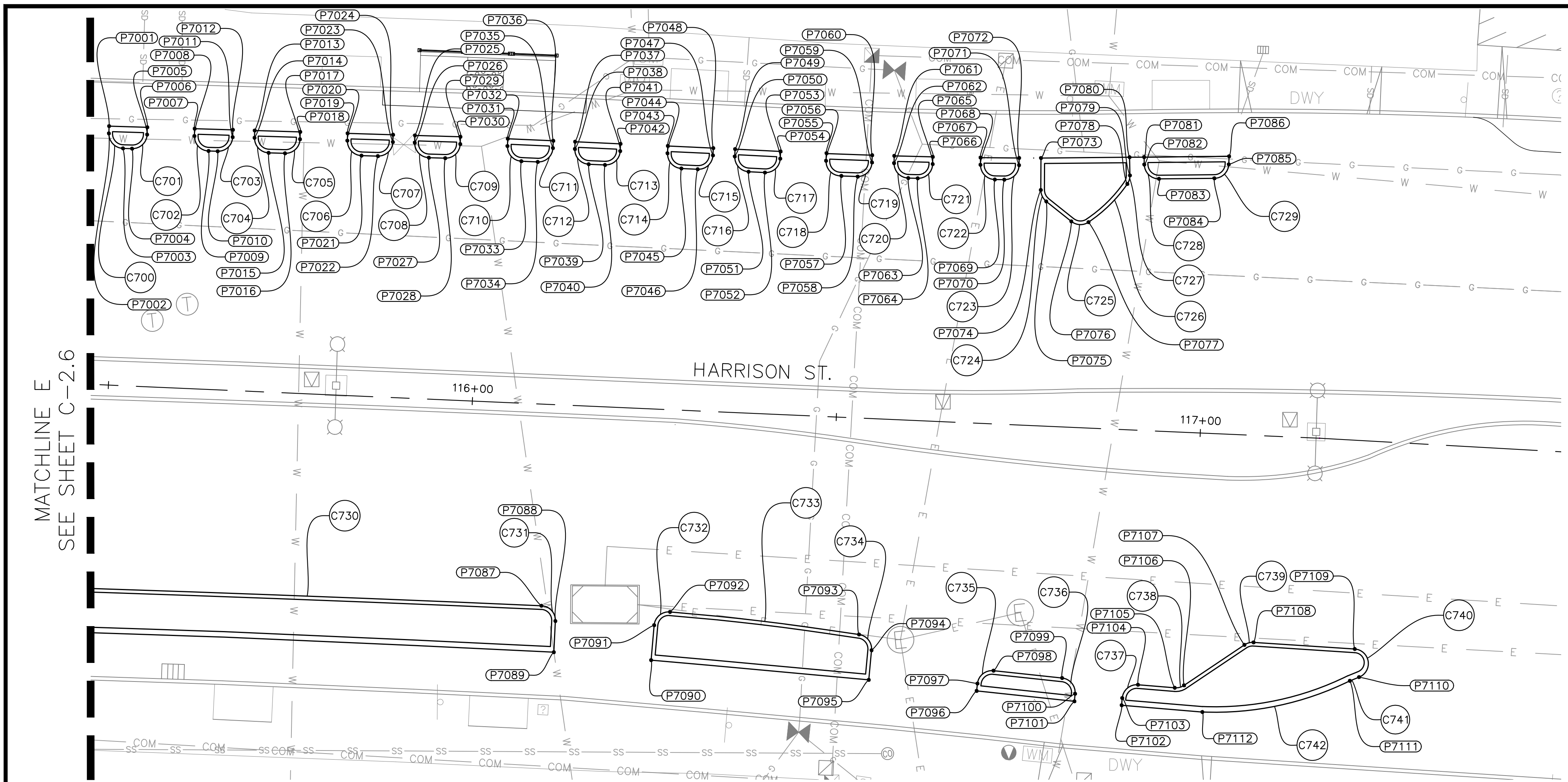
PROJECT NO.  
**1004836**

SCALE:  
1" = 10'  
DATE:  
10/25/2023

SHEET NO.  
**C-2.6**  
31 OF 58

DRAWING NAME: P:\Great Sheets Delivery\PROJECTS\CSD\1-Active\1004836 - Lakeside Family Streets (R)2- DESIGN\NO. C-02-2 Sheets C-2.6.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang99





MATCHLINE E  
SEE SHEET C-2.6

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C700	3.14	2.00	90.00
C701	3.14	2.00	90.00
C702	3.14	2.00	90.00
C703	3.14	2.00	90.00
C704	3.14	2.00	90.00
C705	3.14	2.00	90.00
C706	3.14	2.00	90.00
C707	3.14	2.00	90.00
C708	3.14	2.00	90.00
C709	3.14	2.00	90.00
C710	3.14	2.00	90.00
C711	3.14	2.00	89.97
C712	3.14	2.00	89.93
C713	3.14	2.00	89.98
C714	3.14	2.00	89.95
C715	3.14	2.00	90.00
C716	3.13	2.00	89.73
C717	3.15	2.00	90.27
C718	3.15	2.00	90.24
C719	3.15	2.00	90.24
C720	3.15	2.00	90.20
C721	3.15	2.00	90.20

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C722	3.14	2.00	90.00
C723	3.16	2.00	90.41
C724	1.81	2.00	51.71
C725	2.53	2.00	72.34
C726	7.52	20.00	21.54
C727	1.25	2.00	35.83
C728	3.13	2.00	89.58
C729	3.04	2.00	86.97
C730	71.42	5024.56	0.81
C731	3.15	2.00	90.23
C732	3.15	2.00	90.17
C733	15.29	318.79	2.75
C734	3.04	2.00	87.15
C735	3.13	2.00	89.73
C736	3.10	2.00	88.68
C737	3.14	2.00	89.95
C738	1.35	2.00	38.61
C739	1.31	2.00	37.60
C740	5.41	2.00	155.11
C741	1.36	45.00	1.73
C742	20.92	41.78	28.69

**GENERAL NOTES:**

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- CONTRACTOR SHALL CONSTRUCT TOP OF CURB AT A HEIGHT OF 6" ABOVE EXISTING GRADE AT EACH POINT, UNLESS OTHERWISE NOTED ON THE PLANS.

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7001	115+48.53	35.53	LT AP
P7002	115+48.54	34.53	LT BC
P7003	115+50.57	32.56	LT EC
P7004	115+51.82	32.58	LT BC
P7005	115+53.79	34.60	LT AP
P7006	115+53.78	35.60	LT AP
P7007	115+60.28	35.69	LT AP
P7008	115+60.29	34.69	LT BC
P7009	115+62.32	32.72	LT EC
P7010	115+63.57	32.74	LT BC
P7011	115+65.54	34.76	LT EC
P7012	115+65.53	35.76	LT AP
P7013	115+68.53	35.80	LT AP
P7014	115+68.54	34.80	LT BC
P7015	115+70.57	32.83	LT EC
P7016	115+72.82	32.86	LT BC
P7017	115+74.79	34.89	LT EC
P7018	115+74.78	35.89	LT AP
P7019	115+81.28	35.98	LT AP
P7020	115+81.29	34.98	LT BC

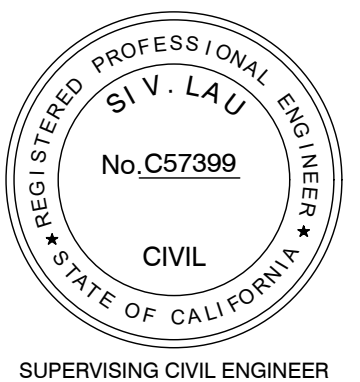
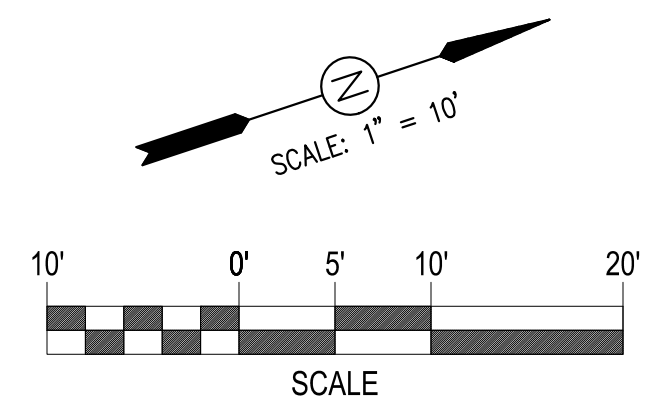
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7021	115+83.32	33.00	LT EC
P7022	115+85.57	33.03	LT BC
P7023	115+87.54	35.06	LT EC
P7024	115+87.53	36.06	LT AP
P7025	115+90.52	36.10	LT AP
P7026	115+90.54	35.10	LT BC
P7027	115+92.57	33.13	LT EC
P7028	115+94.81	33.16	LT BC
P7029	115+96.79	35.19	LT EC
P7030	115+96.77	36.19	LT AP
P7031	116+03.27	36.20	LT AP
P7032	116+03.27	35.20	LT BC
P7033	116+05.27	33.20	LT EC
P7034	116+07.52	33.20	LT BC
P7035	116+09.52	35.20	LT EC
P7036	116+09.52	36.20	LT AP
P7037	116+12.52	36.19	LT AP
P7038	116+12.54	35.19	LT BC
P7039	116+14.52	33.19	LT EC
P7040	116+16.76	33.19	LT BC

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7041	116+18.76	35.18	LT EC
P7042	116+18.77	36.18	LT AP
P7043	116+25.27	36.17	LT AP
P7044	116+25.26	35.17	LT BC
P7045	116+27.26	33.16	LT EC
P7046	116+29.50	33.16	LT BC
P7047	116+31.51	35.15	LT EC
P7048	116+31.51	36.15	LT AP
P7049	116+34.51	36.14	LT AP
P7050	116+34.51	35.13	LT BC
P7051	116+36.49	33.13	LT EC
P7052	116+38.74	33.11	LT BC
P7053	116+40.76	35.10	LT EC
P7054	116+40.76	36.10	LT AP
P7055	116+47.06	36.12	LT AP
P7056	116+47.05	35.10	LT BC
P7057	116+49.24	33.12	LT EC
P7058	116+51.48	33.11	LT BC
P7059	116+53.36	35.14	LT EC
P7060	116+53.34	36.13	LT AP

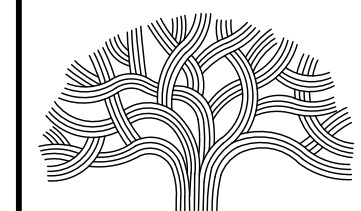
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7061	116+56.37	36.17	LT AP
P7062	116+56.39	35.18	LT BC
P7063	116+58.42	33.21	LT EC
P7064	116+59.72	33.24	LT BC
P7065	116+61.68	35.28	LT EC
P7066	116+61.66	36.28	LT AP
P7067	116+68.21	36.45	LT AP
P7068	116+68.24	35.47	LT BC
P7069	116+70.31	33.54	LT EC
P7070	116+71.60	33.58	LT BC
P7071	116+73.54	35.66	LT EC
P7072	116+73.50	36.64	LT AP
P7073	116+76.50	36.76	LT AP
P7074	116+76.67	32.38	LT BC
P7075	116+77.49	30.84	LT EC
P7076	116+81.05	28.25	LT BC
P7077	116+83.41	28.26	LT EC
P7078	116+88.50	33.73	LT BC
P7079	116+88.80	34.92	LT EC
P7080	116+88.64	37.41	LT AP

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7081	116+90.64	37.51	LT AP
P7082	116+90.70	36.50	LT BC
P7083	116+92.81	34.62	LT EC
P7084	117+00.40	35.03	LT BC
P7085	117+02.29	37.03	LT EC
P7086	117+02.29	38.13	LT AP
P7087	116+10.70	27.67	RT BC
P7088	116+12.70	29.68	RT EC
P7089	116+12.68	33.96	RT AP
P7090	116+26.07	34.47	RT AP
P7091	116+26.28	29.65	RT BC
P7092	116+28.37	27.74	RT PCC
P7093	116+54.42	29.70	RT PCC
P7094	116+56.23	31.79	RT EC
P7095	116+56.04	35.86	RT AP
P7096	116+70.89	36.72	RT AP
P7097	116+70.96	35.72	RT BC
P7098	116+73.08	33.86	RT EC
P7099	116+82.53	34.45	RT BC
P7100	116+84.41	36.52	RT EC

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P7101	116+84.36	37.57	RT AP
P7102	116+90.86	37.83	RT AP
P7103	116+90.90	36.83	RT BC
P7104	116+92.98	34.91	RT EC
P7105	116+98.03	35.11	RT BC
P7106	116+99.30	34.72	RT EC
P7107	117+07.34	28.80	RT BC
P7108	117+08.56	28.41	RT EC
P7109	117+22.84	28.63	RT BC
P7110	117+23.65	32.45	RT PRC
P7111	117+22.42	33.03	RT PRC
P7112	117+01.97	38.27	RT EC



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**

GRADING SHEETS  
7 OF 9

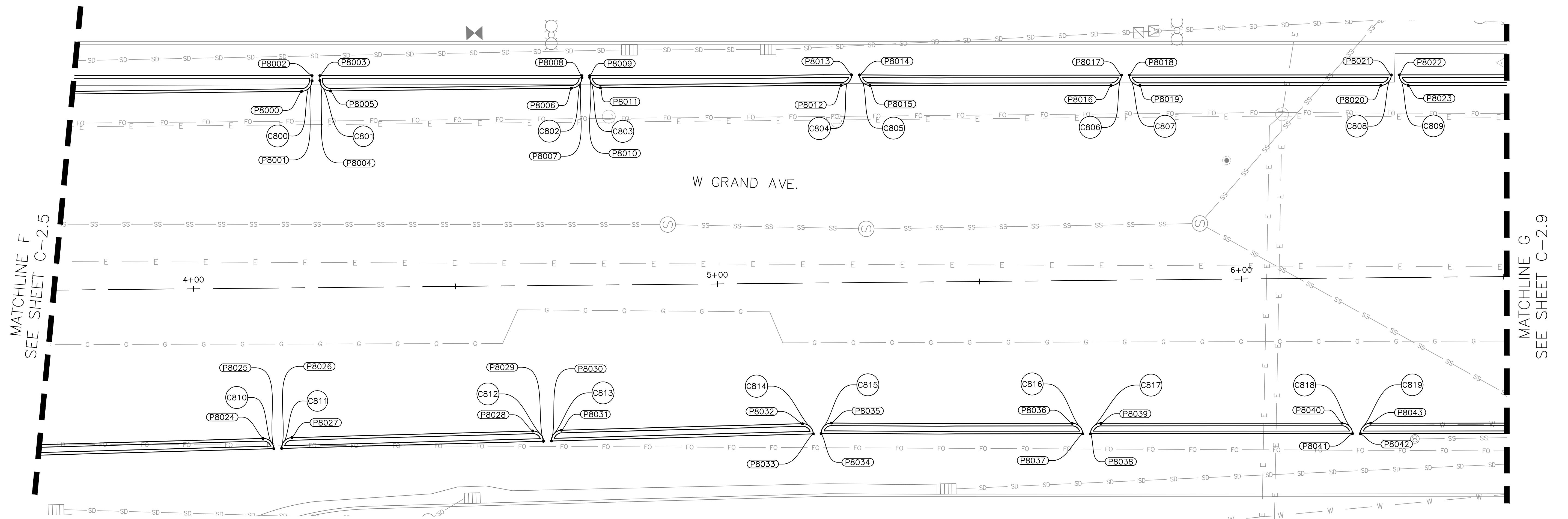
PROJECT NO.  
**1004836**

SCALE:  
1" = 10'  
DATE:  
10/25/2023

SHEET NO.  
**C-2.7**  
32 OF 58

DRAWING NAME: P:\Great Sheets Delivery\PROJECTS\CS\01 - ACTIVE\1004836 - Lakeside Family Streets (RS)\2 - DESIGN\0 - CAD\2 - Sheets\C2.7.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang99





CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C800	3.12	2.00	89.33
C801	3.16	2.00	90.67
C802	3.12	2.00	89.33
C803	3.16	2.00	90.67
C804	3.14	2.00	90.00
C805	3.14	2.00	90.00
C806	3.14	2.00	90.00
C807	3.14	2.00	90.00
C808	3.14	2.00	90.00
C809	3.14	2.00	90.00
C810	3.14	2.00	90.00
C811	3.14	2.00	90.00
C812	3.14	2.00	90.00
C813	3.14	2.00	90.00
C814	3.14	2.00	90.00
C815	3.18	2.00	91.12
C816	3.14	2.00	90.00
C817	3.14	2.00	90.00
C818	3.14	2.00	90.00
C819	3.14	2.00	90.00

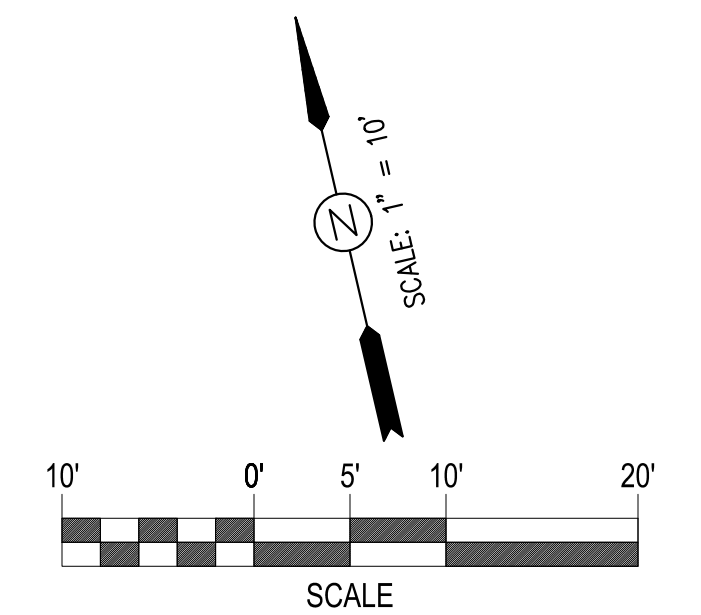
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P8000	4+20.99	37.52	LT BC
P8001	4+22.98	39.50	LT EC
P8002	4+22.99	40.48	LT AP
P8003	4+24.49	40.47	LT AP
P8004	4+24.48	39.55	LT BC
P8005	4+26.49	37.53	LT EC
P8006	4+72.49	37.64	LT BC
P8007	4+74.49	39.62	LT EC
P8008	4+74.49	40.00	LT AP
P8009	4+75.99	39.99	LT AP
P8010	4+75.99	39.67	LT BC
P8011	4+77.99	37.65	LT EC
P8012	5+23.96	37.71	LT BC
P8013	5+25.99	39.68	LT EC
P8014	5+27.49	39.66	LT BC

POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P8015	5+29.46	37.63	LT EC
P8016	5+75.46	37.18	LT BC
P8017	5+77.48	39.16	LT EC
P8018	5+78.98	39.15	LT BC
P8019	5+80.96	37.13	LT EC
P8020	6+26.96	36.73	LT BC
P8021	6+28.98	38.71	LT EC
P8022	6+30.48	38.70	LT BC
P8023	6+32.18	36.68	LT EC
P8024	4+13.00	28.70	RT BC
P8025	4+15.03	30.66	RT EC
P8026	4+16.53	30.64	RT BC
P8027	4+18.50	28.60	RT EC
P8028	4+64.49	27.76	RT BC
P8029	4+66.52	29.73	RT EC

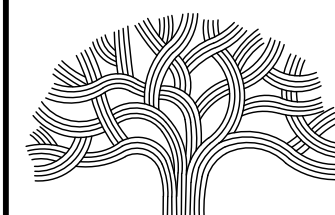
POINT DATA TABLE			
POINT NO.	STA	OFF	DESC
P8030	4+68.02	29.70	RT BC
P8031	4+69.99	27.67	RT EC
P8032	5+15.98	26.84	RT BC
P8033	5+18.02	28.80	RT EC
P8034	5+19.52	28.78	RT BC
P8035	5+21.54	26.77	RT EC
P8036	5+67.45	27.25	RT BC
P8037	5+69.43	29.27	RT EC
P8038	5+70.93	29.28	RT BC
P8039	5+72.95	27.30	RT EC
P8040	6+18.95	27.71	RT BC
P8041	6+20.93	29.72	RT EC
P8042	6+22.43	29.74	RT BC
P8043	6+24.45	27.75	RT EC

GENERAL NOTES:

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- CONTRACTOR SHALL CONSTRUCT TOP OF CURB AT A HEIGHT OF 6" ABOVE EXISTING GRADE AT EACH POINT, UNLESS OTHERWISE NOTED ON THE PLANS.



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:

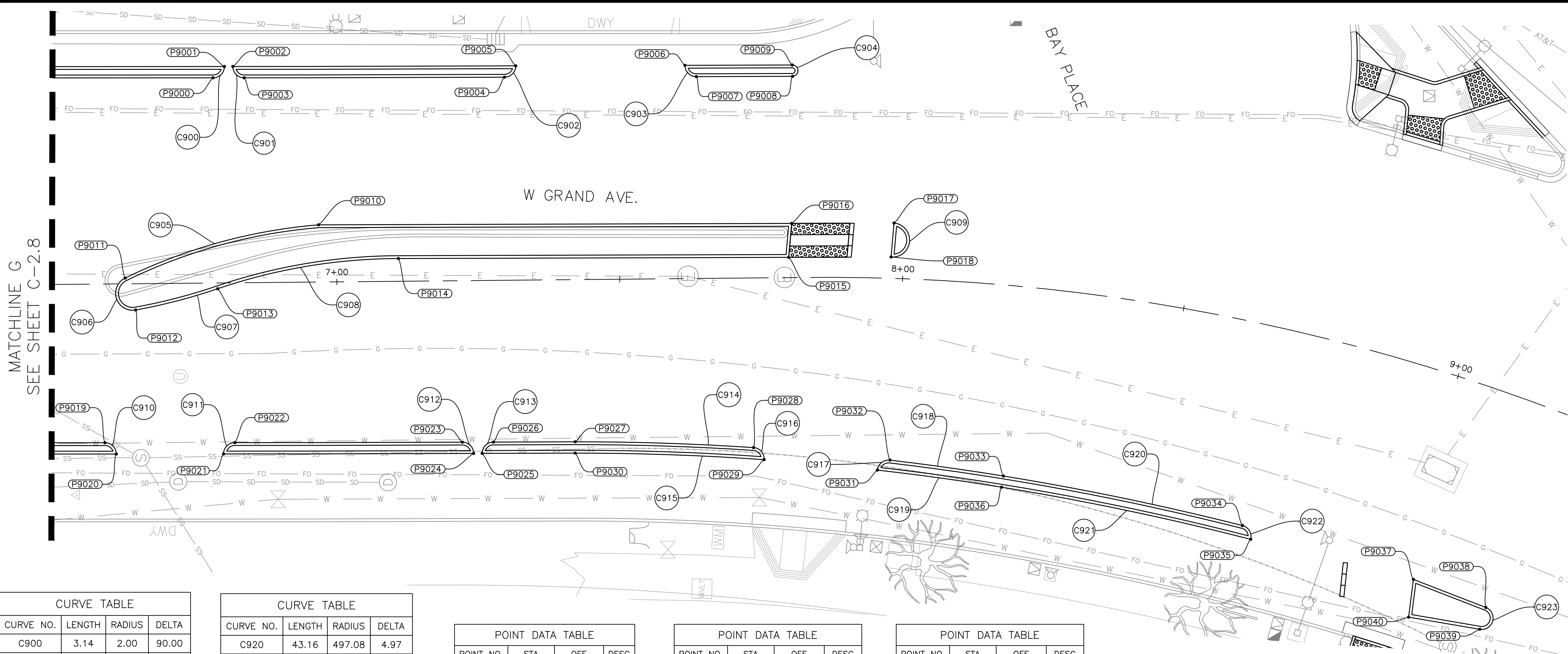
GRADING SHEETS  
8 OF 9

PROJECT NO.  
**1004836**

SCALE:  
1" = 10'  
DATE:  
10/25/2023

SHEET NO.  
**C-2.8**  
33 OF 58





MATCHLINE G  
SEE SHEET C-2.8

CURVE NO.	LENGTH	RADIUS	DELTA
C900	3.14	2.00	90.00
C901	3.14	2.00	90.00
C902	3.14	2.00	90.00
C903	3.14	2.00	90.00
C904	3.10	1.00	177.65
C905	35.66	95.50	21.40
C906	8.59	3.00	164.13
C907	14.97	99.46	8.62
C908	32.55	100.00	18.65
C909	9.46	3.01	180.00
C910	3.14	2.00	90.00
C911	3.14	2.00	90.00
C912	3.14	2.00	90.00
C913	3.14	2.00	90.00
C914	31.55	469.29	3.85
C915	33.41	467.29	4.10
C916	3.15	2.00	90.25
C917	3.15	2.00	90.12
C918	20.24	469.29	2.47
C919	22.16	467.29	2.72

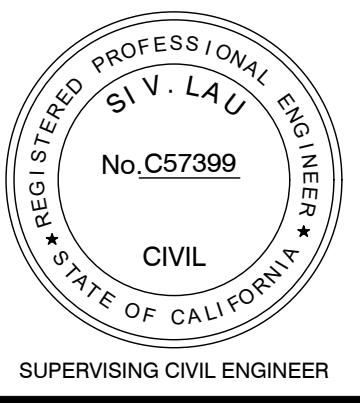
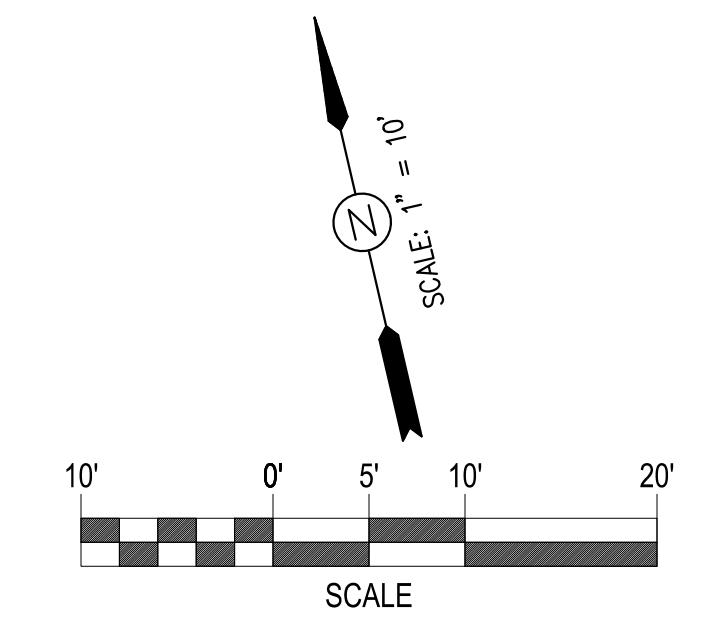
CURVE NO.	LENGTH	RADIUS	DELTA
C920	43.16	497.08	4.97
C921	44.99	495.78	5.20
C922	3.15	2.00	90.36
C923	5.90	2.01	167.95

POINT NO.	STA	OFF	DESC
P9000	6+78.46	36.27	LT BC
P9001	6+80.47	38.26	LT EC
P9002	6+81.97	38.24	LT BC
P9003	6+83.96	36.22	LT EC
P9004	7+29.95	35.90	LT BC
P9005	7+31.97	37.89	LT EC
P9006	7+61.87	37.70	LT BC
P9007	7+63.86	35.69	LT EC
P9008	7+80.86	35.58	LT BC
P9009	7+80.84	37.58	LT EC
P9010	6+96.86	10.11	LT BC
P9011	6+62.59	1.02	LT PCC
P9012	6+64.39	4.64	RT PCC
P9013	6+78.90	1.02	RT PRC
P9014	7+10.91	4.02	LT EC

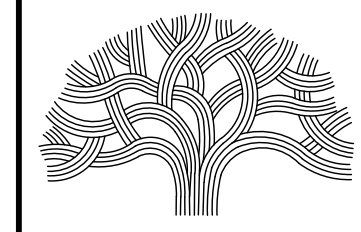
POINT NO.	STA	OFF	DESC
P9015	7+79.90	3.59	LT AP
P9016	7+80.48	9.58	LT AP
P9017	7+98.17	9.77	LT BC
P9018	7+97.84	3.76	LT EC
P9019	6+58.74	28.06	RT BC
P9020	6+60.73	30.07	RT EC
P9021	6+79.68	30.24	RT BC
P9022	6+81.70	28.26	RT EC
P9023	7+21.90	28.54	RT BC
P9024	7+23.89	30.56	RT EC
P9025	7+25.39	30.57	RT BC
P9026	7+27.40	28.58	RT EC
P9027	7+41.85	28.67	RT BC
P9028	7+73.36	29.98	RT PCC
P9029	7+75.21	32.13	RT BC/EC

POINT NO.	STA	OFF	DESC
P9030	7+41.83	30.67	RT EC
P9031	7+96.45	33.96	RT BC/EC
P9032	7+98.83	32.14	RT PCC
P9033	8+21.03	33.66	RT PCC
P9034	8+68.70	35.59	RT PCC
P9035	8+70.88	37.63	RT EC/BC
P9036	8+20.88	35.66	RT PCC
P9037	9+03.87	36.59	RT AP
P9038	9+19.14	36.96	RT BC
P9039	9+19.56	40.94	RT EC
P9040	9+05.35	43.18	RT AP

- GENERAL NOTES:
- SEE CIVIL LAYOUT PLANS FOR CURB AND GUTTER TYPE.
  - CONTRACTOR SHALL CONSTRUCT TOP OF CURB AT A HEIGHT OF 6" ABOVE EXISTING GRADE AT EACH POINT, UNLESS OTHERWISE NOTED ON THE PLANS.



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:

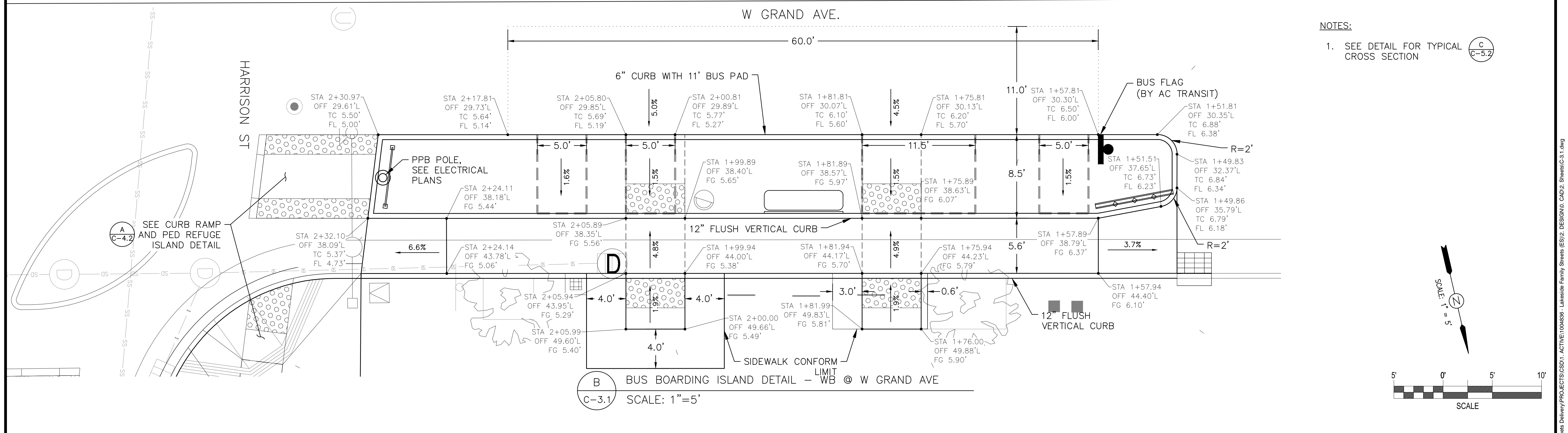
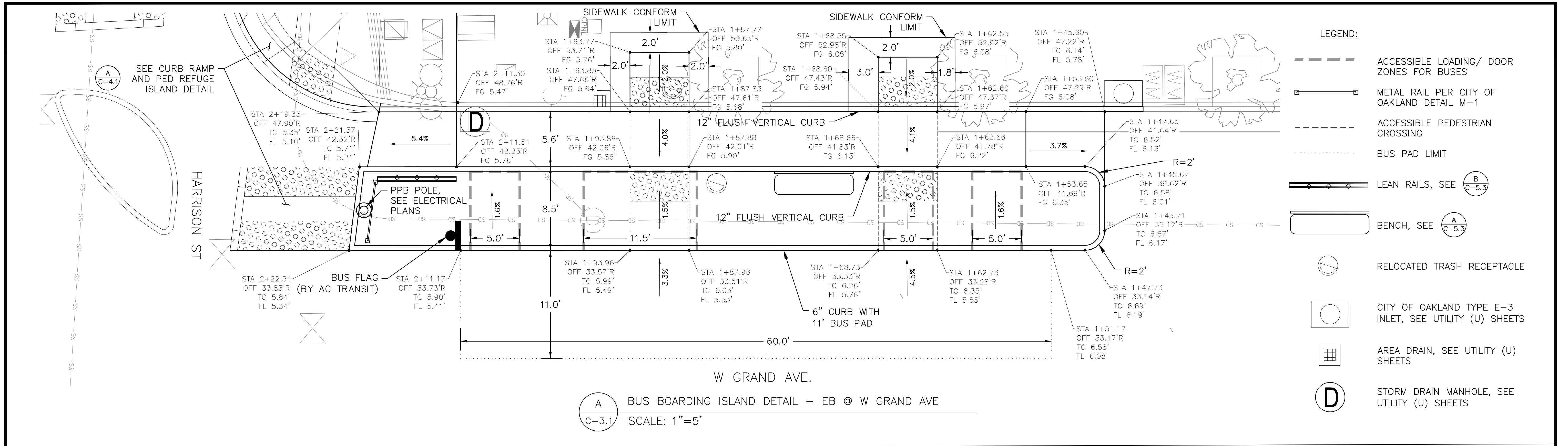
GRADING SHEETS  
9 OF 9

PROJECT NO.  
**1004836**

SHEET NO.  
**C-2.9**  
34 OF 58

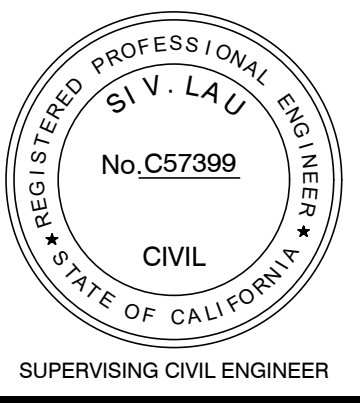
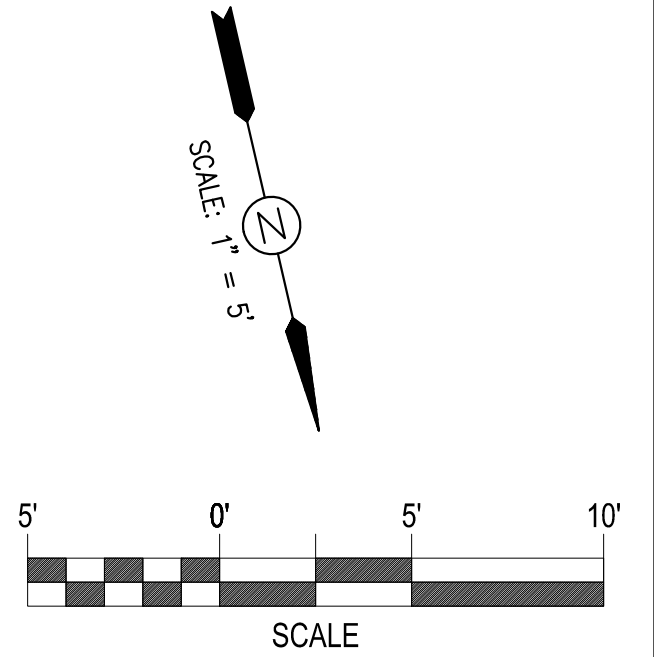
DRAWING NAME: P:\Great Sheets Delivery\PROJECTS\CS\11.ACTIVE\1004836 - Lakeside Family Streets (B)2.DESIGN\1004836 - CA02\_Sheets\C2.9.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93



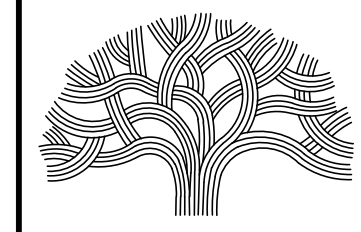


**NOTES:**

- SEE DETAIL FOR TYPICAL CROSS SECTION (C) C-5.2



**LAKESIDE FAMILY STREETS**



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250 FRANK H. OGAWA PLAZA, SUITE 4314 • OAKLAND CA, 94612  
(510) 238-3437 • FAX: (510) 238-7227

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SU/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

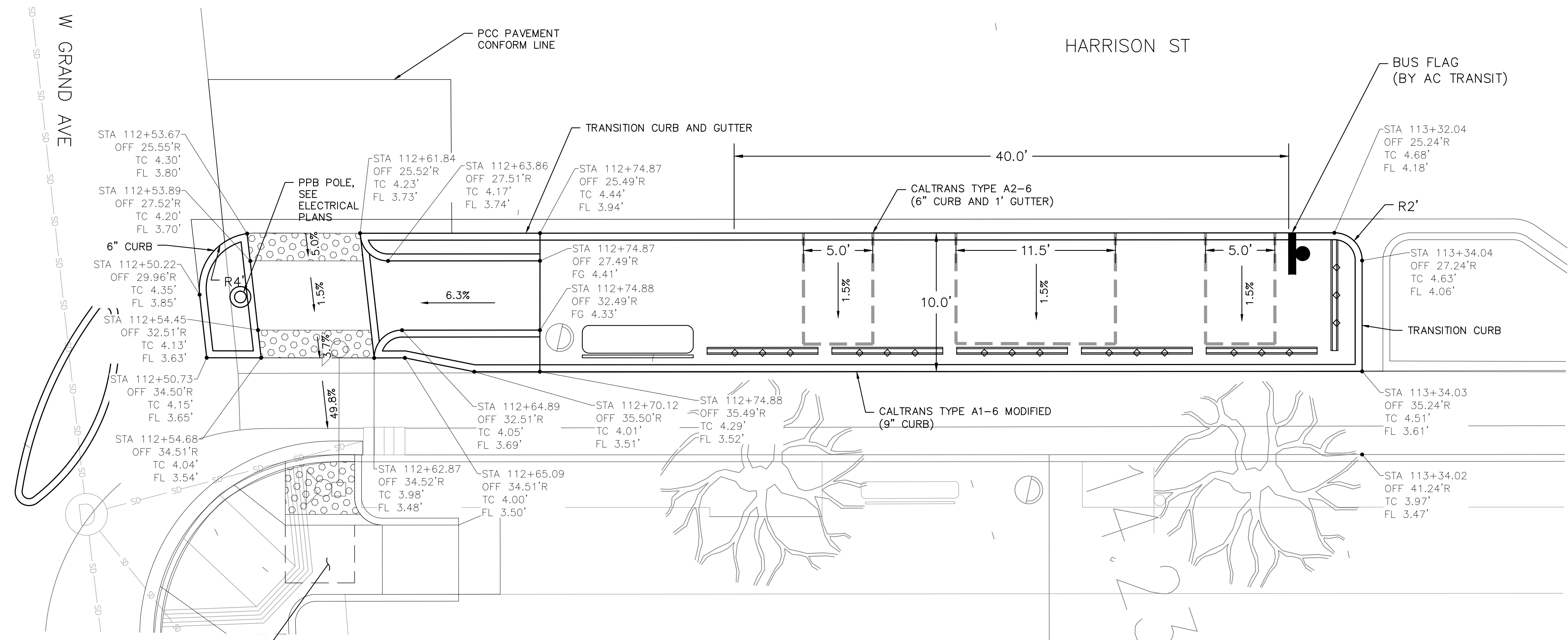
**CONSTRUCTION PLANS:**

BUS BOARDING ISLAND DETAIL  
SHEET 1 OF 2

PROJECT NO. <b>1004836</b>	
SCALE: 1" = 5'	SHEET NO. <b>C-3.1</b>
DATE: 10/25/2023	<b>35</b> OF <b>58</b>

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CSD/1. ACTIVE/1004836 - Lakeside Family Streets (E)2. DESIGN/0. CADD/2. SHEET/C3.1.dwg  
PLOT DATE: 11-13-23  
PLOTTED BY: wang99



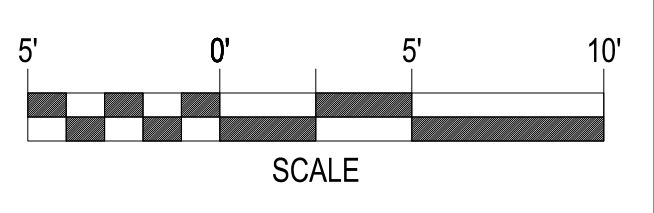
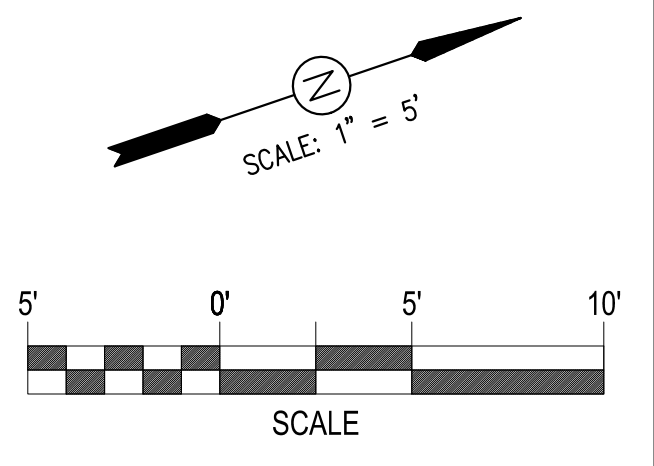


- LEGEND:**
- ACCESSIBLE LOADING/ DOOR ZONES FOR BUSES
  - ◆ LEAN RAILS, SEE (B) C-5.3
  - ▭ BENCH, SEE (A) C-5.3
  - RELOCATED TRASH RECEPTACLE

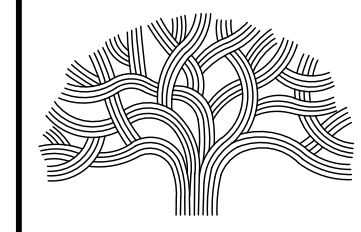
- NOTES:**
1. SEE DETAIL FOR TYPICAL CROSS SECTION (A) C-5.2

(B) C-4.2 SEE CURB RAMP DETAILS

(A) BUS BOARDING ISLAND DETAIL - NB @ HARRISON ST  
 C-3.2 SCALE: 1"=5'



LAKESIDE FAMILY STREETS



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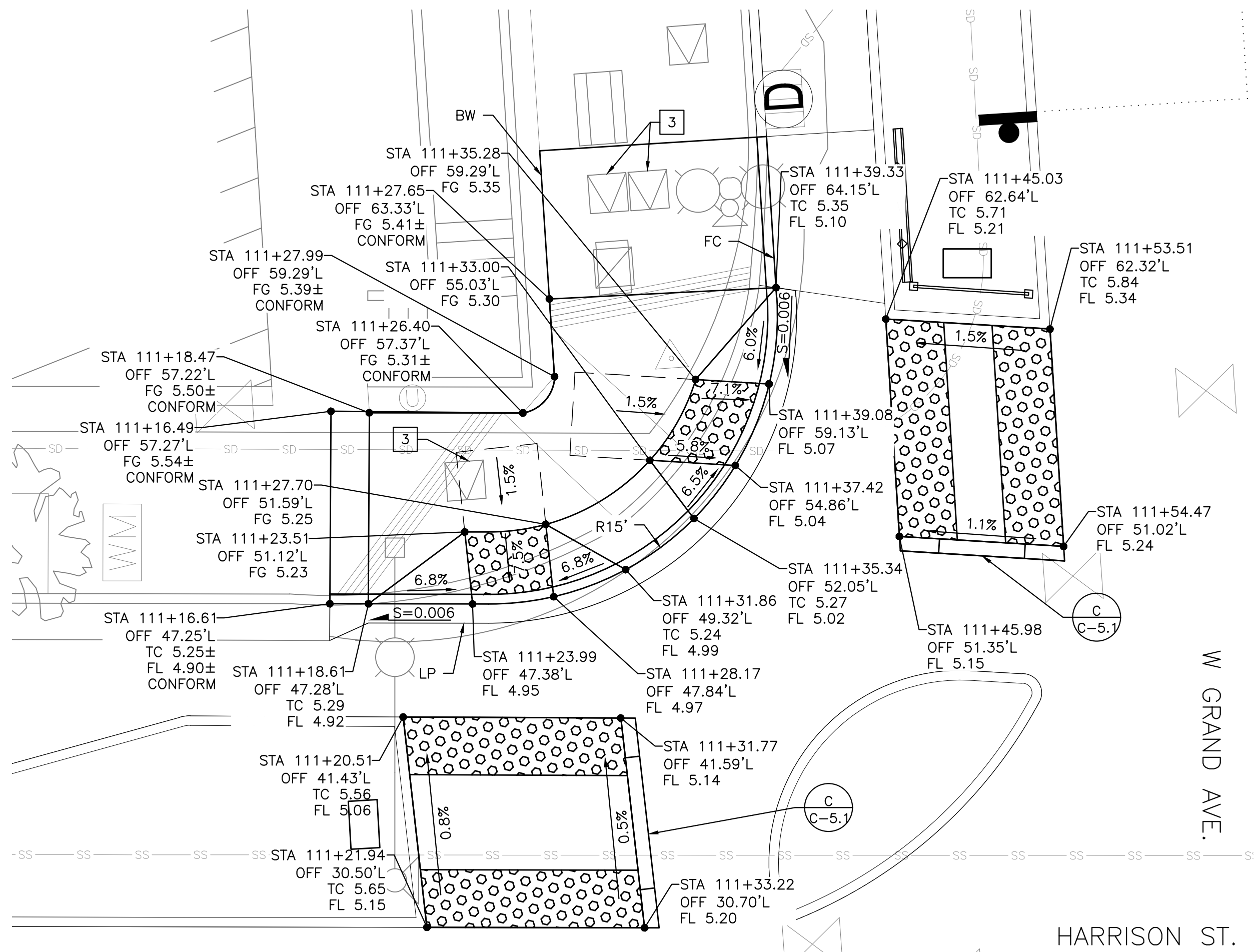
CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**  
 BUS BOARDING ISLAND DETAIL  
 SHEET 2 OF 2

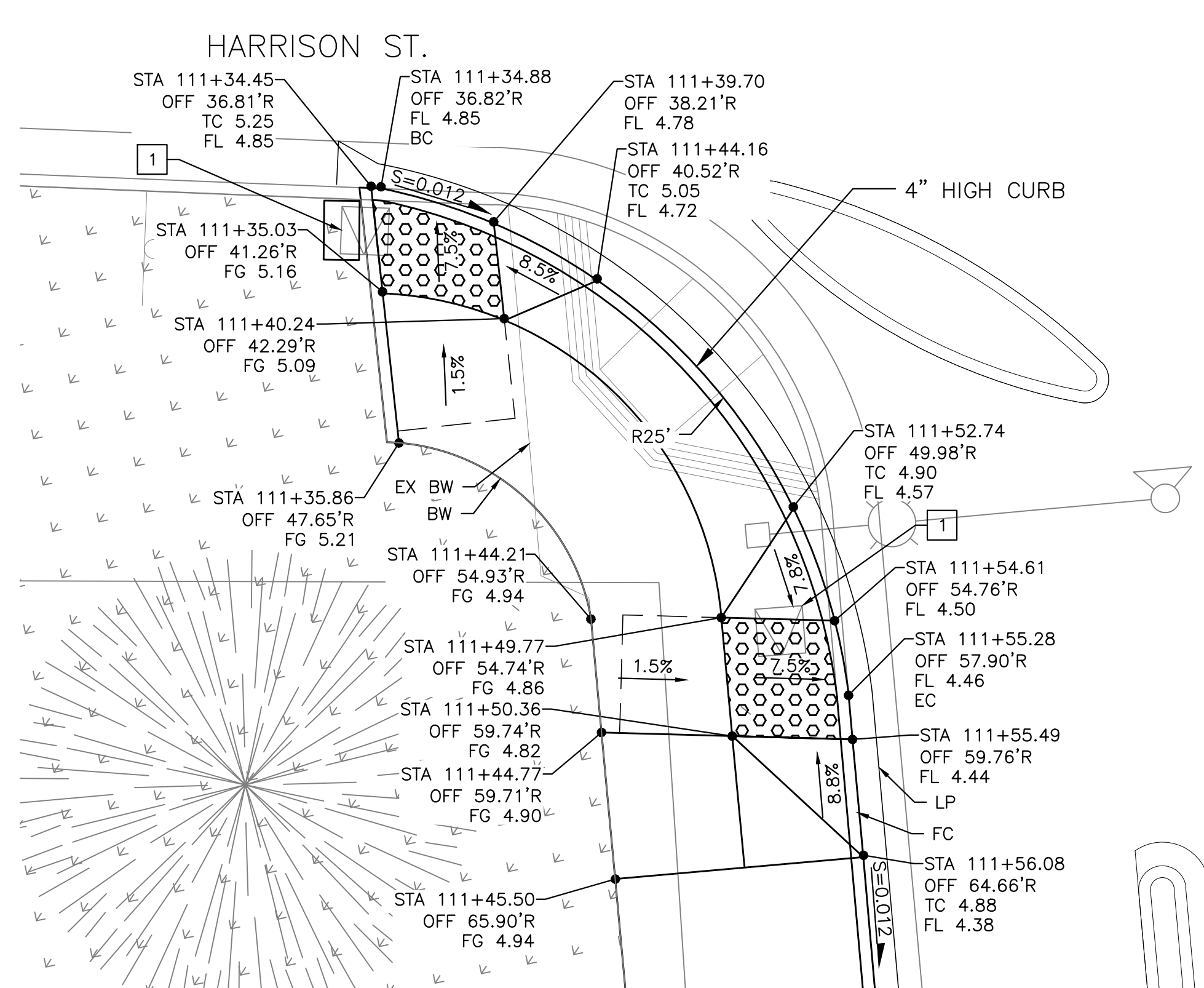
PROJECT NO. <b>1004836</b>	
SCALE: 1" = 5'	SHEET NO. <b>C-3.2</b>
DATE: 10/25/2023	<b>36</b> OF <b>58</b>

DRAWING NAME: Lakeside/Family Streets Delivery PROJECTS/CSD1, ACTIVE/1004836 - Lakeside Family Streets (S)2, DESIGN/0, CADD/2, SHEET/C-3.2.dwg  
 PLOT DATE: 11-09-23  
 PLOTTED BY: wang93

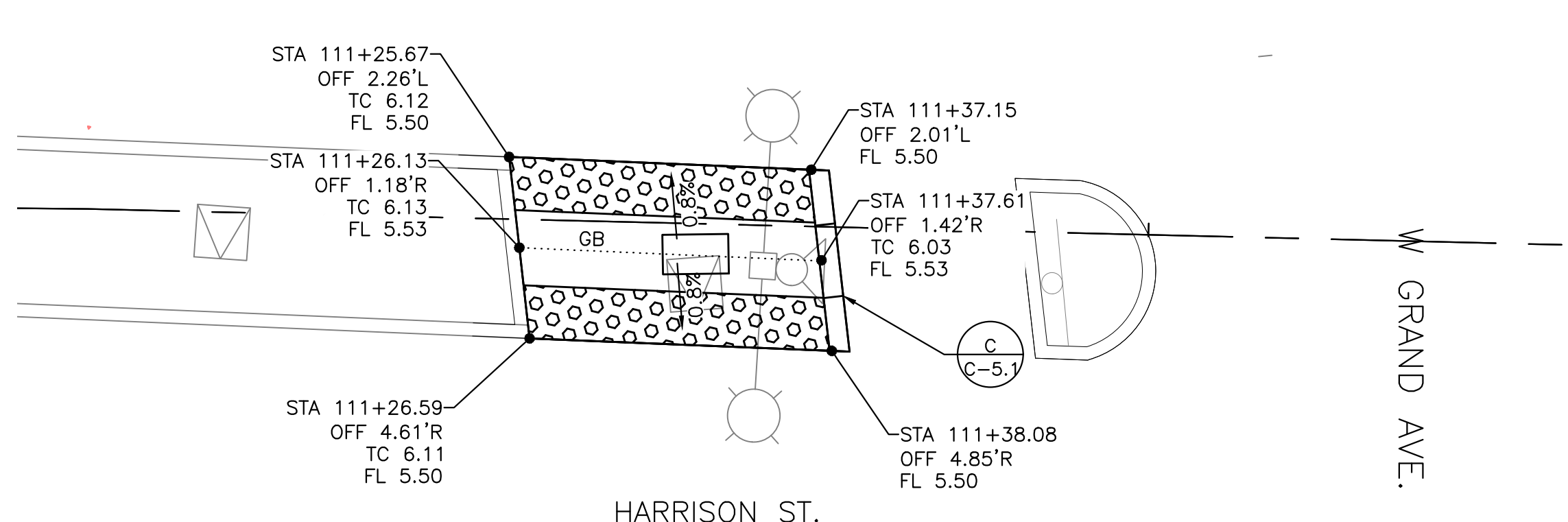




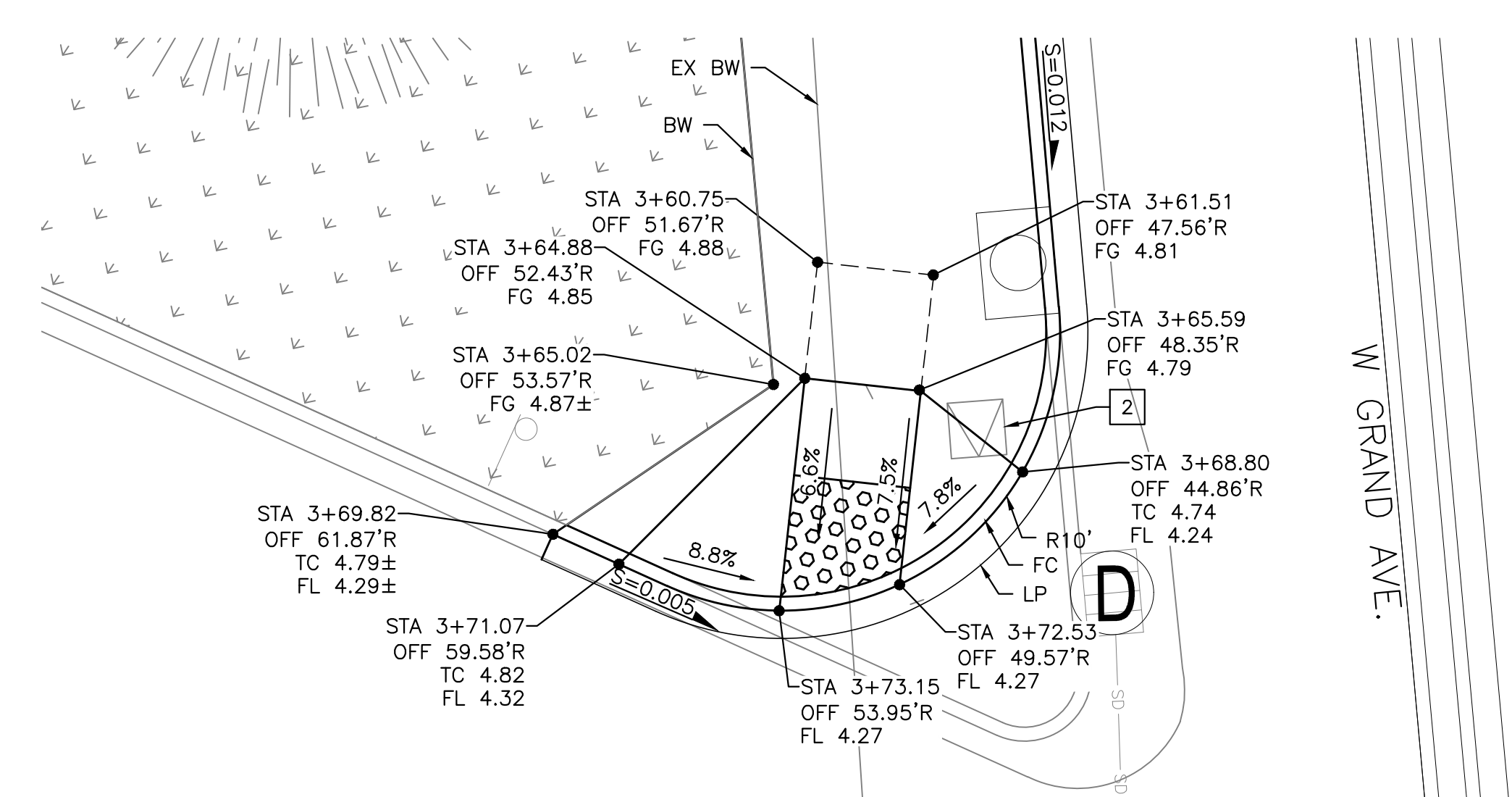
**A** CURB RAMP AND PED REFUGE ISLAND DETAIL – SW CORNER HARRISON ST/W GRAND AVE  
C-4.1 SCALE: 1"=5'



**C** CURB RAMP DETAIL – SE CORNER HARRISON ST/W GRAND AVE  
C-4.1 SCALE: 1"=5'



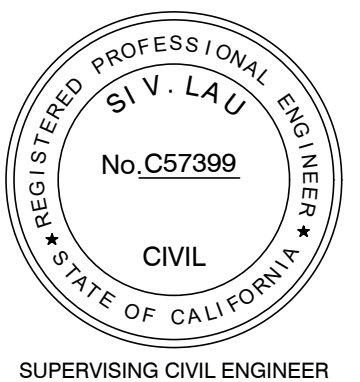
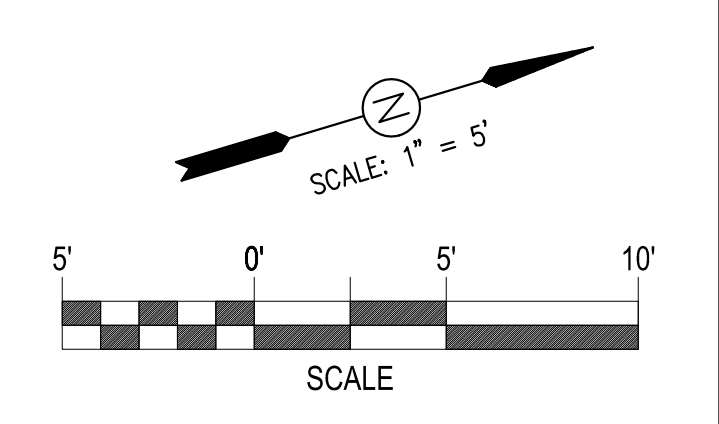
**B** PED REFUGE ISLAND DETAIL – S MEDIAN HARRISON ST/W GRAND AVE  
C-4.1 SCALE: 1"=5'



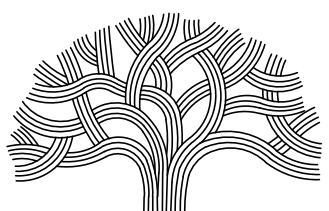
**D** CURB RAMP DETAIL – SE CORNER HARRISON ST/W GRAND AVE  
C-4.1 SCALE: 1"=5'

- GENERAL NOTES:**
- SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS AND MODIFICATIONS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.

- CONSTRUCTION NOTES:**
- RELOCATE (EX) NO. 6 CITY PULLBOX
  - RELOCATE (EX) NO. 5 CITY PULLBOX
  - ADJUST CITY PULLBOX TO FINISH GRADE



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

**CONSTRUCTION PLANS:**

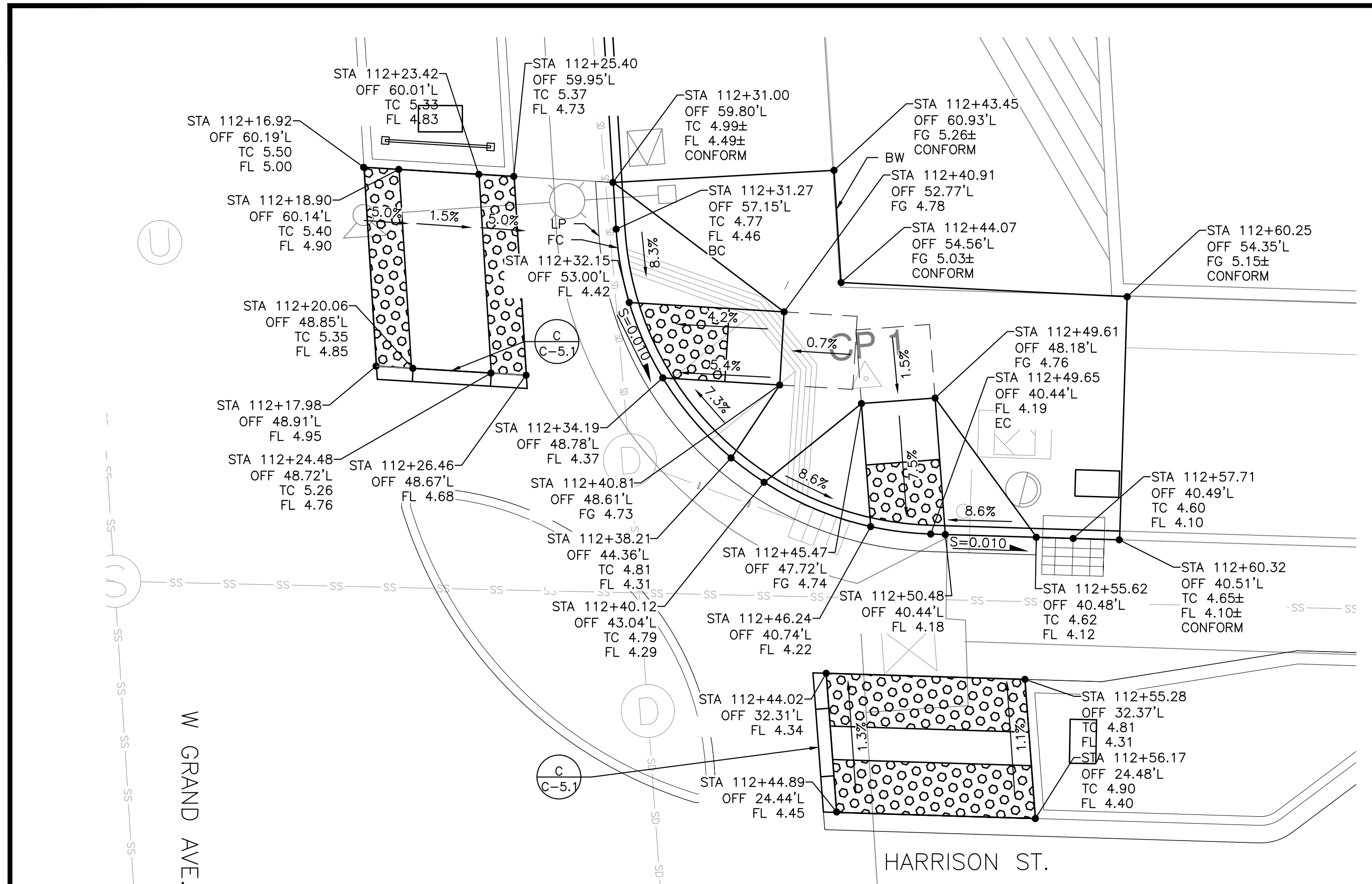
CURB RAMP DETAILS  
SHEET 1 OF 4

PROJECT NO.  
**1004836**

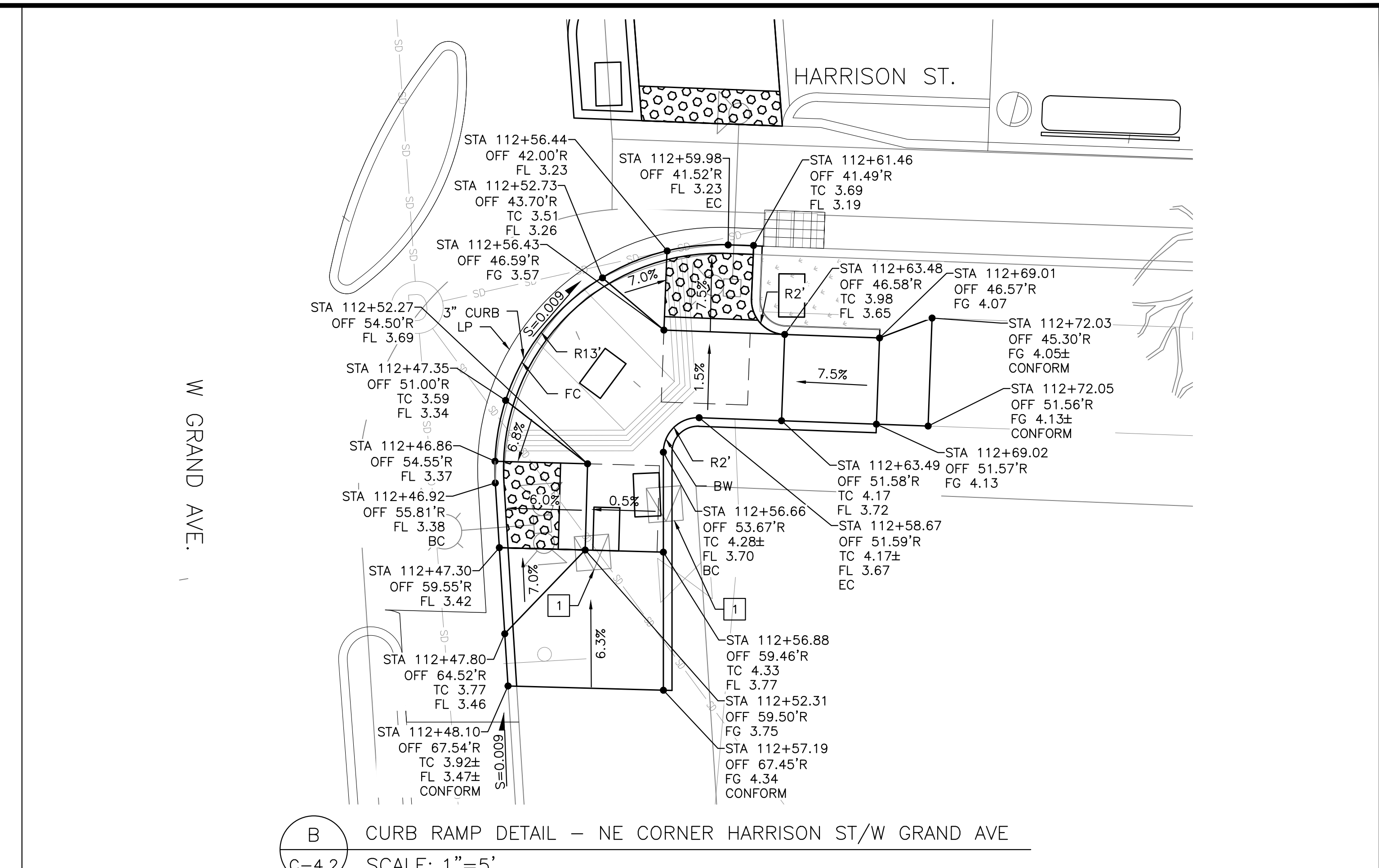
SCALE: AS SHOWN  
DATE: 10/25/2023  
SHEET NO. **C-4.1**  
37 OF 58

DRAWING NAME: \\lakeland\cadd\Great Streets Delivery\PROJECTS\CSD\ACTIVE\1004836 - Lakeside Family Streets (ES)2 - DESIGN\0 - CAD\2 - SheetC-4.1.dwg  
PLOT DATE: 11-13-23  
PLOTTED BY: wang99

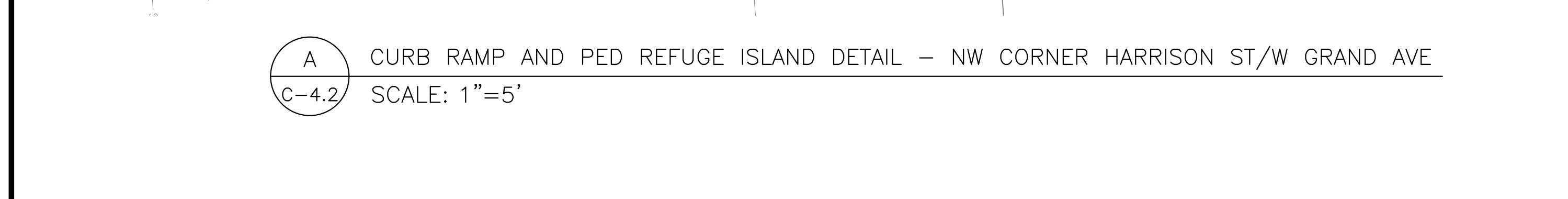




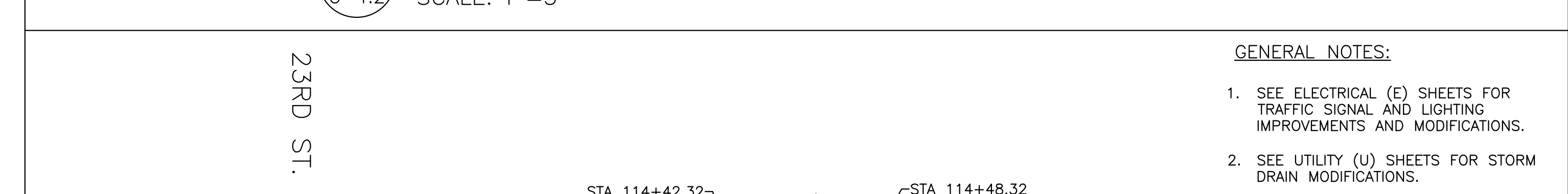
**A** CURB RAMP AND PED REFUGE ISLAND DETAIL – NW CORNER HARRISON ST/W GRAND AVE  
 C-4.2 SCALE: 1"=5'



**B** CURB RAMP DETAIL – NE CORNER HARRISON ST/W GRAND AVE  
 C-4.2 SCALE: 1"=5'



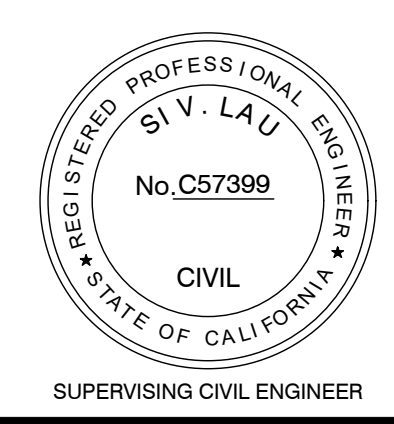
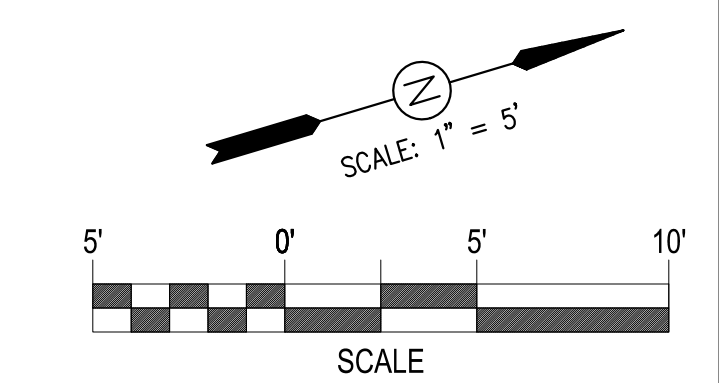
**C** PED REFUGE ISLAND DETAIL – N MEDIAN HARRISON ST/W GRAND AVE  
 C-4.2 SCALE: 1"=5'



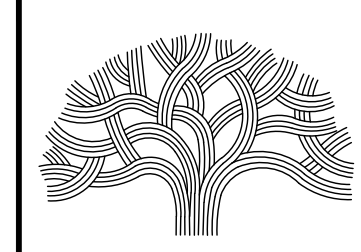
**D** PED REFUGE ISLAND DETAIL – N MEDIAN HARRISON ST/23RD ST  
 C-4.2 SCALE: 1"=5'

- GENERAL NOTES:**
- SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS AND MODIFICATIONS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.

- CONSTRUCTION NOTES:**
- RELOCATE (EX) NO. 6 CITY PULLBOX
  - RELOCATE (EX) NO. 5 CITY PULLBOX
  - ADJUST CITY PULLBOX TO FINISH GRADE



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

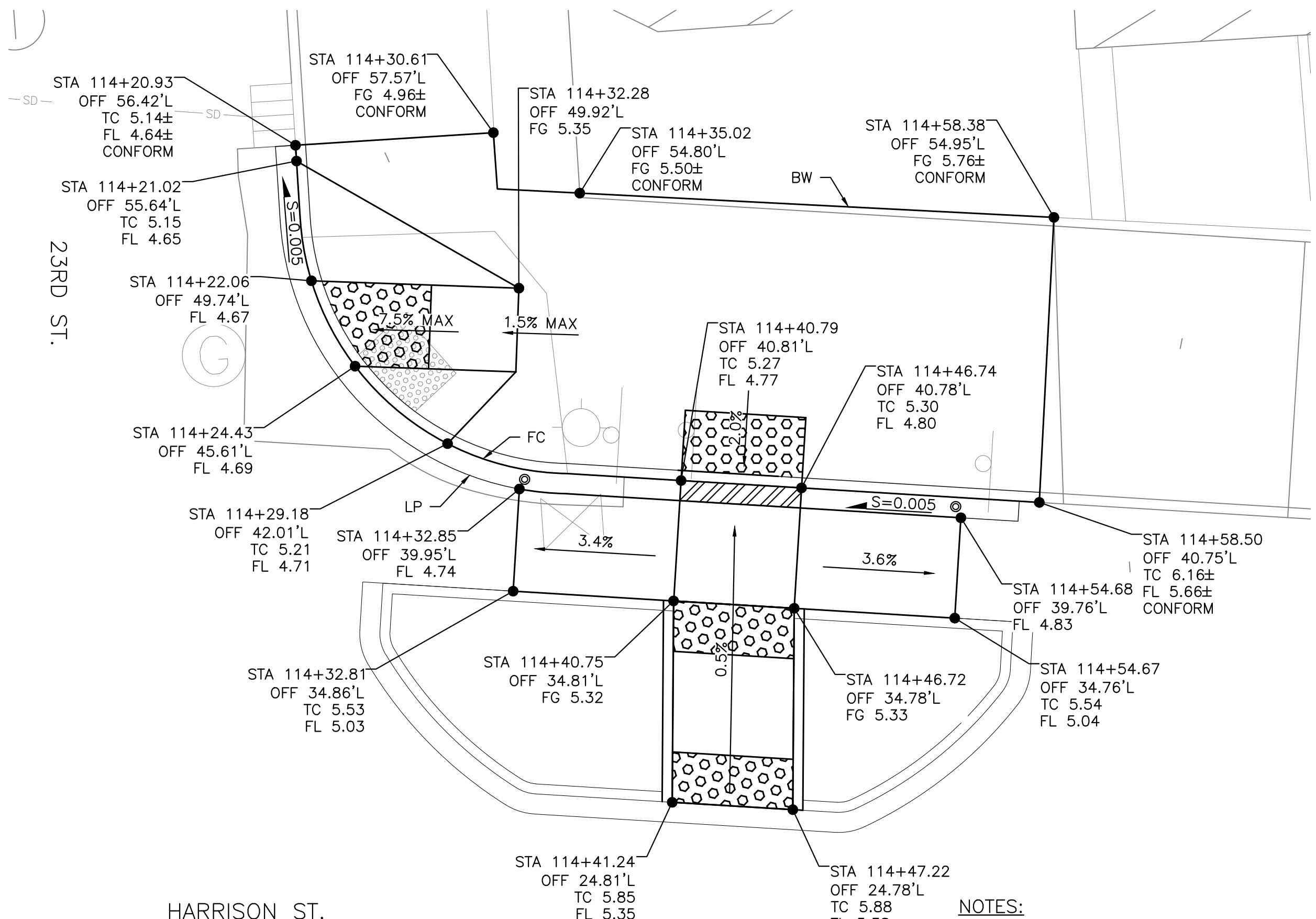
**CONSTRUCTION PLANS:**

CURB RAMP DETAILS  
 SHEET 2 OF 4

PROJECT NO.	
<b>1004836</b>	
SCALE:	SHEET NO.
1" = 5'	<b>C-4.2</b>
DATE:	<b>38 OF 58</b>
10/25/2023	

DRAWING NAME: Lakeside Family Streets Delivery PROJECT/CS/CD/1, ACTIVE/1004836 - Lakeside Family Streets (S)2, DESIGN/0, CADD, Sheet/C-4.2.dwg  
 PLOT DATE: 11/09/23  
 PLOTTED BY: wang99





HARRISON ST.

**A** CURB RAMP DETAIL – NW CORNER HARRISON ST/23RD ST  
**C-4.3** SCALE: 1"=5'

**NOTES:**  
 1. SEE DETAIL FOR TYPICAL CROSS SECTION. **D**  
**C-5.2**

**GENERAL NOTES:**

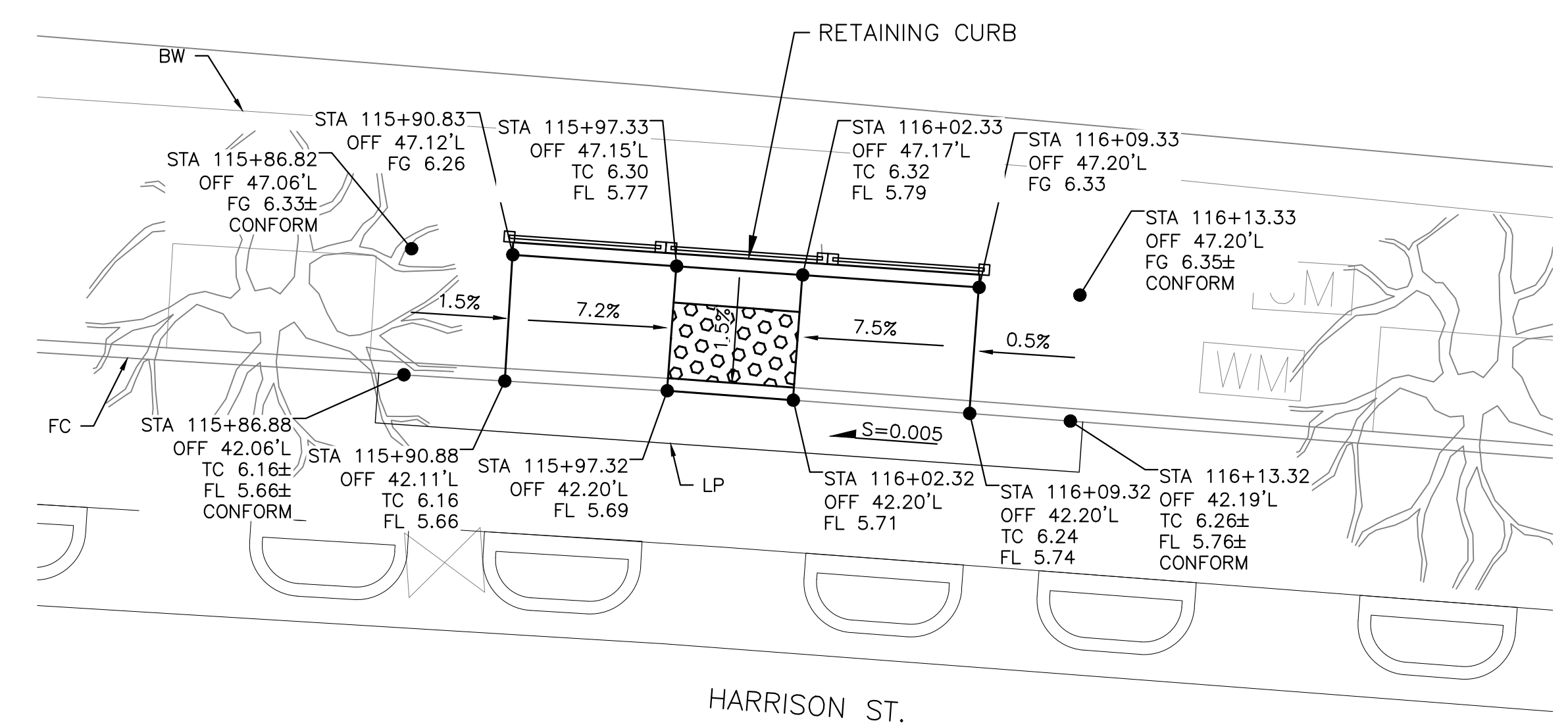
- SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS AND MODIFICATIONS.
- SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.

**CONSTRUCTION NOTES:**

- RELOCATE (EX) NO. 6 CITY PULLBOX
- RELOCATE (EX) NO. 5 CITY PULLBOX
- ADJUST CITY PULLBOX TO FINISH GRADE

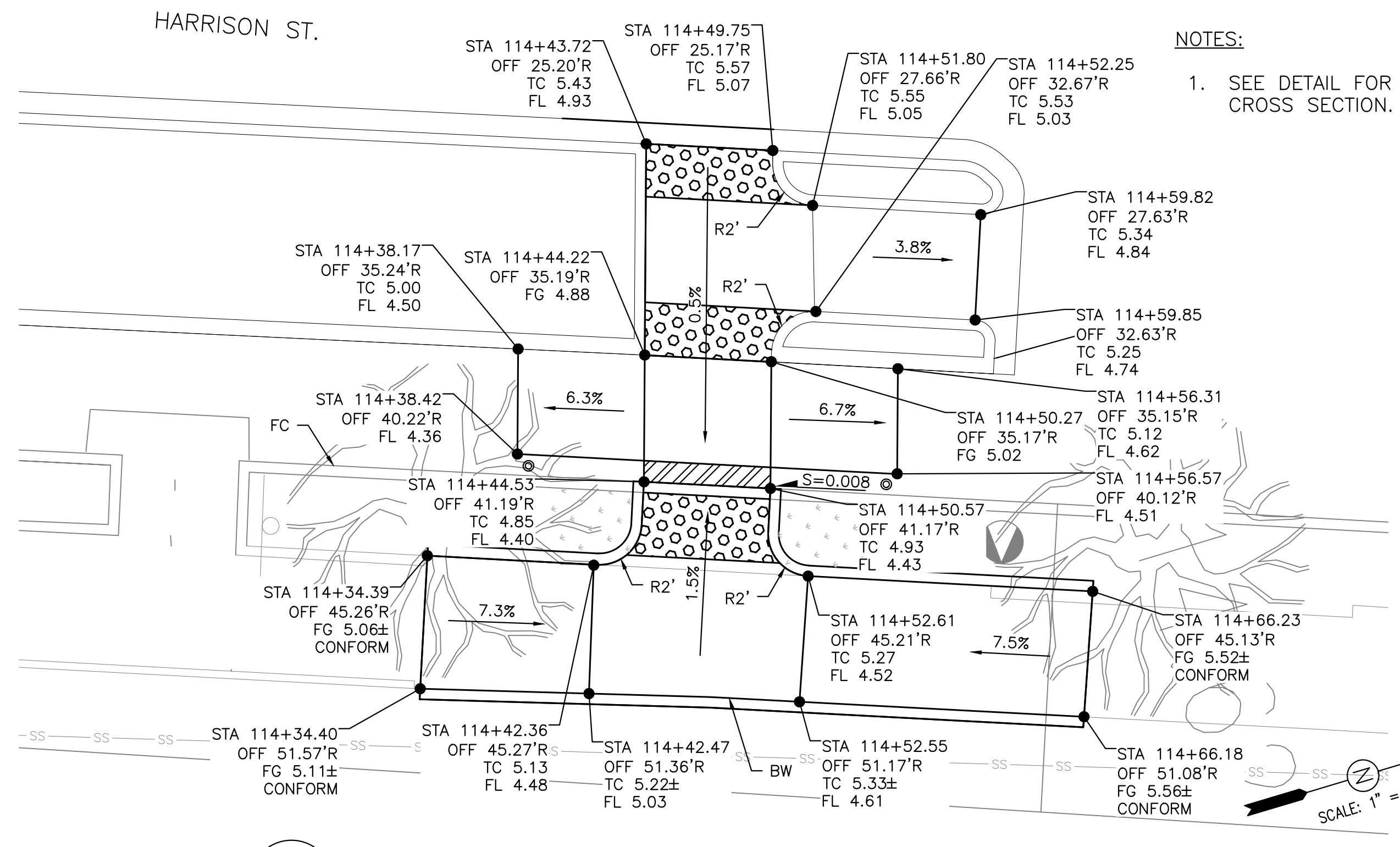
**LEGEND:**

- METAL RAIL PER CITY OF OAKLAND DETAIL M-1
- FLEXIBLE DELINEATOR
- 6' X 1' METAL PLATE **C**  
**C-5.3**



HARRISON ST.

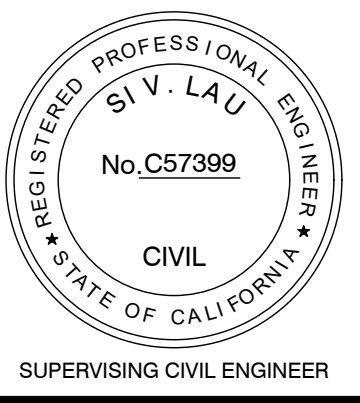
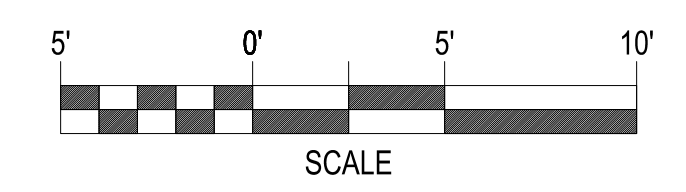
**B** CURB RAMP DETAIL – MID BLOCK HARRISON ST  
**C-4.3** SCALE: 1"=5'



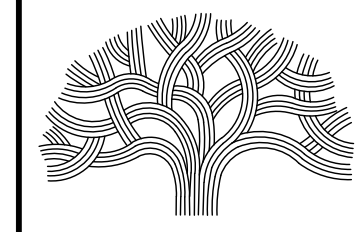
HARRISON ST.

**C** CURB RAMP DETAIL – MID-BLOCK HARRISON ST  
**C-4.3** SCALE: 1"=5'

**NOTES:**  
 1. SEE DETAIL FOR TYPICAL CROSS SECTION. **D**  
**C-5.2**



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:

CURB RAMP DETAILS  
 SHEET 3 OF 4

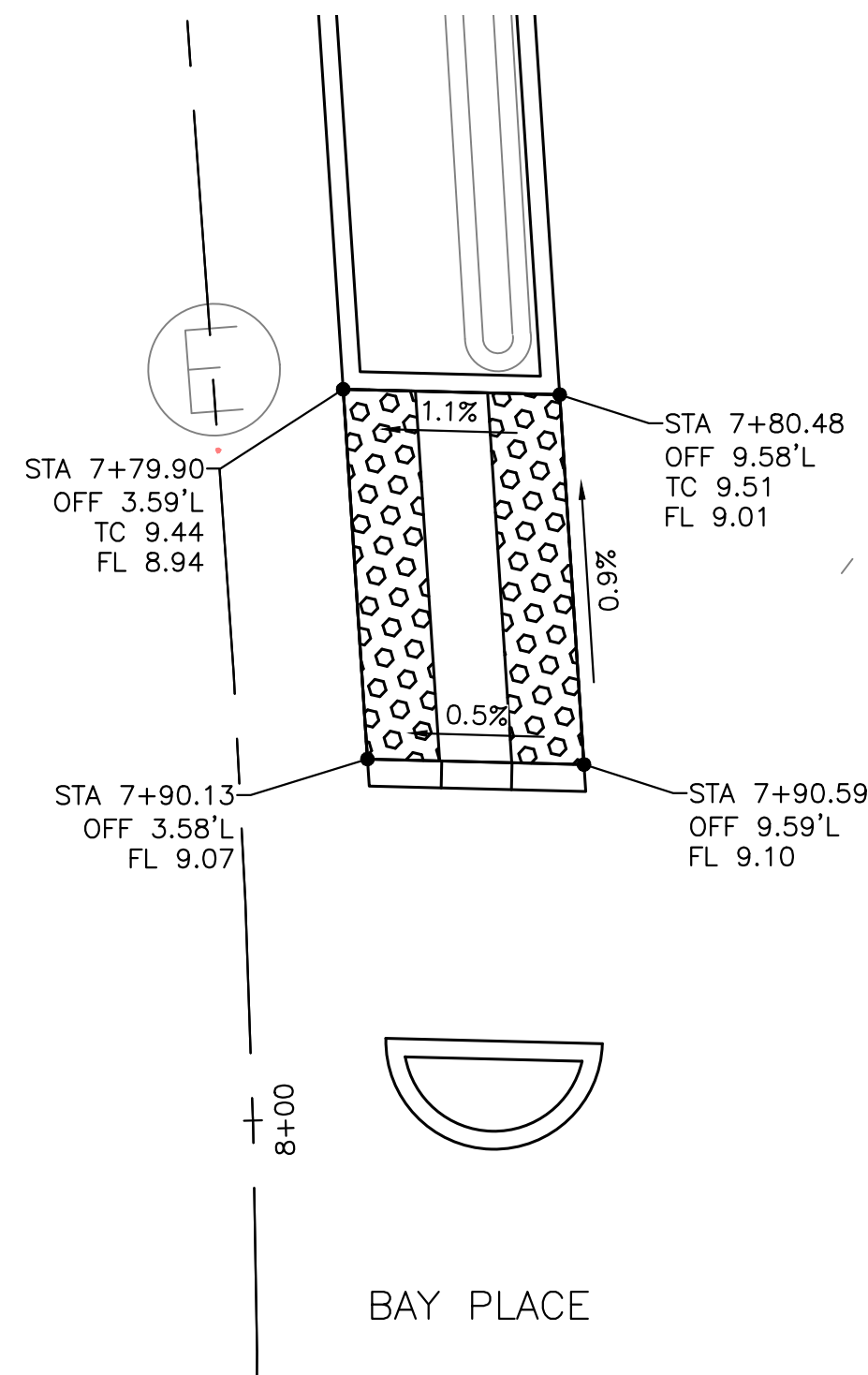
PROJECT NO.  
**1004836**

SCALE: 1"=5'  
 DATE: 10/25/2023  
 SHEET NO. **C-4.3**  
 39 OF 58

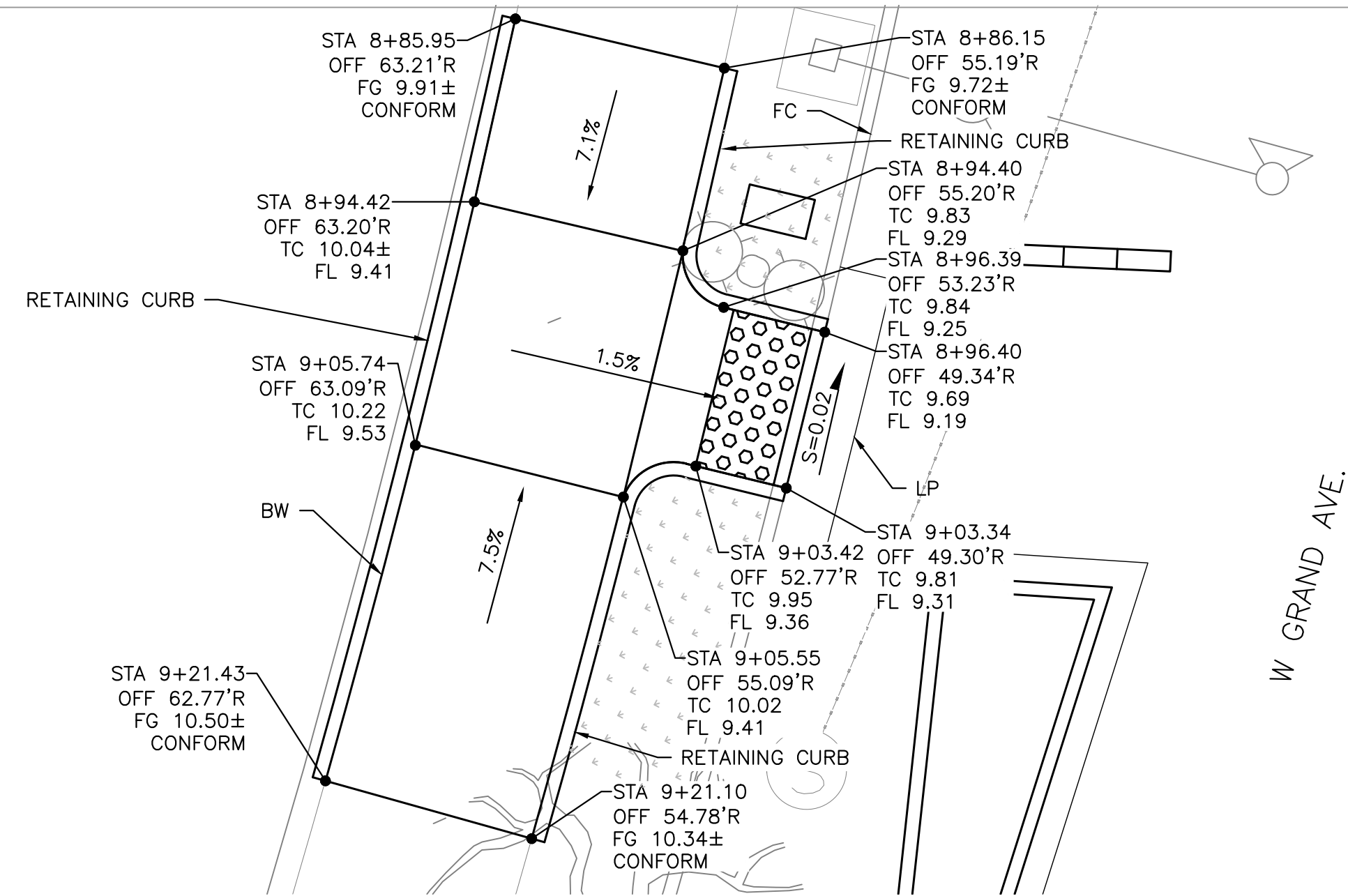
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 PLOT DATE: 11-09-23  
 PLOTTED BY: wang99



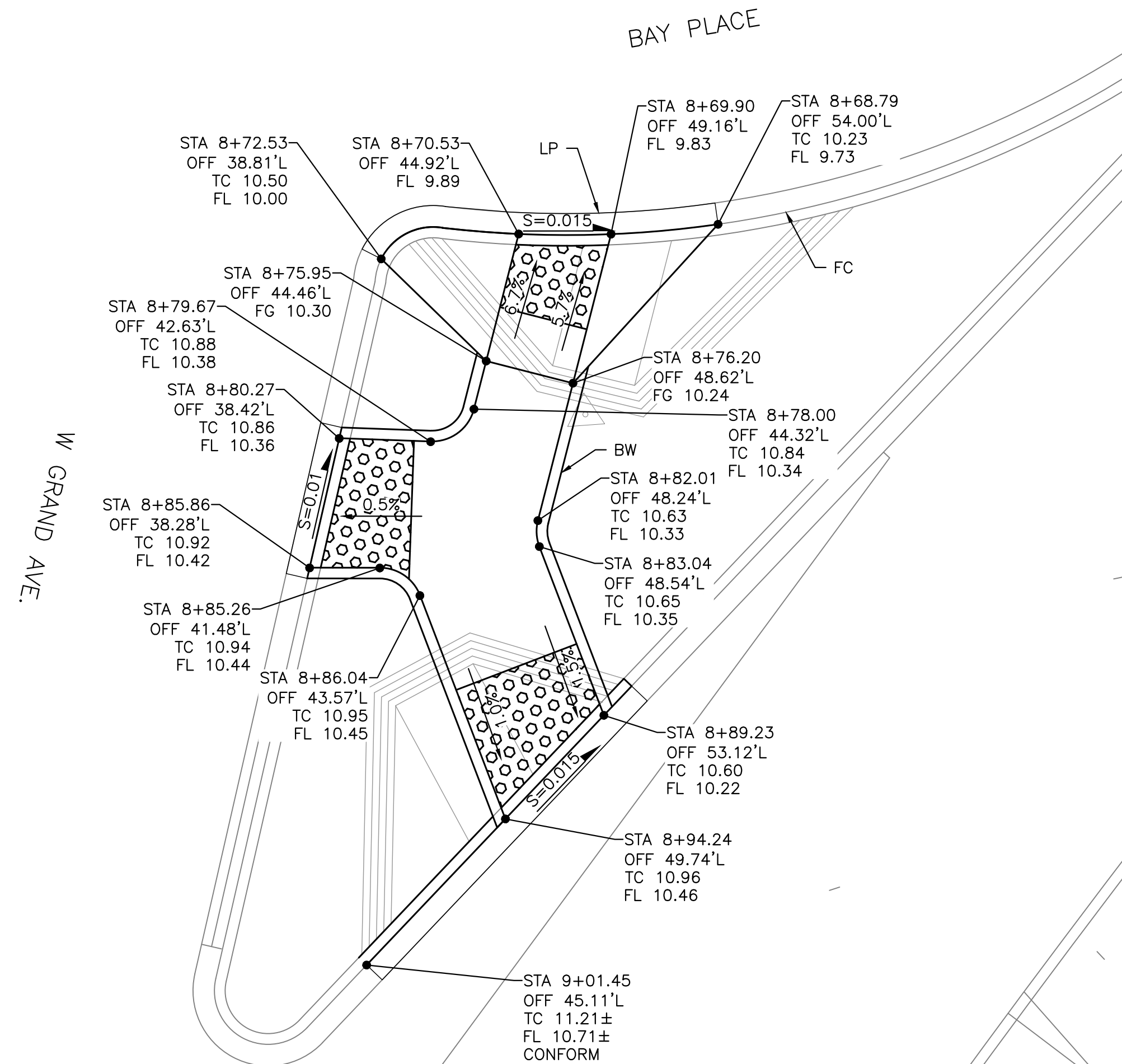
W GRAND AVE.



**A** CURB RAMP DETAIL – W MEDIAN W GRAND AVE/BAY PLACE  
C-4.4 SCALE: 1"=5'



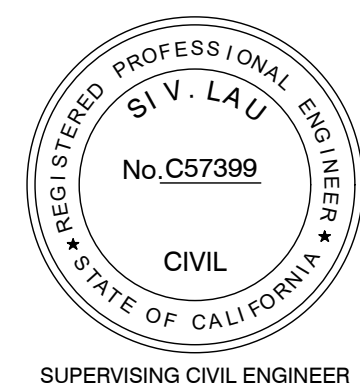
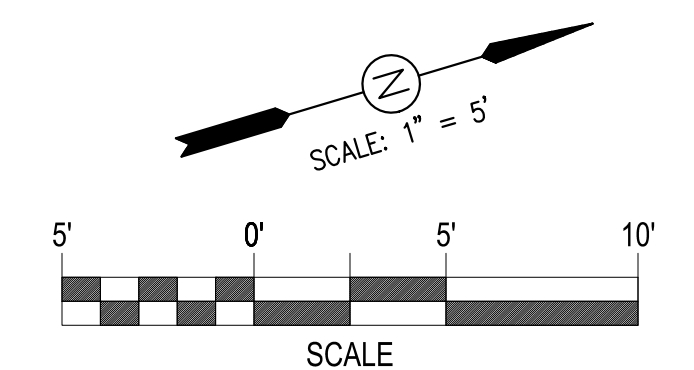
**B** CURB RAMP DETAIL – SE CORNER W GRAND AVE/BAY PLACE  
C-4.4 SCALE: 1"=5'



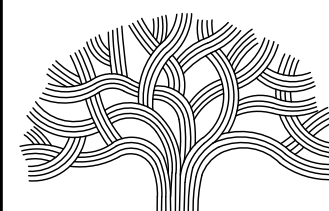
**C** CURB RAMP DETAIL – NE ISLAND W GRAND AVE/BAY PLACE  
C-4.4 SCALE: 1"=5'

- GENERAL NOTES:**
- SEE ELECTRICAL (E) SHEETS FOR TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS AND MODIFICATIONS.
  - SEE UTILITY (U) SHEETS FOR STORM DRAIN MODIFICATIONS.

- CONSTRUCTION NOTES:**
- RELOCATE (EX) NO. 6 CITY PULLBOX
  - RELOCATE (EX) NO. 5 CITY PULLBOX
  - ADJUST CITY PULLBOX TO FINISH GRADE



LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:

CURB RAMP DETAILS  
SHEET 4 OF 4

PROJECT NO.

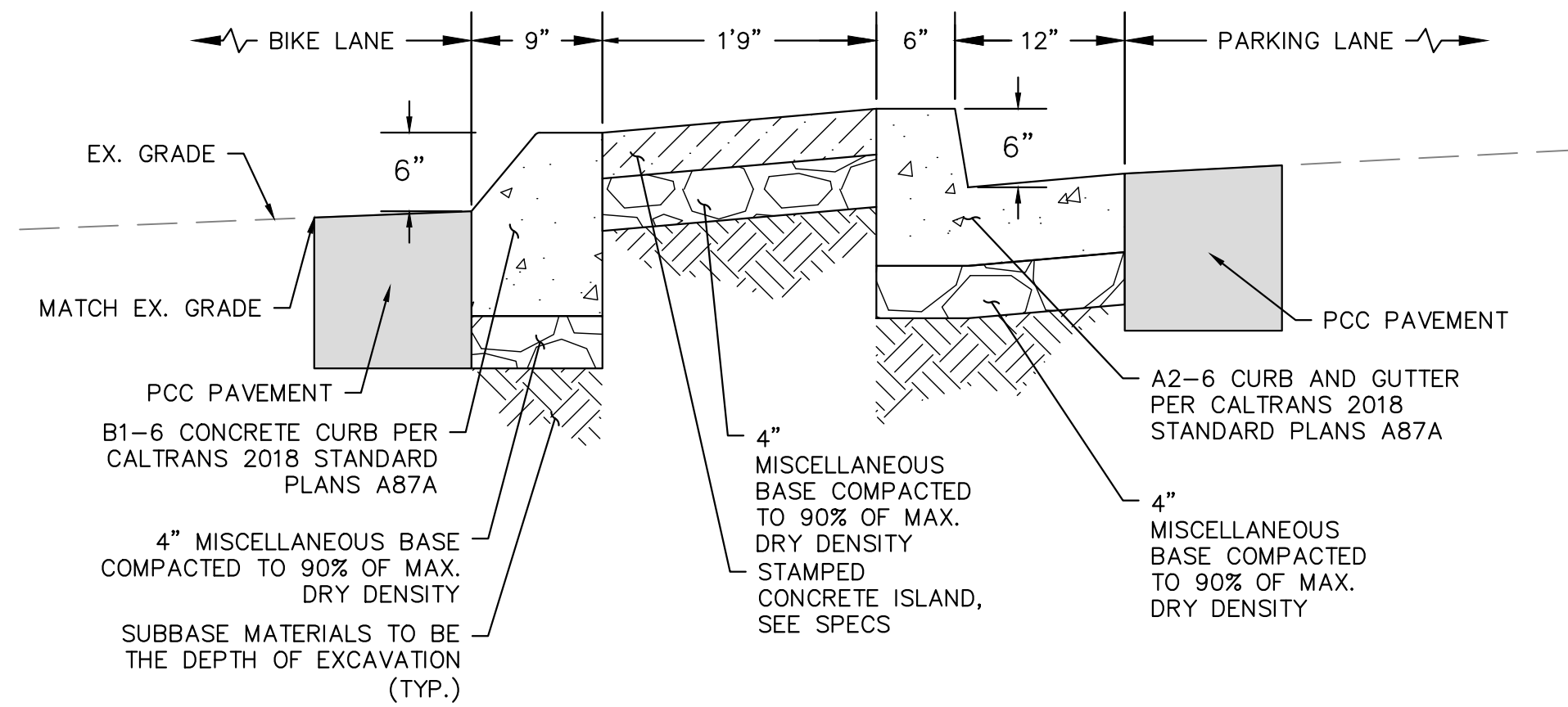
**1004836**

SCALE:  
1" = 5'  
DATE:  
10/25/2023

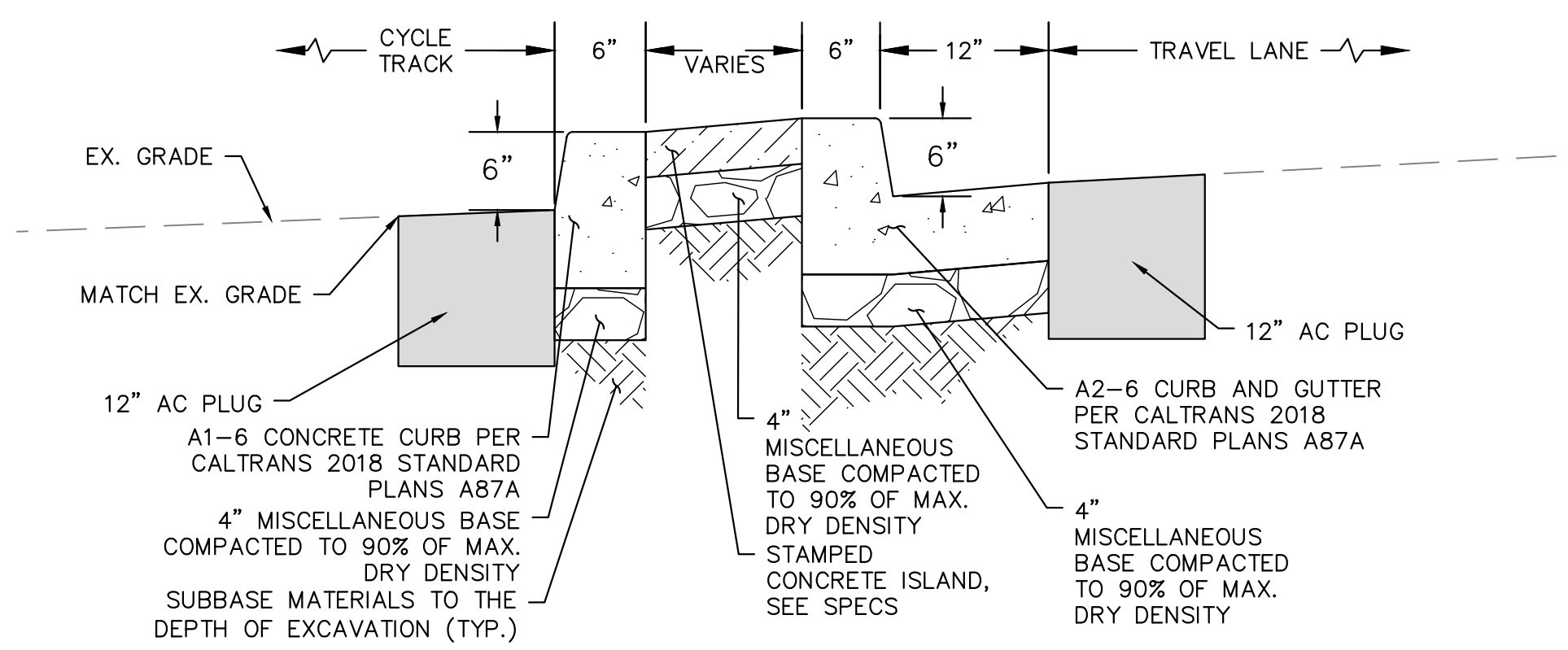
SHEET NO.  
**C-4.4**  
40 OF 58

DRAWING NAME: Lakeside/Family Streets Delivery PROJECTS/CSD1, ACTIVE/1004836 - Lakeside Family Streets (S)2, DESIGN/0, CADD, Sheet/C-4.4.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93

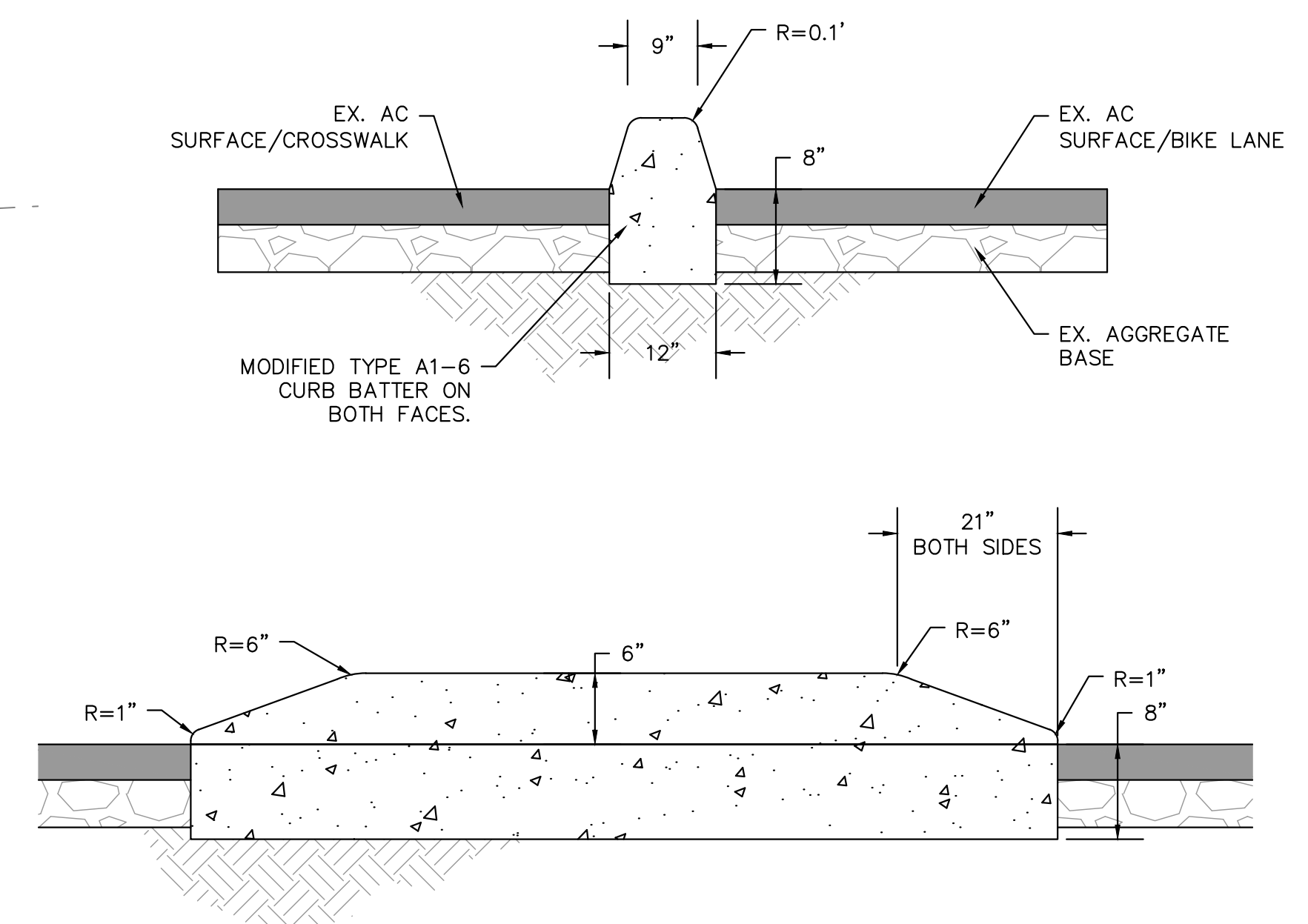




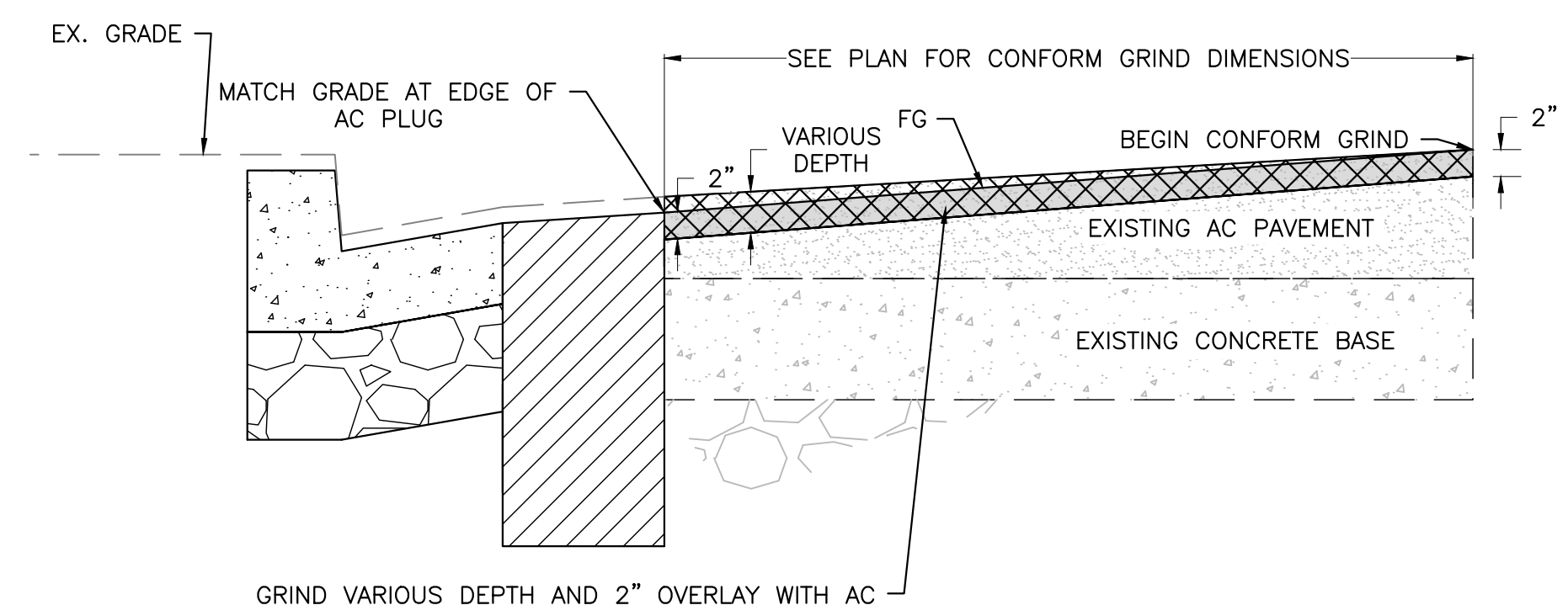
**A** PARKING ISLAND DETAIL  
C-5.1 SCALE: NTS



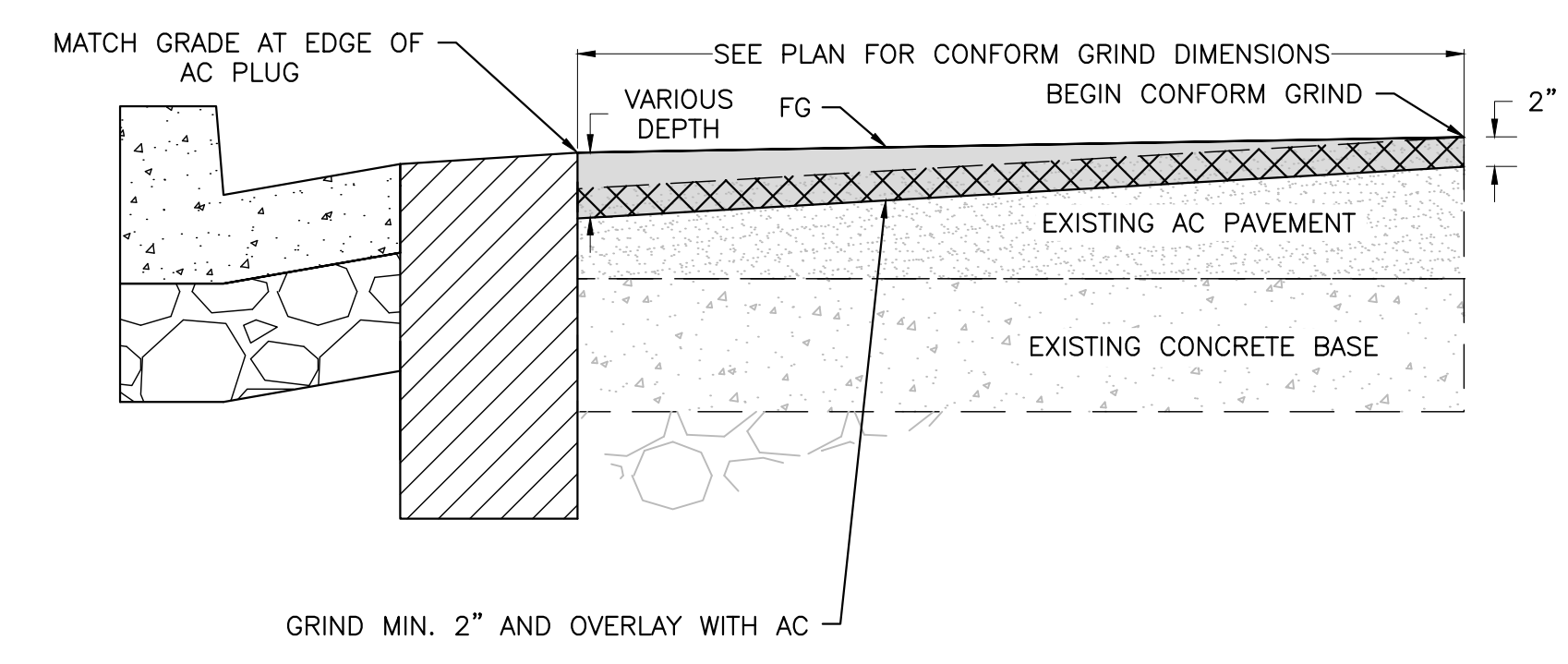
**B** CYCLE TRACK ISLAND DETAIL  
C-5.1 SCALE: NTS



**C** MODIFIED A1-6 CURB DETAIL  
C-5.1 SCALE: NTS



**DETAIL A**

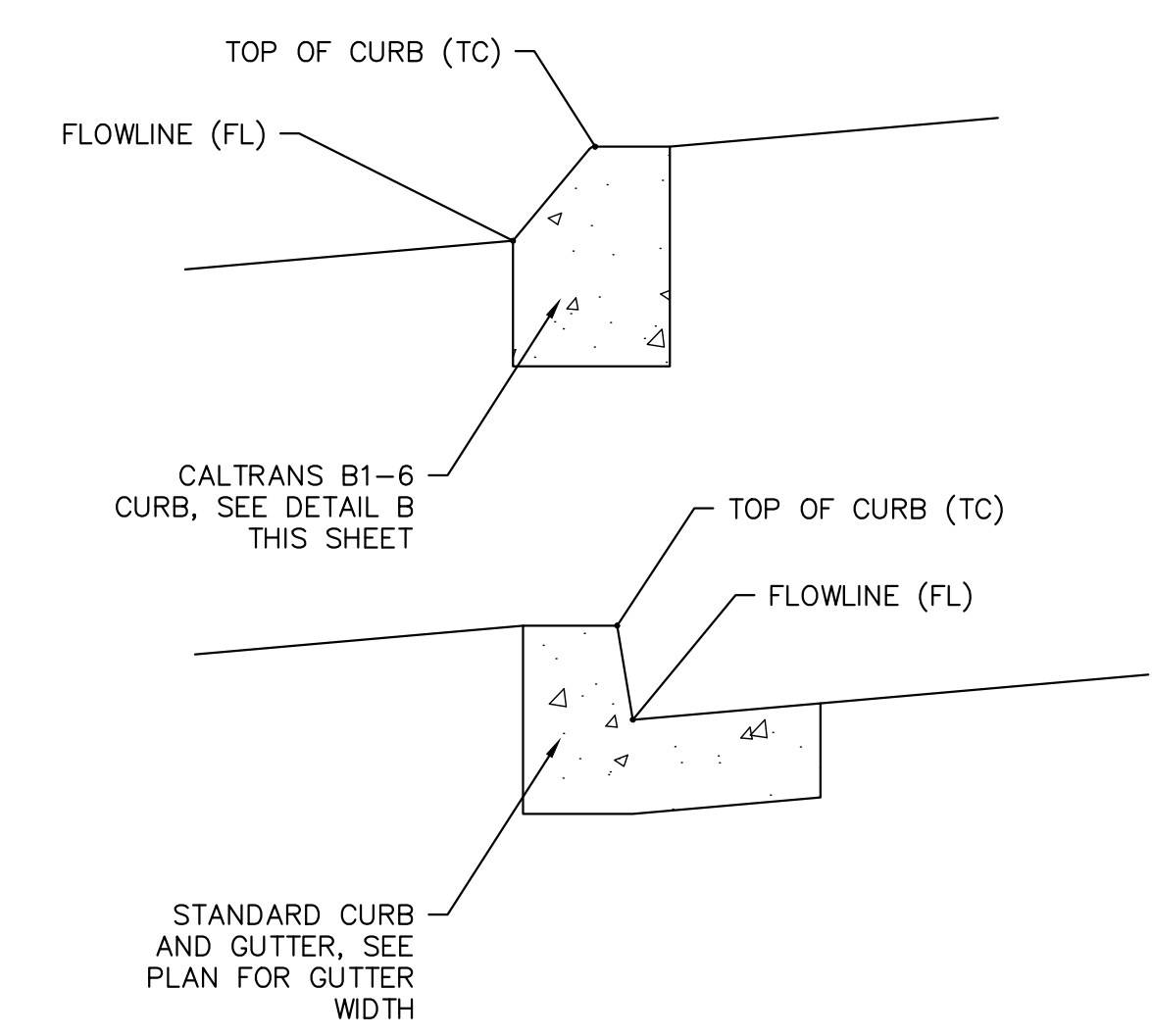


**DETAIL B**

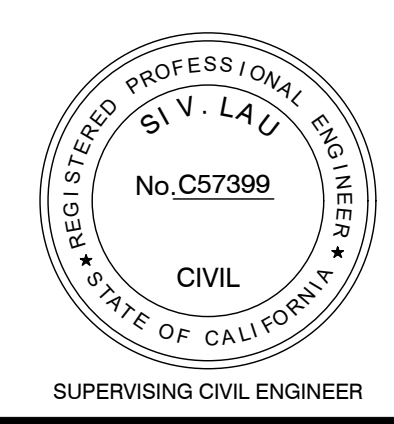
**NOTES:**

1. DETAIL A SHALL BE USED WHEN THE EXISTING GRADE IS HIGHER THAN THE FINISH GRADE.
2. DETAIL B SHALL BE USED WHEN THE EXISTING GRADE IS LOWER THAN THE FINISH GRADE.

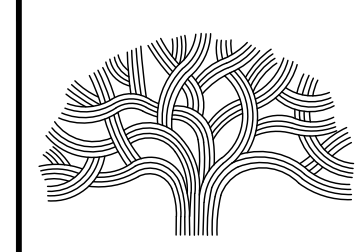
**D** CONFORM GRIND DETAIL  
C-5.1 SCALE: NTS



**E** GRADING ANNOTATION DETAIL  
C-5.1 SCALE: NTS



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

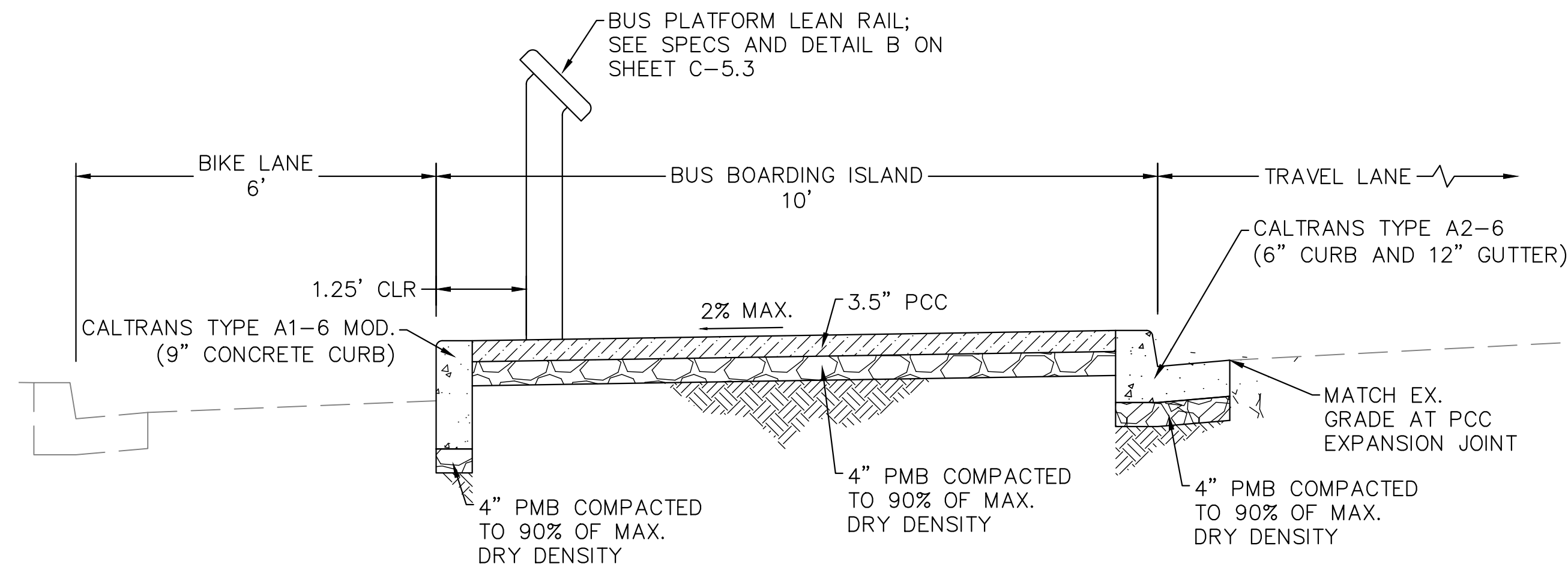
**CONSTRUCTION PLANS:**

CIVIL DETAILS  
SHEET 1 OF 3

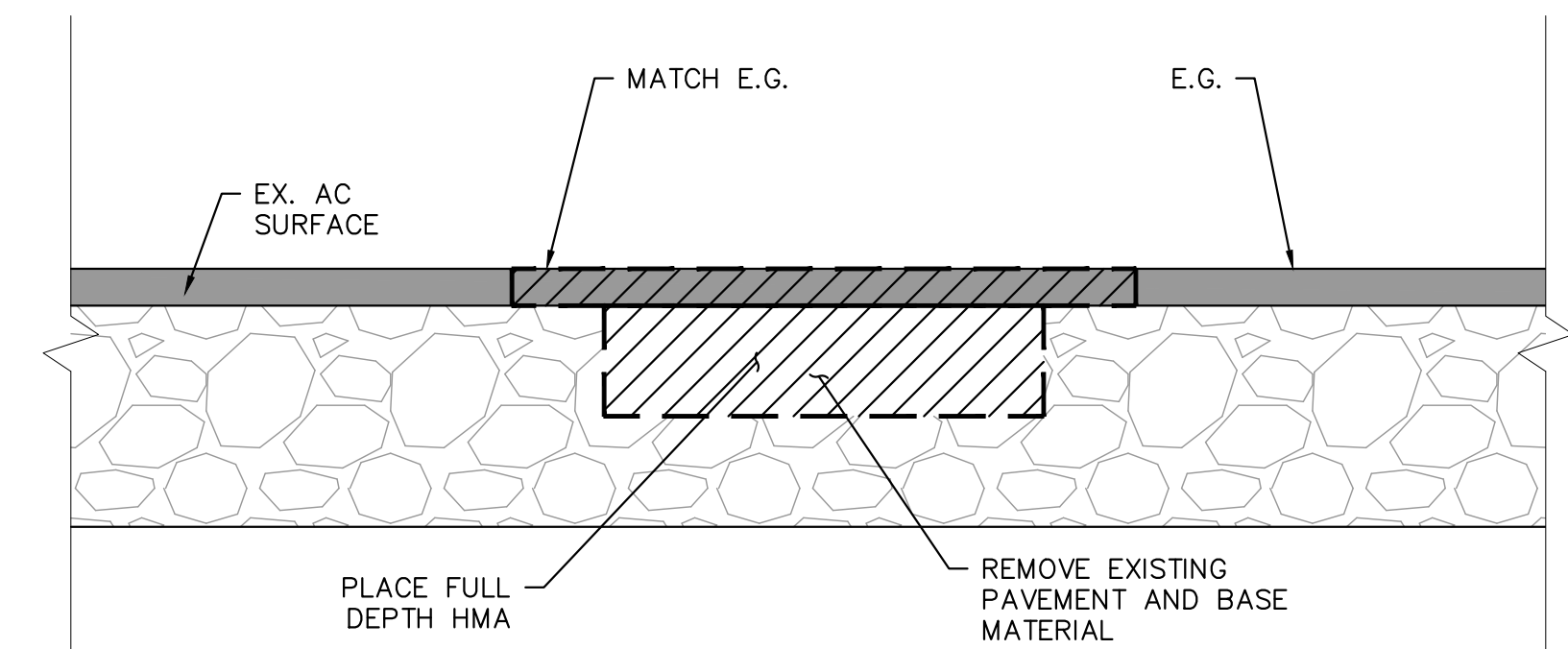
PROJECT NO.  
**1004836**

SCALE: AS SHOWN  
DATE: 10/25/2023  
SHEET NO. **C-5.1**  
41 OF 58





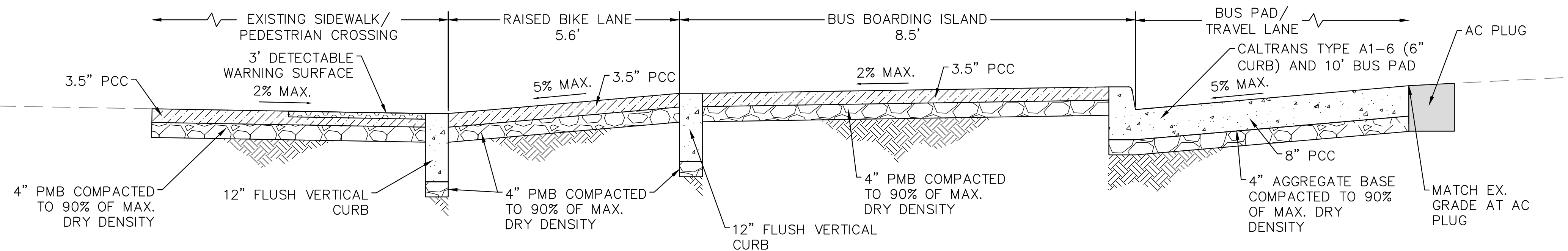
**A** BUS BOARDING ISLAND CROSS SECTION  
C-5.2 SCALE: NTS



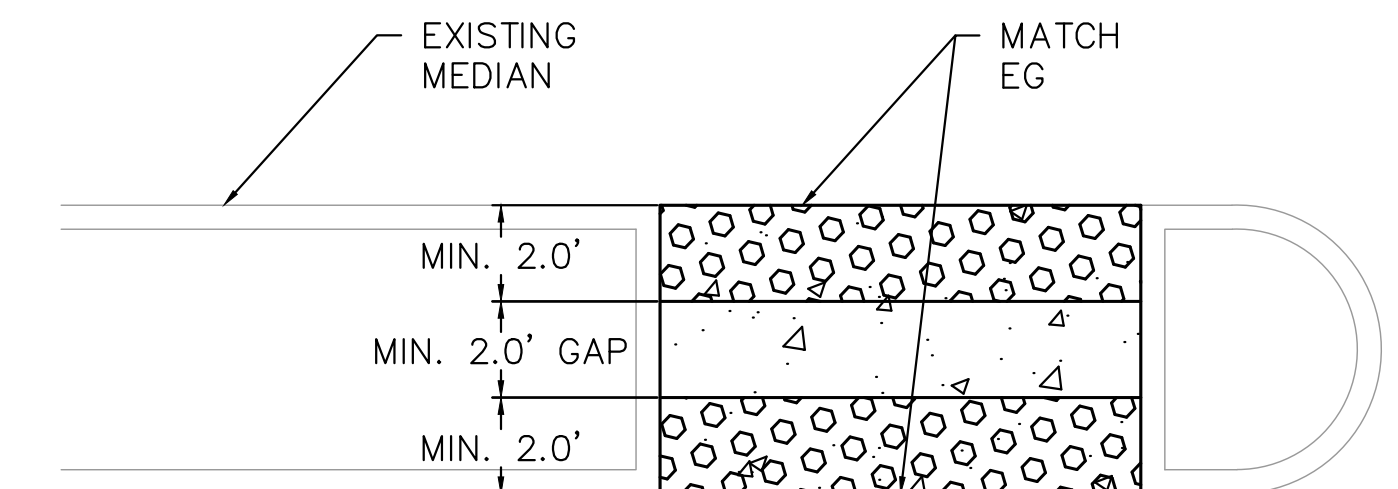
**NOTES:**

1. ALL DIGOUT REPAIR LOCATIONS ARE SHOWN SCHEMATICALLY ON PLANS. EXACT LOCATION AND DIMENSION SHALL BE MARKED IN THE FIELD BY THE ENGINEER.
2. APPLY TACK COAT TO ALL VERTICAL AND HORIZONTAL SURFACES.
3. IF DIGOUT IS LOCATED WITHIN AREAS OF GRIND AND OVERLAY, ADJUST SURFACE PATCH SUCH THAT A FINAL 2" OVERLAY CAN BE APPLIED WITHOUT DISRUPTING STREET GRADE.
4. WHERE EXISTING AC SURFACE IS LESS THAN 2", ADJUST DIGOUT DEPTH

**D** HMA DIGOUT DETAIL  
C-5.2 SCALE: NTS



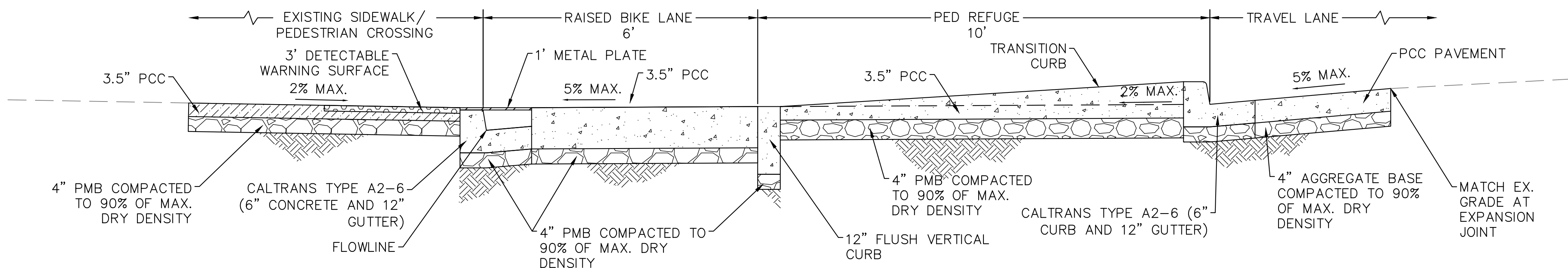
**B** BUS BOARDING ISLAND SIDEWALK EXTENSION CROSS SECTION  
C-5.2 SCALE: NTS



**NOTES:**

1. CONTRACTOR SHALL INSTALL NEW CONCRETE AND SET THE DETECTABLE WARNING SURFACE IN THE NEW CONCRETE.

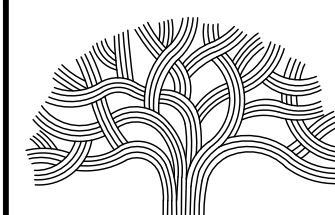
**E** RETROFIT DETECTABLE WARNING SURFACE  
C-5.2 SCALE: NTS



**C** RAISED CROSSWALK CROSS SECTION  
C-5.2 SCALE: NTS



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

**CONSTRUCTION PLANS:**

CIVIL DETAILS  
SHEET 2 OF 3

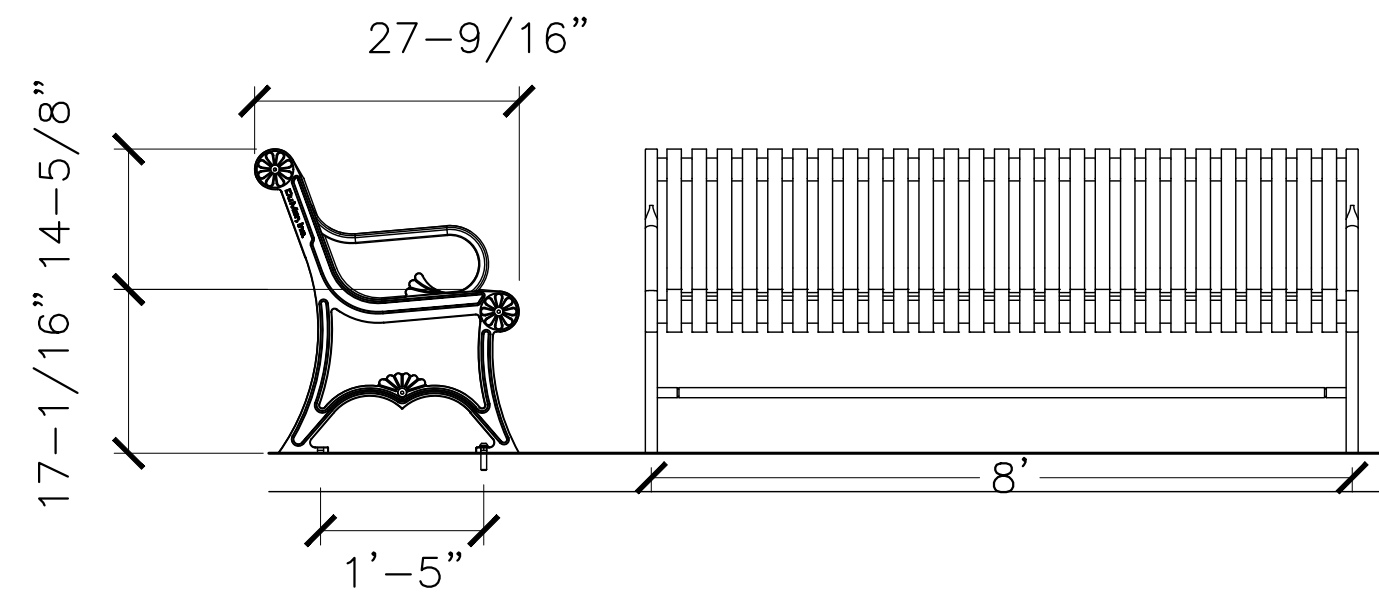
PROJECT NO.

**1004836**

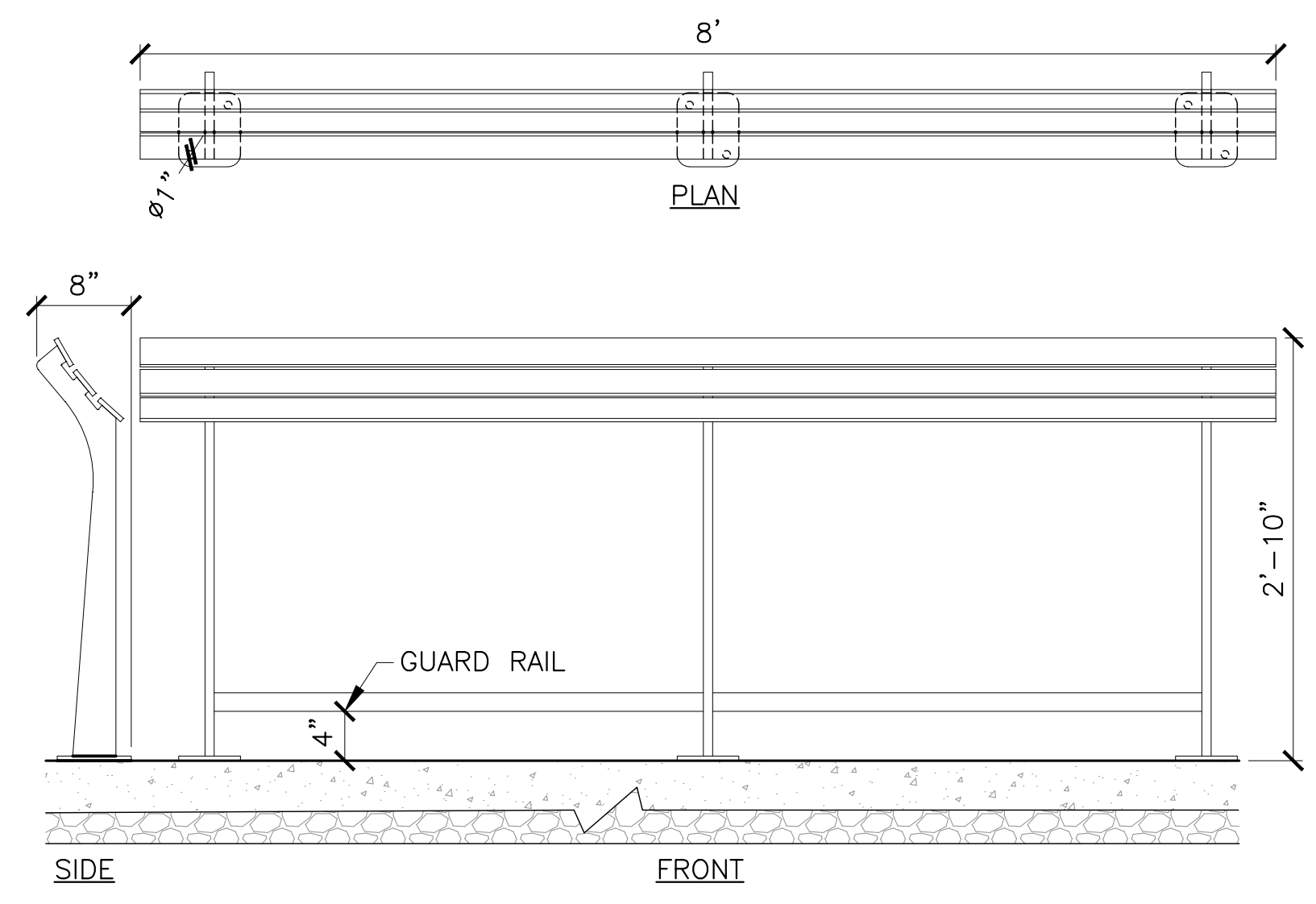
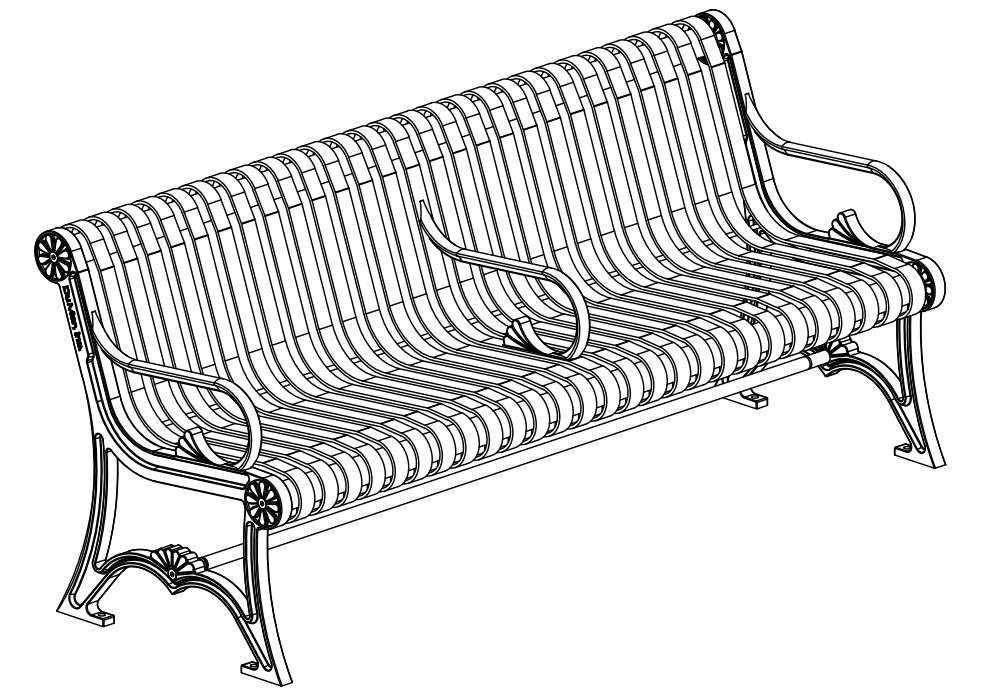
SCALE:  
AS SHOWN  
DATE:  
10/25/2023

SHEET NO.  
**C-5.2**  
42 OF 58

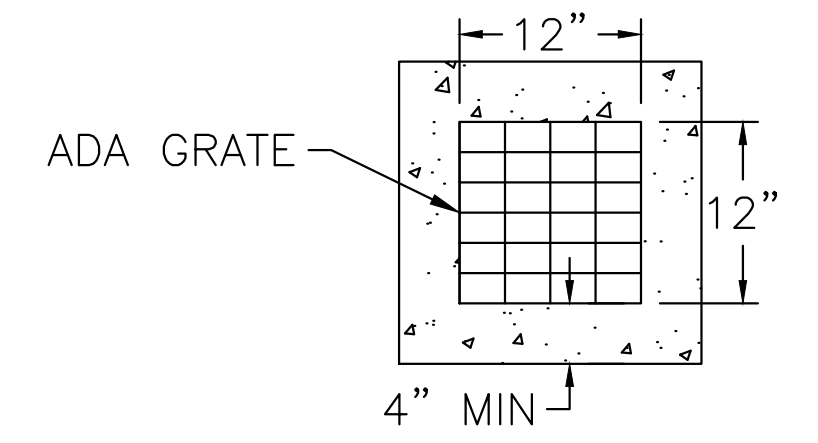




A BUS BOARDING BENCH DETAIL  
C-5.3 SCALE: NTS

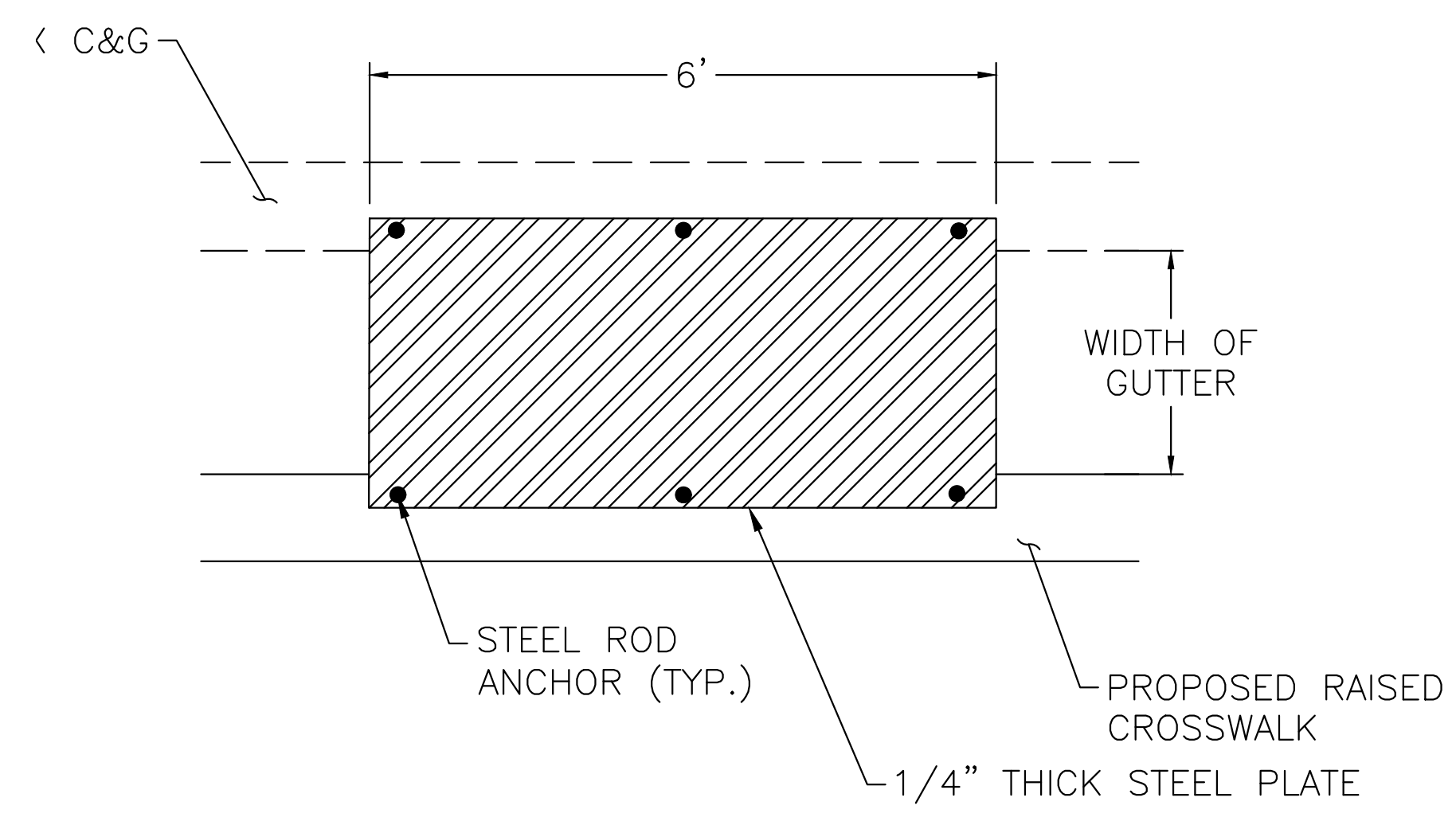


B BUS PLATFORM LEAN RAIL DETAIL  
C-5.3 SCALE: NTS

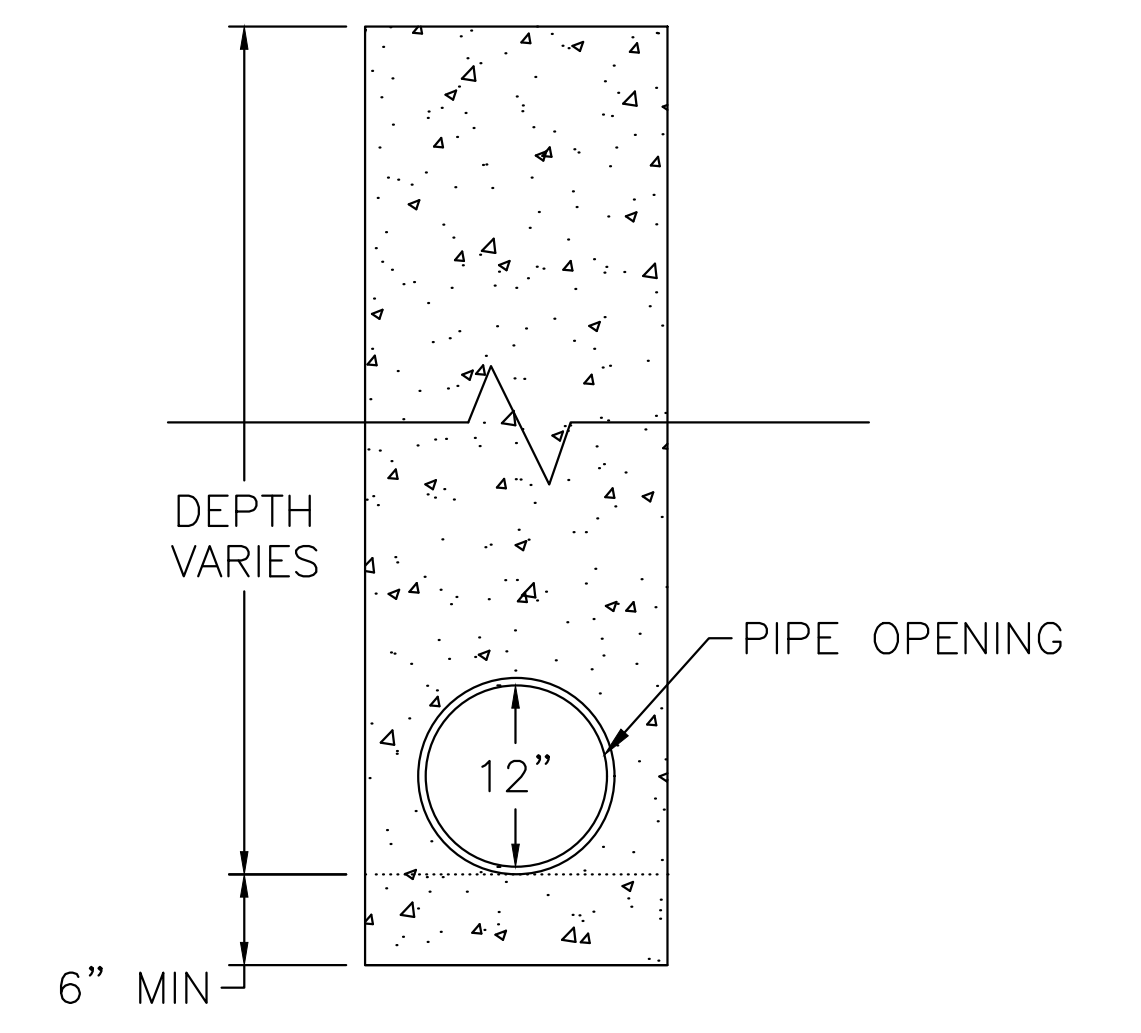
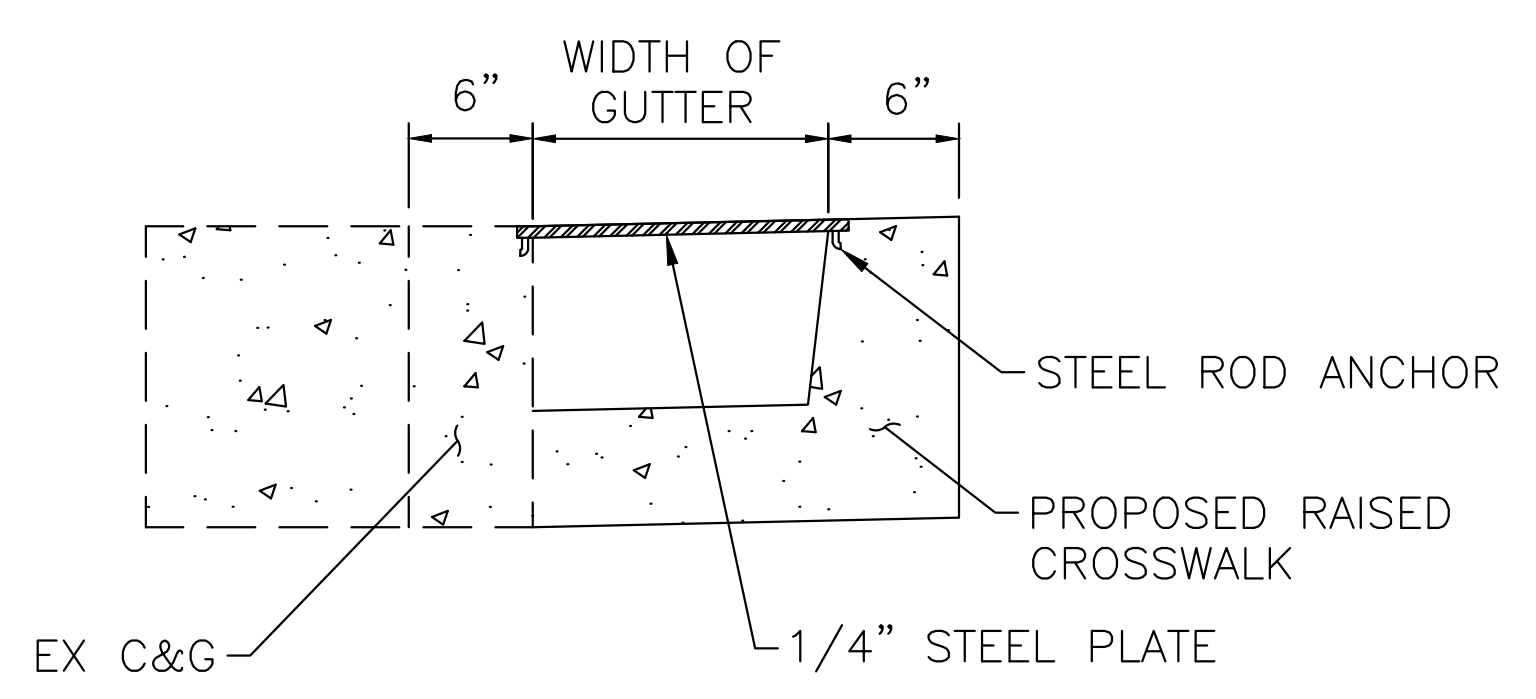


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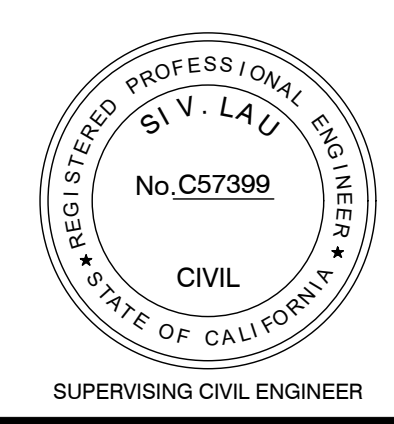
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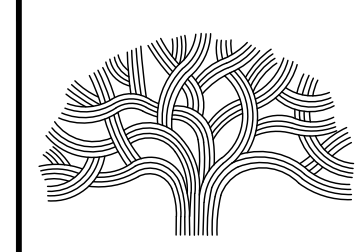
C METAL PLATE DETAIL  
C-5.3 SCALE: NTS



D AREA DRAIN DETAIL  
C-5.3 SCALE: NTS



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/DA				
DRAWN BY DA				

CONSTRUCTION PLANS:  
CIVIL DETAILS  
SHEET 3 OF 3

PROJECT NO. <b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>C-5.3</b>
DATE: 10/25/2023	<b>43</b> OF <b>58</b>

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CS/CD/1, ACTIVE/1004836 - Lakeside Family Streets (S)12, DESIGN/0, CAD/2, SHEET/C-5.3.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93



# 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. COMPLY WITH ALAMEDA COUNTY ORDINANCES FOR RECYCLING CONSTRUCTION MATERIALS, WOOD, GYP BOARD, PIPE, ETC.
- CHECK DUMPSTERS REGULARLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVERFILLED. REPAIR OR REPLACE LEAKING DUMPSTERS PROMPTLY.
- 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 ALAMEDA COUNTY PUBLIC WORKS AGENCY DISPATCH AT (510) 670-5500

#### 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.

### 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 ARE ONLY ALLOWED DURING DRY WEATHER BY PERMIT AND AS APPROVED BY THE COUNTY INSPECTOR 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.

### 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.

### 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.

### 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

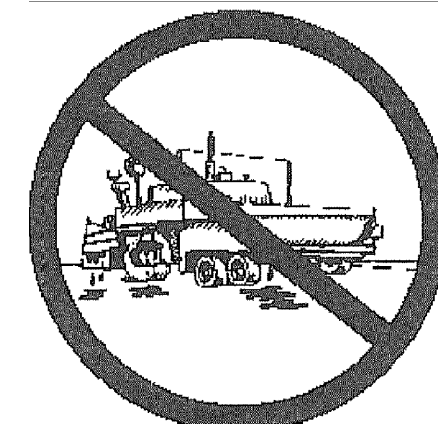
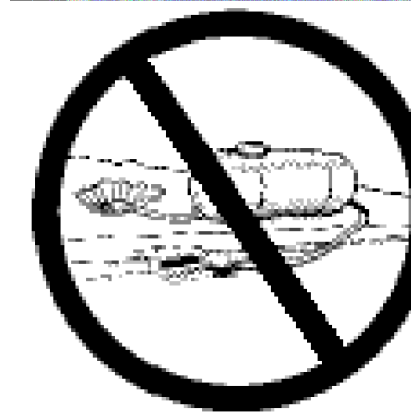
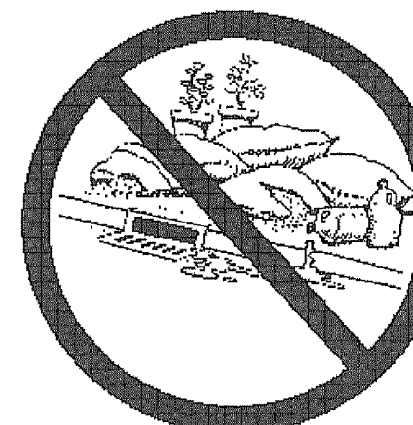
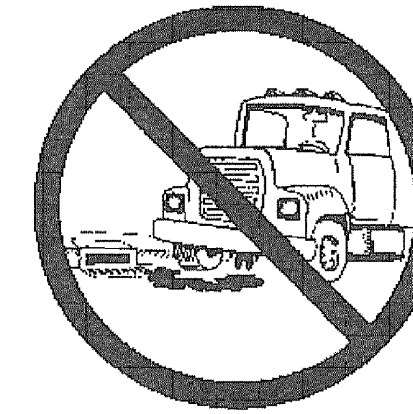
- ALWAYS COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, OR FOG SEAL.
- PROTECT GUTTERS, DITCHES, AND DRAINAGE COURSES WITH SAND/GRAVEL BAGS, OR EARTHEN BERMS.
- DO NOT SWEEP OR WASH DOWN EXCESS SAND FROM SAND SEALING INTO GUTTERS, STORM DRAINS, OR CREEKS. 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.



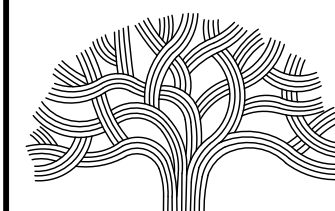
**STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF \$10,000 OR MORE PER DAY!**

CITY OF OAKLAND PUBLIC WORKS HOTLINE AT (510) 615-5566

FOR REFERENCES AND MORE DETAILED INFORMATION:  
[WWW.CLEANWATERPROGRAM.ORG](http://WWW.CLEANWATERPROGRAM.ORG)  
[WWW.CABMPHANDBOOKS.COM](http://WWW.CABMPHANDBOOKS.COM)



LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:

POLLUTION PREVENTION PLAN  
 SHEET 1 OF 1

PROJECT NO.

**1004836**

SCALE:  
 AS SHOWN  
 DATE:  
 10/25/2023

SHEET NO.  
**C-6.1**  
 44 OF 58

DRAWING NAME: Lakeside/Great Streets Delivery PROJECTS/CSD/1. ACTIVE/1004836 - Lakeside Family Streets (S)12. DESIGN/0. CAD/2. SHEET/C6.1.dwg PLOTTED BY: wang93

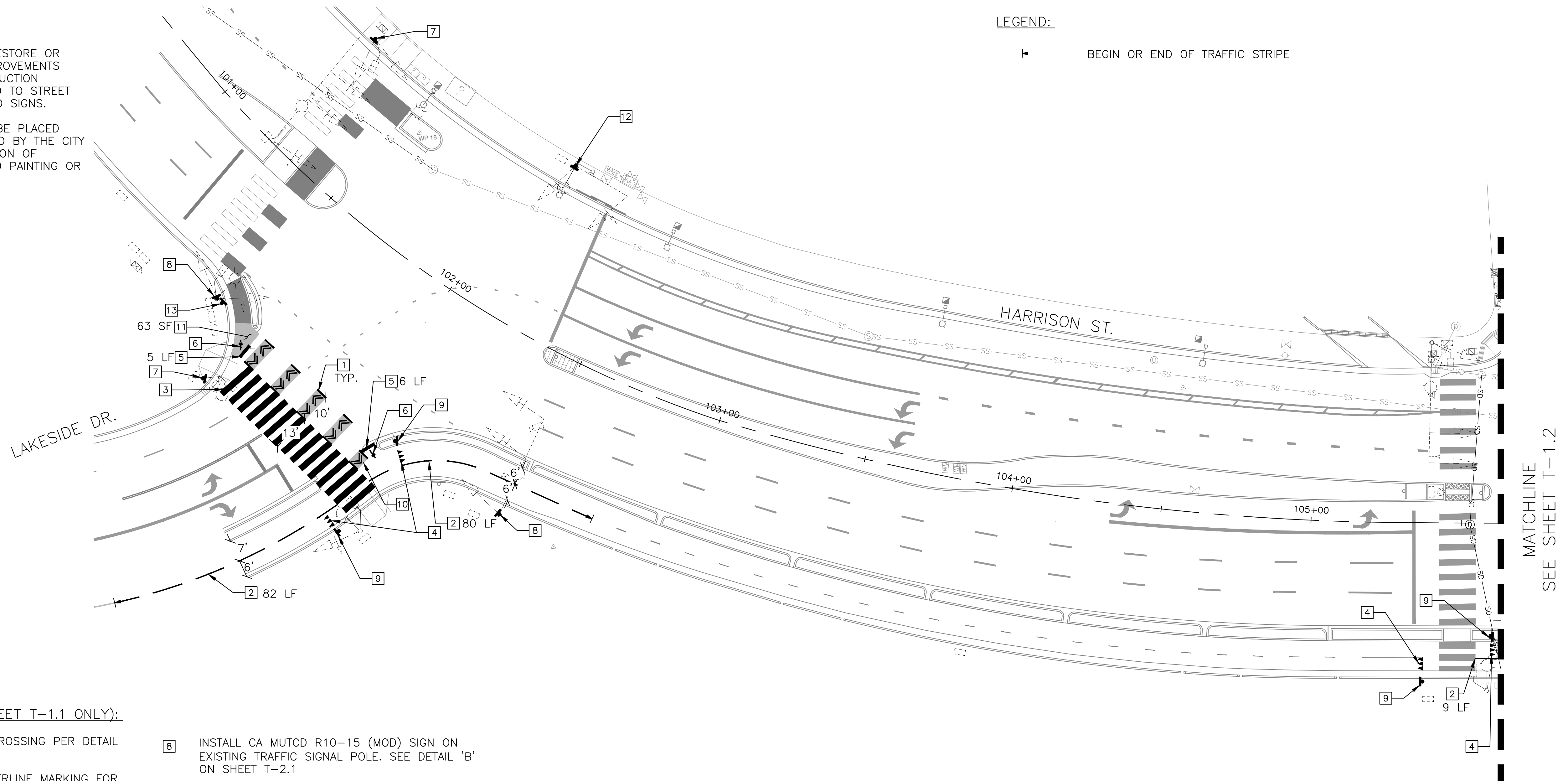


**SHEET NOTES:**

1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
2. NEW STRIPING SHALL NOT BE PLACED UNTIL CAT-TRACK APPROVED BY THE CITY OF OAKLAND. EXACT LOCATION OF STRIPING AND PAVEMENT TO PAINTING OR INSTALLATION.

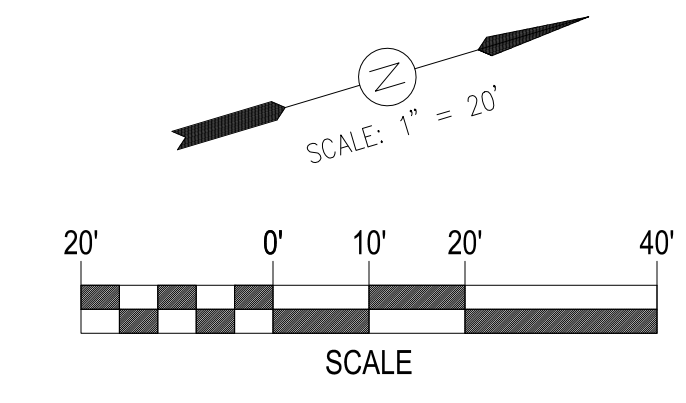
**LEGEND:**

┆ BEGIN OR END OF TRAFFIC STRIPE

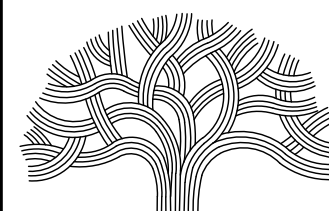


**CONSTRUCTION NOTES (SHEET T-1.1 ONLY):**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1 INSTALL TWO-WAY BIKE CROSSING PER DETAIL 'A' SHEET T-2.1</li> <li>2 INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A</li> <li>3 INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL RM-4 AND RM-4A</li> <li>4 INSTALL HALF-SIZE YIELD LINES PER CALTRANS STANDARD PLANS A24E</li> <li>5 INSTALL 12" WHITE STRIPE ADVANCED LIMIT LINE PER CITY OF OAKLAND DETAIL RM-5</li> <li>6 INSTALL BIKE DETECTOR PAVEMENT MARKING PER CITY OF OAKLAND DETAIL RM-3 AND RM-3A</li> <li>7 INSTALL CA MUTCD R9-5 SIGN ON EXISTING SIGNAL POLE</li> </ul> | <ul style="list-style-type: none"> <li>8 INSTALL CA MUTCD R10-15 (MOD) SIGN ON EXISTING TRAFFIC SIGNAL POLE. SEE DETAIL 'B' ON SHEET T-2.1</li> <li>9 INSTALL CA MUTCD R1-5 SIGN (18"x18") AND POST</li> <li>10 INSTALL BIKE LANE INTERSECTION MARKING DETAIL PER CITY OF OAKLAND DETAIL RM-9</li> <li>11 INSTALL GREEN PAVEMENT MARKING MATERIAL</li> <li>12 INSTALL CA MUTCD R13A (CA) SIGN ON EXISTING TRAFFIC SIGNAL POLE.</li> <li>13 INSTALL CA MUTCD R9-5 SIGN AND POST</li> </ul> |
|---|---|



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

SIGNING & STRIPING PLANS  
1 OF 6

PROJECT NO.

**1004836**

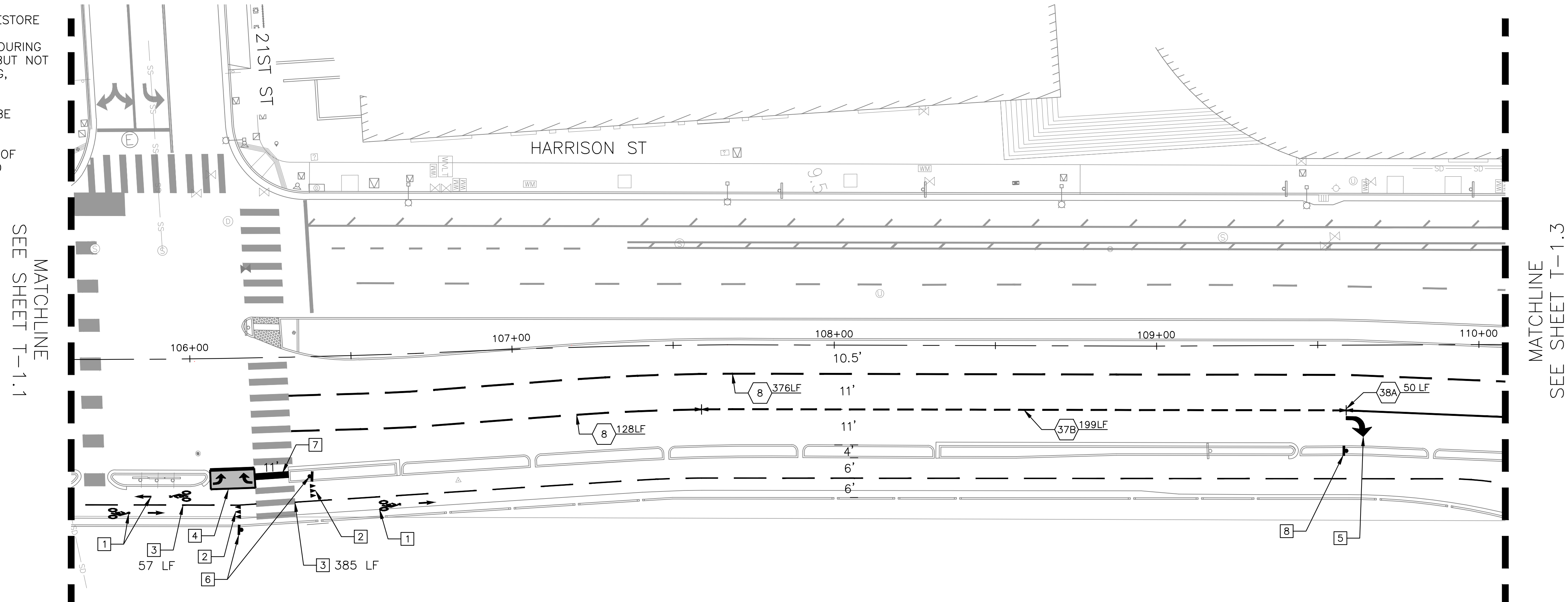
SCALE:  
1" = 20'  
DATE:  
10/25/2023

SHEET NO.  
**T-1.1**  
45 OF 58



SHEET NOTES:

1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
2. NEW STRIPING SHALL NOT BE PLACED UNTIL CAT-TRACK APPROVED BY THE CITY OF OAKLAND. EXACT LOCATION OF STRIPING AND PAVEMENT TO PAINTING OR INSTALLATION.



CONSTRUCTION NOTES (THIS SHEET ONLY):

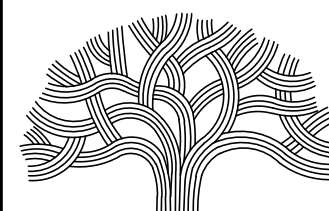
1. INSTALL BIKE LANE SYMBOL & ARROW PER CITY OF OAKLAND DETAIL RM-1
2. INSTALL HALF-SIZE YIELD LINES PER CALTRANS STANDARD PLANS A24E
3. INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A
4. INSTALL TWO-STAGE TURN QUEUE BOX PER DETAIL 'C' SHEET T-2.1
5. INSTALL TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A
6. INSTALL CA MUTCD R1-5 SIGN (18"x18") AND POST
7. INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL RM-4 AND RM-4A
8. INSTALL CA MUTCD R3-7 SIGN AND POST

LEGEND:

# X LF CA MUTCD DETAIL NUMBER AND QUANTITY



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

CONSTRUCTION PLANS:

SIGNING & STRIPING PLANS  
2 OF 6

PROJECT NO.

1004836

SCALE:

1" = 20'

DATE:

10/25/2023

SHEET NO.

T-1.2

46 OF 58



**SHEET NOTES:**

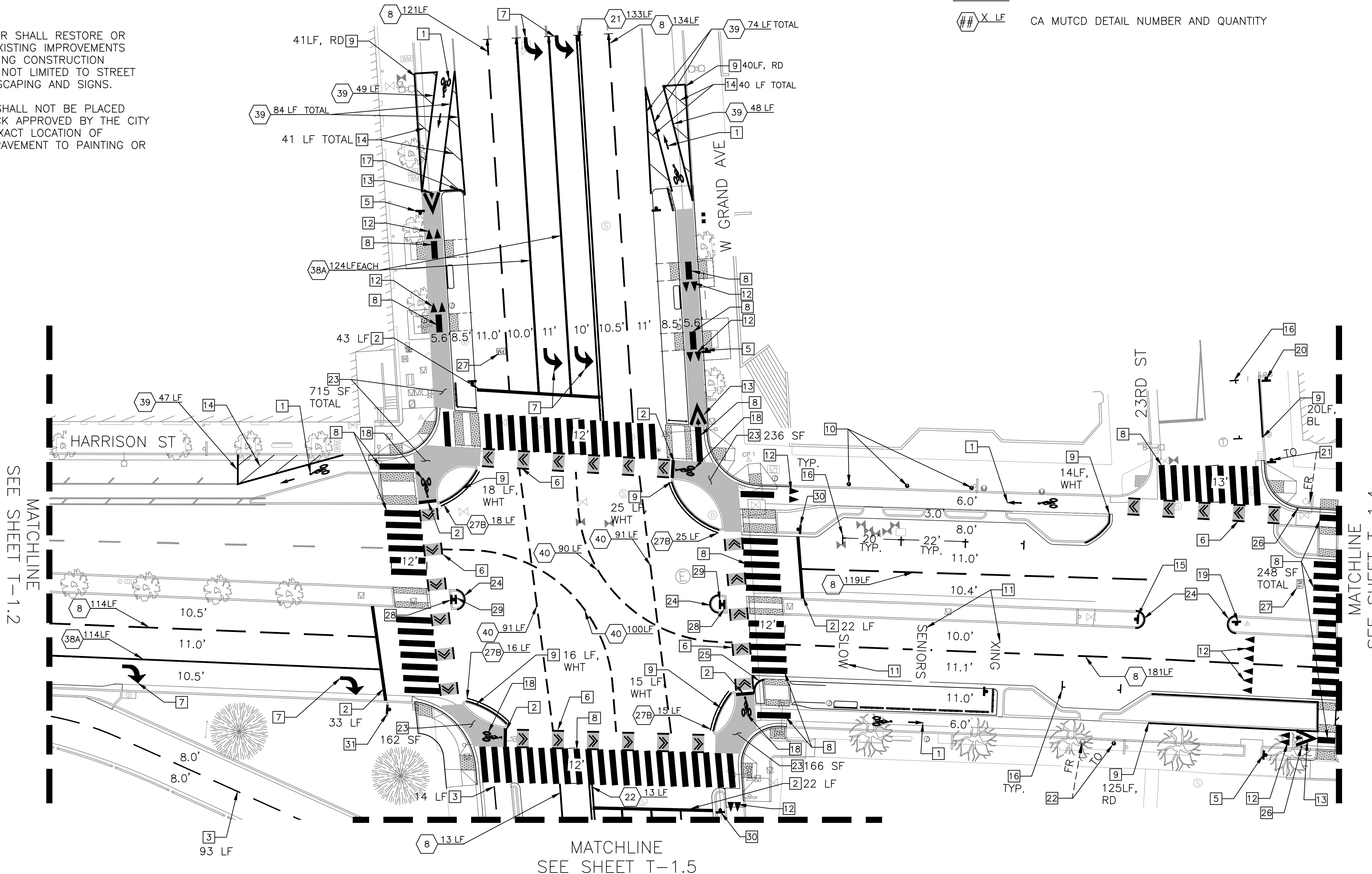
1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
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**LEGEND:**

## X LF CA MUTCD DETAIL NUMBER AND QUANTITY

**CONSTRUCTION NOTES (THIS SHEET ONLY):**

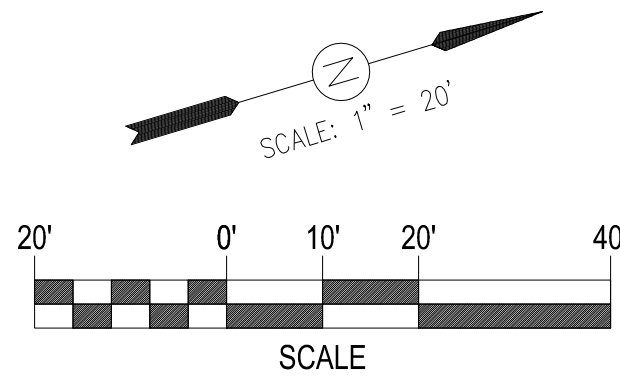
- 1 INSTALL BIKE LANE SYMBOL & ARROW PER CITY OF OAKLAND DETAIL RM-1
- 2 INSTALL 12" WHITE STRIPE ADVANCED LIMIT LINE PER CITY OF OAKLAND DETAIL RM-5
- 3 INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A
- 4 INSTALL TWO-STAGE TURN QUEUE BOX PER CITY OF OAKLAND DETAIL RM-8
- 5 INSTALL CA MUTCD R1-5 SIGN (18"x18") AND POST
- 6 INSTALL GREEN BIKE INTERSECTION MARKINGS PER CITY OF OAKLAND DETAIL GB-4
- 7 INSTALL TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A
- 8 INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL RM-4 AND RM-4A
- 9 INSTALL COLOR CURB. COLOR INDICATED ON PLAN
- 10 INSTALL PARKING METER POST PER DETAIL 'E' SHEET T-2.1
- 11 INSTALL PAVEMENT MARKING WORDS PER CALTRANS STANDARD PLANS A24D AND A24E
- 12 INSTALL YIELD LINES PER CALTRANS STANDARD PLANS A24E
- 13 INSTALL BIKE RAMP PAVEMENT MARKING PER DETAIL 'F' SHEET T-2.1
- 14 INSTALL 6" WHITE STRIPE EVERY 8 FEET O.C. AT 45 DEGREES
- 15 INSTALL NEW CA MUTCD R3-4 SIGN AND POST
- 16 INSTALL PARKING STALL "TEE" PER CITY OF OAKLAND DETAIL RM-11
- 17 INSTALL BUS ISLAND MEDIAN NOSE CURB PER DETAIL 'D' SHEET T-2.1
- 18 INSTALL HELMETED BICYCLE SYMBOL WITHOUT ARROW PER CA MUTCD FIGURE 9C-3B
- 19 INSTALL NEW CA MUTCD R3-2 SIGN AND POST
- 20 INSTALL NEW CA MUTCD R99C (CA) SIGN AND POST
- 21 RELOCATE (E) STREET NAME SIGN
- 22 RELOCATE (E) PARKING METER HEAD AND POST
- 23 INSTALL GREEN PAVEMENT MARKING MATERIAL
- 24 INSTALL MEDIAN NOSE CURB PER DETAIL 'G' SHEET T-2.1
- 25 INSTALL MEDIAN NOSE CURB PER DETAIL 'H' SHEET T-2.1
- 26 INSTALL WHITE FLEXIBLE DELINEATOR POST
- 27 INSTALL FIRE HYDRANT RETROREFLECTIVE MARKER
- 28 INSTALL NEW CA MUTCD R3-2 AND R82A(CA) SIGNS AND POST
- 29 INSTALL NEW CA MUTCD R4-7 SIGN
- 30 INSTALL NEW CA MUTCD R10-15 (MOD) SIGN AND POST. SEE DETAIL 'B' SHEET T-2.1
- 31 INSTALL NEW CA MUTCD R10-15 (MOD) SIGN ON EXISTING POST. SEE DETAIL 'B' SHEET T-2.1



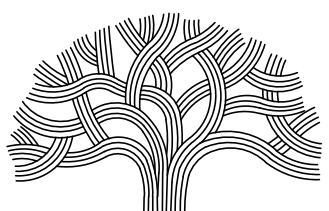
MATCHLINE SEE SHEET T-1.2

MATCHLINE SEE SHEET T-1.4

MATCHLINE SEE SHEET T-1.5



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**  
**SIGNING & STRIPING PLANS**  
3 OF 6

PROJECT NO. <b>1004836</b>	
SCALE: 1" = 20'	SHEET NO. <b>T-1.3</b>
DATE: 10/25/2023	<b>47</b> OF <b>58</b>

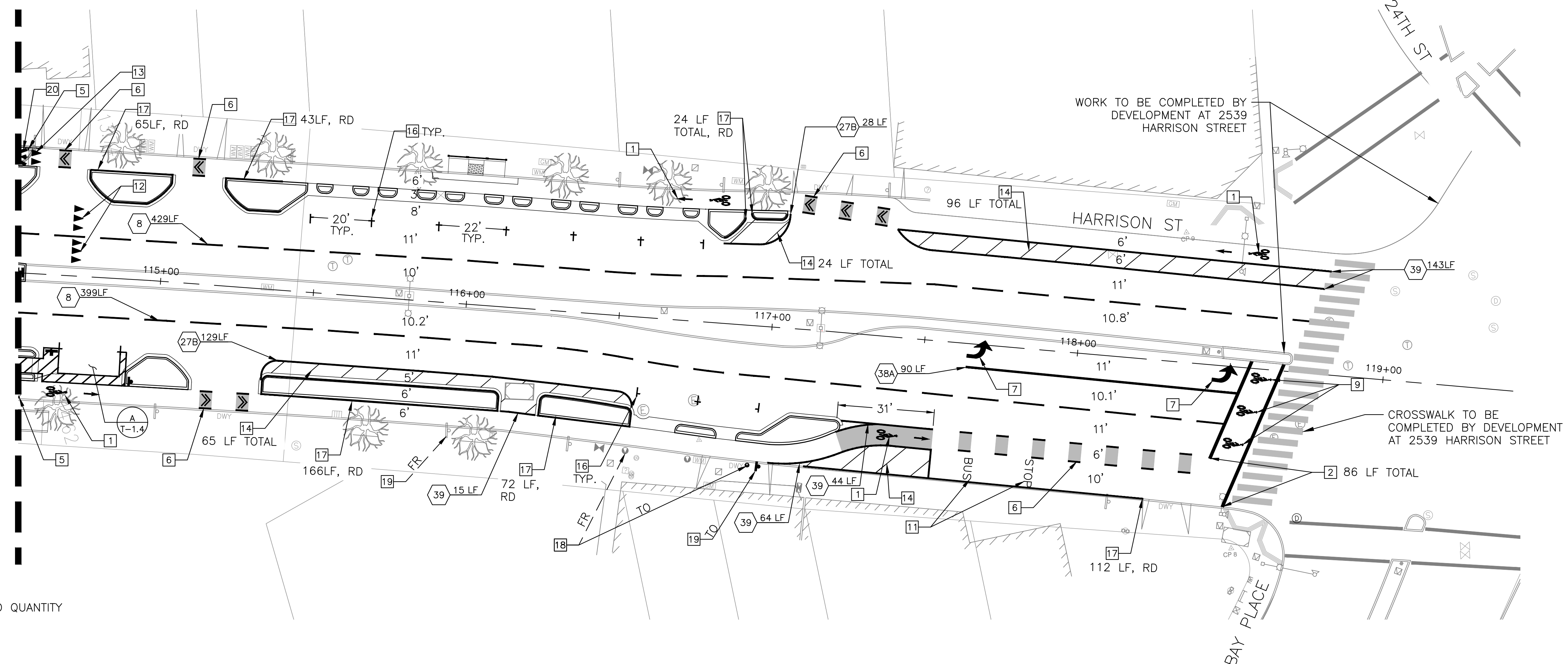
DRAWING NAME: Lakeside Family Streets (S)12 DESIGN: CAD/C SHEET T-1.3.dwg PLOT DATE: 11/13/23 PLOTTED BY: wang93



**SHEET NOTES:**

1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
2. NEW STRIPING SHALL NOT BE PLACED UNTIL CAT-TRACK APPROVED BY THE CITY OF OAKLAND. EXACT LOCATION OF STRIPING AND PAVEMENT TO PAINTING OR INSTALLATION.

MATCHLINE  
SEE SHEET T-1.3

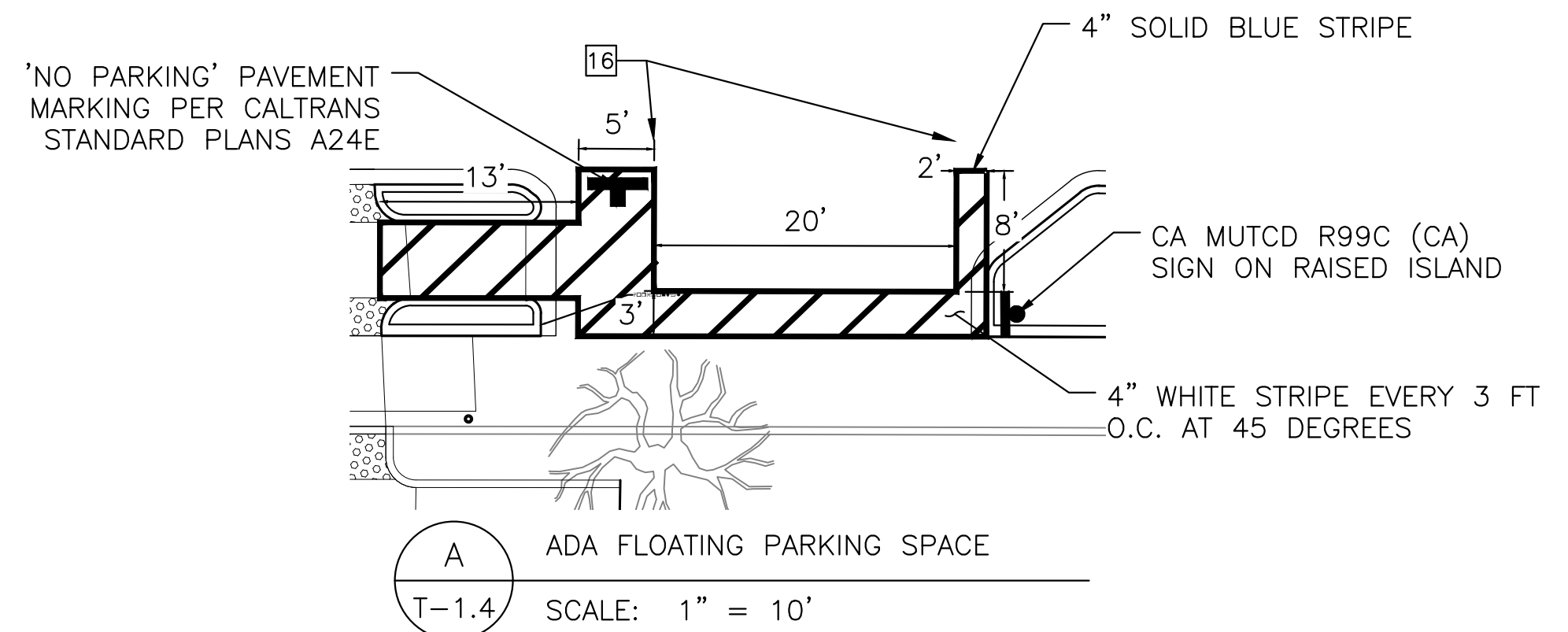


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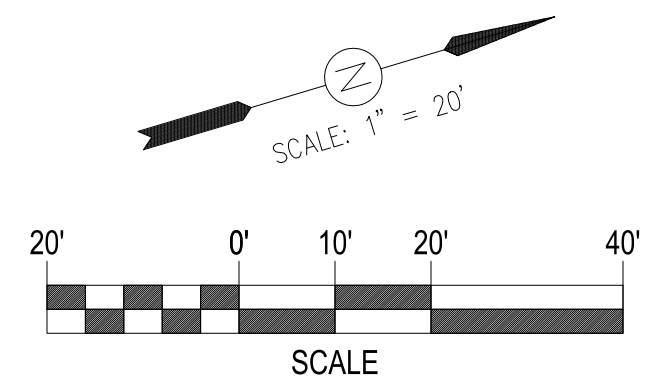
**#/#** X LF CA MUTCD DETAIL NUMBER AND QUANTITY

**CONSTRUCTION NOTES (THIS SHEET ONLY):**

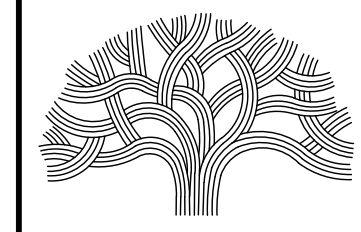
- |   |   |   |
|---|---|---|
| <ol style="list-style-type: none"> <li>1. INSTALL BIKE LANE SYMBOL &amp; ARROW PER CITY OF OAKLAND DETAIL RM-1</li> <li>2. INSTALL 12" WHITE STRIPE ADVANCED LIMIT LINE PER CITY OF OAKLAND DETAIL RM-5</li> <li>3. INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A</li> <li>4. INSTALL TWO-STAGE TURN QUEUE BOX PER CITY OF OAKLAND DETAIL RM-8</li> <li>5. INSTALL WHITE FLEXIBLE DELINEATOR POST</li> <li>6. INSTALL GREEN BIKE INTERSECTION MARKINGS PER CITY OF OAKLAND DETAIL GB-4</li> <li>7. INSTALL TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A</li> </ol> | <ol style="list-style-type: none"> <li>8. INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL RM-4 AND RM-4A</li> <li>9. INSTALL BIKE LANE SYMBOL FOR BIKE BOX PER CALTRANS STANDARD PLANS A24C, PLACEMENT PER CITY OF OAKLAND DETAIL RM-7 AND RM-7A</li> <li>10. INSTALL HALF-SIZE TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A</li> <li>11. INSTALL PAVEMENT MARKING WORDS PER CALTRANS STANDARD PLANS A24D AND A24E</li> <li>12. INSTALL YIELD LINES PER CALTRANS STANDARD PLANS A24E</li> <li>13. INSTALL HALF-SIZE YIELD LINES PER CALTRANS STANDARD PLANS A24E</li> <li>14. INSTALL 6" WHITE STRIPE EVERY 8 FEET O.C. AT 45 DEGREES</li> <li>15. INSTALL BIKE DETECTOR PAVEMENT MARKING PER CITY OF OAKLAND DETAIL RM-3 AND RM-3A</li> </ol> | <ol style="list-style-type: none"> <li>16. INSTALL PARKING STALL "TEE" PER CITY OF OAKLAND DETAIL RM-11</li> <li>17. INSTALL COLOR CURB. COLOR INDICATED ON PLAN</li> <li>18. RELOCATE (E) PARKING METER HEAD AND POST</li> <li>19. RELOCATE EXISTING SIGN AND POST</li> <li>20. INSTALL BIKE RAMP PAVEMENT MARKING PER DETAIL 'E' SHEET T-2.1</li> </ol> |
|---|---|---|



**A**  
T-1.4  
SCALE: 1" = 10'



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

SIGNING & STRIPING PLANS  
4 OF 6

PROJECT NO.  
**1004836**

SCALE:  
1" = 20'  
DATE:  
10/25/2023

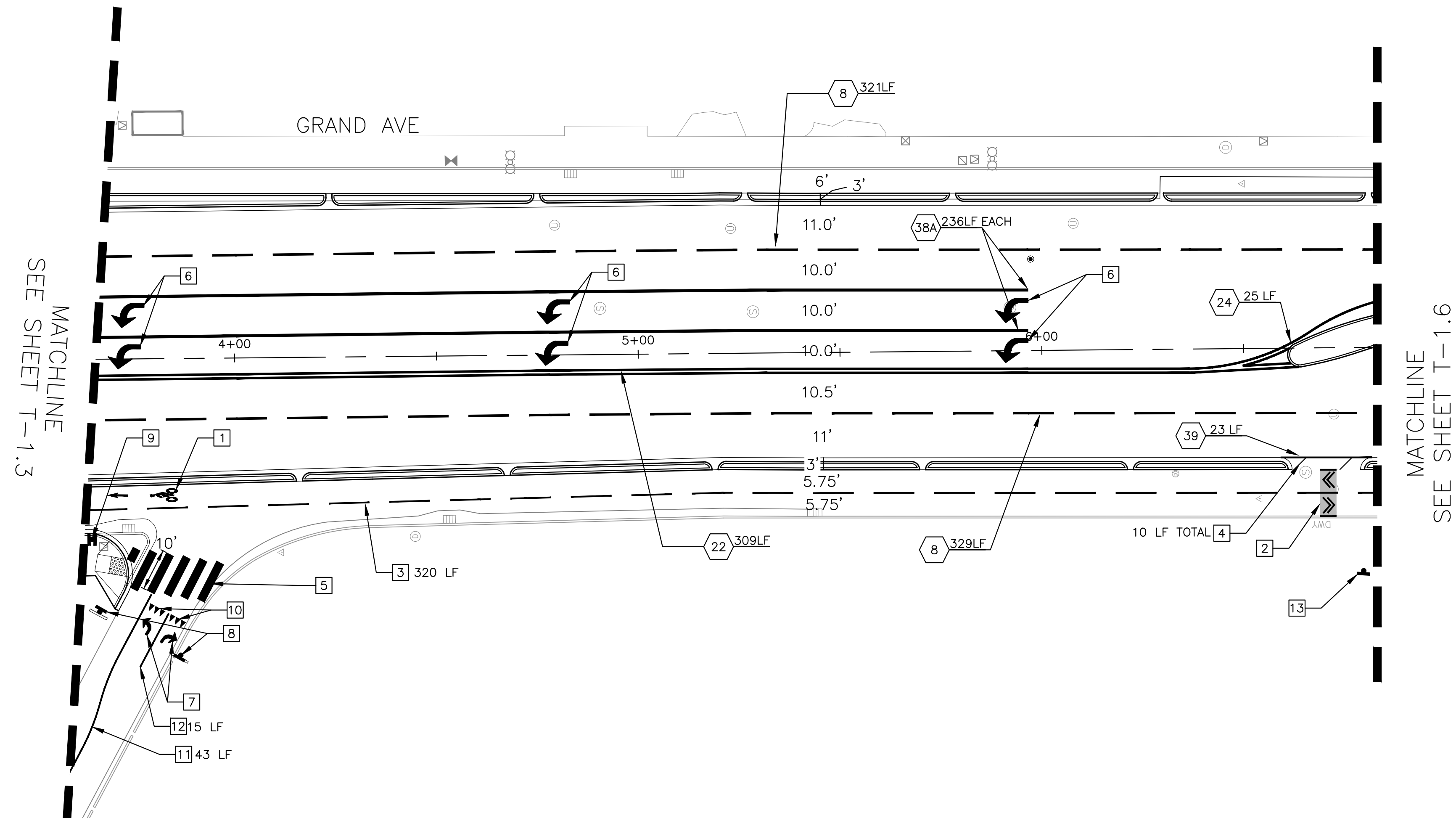
SHEET NO.  
**T-1.4**  
48 OF 58

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CSD/1. ACTIVE/1004836 - Lakeside Family Streets (S)12. DESIGN/0. CAD/2. SHEET/T-1.4.dwg  
PLOT DATE: 11-09-23  
PLOT BY: wang93



**SHEET NOTES:**

1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
2. NEW STRIPING SHALL NOT BE PLACED UNTIL CAT-TRACK APPROVED BY THE CITY OF OAKLAND. EXACT LOCATION OF STRIPING AND PAVEMENT TO PAINTING OR INSTALLATION.

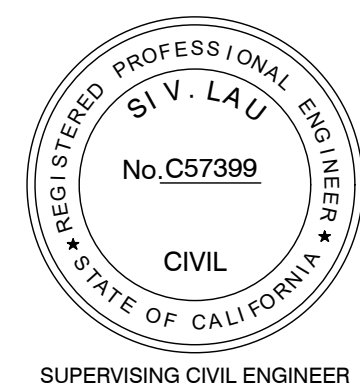
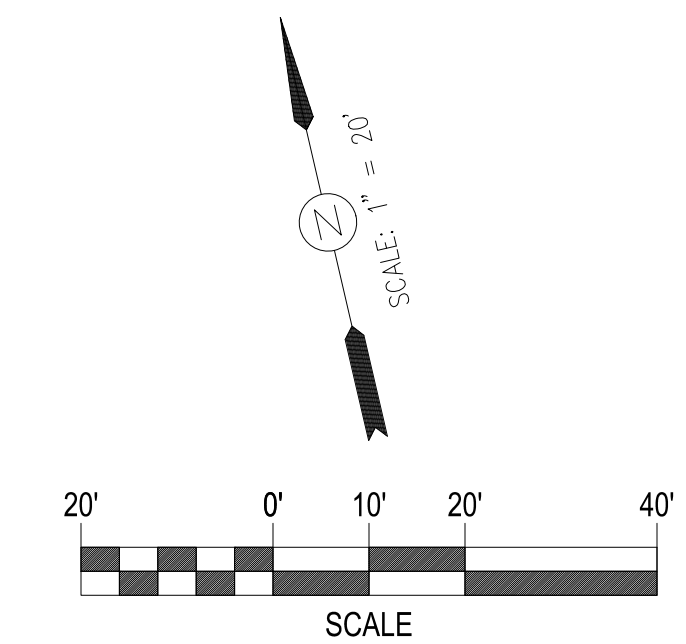


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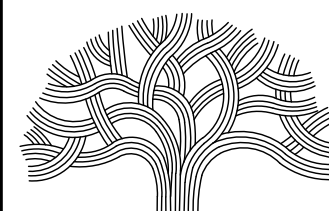
## X LF CA MUTCD DETAIL NUMBER AND QUANTITY

**CONSTRUCTION NOTES (THIS SHEET ONLY):**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1 INSTALL BIKE LANE SYMBOL &amp; ARROW PER CITY OF OAKLAND DETAIL RM-1</li> <li>2 INSTALL TWO-WAY BIKE CROSSING PER DETAIL 'A' SHEET T-2.1</li> <li>3 INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A</li> <li>4 INSTALL 6" WHITE STRIPE EVERY 8 FEET O.C. AT 45 DEGREES</li> <li>5 INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL RM-4 AND RM-4A</li> <li>6 INSTALL TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A</li> <li>7 INSTALL HALF-SIZE TYPE IV (L/R) PER CALTRANS STANDARD PLANS A24A</li> </ul> | <ul style="list-style-type: none"> <li>8 INSTALL CA MUTCD R1-5 SIGN (18"X18") ON EXISTING POLE</li> <li>9 INSTALL TWO CA MUTCD R1-5 SIGNS (18"X18") AND POST</li> <li>10 INSTALL HALF-SIZE YIELD LINES PER CALTRANS STANDARD PLANS A24E</li> <li>11 INSTALL 4" SOLID YELLOW STRIPE</li> <li>12 INSTALL 4" SOLID WHITE STRIPE</li> <li>13 INSTALL CA MUTCD R1-1 SIGN AND POST</li> </ul> |
|--|---|



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

SIGNING AND STRIPING PLANS  
5 OF 6

PROJECT NO.

**1004836**

SCALE:

1" = 20'

DATE:

10/25/2023

SHEET NO.

**T-1.5**

49 OF 58

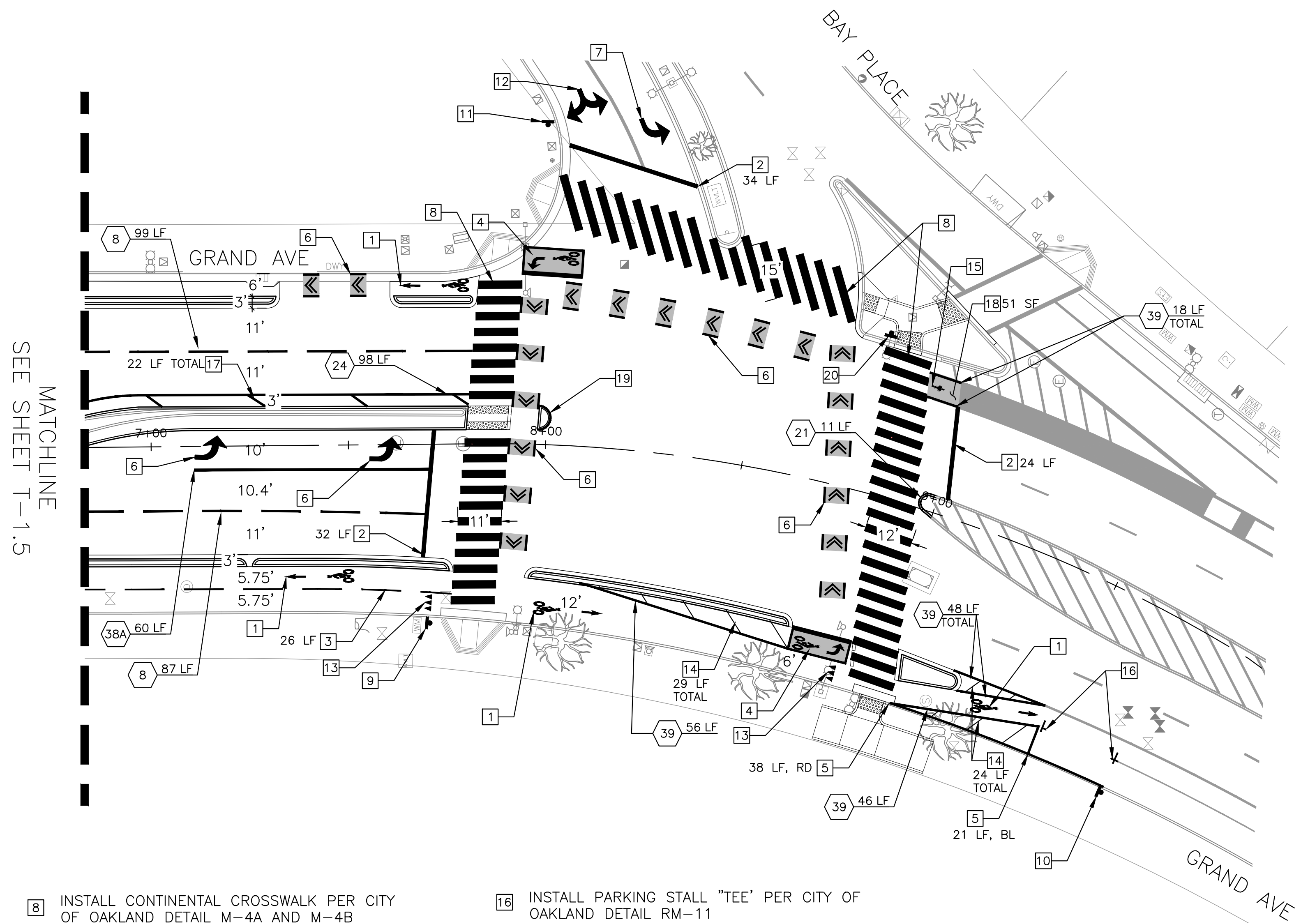


SHEET NOTES:

1. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO STREET STRIPING, LANDSCAPING AND SIGNS.
2. NEW STRIPING SHALL NOT BE PLACED UNTIL CAT-TRACK APPROVED BY THE CITY OF OAKLAND. EXACT LOCATION OF STRIPING AND PAVEMENT TO PAINTING OR INSTALLATION.

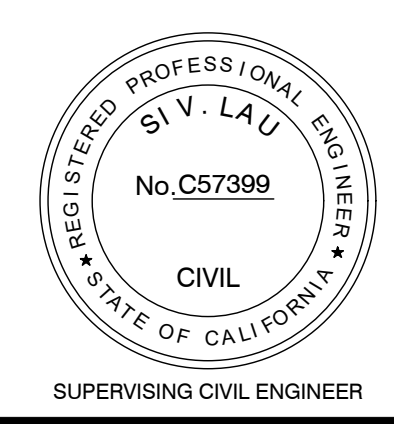
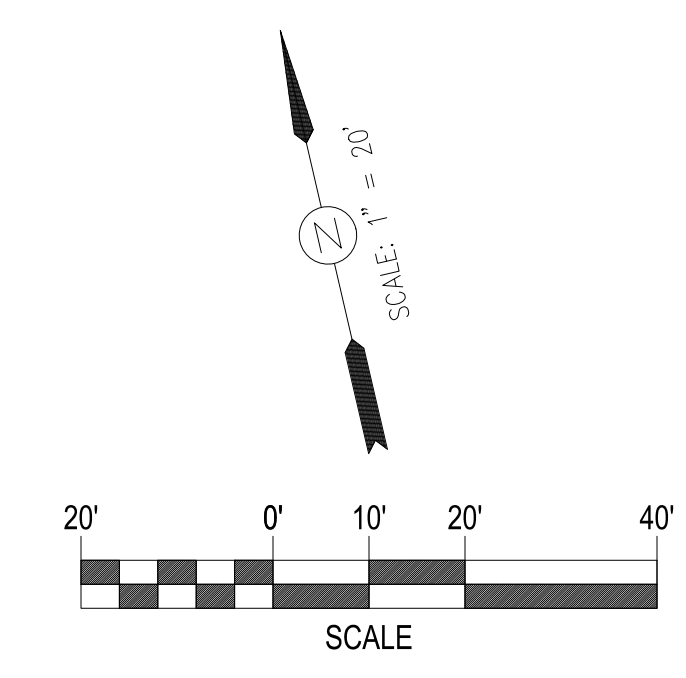
LEGEND:

## X LF CA MUTCD DETAIL NUMBER AND QUANTITY

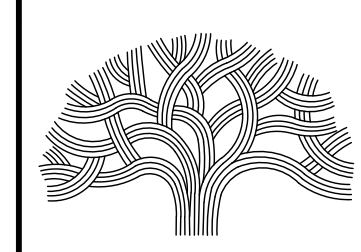


CONSTRUCTION NOTES (THIS SHEET ONLY):

- |  |  |   |
|--|--|---|
| <p>1 INSTALL BIKE LANE SYMBOL &amp; ARROW PER CITY OF OAKLAND DETAIL RM-1</p> <p>2 INSTALL 12" WHITE STRIPE ADVANCED LIMIT LINE PER CITY OF OAKLAND DETAIL RM-5</p> <p>3 INSTALL 4" YELLOW CENTERLINE MARKING FOR BIKE PATH PER CA MUTCD FIGURE 9C-2A</p> <p>4 INSTALL TWO-STAGE TURN QUEUE BOX PER CITY OF OAKLAND DETAIL RM-8</p> <p>5 INSTALL COLOR CURB. COLOR INDICATED ON PLAN</p> <p>6 INSTALL GREEN BIKE INTERSECTION MARKINGS PER CITY OF OAKLAND DETAIL GB-4</p> <p>7 INSTALL TYPE IV (L/R) ARROW PER CALTRANS STANDARD PLANS A24A</p> | <p>8 INSTALL CONTINENTAL CROSSWALK PER CITY OF OAKLAND DETAIL M-4A AND M-4B</p> <p>9 INSTALL CA MUTCD R1-5 SIGN (18"x18") AND POST</p> <p>10 INSTALL CA MUTCD R99C (CA) SIGN AND POST</p> <p>11 INSTALL CA MUTCD R13A (CA) SIGN AND POST</p> <p>12 INSTALL COMBINED TYPE IV (L/R) ARROW PER CALTRANS STANDARD PLANS A24A</p> <p>13 INSTALL HALF-SIZE YIELD LINES PER CALTRANS STANDARD PLANS A24E</p> <p>14 INSTALL 6" WHITE STRIPE EVERY 8 FEET O.C. AT 45 DEGREES</p> <p>15 INSTALL BIKE DETECTOR PAVEMENT MARKING PER CITY OF OAKLAND DETAIL RM-3 AND RM-3A</p> | <p>16 INSTALL PARKING STALL "TEE" PER CITY OF OAKLAND DETAIL RM-11</p> <p>17 INSTALL 4" YELLOW STRIPE EVERY 15 FEET O.C. AT 45 DEGREES</p> <p>18 INSTALL GREEN PAVEMENT MARKING MATERIAL</p> <p>19 INSTALL MEDIAN NOSE CURB PER DETAIL 'D' SHEET T-2.1</p> <p>20 INSTALL CA MUTCD R9-5 SIGN ON EXISTING SIGNAL POLE</p> |
|--|--|---|



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

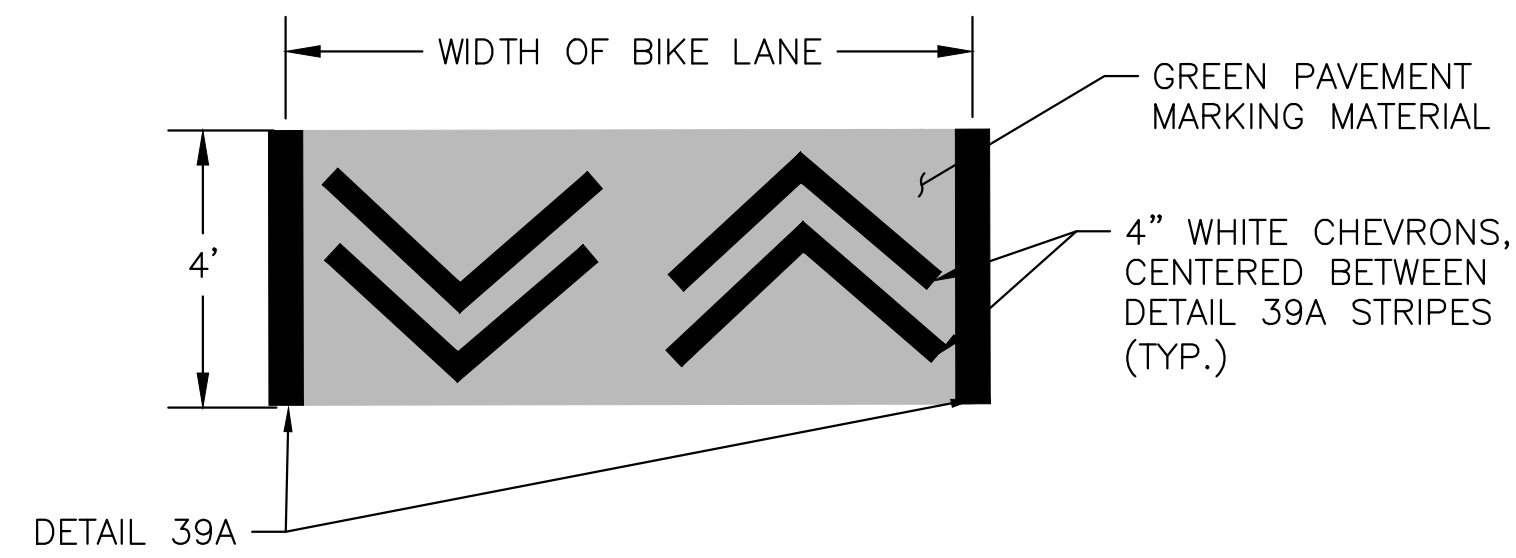
CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

CONSTRUCTION PLANS:  
SIGNING & STRIPING PLANS  
6 OF 6

PROJECT NO. <b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>T-1.6</b>
DATE: 10/25/2023	<b>50</b> OF <b>58</b>

DRAWING NAME: Lakeside/Great Streets Delivery PROJECTS/CSD1, ACTIVE/1004836 - Lakeside Family Streets (S)12, DESIGN/0, CADD/2, SHEET/T-1.6.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wang93

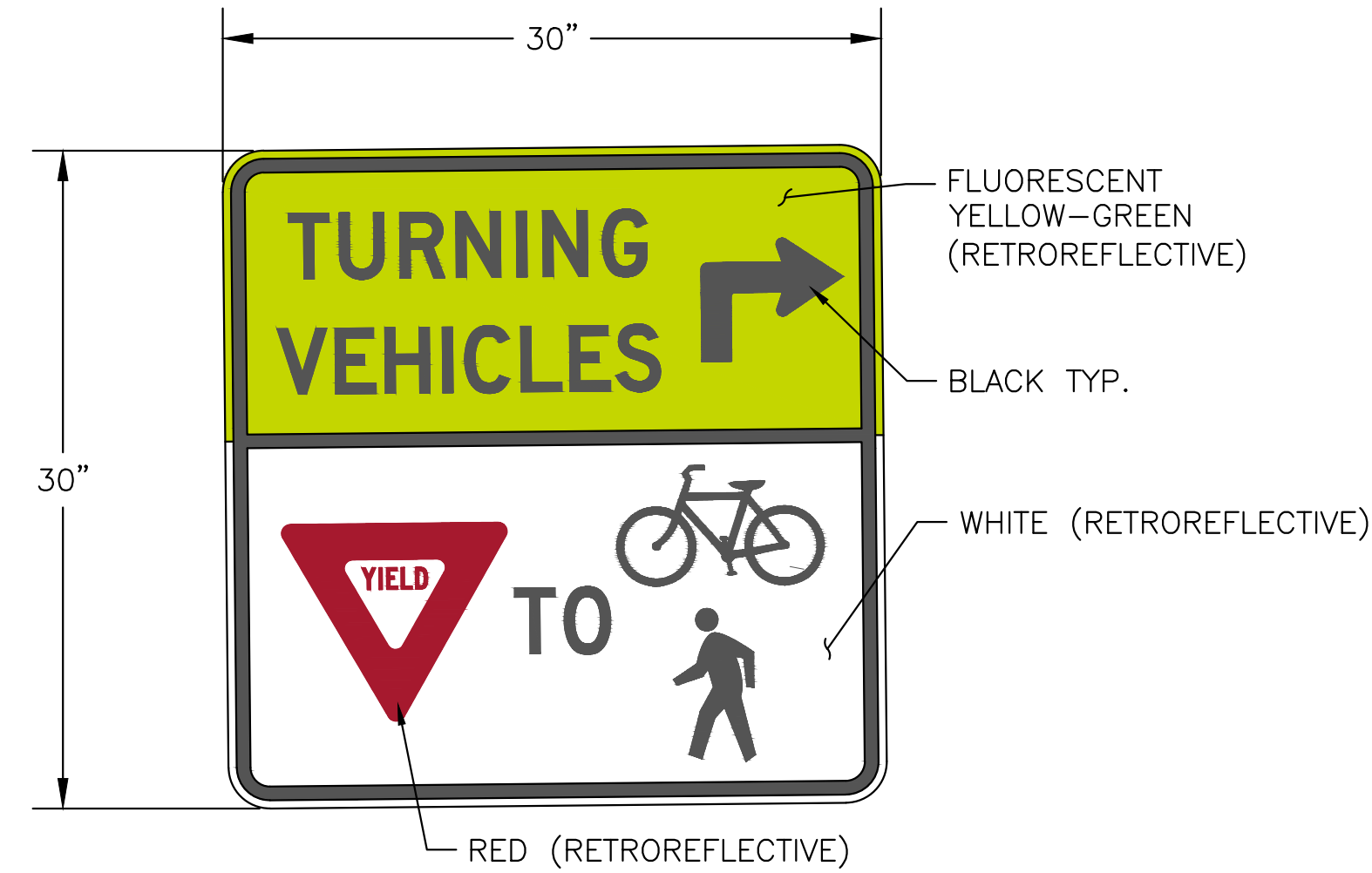




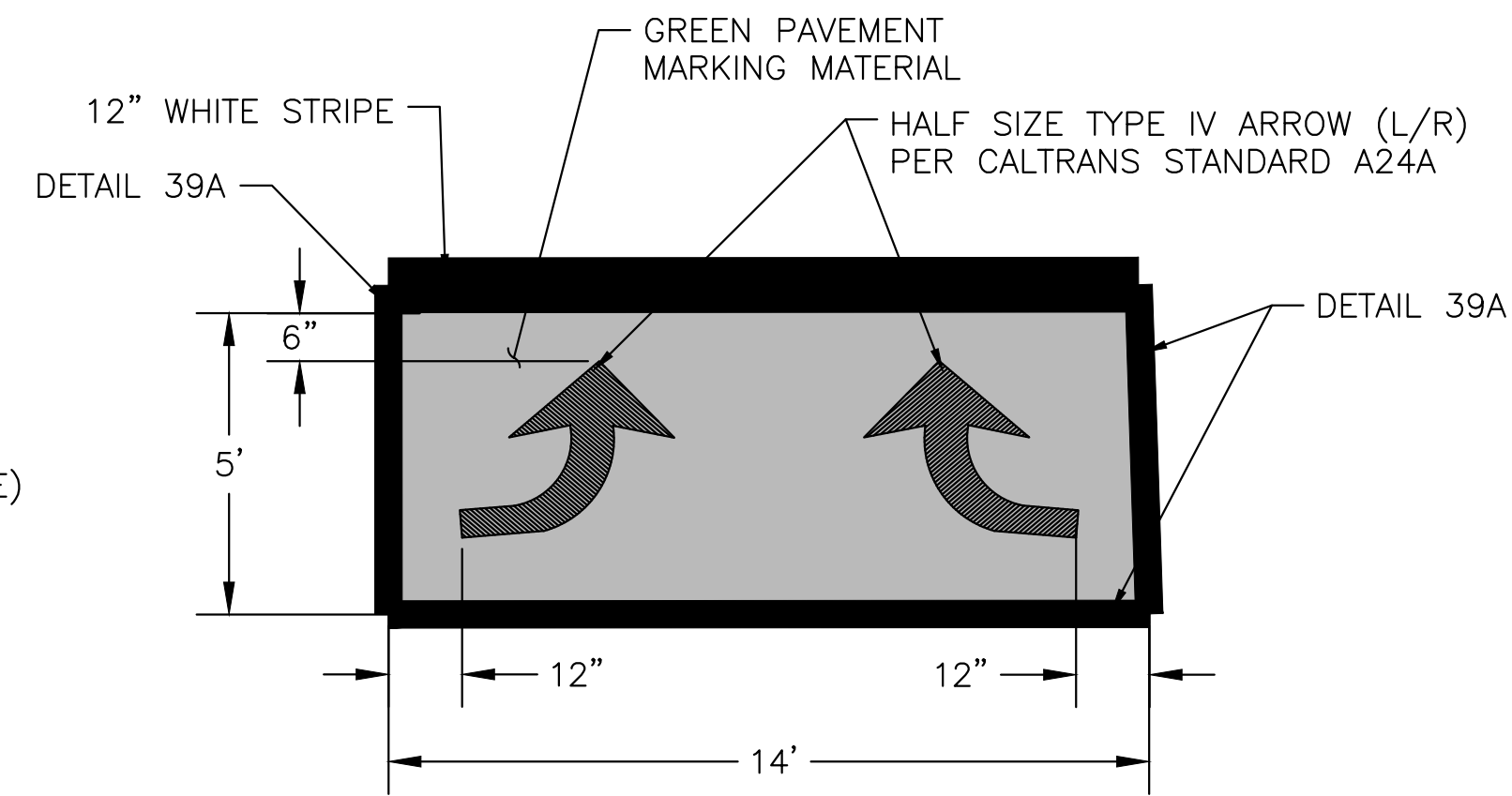
NOTE:

- REFER TO GREEN BIKE LANE INTERSECTION MARKING PER CITY OF OAKLAND DETAIL GB-4 FOR ANGLE AND SPACING OF CHEVRON MARKINGS

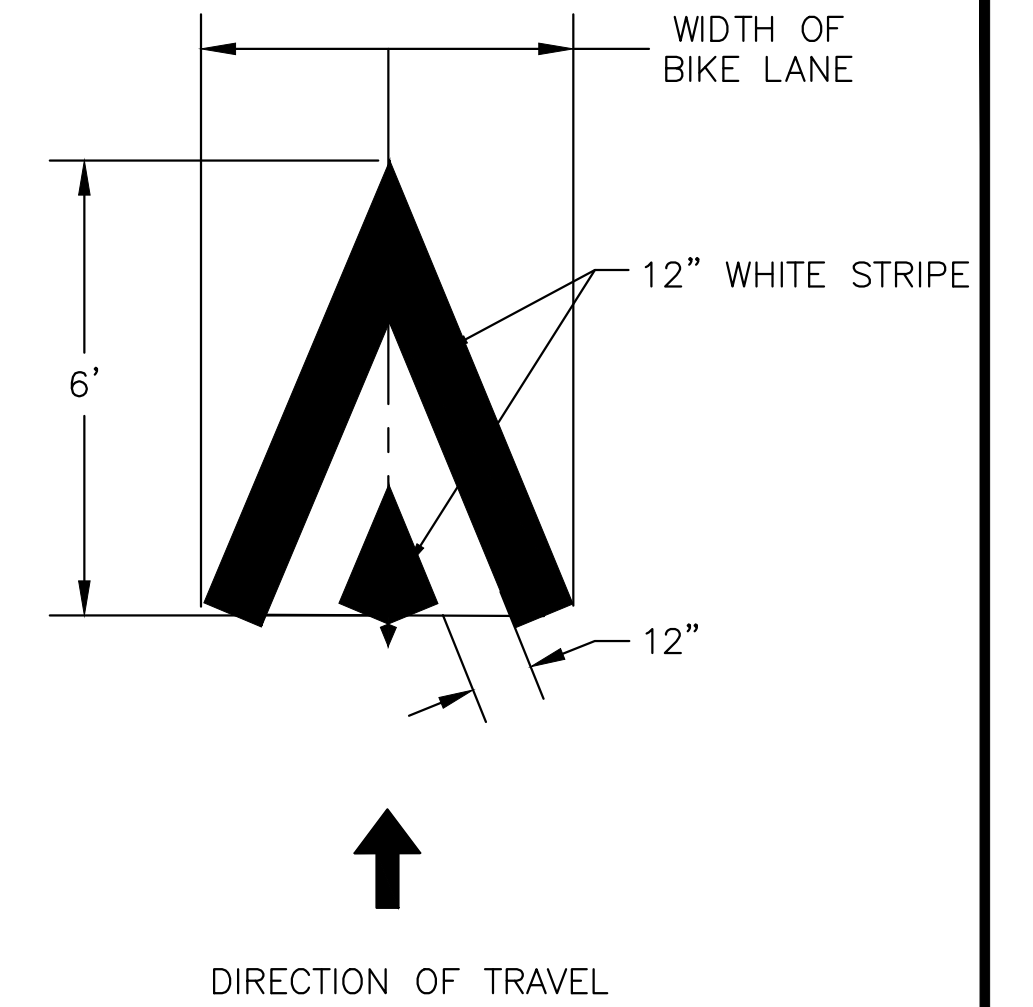
**A** TWO-WAY BIKE CROSSING DETAIL  
T-2.1 SCALE: NTS



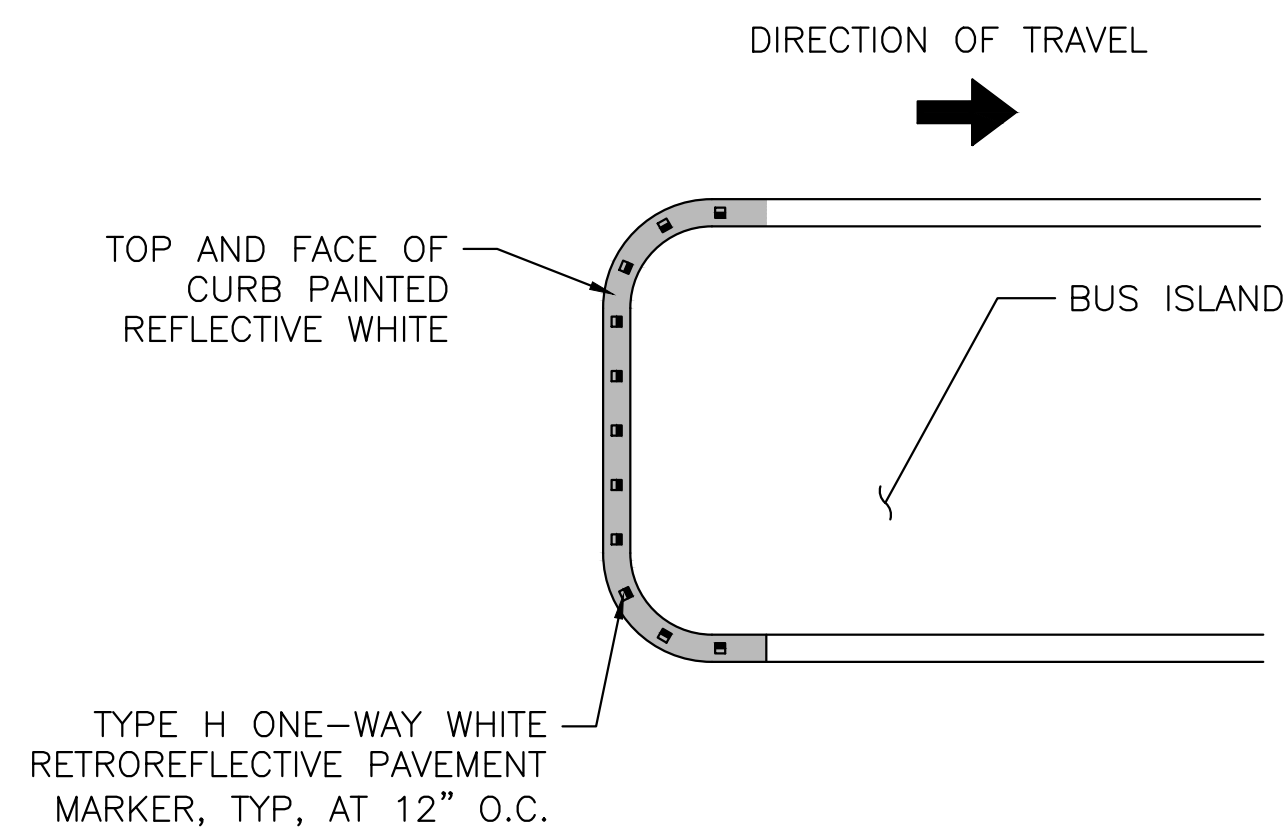
**B** R10-15 (MOD) SIGN  
T-2.1 SCALE: NTS



**C** TWO STAGE QUEUE TURN BOX  
T-2.1 SCALE: NTS



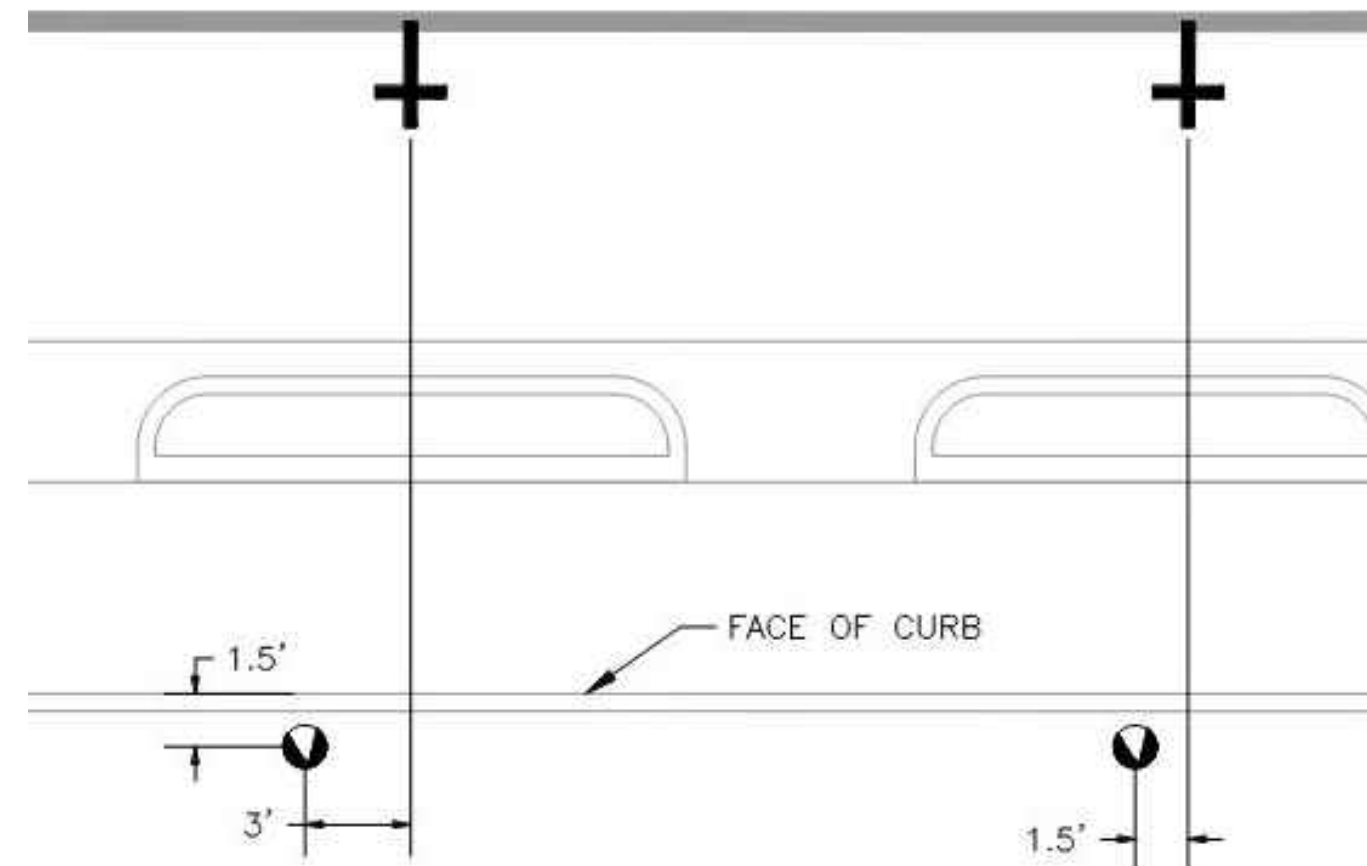
**F** PAVEMENT MARKING FOR BIKE RAMP  
T-2.1 SCALE: NTS



NOTE:

- NUMBER OF MARKERS DEPENDENT ON MEDIAN NOSE WIDTH.

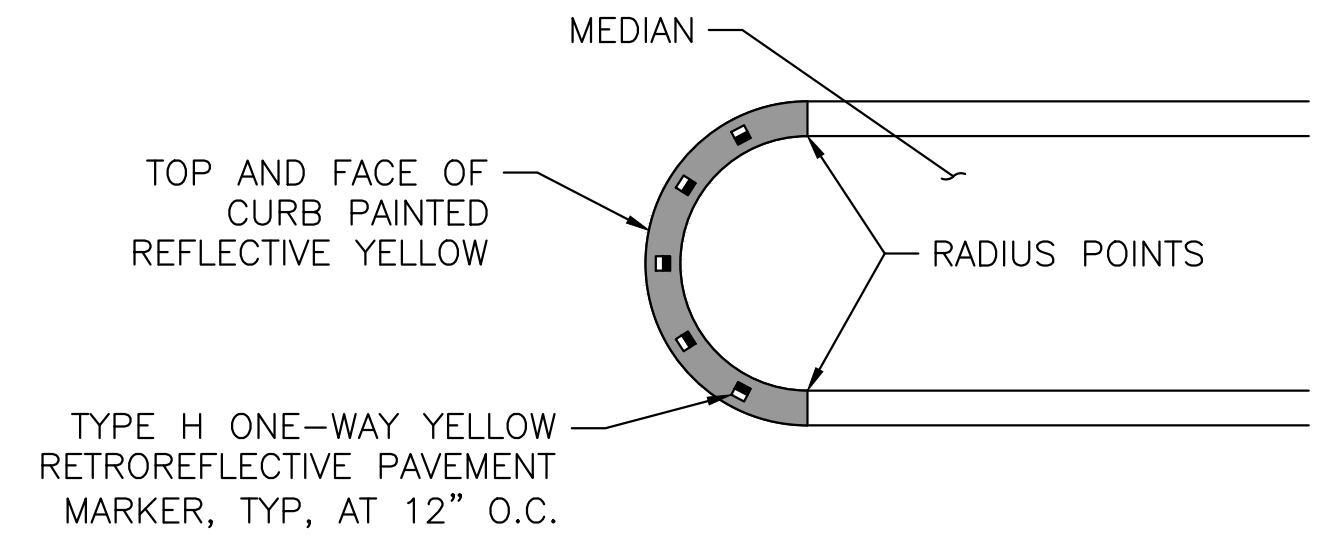
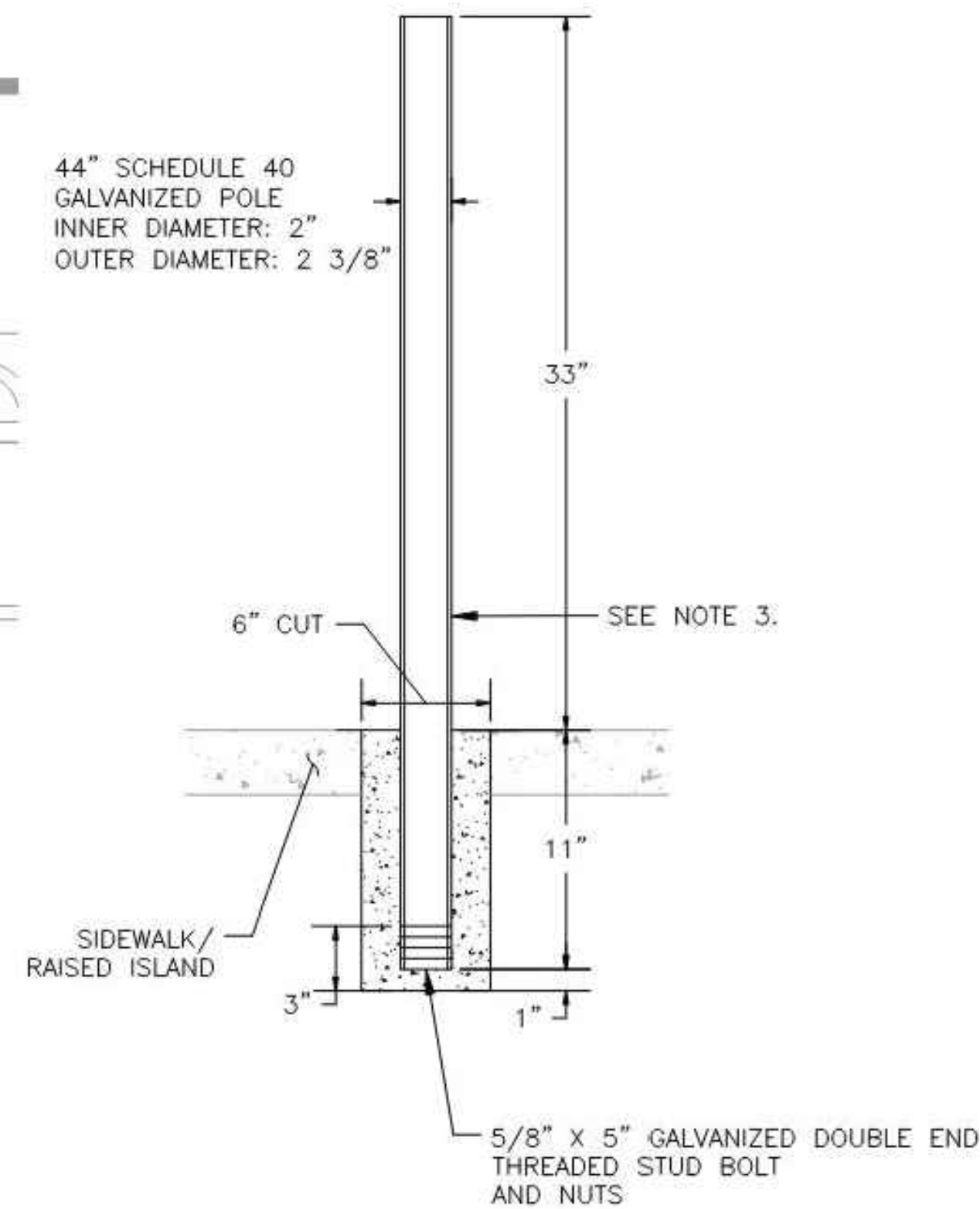
**D** BUS ISLAND MEDIAN NOSE DETAIL  
T-2.1 SCALE: NTS



NOTES:

- METER TO BE INSTALLED 1.5 FT TO 3 FT FROM CENTER OF PARKING TEE AND 1.5 FT FROM FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
- METER TO BE CLEAR OF ANY UTILITY COVERS, TREES, AND STREET FURNITURE.
- 1/2" HOLE TO BE DRILLED INTO (NOT THROUGH) PIPE AT LOCATION NOTED TO RELEASE ANY WATER BUILD-UP AND CREATE AIR CIRCULATION.
- METER POST LOCATION SHALL BE MARKED AND VERIFIED BY THE CONTRACTOR FOR APPROVAL BY THE CITY PRIOR TO INSTALLATION. METER HEAD REMOVAL AND INSTALLATION SHALL BE PERFORMED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ENGINEER PRIOR TO REMOVAL AND INSTALLATION OF METER POST.

**E** PARKING METER INSTALLATION AND POLE DETAIL  
T-2.1 SCALE: NTS



NOTES:

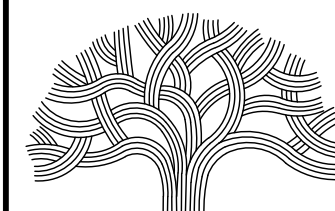
- NUMBER OF MARKERS DEPENDENT ON MEDIAN NOSE WIDTH.

**G** MEDIAN NOSE DETAIL A  
T-2.1 SCALE: NTS

**H** MEDIAN NOSE DETAIL B  
T-2.1 SCALE: NTS



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK				
DRAWN BY JW				

CONSTRUCTION PLANS:

SIGNING & STRIPING DETAILS  
1 OF 1

PROJECT NO.

1004836

SCALE:

AS SHOWN

DATE:

9/16/2023

SHEET NO.

T-2.1

32 OF 58



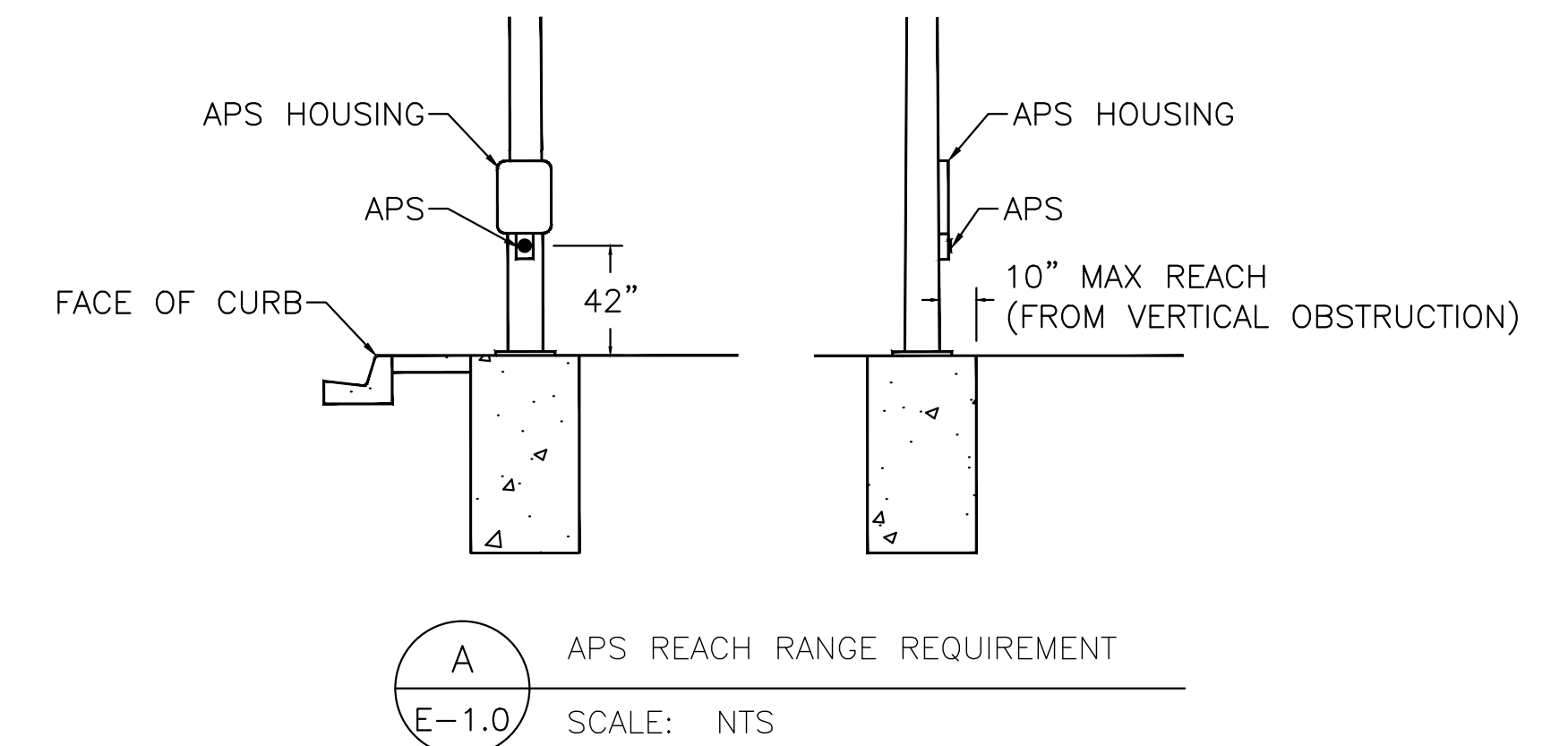
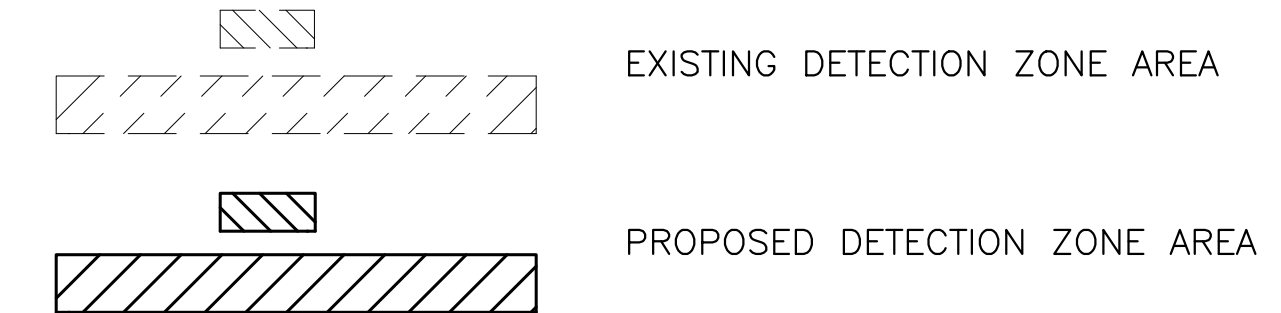
**GENERAL NOTES:**

- THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
- ALL WORK, MATERIAL, AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF OAKLAND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2002 EDITION, THE LATEST CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS AND STANDARDS PLANS, THE LATEST CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE PROJECT SPECIAL PROVISIONS AND WHERE NOTED ON PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR TAKING PROPER PRECAUTIONS TO PROTECT AND AVOID THE EXISTING FACILITIES AND UTILITIES.
- CONTRACTOR SHALL DELIVER THE NEW SIGNAL CONTROLLER TO ELECTRICAL SERVICES AT 7101 EDGEWATER DR., OAKLAND FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CALL (510) 615-5435 AT LEAST FIVE (5) WORKING DAYS PRIOR TO DELIVERY. ALLOW 2 WEEKS FOR TESTING OF EACH CONTROLLER.
- NO EXTENSION OF ANCHOR BOLT IS ALLOWED FOR NEW SIGNAL EQUIPMENT INSTALLATION.
- ALL NEW POLES, STANDARDS, AND CABINETS FOR SIGNAL MODIFICATION WORK SHALL BE PAINTED COLOR BOXWOOD GREEN (RAL 6011) UNLESS OTHERWISE NOTED ON PLAN. ALL NEW RECTANGULAR RAPID FLASHING BEACON (RRFB) POLES SHALL BE GALVANIZED UNLESS OTHERWISE NOTED ON PLANS.
- POSITION OF TRAFFIC SIGNAL, STREET LIGHT, RECTANGULAR RAPID FLASHING BEACON (RRFB) POLES, CONTROLLER AND SERVICE CABINETS, AND FOUNDATIONS SHALL BE MARKED AND VERIFIED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO EXCAVATION. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED. THE CONTRACTOR SHALL VERIFY POSITION BY POTHOLING TO CHECK CONFLICTS WITH UNDERGROUND UTILITIES WITHIN THE SIDEWALK AREA PRIOR TO LAYOUT OF FOUNDATIONS. A MINIMUM OF TWO (2) DAYS NOTICE IS REQUIRED.
- CONDUITS TERMINATING IN A CURB BOX SHALL BE BROUGHT INTO THE BOX ON A GRADUAL UPWARD SWEEP OF UP TO 45 DEGREES. NO 90 DEGREE BENDS INTO THE BOX WILL BE ACCEPTED.
- UNLESS OTHERWISE NOTED, CONDUITS SHALL BE 3" HIGH DENSITY POLYETHYLENE (HDPE) SCH 80 FOR SIGNAL AND 2" HDPE FOR STREET LIGHTING, SMOOTH WALL AS MANUFACTURED BY DURA-LINE OR APPROVED EQUAL. RIGID STEEL CONDUIT SHALL BE INSTALLED BETWEEN CURB BOX AND POLE FOUNDATIONS. THE CONDUIT FOR THE PG&E SERVICE TO THE SERVICE CABINET PANEL SHALL BE 3" PVC SCH 80.
- ALL PULL BOXES SHALL BE LOCKABLE TYPE. ALL CURB BOXES SHALL BE PRECAST, NON-CONCRETE BOLT-DOWN TYPE NO. 6 FOR TRAFFIC SIGNAL, NO. 5 FOR STREET LIGHTING AND NO. 6(E) WITH 12" EXTENSION FOR SIGNAL INTERCONNECT CABLE/FIBER OPTIC CABLE UNLESS OTHERWISE NOTED. SEE CITY OF OAKLAND STANDARD DETAIL E-9.
- TAG ALL WIRES AND CABLES IN CURB BOXES PER CITY OF OAKLAND STANDARD DRAWING E-34.
- ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE MUNICIPAL SERVICE CENTER AT 7101 EDGEWATER DR., OAKLAND. CONTACT THE ELECTRICAL CONSTRUCTION & MAINTENANCE PLANNER AT (510) 615-5435 AT LEAST 48 HOURS PRIOR TO DELIVERY. CONTRACTOR SHALL DISASSEMBLE SIGNAL MOUNTING HARDWARE FROM POLE AND VEHICLE HEADS PRIOR TO DELIVERY OF SALVAGED EQUIPMENT.
- CONTRACTOR SHALL CALL THE CITY OF OAKLAND ELECTRICAL DEPARTMENT AT (510) 615-5435 AND THE OFFICE OF INFORMATION TECHNOLOGIES AT (510) 238-2996 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK FOR FIELD MARKING OF ALL CITY ELECTRICAL FACILITIES. CONTRACTOR SHALL ALSO CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE STARTING WORK TO MARK LOCATIONS OF ALL OTHER UTILITIES.
- FOR ELECTRICAL STANDARD SYMBOLS AND ABBREVIATIONS, SEE CALTRANS STANDARD PLANS ES-1A, ES-1B, AND ES-1C OF THE LATEST CALTRANS STANDARD PLANS.
- REFER TO SPECIFICATIONS AND SPECIAL PROVISIONS FOR SPECIAL REQUIREMENTS REGARDING DAMAGE TO CITY ELECTRICAL FACILITIES DURING CONSTRUCTION.
- CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN FENCES, BARRICADES, LIGHTS, SIGNS, AND ANY OTHER DEVICES NECESSARY TO PREVENT ACCIDENTS, DAMAGES OR INJURIES TO THE PUBLIC WITHOUT COST TO THE OWNER OR THE CITY AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK DONE BY THEIR SUBCONTRACTORS INCLUDING TRAFFIC CONTROL, CONCRETE CONSTRUCTION WORK AND OTHERS.

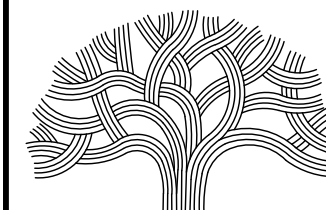
- ALL 120V STREET LIGHTS, VIDEO CAMERAS, AND INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE PROTECTED BY IN-LINE FUSE HOLDERS (HEB-A4) WITH 5 AMPS KTK. 240V STREET LIGHTS SHALL BE PROTECTED BY DOUBLE IN-LINE FUSE HOLDERS (HEX-11) WITH 5 AMP KTK FUSES.
- INSTALL 5C#14 SIGNAL CABLE BETWEEN ALL TRAFFIC SIGNAL MAST ARM SIGNAL HEADS AND SIDE MOUNT ADAPTORS.
- ALL CONDUIT AND FOUNDATION WORK SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE BACKFILLING OR POURING CONCRETE.
- ALL CONDUIT SHALL BE INSTALLED BY TRENCHING PER SECTION 701-12.1. NO BORING IS ALLOWED.
- CONDUIT FOR FUTURE FIBER OPTIC CABLE (SIGNAL INTERCONNECT) SHALL BE 3" HDPE AND BE AT LEAST 36" BELOW GRADE.
- ALL VIDEO DETECTION ZONES SHALL BE 6'X50' UNLESS NOTED OTHERWISE.
- ALL VIDEO DETECTION CAMERAS TO BE MOUNTED ON LUMINAIRE MAST ARMS WHERE POSSIBLE. CAMERAS MOUNTED ON SIGNAL MAST ARMS TO HAVE EXTENSIONS TO ATTAIN 25' MINIMUM CAMERA HEIGHT AND SHALL BE APPROVED BY THE ENGINEER.
- GPS CLOCK SHALL BE INSTALLED TO THE CONTROLLER ASSEMBLY.
- ALL EXISTING STREET LIGHT SYSTEMS TO BE MODIFIED SHALL REMAIN IN OPERATION UNTIL FINAL CONNECTIONS ARE MADE.
- CONTRACTOR MUST PROVIDE TEMPORARY STREET LIGHTING IF EXISTING STREET LIGHT OPERATION IS INTERRUPTED PRIOR TO CONNECTION OF NEW LIGHTS.
- ALL EXISTING CONCRETE STREET LIGHTING AND TRAFFIC SIGNAL CURB BOXES WITHIN PROJECT LIMITS SHALL BE REPLACED WITH NEW CITY STANDARD FIBRELYTE CURB BOXES.
- CONTRACTORS SHALL BE RESPONSIBLE FOR ADJUSTING ALL NEW AND EXISTING CURB BOXES TO MATCH FINISH SIDEWALK GRADE.
- ALL INTERCONNECT PULL BOXES SHALL BE LABELED "CITY OF OAKLAND INTERCONNECT".
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL PULL BOX CONTENTS AFFECTED BY WORK TO ITS ORIGINAL STATE.
- CONTRACTOR SHALL CONTACT CITY ELECTRICAL TO VERIFY EXISTING STREET LIGHT CIRCUIT PRIOR TO CONSTRUCTION TO DETERMINE WIRING NEEDS. CONTRACTOR IS RESPONSIBLE FOR WIRING ALL EXISTING AND NEW LIGHTING TO ENSURE A FULLY FUNCTIONAL LIGHTING SYSTEM.
- NO SPLICING OF COAXIAL CABLES IS ALLOWED.
- ALL LOCATIONS WHERE NEW ACCESSIBLE PEDESTRIAN SYSTEM IS INSTALLED, CONTRACTOR SHALL REMOVE EXISTING AUDIBLE AND WIRING, AND PLUG HOLES ON THE STANDARD.
- WHERE AN OBSTRUCTION (CURB) IS LOCATED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE APS, THE SIDE REACH DEPTH SHALL BE 10 INCHES MAXIMUM. SEE DETAIL A ON THIS SHEET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRANSIT SIGNAL PRIORITY (TSP) OR OTHER INTELLIGENT TRANSPORTATION SYSTEMS (ITS) ELEMENTS INCLUDING FIELD EQUIPMENT AND INFRASTRUCTURE WHICH MAY NOT BE SHOWN IN PLANS DURING CONSTRUCTION PER REQUIREMENTS IN THE SPECIAL PROVISIONS. CONSTRUCTION ACTIVITIES REQUIRING ELEMENTS TO BE NON-OPERATIONAL OR OFFLINE REQUIRE APPROVAL BY THE ENGINEER PRIOR TO COMMENCING.
- ALL POLE TYPES AND LOCATION TO BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

**LEGEND:**

- AB** ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
- BC** INSTALL PULL BOX IN EXISTING CONDUIT RUN
- CB** INSTALL CONDUIT INTO EXISTING PULL BOX
- FA** FOUNDATION TO BE ABANDONED
- RS** REMOVE AND SALVAGE EQUIPMENT
- RL** RELOCATE EXISTING EQUIPMENT
- RR** REMOVE AND REUSE EXISTING EQUIPMENT
- SC** SPLICE NEW TO EXISTING CONDUCTORS



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SL/SK				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

ELECTRICAL NOTES AND LEGEND

PROJECT NO.  
**1004836**

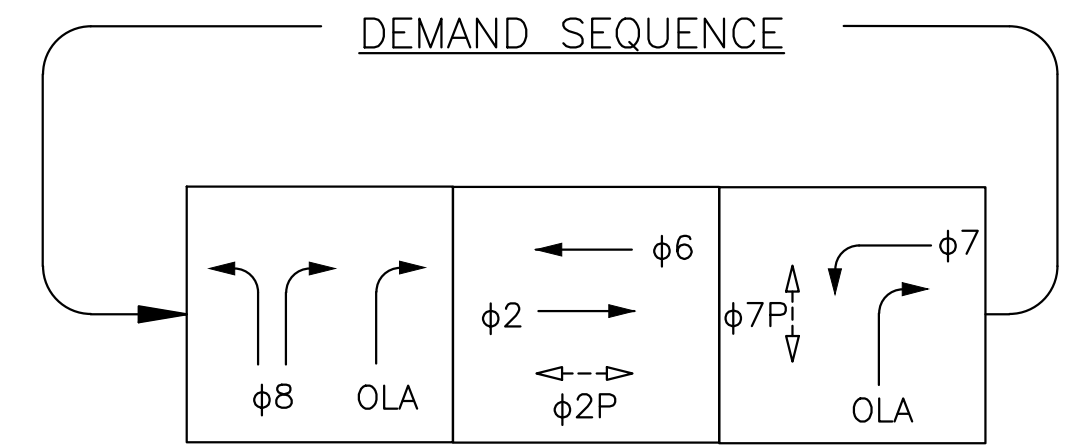
SCALE: AS SHOWN  
DATE: 10/25/2023  
SHEET NO. **E-1.0**  
52 OF 58

DRAWING NAME: \\oakland\cdo\GreatStreetsDelivery\PROJECTS\CSD\1. ACTIVE\1004836 - Lakeside Family Streets (ES)2. DESIGN\NO. CAD\2. Sheets\E-1.0.dwg  
PLOT DATE: 11-09-23  
PLOTTED BY: wangjg



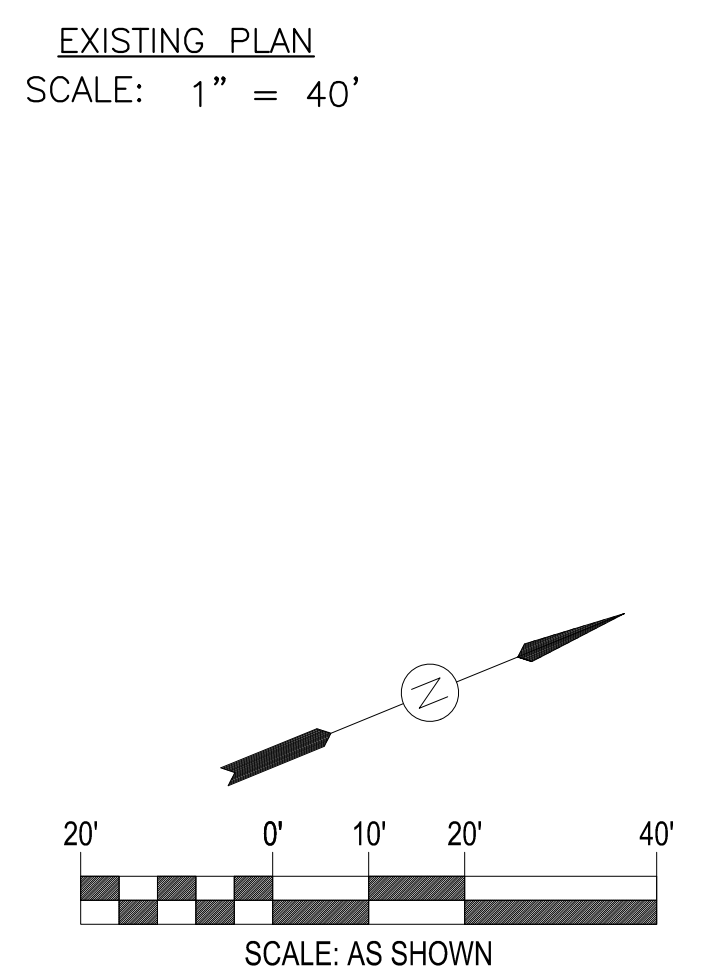
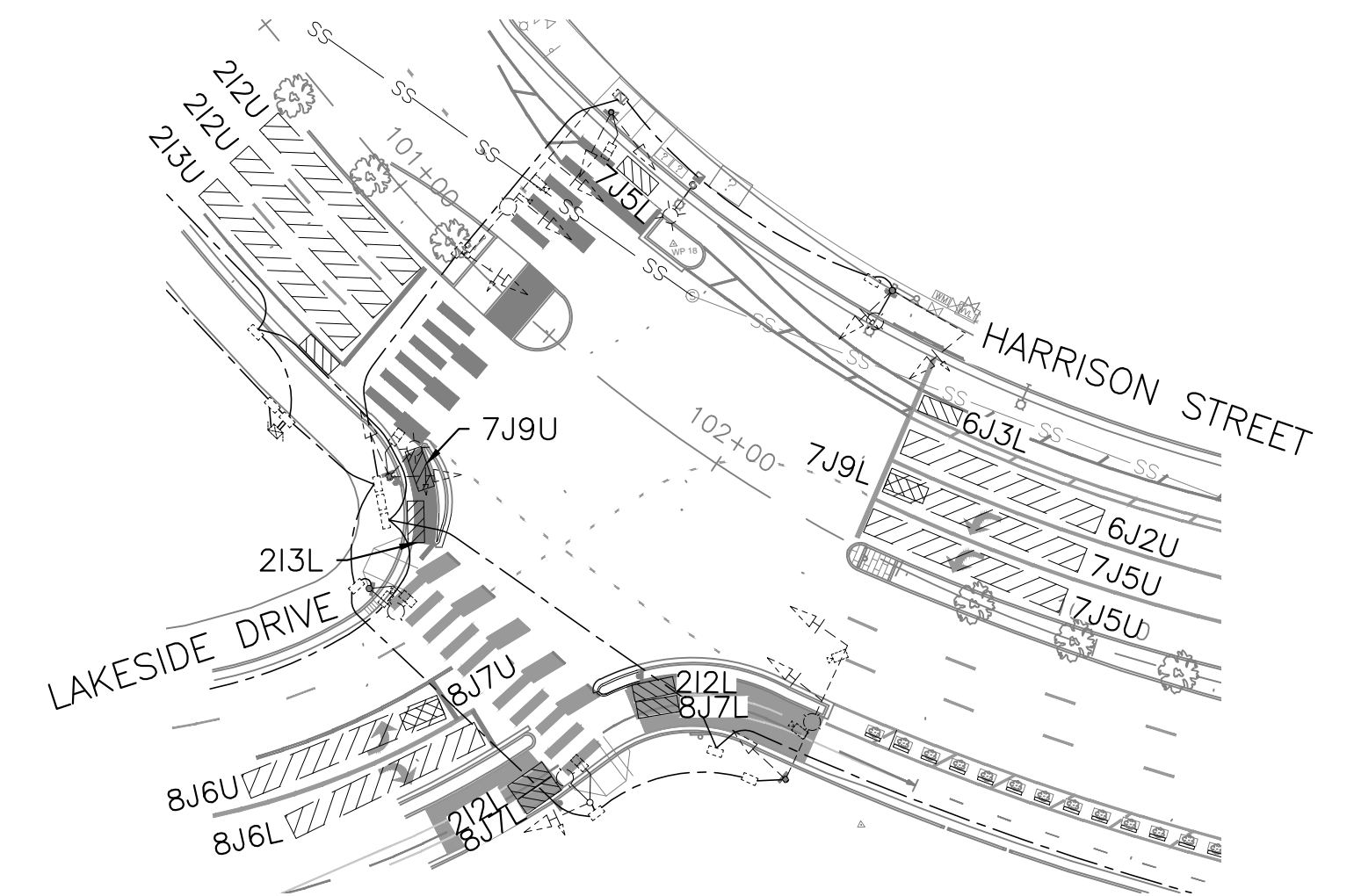
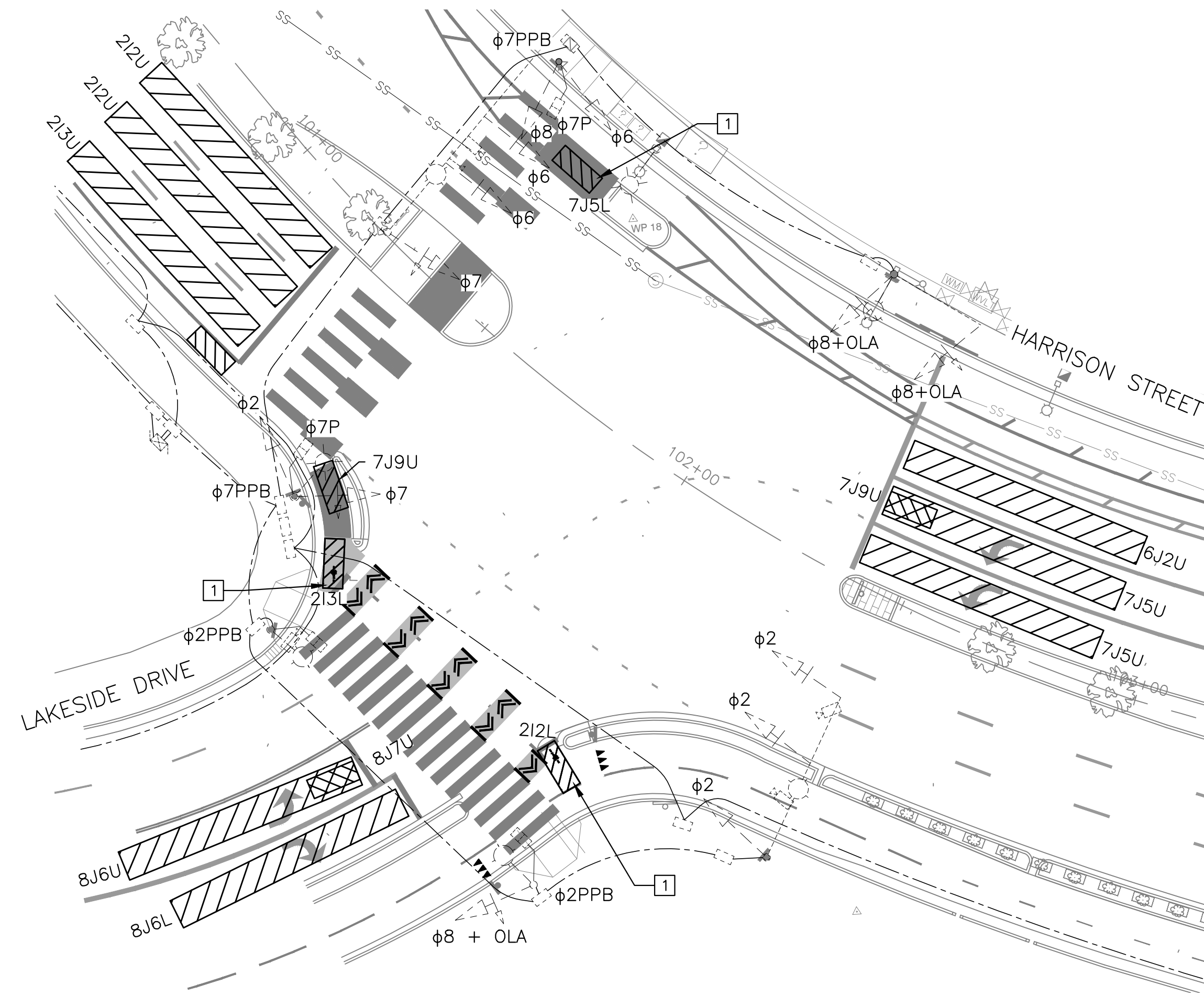
CONSTRUCTION NOTES:

- 1 REPROGRAM EXISTING BICYCLE DETECTION ZONE AND ADJUST CAMERA LOCATION AS NEEDED FOR VIDEO DETECTION ZONES AS SHOWN ON THE PLAN

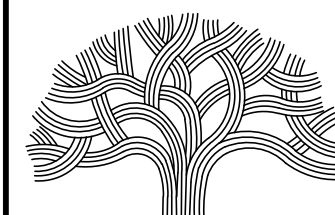


EXISTING PHASE DIAGRAM TO REMAIN

- $\phi 2/\phi 6/\phi 7$  - HARRISON STREET
- $\phi 8$  - LAKESIDE DRIVE
- OLA =  $\phi 7 + \phi 8$
- EVA -  $\phi 2$
- EVB -  $\phi 8$
- EVC -  $\phi 7$



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SK/SL				
DESIGNED BY SK/JW				
DRAWN BY JW				

CONSTRUCTION PLANS:

ELECTRICAL PLAN  
HARRISON STREET / LAKESIDE DRIVE

PROJECT NO.

1004836

SCALE: AS SHOWN

SHEET NO. E-1.1

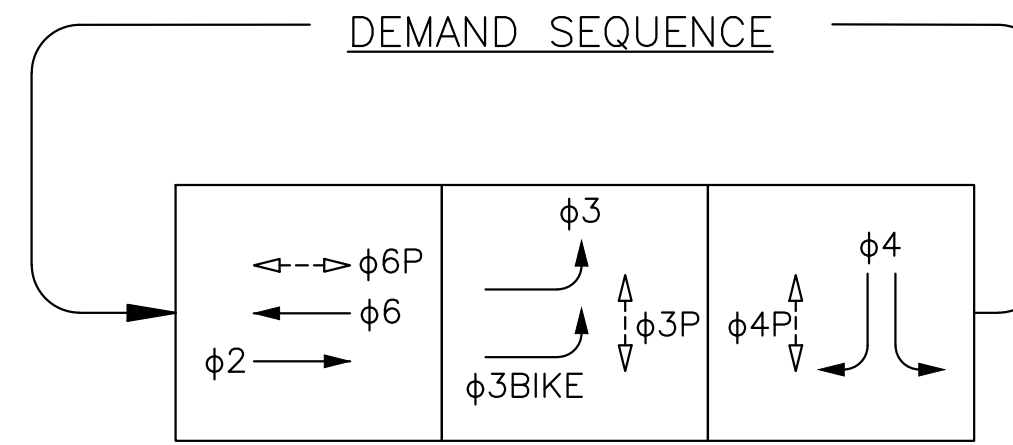
DATE: 10/25/2023

53 OF 58



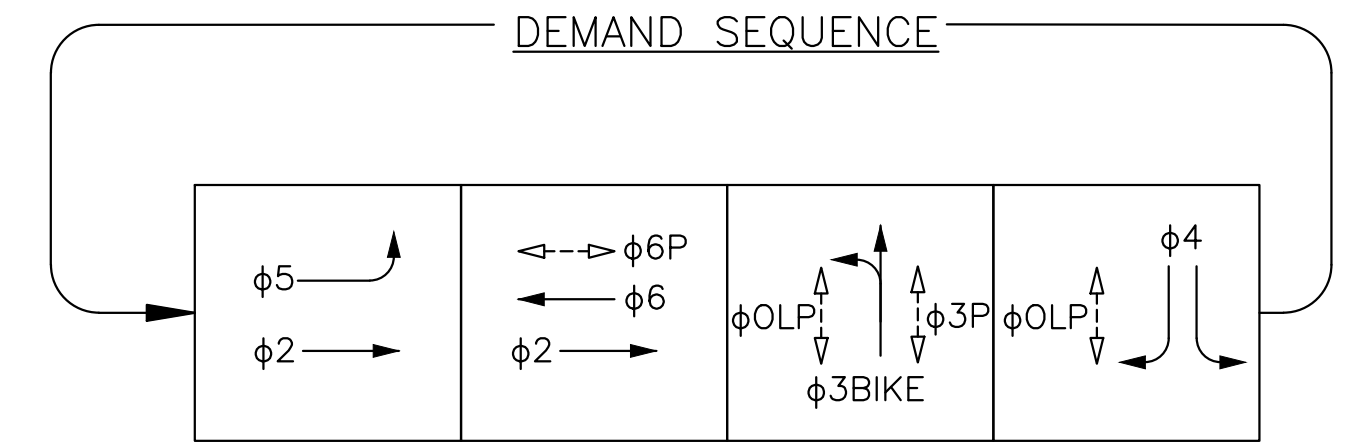
CONSTRUCTION NOTES:

- 1 CONTRACTOR SHALL BE RESPONSIBLE TO REWIRE THE TRAFFIC SIGNAL SYSTEM, DETECTION SYSTEM TO THE NEW PHASE ASSIGNMENTS.



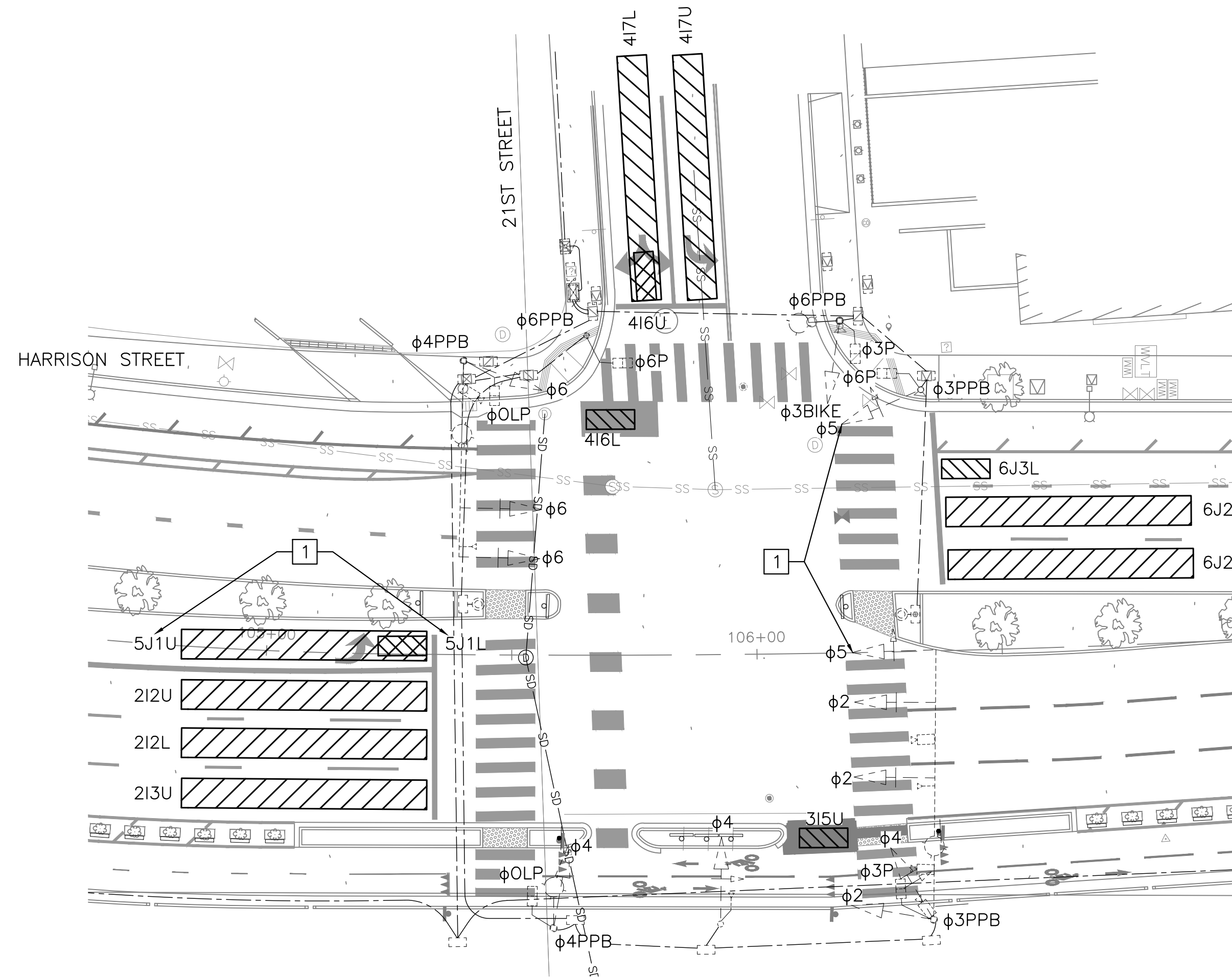
EXISTING PHASE DIAGRAM

φ2/φ3/φ6 - HARRISON STREET  
 φ4 - 21ST STREET  
 EVA - φ2  
 EVB - φ4  
 EVC - φ6

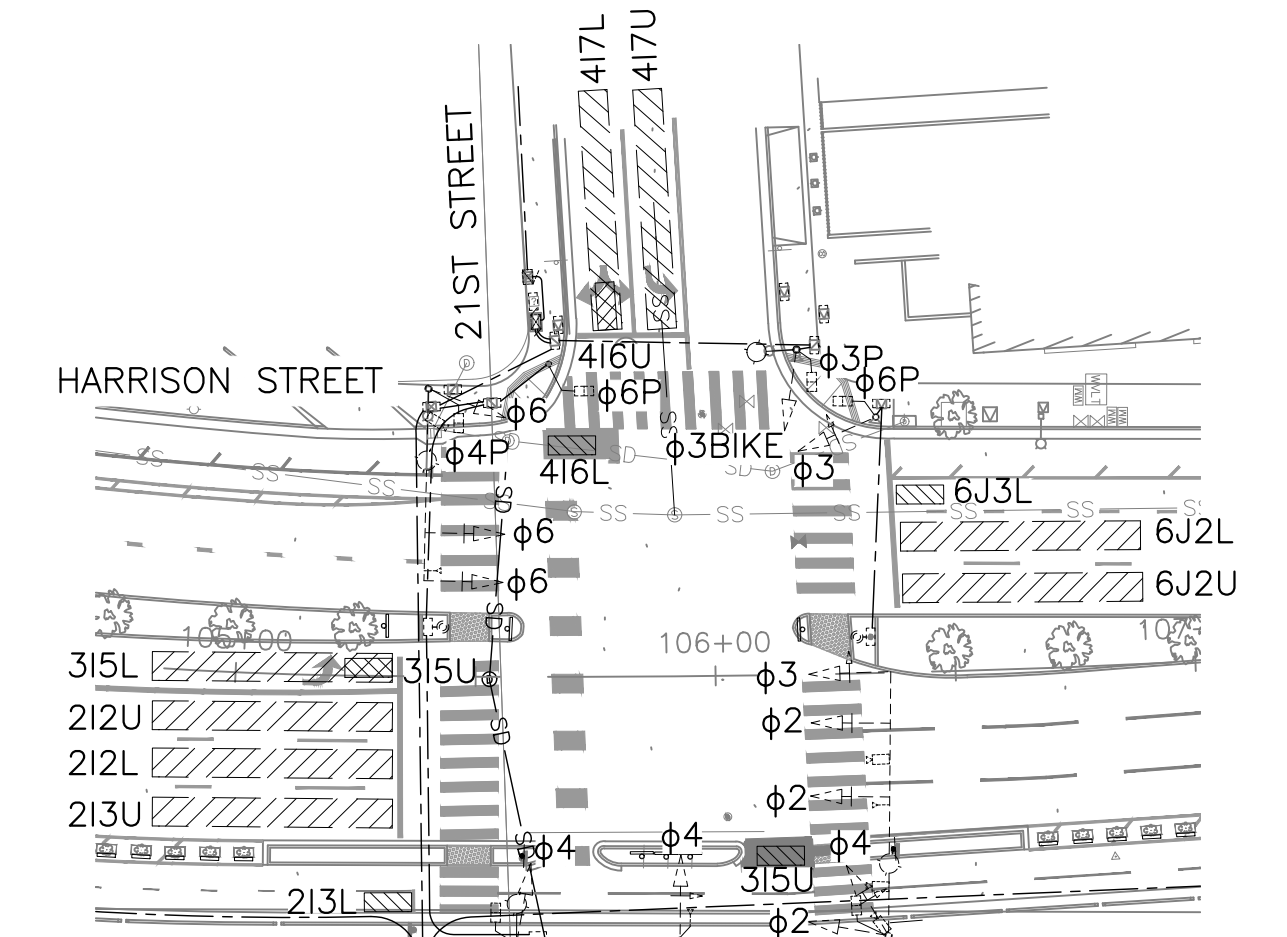


PROPOSED PHASE DIAGRAM

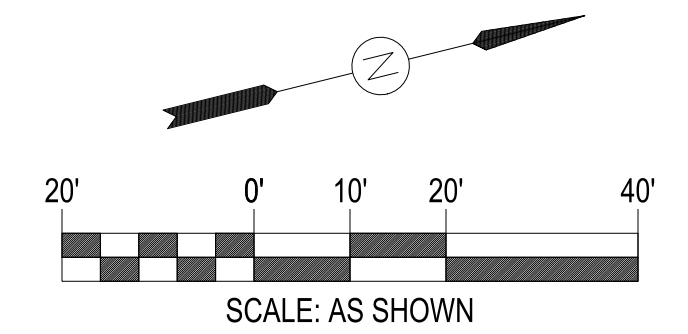
φ2/φ5/φ6 - HARRISON STREET  
 φ3/φ4 - 21ST STREET  
 OLP = φ3BIKE + φ4  
 EVA - φ2 + φ5  
 EVB - φ4  
 EVC - φ6



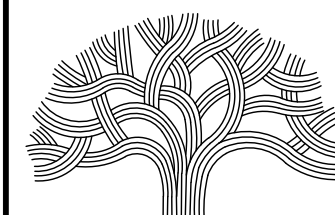
PROPOSED PLAN  
 SCALE: 1" = 20'



EXISTING PLAN  
 SCALE: 1" = 40'



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SK/SL				
DESIGNED BY SK/JW				
DRAWN BY JW				

CONSTRUCTION PLANS:

ELECTRICAL PLAN  
 HARRISON STREET / 21ST STREET

PROJECT NO.

1004836

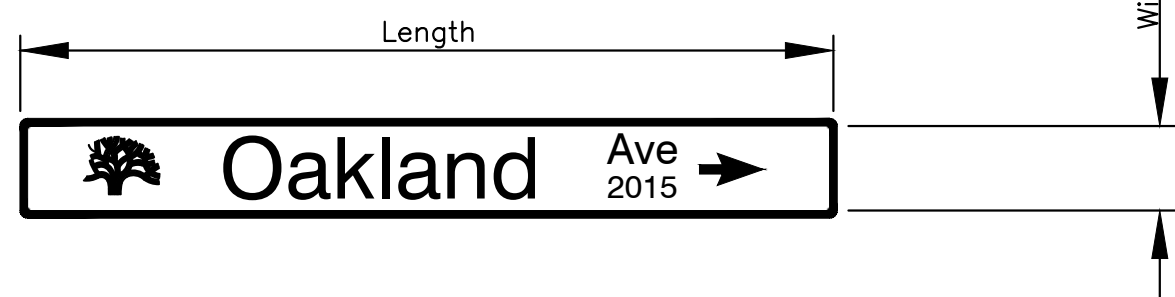
SCALE: AS SHOWN  
 DATE: 10/25/2023

SHEET NO. E-1.2  
 54 OF 58



CONSTRUCTION NOTES:

- 1 INSTALL SIGNAL STANDARD, PUSH BUTTON POST, AND FOUNDATION PER POLE AND EQUIPMENT SCHEDULE.
- 2 INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN (IISNS) ON SIGNAL MAST ARM. SEE DETAIL 'A' THIS SHEET.
- 3 INSTALL PEDESTRIAN PUSH BUTTON (PPB).
- 4 INSTALL NEW VIDEO DETECTION CAMERA PER POLE AND EQUIPMENT SCHEDULE. CONTRACTOR SHALL REPROGRAM VIDEO DETECTION ZONES.
- 5 INSTALL CA MUTCD R3-2 SIGN TO NEW SIGNAL MAST ARM.
- 6 INSTALL NEW EVP.
- 7 REPLACE EXISTING PULL BOX WITH NEW TRAFFIC GRADED NO. 6 PULLBOX.
- 8 INSTALL NEW NO. 5 PULLBOX AND 3" C WITH PULL ROPE (FOR FUTURE USE).
- 9 REINSTALL EXISTING CCTV CAMERA AND GPS UNIT ON SIGNAL POLE.
- 10 RELOCATE AND/OR ADJUST EXISTING PULL BOX.
- 11 REPLACE EXISTING PEDESTRIAN PUSH BUTTON.
- 12 CONNECT NEW AND EXISTING CONDUIT. BRING EXISTING CABLES AND CONDUITS TO NEW CONDUIT.



**LETTER AND SYMBOL SIZE**

UPPER CASE = 8"  
 LOWER CASE = 6"  
 CITY OF OAKLAND EMBLEM = 8" X 12"  
 ST, RD, BLVD, LP, PL, DR, AVE = 4"  
 BLOCK NUMBER = 3"  
 ARROWS = 8" X 8"

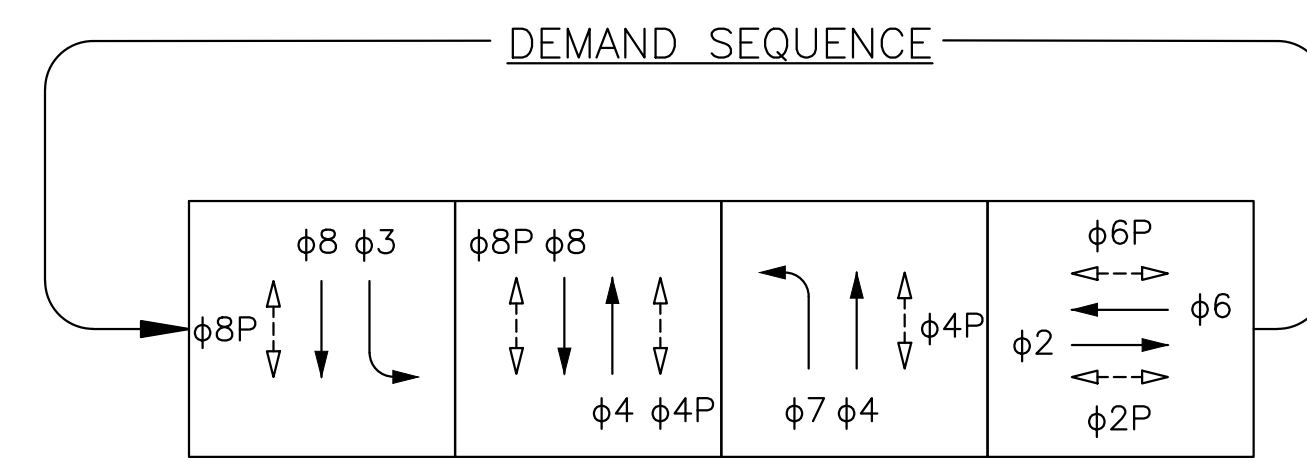
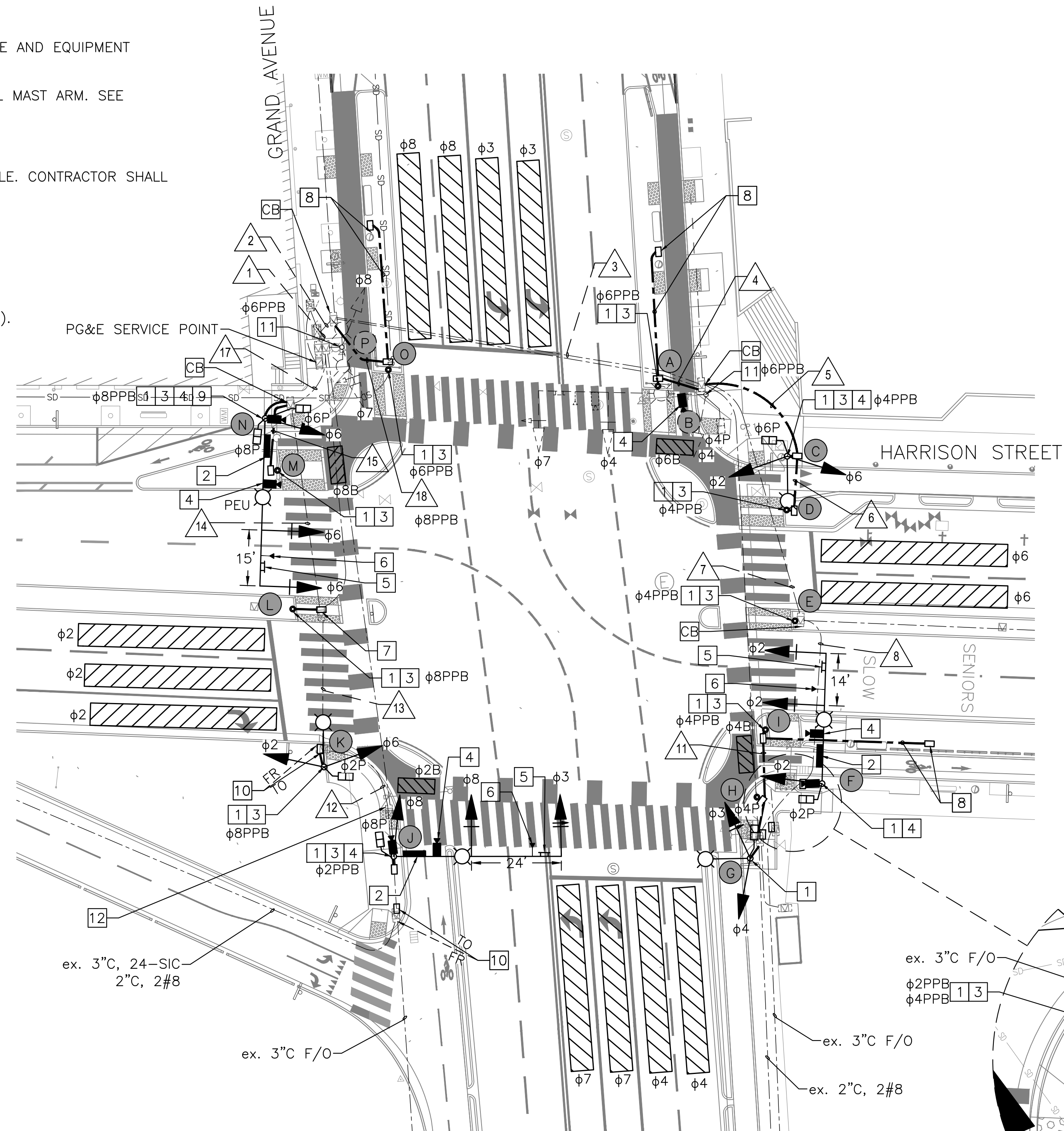
**COLOR**

BACKGROUND = GREEN  
 LETTERS/SYMBOL = WHITE

**SIZE**

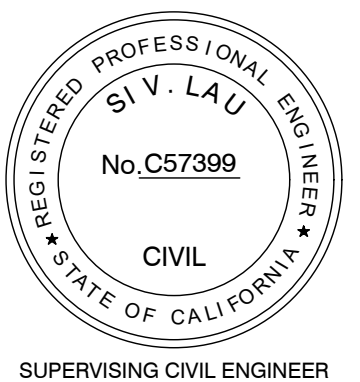
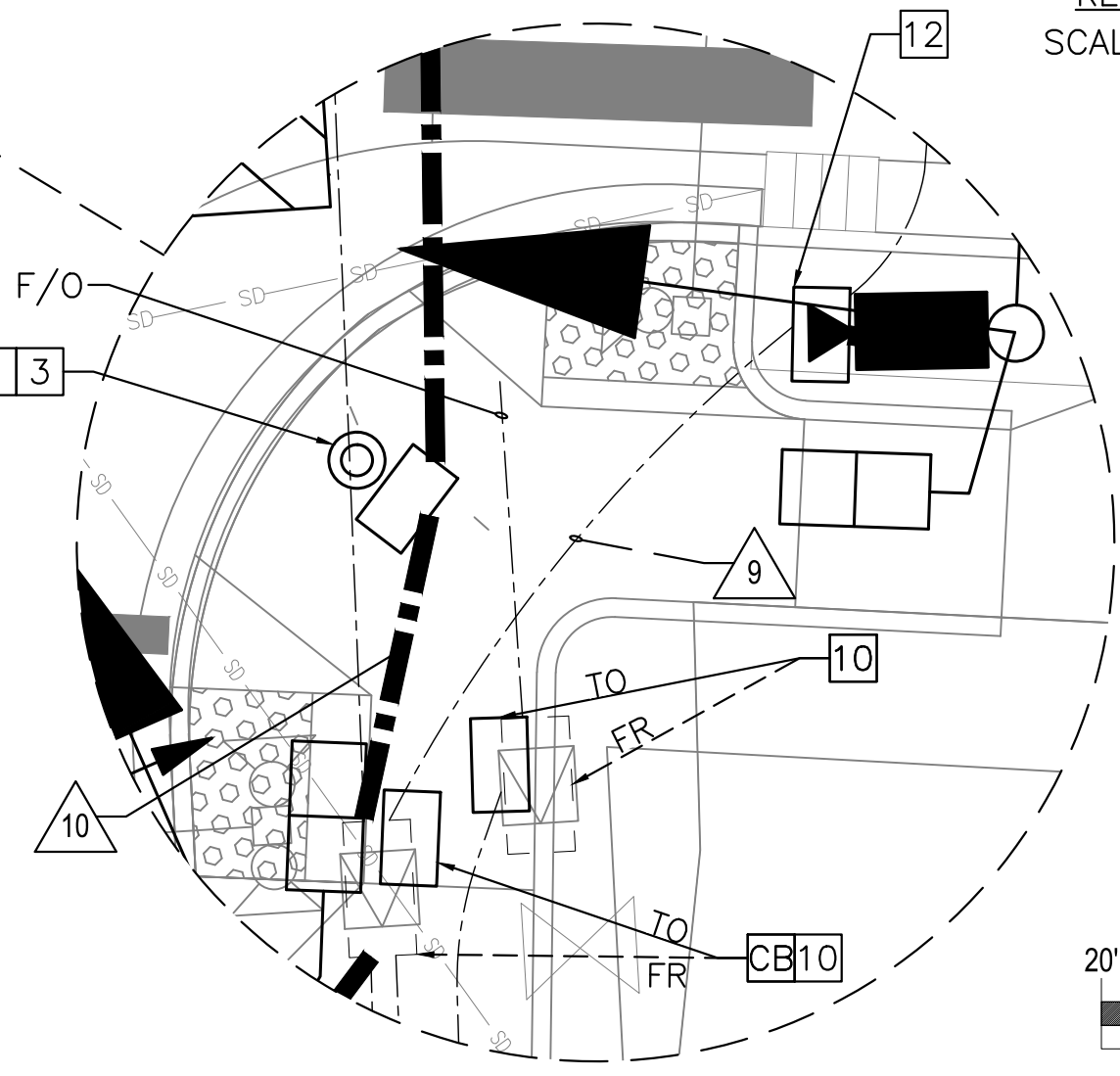
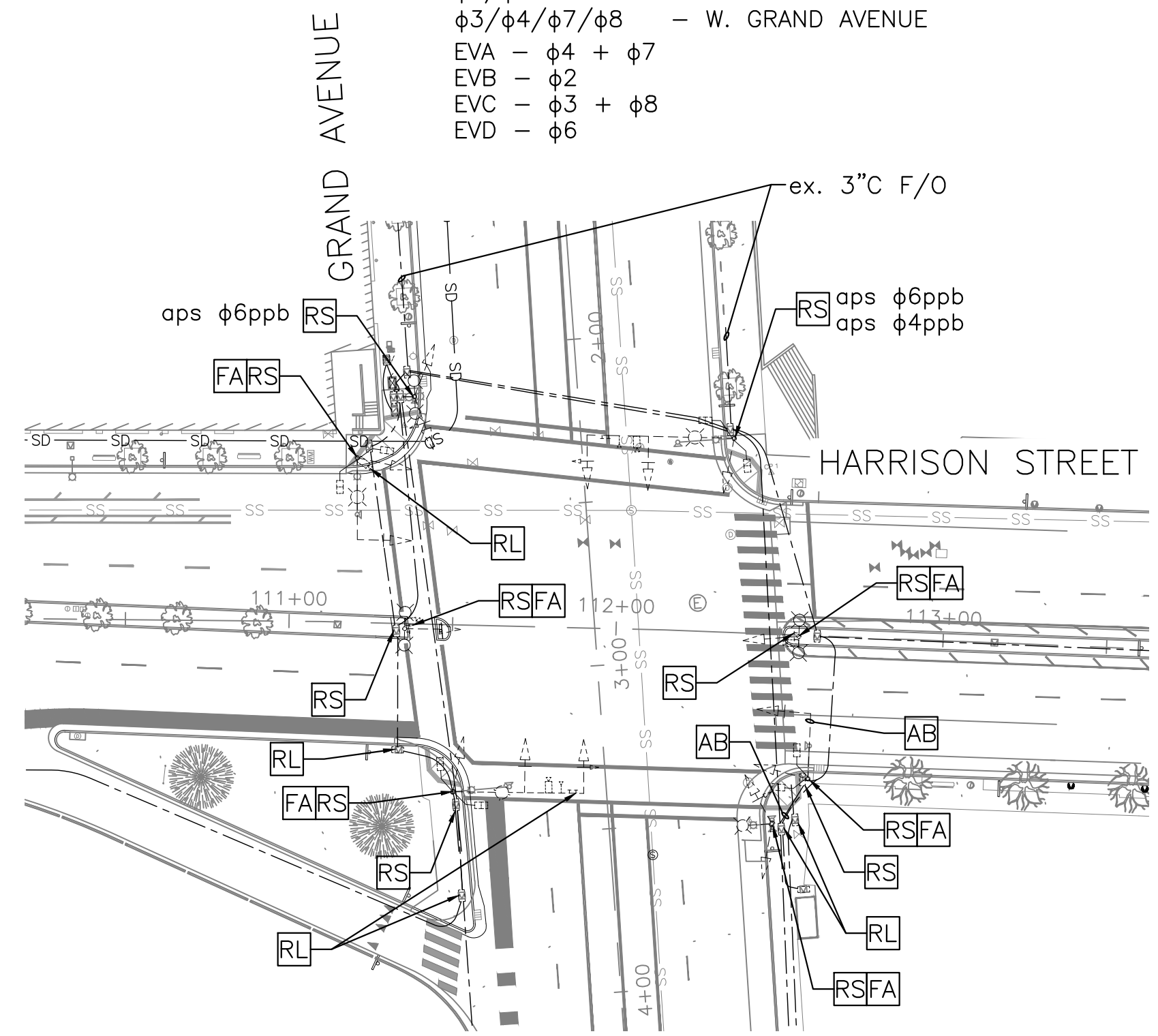
WIDTH = 20.69"  
 LENGTH = 6' TO 8'

1. PRIOR TO INSTALLATION, CONTRACTOR SHALL PROVIDE TO THE CITY A COMPLETE SET OF SUBMITTALS SPECIFYING PROPOSED LETTER SIZE, SYMBOLS, COLORS, BACKGROUND, AND LOCATION INFORMATION FOR CITY'S FINAL REVIEW AND APPROVAL.
2. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL PERTINENT INFORMATION INSTALLING THE IISNS.
3. ALL IISNS TO BE DOUBLE SIDED.

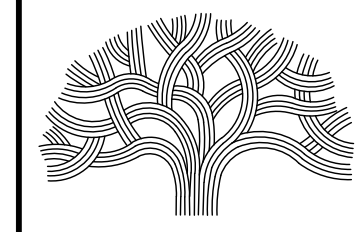


EXISTING PHASE DIAGRAM TO REMAIN

- φ2/φ6 - HARRISON STREET
- φ3/φ4/φ7/φ8 - W. GRAND AVENUE
- EVA - φ4 + φ7
- EVB - φ2
- EVC - φ3 + φ8
- EVD - φ6



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SK/SL				
DESIGNED BY DA/JW				
DRAWN BY DA/JW				

CONSTRUCTION PLANS:

ELECTRICAL PLAN  
 HARRISON STREET / GRAND AVENUE

PROJECT NO.	
<b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>E-1.3</b>
DATE: 10/02/2023	55 OF 58

DRAWING NAME: Lakeside Family Streets Delivery PROJECTS/CDT1.ACTIVE/1004836 - Lakeside Family Streets (E)1.2 DESIGN/0 - CAD/2. SHEETS/E-1.3 (grand).dgn PLOTTED BY: wang93

CABLE/CONDUCTOR SCHEDULE																		
CONDUCTOR DESIGNATION	No. OF CONDUCTORS/RUN No.																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
<b>SIGNAL CABLE (12C#14 TS)</b>																		
'A' CABLE - (φ4, φ7, φ4P)	1	1																
'B' CABLE - (φ2, φ6, φ2P, φ6P)	1	1		1	1	1	1											
'C' CABLE - (φ3, φ4, φ4P)	1	1		1	1	1	1	1										
'D' CABLE - (φ7, φ8, φ6P)	1																1	
'E' CABLE - (φ6, φ8, φ6P, φ8P)	1														1		1	
'F' CABLE - (φ2, φ6, φ2P)	1										1	1	1	1	1		1	
'G' CABLE - (φ3, φ8, φ8P)	1										1	1	1	1	1		1	
TOTAL SIGNAL CABLES	7	3	0			2	2	2	1		0	1	2	2	2	3	0	4
<b>AUDIBLE PPB (3C#14 AWG)</b>																		
φ2P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
φ4P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
φ6P	1	1	1															1
φ8P	1												1	1	1	1		1
TOTAL AUDIBLE PPB CABLES	4	3	3	2	2	2	2	2	2	2	1	1	2	2	2	2	1	1
<b>VIDEO DETECTION</b>																		
φ2	1	1		1	1	1	1											
φ4, φ7	1	1																1
φ6	1																	1
φ8, φ3	1											1	1	1	1	1		1
φ2b	1	1		1	1	1	1											
φ4b	1	1																
φ6b	1																	1
φ8b	1											1	1	1	1	1		1
TOTAL VIDEO DETECTION CABLE	8	4	0	2	2	2	2	0	0	0	2	2	2	2	2	4	0	4
VIDEO POWER CABLE	1	1		1	1	1	1					1	1	1	1	1		1
<b>#8 CONDUCTORS (THHN/THWN)</b>																		
120/240V LIGHTING	2	2		2	2	2	2	2			2	2	2	2	2			2
EQUIPMENT BOND WIRE (GRN)	1	1		1	1	1	1	1			1	1	1	1	1			1
TOTAL #8 CONDUCTORS		3	0		3	3	3	3			0	3	3	3	3	3	0	3
<b>#10 CONDUCTORS (THHN/THWN)</b>																		
LED IISNS	6	2		2	2	2	2				2	2	2	2	4			4
<b>#14 CONDUCTORS (THHN)</b>																		
PEU	3															3		3
<b>EVP/TSP DETECTOR CABLE</b>																		
TSP(A)																		
TSP(C)																		
TOTAL EVP/TSP DETECTOR CABLES	0	0	0								0	0	0	0	0	0	0	0
EX. FIBER OPTIC CABLE (24 STRAND)	1																	
PULL ROPE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CONDUIT SIZE (INCHES)	2-3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"

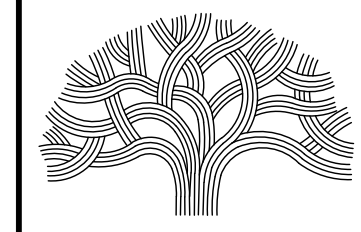
POLE AND EQUIPMENT SCHEDULE											
SIGNAL POLE	STANDARD			VEHICLE SIGNAL MOUNTING		PED. SIGNAL MOUNTING	ACCESSIBLE PEDESTRIAN PUSH BUTTON		LED LUMINAIRE WATTAGE	IISNS	REMARKS
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST	POLE		φ	ARROW			
Ⓐ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	6P	←	-		
Ⓑ	(E) SIGNAL STANDARD	(E)	(E)	(E)	(E)	SP-1-T	(E) 6P	←	(E)		
Ⓒ	15TS	-	12'	-	SV-2-T	SP-1-T	4P	→	127W		INSTALL R10-15 (MOD) SIGN ON POLE, VIDEO DETECTION
Ⓓ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	4P	→	-		
Ⓔ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	4P	←	-		
Ⓕ	24-4-100	35'	12'	MAS MAS	SV-1-T	SP-1-T	-	-	127W	Grand AVE 200 →	INSTALL EVP, IISNS, VIDEO DETECTION (2), CUSTOM R3-2 SIGN
Ⓖ	15TS	-	12'	-	SV-2-T	SP-1-T	-	-	127W		INSTALL R10-15 (MOD) SIGN ON POLE
Ⓗ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	2P	←	-		
							4P	→			
Ⓘ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	4P	→	-		
Ⓙ	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-1-T	2P	←	127W	Harrison ST 2250 ←	INSTALL EVP, IISNS, VIDEO DETECTION (2), R73-6 (CA) SIGN
Ⓚ	15TS	-	12'	-	SV-2-T	SP-1-T	8P	→	127W		INSTALL R10-15 (MOD) SIGN ON POLE
Ⓛ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	8P	→	-		
Ⓜ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	8P	←	-		
Ⓝ	26-4-100	45'	12'	MAS MAS	SV-1-T	SP-2-T	8P	←	127W	Grand AVE 200 ←	Install PEU, EVP, IISNS, VIDEO DETECTION (2)
Ⓟ	PUSH BUTTON ASSEMBLY POST	-	-	-	-	-	6P	→	-		
Ⓟ	(E) SIGNAL STANDARD	-	-	(E)	(E)	-	(E) 6P	→	(E)		

ALL SIGNAL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.  
(E) DENOTES EXISTING EQUIPMENT  
LED LUMINAIRE FIXTURE TYPE SHALL BE GE/ERS20EXAX7407 OR APPROVED EQUIVALENT

POLE	PHASE	CABLE(S) AND SPLICE CHAMBER(S) LABEL	CONDUCTOR No.
A	6P		
B	4	A	1-5-3
	7		2-6-4
	4P		7-8
C	2	B	1-5-3
	6		2-6-4
	6P		7-8
D	4P		
E	4P		2-6-4
I	4P		
F	2	B	1-5-3
	2P		9-10
H	4P		
	2P		
G	3	C	2-6-4
	4		1-5-3
	4P		7-8
J	3	G	2-6-4
	8		1-5-3
	8P		7-8
K	2	F	2-6-4
	6		1-5-3
	2P		7-8
L	8P		
N	6	E	2-6-4
	8		1-5-3
	6P		7-8
P	8P		9-10
	7	D	2-6-4
	8		1-5-3
6P	7-8		
O	6P		
	SPARE	A	9,10
		D	9,10
		F	9,10
		G	9,10
	NEUTRAL	(ALL)	8



LAKESIDE FAMILY STREETS



CITY OF OAKLAND

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY				
DESIGNED BY				
DRAWN BY				

CONSTRUCTION PLANS:  
ELECTRICAL PLAN  
HARRISON STREET / GRAND AVENUE

PROJECT NO.	
<b>1004836</b>	
SCALE: AS SHOWN	SHEET NO. <b>E-1.4</b>
DATE: 10/25/2023	<b>56</b> OF <b>58</b>

DRAWING NAME: Lakeside/Family Streets Delivery PROJECTS/CDT, ACTIVE/1004836 - Lakeside Family Streets (E)2, DESIGN/ CAD/2, SHEET/E-1.3 (Grand).dwg  
PLOT DATE: 11-09-23  
PLOT BY: wang93





**GENERAL NOTES (THIS SHEET):**

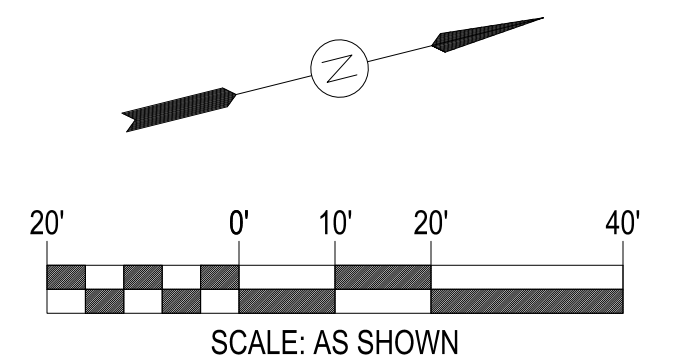
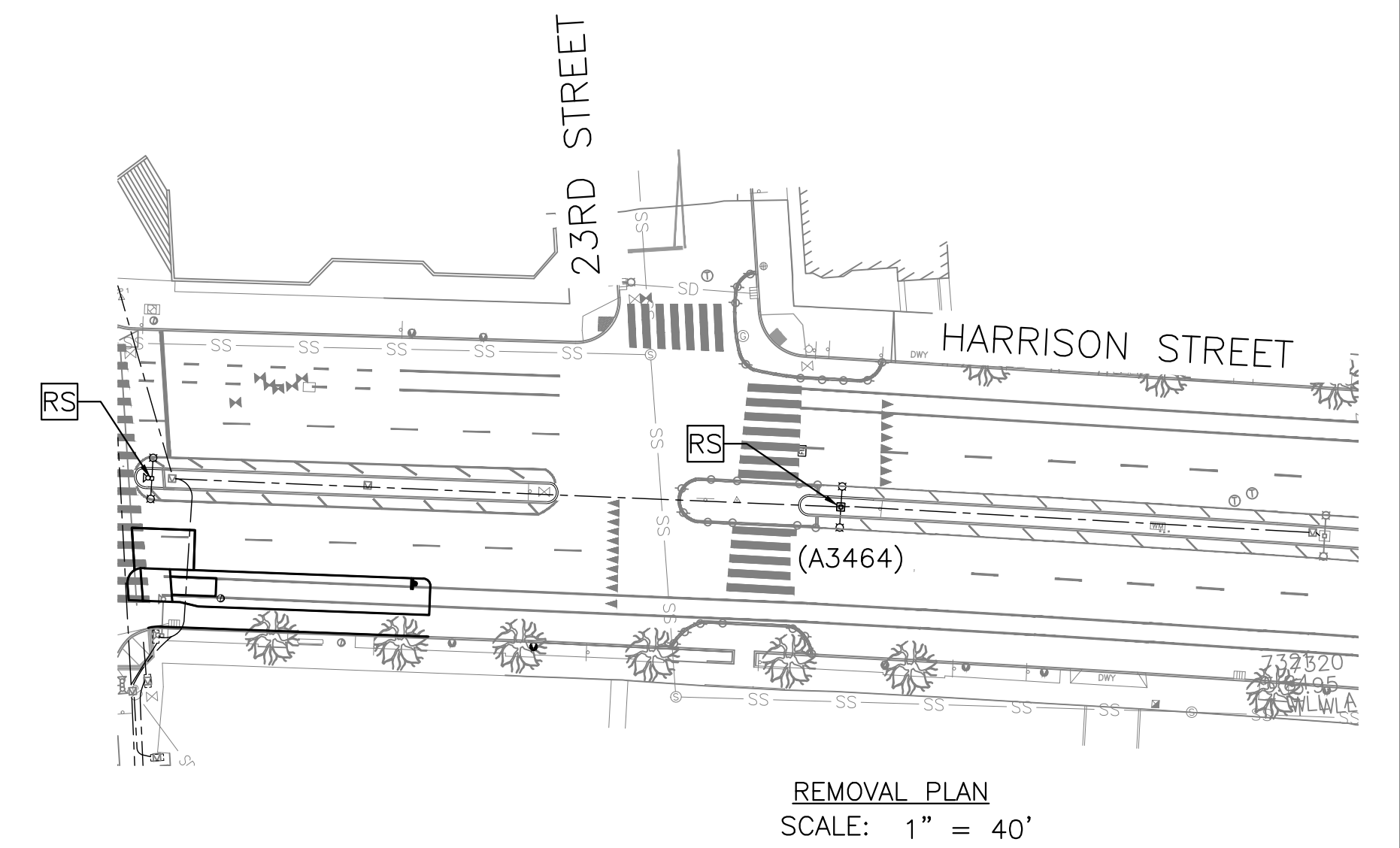
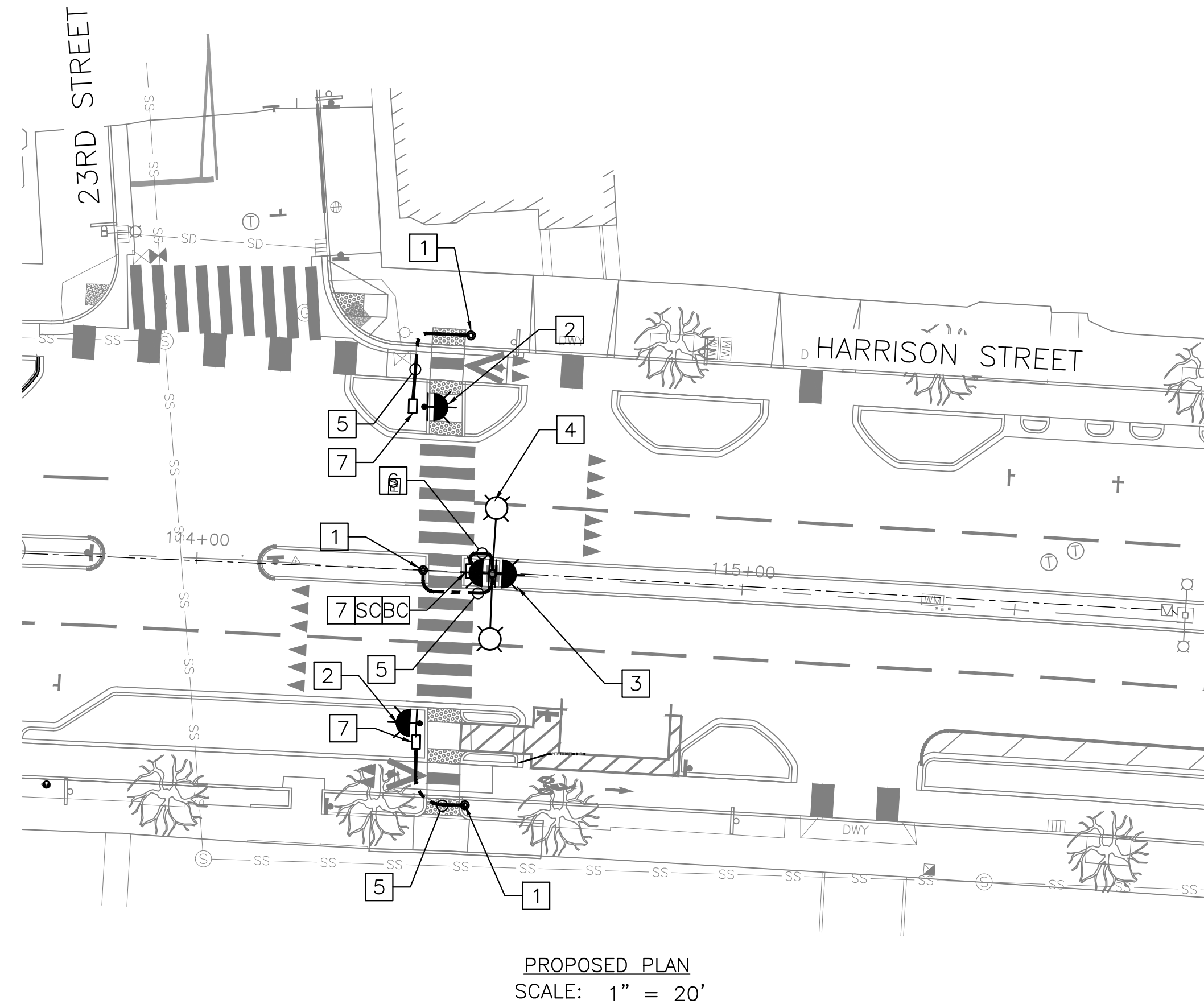
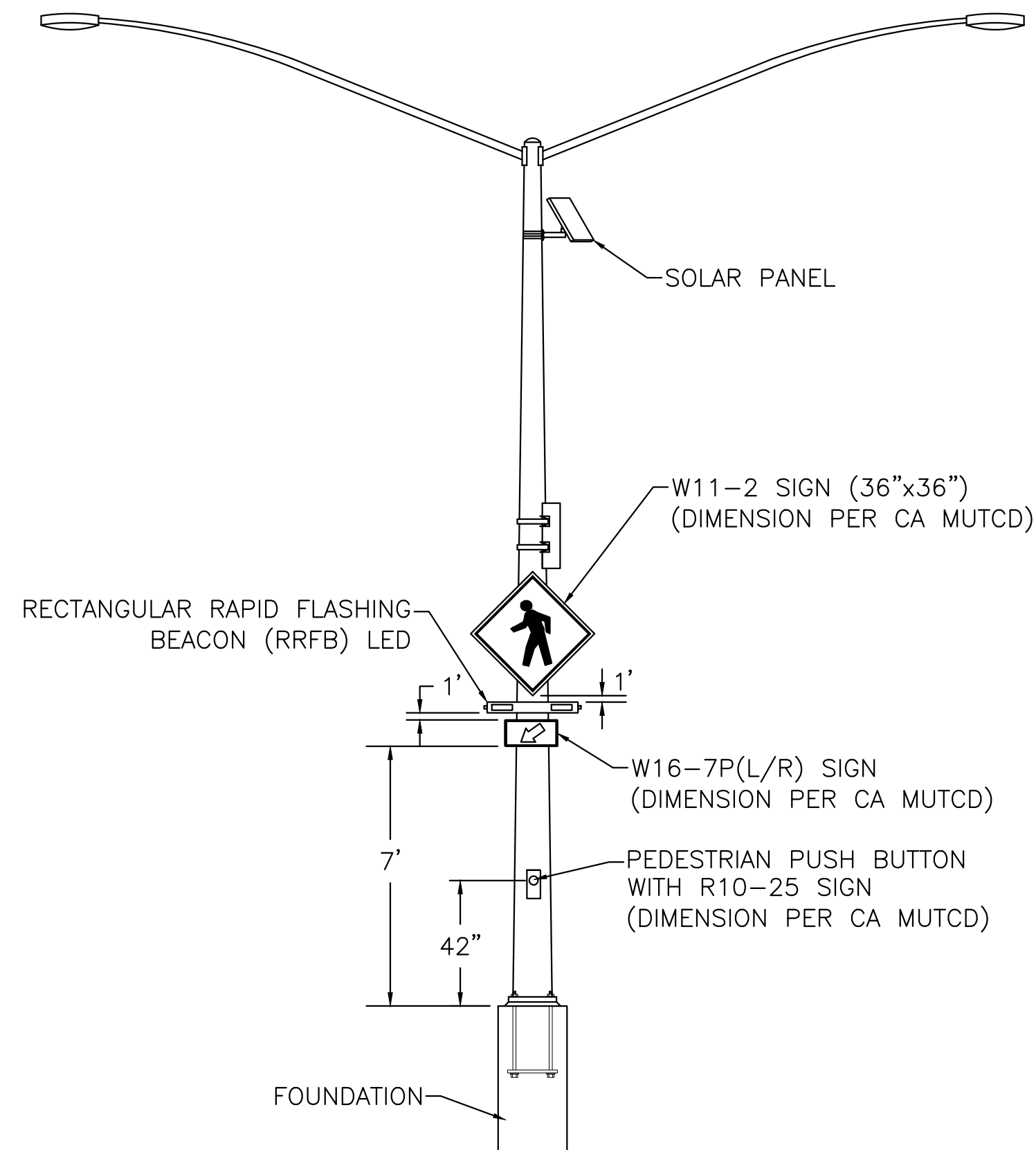
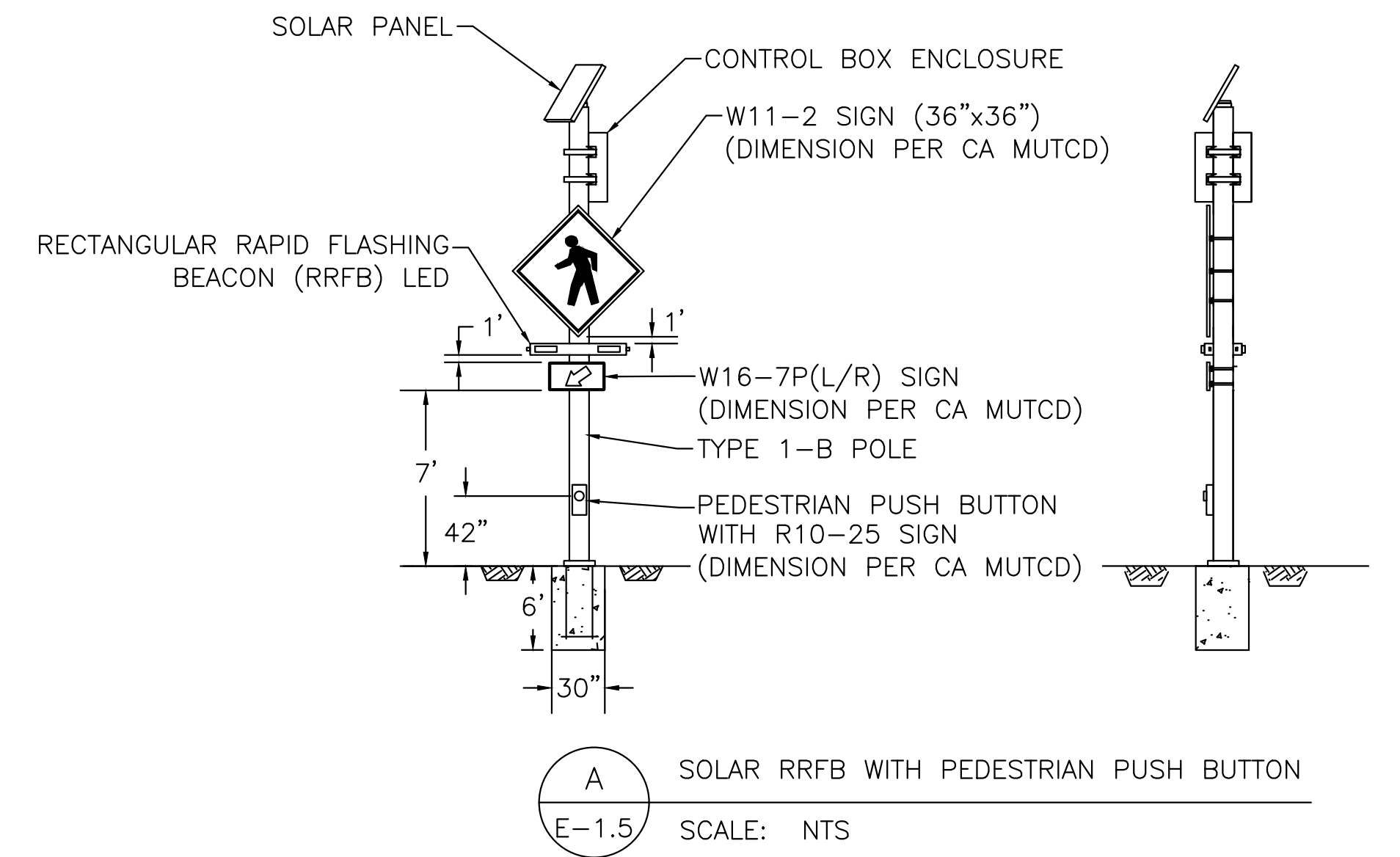
1. ALL POLE TYPES AND LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL REMOVE ADJACENT DUPLICATED SIGNAGE.
3. EXISTING STREET LIGHTS AND CIRCUITS SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR SHALL COORDINATE WITH CITY OF OAKLAND ELECTRICAL SERVICES DIVISION TO ASSIGN FINAL POLE NUMBERING.

**CONSTRUCTION NOTES:**

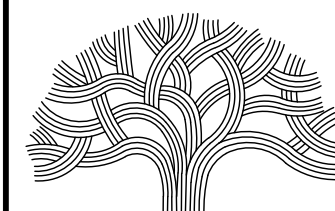
1. INSTALL AND MOUNT PEDESTRIAN PUSH BUTTON POST AND PEDESTRIAN PUSH BUTTON ASSEMBLY.
2. INSTALL NEW SOLAR RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY WITH PEDESTRIAN PUSH BUTTON (PPB) ON 1-B POLE. SEE DETAIL A THIS SHEET.
3. INSTALL NEW SOLAR RRFB ASSEMBLY WITH W16-7P (MOD) SIGN AND WITHOUT PPB ON NEW STREETLIGHT POLE. SEE DETAIL B THIS SHEET.
4. INSTALL NEW TYPE 15TS (MOD) DOUBLE LUMINAIRE STREET LIGHT POLE PER CALTRANS STANDARD PLAN ES-6A AND ES-6D. LUMINAIRE FIXTURES TYPE SHALL BE LED, 127 WATTS, AND GE/ERS20EXAX7407 OR APPROVED EQUIVALENT. CONTRACTOR TO CONFIRM WITH CITY OF OAKLAND ELECTRICAL SERVICES PRIOR TO INSTALLATION.
5. INSTALL 2" CONDUIT AND CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS TO POWER UP PEDESTRIAN PUSH BUTTON.
6. INSTALL 2"C 3#8.
7. INSTALL NEW #5 PULLBOX WITH BOLT-DOWN TYPE LIDS.

**LEGEND:**

-  SINGLE-FACE RECTANGULAR RAPID FLASHING BEACON (RRFB)
-  DUAL-FACE RECTANGULAR RAPID FLASHING BEACON (RRFB)



LAKESIDE FAMILY STREETS



**CITY OF OAKLAND**

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

CIVIL ENGINEER	NO.	DATE	BY	REFERENCE
SI LAU				
RCE NO. C57399				
CHECKED BY SK/SL				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

ELECTRICAL PLAN  
HARRISON STREET / 23RD STREET

PROJECT NO.

**1004836**

SCALE:  
AS SHOWN  
DATE:  
10/25/2023

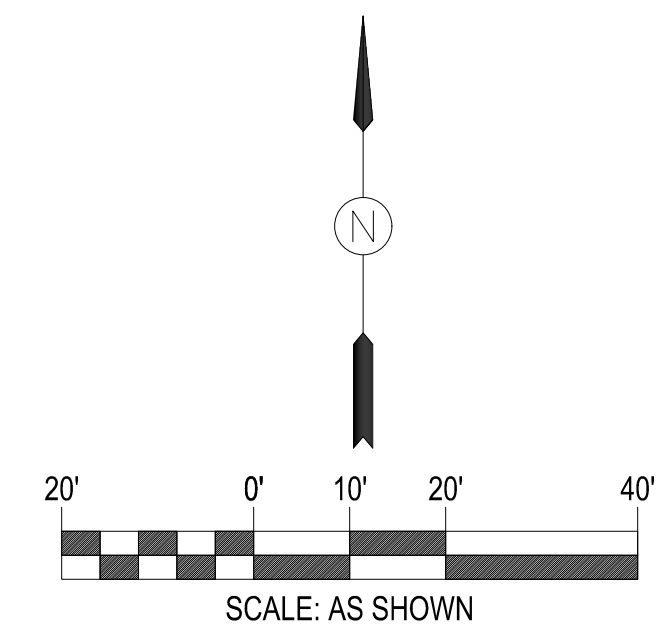
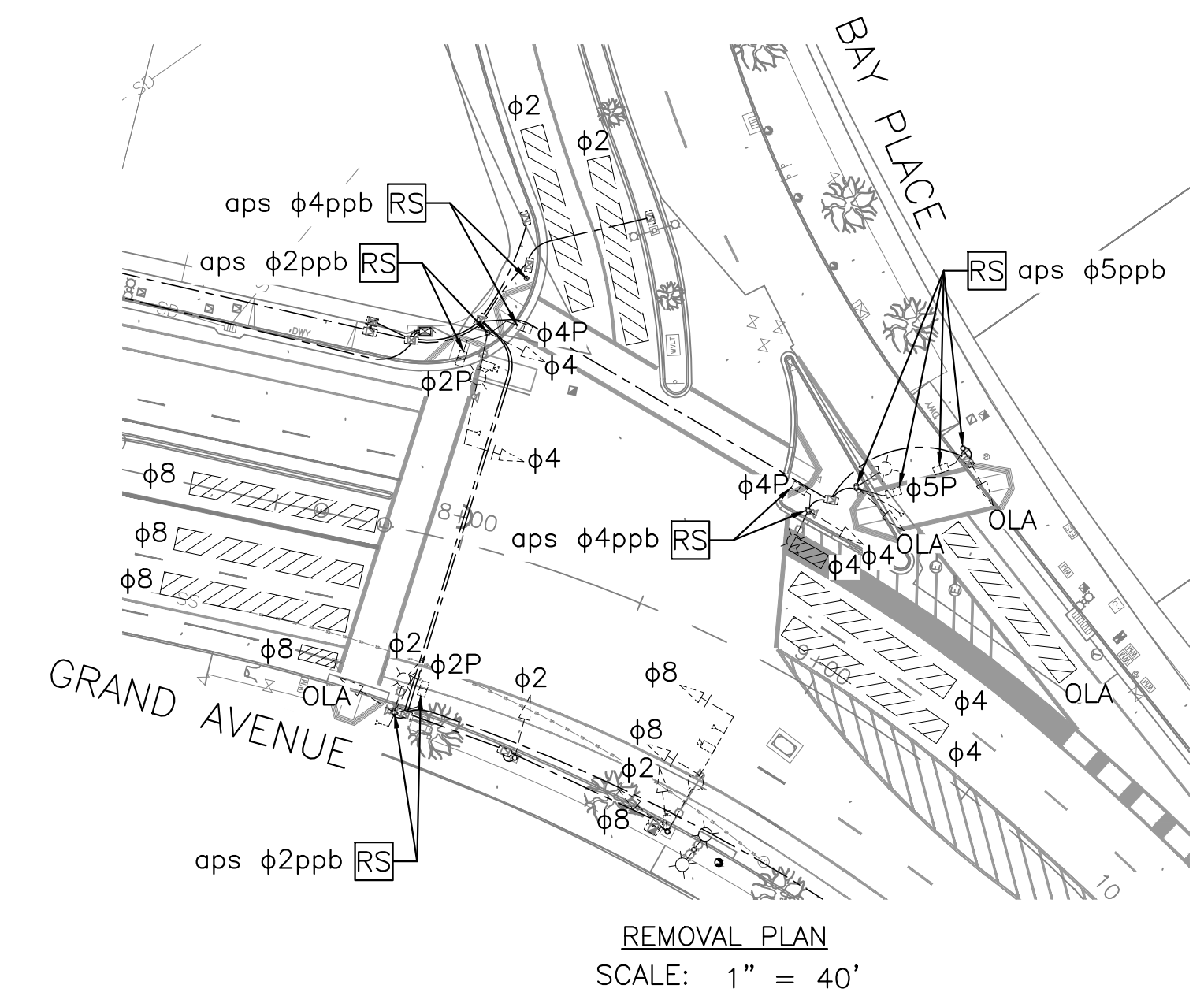
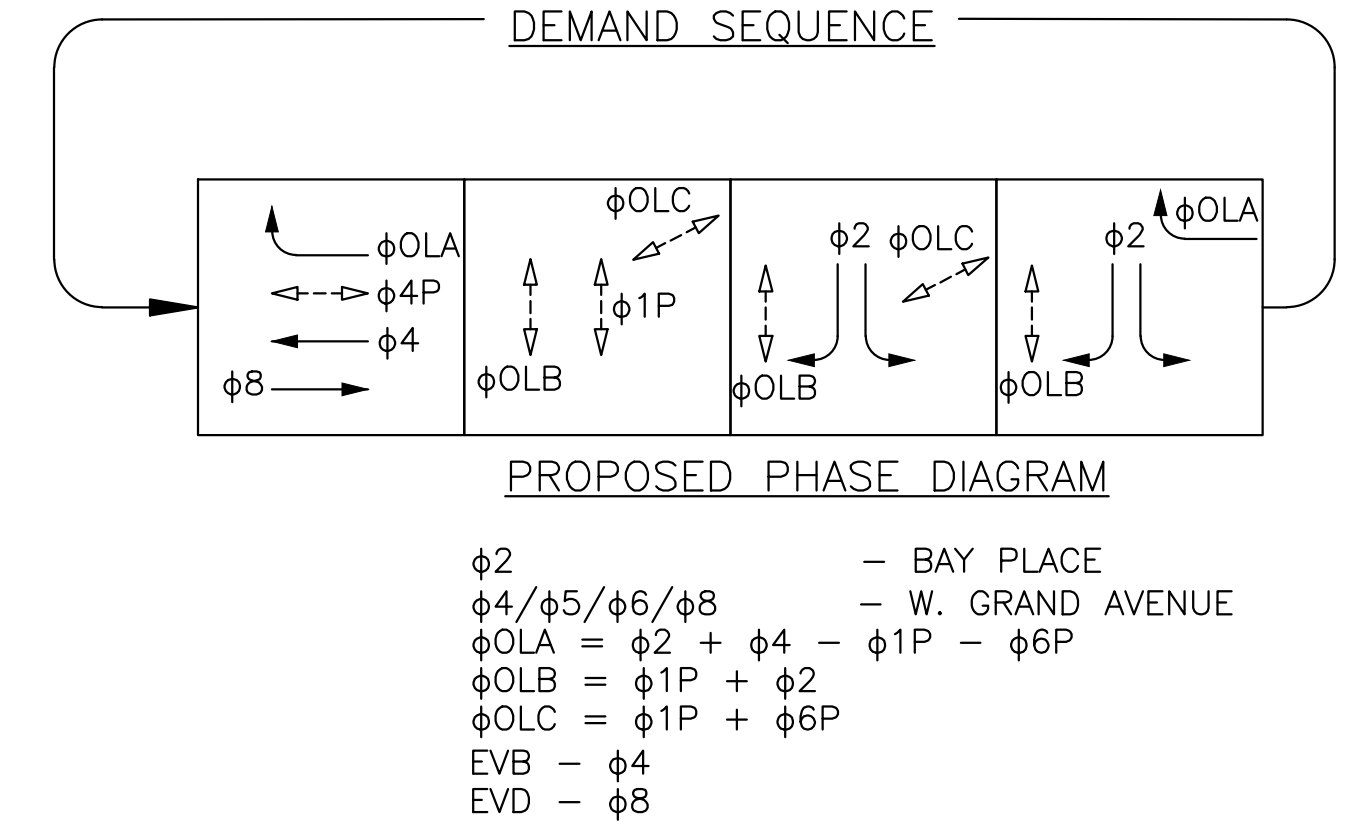
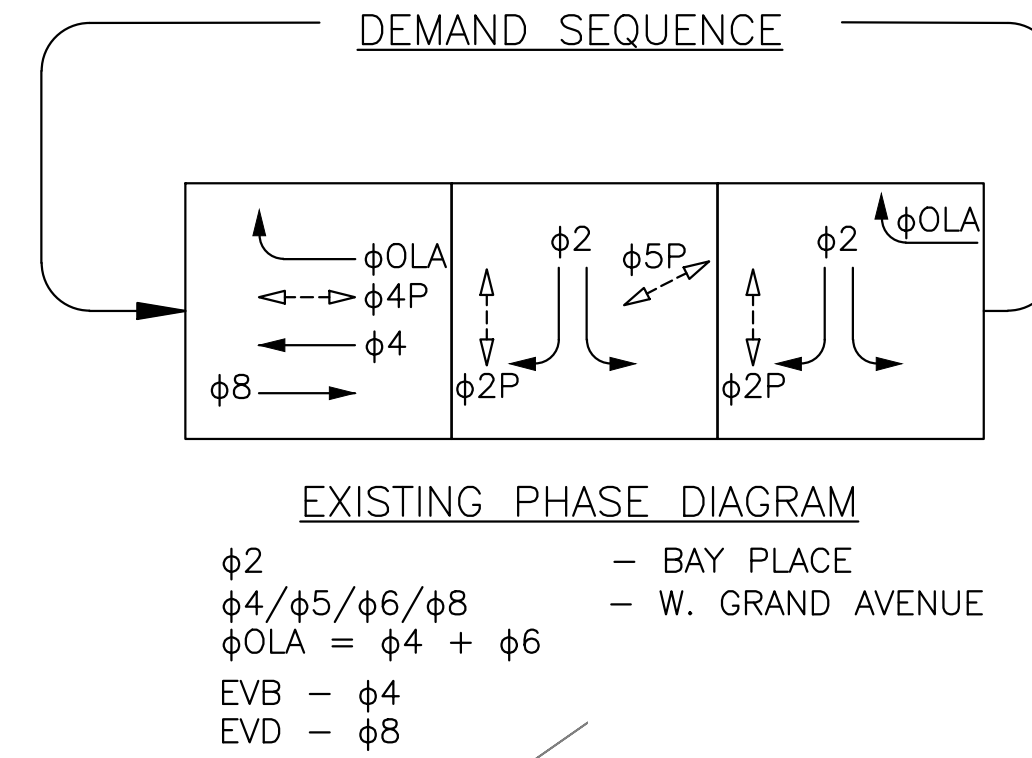
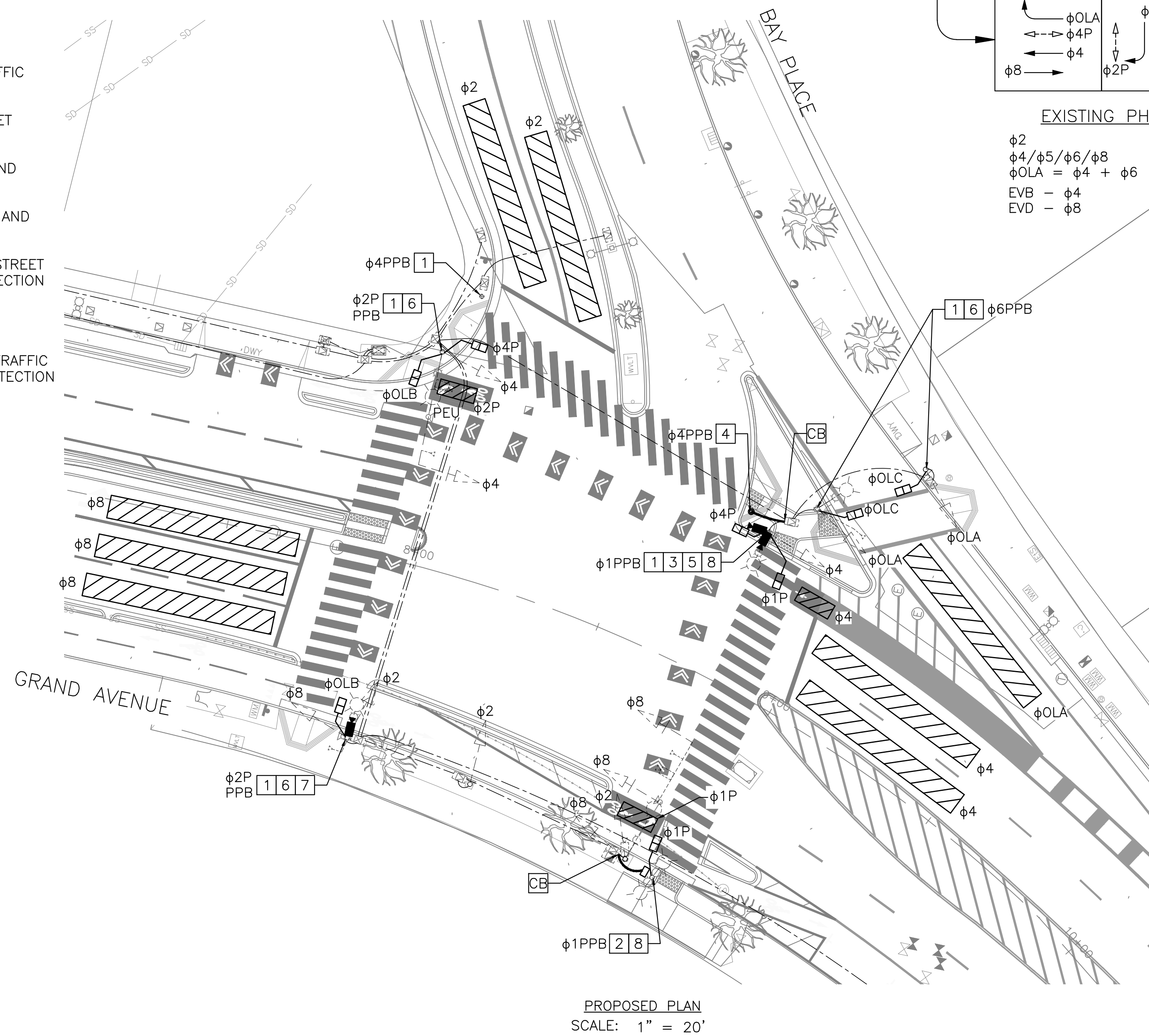
SHEET NO.  
**E-1.5**  
57 OF 58

**GENERAL NOTES:**

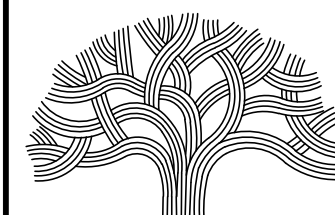
- CONTRACTOR SHALL INSTALL NEW CONDUCTORS, CABLES AND CONDUITS FOR THE PROPOSED TRAFFIC SIGNAL DETECTIONS AND OPERATIONS.

**CONSTRUCTION NOTES:**

- REPLACE PEDESTRIAN PUSH BUTTON ON EXISTING TRAFFIC SIGNAL POLE
- INSTALL PEDESTRIAN PUSH BUTTON ON EXISTING STREET LIGHT POLE
- INSTALL NEW THREE-SECTION BICYCLE SIGNAL HEAD AND MOUNTING HARDWARE TO EXISTING SIGNAL POLE
- INSTALL AND MOUNT PEDESTRIAN PUSH BUTTON POST AND PEDESTRIAN PUSH BUTTON ASSEMBLY
- INSTALL NEW VIDEO DETECTION CAMERA ON EXISTING STREET LIGHT POLE. CONTRACTOR SHALL PROGRAM VIDEO DETECTION FOR DETECTION ZONES AS SHOWN ON PLAN
- REPLACE NEW PEDESTRIAN COUNTDOWN SIGNAL HEAD
- INSTALL NEW VIDEO DETECTION CAMERA ON EXISTING TRAFFIC SIGNAL POLE. CONTRACTOR SHALL PROGRAM VIDEO DETECTION FOR DETECTION ZONES AS SHOWN ON PLAN
- INSTALL PEDESTRIAN COUNTDOWN SIGNAL HEAD



**LAKESIDE FAMILY STREETS**



**CITY OF OAKLAND**

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

CIVIL ENGINEER SI LAU	NO.	DATE	BY	REFERENCE
RCE NO. C57399				
CHECKED BY SK/SL				
DESIGNED BY SK/JW				
DRAWN BY JW				

**CONSTRUCTION PLANS:**

ELECTRICAL PLAN  
GRAND AVENUE / BAY PLACE

PROJECT NO.

**1004836**

SCALE: AS SHOWN  
DATE: 10/25/2023

SHEET NO.  
**E-1.6**  
58 OF 58