

**City of Oakley**  
**ADDENDUM NO. 1 to contract documents for**  
**CIP 208 – Laurel Road Widening (Mellowood Drive to Main Street)**

**BID OPENING DATE: May 21, 2020 2:00 PM**

Notice is hereby given that the following clarifications and revisions are made to the above referenced contract documents:

**Updates to the Specifications:**

Part I, Page 1

**BID OPENING DATE HAS CHANGED TO MAY 21, 2020**

**Due to the COVID-19 outbreak and current shelter in place orders the Project construction start date shall be in June or later dependent upon the current order under which the City of Oakley is regulated regarding commercial construction.**

Part I, Page 21

1.09 **TIME OF COMPLETION.**

The entire work shall be brought to completion in the manner provided for in the Contract Documents on or before the **NINETY (90)** working day, (hereinafter called the ("Completion Date")) from and after the receipt by Contractor of the Notice to Proceed unless extensions of time are granted in accordance with the Contract Documents.

Part III, Appendix A

Soils Report

**Updates to the Project Plans:**

Several pages of the plans were not legible. The updated plan sheet pages 3, 10-17, 25-31, 37, and 38 are included with this addendum. In addition, new Cover Sheet (T-1), and cross section sheets 33a (SEC-1) and 33b (SEC-2) have been included

All bidders shall acknowledge receipt and acceptance of Addendum No. 1 by signing in the space provided at the end of this Addendum and submitting the signed addendum with their proposal.



Jason Kabalin  
Capital Projects Coordinator  
April 6, 2020

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Contractor Signature

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Date

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Company Name

# NOTICE TO CONTRACTORS

Sealed proposals will be received at the office of the City Clerk of the City of Oakley, 3231 Main Street, Oakley, CA 94561, until

**2:00PM**

**Thursday**

**May 21, 2020**

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for the following project:

## **CIP 208 – LAUREL ROAD WIDENING FROM MELLOWOOD DRIVE TO MAIN STREET**

at which time they will be publicly opened and read aloud. Sealed proposals must be clearly marked on the outside with the Project number, date, and time of bid.

Contractor questions must be received by Tuesday, May 14<sup>th</sup> at 5:00pm.

**Due to the COVID-19 outbreak and current shelter in place orders the Project construction start date shall be in June or later dependent upon the current order under which the City of Oakley is regulated regarding commercial construction.**

This following information is presented to indicate the size of the project and no warrant is made or intended as to final quantities:

### **Project Description**

The work to be performed under this contract generally consists of, but is not limited to the following:

Mobilization and demobilization; traffic control and construction signage; removal and replacement of traffic striping, marking, and markers; removal of curbs and gutters, removal of sidewalks, clearing and grubbing, roadway excavation, common excavation removal of pavement and base material, removal of subbases, native material fill, construction of new concrete curb and gutter, sidewalk, median islands, curb ramps, rubberized hot mix asphalt (RHMA), hot-mix asphalt (HMA) pavement and base; storm drain improvements; utility rearrangements, traffic signal, street lighting, signing and striping, planting and irrigation, bioretention areas, and other work as shown on the Contract Plans, as specified in the Contract Documents, and as directed by the City Engineer.

Each bid must be accompanied by a cashier's check, certified check, or Bidder's Bond executed by a responsible corporate surety authorized to issue such bonds in the State of California and secured through an authorized agent with an office in California, payable to the City of Oakley, in an amount not less than ten percent (10%) of the amount of the Base Bid. The successful bidder will be required to furnish a Performance Bond in an amount equal to one-hundred percent (100%) of the contract price, and a Labor and Material Bond in an amount equal to one-hundred percent (100%) of the contract price. Said bonds shall also be executed by a corporate surety authorized to engage in such business in the State of California and be made payable to the City of Oakley.

If the successful bidder fails, neglects, or refuses for TEN (10) calendar days after the award of the contract to enter into the contract to perform the work, the cashier's check, certified check, or Bidder's Bond accompanying the bid and the amount therein named, shall be declared

manner designated in, and in strict conformity with the Contract Documents for the project entitled: **LAUREL ROAD WIDENING PROJECT**

1.05 CONTRACT AMOUNT AND PAYMENTS.

City agrees to pay, and Contractor agrees to accept, in full payment for the above work, the sum of \_\_\_\_\_ **DOLLARS AND \_\_\_\_\_ CENTS (\$\_\_\_\_\_)**, which sum is to be paid according to the schedule and in the manner set forth herein and subject to additions, deductions, and withholding as provided in the Contract Documents. When it is provided in the Notice to Bidders, Instructions to Bidders, or Proposal Form that Contractor is to be paid on the basis of the unit prices shown in his bid, instead of a lump sum price, the Contractor agrees to accept, in full payment for the above work, the sum computed in accordance with the actual amount of each item of work performed or material furnished, at the unit price which Contractor bid for each such item in his Proposal Form, said unit price to be determined as provided in the Standard Specifications and Special Provisions.

1.06 PROGRESS AND FINAL PAYMENTS.

Subject to the terms and conditions of the Contract Documents, City shall cause payments to be made upon demand of Contractor in the manner set forth in the Standard Specifications.

1.07 RETENTION OF SUMS CHARGED AGAINST CONTRACTOR.

When, under the provisions of this Contract, City shall charge any sum of money against Contractor, City shall deduct and retain the amount of such charge from the amount of the next succeeding progress estimate, or from any other moneys due or that may become due Contractor from City. If, on completion or termination of the Contract, sums due Contractor are insufficient to pay City's charges against him, City shall have the right to recover the balance from Contractor or its sureties.

1.08 COMMENCEMENT AND PROSECUTION OF WORK.

The Contractor shall begin work within TEN (10) working days of the date of the Notice to Proceed and shall diligently prosecute the same to completion before the expiration of **NINETY (90) WORKING DAYS**, after the date of Notice to Proceed. The phrase "commence the work" means to engage in a continuous program on-site including, but not limited to, site clearance, grading, dredging, land filling and the fabrication, erection, or installation of the work. Said Notice to Proceed shall be issued following execution of the Agreement and the filing by Contractor of the required bonds and proof of insurance. The continuous prosecution of work by Contractor shall be subject only to Excusable Delays as defined in this Agreement.

1.09 TIME OF COMPLETION.

The entire work shall be brought to completion in the manner provided for in the Contract Documents on or before the **NINETY (90)** working day, (hereinafter called the "Completion Date") from and after the receipt by Contractor of the Notice to Proceed unless extensions of time are granted in accordance with the Contract Documents.

1.10 PAYMENTS DO NOT IMPLY ACCEPTANCE OF WORK.



Anaheim Office  
December 23, 2019  
Report 19-347-0010

City of Oakley  
3231 Main Street  
Oakley, CA 94561

Attn: Bolivar Valle

RE: CIP 208 Laurel Road, Oakley

**Note: See page 5 for soil sample locations.**

### **Background**

Three samples were processed on December 13, 2019 identified as site soil from areas where new landscaping is scheduled for installation and existing landscaping requires maintenance recommendations. Organic fertilizer and amendment recommendations were requested. The samples were analyzed for horticultural suitability, fertility, and physical characteristics. The results of the analyses are attached.

### **Analytical Results and Comments**

The reaction of the samples is slightly acidic in all three samples at a pH of 6.2 in the North sample, 6.7 in the Median sample and 6.5 in the South sample. These are all within the preferred range for most plants. Salinity (ECe), sodium and boron are safely low in all three samples. The sodium adsorption ratio (SAR) shows sodium is adequately balanced by soluble three and magnesium in all three samples; this balance is important for soil structure quality, which relates to the rate at which water infiltrates the soil.

According to the USDA Soil Classification, the less than 2mm fraction of the samples is classified as sand in the North and South samples and loamy sand in the Median sample. Organic content is low or moderately low in all three samples. Based on this information the estimated infiltration rate is 0.69 inch per hour in the North and South samples and 0.46 inch per hour in the Median sample. Infiltration rates may vary due to differences in compaction across the site.

In terms of fertility, nitrogen is low in all three samples while phosphorus is low in the North and Median samples and sulfate is low in the North and South samples. All of the other major nutrients are sufficient for proper plant nutrition in at this time in all three samples. Of the micronutrients; copper, iron and zinc are sufficient in all three samples while iron is fair in the North sample and low in the Median sample.

### **Recommendations**

Incorporation of nitrogen, phosphorus and sulfate fertilizers is recommended at the time of planting. Incorporation of a composted greenwaste product is also recommended in order to help improve soil nutrient holding capacity and porosity. A composted greenwaste amendment should help provide supplemental phosphorus, potassium and micronutrients, product depending.

The primary symptom of manganese deficiencies is a general yellowing of leaves with veins remaining green. In severe cases, leaves may become pale yellow or whitish, but veins remain green. Brown spots may develop between veins and leaf margins may turn brown. Manganese deficiency symptoms appear first on younger leaves. If these symptoms are present after plant installation they may be treated with an application of a chelated micronutrient product at the manufacturer's recommended rate.

Anaheim Office  
Report 19-347-0010

Incorporation of a composted greenwaste amendment would also provide additional micronutrients and may be sufficient to negate any deficiency, product depending.

Boron is safely low for general ornamental plants and may be below optimum levels for plant nutritional purposes in the North and South samples. Irrigation water often supplies sufficient boron to meet plant nutritional requirements. However, if boron is low in the irrigation water and/or plants show symptoms of boron deficiency after they are well established, you may consider an application of a product containing boron at the manufacturer's label rate. Boron deficiency symptoms often include stunted or deformed younger growth and tight internodes. Tissue testing can be performed to identify a boron deficiency if it is suspected. Incorporation of a composted greenwaste amendment may be sufficient to negate this deficiency, product depending.

Top Dress for Existing Plantings:

The following materials should be evenly broadcast and thoroughly irrigated in:

	<u>Amount per 1000 Square Feet</u>
5 pounds	Blood Meal (12-0-0) <b>All Sample Areas</b>
10 pounds	Feather Meal (12-0-0) <b>All Sample Areas</b>
6 pounds	Steamed Bone Meal (3-15-0)* <b>North and Median Areas</b>
8 pounds	Gypsum (Calcium Sulfate) <b>North and South Areas</b>

To Prepare For Mass Planting:

Drainage of the root zone should be improved by first loosening the top 10 inches of any undisturbed or compacted soil. The following materials should then be evenly spread and thoroughly blended with the top 6 inches of soil to form a homogenous layer:

	<u>Amount per 1000 Square Feet</u>
5 cubic yards	Composted Greenwaste Organic Amendment* <b>North and South Areas</b>
3 cubic yards	Composted Greenwaste Organic Amendment* <b>Median Area</b>
6 pounds	Blood Meal (12-0-0) <b>All Sample Areas</b>
14 pounds	Feather Meal (12-0-0) <b>All Sample Areas</b>
8 pounds	Steamed Bone Meal (3-15-0)* <b>North and Median Areas</b>
10 pounds	Gypsum (Calcium Sulfate) <b>North and South Areas</b>

\*The rate may change based on the analysis of the chosen organic amendment. This rate is based on 270 pounds of dry weight of organic matter per cubic yard of amendment. If a composted greenwaste amendment is chosen that contains a significant amount of phosphorus, the steamed bone meal should be decreased or omitted accordingly.

To Prepare Backfill For Trees and Shrubs:

- Excavate planting pits at least twice as wide as the diameter of the root ball.
- Soil immediately below the root ball should be left undisturbed to provide support but the sides and the bottom around the side should be cultivated to improve porosity.
- The top of the root ball should be at or slightly above final grade.
- The top 12 inches of backfill around the sides of the root ball of trees and shrubs may consist of the above amended soil or may be prepared as follows:

Anaheim Office  
Report 19-347-0010

3 parts      Site Soil **North and South Areas**  
1 part      Composted Greenwaste Organic Amendment\*

Uniformly blended with:

5 parts      Site Soil **Median Area**  
1 part      Composted Greenwaste Organic Amendment\*

Uniformly blended with:

<u>Amount per Cubic Yard of Backfill</u>	
1/3 pound	Blood Meal (12-0-0) <b>All Sample Areas</b>
3/4 pound	Feather Meal (12-0-0) <b>All Sample Areas</b>
1/2 pound	Steamed Bone Meal (3-15-0)* <b>North and Median Areas</b>
1/2 pound	Gypsum (Calcium Sulfate) <b>North and South Areas</b>

- Backfill below 12 inches required for 24 inch box or larger material should not contain the organic amendment, blood meal or feather meal but should still contain the steamed bone meal and gypsum at the recommended rates.
- Ideally a weed and turf free zone should be maintained just beyond the diameter of the planting hole. A 2-4 inch deep layer of coarse mulch can be placed around the tree or shrub. Mulch should be kept a minimum 4 inches from the trunk.
- Irrigation of new plantings should take into consideration the differing texture of the rootball substrate and surrounding soil matrix to maintain adequate moisture during this critical period of establishment.

### Maintenance

Maintenance fertilization should rely primarily on a nitrogen only program supplemented with a complete fertilizer in the fall and spring. Blood Meal (12-0-0) provides available nitrogen fairly rapidly while materials such as Feather Meal (12-0-0), Soybean or Cotton Seed Meal (7-1-1) are slower to provide available nitrogen, but they extend the length of time they make this contribution. In order to provide a good supply of nitrogen for a 3-4 month time frame a good combination would be 6 pounds Blood Meal and 14 pounds Feather Meal per 1000 square feet. In the fall and spring, substitute a complete organic fertilizer such as 5-5-5 applied at the manufacturer's label rate. Or, nutrient rich composted greenwaste may be spread in a 1 to 2 inch layer, which generally carries enough nutrition to boost complete nutrition though a source of nitrogen might also be added at a half rate to assure adequate nitrogen availability.

If we can be of any further assistance, please feel free to contact us.



Annmarie Lucchesi  
[alucchesi@waypointanalytical.com](mailto:alucchesi@waypointanalytical.com)

Emailed 4 Pages: [valle@ci.oakley.ca.us](mailto:valle@ci.oakley.ca.us)

Project : CIP 208 Laurel Road-Oakley  
Job # CIP 208

Report No : **19-347-0010**  
Purchase Order :  
Date Recd : 12/13/2019  
Date Printed : 12/18/2019  
Page : 1 of 1

## COMPREHENSIVE SOIL ANALYSIS

Sample Description - Sample ID	Half Sat %	pH	ECe dS/m	NO <sub>3</sub> -N ppm	NH <sub>4</sub> -N ppm	PO <sub>4</sub> -P ppm	K ppm	Ca ppm	Mg ppm	Cu ppm	Zn ppm	Mn ppm	Fe ppm	Organic % dry wt.	Lab No.
	TEC	Qual Lime		Sufficiency Factors											
Laurel North, Underdeveloped Soil	14	6.2	0.1	2	6	5	69	411	49	0.8	3.6	1	9	0.70	10717
	26	None		0.3	0.3	1.0	0.9	0.8	2.4	2.8	0.4	0.7			
Laurel Median, Developed	20	6.7	0.4	3	6	7	94	867	135	1.6	7.1	2	24	3.10	10718
	55	None		0.2	0.3	0.8	0.9	1.0	2.2	2.6	0.3	0.9			
Laurel Rd. South, Very Old Developed	15	6.5	0.2	1	5	18	129	626	74	1.1	4.4	2	19	1.32	10719
	40	None		0.2	1.0	1.5	0.9	0.8	2.1	2.2	0.5	1.0			

Saturation Extract Values						SAR	Gravel %		Percent of Sample Passing 2 mm Screen					USDA Soil Classification	Lab No.
Ca meq/L	Mg meq/L	Na meq/L	K meq/L	B ppm	SO <sub>4</sub> meq/L		Coarse 5 - 12	Fine 2 - 5	Sand			Silt .002-.05	Clay 0-.002		
								Very Coarse 1 - 2	Coarse 0.5 - 1	Med. to Very Fine 0.05 - 0.5					
0.9	0.4	0.1	0.1	0.08	0.2	0.1	1.2	1.0	1.4	24.2	64.8	2.6	6.8	Sand	10717
3.4	1.4	1.3	0.3	0.41	2.1	0.8	1.1	1.3	1.0	15.8	71.6	2.6	8.8	Loamy Sand	10718
1.6	0.6	0.2	0.4	0.07	0.5	0.2	1.2	1.3	0.8	16.6	75	0.6	6.8	Sand	10719

Sufficiency factor (1.0=sufficient for average crop) below each nutrient value. N factor based on 200 ppm constant feed. SAR = Sodium adsorption ratio. Half Saturation %=approx field moisture capacity. Nitrogen(N), Potassium(K), Calcium(Ca) and Magnesium(Mg) by sodium chloride extraction. Phosphorus(P) by sodium bicarbonate extraction. Copper(Cu), Zinc(Zn), Manganese(Mn) & Iron(Fe) by DTPA extraction. Sat. ext. method for salinity (ECe as dS/m), Boron (B), Sulfate(SO<sub>4</sub>), Sodium(Na). Gravel fraction expressed as percent by weight of oven-dried sample passing a 12mm(1/2 inch) sieve. Particle sizes in millimeters. Organic percentage determined by Walkley-Black or Loss on Ignition.

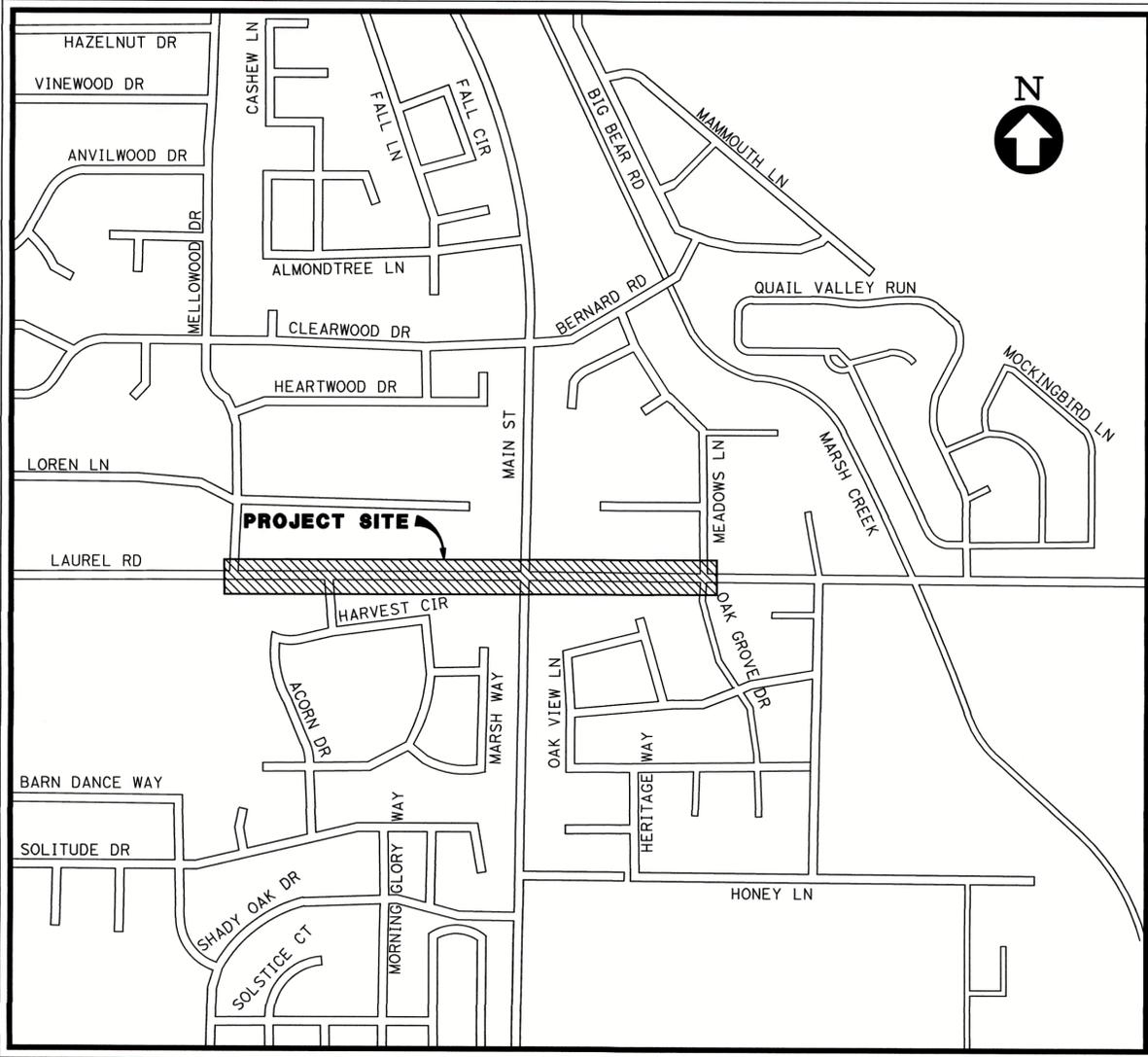


**ABBREVIATIONS:**

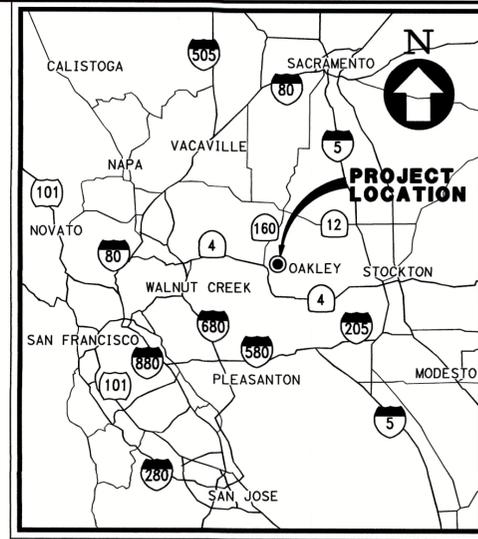
- AB AGGREGATE BASE
- ABN ABANDON
- AC ASPHALT CONCRETE
- AP ANGLE POINT
- ARV AIR RELEASE VALVE
- Beg BEGIN
- BFP BACKFLOW PREVENTER
- BW BACK OF WALK
- CB CATCH BASIN
- CCC COUNTY OF CONTRA COSTA
- CL CENTER LINE
- CL CLASS
- COO CITY OF OAKLEY
- CG CURB & GUTTER
- DI DRAINAGE INLET
- DIP DUCTILE IRON PIPE
- DWD DIABLO WATER DISTRICT
- Dwy DRIVEWAY
- EB EAST BOUND
- EC END CURVE
- EL ELEVATION
- Elect ELECTRICAL
- EP EDGE OF PAVEMENT
- ETW EDGE OF TRAVELED WAY
- Exist, (E) EXISTING
- FG FINISH GROUND
- FH FIRE HYDRANT
- FC, FOC FACE OF CURB
- Gas GAS LINE
- GB GRADE BREAK
- GV GATE VALVE
- INV INVERT
- LG LIP OF GUTTER
- MB MAINTENANCE BAND
- MH MANHOLE
- Mod MODIFIED
- NB NORTH BOUND
- NTS NOT TO SCALE
- OG ORIGINAL GROUND
- OH OVERHEAD
- (P) PROPOSED
- PCC PORTLAND CEMENT CONCRETE/  
POINT ON COMPOUND CURVE
- PL PROPERTY LINE/PLASTIC
- PRF PAVEMENT REINFORCING FABRIC
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT OF WAY
- SB SOUTH BOUND
- SC SAWCUT
- SD STORM DRAIN
- SDDI STORM DRAIN DRAINAGE INLET
- SDMH STORM DRAIN MANHOLE
- SS SANITARY SEWER
- SSMH SANITARY SEWER MANHOLE
- STA STATION
- STD STANDARD
- SW SIDEWALK
- TC TOP OF CURB
- TG TOP OF GRATE
- Typ, TYP TYPICAL
- Var, VAR VARIES
- VC VERTICAL CURB

# LAUREL ROAD STREET WIDENING FROM MELLOWOOD DRIVE TO MAIN STREET CIP PROJECT NO. 208 OAKLEY, CA

TO BE SUPPLEMENTED BY CALTRANS STANDARD PLANS & SPECIFICATIONS 2018



**LOCATION MAP**  
NO SCALE



**VICINITY MAP**  
NO SCALE

**DRAWING INDEX:**

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3	PC-1	PROJECT CONTROL
4	X-1	TYPICAL SECTIONS
5	K-1	KEY MAP
6-11	DM-1 TO DM-6	DEMOLITION PLAN
12-17	S-1 TO S-6	SITE PLAN
18-24	CD-1 TO CD-7	CONSTRUCTION DETAILS
25-32	GD-1 TO GD-8	GRADING AND DRAINAGE PLAN AND PROFILE
33a-33b	SEC-1 TO SEC-2	CROSS SECTIONS
33-38	U-1 TO U-6	COMPOSITE UTILITY REARRANGEMENT PLAN
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43-48	TC-1 TO TC-6	TRAFFIC CONTROL PLANS
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56-57	LA-0A TO LA-0B	LANDSCAPE NOTES AND LEGEND
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ALL LOCATIONS AND DEPTHS OF UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIZES, DEPTHS, AND LOCATIONS OF ALL UTILITIES PRIOR TO PROCEEDING WITH ANY WORK OR ORDERING OF MATERIALS. ANY CHANGES -TO THESE PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER.

CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-227-2600, A MINIMUM OF 48 HOURS BEFORE BEGINNING ANY EXCAVATIONS.



REVIEWED FOR CONFORMANCE WITH THE CITY OF OAKLEY STANDARDS AND REQUIREMENTS. APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION SHOWN HEREIN. THE CITY OF OAKLEY AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THE PLANS.

*Kevin Rosani*  
KEVIN ROHANI CITY ENGINEER DATE 4-6-20  
R.C.E. NO. 51138 EXPIRES 09/2021

4670 WILLOW RD  
SUITE 250  
OAKLEY, CA 94566  
925-398-7700  
925-398-7799 (FAX)



CIP 208 - LAUREL ROAD WIDENING PROJECT  
FROM MELLOWOOD DRIVE TO MAIN STREET  
TITLE SHEET  
OAKLEY CONTRA COSTA COUNTY CALIFORNIA

Revisions	20200408 ADDENDUM No. 1
No.	Δ
Date: 01/15/2020	Scale: AS NOTED
Design: CC	Drawn: AH
Approved: MC	Job No: 20176057-10
Drawing Number:	T-1
	1 of 71

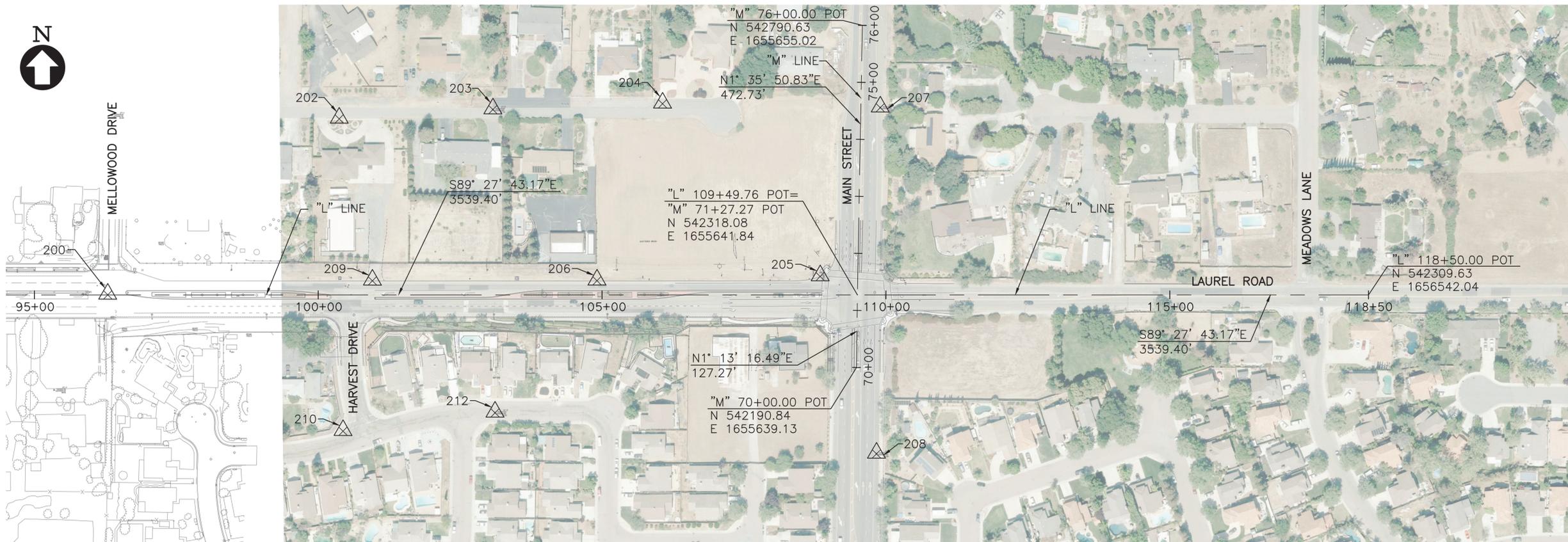
**SURVEY CONTROL NOTES**

1. THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, ANY PERMANENT MONUMENTS OR POINTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A LICENSED ENGINEER OR SURVEYOR AT THE CONTRACTOR'S EXPENSE.
2. HORIZONTAL COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NORTH AMERICAN DATUM OF 1983, AS DERIVED BY GPS
3. VERTICAL ELEVATIONS ARE BASED ON THE BENCHMARK BELOW:  
FOUND BRASS CAP MONUMENT IN MONUMENT HAND WELL AT THE CENTERLINE OF THE INTERSECTION OF LAUREL AVENUE AND MELLOWOOD DRIVE.

ELEVATION = 31.70'

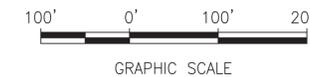
**LEGEND:**

△ PROJECT CONTROL POINT



**PLAN**

SCALE: 1"=100'



POINT#	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	"L" 96+29.33	0.01 Lt	542330.489	1654321.469	31.71	BRASS CAP MONUMENT IN LAUREL ROAD
202	"L" 100+37.04	308.72 Lt	542635.358	1654732.067	30.25	NAIL IN AC BERM ALONG LOREN LANE
203	"L" 103+07.72	324.93 Lt	542649.046	1655002.887	27.33	NAIL IN LOREN LANE
204	"L" 106+06.51	335.13 Lt	542656.418	1655301.759	23.89	NAIL IN LOREN LANE
205	"L" 108+84.16	32.27 Lt	542350.963	1655576.553	23.72	NAIL IN AC BERM AT LAUREL AND MAIN
206	"L" 104+91.08	24.77 Lt	542347.152	1655183.412	26.83	NAIL IN AC BERM ALONG LAUREL ROAD
207	"L" 109+89.98	328.31 Lt	542645.992	1655685.146	24.08	NAIL IN MAIN STREET
208	"L" 109+83.37	278.81 Rt	542038.967	1655672.838	24.36	NAIL IN MAIN STREET
209	"L" 100+95.52	24.66 Lt	542350.757	1654787.872	33.48	NAIL IN AC BERM ALONG LAUREL ROAD
210	"L" 100+43.75	239.07 Rt	542087.526	1654733.632	36.08	CUT "X" ON TOP OF CURB HARVEST DRIVE
212	"L" 103+11.47	206.84 Rt	542117.243	1655001.645	31.53	NAIL IN HARVEST CIRCLE

4670 WILLOW RD  
SUITE 250  
OAKLEY, CA 94588  
925-396-7700  
925-396-7799 (FAX)



**OAKLEY CALIFORNIA**  
CIP 208 - LAUREL ROAD WIDENING PROJECT  
FROM MELLOWOOD DRIVE TO MAIN STREET  
PROJECT CONTROL  
CONTRA COSTA COUNTY CALIFORNIA  
OAKLEY

Revisions	
No.	Description
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: JH  
Approved: MC  
Job No: 20176057-10

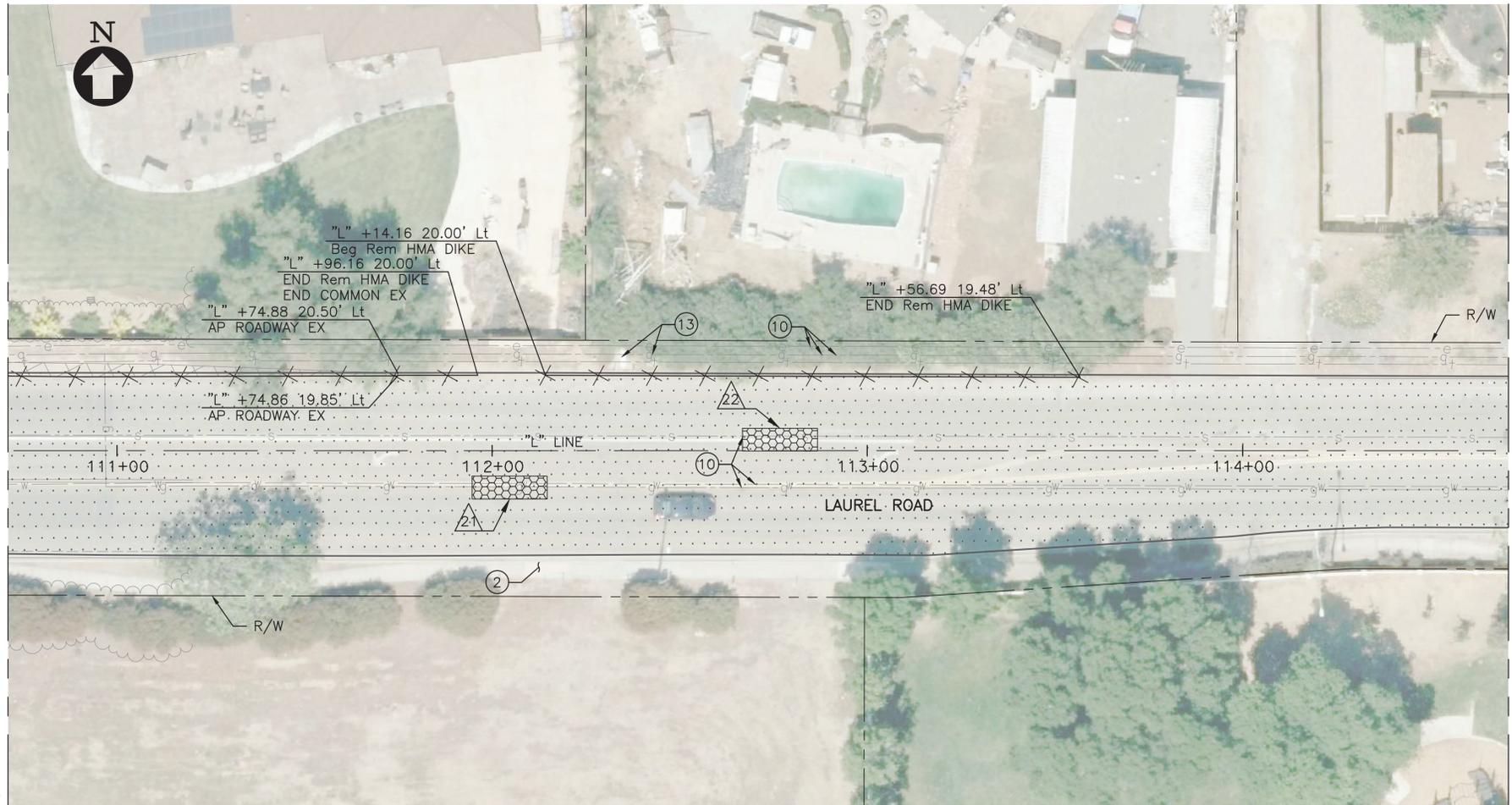
Drawing Number:  
**PC-1**  
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Date: 01/15/2020	No.	Revisions
Scale: AS NOTED	A	DRAFT SUBMITTAL 01/15/20
Design: CC	B	FINAL SUBMITTAL 03/04/20
Drawn: AH		
Approved: MC		
Job No: 20176057-10		

**NOTES:**

- THIS PLAN IS ACCURATE FOR DEMOLITION WORK ONLY.
- FOR GEOMETRY OF CONTROL LINE, SEE PROJECT CONTROL DRAWING.
- SAWCUT EXISTING PAVEMENT AND/OR PAVEMENT EDGE TO A NEAT LINE, PROTECT VERTICAL EDGE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR THEIR OWN EARTHWORK QUANTITY CALCULATIONS.
- NO COMPACTION OR EXPANSION FACTORS HAVE BEEN APPLIED.
- REMOVE MEDIAN, SIDEWALK AND GUTTER TO NEAREST SCOREMARK JOINT.
- THE LINES AND THICKNESS SHOWN FOR THE REMOVAL OF PAVEMENT, CURB AND GUTTER, SIDEWALK AND ALL OTHER CIVIL CONSTRUCTION WORK ARE FOR INFORMATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXTENT OF WORK BASED ON THE SPACE REQUIRED TO PERFORM THE CONSTRUCTION WORK AND/OR THE CONTRACTOR'S MEANS AND METHODS AND REQUIREMENTS FOR SHORING, EXCAVATION AND TEMPORARY SUPPORT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION UNLESS OTHERWISE NOTED ON PLANS. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
- PAVEMENT, AGGREGATE BASE AND SUBGRADE MATERIAL SHALL BE REMOVED TO THE LINES AND GRADES SHOWN ON THESE PLANS.
- FOR CUT AND FILL INFORMATION, SEE GRADING PLANS.
- FOR RELOCATION OF UTILITIES IN CONFLICT WITH THE WORK, SEE UTILITY PLANS.
- NOT USED.
- CONTRACTOR SHALL CLEAR AND GRUB AREA PRIOR TO EXCAVATING NATIVE MATERIAL.
- IN AREAS TO RECEIVE OVERLAY, UTILITIES SHALL BE LOWERED FOR GRADING OPERATIONS AND RAISED TO FINAL GRADE.
- THESE AREAS HAVE SIERRACRETE AS A ROADWAY BASE MATERIAL. SIERRACRETE SHALL BE COMPLETELY REMOVED FROM THE ROADBED. SEE UTILITY PLANS FOR EXISTING PAVEMENT THICKNESS. CONTRACTOR SHALL NOTIFY CITY ENGINEER IF SIERRACRETE IS FOUND OUTSIDE THE LIMIT SHOWN ON THESE PLANS. CONTRACTOR SHALL REMOVE SIERRACRETE BELOW (E) C&G TO REMAIN, SEE DETAIL **(6)** CD-3
- REMOVE IRRIGATION FACILITIES IN CONFLICT WITH THE WORK. SEE IRRIGATION PLANS FOR MORE INFORMATION.
- FOR LIGHTING AND TRAFFIC SIGNAL WORK, SEE ELECTRICAL AND TRAFFIC SIGNAL PLANS.
- FOR SIGN REMOVAL, RELOCATION AND SALVAGE, SEE SIGNING AND STRIPING PLAN.
- CONTRACTOR SHALL REMOVE TREES AND TREE STUMPS TO A DEPTH OF 3' BELOW GROUND AND (E) IRRIGATION INFRASTRUCTURE AS PART OF CLEAR AND GRUB WORK.
- CONTRACTOR SHALL INSTALL 4' ORANGE CONSTRUCTION FENCE PRIOR TO ANY WORK. 4' ORANGE CONSTRUCTION FENCE SHALL BE MAINTAINED AND KEPT UPRIGHT FOR THE DURATION OF THE PROJECT.
- CONFIRM LIMITS OF BASE REPAIR WITH CITY ENGINEER PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE COMPLETED PRIOR TO ANY GRINDING AND OVERLAY OPERATIONS.
- FOR TREE PROTECTION DETAILS, SEE PLANTING PLANS, SEE DETAIL **(7)** LA-5



MATCH LINE  
SEE DRAWING NO. DM-4

MATCH LINE  
SEE DRAWING NO. DM-6

**ITEMS OF WORK:**

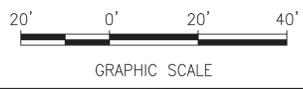
- |  |   |
|--|---|
| ① PROTECT IN PLACE (E) CURB OR CURB AND GUTTER   | ⑭ ADJUST TO GRADE (E) SDMH, SEE GRADING AND DRAINAGE PLAN |
| ② PROTECT IN PLACE (E) SIDEWALK  | ⑮ ADJUST TO GRADE (E) SSMH, SEE NOTE 14                   |
| ③ PROTECT IN PLACE (E) FIRE HYDRANT  | ⑯ ADJUST TO GRADE (E) WATER VALVE, SEE NOTE 14            |
| ④ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No. 1 SURVEY MONUMENT SEE NOTE 8 <b>(8)</b> CD-2 | ⑰ PROTECT IN PLACE (E) TREE, SEE NOTE 22                  |
| ⑤ PROTECT IN PLACE (E) DRAINAGE INLET  | ⑱ ADJUST TO GRADE (E) SURVEY MONUMENT <b>(3)</b> CD-2     |
| ⑥ PROTECT IN PLACE (E) LIGHT POLE  |   |
| ⑦ PROTECT IN PLACE (E) JOINT POLE & GUY WIRE   |   |
| ⑧ PROTECT IN PLACE (E) WOOD FENCE  |   |
| ⑨ PROTECT IN PLACE (E) WALL  |   |
| ⑩ PROTECT IN PLACE (E) UTILITY LINE  |   |
| ⑪ PROTECT IN PLACE (E) UTILITY BOX   |   |
| ⑫ PROTECT IN PLACE (E) ELECTRICAL BOX  |   |
| ⑬ ADJUST TO GRADE (E) UTILITY BOX  |   |

**PLAN**

SCALE: 1"=20'

**LEGEND:**

- REMOVE CONCRETE PAVEMENT AND BASE MATERIAL (SEE NOTE 9)
- ROADWAY EXCAVATION & SIERRACRETE REMOVAL (SEE NOTES 9 & 15)
- 2" AC GRIND (SEE NOTE 14)
- CLEAR AND GRUB AREA AND COMMON EXCAVATION (SEE NOTE 9 AND NOTE 19)
- REMOVE MEDIAN PAVING
- 4" BASE REPAIR (SEE NOTE 21) **(2)** CD-7
- REMOVE CURB & GUTTER
- REMOVE HMA DIKE
- 4' ORANGE CONSTRUCTION FENCE (SEE NOTE 20)
- SAWCUT
- REMOVE TREE
- (E) TREE
- (E) WOOD POLE
- (E) SIGN STRUCTURE
- BASE REPAIR LOCATION



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4670 WILLOW RD  
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PULVER, CA 94568  
925-396-7700  
925-396-7799 (FAX)

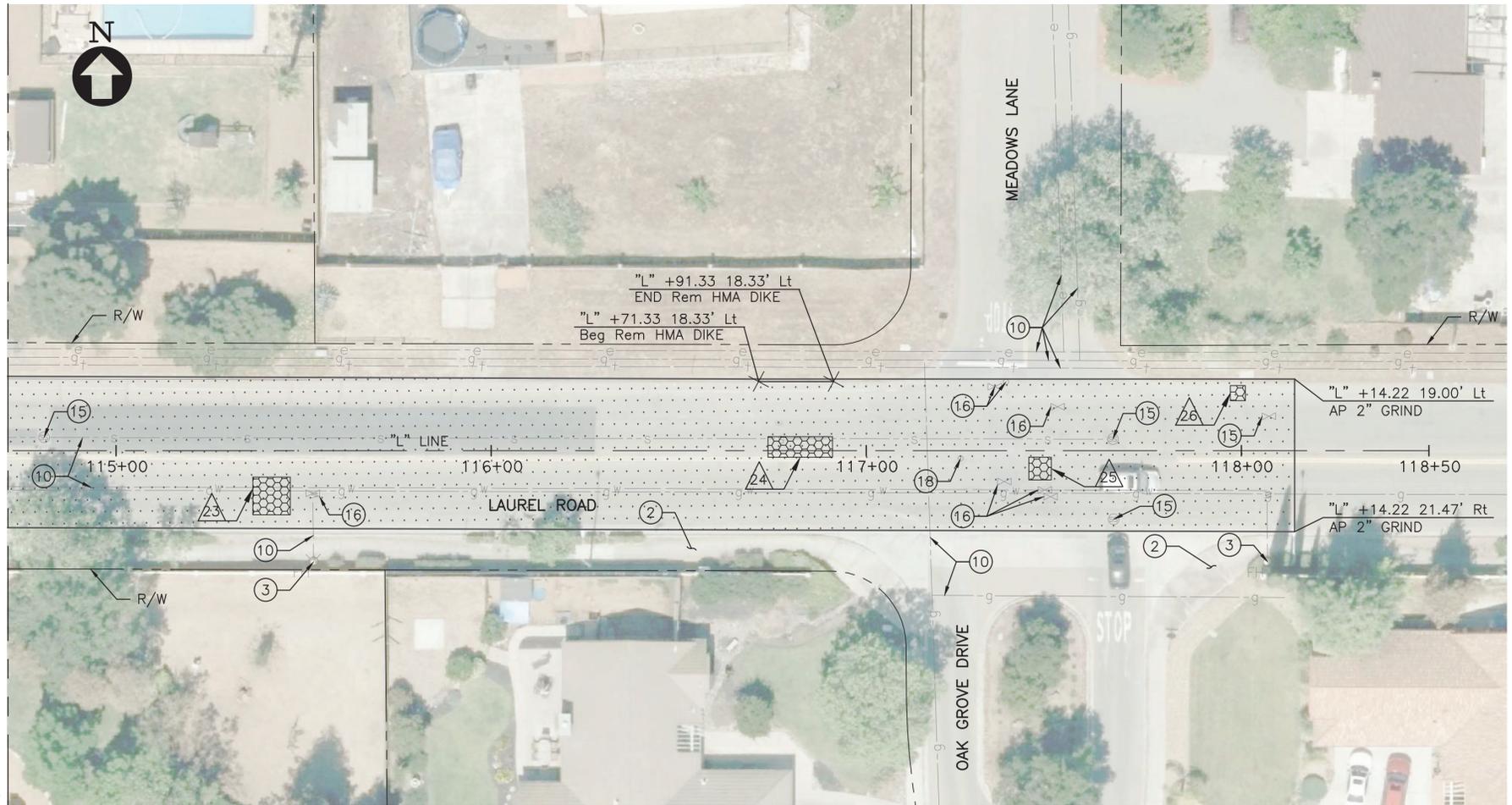


CIP 208 - LAUREL ROAD WIDENING PROJECT  
FROM MELLOWOOD DRIVE TO MAIN STREET  
DEMOLITION PLAN  
CONTRA COSTA COUNTY CALIFORNIA  
OAKLEY

Date: 01/15/2020	No.	Revisions
Scale: AS NOTED	A	DRAFT SUBMITTAL 01/15/20
Design: CC	B	FINAL SUBMITTAL 03/04/20
Drawn: AH		
Approved: MC		
Job No: 20176057-10		

**NOTES:**

- THIS PLAN IS ACCURATE FOR DEMOLITION WORK ONLY.
- FOR GEOMETRY OF CONTROL LINE, SEE PROJECT CONTROL DRAWING.
- SAWCUT EXISTING PAVEMENT AND/OR PAVEMENT EDGE TO A NEAT LINE, PROTECT VERTICAL EDGE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR THEIR OWN EARTHWORK QUANTITY CALCULATIONS.
- NO COMPACTION OR EXPANSION FACTORS HAVE BEEN APPLIED.
- REMOVE MEDIAN, SIDEWALK AND GUTTER TO NEAREST SCOREMARK JOINT.
- THE LINES AND THICKNESS SHOWN FOR THE REMOVAL OF PAVEMENT, CURB AND GUTTER, SIDEWALK AND ALL OTHER CIVIL CONSTRUCTION WORK ARE FOR INFORMATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXTENT OF WORK BASED ON THE SPACE REQUIRED TO PERFORM THE CONSTRUCTION WORK AND/OR THE CONTRACTOR'S MEANS AND METHODS AND REQUIREMENTS FOR SHORING, EXCAVATION AND TEMPORARY SUPPORT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION UNLESS OTHERWISE NOTED ON PLANS. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
- PAVEMENT, AGGREGATE BASE AND SUBGRADE MATERIAL SHALL BE REMOVED TO THE LINES AND GRADES SHOWN ON THESE PLANS.
- FOR CUT AND FILL INFORMATION, SEE GRADING PLANS.
- FOR RELOCATION OF UTILITIES IN CONFLICT WITH THE WORK, SEE UTILITY PLANS.
- NOT USED.
- CONTRACTOR SHALL CLEAR AND GRUB AREA PRIOR TO EXCAVATING NATIVE MATERIAL.
- IN AREAS TO RECEIVE OVERLAY, UTILITIES SHALL BE LOWERED FOR GRADING OPERATIONS AND RAISED TO FINAL GRADE.
- THESE AREAS HAVE SIERRACRETE AS A ROADWAY BASE MATERIAL. SIERRACRETE SHALL BE COMPLETELY REMOVED FROM THE ROADBED. SEE UTILITY PLANS FOR EXISTING PAVEMENT THICKNESS. CONTRACTOR SHALL NOTIFY CITY ENGINEER IF SIERRACRETE IS FOUND OUTSIDE THE LIMIT SHOWN ON THESE PLANS. CONTRACTOR SHALL REMOVE SIERRACRETE BELOW (E) C&G TO REMAIN, SEE DETAIL **(6)** CD-3
- REMOVE IRRIGATION FACILITIES IN CONFLICT WITH THE WORK. SEE IRRIGATION PLANS FOR MORE INFORMATION.
- FOR LIGHTING AND TRAFFIC SIGNAL WORK, SEE ELECTRICAL AND TRAFFIC SIGNAL PLANS.
- FOR SIGN REMOVAL, RELOCATION AND SALVAGE, SEE SIGNING AND STRIPING PLAN.
- CONTRACTOR SHALL REMOVE TREES AND TREE STUMPS TO A DEPTH OF 3' BELOW GROUND AND (E) IRRIGATION INFRASTRUCTURE AS PART OF CLEAR AND GRUB WORK.
- CONTRACTOR SHALL INSTALL 4' ORANGE CONSTRUCTION FENCE PRIOR TO ANY WORK. 4' ORANGE CONSTRUCTION FENCE SHALL BE MAINTAINED AND KEPT UPRIGHT FOR THE DURATION OF THE PROJECT.
- CONFIRM LIMITS OF BASE REPAIR WITH CITY ENGINEER PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE COMPLETED PRIOR TO ANY GRINDING AND OVERLAY OPERATIONS.
- FOR TREE PROTECTION DETAILS, SEE PLANTING PLANS, SEE DETAIL **(7)** LA-5



MATCH LINE  
SEE DRAWING NO. DM-5

**ITEMS OF WORK:**

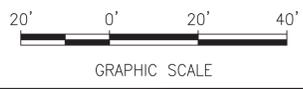
- |  |   |
|--|---|
| ① PROTECT IN PLACE (E) CURB OR CURB AND GUTTER   | ⑭ ADJUST TO GRADE (E) SDMH, SEE GRADING AND DRAINAGE PLAN |
| ② PROTECT IN PLACE (E) SIDEWALK  | ⑮ ADJUST TO GRADE (E) SSMH, SEE NOTE 14                   |
| ③ PROTECT IN PLACE (E) FIRE HYDRANT  | ⑯ ADJUST TO GRADE (E) WATER VALVE, SEE NOTE 14            |
| ④ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No. 1 SURVEY MONUMENT SEE NOTE 8 <b>(8)</b> CD-2 | ⑰ PROTECT IN PLACE (E) TREE, SEE NOTE 22                  |
| ⑤ PROTECT IN PLACE (E) DRAINAGE INLET  | ⑱ ADJUST TO GRADE (E) SURVEY MONUMENT <b>(3)</b> CD-2     |
| ⑥ PROTECT IN PLACE (E) LIGHT POLE  |   |
| ⑦ PROTECT IN PLACE (E) JOINT POLE & GUY WIRE   |   |
| ⑧ PROTECT IN PLACE (E) WOOD FENCE  |   |
| ⑨ PROTECT IN PLACE (E) WALL  |   |
| ⑩ PROTECT IN PLACE (E) UTILITY LINE  |   |
| ⑪ PROTECT IN PLACE (E) UTILITY BOX   |   |
| ⑫ PROTECT IN PLACE (E) ELECTRICAL BOX  |   |
| ⑬ ADJUST TO GRADE (E) UTILITY BOX  |   |

**PLAN**

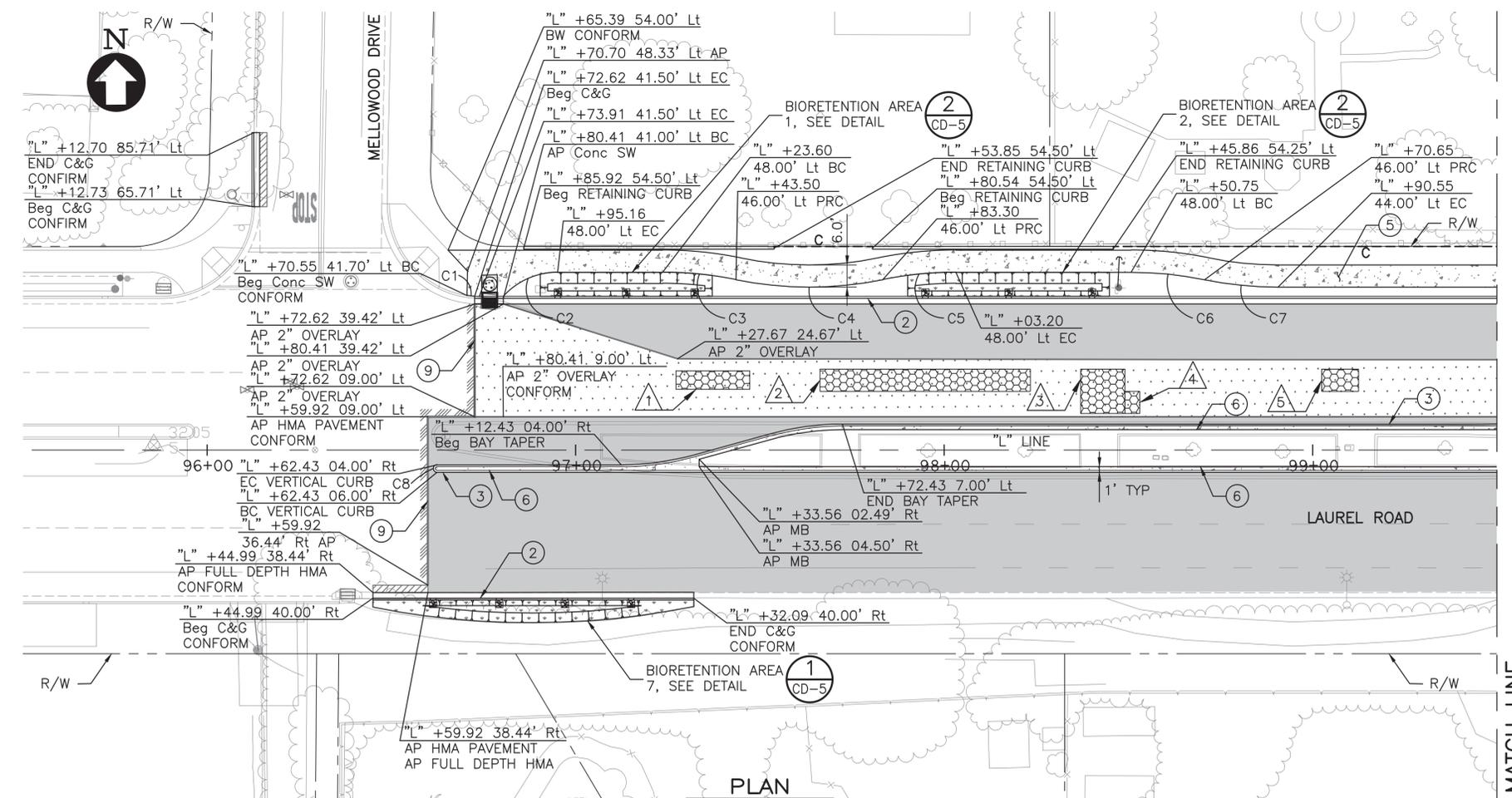
SCALE: 1"=20'

**LEGEND:**

- REMOVE CONCRETE PAVEMENT AND BASE MATERIAL (SEE NOTE 9)
- ROADWAY EXCAVATION & SIERRACRETE REMOVAL (SEE NOTES 9 & 15)
- 2" AC GRIND (SEE NOTE 14)
- CLEAR AND GRUB AREA AND COMMON EXCAVATION (SEE NOTE 9 AND NOTE 19)
- REMOVE MEDIAN PAVING
- 4" BASE REPAIR (SEE NOTE 21) **(2)** CD-7
- REMOVE CURB & GUTTER
- REMOVE HMA DIKE
- 4' ORANGE CONSTRUCTION FENCE (SEE NOTE 20)
- SAWCUT
- REMOVE TREE
- (E) TREE
- (E) WOOD POLE
- (E) SIGN STRUCTURE
- BASE REPAIR LOCATION



BKF ENGINEERS  
 4670 WILLOW RD  
 SUITE 200  
 PULVER, CA 94568  
 925-396-7700  
 925-396-7799 (FAX)



PLAN  
SCALE: 1"=20'

**CURVE DATA**

No. #	R	Δ	T	L
C1	24.59'	4°50'20"	1.04'	2.08'
C2	20.00'	47°32'38"	8.81'	16.60'
C3	100.00'	11°28'42"	10.05'	20.03'
C4	100.00'	22°57'24"	20.31'	40.07'
C5	100.00'	11°28'42"	10.05'	20.03'
C6	100.00'	11°28'42"	10.05'	20.03'
C7	100.00'	11°28'42"	10.05'	20.03'
C8	1.00'	180°00'00"	INFINITY'	3.14'

- LEGEND:**
- PCC SIDEWALK/MAINTENANCE BAND
  - HMA SIDEWALK
  - 2" RHMA-G PVMT, 6" HMA (TYPE A) OVER 14.5" CL2 AB
  - 2" RHMA-G OVERLAY WITH PAVING MAT
  - 2" RHMA-G PVMT, 14.5" FULL DEPTH HMA (TYPE A)
  - PCC DRIVEWAY
  - BIORETENTION AREA
  - 4" BASE REPAIR
  - CURB AND GUTTER
  - MEDIAN CURB OR HMA DIKE
  - CONFORM GRIND
  - CUT / FILL LINE
  - TOE OF CUT
  - TOP OF CUT
  - PROPOSED STORM DRAIN INLET
  - BASE REPAIR LOCATION

**NOTES:**

1. FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING PLAN.
2. FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
4. MAINTAIN MAXIMUM 1.5% CROSS SLOPE IN PEDESTRIAN TRAVELED WAYS AND 1.5% CROSS SLOPE BEHIND AND IN FRONT OF ALL CURB RAMPS.
5. IF GRASS OR LANDSCAPING IS DISTURBED BY ADJACENT WORK IT SHALL BE RESTORED WITH LIKE KIND UPON COMPLETION OF WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF THERE ARE ANY CONFLICTS WITH PLANS THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
7. FOR UTILITY WORK, SEE UTILITY PLAN.
8. FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
9. FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

**ITEMS OF WORK:**

- ① CURB RAMP (CALTRANS CASE A), SEE DETAIL CD-1
- ② CITY STANDARD CURB & GUTTER, SEE DETAIL CD-1
- ③ CONCRETE VERTICAL CURB, SEE DETAIL CD-1
- ④ CITY STANDARD DRIVEWAY, SEE DETAIL CD-1
- ⑤ CITY STANDARD SIDEWALK, SEE DETAIL CD-1
- ⑥ PCC MAINTENANCE BAND, SEE DETAIL CD-3
- ⑦ HMA DIKE TYPE A, SEE DETAIL CD-4
- ⑧ HMA DIKE AND SIDEWALK, SEE DETAIL CD-3
- ⑨ CONFORM GRIND, SEE DETAILS CD-1, CD-1
- ⑩ RETAINING CURB, SEE DETAIL CD-4
- ⑪ CURB RAMP (CALTRANS CASE C), SEE DETAIL CD-1
- ⑫ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL CD-2



4670 WILLOW RD  
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**BKF**  
ENGINEERS / SURVEYORS / PLANNERS

**OAKLEY**  
CALIFORNIA

**CIP 208 - LAUREL ROAD WIDENING PROJECT  
FROM MELLOWOOD DRIVE TO MAIN STREET  
SITE PLAN**

OAKLEY    CONTRA COSTA COUNTY    CALIFORNIA

No.	Date	Revisions
A	01/15/2020	DRAFT SUBMITTAL
B	03/04/20	FINAL SUBMITTAL

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number: **S-1**  
12 OF 71

No.	Revisions
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

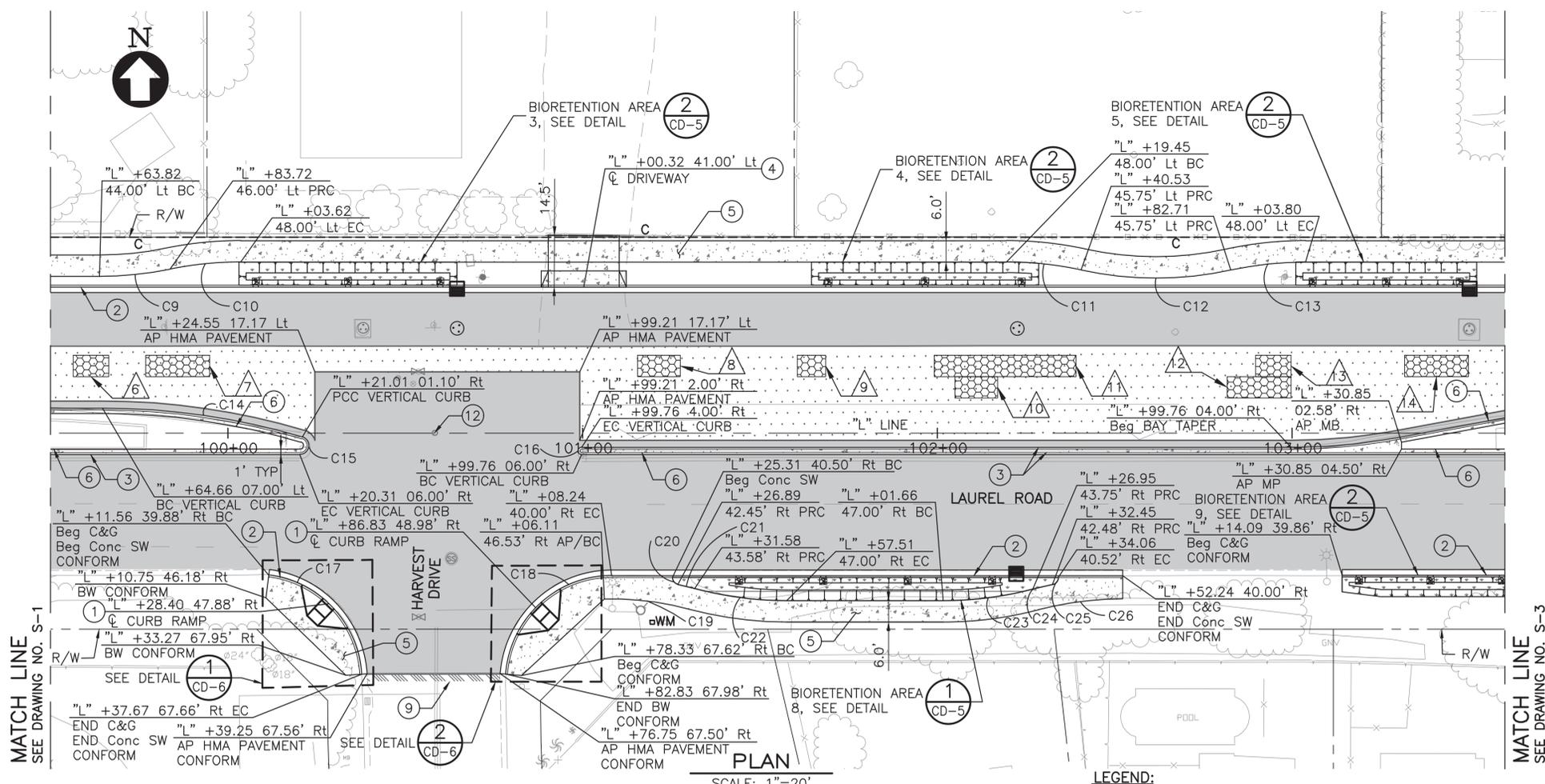
Date: 01/15/2020	Scale: AS NOTED	Design: CC	Drawn: AH	Approved: MC
Drawing Number: S-2				
13 OF 71				

**NOTES:**

- FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING PLAN.
- FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
- MAINTAIN MAXIMUM 1.5% CROSS SLOPE IN PEDESTRIAN TRAVELED WAYS AND 1.5% CROSS SLOPE BEHIND AND IN FRONT OF ALL CURB RAMPS.
- IF GRASS OR LANDSCAPING IS DISTURBED BY ADJACENT WORK IT SHALL BE RESTORED WITH LIKE KIND UPON COMPLETION OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF THERE ARE ANY CONFLICTS WITH PLANS THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- FOR UTILITY WORK, SEE UTILITY PLAN.
- FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
- FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

**ITEMS OF WORK:**

- CURB RAMP (CALTRANS CASE A), SEE DETAIL CD-1
- CITY STANDARD CURB & GUTTER, SEE DETAIL CD-1
- CONCRETE VERTICAL CURB, SEE DETAIL CD-1
- CITY STANDARD DRIVEWAY, SEE DETAIL CD-1
- CITY STANDARD SIDEWALK, SEE DETAIL CD-1
- PCC MAINTENANCE BAND, SEE DETAIL CD-3
- HMA DIKE TYPE A, SEE DETAIL CD-4  
SEE NOTE 9
- HMA DIKE AND SIDEWALK, SEE DETAIL CD-3
- CONFORM GRIND, SEE DETAILS CD-1 CD-1
- RETAINING CURB, SEE DETAIL CD-4
- CURB RAMP (CALTRANS CASE C), SEE DETAIL CD-1
- RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL CD-2

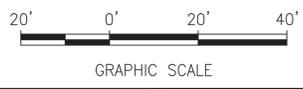


**CURVE DATA**

No. #	R	Δ	T	L
C9	100.00'	11°28'42"	10.05'	20.03'
C10	100.00'	11°28'42"	10.05'	20.03'
C11	100.00'	12°10'29"	10.66'	21.25'
C12	100.00'	24°20'58"	21.57'	42.50'
C13	100.00'	12°10'29"	10.66'	21.25'
C14	200.00'	16°21'49"	28.76'	57.12'
C15	2.50'	163°38'11"	17.39'	7.14'
C16	1.00'	180°00'00"	INFINITY'	3.14'
C17	30.00'	78°54'25"	24.69'	41.32'
C18	30.00'	85°27'27"	27.71'	44.75'
C19	84.00'	16°28'45"	12.16'	24.16'
C20	2.00'	78°02'11"	1.62'	2.72'
C21	90.00'	3°04'00"	2.41'	4.82'
C22	100.00'	15°01'49"	13.19'	26.23'
C23	100.00'	14°38'51"	12.85'	25.56'
C24	100.00'	3°14'07"	2.82'	5.65'
C25	2.00'	78°35'16"	1.64'	2.74'
C26	94.00'	14°38'51"	12.08'	24.03'

**LEGEND:**

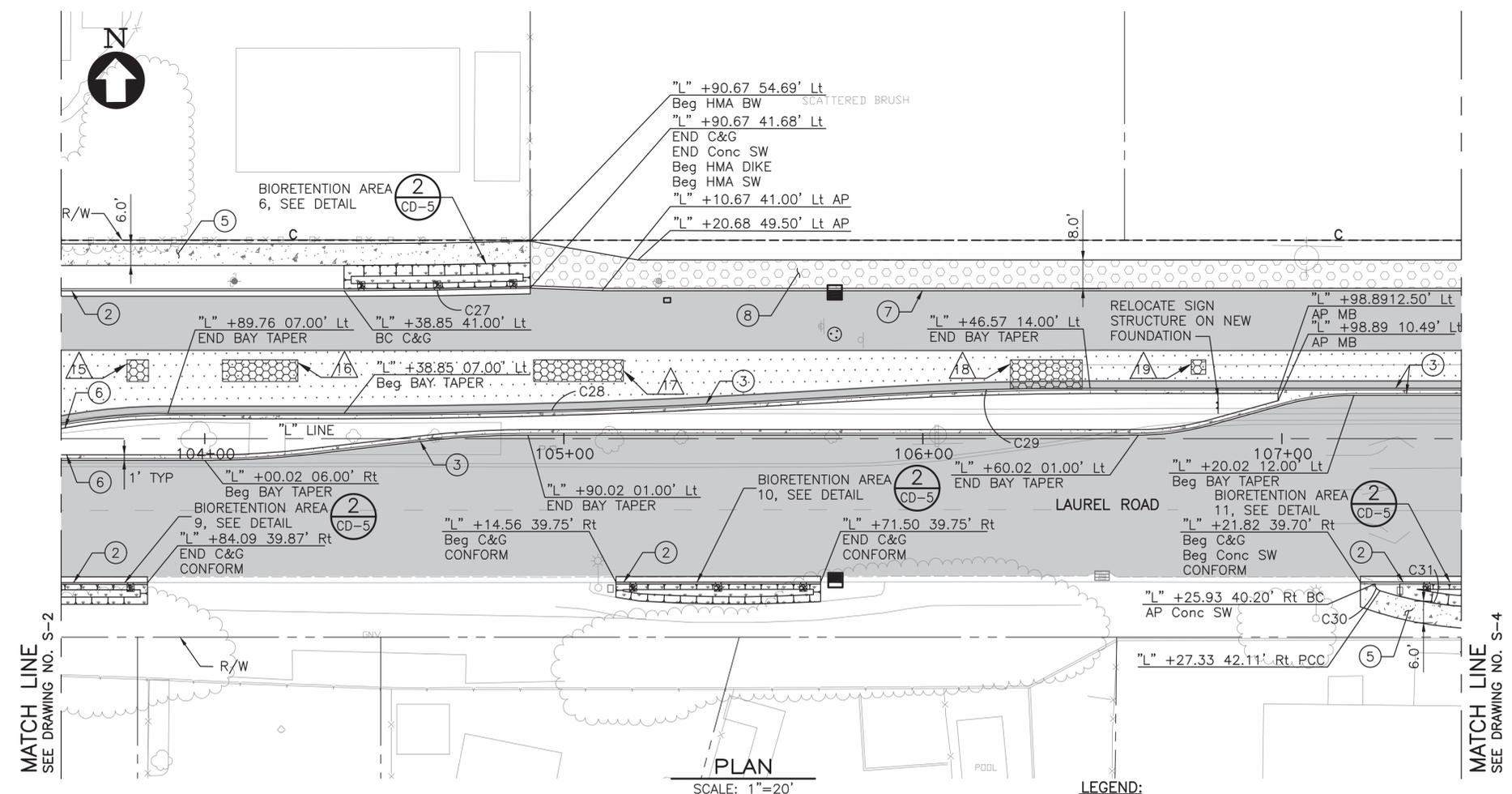
- PCC SIDEWALK/MAINTENANCE BAND
- HMA SIDEWALK
- 2" RHMA-G PVMT, 6" HMA (TYPE A) OVER 14.5" CL2 AB
- 2" RHMA-G OVERLAY WITH PAVING MAT CD-7
- 2" RHMA-G PVMT, 14.5" FULL DEPTH HMA (TYPE A) CD-7
- PCC DRIVEWAY
- BIORETENTION AREA
- 4" BASE REPAIR CD-7
- CURB AND GUTTER CD-1
- MEDIAN CURB OR HMA DIKE CD-1 CD-4
- CONFORM GRIND CD-1 CD-1
- CUT / FILL LINE
- TOE OF CUT
- TOP OF CUT
- PROPOSED STORM DRAIN INLET
- BASE REPAIR LOCATION



MATCH LINE  
SEE DRAWING NO. S-1

MATCH LINE  
SEE DRAWING NO. S-3

SCALE: 1"=20'



**CURVE DATA**

No. #	R	Δ	T	L
C27	1966.00'	1°30'37"	25.91'	51.82'
C28	2000.00'	3°18'35"	57.78'	115.53'
C29	1000.00'	3°18'35"	28.89'	57.76'
C30	2.00'	72°34'09"	1.47'	2.53'
C31	100.00'	17°25'51"	15.33'	30.42'

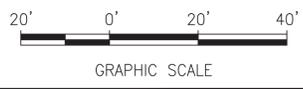
- LEGEND:**
- PCC SIDEWALK/MAINTENANCE BAND
  - HMA SIDEWALK
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  - 2" RHMA-G OVERLAY WITH PAVING MAT
  - 2" RHMA-G PVMT, 14.5" FULL DEPTH HMA (TYPE A)
  - PCC DRIVEWAY
  - BIORETENTION AREA
  - 4" BASE REPAIR
  - CURB AND GUTTER
  - MEDIAN CURB OR HMA DIKE
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  - BASE REPAIR LOCATION

**NOTES:**

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2. FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
4. MAINTAIN MAXIMUM 1.5% CROSS SLOPE IN PEDESTRIAN TRAVELED WAYS AND 1.5% CROSS SLOPE BEHIND AND IN FRONT OF ALL CURB RAMPS.
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7. FOR UTILITY WORK, SEE UTILITY PLAN.
8. FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
9. FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

**ITEMS OF WORK:**

- ① CURB RAMP (CALTRANS CASE A), SEE DETAIL CD-1
- ② CITY STANDARD CURB & GUTTER, SEE DETAIL CD-1
- ③ CONCRETE VERTICAL CURB, SEE DETAIL CD-1
- ④ CITY STANDARD DRIVEWAY, SEE DETAIL CD-1
- ⑤ CITY STANDARD SIDEWALK, SEE DETAIL CD-1
- ⑥ PCC MAINTENANCE BAND, SEE DETAIL CD-3
- ⑦ HMA DIKE TYPE A, SEE DETAIL CD-4
- ⑧ HMA DIKE AND SIDEWALK, SEE DETAIL CD-3
- ⑨ CONFORM GRIND, SEE DETAILS CD-1, CD-1
- ⑩ RETAINING CURB, SEE DETAIL CD-4
- ⑪ CURB RAMP (CALTRANS CASE C), SEE DETAIL CD-1
- ⑫ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL CD-2

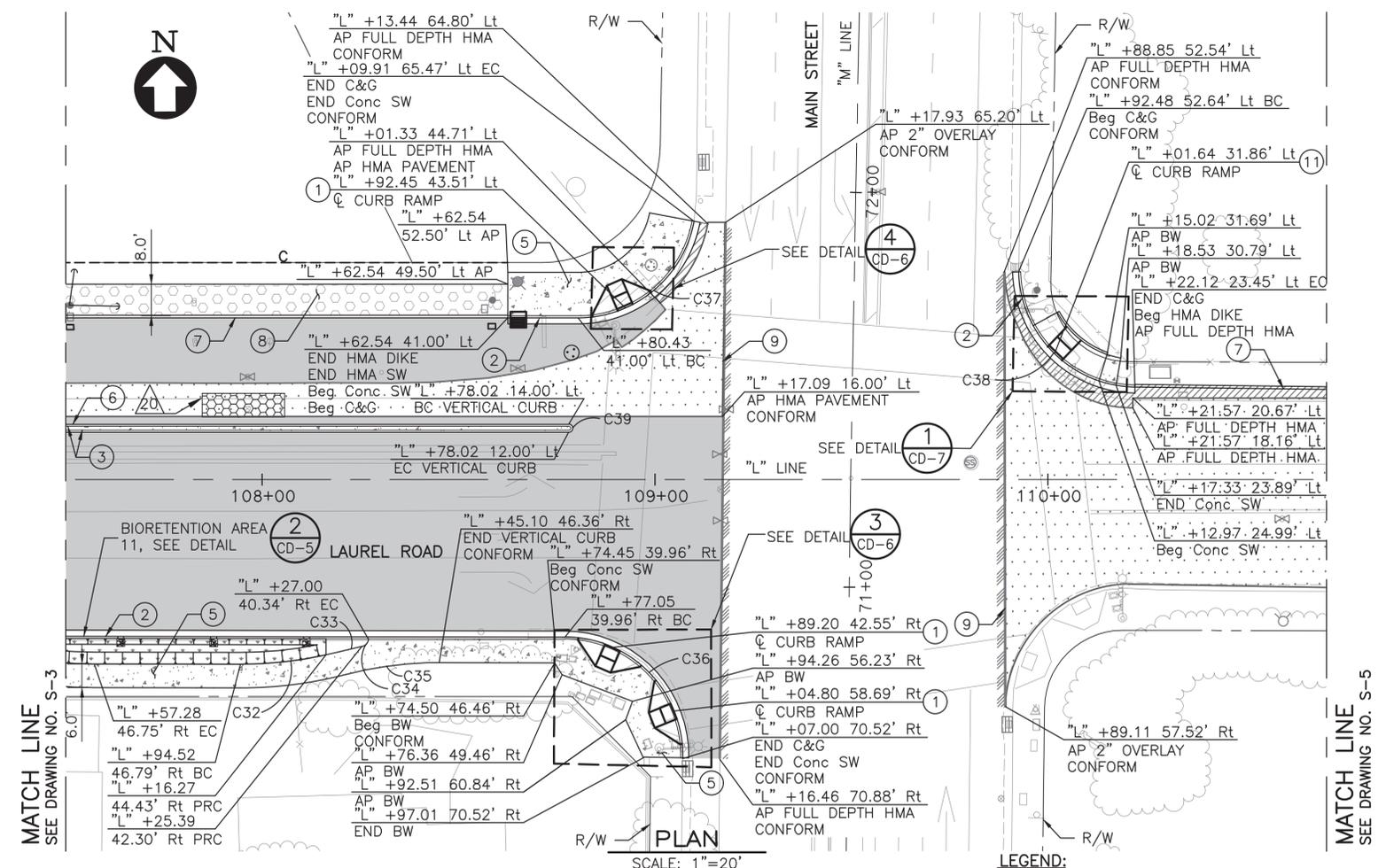


No.	Date	Revisions
A	01/15/2020	DRAFT SUBMITTAL
B	03/04/20	FINAL SUBMITTAL

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number: **S-3**

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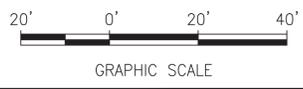
**CURVE DATA**

No. #	R	Δ	T	L
C32	100.00'	14°38'51"	12.85'	25.56'
C33	100.00'	3°16'56"	2.87'	5.73'
C34	2.00'	77°32'18"	1.61'	2.71'
C35	94.00'	12°51'24"	10.59'	21.09'
C36	30.00'	90°57'34"	30.51'	47.63'
C37	30.00'	79°22'11"	24.89'	41.56'
C38	30.00'	87°47'24"	28.86'	45.97'
C39	1.00'	180°00'00"	INFINITY'	3.14'

- LEGEND:**
- PCC SIDEWALK/MAINTENANCE BAND
  - HMA SIDEWALK
  - 2" RHMA-G PVMT, 6" HMA (TYPE A) OVER 14.5" CL2 AB
  - 2" RHMA-G OVERLAY WITH PAVING MAT 2  
CD-7
  - 2" RHMA-G PVMT, 14.5" FULL DEPTH HMA (TYPE A)
  - PCC DRIVEWAY
  - BIORETENTION AREA
  - 4" BASE REPAIR 2  
CD-7
  - CURB AND GUTTER 2  
CD-1
  - MEDIAN CURB OR HMA DIKE 5 2  
CD-1 CD-4
  - CONFORM GRIND 4 7  
CD-1 CD-1
  - C/F CUT / FILL LINE
  - TOE OF CUT
  - TOP OF CUT
  - PROPOSED STORM DRAIN INLET
  - BASE REPAIR LOCATION

- NOTES:**
- FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING PLAN.
  - FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
  - MAINTAIN MAXIMUM 1.5% CROSS SLOPE IN PEDESTRIAN TRAVELED WAYS AND 1.5% CROSS SLOPE BEHIND AND IN FRONT OF ALL CURB RAMPS.
  - IF GRASS OR LANDSCAPING IS DISTURBED BY ADJACENT WORK IT SHALL BE RESTORED WITH LIKE KIND UPON COMPLETION OF WORK.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF THERE ARE ANY CONFLICTS WITH PLANS THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
  - FOR UTILITY WORK, SEE UTILITY PLAN.
  - FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
  - FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

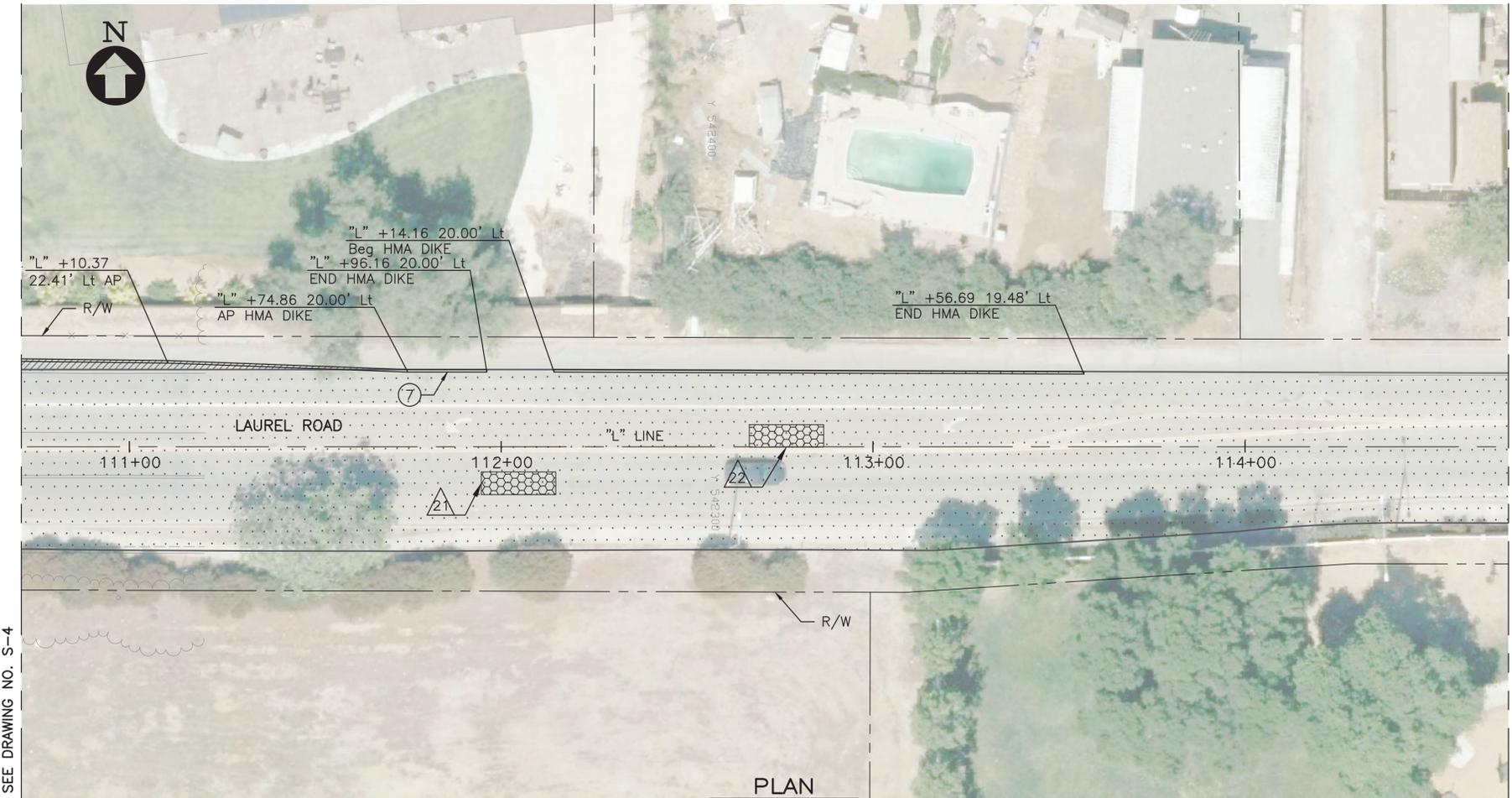
- ITEMS OF WORK:**
- CURB RAMP (CALTRANS CASE A), SEE DETAIL 1  
CD-1
  - CITY STANDARD CURB & GUTTER, SEE DETAIL 2  
CD-1
  - CONCRETE VERTICAL CURB, SEE DETAIL 5  
CD-1
  - CITY STANDARD DRIVEWAY, SEE DETAIL 6  
CD-1
  - CITY STANDARD SIDEWALK, SEE DETAIL 3  
CD-1
  - PCC MAINTENANCE BAND, SEE DETAIL 5  
CD-3
  - HMA DIKE TYPE A, SEE DETAIL 2  
CD-4
  - HMA DIKE AND SIDEWALK, SEE DETAIL 2  
CD-3
  - CONFORM GRIND, SEE DETAILS 4 7  
CD-1 CD-1
  - RETAINING CURB, SEE DETAIL 1  
CD-4
  - CURB RAMP (CALTRANS CASE C), SEE DETAIL 1  
CD-1
  - RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL 8  
CD-2



No.	Revisions
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number:  
**S-5**  
16 OF 71



MATCH LINE  
SEE DRAWING NO. S-4

MATCH LINE  
SEE DRAWING NO. S-6

**PLAN**  
SCALE: 1"=20'

**LEGEND:**

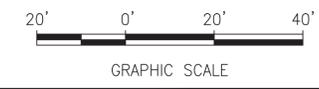
- PCC SIDEWALK/MAINTENANCE BAND
- HMA SIDEWALK
- 2" RHMA-G PVMT, 6" HMA (TYPE A) OVER 14.5" CL2 AB
- 2" RHMA-G OVERLAY WITH PAVING MAT <sup>2</sup>/<sub>CD-7</sub>
- 2" RHMA-G PVMT, 14.5" FULL DEPTH HMA (TYPE A)
- PCC DRIVEWAY
- BIORETENTION AREA
- 4" BASE REPAIR <sup>2</sup>/<sub>CD-7</sub>
- CURB AND GUTTER <sup>2</sup>/<sub>CD-1</sub>
- MEDIAN CURB OR HMA DIKE <sup>5</sup>/<sub>CD-1</sub> <sup>2</sup>/<sub>CD-4</sub>
- CONFORM GRIND <sup>4</sup>/<sub>CD-1</sub> <sup>7</sup>/<sub>CD-1</sub>
- C/F CUT / FILL LINE
- TOE OF CUT
- TOP OF CUT
- PROPOSED STORM DRAIN INLET
- BASE REPAIR LOCATION

**NOTES:**

1. FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING PLAN.
2. FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY BENCHMARK OR MONUMENTATION. IF A BENCHMARK OR MONUMENTATION IS DISTURBED, THE CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESTORE THE BENCHMARK OR MONUMENTATION AT THE CONTRACTOR'S EXPENSE.
4. MAINTAIN MAXIMUM 1.5% CROSS SLOPE IN PEDESTRIAN TRAVELED WAYS AND 1.5% CROSS SLOPE BEHIND AND IN FRONT OF ALL CURB RAMPS.
5. IF GRASS OR LANDSCAPING IS DISTURBED BY ADJACENT WORK IT SHALL BE RESTORED WITH LIKE KIND UPON COMPLETION OF WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF THERE ARE ANY CONFLICTS WITH PLANS THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
7. FOR UTILITY WORK, SEE UTILITY PLAN.
8. FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
9. FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

**ITEMS OF WORK:**

- ① CURB RAMP (CALTRANS CASE A), SEE DETAIL <sup>1</sup>/<sub>CD-1</sub>
- ② CITY STANDARD CURB & GUTTER, SEE DETAIL <sup>2</sup>/<sub>CD-1</sub>
- ③ CONCRETE VERTICAL CURB, SEE DETAIL <sup>5</sup>/<sub>CD-1</sub>
- ④ CITY STANDARD DRIVEWAY, SEE DETAIL <sup>6</sup>/<sub>CD-1</sub>
- ⑤ CITY STANDARD SIDEWALK, SEE DETAIL <sup>3</sup>/<sub>CD-1</sub>
- ⑥ PCC MAINTENANCE BAND, SEE DETAIL <sup>5</sup>/<sub>CD-3</sub>
- ⑦ HMA DIKE TYPE A, SEE DETAIL <sup>2</sup>/<sub>CD-4</sub> SEE NOTE 9
- ⑧ HMA DIKE AND SIDEWALK, SEE DETAIL <sup>2</sup>/<sub>CD-3</sub>
- ⑨ CONFORM GRIND, SEE DETAILS <sup>4</sup>/<sub>CD-1</sub> <sup>7</sup>/<sub>CD-1</sub>
- ⑩ RETAINING CURB, SEE DETAIL <sup>1</sup>/<sub>CD-4</sub>
- ⑪ CURB RAMP (CALTRANS CASE C), SEE DETAIL <sup>1</sup>/<sub>CD-1</sub>
- ⑫ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL <sup>8</sup>/<sub>CD-2</sub>

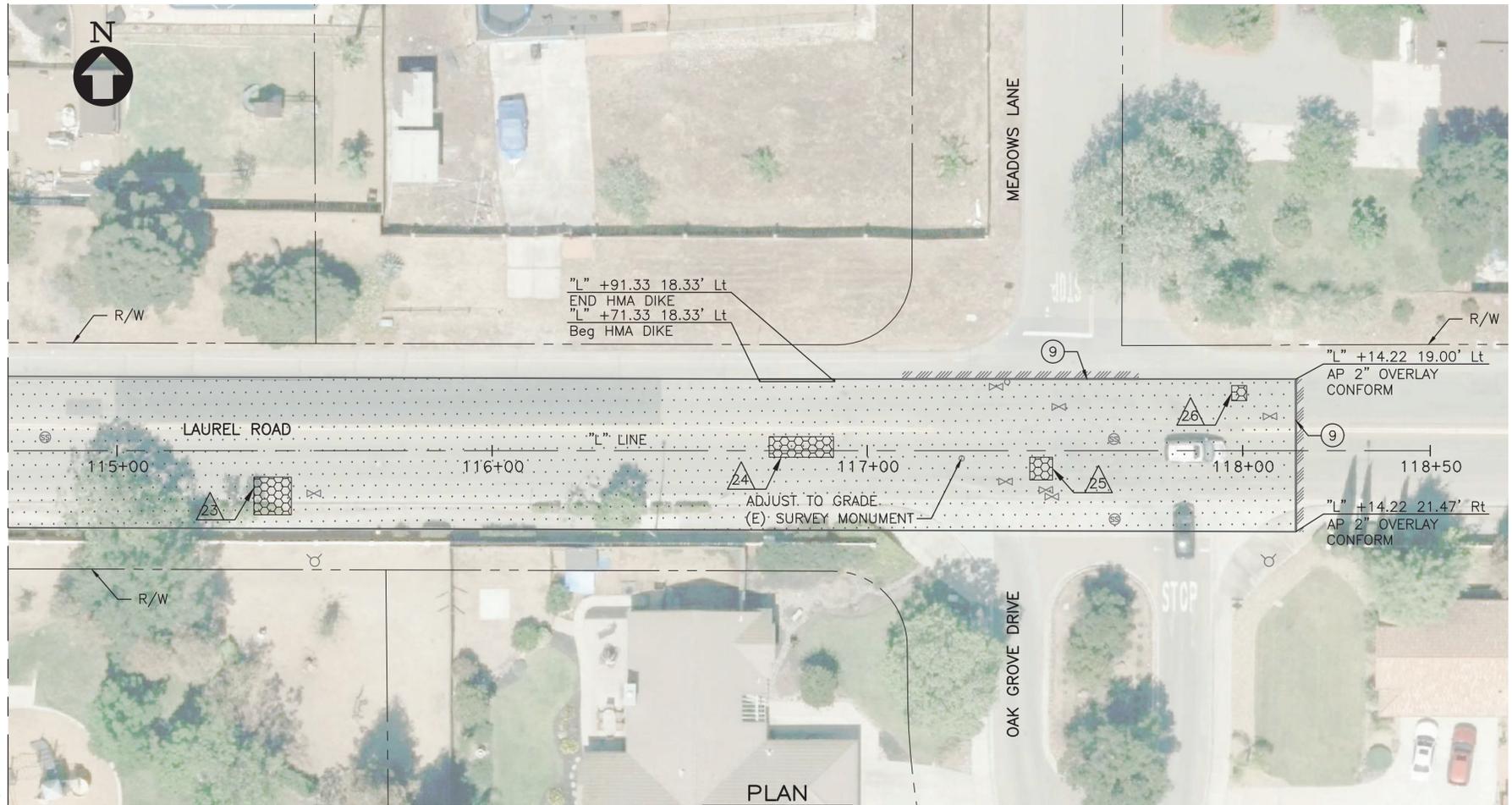


PROJECT: CIP 208 - LAUREL ROAD WIDENING PROJECT  
 DRAWING: S-5  
 DATE: 01/15/2020  
 SCALE: AS NOTED  
 DESIGN: CC  
 DRAWN: AH  
 APPROVED: MC  
 JOB NO: 20176057-10

No.	Revisions
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number:  
**S-6**  
17 OF 71



MATCH LINE  
SEE DRAWING NO. S-5

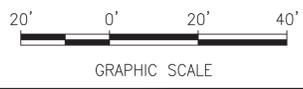
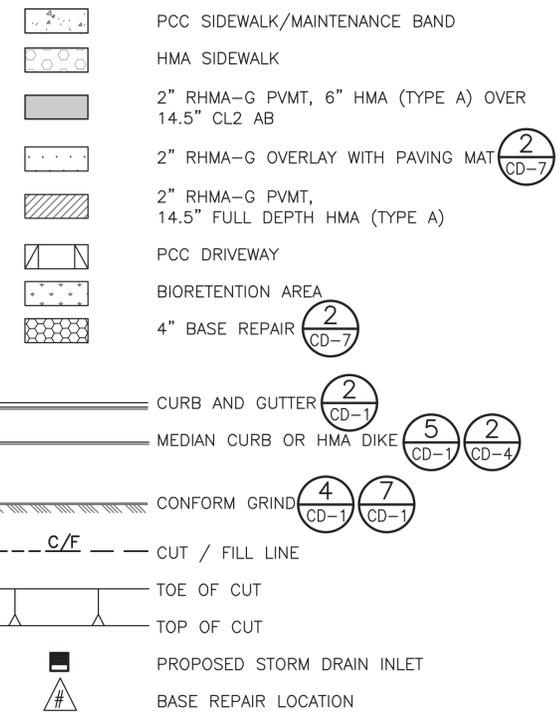
PLAN  
SCALE: 1"=20'

**NOTES:**

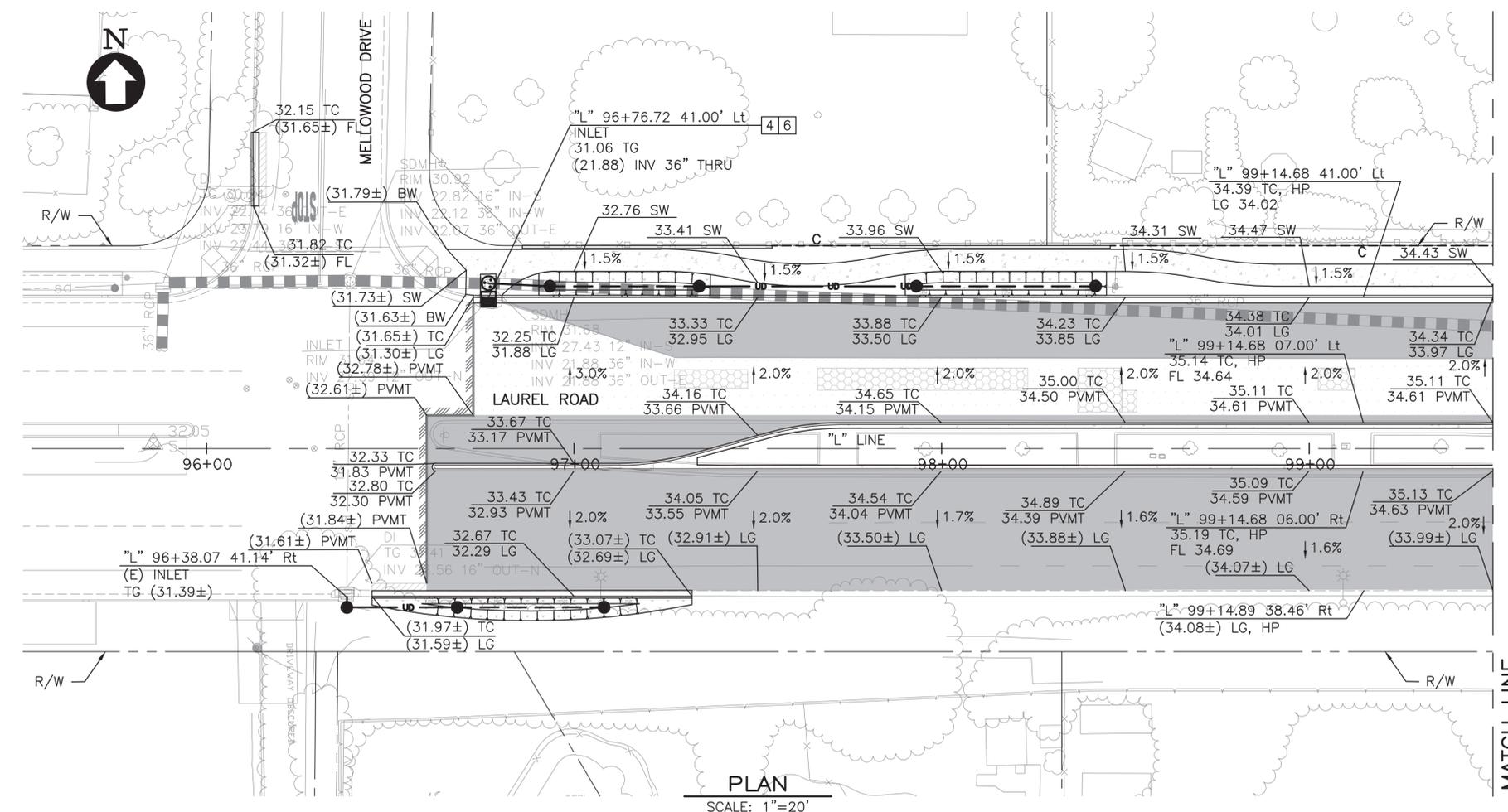
- FOR SIGN AND STRIPING INFORMATION, SEE SIGNING AND STRIPING PLAN.
- FOR GRADING AND DRAINAGE, SEE GRADING AND DRAINAGE PLAN.
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- FOR UTILITY WORK, SEE UTILITY PLAN.
- FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
- FOR LANDSCAPE AND IRRIGATION WORK, SEE LANDSCAPE AND IRRIGATION PLAN.

**ITEMS OF WORK:**

- ① CURB RAMP (CALTRANS CASE A), SEE DETAIL CD-1
- ② CITY STANDARD CURB & GUTTER, SEE DETAIL CD-1
- ③ CONCRETE VERTICAL CURB, SEE DETAIL CD-1
- ④ CITY STANDARD DRIVEWAY, SEE DETAIL CD-1
- ⑤ CITY STANDARD SIDEWALK, SEE DETAIL CD-1
- ⑥ PCC MAINTENANCE BAND, SEE DETAIL CD-3
- ⑦ HMA DIKE TYPE A, SEE DETAIL CD-4  
SEE NOTE 9
- ⑧ HMA DIKE AND SIDEWALK, SEE DETAIL CD-3
- ⑨ CONFORM GRIND, SEE DETAILS CD-1 CD-1
- ⑩ RETAINING CURB, SEE DETAIL CD-4
- ⑪ CURB RAMP (CALTRANS CASE C), SEE DETAIL CD-1
- ⑫ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No.1 SURVEY MONUMENT, SEE DETAIL CD-2



DATE PLOTTED: 01/15/2020 10:58:41 AM  
PLOT FILE: C:\PROJECTS\CIP 208 - LAUREL ROAD WIDENING PROJECT\DWG\S-6.dwg  
PLOT SCALE: 1"=20'



**PLAN**  
SCALE: 1"=20'

**MATCH LINE**  
SEE DRAWING NO. GD-2

**NOTES:**

- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
- THIS PLAN IS ACCURATE FOR GRADING AND DRAINAGE FACILITIES ONLY.
- CURB AND GUTTER ELEVATIONS ARE SHOWN AT 50' INTERVALS ALONG "L" LINE, UNLESS NOTES OTHERWISE.
- ALL EXISTING ABOVE GROUND UTILITY FEATURES SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED.
- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL **(1)** CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL **(4)** CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- Exist STORM DRAIN INLET
- Exist STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- PROPOSED 4" UNDERDRAIN LINE
- PROPOSED 4" PERFORATED UNDERDRAIN LINE
- CUT / FILL LINE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED CLEANOUT
- DRAINAGE SYSTEM NUMBER
- DRAINAGE STRUCTURE DESIGNATION
- (XX.XX) Exist ELEVATION
- XX.XX PROPOSED ELEVATION

**ITEMS OF WORK**

- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS **(4)** CD-2 **(5)** CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS **(3)** CD-4 **(4)** CD-4 **(5)** CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL **(3)** CD-2 **(3)** CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS **(5)** CD-2 **(7)** CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL **(7)** CD-3



Date	No.	Revisions
01/15/2020	A	DRAFT SUBMITTAL 01/15/20
	B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number:  
**GD-1**  
**25 OF 71**

DATE PLOTTED: 03/04/2020 09:51:23 AM  
PLOT FILE: C:\PROJECTS\CIP 208 - LAUREL ROAD WIDENING PROJECT\GD-1.dwg  
PLOTTER: HP DesignJet T1100e

No.	Revisions
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020	Scale: AS NOTED	Design: CC	Drawn: AH	Approved: MC
Job No: 20176057-10				

**NOTES:**

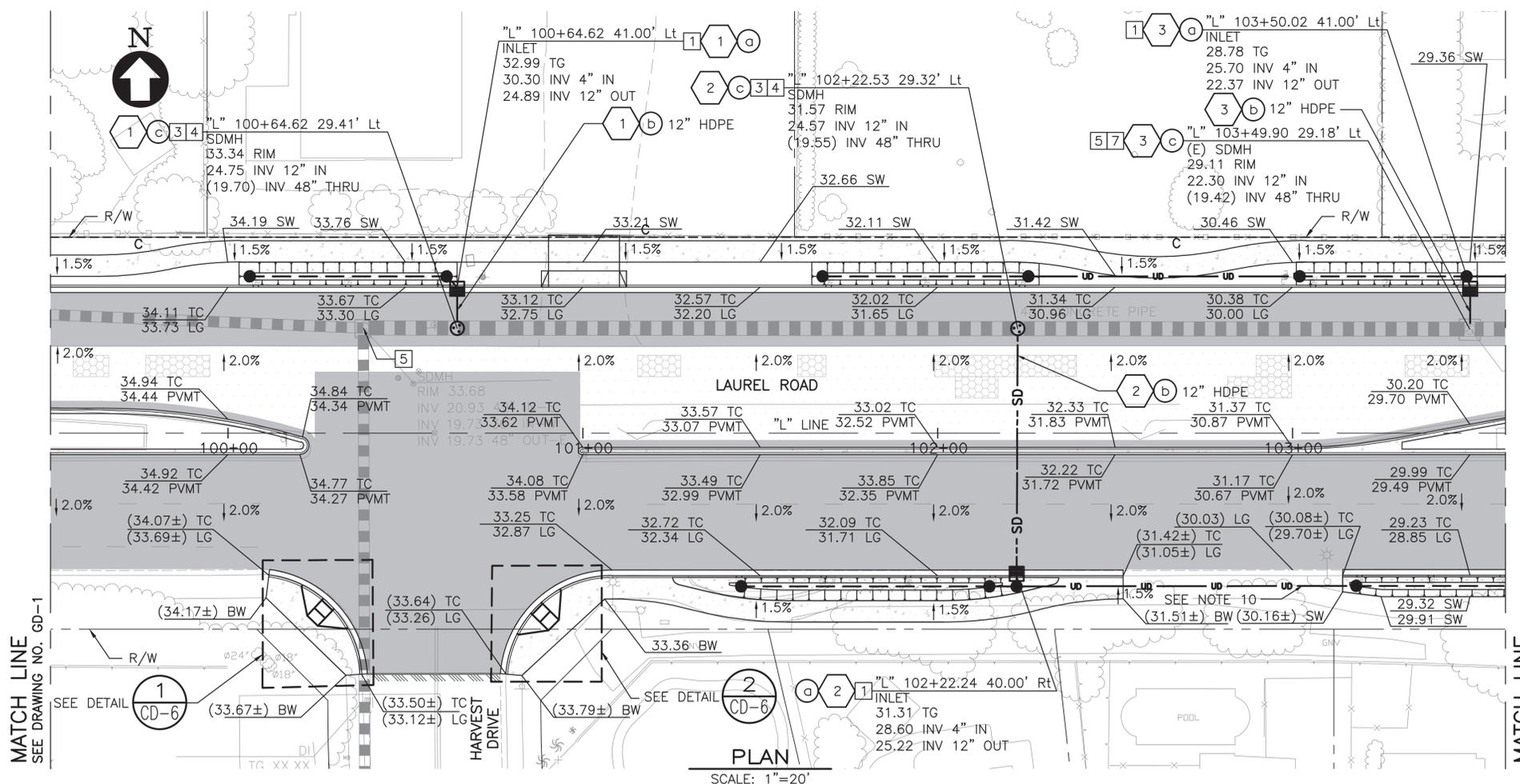
- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
- THIS PLAN IS ACCURATE FOR GRADING AND DRAINAGE FACILITIES ONLY.
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- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL **(1)** CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL **(4)** CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- sd ———— Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- ⊞ Exist STORM DRAIN INLET
- ⊕ Exist STORM DRAIN MANHOLE
- SD ———— PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- u—u— PROPOSED 4" UNDERDRAIN LINE
- p—p— PROPOSED 4" PERFORATED UNDERDRAIN LINE
- - - C/F - - - CUT / FILL LINE
- ⊞ PROPOSED STORM DRAIN INLET
- ⊕ PROPOSED STORM DRAIN MANHOLE
- PROPOSED CLEANOUT
- ① DRAINAGE SYSTEM NUMBER
- ⓐ DRAINAGE STRUCTURE DESIGNATION
- (XX.XX) Exist ELEVATION
- XX.XX PROPOSED ELEVATION

**ITEMS OF WORK**

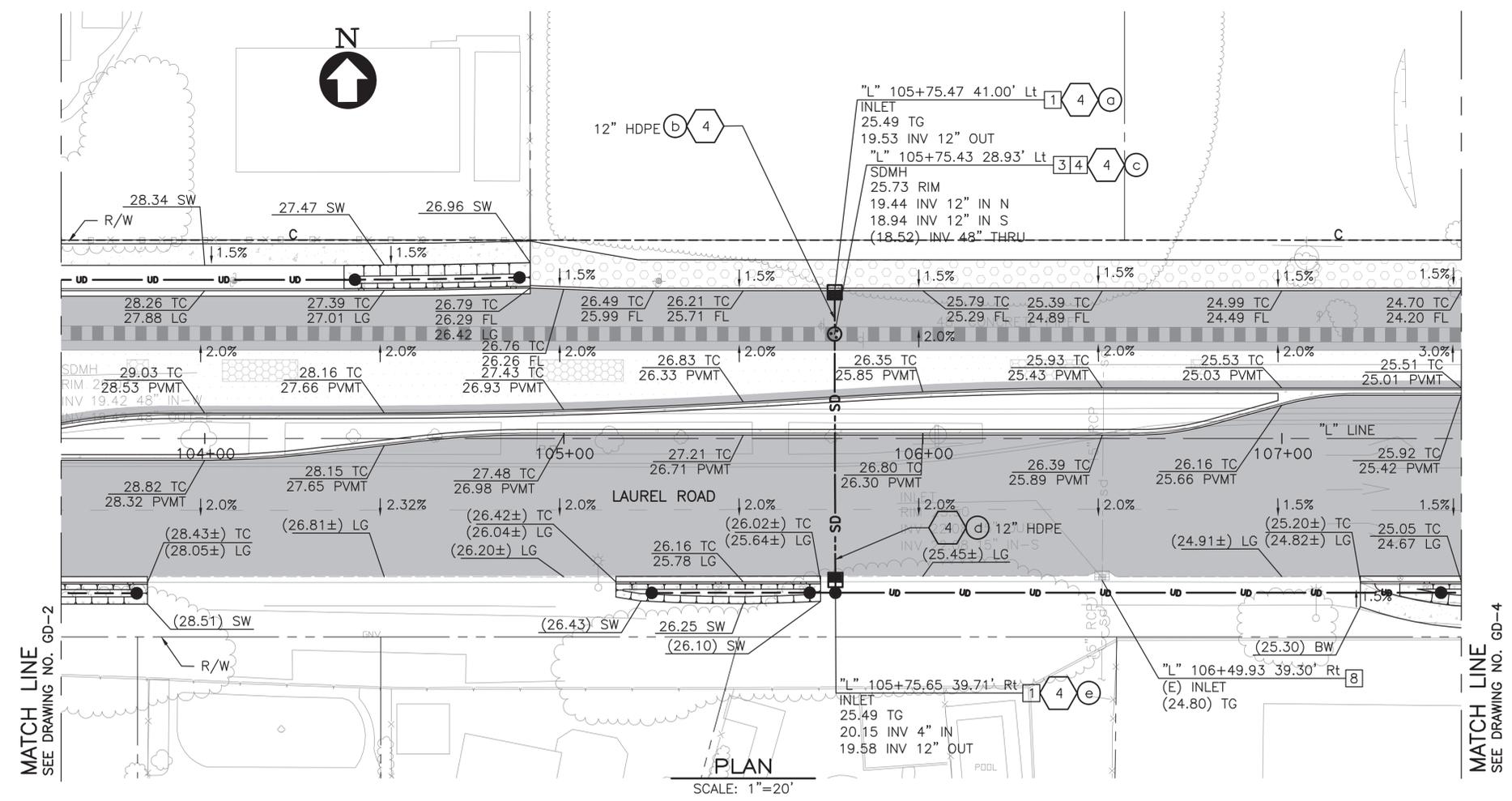
- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS **(4)** CD-2 **(5)** CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS **(3)** CD-4 **(4)** CD-4 **(5)** CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL **(3)** CD-2 **(3)** CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS **(5)** CD-2 **(7)** CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL **(7)** CD-3



MATCH LINE  
SEE DRAWING NO. GD-1

MATCH LINE  
SEE DRAWING NO. GD-3

BKF ENGINEERS, INC. 4670 WILLOW ROAD, SUITE 200, PULSAN, CA 94588  
 TEL: 925-396-7700 FAX: 925-396-7789  
 www.bkfengineers.com



**NOTES:**

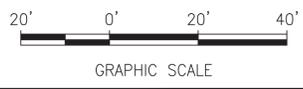
- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
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- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL **1** CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL **4** CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- Exist STORM DRAIN INLET
- Exist STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- PROPOSED 4" UNDERDRAIN LINE
- PROPOSED 4" PERFORATED UNDERDRAIN LINE
- CUT / FILL LINE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED CLEANOUT
- DRAINAGE SYSTEM NUMBER
- DRAINAGE STRUCTURE DESIGNATION
- Exist ELEVATION
- PROPOSED ELEVATION

**ITEMS OF WORK**

- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS **4** CD-2 **5** CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS **3** CD-4 **4** CD-4 **5** CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL **3** CD-2 **3** CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS **5** CD-2 **7** CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL **7** CD-3

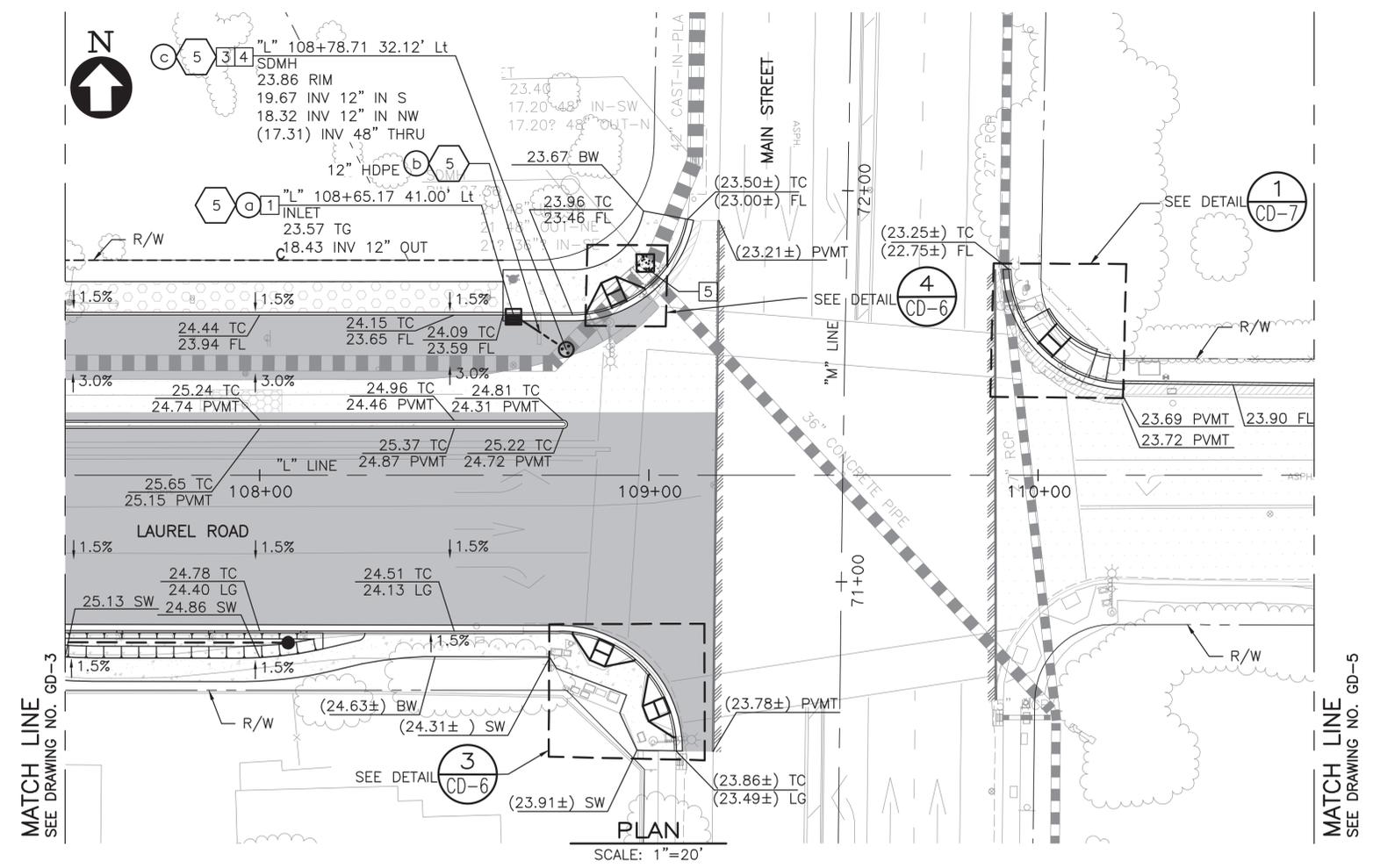


Date	No.	Revisions
01/15/2020	A	DRAFT SUBMITTAL 01/15/20
	B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number:  
**GD-3**  
27 OF 71

BKF ENGINEERS, INC. 4670 WILLOW ROAD, SUITE 200, PULVER, CALIFORNIA 94568  
 TEL: 925-396-7700 FAX: 925-396-7799  
 www.bkfengineers.com



MATCH LINE  
SEE DRAWING NO. GD-3

MATCH LINE  
SEE DRAWING NO. GD-5

SCALE: 1"=20'

**NOTES:**

- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
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- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL **1** CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL **4** CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- sd ——— Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- Exist STORM DRAIN INLET
- Exist STORM DRAIN MANHOLE
- SD ——— PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- UD ——— PROPOSED 4" UNDERDRAIN LINE
- PROPOSED 4" PERFORATED UNDERDRAIN LINE
- C/F ——— CUT / FILL LINE
- Proposed Storm Drain Inlet
- Proposed Storm Drain Manhole
- Proposed Cleanout
- 1 ——— DRAINAGE SYSTEM NUMBER
- g ——— DRAINAGE STRUCTURE DESIGNATION
- (XX.XX) Exist ELEVATION
- XX.XX PROPOSED ELEVATION

**ITEMS OF WORK**

- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS **4** CD-2 **5** CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS **3** CD-4 **4** CD-4 **5** CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL **3** CD-2 **3** CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS **5** CD-2 **7** CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL **7** CD-3



Date	No.	Revisions
01/15/2020	A	DRAFT SUBMITTAL 01/15/20
	B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10

Drawing Number:  
**GD-4**  
**28 OF 71**

BKF ENGINEERS, INC. 4670 WILLOW ROAD, SUITE 200, OAKLEY, CA 94568  
 TEL: 925-396-7700 FAX: 925-396-7799  
 WWW.BKFENGINEERS.COM

No.	Revisions
A	DRAFT SUBMITTAL 01/15/20
B	FINAL SUBMITTAL 03/04/20

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10



MATCH LINE  
SEE DRAWING NO. GD-4

MATCH LINE  
SEE DRAWING NO. GD-6

**PLAN**  
SCALE: 1"=20'

**NOTES:**

- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
- THIS PLAN IS ACCURATE FOR GRADING AND DRAINAGE FACILITIES ONLY.
- CURB AND GUTTER ELEVATIONS ARE SHOWN AT 50' INTERVALS ALONG "L" LINE, UNLESS NOTES OTHERWISE.
- ALL EXISTING ABOVE GROUND UTILITY FEATURES SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED.
- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL **1** CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL **4** CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- sd ———— Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- Exist STORM DRAIN INLET
- Exist STORM DRAIN MANHOLE
- SD** ———— PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- ub** ———— **ub** PROPOSED 4" UNDERDRAIN LINE
- PROPOSED 4" PERFORATED UNDERDRAIN LINE
- C/F** ———— CUT / FILL LINE
- Proposed Storm Drain Inlet
- Proposed Storm Drain Manhole
- Proposed Cleanout
- 1 ———— DRAINAGE SYSTEM NUMBER
- g ———— DRAINAGE STRUCTURE DESIGNATION
- (XX.XX) Exist ELEVATION
- XX.XX PROPOSED ELEVATION

**ITEMS OF WORK**

- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS **4** CD-2 **5** CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS **3** CD-4 **4** CD-4 **5** CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL **3** CD-2 **3** CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS **5** CD-2 **7** CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL **7** CD-3



No.	Date	Revisions
A	01/15/2020	DRAFT SUBMITTAL
B	03/04/20	FINAL SUBMITTAL

Date: 01/15/2020  
Scale: AS NOTED  
Design: CC  
Drawn: AH  
Approved: MC  
Job No: 20176057-10



MATCH LINE  
SEE DRAWING NO. GD-5

PLAN  
SCALE: 1"=20'

**NOTES:**

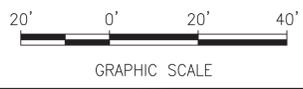
- FOR GENERAL NOTES, SEE GN-1. FOR ABBREVIATIONS, SEE DRAWING T-1.
- FOR GEOMETRY OF CONTROL, SEE PC-1.
- THIS PLAN IS ACCURATE FOR GRADING AND DRAINAGE FACILITIES ONLY.
- CURB AND GUTTER ELEVATIONS ARE SHOWN AT 50' INTERVALS ALONG "L" LINE, UNLESS NOTES OTHERWISE.
- ALL EXISTING ABOVE GROUND UTILITY FEATURES SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED.
- TRENCHING SHALL CONFORM TO CITY OF OAKLEY STORM DRAIN TRENCH DETAILS CD01, SEE DETAIL 1  
CD-2
- STATION AND OFFSET FOR STORM DRAIN INLETS SHALL BE PER DETAIL 4  
CD-3
- CONTRACTOR SHALL VERIFY EXISTING GRADE PRIOR TO GRIND AND OVERLAY OPERATIONS.
- CONTRACTOR SHALL DEPRESS THE GRADE INTO A CONCAVE CROSS-SECTION (1" MIN) AND PLANT NON-IRRIGATED HYDROSEED WITHIN THE SELF-RETAINING AREA LIMITS SHOWN ON THE PLANS.
- PLACE UNDERDRAIN TOWARDS SOUTH SIDE TO CLEAR PROPOSED LIGHT POLE FOUNDATION.
- FOR PROPOSED LIGHT LOCATIONS, SEE STREET LIGHTING PLAN

**LEGEND:**

- sd ——— Exist STORM DRAIN LINE (SEE PLAN FOR SIZE)
- Exist STORM DRAIN INLET
- Exist STORM DRAIN MANHOLE
- SD ——— PROPOSED STORM DRAIN LINE (SEE PLAN FOR SIZE)
- UB ——— PROPOSED 4" UNDERDRAIN LINE
- PROPOSED 4" PERFORATED UNDERDRAIN LINE
- C/F ——— CUT / FILL LINE
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED CLEANOUT
- DRAINAGE SYSTEM NUMBER
- DRAINAGE STRUCTURE DESIGNATION
- (XX.XX) Exist ELEVATION
- XX.XX PROPOSED ELEVATION

**ITEMS OF WORK**

- INSTALL TYPE I CURB INLET AND STORM DRAIN MARKER PER CITY OF OAKLEY STANDARD PLAN SD-08 AND SD-12, SEE DETAILS 4  
CD-2 5  
CD-2
- CONNECT TO EXISTING INLET AND MODIFY TO FIT NEW PIPE.
- INSTALL COUNTY TYPE III MANHOLE, SEE DETAILS 3  
CD-4 4  
CD-4 5  
CD-4
- CONNECT TO EXISTING PIPE
- RECONSTRUCT CONCRETE MANHOLE TOP AND ADJUST MANHOLE TO GRADE, SEE DETAIL 3  
CD-2 3  
CD-4
- INSTALL MODIFIED G2 INLET, SEE DETAILS 5  
CD-2 7  
CD-2
- CONNECT TO EXISTING STRUCTURE
- CAP EXISTING INLET, SEE DETAIL 7  
CD-3



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Date: 07/15/2020	Revisions
Scale: AS NOTED	20200406 ADDENDUM No. 1
Design: CC	
Drawn: AH	
Approved: MC	
Job No: 20176057-10	

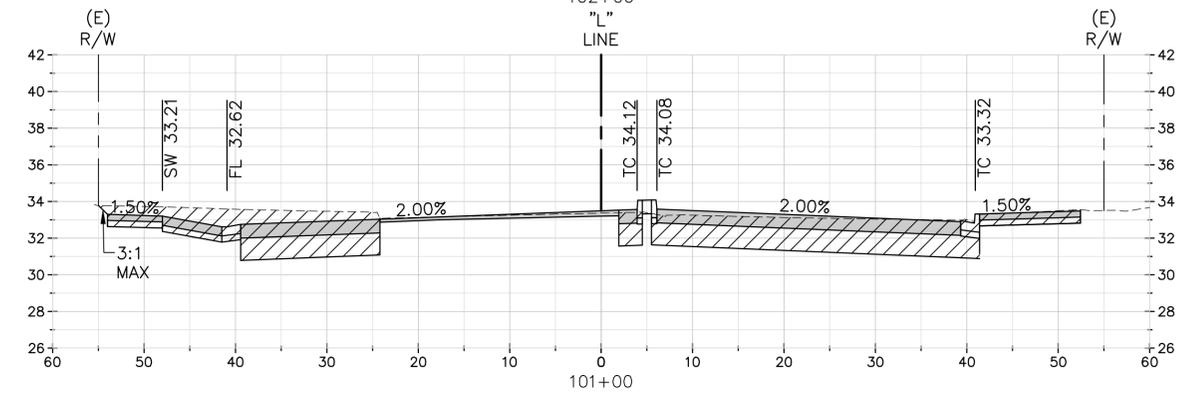
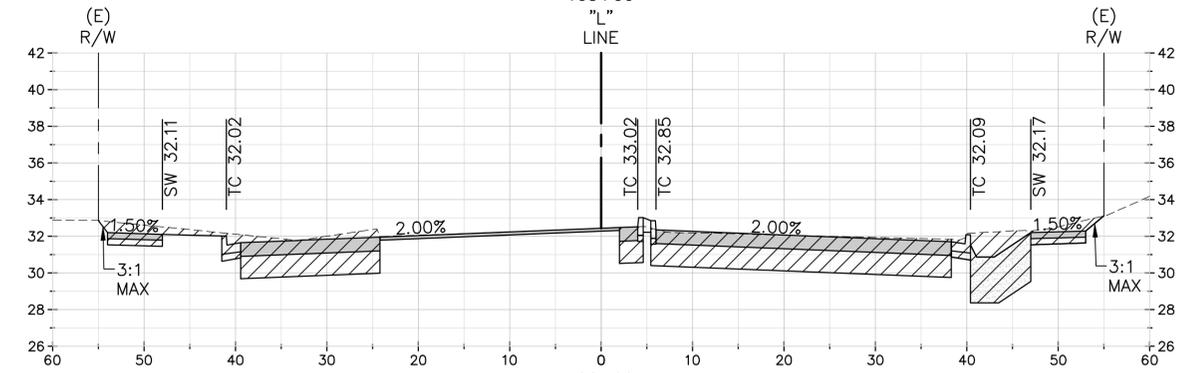
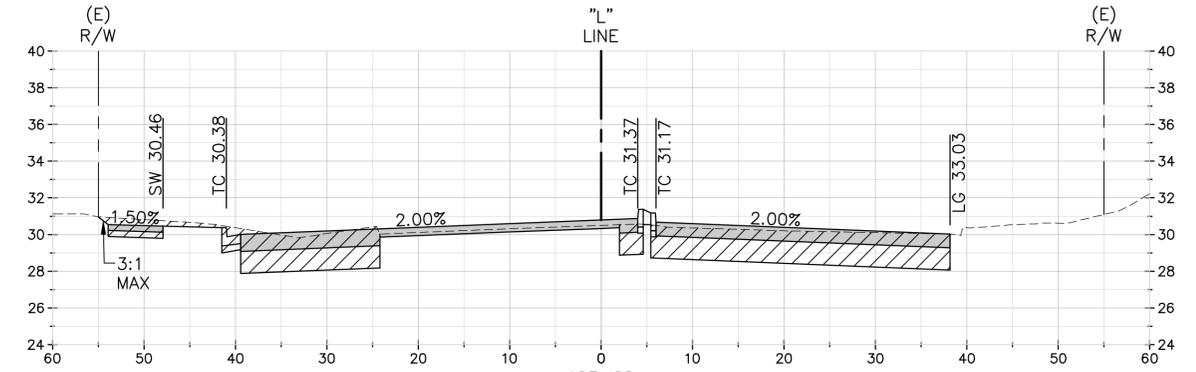
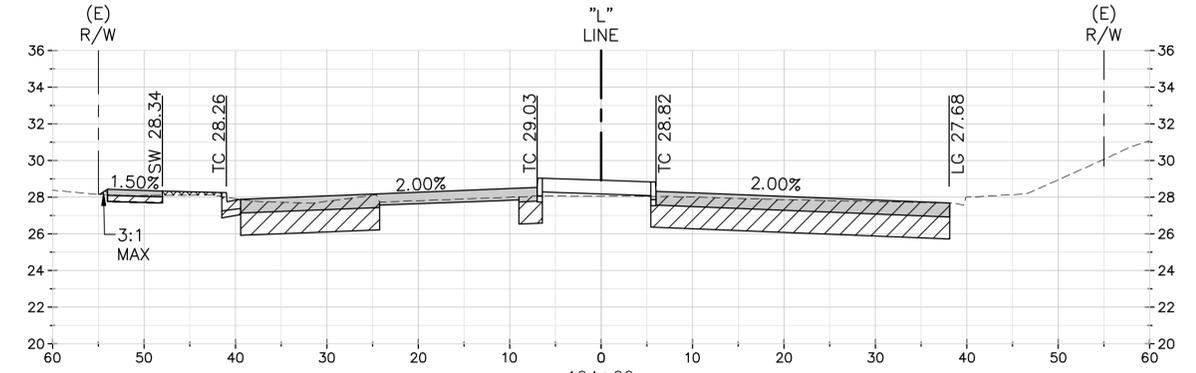
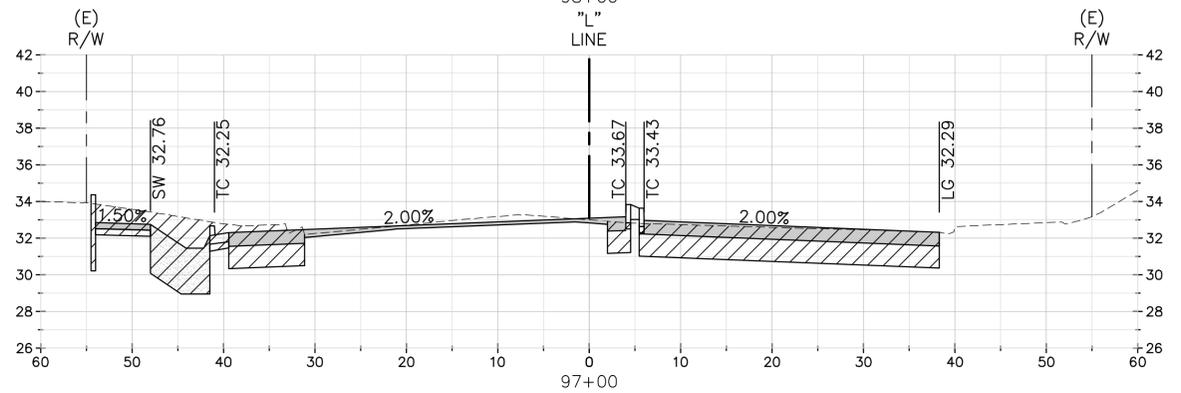
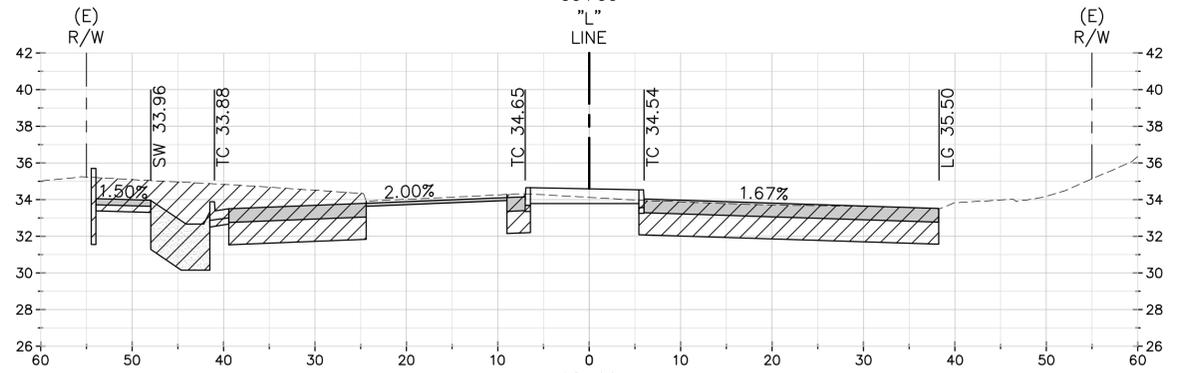
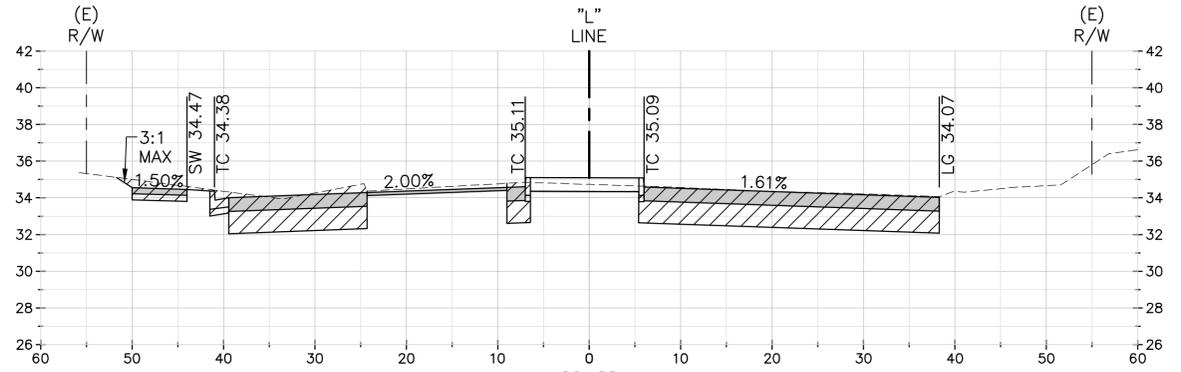
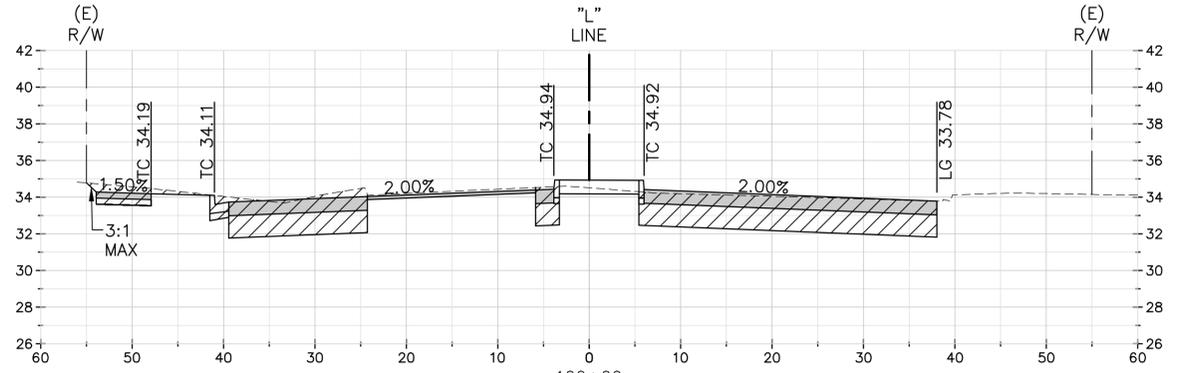
**LEGEND:**

-  EXCAVATION
-  BACKFILL

**NOTES:**

1. FOR IMPROVEMENTS, EXCAVATION AND BACKFILL WITHIN MEDIAN, SEE LANDSCAPE PLAN.
2. MINIMUM 18" EXCAVATION IN LANDSCAPE AREAS, SEE LANDSCAPE PLAN.
3. MINIMUM 36" EXCAVATION IN BIORETENTION AREAS, SEE CD-5.
4. FOR TYPE OF EXCAVATION, SEE DEMOLITION PLAN.
5. CONFIRM LIMITS OF BASE REPAIR (NOT SHOWN IN THESE SECTIONS) WITH CITY ENGINEER PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE COMPLETED PRIOR TO ANY GRINDING AND OVERLAY OPERATIONS.
6. CONTRACTOR SHALL NOTIFY CITY ENGINEER IF SIERRACRETE IS FOUND OUTSIDE THE LIMIT SHOWN ON THESE PLANS. CONTRACTOR SHALL REMOVE SIERRACRETE BELOW (E) C&G TO REMAIN, SEE DETAIL.
7. FOR LIMITS OF GRIND AND OVERLAY, SEE DEMOLITION AND SITE PLAN.

6  
CD-3



4670 WILLOW RD  
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**CIP 208 - LAUREL ROAD WIDENING PROJECT  
FROM MELLOWOOD DRIVE TO MAIN STREET  
CROSS SECTIONS**  
OAKLEY CONTRA COSTA COUNTY CALIFORNIA

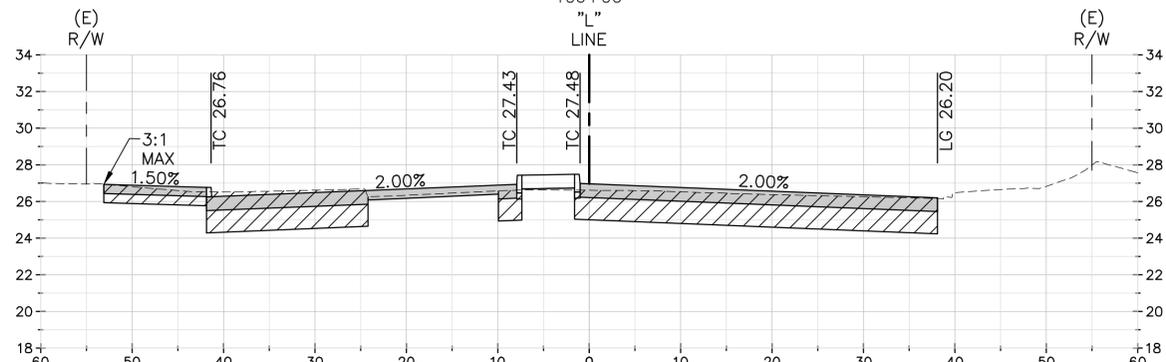
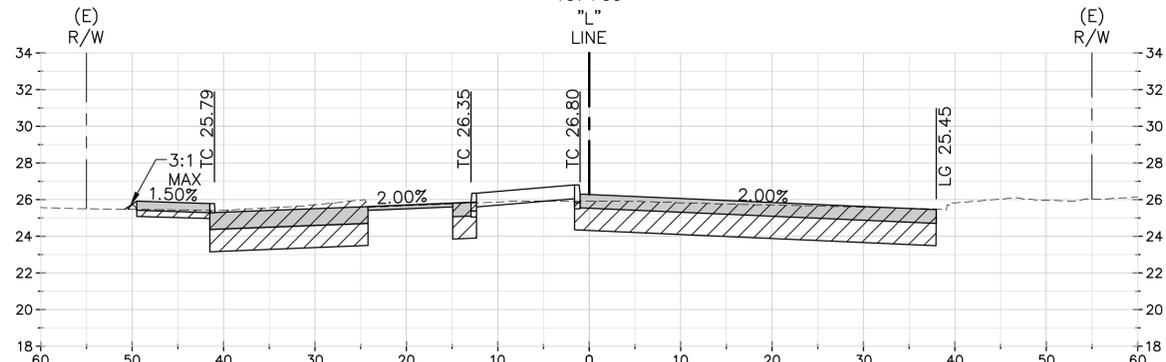
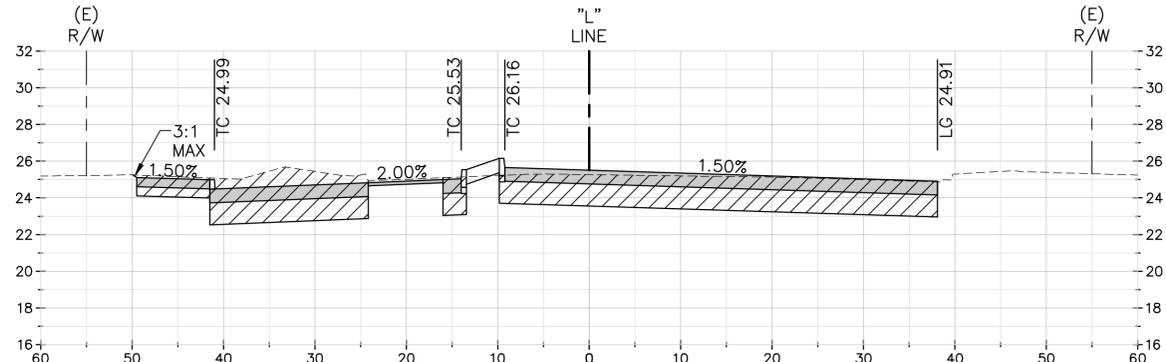
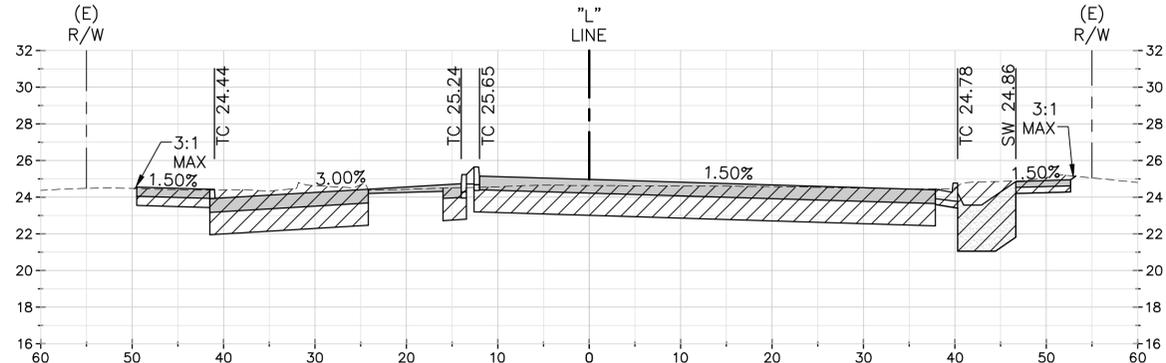
**LEGEND:**

- EXCAVATION
- BACKFILL

**NOTES**

1. FOR IMPROVEMENTS, EXCAVATION AND BACKFILL WITHIN MEDIAN, SEE LANDSCAPE PLAN.
2. MINIMUM 18" EXCAVATION IN LANDSCAPE AREAS, SEE LANDSCAPE PLAN.
3. MINIMUM 36" EXCAVATION IN BIORETENTION AREAS, SEE CD-5.
4. FOR TYPE OF EXCAVATION, SEE DEMOLITION PLAN.
5. CONFIRM LIMITS OF BASE REPAIR (NOT SHOWN IN THESE SECTIONS) WITH CITY ENGINEER PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE PRIOR TO BEGINNING WORK. BASE REPAIRS SHALL BE COMPLETED PRIOR TO ANY GRINDING AND OVERLAY OPERATIONS.
6. CONTRACTOR SHALL NOTIFY CITY ENGINEER IF SIERRACRETE IS FOUND OUTSIDE THE LIMIT SHOWN ON THESE PLANS. CONTRACTOR SHALL REMOVE SIERRACRETE BELOW (E) C&G TO REMAIN, SEE DETAIL
7. FOR LIMITS OF GRIND AND OVERLAY, SEE DEMOLITION AND SITE PLAN.

6  
CD-3



DRAWN BY: NAME, DATE: 07/15/2020, SCALE: AS NOTED, DESIGN: CC, DRAWN: AH, APPROVED: MC, JOB NO: 20176087-10

Date: 07/15/2020	Revisions
Scale: AS NOTED	No. 1
Design: CC	20200406 ADDENDUM No. 1
Drawn: AH	
Approved: MC	
Job No: 20176087-10	

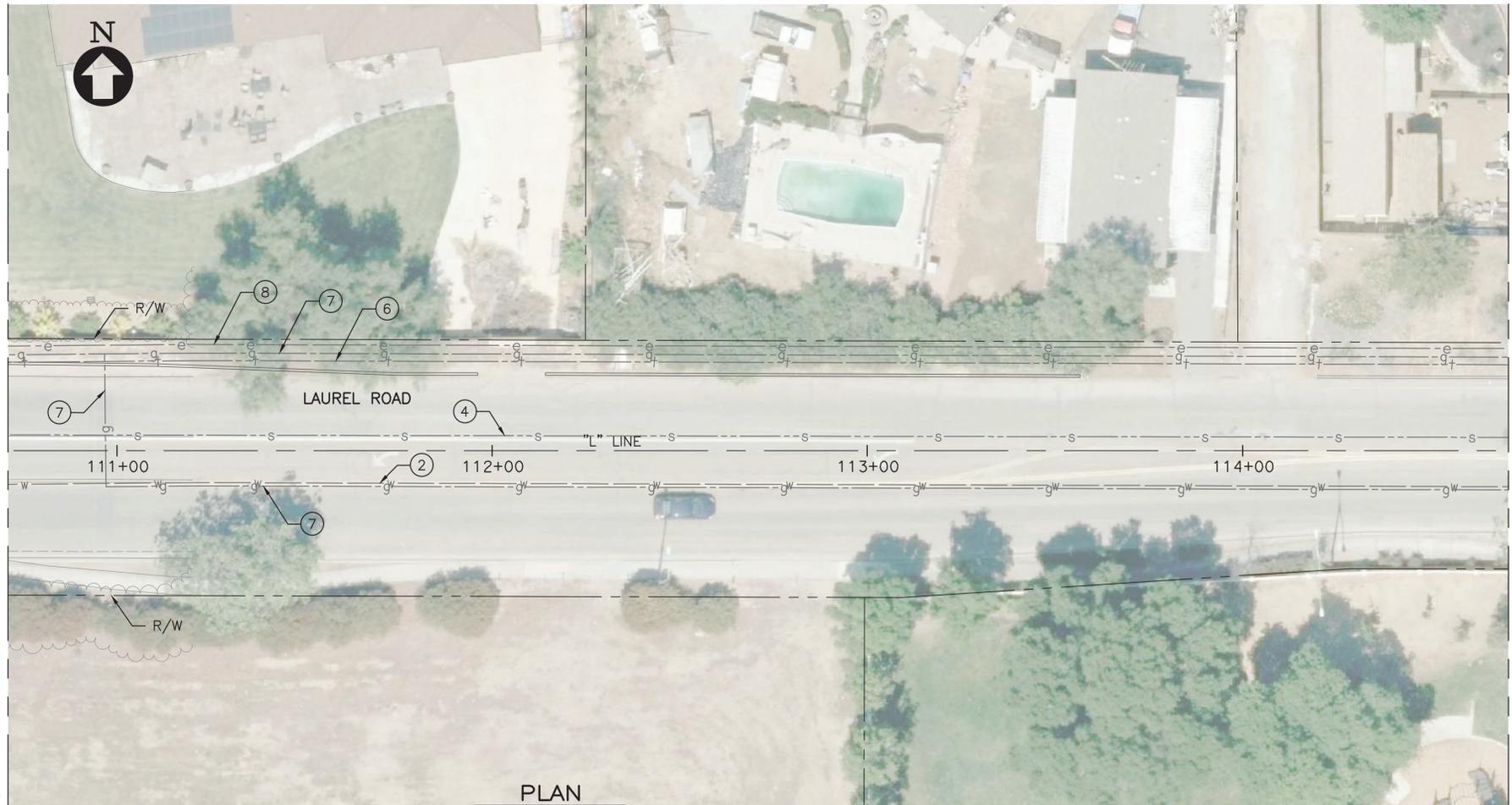
4670 WILLOW RD  
SUITE 200  
PULVER, CA 94568  
925-396-7700  
925-396-7799 (FAX)



**CIP 208 - LAUREL ROAD WIDENING PROJECT**  
**FROM MELLOWOOD DRIVE TO MAIN STREET**  
**COMPOSITE UTILITY REARRANGEMENT PLAN**  
OAKLEY  
CONTRA COSTA COUNTY CALIFORNIA

No.	Date	Revisions
A	01/15/2020	DRAFT SUBMITTAL
B	03/04/20	FINAL SUBMITTAL

Drawing Number:  
**U-5**  
37 OF 71



**PLAN**  
SCALE: 1"=20'

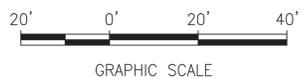
**NOTES:**

1. THIS PLAN ACCURATE FOR UTILITIES ONLY.
2. FOR STORM DRAIN INFORMATION, SEE GRADING AND DRAINAGE PLAN.
3. CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION.
4. ALL AC PIPE REMOVED BY CONTRACTOR SHALL BE DISPOSED OF IN ACCORDANCE WITH CALIFORNIA REGULATIONS.
5. CONTRACTOR SHALL CONFIRM WITH UTILITY OWNER THAT UTILITY HAS BEEN ABANDONED BEFORE REMOVING OR MODIFYING ANY ABANDONED UTILITY.
6. FOR ELECTRICAL WORK, SEE ELECTRICAL PLAN.
7. FOR DRAINAGE WORK, SEE DRAINAGE AND DRAINAGE PLAN.
8. CONTRACTOR SHALL LOWER UTILITY BOX OR MANHOLE BELOW THE GRINDING PLANE PRIOR TO GRINDING PAVEMENT. CONTRACTOR SHALL RAISE UTILITY BOX OR MANHOLE TO FINISH GRADE AFTER PAVEMENT OVERLAY IS COMPLETED.
9. EXACT LENGTH OF SLURRY CAP TO BE COORDINATED IN THE FIELD WITH CITY ENGINEER.

**ITEMS OF WORK:**

- ① INSTALL NEW GUY WIRE (WORK BY OTHERS)
- ② PROTECT IN PLACE WATER LINE
- ③ ADJUST TO GRADE WATER VALVE <sup>3</sup> CD-2
- ④ PROTECT IN PLACE SEWER LINE
- ⑤ ADJUST TO GRADE SEWER MANHOLE <sup>3</sup> CD-2
- ⑥ PROTECT IN PLACE TELECOM LINE
- ⑦ PROTECT IN PLACE GAS LINE
- ⑧ PROTECT IN PLACE ELECTRIC LINE
- ⑨ ADJUST TO GRADE UTILITY BOX
- ⑩ PROTECT IN PLACE FIRE HYDRANT
- ⑪ PROTECT IN PLACE WATER VALVE
- ⑫ PROTECT IN PLACE GAS VALVE
- ⑬ PROTECT IN PLACE JOINT POLE
- ⑭ PROTECT IN PLACE UTILITY BOX
- ⑮ PROTECT IN PLACE SANITARY MANHOLE
- ⑯ REPLACE UTILITY BOX WITH TRAFFIC RATED BOX. PROTECT IN PLACE EXISTING CONDUITS.
- ⑰ INSTALL 80 LF SLURRY CAP OVER GAS LINE, SEE NOTE 9. SEE DETAIL <sup>6</sup> CD-4
- ⑱ REMOVE EXISTING 5/8" WATER METER AND INSTALL NEW 1" WATER METER IN EXISTING WATER METER BOX PER DWD 8
- ⑲ RECONSTRUCT CALTRANS TYPE D ALTERNATIVE No. 1 SURVEY MONUMENT, SEE DETAIL <sup>8</sup> CD-2
- ⑳ ADJUST TO GRADE (E) SURVEY MONUMENT COVER <sup>3</sup> CD-2

LEGEND:		EXISTING	PROPOSED
-g-g-		Exist GAS LINE	→ PROPOSED GUY WIRE (WORK BY OTHERS)
-(oh)-e-		Exist ELEC OH LINE	◻ WM PROPOSED 1" WATER METER
-(oh)-tv-(oh)		Exist CATV OH LINE	
-(oh)-t-		Exist TELE OH LINE	
-s-s-		Exist SANITARY SEWER LINE	
-e-e-		Exist ELEC LINE	
-w-w-		Exist WATER LINE	
-t-t-		Exist TELECOM LINE	
	⊙	Exist SSMH	
	⊙	Exist WATER PIPE	
	⊙	Exist WATER VALVE	
	⊙	Exist WATER METER	
	⊙	Exist ETS	
	⊙	Exist POLE	
	⊙	Exist GUY WIRE	



DATE PLOTTED: 01/15/2020 10:00 AM  
 PLOT FILE: C:\Users\james\OneDrive\Documents\2020\20200115\U-5.dwg  
 PLOT SCALE: 1"=20'  
 PLOT SIZE: 11.00 x 17.00

