



REPORT TO CITY COUNCIL

DATE: MAY 14, 2014

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL

FROM: GREG RAMIREZ, CITY MANAGER 

BY: RAMIRO ADEVA, PUBLIC WORKS DIRECTOR/CITY ENGINEER 

SUBJECT: CONDUCT A PUBLIC HEARING AND CONSIDER THE APPROVAL OF RESOLUTION NO. 14-1747, ADOPTING THE FINAL MITIGATED NEGATIVE DECLARATION (MND) REPORT AND MITIGATION MONITORING AND REPORTING PROGRAM (MMRP), AND RESOLUTION NO. 14-1748, APPROVING THE DESIGN AND FINAL PROJECT AREA LIMITS FOR THE KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT

This report seeks City Council authorization to conduct a public hearing and consider the approval of Resolution No. 14-1747, adopting the final Mitigated Negative Declaration (MND) and the Mitigation Monitoring and Reporting Program (MMRP), and Resolution No. 14-1748, approving the design and final alignment and project area limits for the Kanan Road and Agoura Road Roundabout Project. The adoption of the MND and MMRP provides final project area approval and mitigation measures to be included as part of the construction phase of the project.

The Agoura Village Specific Plan (AVSP) was adopted by the City Council in 2008, which included a proposed roundabout at the intersection of Kanan Road and Agoura Road to accommodate ultimate development of the area. However, since adoption of the AVSP in 2008, the area has experienced little development. For the immediate future, as part of the Agoura Road Widening Project, the Kanan Road and Agoura Road intersection is planned as a standard signalized intersection. East of the intersection, Agoura Road will remain a two-lane roadway. West of the intersection, the roadway will be widened to four lanes. In October 2012, the City entered into an Agreement with Kimley-Horn and Associates (KHA) to provide final design plans and specifications for the Roundabout project construction. KHA is also the design consultant on the Agoura Road Widening Project. By having KHA on both projects, this allowed the City to ensure a smooth transition from the interim and ultimate intersection improvements, to make certain the design details of the Agoura Road Widening Project were in line with the Roundabout Project.

The Kanan Road and Agoura Road Roundabout Project area limits have been set, which includes Agoura Road, approximately 800 feet west of and 600 feet east of Kanan Road, and Kanan Road, approximately 500 feet north and south of intersection. The proposed Roundabout will have two circulating lanes and two approach lanes from

east, west and south direction. The north leg, moving southbound on Kanan toward the Roundabout, will have three approach lanes, which includes a right-turn bypass lane onto Agoura Road. The Roundabout will accommodate pedestrian crossing and sidewalks, with the pedestrian crosswalks designed with decorative paving, along the exterior edges of the roundabout. Separate entrances for cyclists are part of the project, which would have cyclists sharing the sidewalks with pedestrians before entering and exiting the roundabout area and rejoining the bike lane. The project improvements of the Roundabout project will also include landscaped and cobblestone-paved splitter islands; landscaped center island with boulders, oak trees and low exterior stone wall with interior perimeter rail fencing; and City of Agoura Hills entry monument. A Design Plan Set has been submitted to Staff for final review and completion.

The Kanan Road and Agoura Road Roundabout Project is included as part of the Los Angeles County Metropolitan Transportation Authority's (Metro) Long Range Transportation Plan (LRTP), which was approved by the Metro Board of Directors on October 22, 2009, and is guaranteed funding as part of Metro's priority list for projects funded within the first ten years by Measure R.

Approval of the MND and MMRP will provide the project with final approval of the project area and environmental mitigation measures to be included as part of project construction. A Draft Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for this project, in compliance with the California Environmental Quality Act (CEQA). The MND concluded that, although potentially significant impacts to aesthetics, biological resources, cultural resources, geology and soils, and noise materials may occur, these impacts would be reduced to a level of less than significant with incorporation of the mitigation measures outlined in the MND. Air quality impacts were found to be less than significant; however the MND lists standard dust minimizing measures to be implemented during construction, as recommended by the South Coast Air Quality Management District (SCAQMD).

The Draft IS/MND was circulated for public review from February 20, 2014, to March 24, 2014. The Notice of Availability and Notice of Intent to Adopt the MND (NOA/NOI) was published in the Acorn newspaper on April 17, 2014, and posted at City Hall, the Agoura Hills Library, and at the City Recreation Center, as well as on the City's website. The NOA/NOI was also mailed to public and regulatory agencies and interest groups that typically receive CEQA document notices. A hard copy of the IS/MND was made available for public review at the Planning Counter at City Hall and at the Agoura Hills Library, and the document was posted on the City's website.

Comments received during the public review period were addressed in writing as part of the Response to Comments section of the IS/MND (refer to page 72 of the Final MND). The Final MND (Attachment D) includes the Responses to Comments, and any changes made to the MND text to address the public comments, as well as the Mitigation Monitoring and Reporting Program (refer to the back of the Appendices), which outlines when each mitigation measure will be implemented and what entity is

responsible for ensuring it is implemented. Changes made to the MND text, in response to public comments, were primarily for the purpose of clarification or further amplification of previously identified impacts and mitigation measures. Additionally, Mitigation Measure BIO-1 was amended to also address potential impacts from the direct loss of bat species during construction, although the IS/MND indicates that there are not expected to be any bats inhabiting or reproducing in the project area. However, no new significant impacts were identified as a result of the public comments.

On May 5, 2014, about six weeks after the close of the public comment period, the City received another comment letter from the County of Los Angeles Fire Department. The letter further lists standard measures of the Fire Department's Land Development Unit that the City must comply with, which the City is able to do. The Forestry Division indicates that potential impacts to natural resources, such as vegetation; erosion control, and cultural resources, among other things, needs to be addressed in the IS/MND. However, in the original letter dated March 20, 2014, this Division indicated that, "the areas germane to the statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division, have been addressed." No changes occurred to the IS/MND between receipt of the first and second letters. The IS/MND adequately addressed all necessary environmental issue areas, including those outlined by the Fire Department. No further information is required. A copy of this comment letter is included as Attachment C to this staff report.

A copy of the Final IS/MND has been posted on the City's website. A notice of this City Council hearing to consider adoption of the Final IS/MND and the availability of the Final IS/MND has been published in the Acorn and sent to the entities on the CEQA document mailing list. All persons and entities that provided comments on the Draft IS/MND, have been provided with a notice of the public hearing and a copy of the Responses to Comments.

Attachment A is City Council Resolution No. 14-1747 adopting the Final IS/MND for the Kanan Road and Agoura Road Roundabout Project; making environmental findings pursuant to the CEQA; and adopting a Mitigation Monitoring and Reporting Program (MMRP).

According to the CEQA Guidelines (§15074), the decision-making body of the Lead Agency (City Council) shall consider the proposed IS/MND, together with any comments received during the public review process. The City Council shall adopt the proposed IS/MND only if it finds on the basis of the whole record before it, that there is no substantial evidence that the project will have a significant effect on the environment, and that the IS/MND reflects the City Council's independent judgment and analysis.

Attachment B is City Council Resolution No. 14-1748, approving the Design Plans and Project Area Limits for the Kanan Road and Agoura Road Roundabout Project; including the MMRP as part of the final plans and specification. Also included is Exhibit A, which is a copy of the design plans.

The proposed Resolution No. 14-1747 and Resolution No. 14-1748 have been reviewed by the City Attorney and approved as to form.

RECOMMENDATION

City Staff recommends the City Council:

1. Conduct a public hearing to consider the adoption of Resolution No. 14-1747 and Resolution No. 14-1748.
2. Adopt Resolution No. 14-1747, adopting the Final Mitigated Negative Declaration (MND) Report and Mitigation Monitoring and Reporting Program (MMRP) for the Kanan Road and Agoura Road Roundabout Project, and making the required environmental findings pursuant to the California Environmental Quality Act (CEQA).
3. Adopt Resolution No. 14-1748, approving the Design Plans and Final Project Area Limits for the Kanan Road and Agoura Road Roundabout Project.

Attachment: Attachment A – Resolution No. 14-1747
Attachment B – Resolution No. 14-1748, with Exhibit A
Attachment C – Comments from County of Los Angeles, Fire Department, Forestry Division
Attachment D – Final MND

ATTACHMENT A

Resolution No. 14-1747

RESOLUTION NO. 14-1747

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF AGOURA HILLS, CALIFORNIA, ADOPTING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT AND MAKING THE REQUIRED ENVIRONMENTAL FINDINGS PURSUANT TO CEQA

THE CITY COUNCIL OF THE CITY OF AGOURA HILLS HEREBY FINDS, RESOLVES, AND ORDERS AS FOLLOWS:

WHEREAS, a public hearing was duly held on May 14, 2014, in the Council Chambers of City Hall, 30001 Ladyface Court, Agoura Hills, California. Notice of the time, date, place and purpose of the public hearing was duly given; and

WHEREAS, evidence, both written and oral, was duly presented to and considered by the City Council of the City of Agoura Hills at the aforesaid public hearing; and

WHEREAS, after close of the public hearing, the City Council considered all public comments received both before and during the public hearing, the presentation by City staff, the staff report, and all other pertinent documents and associated actions regarding the proposed Final Initial Study/Mitigated Negative Declaration; and

WHEREAS, the City Council hereby makes the following environmental findings and determinations in connection with the Kanan Road and Agoura Road Roundabout Project Final Initial Study/Mitigated Negative Declaration:

- A. Pursuant to the California Environmental Quality Act ("CEQA") and the City's local CEQA Guidelines, City staff prepared an Initial Study of the potential environmental effects of the Kanan Road and Agoura Road Roundabout Project as described in the Initial Study (the "Project"). Based upon the findings contained in that Initial Study, City staff, acting as the Lead Agency, determined that all identified potentially significant environmental impacts could be reduced to a level of less than significant with the incorporation of mitigation measures so that the project would not have a significant effect on the environment, and therefore a Mitigated Negative Declaration was prepared; and
- B. Thereafter, City staff provided public notice of the public comment period and of the intent to adopt the Initial Study/Mitigated Negative Declaration as required by law. The public comment period commenced on February 20, 2014, and ended on March 24, 2014. Copies of the documents have been available for public review and inspection at the offices of the Department of Planning and Community Development, located at City Hall, 30001 Ladyface Court, California, 91301; and

- C. The City Council has independently reviewed the Initial Study/Mitigated Negative Declaration and all comments received regarding the document prior to and at the May 14, 2014, public hearing, and based on the whole record before it, finds that: (1) the Initial Study/Mitigated Negative Declaration was prepared in compliance with CEQA and the City's local CEQA Guidelines; (2) that City staff has correctly concluded that there is no substantial evidence that the Project will have a significant effect on the environment; and (3) the Initial Study/Mitigated Negative Declaration reflects the independent judgment and analysis of the City Council; and

WHEREAS, the custodian of records for the Final Initial Study/Mitigated Negative Declaration and all materials that constitute the record of proceedings upon which the City Council's decision is based is the City Clerk of the City of Agoura Hills, and those documents are available for public review in the Office of the City clerk located at 30001 Ladyface Court, Agoura Hills, California, 91301.

NOW, THEREFORE, BE IT RESOLVED, based on the findings and conclusion set forth above, that the City Council of the City of Agoura Hills hereby adopts the Kanan Road and Agoura Road Roundabout Project Final Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program for the Final Initial Study/Mitigated Negative Declaration.

PASSED, APPROVED, and ADOPTED this 14th day of May, 2014, by the following vote to wit:

AYES: (0)
NOES: (0)
ABSENT: (0)
ABSTAIN: (0)

William D. Koehler, Mayor

ATTEST:

Kimberly M. Rodrigues, City Clerk

ATTACHMENT B

Resolution No. 14-1748, with Exhibit A

RESOLUTION NO. 14-1748

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF AGOURA HILLS, CALIFORNIA, APPROVING THE DESIGN PLANS AND FINAL PROJECT AREA LIMITS FOR THE KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT

THE CITY COUNCIL OF THE CITY OF AGOURA HILLS HEREBY FINDS, RESOLVES, AND ORDERS AS FOLLOWS:

WHEREAS, on October 10, 2012, the City Council awarded a contract for final design of the Kanan Road and Agoura Road Roundabout Project ("Project") to Kimley-Horn and Associates; and

WHEREAS, on May 14, 2014, the City Council held a duly noticed public hearing on the Final Initial Study/Mitigated Negative Declaration for the Project, at which time all persons had the opportunity to present oral and written evidence on the Final Initial Study/Mitigated Negative Declaration for the Project. Notice of the time, date, place, and purpose of the public hearing was duly given;

WHEREAS, on May 14, 2014, following consideration of information received at the public hearing before the City Council and due consideration of the Project, the City Council adopted Resolution No. 14-1747, A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF AGOURA HILLS, CALIFORNIA, ADOPTING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT AND MAKING THE REQUIRED ENVIRONMENTAL FINDINGS PURSUANT TO CEQA; and

WHEREAS, the Project area limits have been finalized, which includes final Agoura Road, approximately 800 feet west of and 600 feet east of intersection, and Kanan Road, approximately 500 feet north and south of intersection. The proposed Roundabout will have two circulating lanes and two approach lanes from east, west and south direction. The north leg, moving southbound on Kanan toward the Roundabout, will have three approach lanes, which includes a right-turn bypass lane onto Agoura Road. The Roundabout will accommodate pedestrian crossing and sidewalks, with the pedestrian crosswalks designed with decorative paving, along the exterior edges of the roundabout. Separate entrances for cyclists are part of the project, which would have cyclists sharing the sidewalks with pedestrians before entering and exiting the roundabout area and rejoining the bike lane. The project improvements of the Roundabout project will also include landscaped and cobblestone-paved splitter islands; landscaped center island with boulders, oak trees and low exterior stone wall with interior perimeter rail fencing; and City of Agoura Hills entry monument; and

WHEREAS, the alignment component and the project area limits component of the design plans for the Kanan Road and Agoura Road Roundabout Project are final; and

WHEREAS, the custodian of records for the design plans and all materials that constitute the record of proceedings upon which the City Council's decision is based is the City Clerk of the City of Agoura Hills, and those documents are available for public review in the Office of the City Clerk located at 30001 Ladyface Court, Agoura Hills, California, 91301.

NOW, THEREFORE, BE IT RESOLVED, based on the findings and conclusion set forth above, that the City Council of the City of Agoura Hills hereby approves the design plans and final project area limits for the Kanan Road and Agoura Road Project, as shown on Exhibit "A", attached hereto and incorporated herein as though set forth in full.

PASSED, APPROVED, and ADOPTED this 14th day of May, 2014, by the following vote to wit:

AYES: (0)
NOES: (0)
ABSENT: (0)
ABSTAIN: (0)

William D. Koehler, Mayor

ATTEST:

Kimberly M. Rodrigues, City Clerk

EXHIBIT "A"

DESIGN PLANS

KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT

CITY OF AGOURA HILLS

PLANS FOR

KANAN ROAD AND AGOURA ROAD ROUNDABOUT

PUBLIC UTILITIES / SERVICES

- WATER:** LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES ROAD
CALABASCA, CA 91302
(818) 890-4110
- ELECTRICAL:** SOUTHERN CALIFORNIA EDISON
3508 FOOTHILL DRIVE
THOUSAND OAKS, CA 91361
(805) 494-7016
- TELEPHONE:** AT&T/BSC
1501 RAMBER STREET, #115
VAN NUYS, CA 91406
(818) 373-8888
- GAS:** SOUTHERN CALIFORNIA GAS
8400 CANONIA AVENUE
CHATSWORTH, CA 91313
(818) 701-3324
- SEWER:** LA COUNTY, DEPT. OF PUBLIC WORKS
SEWER MAINTENANCE DIVISION
1000 S. FREMONT AVENUE, BLDG. A8 EAST
ALHAMBRA, CA 91803
(626) 300-3306
- STORM DRAINS:** LA COUNTY, DEPT. OF PUBLIC WORKS
STORM DRAIN MAINTENANCE DIVISION
1000 S. FREMONT AVENUE, BLDG. A8 EAST
ALHAMBRA, CA 91803
(626) 458-4148
- TRAFFIC SIGNALS:** LA COUNTY, DEPT. OF PUBLIC WORKS
TRAFFIC SIGNAL MAINTENANCE DIVISION
PETER CROZ
1325 ALCAZAR STREET
LOS ANGELES, CA 90033
(626) 458-1704
- CABLE:** TIME WARNER CABLE
2323 TELLER ROAD
NEWBURY PARK, CA 91320
(805) 375-9213
- CABLE:** CHARTER COMMUNICATIONS
3806 CROSSCREEK ROAD
MALIBU, CA 90265
(310) 458-9019
- CABLETV:** CALTRANS SIGNAL AND ELECTRICAL
5650 RESEDA BOULEVARD
TARZANA, CA 91356
(805) 388-1436

BENCH MARK

BM# Y 10004
RDM# TAG IN W CB 800MM N/O BCR 0 IN
COR# KANAN RD & AGOURA RD 19.5M N & 13M W/O C/L IN
ELEM# 877.389 HAND AB 04/04

BASIS OF BEARINGS

THE BASIS OF BEARINGS SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE V, NAD83 USING NGS PUBLISHED COORDINATE VALUES FOR CONTIGUOUS GPS STATION "TOST" (2004.0 EPOCH). ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES DIVIDE GRID DISTANCE BY 0.9999406374.

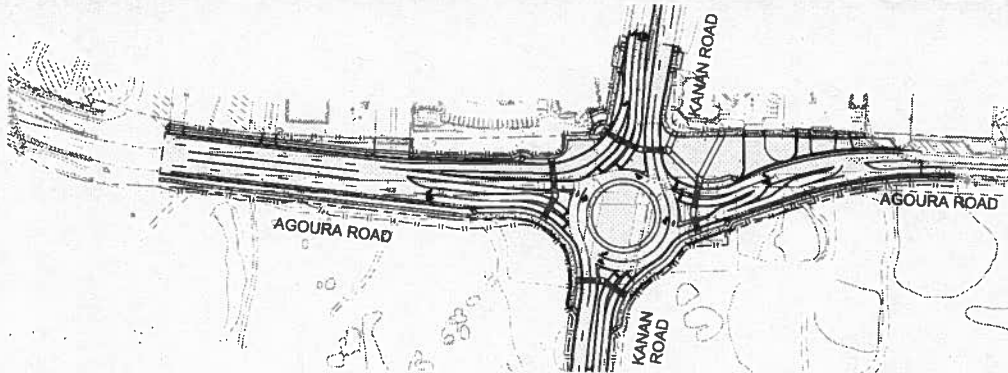
RIGHT-OF-WAY

THE EXISTING RIGHT OF WAY AS SHOWN ON THE PLANS IS BASED UPON INFORMATION AS PROVIDED BY AEDM, SEPTEMBER 2012. ALL RIGHT OF WAY LINES SHOWN ARE ASSUMED TO BE APPROXIMATE AND SHOULD BE FIELD VERIFIED. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT GUARANTEE ITS ACCURACY.



CALL 811
AT LEAST TWO DAYS
BEFORE YOU DIG

Know what's below.
Call before you dig.
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



LOCATION MAP

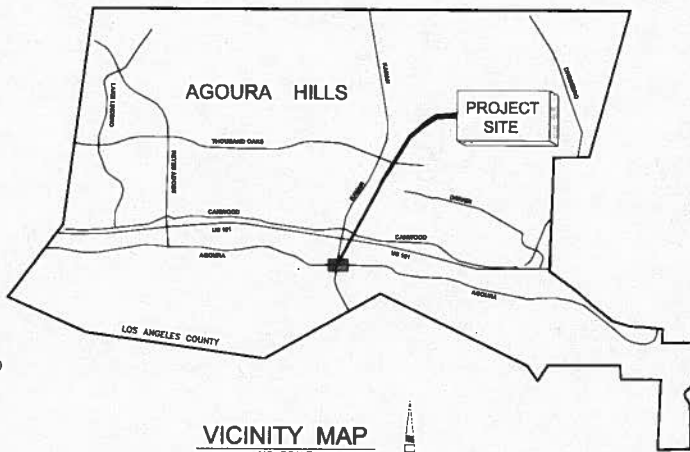
SCALE: 1"=100'

LEGEND

	REMOVE EXIST. AC AND BASE TO ACCOMMODATE THE PROPOSED IMPROVEMENTS
	CONCRETE S/W, CURB, GUTTER, CURB RAMP, DRIVEWAY
	TRUCK APRON, 6" STAMPED COLORED CONCRETE OVER 21" CLASS II AB
	SAWCUT/MATCH LINE
	LIMITS OF GRADING
	EXIST. R/W
	PROP. R/W

ABBREVIATIONS

AB	AGGREGATE BASE	GV	GAS VALVE
AC	ASPHALT CONCRETE	ICV	IRRIGATION CONTROL VALVE
BC	BEGINNING OF CURVE	LT	LEFT
BCR	BEFORE CURB RETURN	MANH	MANHOLE
BD	BY OTHERS	N	NORTHWARD
BOC	BOTTOM OF CURB	PC	PULL BOX
C&G	CURB AND GUTTER	PCFC	PORTLAND CEMENT CONCRETE / POINT OF COMPLEX CURVATURE
CL	COVER LINE	PRC	POINT OF REVERSE CURVATURE
CLF	CHAIN LINK FENCE	PROP	PROPOSED
COMM	COMMUNICATIONS FACILITY	R/C	RIGHT OF CURVE
CP	CURB AND GUTTER	R/W	RIGHT OF WAY
DRWY	DRIVEWAY	SD	STORM DRAIN
E	EAST	SL	STREET LIGHT
EC	END OF CURVE	SPPC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (FREEDOM CURRENT EDITION)
EDR	END CURB RETURN	SSM	SANITARY SEWER MANHOLE
EG	EXISTING GRADING	S/W	SEWER
ELEC	ELECTRIC EQUIPMENT	TC	TOP OF CURB
EP	EDGE OF PAVEMENT	TEL	TELEPHONE/COMMUNICATIONS UTILITY
FC	FIRE DEPT CONNECTION	TFF	TRAFFIC SIGNAL AND EQUIPMENT
FG	FINISHED GRADE	TS	TOP OF FOOTING
FI	FIRE HYDRANT	UP	UTILITY POLE
FS	FINISHED SURFACE	WM	WATER METER
FL	FLOWLINE	WV	WATER VALVE
GB	GRADE BREAK		
GUY	GUY WIRE		



VICINITY MAP

NO SCALE

SHEET INDEX

DWG. NO.	SHT. NO.	SHEET TITLE
G-1	1	TITLE SHEET
G-2	2	NOTES AND CROSS SECTIONS
C-1	3	LAYOUT PLAN KANAN ROAD STA. 16+50.00 TO STA. 20+17.42 AGOURA ROAD STA. 16+04.05 TO STA. 16+05.00
C-2	4	LAYOUT PLAN AGOURA ROAD STA. 8+50.00 TO STA. 16+04.05
C-3	5	LAYOUT PLAN AGOURA ROAD STA. 19+65.00 TO STA. 25+00.00
C-4	6	LAYOUT PLAN KANAN ROAD STA. 13+00.00 TO STA. 16+50.00 KANAN ROAD STA. 20+17.42 TO STA. 24+00.00
C-5	7	GRADING AND PAVEMENT ELEVATION PLAN AGOURA ROAD STA. 16+04.05 TO STA. 19+65.00
C-6	8	GRADING AND PAVEMENT ELEVATION PLAN AGOURA ROAD STA. 8+50.00 TO STA. 25+00.00
C-7	9	GRADING AND PAVEMENT ELEVATION PLAN AGOURA ROAD STA. 19+65.00 TO STA. 25+00.00
C-8	10	GRADING AND PAVEMENT ELEVATION PLAN KANAN ROAD STA. 13+00.00 TO STA. 16+50.00 KANAN ROAD STA. 20+17.42 TO STA. 24+00.00
C-9	11	ROADWAY CENTER LINE PROFILES AGOURA ROAD STA. 8+50.00 TO 24+50.00
C-10	12	ROADWAY CENTER LINE PROFILES KANAN ROAD STA. 12+50.00 TO 22+00.00 TRUCK APRON BOTTOM OF CURB PROFILE
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SL-1	20	STREET LIGHTING PLAN
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LC-3		
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LD-3		

PREPARED BY:



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Tel (818) 227-2790 Fax (818) 808-0685

SRIRAM CHANDRASEKAR E.C.E. C73629 DATE



REVIEWED BY:

CHARMAINE YAMABO ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



KANAN ROAD AND AGOURA ROAD ROUNDABOUT

TITLE SHEET G-1

DRAWN BY: RP/SC

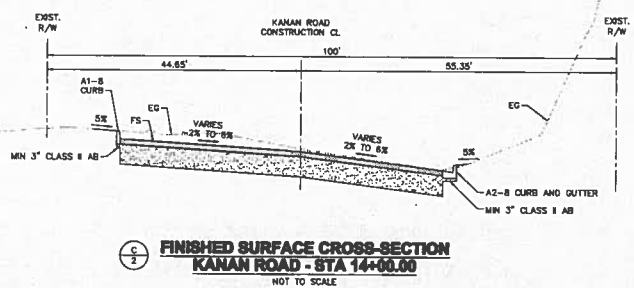
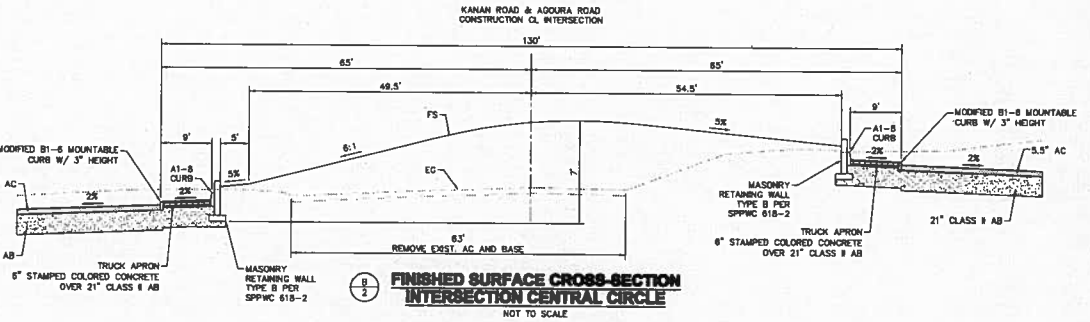
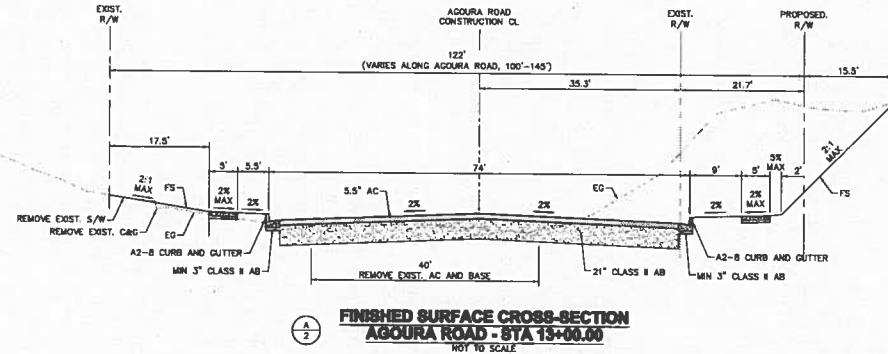
CHECKED BY: PH/SM

DRAWING NUMBER: 099083019

SHEET 1 OF 34

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THESE IMPROVEMENT PLANS, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) "GREENBOOK", AND THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPWC).
- NO DEVIATION FROM THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE CITY ENGINEER.
- ALL CONTRACTORS AND SUBCONTRACTORS DOING WORK WITHIN CITY LIMITS SHALL POSSESS A VALID BUSINESS REGISTRATION WITH THE CITY OF AGOURA HILLS PRIOR TO COMMENCING WORK.
- CONTRACTORS SHALL COMPLY WITH ALL CAL-OSHA SAFETY STANDARDS.
- CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS INSPECTOR FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK, AND TWENTY-FOUR (24) HOURS IN ADVANCE OF SPECIFIC INSPECTION NEEDS DURING THE COURSE OF THE WORK.
- ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM AND IS SUBJECT TO INSPECTION BY THE PUBLIC WORKS DEPARTMENT.
- CONTRACTORS SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE CITY ENGINEER PRIOR TO COMMENCING WORK.
- CONTRACTORS SHALL LOCATE, PROTECT, AND SAVE ANY AND ALL SURVEY MONUMENTS THAT WILL BE OR MAY BE DAMAGED OR DESTROYED BY THESE OPERATIONS. ONCE FOUND, THE CONTRACTOR SHALL THEN NOTIFY BOTH THE CITY ENGINEER AND THE CITY'S PUBLIC WORKS INSPECTOR. THE SURVEYOR OF RECORD SHALL RESET ALL SAID MONUMENTS PER THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS ACT.
- ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY SIZES AND LOCATIONS IN THE FIELD.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITY LINES SHOWN. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE PROPERTY INsofar AS IT MAY BE AFFECTED BY THESE OPERATIONS. ALL COSTS FOR PROTECTING, REMOVING, AND RESTORING EXISTING IMPROVEMENTS SHALL BE ASSUMED TO BE INCLUDED IN THE VARIOUS ITEMS OF WORK.
- EXISTING TRAFFIC SIGNS ARE NOT TO BE REMOVED WITHOUT PRIOR NOTIFICATION AND APPROVAL OF THE CITY ENGINEER. AS A MINIMUM, CONSTRUCTION WORKZONE TRAFFIC SIGNS AND STRIPING SHALL BE FURNISHED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (W.A.T.C.H.) MANUAL. TRAFFIC SIGNS AND STRIPING SHALL BE FURNISHED AT THE CONTRACTOR'S EXPENSE.
- ALL MEASURES SHALL BE TAKEN TO ENSURE THAT DUST CONTROL IS MAINTAINED AT ALL TIMES THROUGH THE DURATION OF THE PROJECT.
- ALL UNDERGROUND UTILITIES AND SERVICE LATERALS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS, AND PAVING UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER.
- "RECORD AS BUILT" PLANS SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
- WATER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAS VIRGENES MUNICIPAL WATER DISTRICT STANDARDS.
- SEPARATION OF WATER AND WASTEWATER LINES SHALL BE IN ACCORDANCE WITH LAS VIRGENES MUNICIPAL WATER DISTRICT AND LA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO ENSURE THAT ALL NECESSARY RIGHT-OF-WAY, EASEMENTS, LETTERS OF PERMISSION, AND PERMITS HAVE BEEN SECURED BEFORE MOBILIZING OR BEGINNING ANY WORK.
- ALL STATIONING IS BASED OFF OF THE AGOURA ROAD ROUNDABOUT CONSTRUCTION CENTER LINE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CONSTRUCT ALL CONCRETE IMPROVEMENTS ON A MINIMUM OF 3" OF CLASS # AGGREGATE BASE UNLESS A GREATER DEPTH IS NOTED.
- ELEVATIONS ARE IN FEET, AND CONTOURS ARE AT 1.0' INTERVALS.
- REFER TO LANDSCAPE PLANS FOR LOCATIONS OF LANDSCAPE AND IRRIGATION, TYPES OF PLANTINGS AND HARDSCAPE, AND LOCATION AND DEPTH OF PLANTING SOALS.
- REFER TO STORM DRAIN PLANS FOR ALL PROPOSED STORM DRAIN FACILITIES INCLUDING PIPES, MULETS, JUNCTION STRUCTURES, AND PROPOSED CONNECTION POINTS.
- CONTRACTOR SHALL COORDINATE WITH THE COUNTY TRAFFIC SIGNAL MAINTENANCE DIVISION PRIOR TO COMMENCING WITH ANY WORK.
- TRAFFIC SIGNAL REMOVAL SHALL INCLUDE ALL POLES, FOUNDATIONS, PULL BOXES, WIRING, FIBER OPTIC CABLES, AND CAPPING OF WIRING AND FIBER OPTIC TO THE POINT OF CONNECTION.
- ALL WALKWAYS AND CURB RAMP LANDINGS (TOP AND BOTTOM) SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS-SLOPE OF 2%.
- ROADWAY CENTER LINE PROFILES ARE OF THE AC FINISHED SURFACE, OR 8" BELOW THE MEDIAN FINISHED SURFACE.
- CONTRACTOR SHALL MATCH ELEVATIONS OF ALL CONCRETE IMPROVEMENTS WITH THE ADJACENT EXISTING FEATURES, INCLUDING TC, FL, LIP OF GUTTER, SIDEWALK, AND DRIVEWAYS.



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REVIEWED BY:
 CHARSHANNE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE

APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE



KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 NOTES AND CROSS SECTIONS G-2

DRAWN BY: RP/SC
 CHECKED BY: PH/SM
 TITLE NUMBER: 099083019

SHEET 2 OF 34

REV	SYMBOL	DESCRIPTION OF CHANGE	DATE

100% DRAFT SUBMITTAL - KANAN ROAD AND AGOURA ROAD ROUNDABOUT - CITY OF AGOURA HILLS

CURVE #	RADIUS	LENGTH	DELTA	REMARKS
C3	138.50'	8.25'	$\Delta=377'12"$	(4)
C6	138.50'	214.43'	$\Delta=88'42'33"$	(4)
C10	123.00'	80.48'	$\Delta=28'09'51"$	(4)
C11	148.00'	80.24'	$\Delta=23'38'26"$	(4)
C14	100.00'	28.93'	$\Delta=16'30'05"$	(4)
C15	40.00'	25.87'	$\Delta=37'03'07"$	(4)
C18	200.00'	20.35'	$\Delta=5'46'49"$	(4)
C19	148.00'	32.48'	$\Delta=12'44'44"$	(4)
C20	1.00'	2.83'	$\Delta=162'01'01"$	(4)
C21	100.00'	43.35'	$\Delta=24'50'15"$	(4)
C23	1118.00'	66.60'	$\Delta=3'24'48"$	(4)
C26	100.00'	49.78'	$\Delta=28'31'23"$	(4)
C27	509.00'	91.49'	$\Delta=101'73'33"$	(4)
C28	3.00'	5.62'	$\Delta=1071'73'39"$	(4)
C30	98.00'	27.50'	$\Delta=18'04'48"$	(4)
C31	1.00'	2.29'	$\Delta=131'08'05"$	(4)
C32	100.00'	24.26'	$\Delta=13'53'54"$	(4)
C34	11.00'	8.82'	$\Delta=34'27'50"$	(4)
C35	110.00'	50.32'	$\Delta=2612'38"$	(4)
C38	110.00'	28.41'	$\Delta=14'47'47"$	(4)
C39	50.00'	23.80'	$\Delta=2716'54"$	(4)
C40	188.00'	47.44'	$\Delta=1427'33"$	(4)
C43	188.00'	28.21'	$\Delta=8'54'04"$	(4)
C44	1037.00'	17.47'	$\Delta=057'55"$	(4)
C45	3.00'	8.00'	$\Delta=1143'32'43"$	(4)
C46	98.00'	25.13'	$\Delta=14'41'42"$	(4)
C47	1.00'	2.29'	$\Delta=311'16'53"$	(4)
C48	90.00'	19.14'	$\Delta=121'11'27"$	(4)
C50	11.00'	8.08'	$\Delta=31'41'40"$	(4)
C52	200.00'	14.02'	$\Delta=4'00'58"$	(4)
C55	90.00'	35.89'	$\Delta=22'50'47"$	(4)
C56	1009.00'	122.05'	$\Delta=6'55'30"$	(4)
C57	200.00'	24.82'	$\Delta=7'03'10"$	(4)
C58	115.00'	46.68'	$\Delta=25'15'19"$	(4)
C61	115.00'	29.32'	$\Delta=14'36'28"$	(4)
C62	50.00'	10.88'	$\Delta=1227'51"$	(4)
C63	98.50'	49.87'	$\Delta=2853'40"$	(4)
C64	58.50'	34.78'	$\Delta=3403'53"$	(4)
C65	598.50'	18.41'	$\Delta=1'34'16"$	(4)
C68	598.50'	47.09'	$\Delta=4'33'22"$	(4)
C69	50.00'	26.33'	$\Delta=3010'24"$	(4)
C70	141.00'	7.84'	$\Delta=311'04"$	(4)
C73	120.00'	66.77'	$\Delta=31'52'48"$	(4)
C75	3.00'	5.48'	$\Delta=104'34'18"$	(4)
C76	98.00'	33.07'	$\Delta=1919'54"$	(4)
C77	1.00'	2.30'	$\Delta=13202'48"$	(4)
C78	120.00'	24.05'	$\Delta=1129'05"$	(4)
C80	11.00'	5.44'	$\Delta=2820'22"$	(4)
C81	113.00'	55.49'	$\Delta=28108'04"$	(4)
C84	113.00'	34.72'	$\Delta=1738'07"$	(4)
C85	30.00'	44.36'	$\Delta=3050'15"$	(4)
C86	318.50'	10.89'	$\Delta=1'55'03"$	(4)
C89	318.50'	34.54'	$\Delta=8'11'38"$	(4)

CURVE #	RADIUS	LENGTH	DELTA	REMARKS
C90	200.00'	33.99'	$\Delta=8'44'17"$	(4)
C91	215.00'	27.20'	$\Delta=7'14'51"$	(4)
C94	119.00'	37.75'	$\Delta=17'01'36"$	(4)
C96	222.08'	31.27'	$\Delta=18'04'06"$	(4)
C97	3.00'	8.26'	$\Delta=119'31'12"$	(4)
C98	82.00'	35.52'	$\Delta=26'54'48"$	(4)
C99	1.00'	2.46'	$\Delta=140'53'02"$	(4)
C100	119.00'	38.99'	$\Delta=18'46'08"$	(4)
C102	11.00'	4.30'	$\Delta=22'23'48"$	(4)
C103	65.00'	408.40'	$\Delta=360'00'00"$	(1)
C104	56.00'	351.05'	$\Delta=360'00'00"$	(1)
C105	27.50'	49.28'	$\Delta=102'40'45"$	(4)

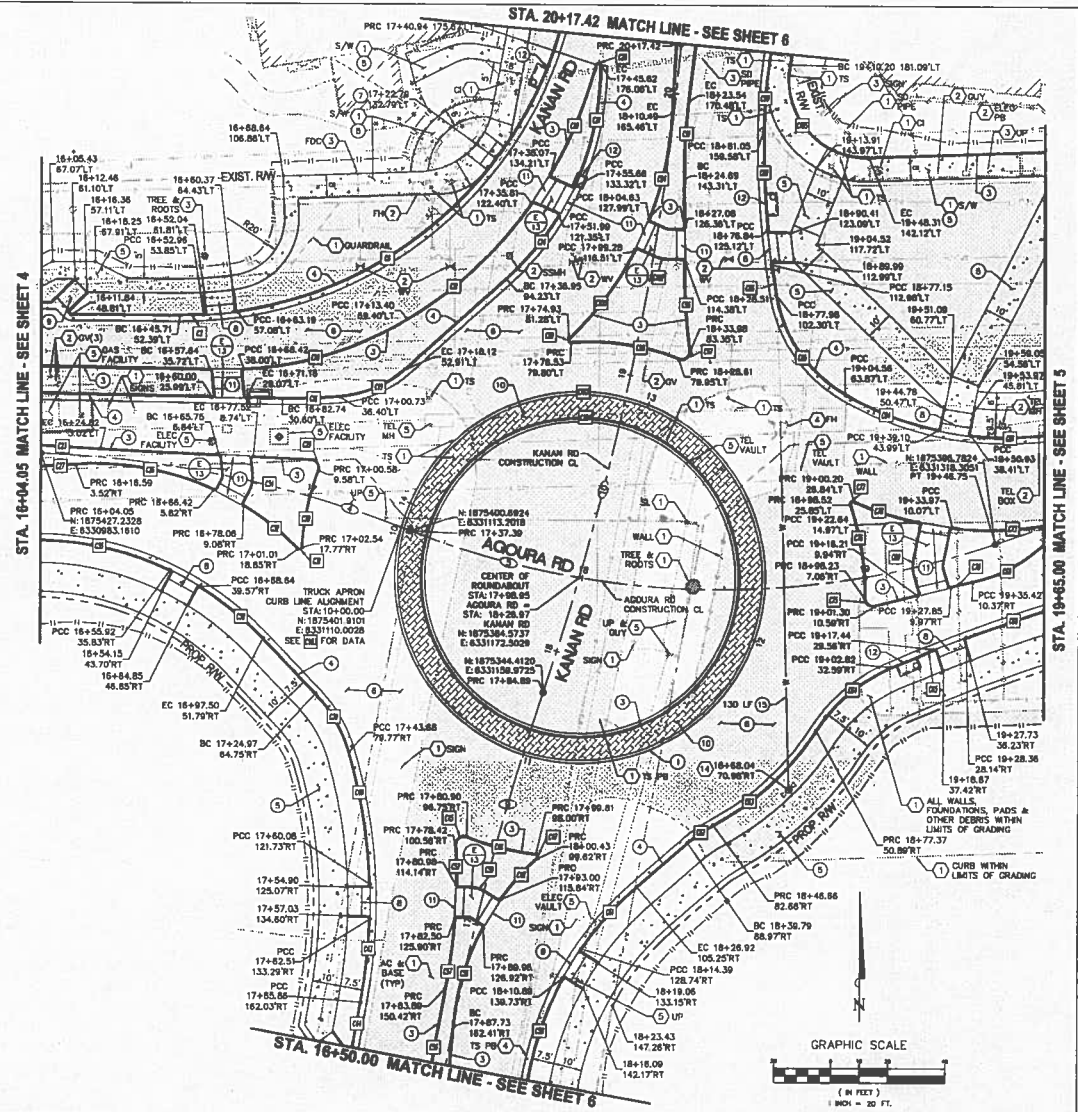
NO.	DELTA OR SPO	RADIUS	LENGTH	REMARKS
4	$\Delta=19' 05' 57"$	400.00'	133.34'	
5	$\Delta=35' 59' 06"$	300.00'	209.36'	
9	$\Delta=29' 14' 49"$	950.00'	484.89'	
10	$\Delta=13' 19' 23"$	1000.00'	232.53'	

DEMOLITION & UTILITY NOTES

- 1 REMOVE
- 2 ADJUST TO FINISHED GRADE
- 3 PROTECT IN PLACE
- 4 RELOCATE
- 5 EXISTING FACILITY TO BE RELOCATED BY OTHERS

CONSTRUCTION NOTES

- 1 CONSTRUCT MODIFIED 81-8 MOUNTABLE CURB PER SPPVC STD. PLAN 121-1, WITH 3" CURB HEIGHT
- 2 (NOT USED)
- 3 CONSTRUCT A1-8 CURB PER SPPVC STD. PLAN 120-1
- 4 CONSTRUCT A2-8 CURB AND GUTTER PER SPPVC STD. PLAN 120-1
- 5 CONSTRUCT 4" THICK CONCRETE SIDEWALK, CURB & SIDEWALK JOINTS PER SPPVC STD. PLAN 112-1
- 6 CONSTRUCT 8 1/2" AC OVER 2" CLASS # AB, OR ALTERNATIVE PER GEOTECH REPORT (TYPICAL)
- 7 CONSTRUCT TYPE 2 CURB RAMP PER SPPVC STD. PLAN 111-3
- 8 CONSTRUCT CURB RAMP PER DETAIL C-1
- 9 CONSTRUCT BICYCLE ACCESS RAMP PER DETAIL C-1
- 10 CONSTRUCT 6" THICK STAMPED COLORED CONCRETE TRUCK APRON OVER 2" CLASS # AB
- 11 INSTALL 3"X10" WIDE YELLOW REFLECTABLE WARNING SURFACE, RED-BLUE PRODUCT OR APPROVED EQUAL
- 12 STORM STRUCTURE PER STORM DRAIN PLANS
- 13 CONSTRUCT COMMERCIAL DRIVEWAY TYPE A PER SPPVC 110-1
- 14 CONSTRUCT COMMERCIAL DRIVEWAY TYPE B PER SPPVC 110-1
- 15 INSTALL 6" D.I.P.



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

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 ASSOCIATE CIVIL ENGINEER
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APPROVED BY:
 BRIAN YAMBAO
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE: _____

CITY OF

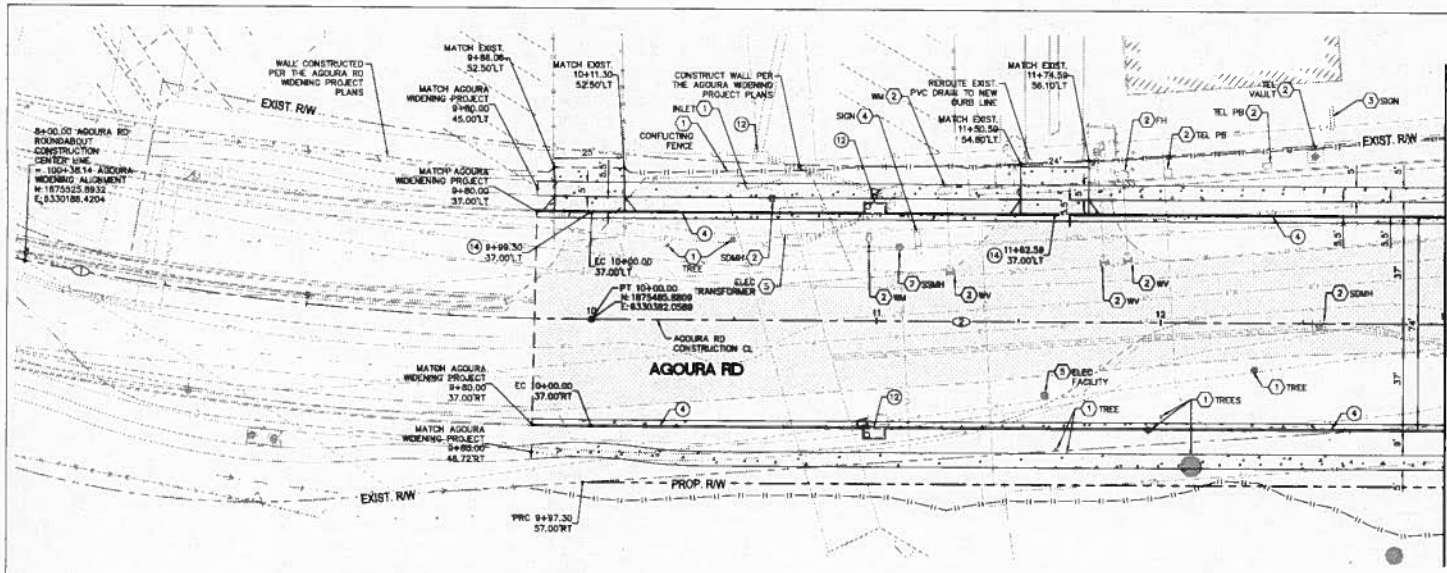
AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 LAYOUT PLAN C-1

DRAWN BY: RP/SC
 CHECKED BY: FH/SM
 RFA JOB NUMBER: 099083019

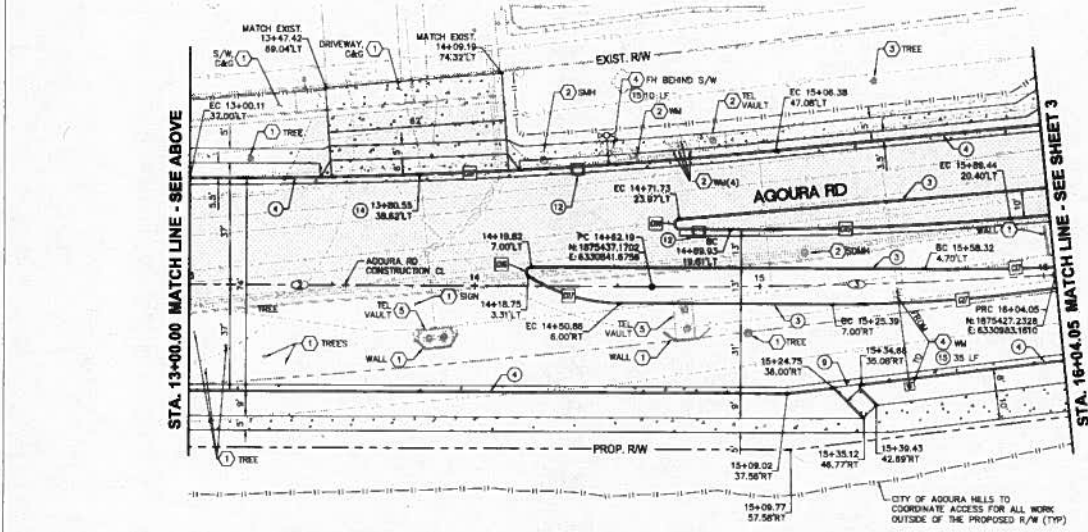
SHEET 3 OF 34

100% DRAFT SUBMITTAL - KANAN ROAD AND AGOURA ROAD ROUNDABOUT - CITY OF AGOURA HILLS



CURVE DATA TABLE				
CURVE #	INFLUX	LENGTH	DELTA	REMARKS
C23	1118.00'	69.60'	$\Delta=324'48"$	(3)
C27	509.00'	91.46'	$\Delta=107'53"$	(3)
C107	2000.00'	205.58'	$\Delta=5'32'22"$	(4)
C114	2.00'	6.10'	$\Delta=174'52'03"$	(4)
C115	1100.00'	68.54'	$\Delta=50'57'57"$	(4)
C116	2.00'	5.15'	$\Delta=147'39'12"$	(4)
C117	60.00'	33.87'	$\Delta=32'20'48"$	(4)

STA. 13+00.00 MATCH LINE - SEE BELOW



STA. 13+00.00 MATCH LINE - SEE ABOVE

STA. 16+04.05 MATCH LINE - SEE SHEET 3

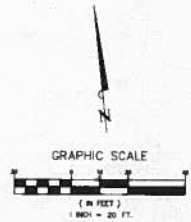
CONSTRUCTION ALIGNMENT DATA TABLE				
NO.	DELTA OR BEND	INFLUX	LENGTH	REMARKS
1	$\Delta=5' 32' 23"$	182.01'	106.00'	
2	S $62'57'01"$ E		462.23'	
3	$\Delta=4' 03' 51"$	2000.00'	141.96'	

DEMOLITION & UTILITY NOTES

- (1) REMOVE
- (2) ADJUST TO FINISHED GRADE
- (3) PROTECT IN PLACE
- (4) RELOCATE
- (5) DOTTING FACILITY TO BE RELOCATED BY OTHERS

CONSTRUCTION NOTES

- (1) CONSTRUCT MODIFIED 81-8 SOLUBLE-CURE CURB PER SP19C STD. PLAN 111-1, WITH 3" CURB HEIGHT
- (2) (NOT USED)
- (3) CONSTRUCT A1-8 CURB PER SP19C STD. PLAN 120-1
- (4) CONSTRUCT A2-8 CURB AND OUTER PER SP19C STD. PLAN 120-1
- (5) CONSTRUCT 4" THICK CONCRETE SIDEWALK CURB IN SIDEWALK JOINTS PER SP19C STD. PLAN 111-1
- (6) CONSTRUCT 5 1/2" AC OVER 2" CLASS II AE, OR ALTERNATIVE PER DETACHED REPORT (TYPICAL)
- (7) CONSTRUCT TYPE 2 CURB RAMP PER SP19C STD. PLAN 111-3
- (8) CONSTRUCT CURB RAMP PER DETAIL (C-2)
- (9) CONSTRUCT BICYCLE ACCESS RAMP PER (C-2)
- (10) CONSTRUCT 4" THICK STAMPED COLORED CONCRETE TRUCK APRON OVER 2" CLASS II AE
- (11) INSTALL 3"x10" WIDE YELLOW DETECTABLE WARNING SURFACE, RED-MAT PRODUCT OR APPROVED EQUAL
- (12) STORM STRUCTURE PER STORM DRAIN PLANS
- (13) CONSTRUCT COMMERCIAL DRIVEWAY TYPE A PER SP19C 110-1
- (14) CONSTRUCT COMMERCIAL DRIVEWAY TYPE B PER SP19C 110-1
- (15) INSTALL 6" S.F.P.



REV	SYMBOL	DESCRIPTION OF CHANGE	DATE

PREPARED BY:

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CHARMAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

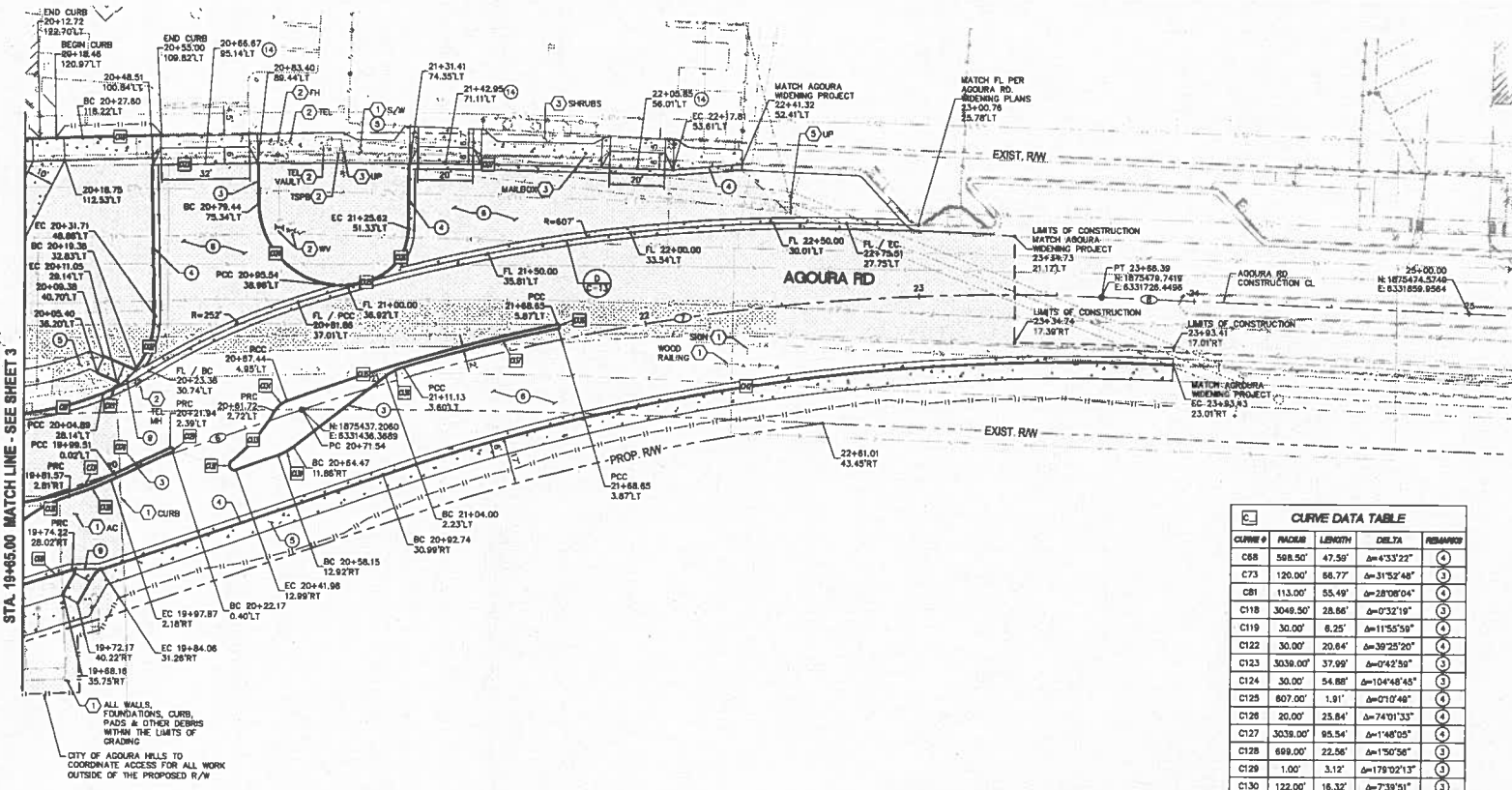
CITY OF

AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 LAYOUT PLAN C-2

DRAWN BY: RP/SC CHECKED BY: PH/SM FULL JOB NUMBER: 099083019

SHEET 4 OF 34



STA. 19+85.00 MATCH LINE - SEE SHEET 3

DEMOLITION & UTILITY NOTES

- 1 REMOVE
- 2 ADJUST TO FINISHED GRADE
- 3 PROTECT IN PLACE
- 4 RELOCATE
- 5 EXISTING FACILITY TO BE RELOCATED BY OTHERS

CONSTRUCTION NOTES

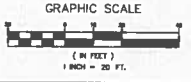
- 1 CONSTRUCT MOORED 81-8 MOUNTABLE CURB PER SPCC STD. PLAN 120-1, WITH 3" CURB HEIGHT
- 2 (NOT USED)
- 3 CONSTRUCT A1-8 CURB PER SPCC STD. PLAN 120-1
- 4 CONSTRUCT A2-8 CURB AND GUTTER PER SPCC STD. PLAN 120-1
- 5 CONSTRUCT 4" THICK CONCRETE SIDEWALK, CURB & SIDEWALK JOINTS PER SPCC STD. PLAN 112-1
- 6 CONSTRUCT 8 1/2" AC OVER 21" CLASS II AB, OR ALTERNATIVE PER GEOTECH REPORT (TYPICAL)
- 7 CONSTRUCT TYPE 2 CURB RAMP PER SPCC STD. PLAN 111-3
- 8 CONSTRUCT CURB RAMP PER DETAIL C-23
- 9 CONSTRUCT BICYCLE ACCESS RAMP PER DETAIL C-23
- 10 CONSTRUCT 6" THICK STAMPED COLORED CONCRETE TRUCK APPROX OVER 21" CLASS II AB
- 11 INSTALL 3"x10" WIRE YELLOW DETECTABLE WARNING SURFACE, REX-MAT PRODUCT OR APPROVED EQUAL
- 12 STORM STRUCTURE PER STORM DRAIN PLANS
- 13 CONSTRUCT COMMERCIAL DRIVEWAY TYPE A PER SPCC 110-1
- 14 CONSTRUCT COMMERCIAL DRIVEWAY TYPE B PER SPCC 110-1
- 15 INSTALL 6" D.I.P.

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	REMARKS
C68	598.50'	47.50'	Δ=43°32'22"	4
C73	120.00'	66.77'	Δ=31°52'48"	4
C81	113.00'	55.49'	Δ=28°08'04"	4
C119	3049.50'	28.66'	Δ=0°32'10"	3
C119	30.00'	8.25'	Δ=11°55'50"	4
C122	30.00'	20.64'	Δ=39°25'20"	4
C123	3036.00'	37.99'	Δ=0°42'50"	3
C124	30.00'	54.88'	Δ=104°48'45"	4
C125	607.00'	1.91'	Δ=0°10'46"	4
C126	20.00'	25.64'	Δ=74°01'33"	4
C127	3038.00'	95.54'	Δ=1°48'05"	4
C128	669.00'	22.56'	Δ=1°50'56"	4
C129	1.00'	3.12'	Δ=178°02'13"	3
C130	122.00'	16.32'	Δ=7°39'51"	3
C131	50.00'	21.28'	Δ=24°21'50"	3
C132	2.00'	5.63'	Δ=161°20'47"	3
C133	81.00'	23.74'	Δ=22°18'00"	3
C134	9.00'	6.26'	Δ=39°32'16"	3
C135	669.00'	101.90'	Δ=8°21'09"	3
C136	1.00'	3.14'	Δ=180°00'00"	3
C137	887.00'	57.79'	Δ=4°45'03"	3
C138	20.00'	7.32'	Δ=20°58'07"	3
C139	20.00'	8.44'	Δ=18°26'58"	3
C142	782.50'	291.48'	Δ=21°20'33"	4

CONSTRUCTION ALIGNMENT DATA TABLE

NO.	DELTA OR BVD	RADIUS	LENGTH	REMARKS
6	N 71°03'58" E		124.79'	
7	Δ=81° 07' 01"	890.00'	294.85'	
8	S 87°47'03" E		133.61'	

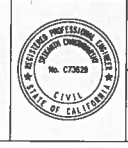


REV	SYMBOL	DESCRIPTION OF CHANGE	PCE	DATE

PREPARED BY:

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SRINATH CHANDRASEKAR R.E.E. C73829 DATE



REVIEWED BY:

CHARMAINE YAMBAO ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

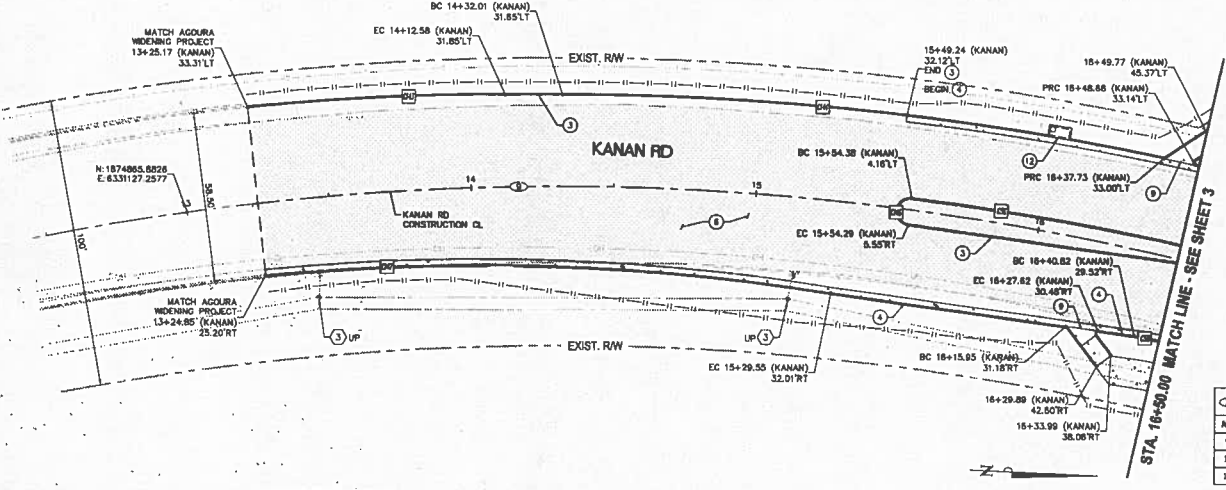
CITY OF AGOURA HILLS

KANAN ROAD AND AGOURA ROAD ROUNDABOUT

LAYOUT PLAN C-3

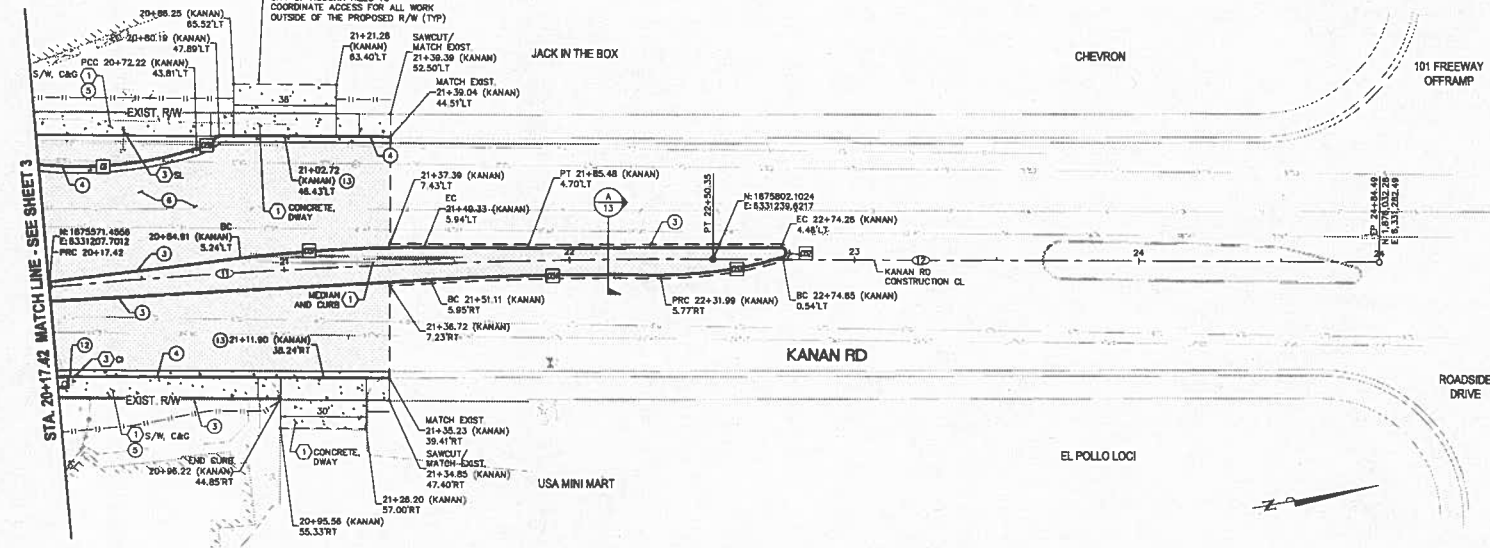
DRAWN BY: RP/SC CHECKED BY: FH/SAM DATA CENTER NUMBER: 099083019

SHEET 5 OF 34



NO.	DELTA OR BVD	RADIUS	LENGTH	REMARKS
9	Δ=2° 14' 40"	950.00'	484.89'	
11	Δ=5° 20' 18"	2500.00'	232.93'	
12	N 10° 32' 55" E		149.65'	

CURVE #	RADIUS	LENGTH	DELTA	REMARKS
C8	138.50'	214.43'	Δ=88°42'33"	(1)
C56	1009.00'	122.05'	Δ=6°35'50"	(2)
C58	115.00'	48.68'	Δ=23°15'19"	(2)
C143	900.00'	90.43'	Δ=5°45'24"	(2)
C144	1037.00'	212.68'	Δ=11°45'04"	(2)
C146	4.85'	15.24'	Δ=180°00'00"	(2)
C147	774.00'	188.82'	Δ=14°43'03"	(2)
C150	20.00'	8.18'	Δ=26°15'15"	(2)
C151	498.00'	64.82'	Δ=7°26'04"	(2)
C152	2.00'	5.71'	Δ=183°33'47"	(2)
C153	149.00'	43.45'	Δ=16°42'24"	(2)
C154	1112.00'	80.70'	Δ=6°08'30"	(2)

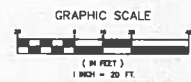


DEMOLITION & UTILITY NOTES

- 1 REMOVE
- 2 ADJUST TO FINISHED GRADE
- 3 PROTECT IN PLACE
- 4 RELOCATE
- 5 EXISTING FACILITY TO BE RELOCATED BY OTHERS

CONSTRUCTION NOTES

- 1 CONSTRUCT MODIFIED B1-6 MOUNTABLE CURBS PER SPWPC STD. PLAN 121-1, WITH 3" CURB HEIGHT
- 2 (NOT USED)
- 3 CONSTRUCT A1-3 CURBS PER SPWPC STD. PLAN 120-1
- 4 CONSTRUCT A2-5 CURBS AND GUTTER PER SPWPC STD. PLAN 120-1
- 5 CONSTRUCT 4" THICK CONCRETE SIDEWALK, CURBS & SIDEWALK JOINTS PER SPWPC STD. PLAN 112-1
- 6 CONSTRUCT 5 1/2" AC OVER 21" CLASS B AB, OR ALTERNATIVE PER GUTTER REPORT (TYPICAL)
- 7 CONSTRUCT TYPE 2 CURB RAMP PER SPWPC STD. PLAN 111-3
- 8 CONSTRUCT CURB RAMP PER DETAIL 12-11
- 9 CONSTRUCT BICYCLE ACCESS RAMP PER 12-11
- 10 CONSTRUCT 6" THICK STAMPED COLORED CONCRETE TRUCK APRON OVER 21" CLASS B AB
- 11 INSTALL 3/16" WIRE YELLOW DETECTABLE WARNING SURFACE, RED-MAT PRODUCT OR APPROVED EQUAL
- 12 STORM STRUCTURE PER STORM DRAIN PLANS
- 13 CONSTRUCT COMMERCIAL DRIVEWAY TYPE A PER SPWPC 110-1
- 14 CONSTRUCT COMMERCIAL DRIVEWAY TYPE B PER SPWPC 110-1
- 15 INSTALL 6" D.I.P.



REV	SYMBOL	DESCRIPTION OF CHANGE	RCD	DATE

PREPARED BY:

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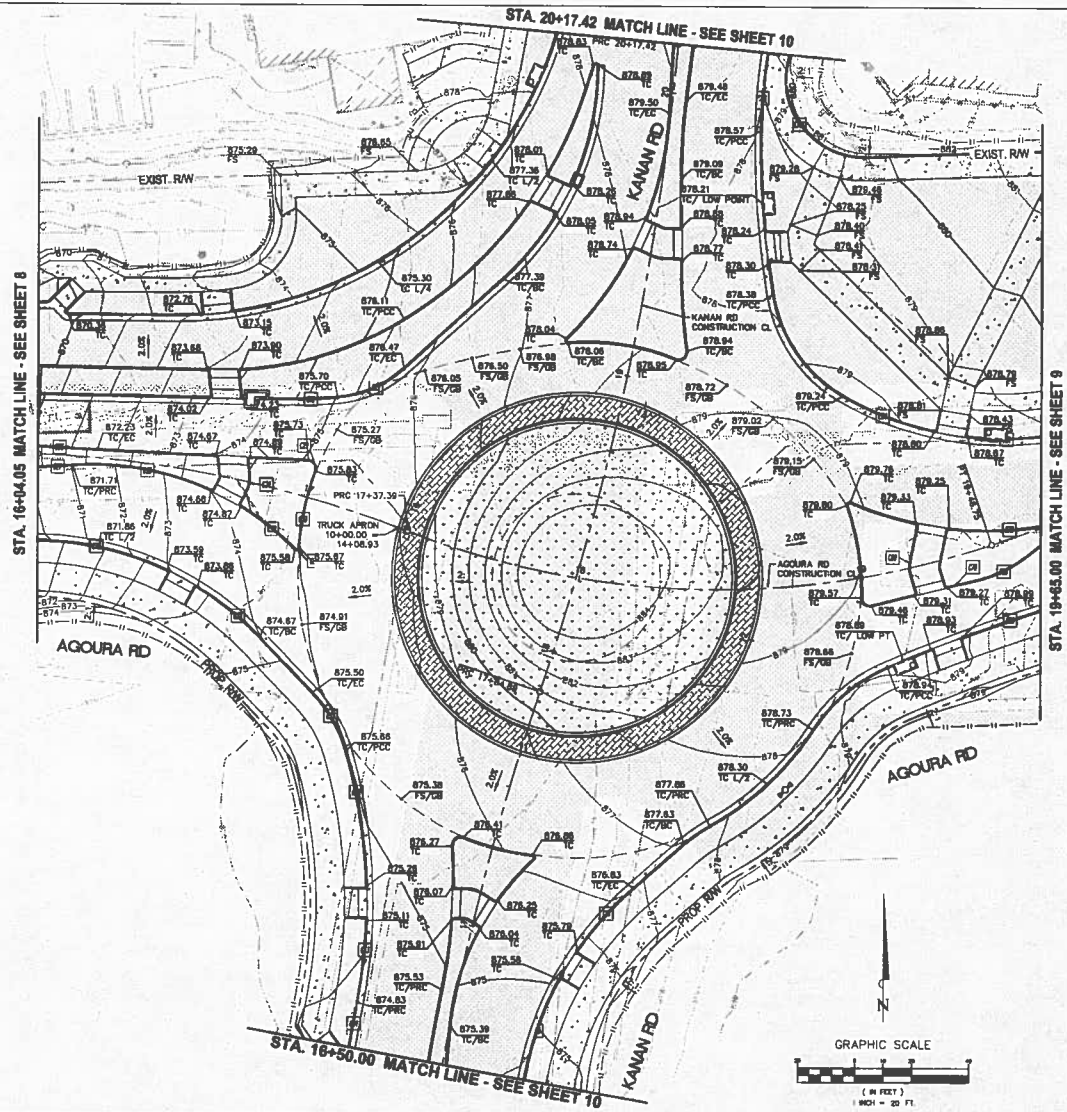


REVIEWED BY:
 CHARMINE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE: _____
 APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE: _____



KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 LAYOUT PLAN C-4

DRAWN BY: RP/SC
 CHECKED BY: PH/SM
 DATE: 09/08/2019
 SHEET 6 OF 34



STA. 16+04.05 MATCH LINE - SEE SHEET 8

STA. 20+17.42 MATCH LINE - SEE SHEET 10

STA. 16+50.00 MATCH LINE - SEE SHEET 9

REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

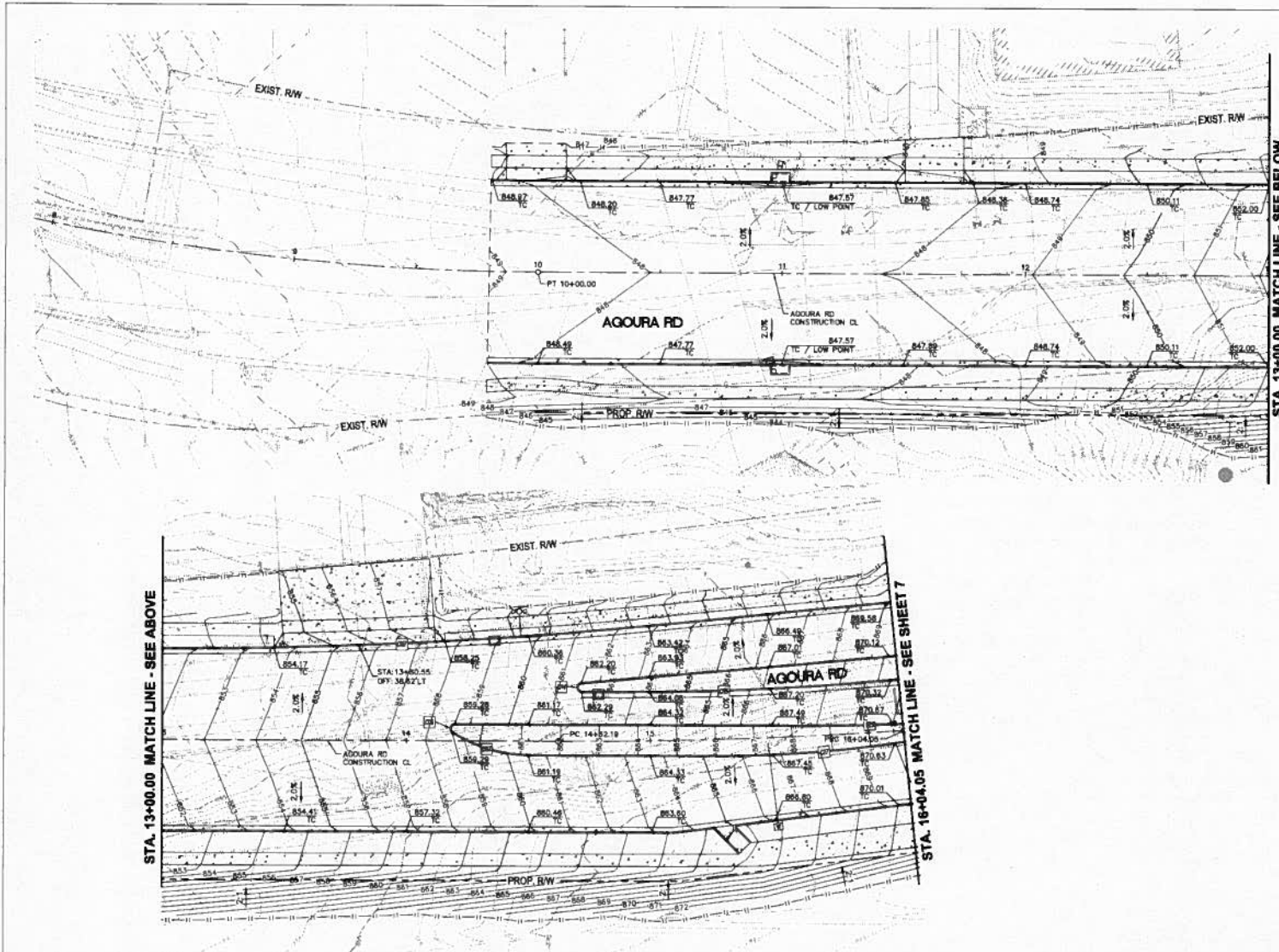
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 Tel (818) 227-2790 Fax (818) 808-0885



REVIEWED BY:
 CHARMINE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE _____
 APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE _____

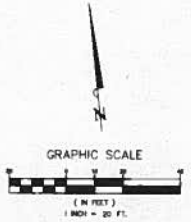


KANAN ROAD AND AGOURA ROAD ROUNDABOUT
 GRADING AND PAVEMENT ELEVATION PLAN C-5
 DRAWN BY: _____
 RP/SC
 CHECKED BY: _____
 PH/SM
 KHA JOB NUMBER: 099083019
 SHEET 7 OF 34




CONSTRUCTION NOTES

- ① CONSTRUCT MODIFIED B1-5 MOUNDABLE CURB PER SPHIC STD. PLAN 121-1, WITH 3" CURB HEIGHT
- ② (NOT USED)
- ③ CONSTRUCT A1-8 CURB PER SPHIC STD. PLAN 120-1
- ④ CONSTRUCT A2-8 CURB AND CUTTER PER SPHIC STD. PLAN 120-1
- ⑤ CONSTRUCT 4" THICK CONCRETE SIDEWALK, CURB & SIDEWALK JOINTS PER SPHIC STD. PLAN 112-1
- ⑥ CONSTRUCT 3 1/2" AC OVER 21" CLASS # AB, OR ALTERNATIVE PER SECTION REPORT (TYPICAL)
- ⑦ CONSTRUCT TYPE 2 CURB RAMP PER SPHIC STD. PLAN 111-3
- ⑧ CONSTRUCT CURB RAMP PER DETAIL
- ⑨ CONSTRUCT BICYCLE ACCESS RAMP PER
- ⑩ CONSTRUCT 6" THICK STAMPED COLORED CONCRETE BRICK APRON OVER 21" CLASS # AB
- ⑪ INSTALL 3"x10" WIDE YELLOW DETECTABLE WALKING SURFACE RISE-447 PRODUCT OR APPROVED EQUAL
- ⑫ STORM STRUCTURE PER STORM DRAIN PLANS
- ⑬ CONSTRUCT COMMERCIAL DRIVEWAY TYPE A PER SPHIC 110-1
- ⑭ CONSTRUCT COMMERCIAL DRIVEWAY TYPE B PER SPHIC 110-1
- ⑮ INSTALL 6" D.I.P.



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:



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SHARON CHAMPAGNEY R.C.E. C1929 DATE



REVIEWED BY:

CHARMAINE YAMRAC DATE
 ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMPRO ADEVA DATE
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF

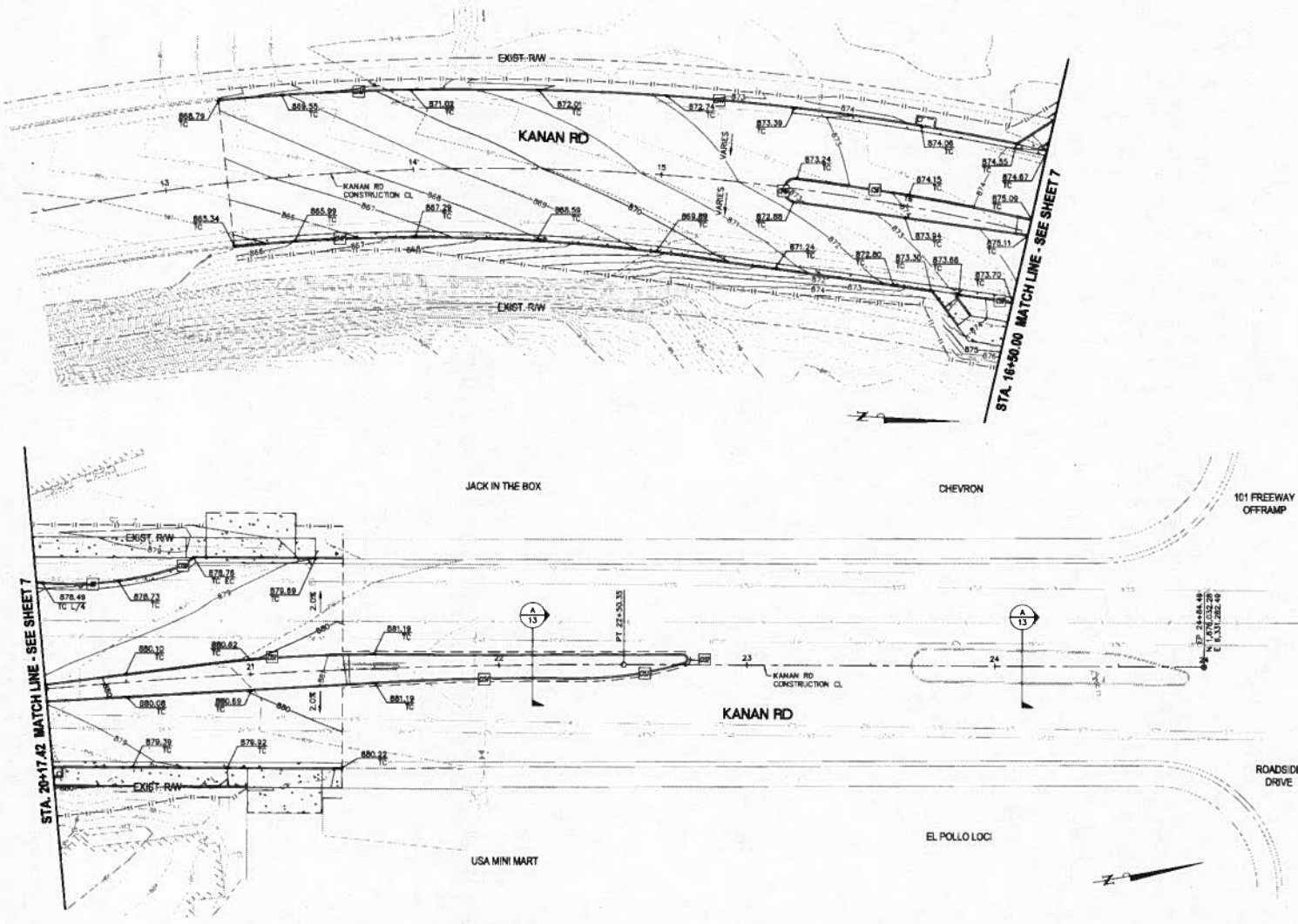


AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT

GRADING AND PAVEMENT ELEVATION PLAN C-6

DRAWN BY: HP/SC CHECKED BY: RHA/JSM RHA JOB NUMBER: 099083019 SHEET 8 OF 34



REV	SYMBOL	DESCRIPTION OF CHANGE	DATE

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SHIKANTH CHAKRAVARTHY E.C.E. C73829 DATE

REVIEWED BY:

CHARMAYNE YAMBAO DATE
 ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA DATE
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



CITY OF



AGOURA HILLS

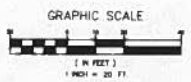
KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT

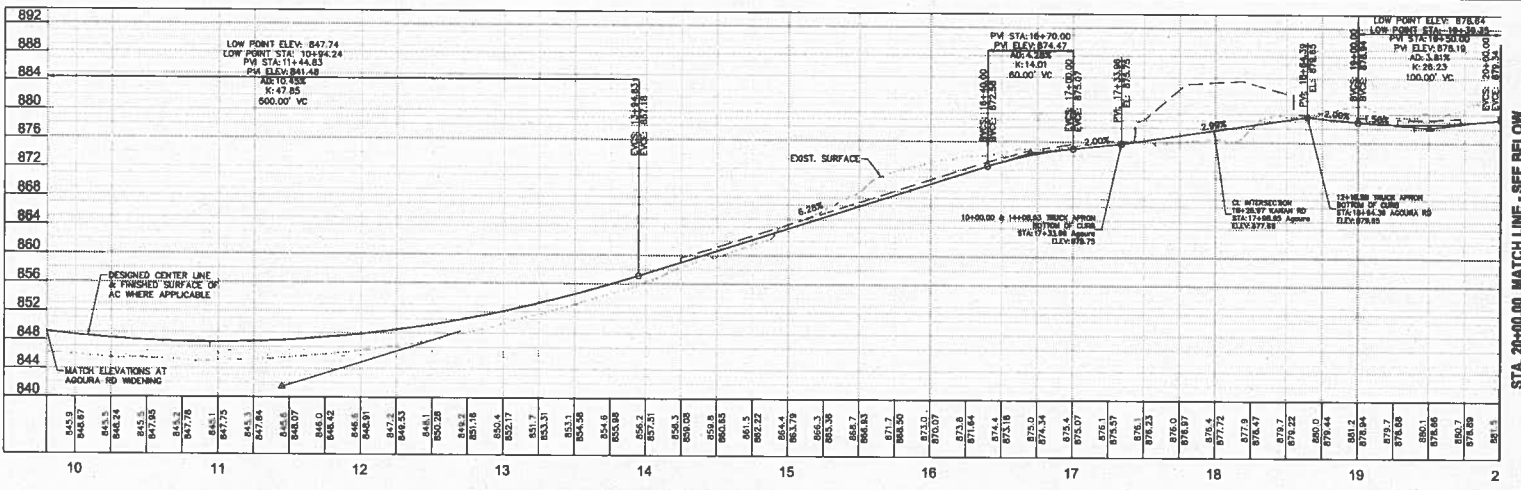
GRADING AND PAVEMENT ELEVATION PLAN C-8

DRAWN BY: RP/SC CHECKED BY: PH/SM

ISSUE NUMBER: 09908.3019

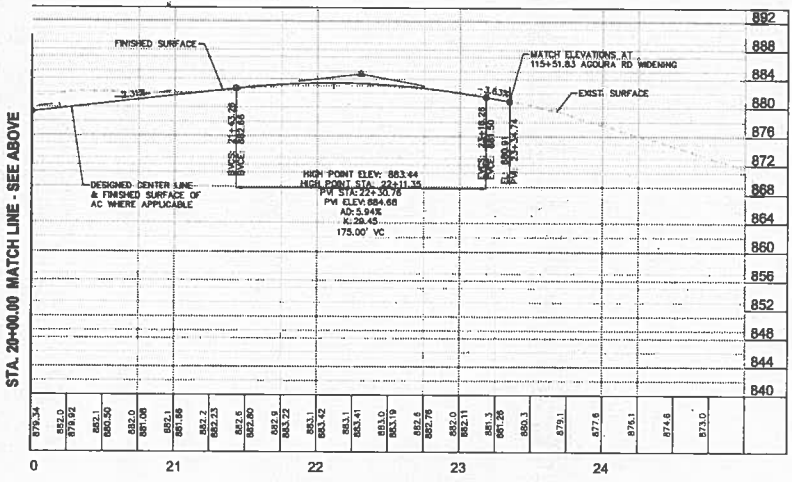
SHEET 10 OF 34





AGOURA RD CENTER LINE PROFILE
STA 8+50.00 - 20+00.00

SCALE:
HORIZ: 1"=40'
VERT: 1"=8'



AGOURA RD CENTER LINE PROFILE
STA 20+00.00 - 24+50.00

SCALE:
HORIZ: 1"=40'
VERT: 1"=8'

REV	SYMBOL	DESCRIPTION OF CHANGE	DATE

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SRINIKH CHANDRASEKHAR R.C.E. C73629 DATE



REVIEWED BY:

CHARMAINE YAMBAO DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

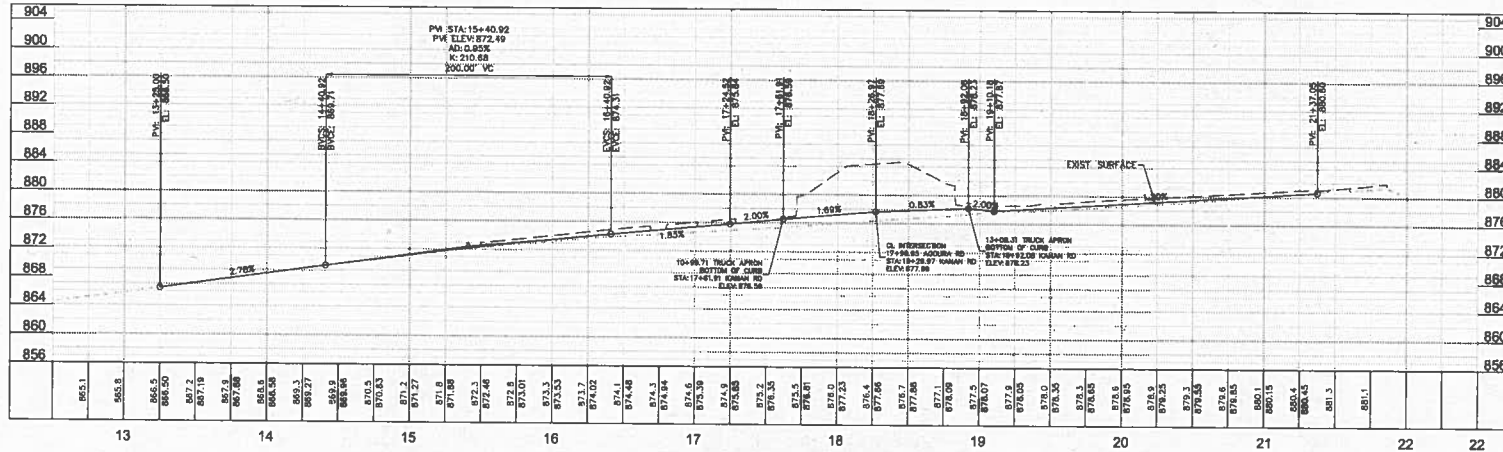
RAMIRO ADEVA DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



KANAN ROAD AND
AGOURA ROAD ROUNDABOUT
ROADWAY CENTER LINE PROFILES C-9

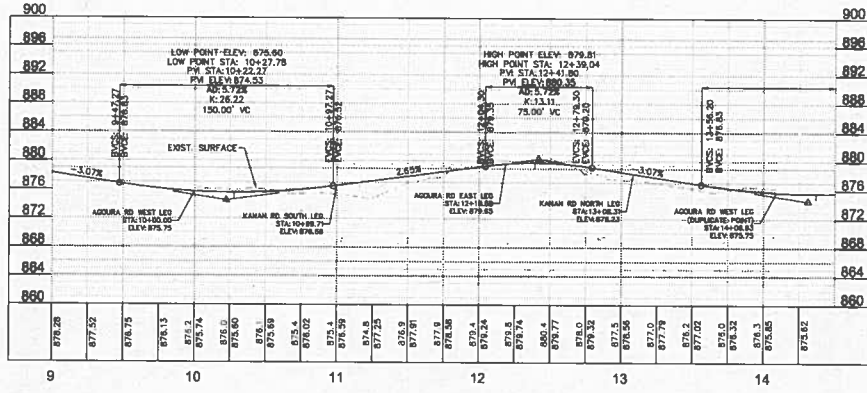
DRAWN BY: RY/SC CHECKED BY: TY/DAI NNA JOB NUMBER: 09908.3019

SHEET 11 OF 34



KANAN RD CENTER LINE PROFILE
STA 12+50.00 - 22+00.00

SCALE:
 HORIZ: 1"=40'
 VERT: 1"=8'



TRUCK APRON PROFILE -
FINISHED SURFACE AT BOTTOM FACE OF CURB
STA 10+00.00 - 14+08.83

SCALE:
 HORIZ: 1"=40'
 VERT: 1"=8'

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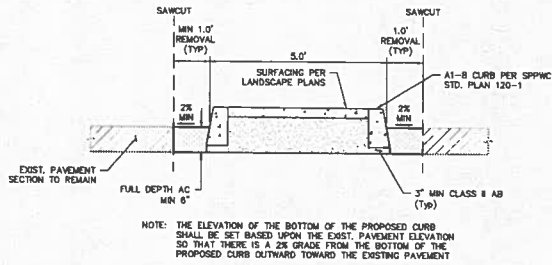
REVIEWED BY:
 CHARMANE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE
 APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE



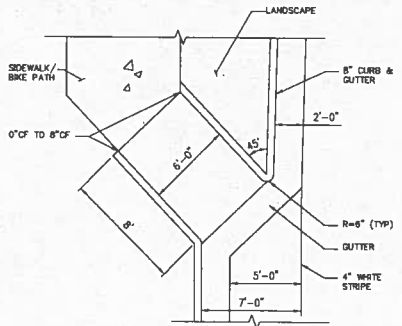
KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 ROADWAY CENTER LINE PROFILES C-10

REV	SYMBOL	DESCRIPTION OF CHANGE	DATE

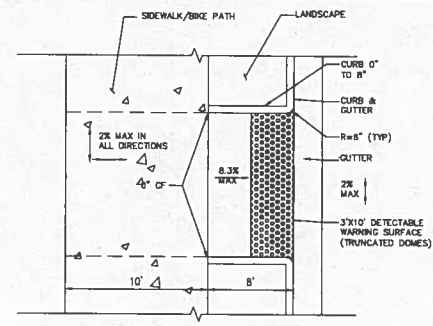
DRAWN BY: RP/SC
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 KHA JOB NUMBER: 099083019
 SHEET 12 OF 34



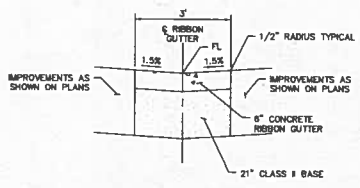
A
13 **MEDIAN CROSS-SECTION**
NOT TO SCALE



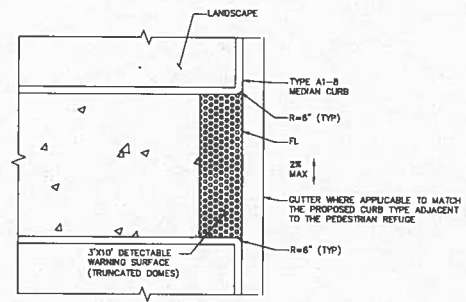
B
13 **BICYCLE CURB RAMP DETAIL**
NOT TO SCALE



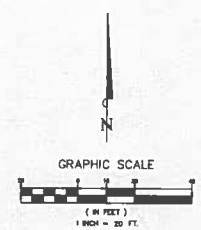
C
13 **PEDESTRIAN CURB RAMP DETAIL**
NOT TO SCALE



D
13 **RIBBON GUTTER DETAIL**
NOT TO SCALE



E
13 **MEDIAN PEDESTRIAN REFUGE DETAIL**
NOT TO SCALE



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

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SRINIVAS CHANRAYANATH I.C.E. 073829 DATE

REVIEWED BY:

CHANSANEE YAMBAO
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

CITY OF

AGOURA HILLS

KANAN ROAD AND
AGOURA ROAD ROUNDABOUT

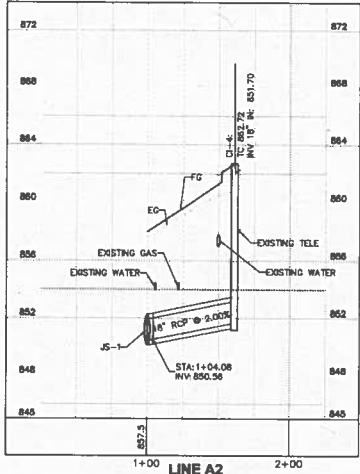
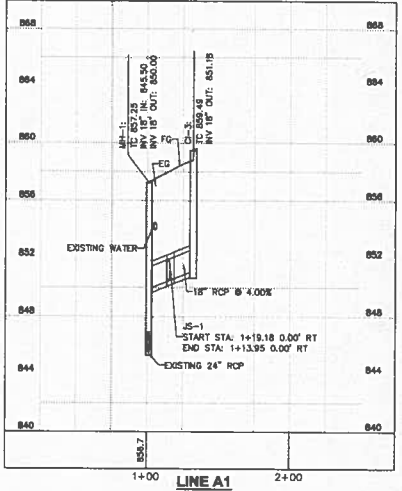
CIVIL DETAILS C-11

DRAWN BY: RP/SC CHECKED BY: PH/SM

DATE: 099083019

PROJECT NUMBER: 099083019

SHEET 13 OF 34

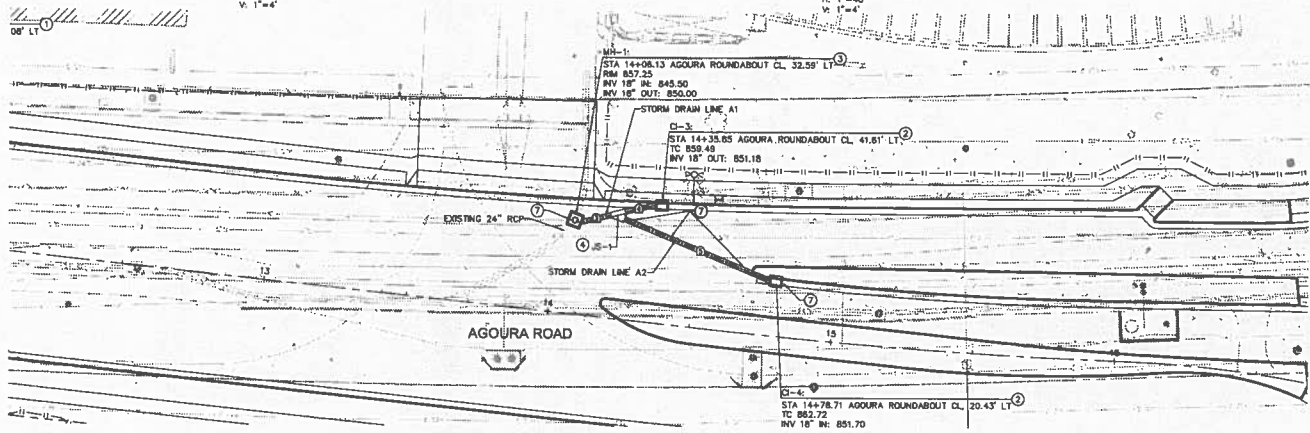


CONSTRUCTION NOTES

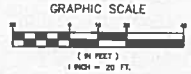
- ① CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 300-3 WITH CATCH BASIN FILTER
- ② CONSTRUCT CATCH BASIN (W=3.5') PER SPPWC STD. PLAN 302-2 WITH CATCH BASIN FILTER
- ③ CONSTRUCT SDWM PER SPPWC STD. PLAN 321-1
- ④ CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 331-3
- ⑤ CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 300-4
- ⑥ CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 340-2
- ⑦ UTILITY CROSSING
- ⑧ CONSTRUCTION SNALE INLET PER DETAIL
- ⑨ REMOVE STORM DRAIN PIPE/STRUCTURE
- ⑩ CONSTRUCT CONCRETE SNALE TO DRAIN TOWARD SNALE INLET. SIZE TO MATCH EXISTING
- ⑪ CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 301-3 WITH CATCH BASIN FILTER

NOTES:
 1. ALL CATCH BASIN CURB INLET STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE CATCH BASIN AT THE FACE OF CURB. ALL OTHER STORM DRAIN STRUCTURES, STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE STRUCTURE.
 2. ALL STATION AND OFFSETS SHOWN IN PROFILE ARE BASED ON ORIGINAL PIPE ALIGNMENT.
 3. UTILITY CONFLICTS TO BE PHOTOLOG PRIOR TO CONSTRUCTION AND COORDINATION WITH UTILITY OWNER FOR RELOCATION WILL BE COMPLETED BY THE CITY.

LINE AND CURVE TABLE				
NO.	DELTA OR BVC	RADIUS	LENGTH	REMARKS
3	N 77°20'13" E		11.42'	18" RCP 1350-D
4	N 77°20'13" E		10.66'	18" RCP 1350-D
5	S 67°35'15" E		54.89'	18" RCP 1350-D



LINE A1 AND LINE A2
 SCALE
 H: 1"=20'



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REVIEWED BY:
 CHARMANNE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE

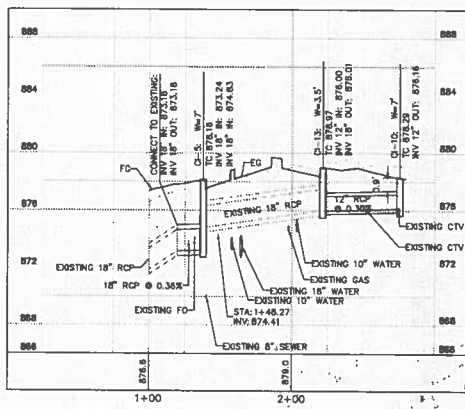
APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE



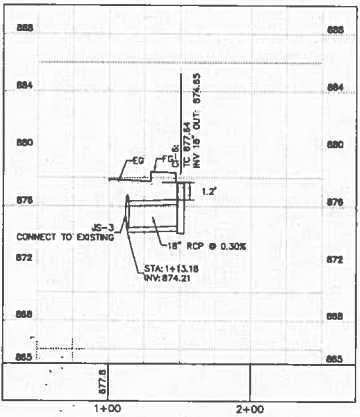
**KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 DRAINAGE PLAN AND PROFILE C-12**

DRAWN BY: RP/JSC	CHECKED BY: PH/JSM	PLA. JOB NUMBER 099083019	SHEET 14 OF 34
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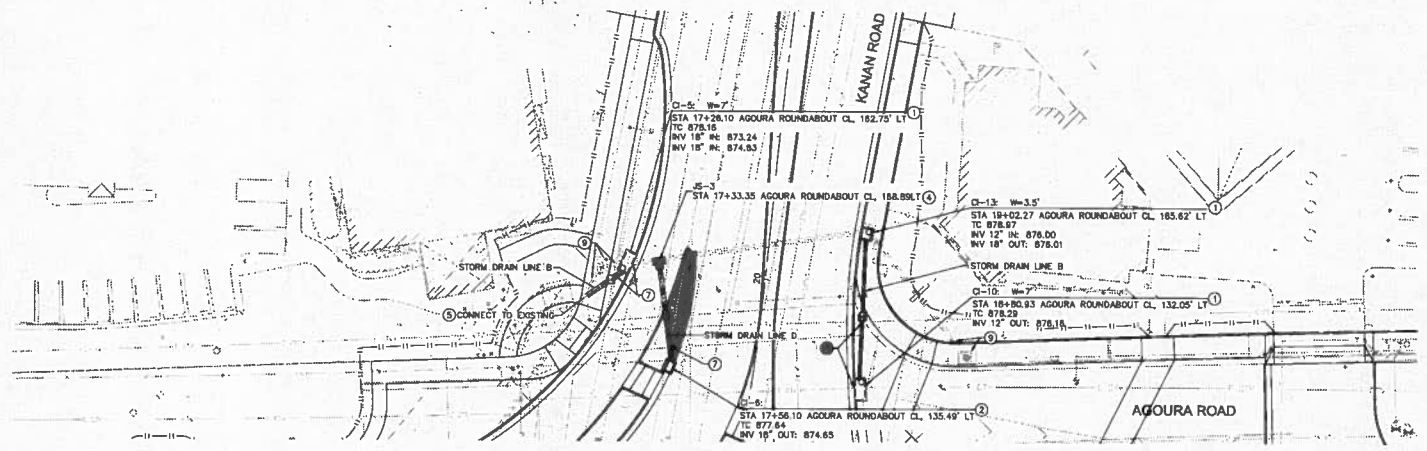
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE



LINE B
SCALE
H: 1"=40'
V: 1"=4'



LINE D
SCALE
H: 1"=40'
V: 1"=4'

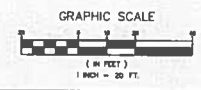


LINE B AND LINE D
SCALE
H: 1"=20'

CONSTRUCTION NOTES

- ① CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 300-3 WITH CATCH BASIN FILTER
 - ② CONSTRUCT CATCH BASIN (N=3.5) PER SPPWC STD. PLAN 302-2 WITH CATCH BASIN FILTER
 - ③ CONSTRUCT SOHM PER SPPWC STD. PLAN 321-1
 - ④ CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 331-3
 - ⑤ CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 300-4
 - ⑥ CONSTRUCTION JUNCTION STRUCTURE PER SPPWC STD. PLAN 340-2
 - ⑦ UTILITY CROSSING
 - ⑧ CONSTRUCTION SWALE INLET PER DETAIL
 - ⑨ REMOVE STORM DRAIN PIPE/STRUCTURE
 - ⑩ CONSTRUCT CONCRETE SWALE TO DRAIN TOWARD SWALE INLET. SIZE TO MATCH EXISTING
 - ⑪ CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 301-3 WITH CATCH BASIN FILTER
- NOTES:
1. ALL CATCH BASIN CURB INLET STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE CATCH BASIN AT THE FACE OF CURB. ALL OTHER STORM DRAIN STRUCTURES, STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE STRUCTURE.
2. ALL STATION AND OFFSETS SHOWN IN PROFILE ARE BASED ON ORIGINAL PIPE ALIGNMENT.
3. UTILITY CONFLICTS TO BE POTHOLED PRIOR TO CONSTRUCTION AND COORDINATION WITH UTILITY OWNER FOR RELOCATION WILL BE COMPLETED BY THE CITY.

LINE AND CURVE TABLE				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
14	S 50°33'47" W		15.25'	18" RCP 1750-D
15	N 7°29'22" W		31.90'	18" RCP 1750-D
16	N 21°01' E		49.14'	12" RCP 1750-D




REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

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PREPARED BY:
 SRINATH CHANDRANARAYAN I.C.E. 073829 DATE

REVIEWED BY:
 CHARISANE YAMBAO ASSOCIATE CIVIL ENGINEER DATE

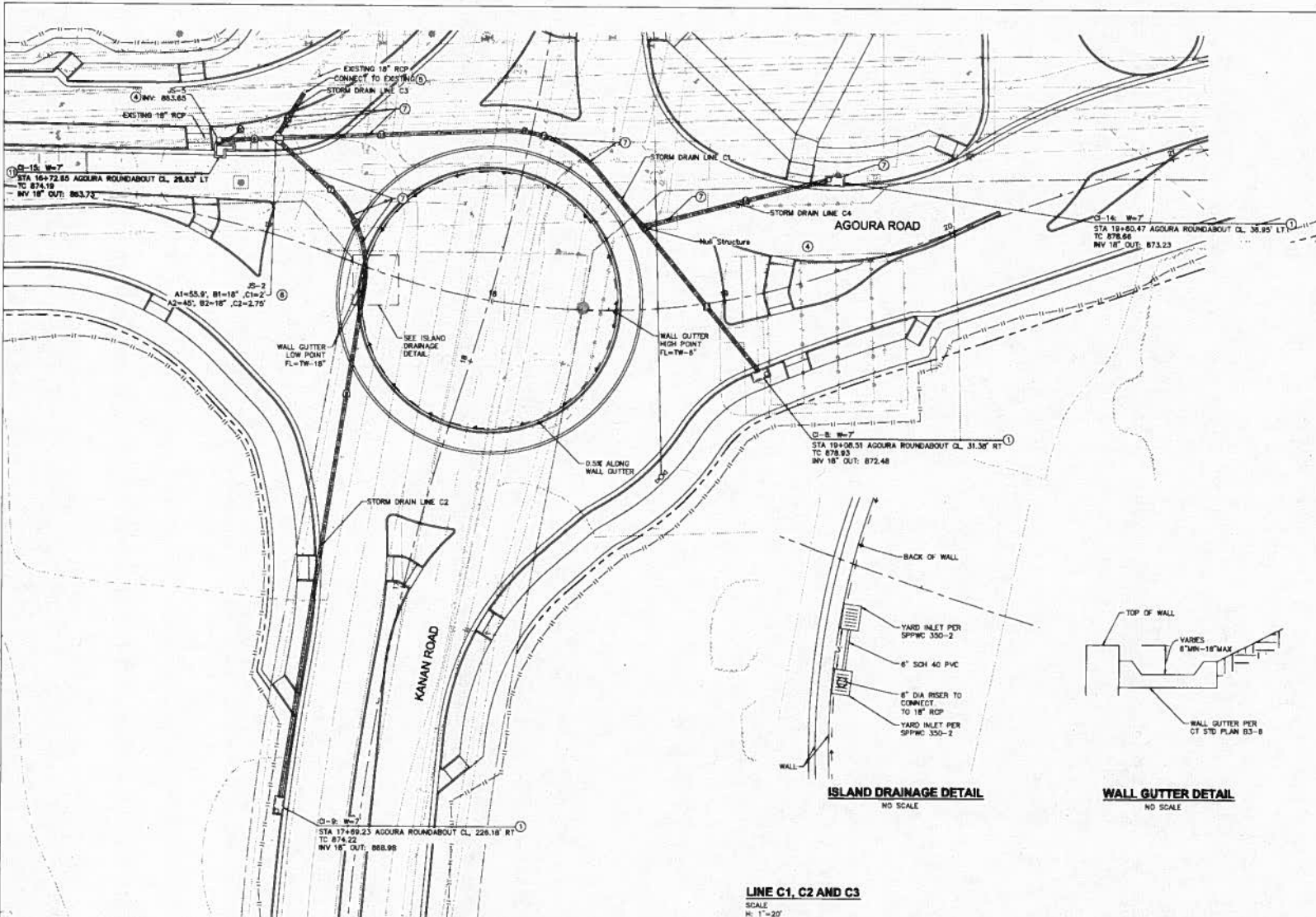
APPROVED BY:

 RAMIRO ADEVA DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

CITY OF

AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 DRAINAGE PLAN AND PROFILE C-13

DRAWN BY: PH/SC CHECKED BY: PH/SC
 SHEET NUMBER: 099083019 SHEET 16 OF 34



- CONSTRUCTION NOTES**
- ① CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 300-3 WITH CATCH BASIN FILTER
 - ② CONSTRUCT CATCH BASIN (W=1.5') PER SPPWC STD. PLAN 302-2 WITH CATCH BASIN FILTER
 - ③ CONSTRUCT SEAM PER SPPWC STD. PLAN 321-1
 - ④ CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 331-3
 - ⑤ CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 305-4
 - ⑥ CONSTRUCTION JUNCTION STRUCTURE PER SPPWC STD. PLAN 340-2
 - ⑦ UTILITY CROSSING
 - ⑧ CONSTRUCTION SNAKE INLET PER DETAIL
 - ⑨ REMOVE STORM DRAIN PIPE/STRUCTURE
 - ⑩ CONSTRUCT CONCRETE SNAKE TO DRAIN TOWARD SNAKE INLET. SIZE TO MATCH EXISTING
 - ⑪ CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 301-3 WITH CATCH BASIN FILTER
- NOTES:**
1. ALL CATCH BASIN CURB INLET STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE CATCH BASIN AT THE FACE OF CURB. ALL OTHER STORM DRAIN STRUCTURES, STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE STRUCTURE.
 2. ALL STATION AND OFFSETS SHOWN IN PROFILE ARE BASED ON INDIVIDUAL PIPE ALIGNMENT.
 3. UTILITY CONFLICTS TO BE FORGOLOVED PRIOR TO CONSTRUCTION AND COORDINATION WITH UTILITY OWNER FOR RELOCATION WILL BE COMPLETED BY THE CITY.

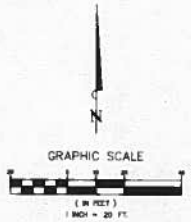
LINE AND CURVE TABLE

NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
6	S 87°25'20" W		21.77'	18" RCP 1350-D
7	N 47°16'25" W		28.32'	18" RCP 1350-D
8	Δ=58° 21' 24"	43.00'	44.25'	18" RCP 1350-D
10	N 31°44'46" E		19.97'	18" RCP 1350-D
11	S 87°43'20" W		94.09'	18" RCP 1350-D
12	Δ=52° 46' 58"	50.00'	46.08'	18" RCP 1350-D
13	N 39°29'27" W		106.97'	18" RCP 1350-D
16	N 75°30'33" E		80.55'	18" RCP 1350-D
20	S 0°55'02" W		1.10'	18" RCP 1350-D

ISLAND DRAINAGE DETAIL
NO SCALE

WALL GUTTER DETAIL
NO SCALE

LINE C1, C2 AND C3
SCALE
1" = 20'



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BRUKATH CHAKRAVARTHY E.I.C. 073628 DATE

REVIEWED BY:

CHANDRANI YAMBABO ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

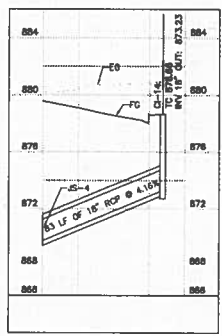
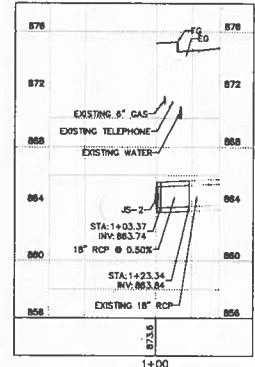
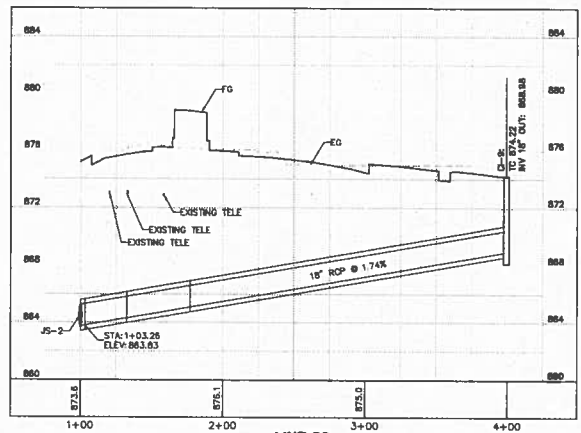
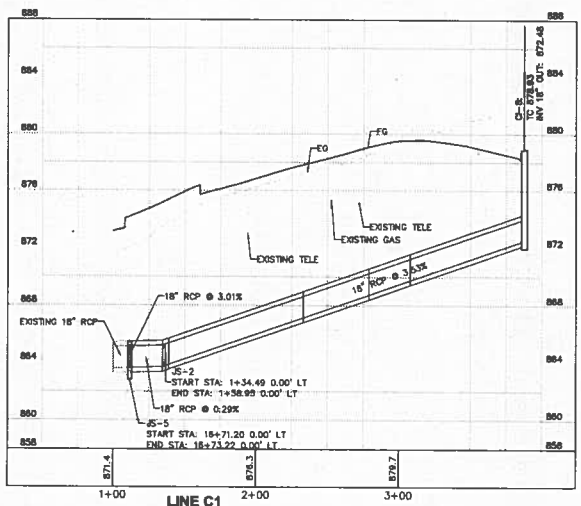
RAMIRO ADEVA DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

CITY OF
AGOURA HILLS


KANAN ROAD AND
AGOURA ROAD ROUNDABOUT
DRAINAGE PLAN C-14

DRAWN BY: RP/NC CHECKED BY: PH/SM DATE: 09/08/2019


SHEET 18 OF 34



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

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DATE: _____

REVIEWED BY:

 CHANSMANE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE: _____

APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE: _____



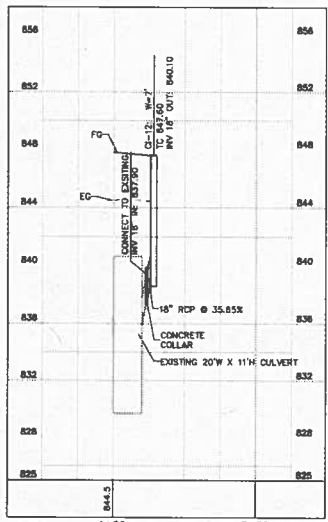
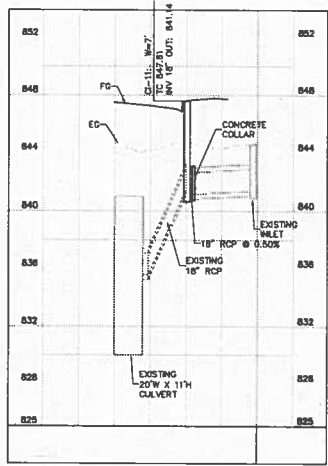
KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 DRAINAGE PROFILE C-15

DRAWN BY: _____
 RP/SC

CHECKED BY: _____
 FH/SM

SHA JOB NUMBER: 099083019

SHEET 17 OF 34

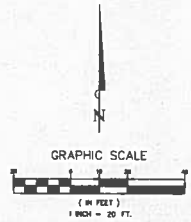
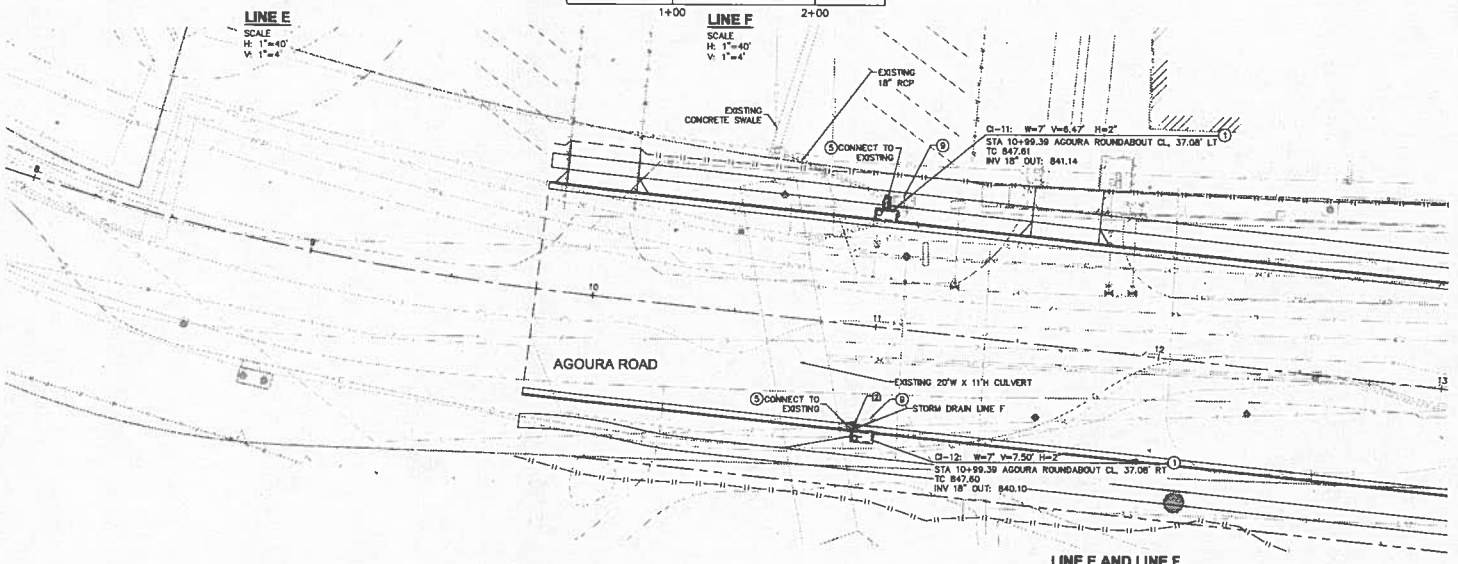


CONSTRUCTION NOTES

- ① CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 300-3 WITH CATCH BASIN FILTER
- ② CONSTRUCT CATCH BASIN (W=3.5') PER SPPWC STD. PLAN 302-2 WITH CATCH BASIN FILTER
- ③ CONSTRUCT SLOAN PER SPPWC STD. PLAN 321-1
- ④ CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 331-3
- ⑤ CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 300-4
- ⑥ CONSTRUCTION JUNCTION STRUCTURE PER SPPWC STD. PLAN 340-2
- ⑦ UTILITY CROSSING
- ⑧ CONSTRUCTION SMALE INLET PER DETAIL
- ⑨ REMOVE STORM DRAIN PIPE/STRUCTURE
- ⑩ CONSTRUCT CONCRETE SMALE TO DRAIN TOWARD SMALE INLET. SIZE TO MATCH EXISTING
- ⑪ CONSTRUCT CATCH BASIN PER SPPWC STD. PLAN 301-3 WITH CATCH BASIN FILTER

NOTES:
 1. ALL CATCH BASIN CURB INLET STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE CATCH BASIN AT THE FACE OF CURB. ALL OTHER STORM DRAIN STRUCTURES, STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE STRUCTURE.
 2. ALL STATION AND OFFSETS SHOWN IN PROFILE ARE BASED ON ORIGINAL PIPE ALIGNMENT.
 3. UTILITY CONFLICTS TO BE POTHOLED PRIOR TO CONSTRUCTION AND COORDINATION WITH UTILITY OWNER FOR RELOCATION WILL BE COMPLETED BY THE CITY.

LINE AND CURVE TABLE				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
2	N 51°23'50" W		3.25'	18" RCP 1.350-D
18	S 0°01'07" E		4.28'	18" RCP 1.350-D



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

 © 2014 KIMLEY-HORN AND ASSOCIATES, INC.
 6800 Overmounth Avenue, Suite 410, Conago Park, CA 91303
 Tel (618) 227-2790 Fax (916) 608-0685

REVIEWED BY:

 CHARRAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER

APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF

AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
 DRAINAGE PLAN AND PROFILE C-16

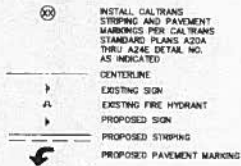
DRAWN BY: RP/SC
 CHECKED BY: PH/SM
 KSA JOB NUMBER: 099083019

SHEET 18 OF 34

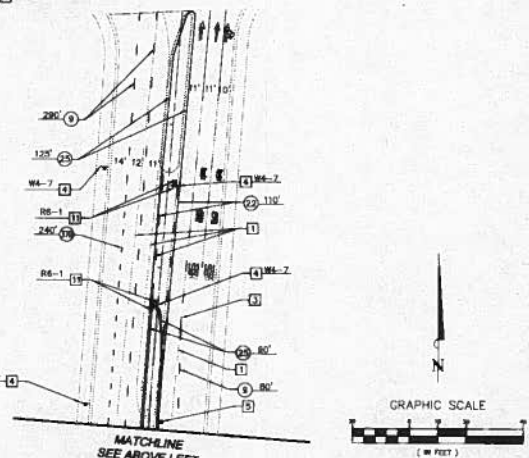
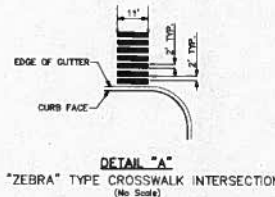
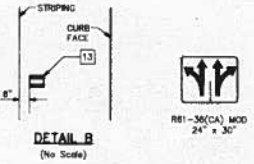
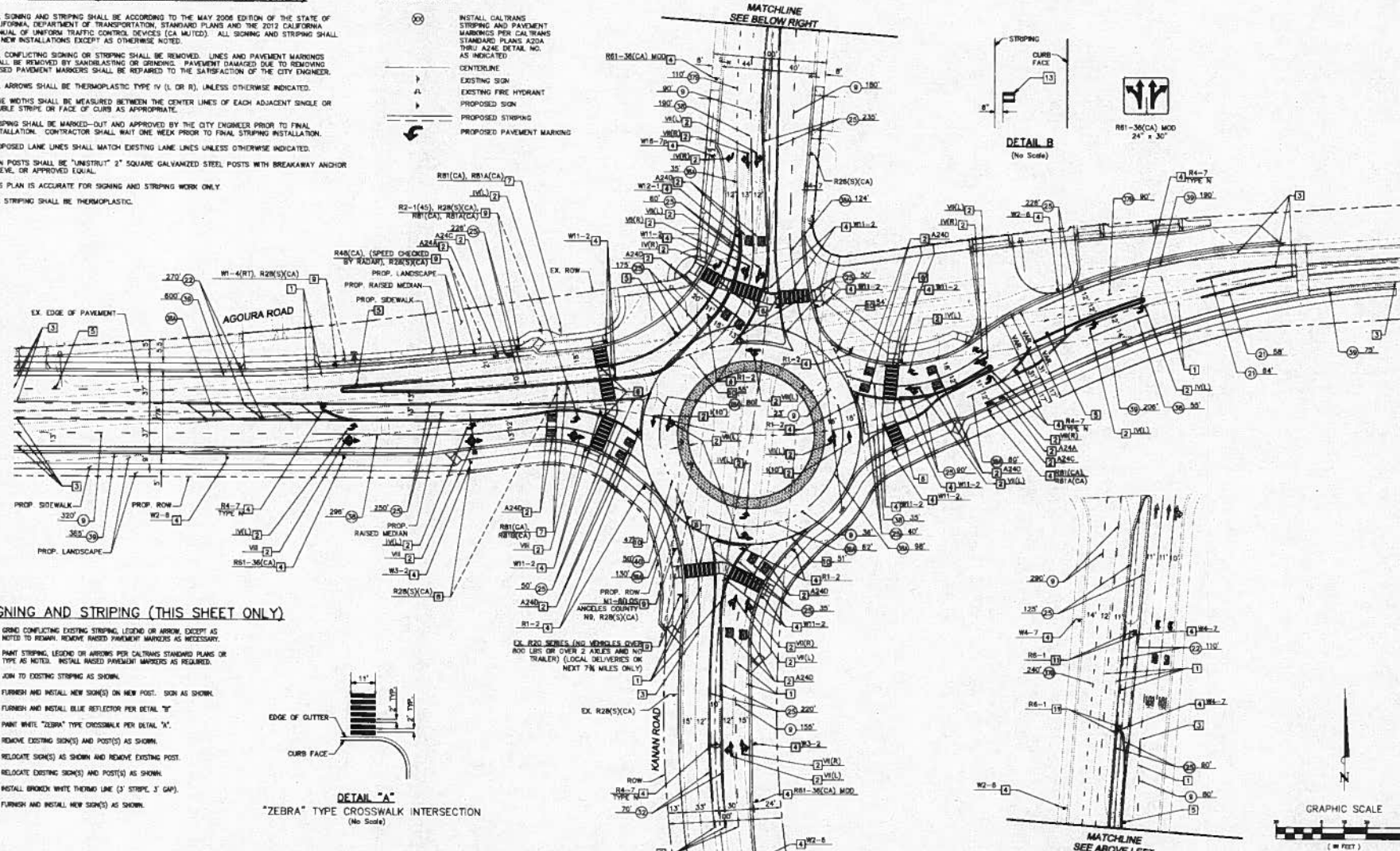
GENERAL NOTES (SIGNING AND STRIPING ONLY)

1. ALL SIGNING AND STRIPING SHALL BE ACCORDING TO THE MAY 2009 EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND THE 2012 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD). ALL SIGNING AND STRIPING SHALL BE NEW INSTALLATIONS EXCEPT AS OTHERWISE NOTED.
2. ALL CONFLICTING SIGNING OR STRIPING SHALL BE REMOVED. LINES AND PAVEMENT MARKINGS SHALL BE REMOVED BY SANDBLASTING OR GRINDING. PAVEMENT DAMAGED DUE TO REMOVING RAISED PAVEMENT MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
3. ALL ARROWS SHALL BE THERMOPLASTIC TYPE IV (L OR R), UNLESS OTHERWISE INDICATED.
4. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTER LINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE ON FACE OF CURBS AS APPROPRIATE.
5. STRIPING SHALL BE MARKED-OUT AND APPROVED BY THE CITY ENGINEER PRIOR TO FINAL INSTALLATION. CONTRACTOR SHALL WAIT ONE WEEK PRIOR TO FINAL STRIPING INSTALLATION.
6. PROPOSED LANE LINES SHALL MATCH EXISTING LANE LINES UNLESS OTHERWISE INDICATED.
7. SIGN POSTS SHALL BE "UNISTRUT" 2" SQUARE GALVANIZED STEEL POSTS WITH BREAKAWAY ANCHOR SLEEVE, OR APPROVED EQUIV.
8. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK ONLY.
9. ALL STRIPING SHALL BE THERMOPLASTIC.

LEGEND



INSTALL CALTRANS STRIPING AND PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A204 THRU A246 DETAIL NO. AS INDICATED



SIGNING AND STRIPING (THIS SHEET ONLY)

1. GRIND CONFLICTING EXISTING STRIPING, LEGEND OR ARROW EXCEPT AS NOTED TO REMAIN. REMOVE RAISED PAVEMENT MARKERS AS NECESSARY.
2. PAINT STRIPING, LEGEND OR ARROWS FOR CALTRANS STANDARD PLANS OR TYPE AS NOTED. INSTALL RAISED PAVEMENT MARKERS AS REQUIRED.
3. JOIN TO EXISTING STRIPING AS SHOWN.
4. FURNISH AND INSTALL NEW SIGN(S) ON NEW POST. SIGN AS SHOWN.
5. FURNISH AND INSTALL BLUE REFLECTOR PER DETAIL "B".
6. PAINT WHITE "ZEBRA" TYPE CROSSWALK PER DETAIL "A".
7. REMOVE EXISTING SIGN(S) AND POST(S) AS SHOWN.
8. RELOCATE SIGN(S) AS SHOWN AND REMOVE EXISTING POST.
9. RELOCATE EXISTING SIGN(S) AND POST(S) AS SHOWN.
10. INSTALL BROKEN WHITE THERMO LINE (3 STRIPE, 3 GAP).
11. FURNISH AND INSTALL NEW SIGN(S) AS SHOWN.



REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

Kimley-Horn and Associates, Inc.
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 6800 Deserainville Avenue, Suite 410, Canoga Park, CA 91303
 Tel (818) 227-2790 Fax (818) 608-0685



REVIEWED BY:
 CHARMINE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE: _____

APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE: _____



KANAN ROAD AND AGOURA ROAD ROUNDABOUT
 SIGNING AND STRIPING PLAN SN-1

DRAWN BY: NP/SC
 CHECKED BY: FH/SM
 SCHA NUMBER: 099083019

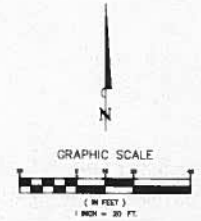
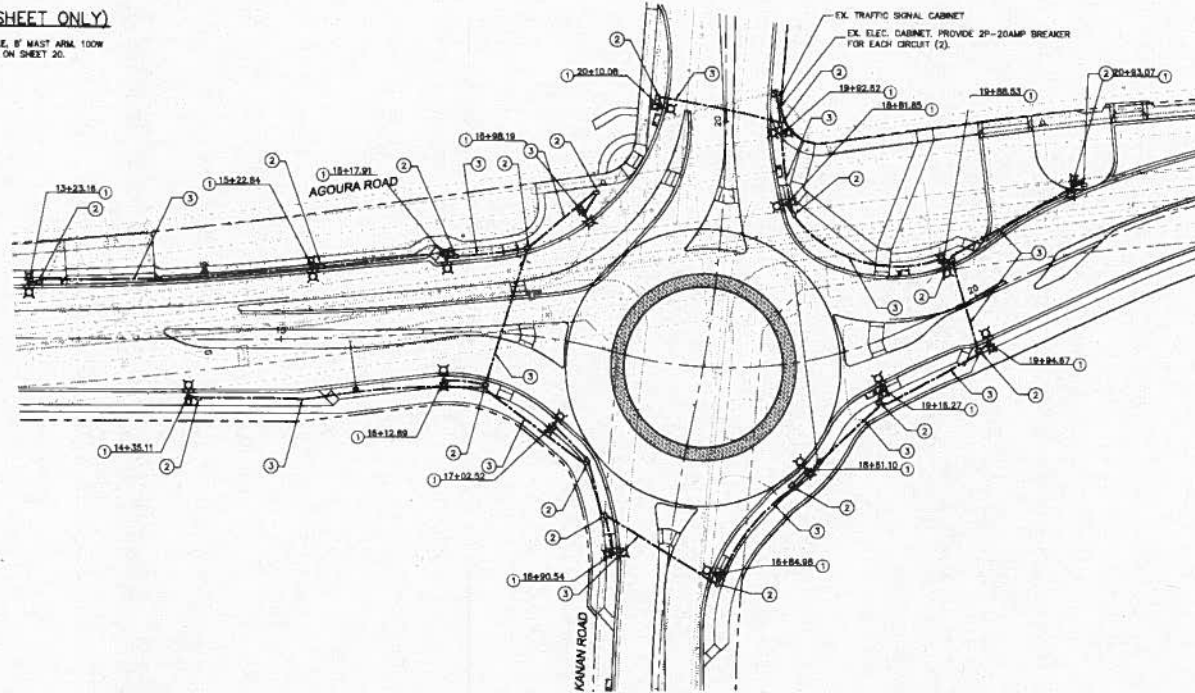
SHEET 19 OF 34



GENERAL NOTES (STREET LIGHTING ONLY)

1. ALL CONDUIT SHALL BE PLACED BEHIND CURB EXCEPT AT INTERSECTIONS.
2. ALL INSTALLATION SHALL CONFORM TO THE GENERAL NOTES IN THE CITY OF AGOURA HILLS STANDARD PLANS.

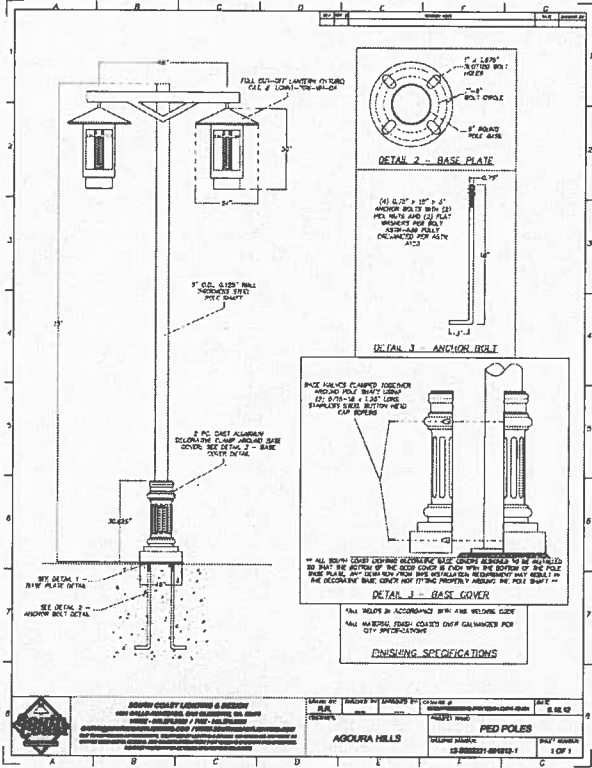
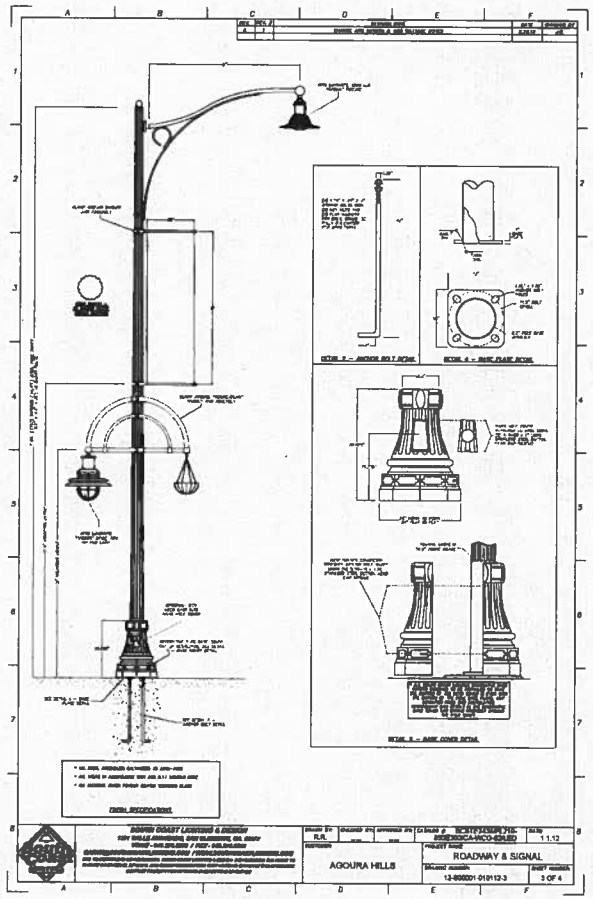
ELECTRICAL CONSTRUCTION NOTES (THIS SHEET ONLY)

- ① CONSTRUCT DECORATIVE STREET LIGHT AND FOUNDATION WITH 30' HEIGHT POLE, 8' MAJESTY ARM, 100W 18000 SERIES LUMINAIRE AND 75W PENDANT LUMINAIRE PER DETAILS "A"- "D" ON SHEET 20.
- ② CONSTRUCT #6 PULL BOX (25" X 15").
- ③ FURNISH AND INSTALL 2" SLM 40 PVC CONDUIT -2#6 AND 1#10 GROUND.

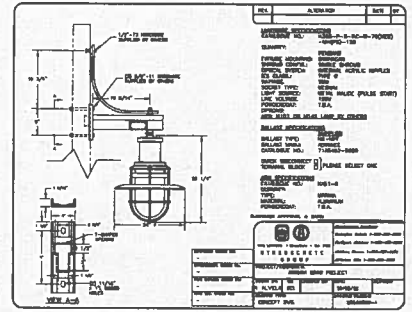
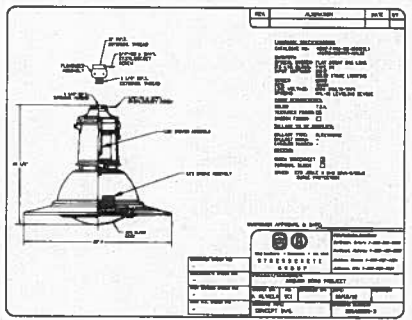


REV		SYMBOL	DESCRIPTION OF CHANGE	REV	DATE
PREPARED BY:  Kimley-Horn and Associates, Inc. © 2014 KIMLEY-HORN AND ASSOCIATES, INC. 6800 DeSarmouth Avenue, Suite 410, Concord Park, CA 91303 Tel (916) 227-2790 Fax (916) 608-0855					
REVIEWED BY: CHARMINE YAMBO ASSOCIATE CIVIL ENGINEER DATE:				APPROVED BY: RAMIRO ADEVA DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE:	
CITY OF  AGOURA HILLS			KANAN ROAD AND AGOURA ROAD ROUNDABOUT STREET LIGHTING PLAN SL-1		
DRAWN BY: RP/JC		CHECKED BY: TH/JM		KNA JOB NUMBER: 099083019 SHEET 20 OF 34	

100% DRAFT SUBMITTAL - KANAN ROAD AND AGOURA ROAD ROUNDABOUT - CITY OF AGOURA HILLS



DETAIL "B"
70W LUMINAIRE
(No Scale)



REV	SYMBOL	DESCRIPTION OF CHANGE	PC	DATE

PREPARED BY:

Kimley-Horn and Associates, Inc.
2014 KIMLEY-HORN AND ASSOCIATES, INC.
6500 Overland Avenue, Suite 410, Canoga Park, CA 91303
Tel (818) 227-2790 Fax (818) 608-0885

PROJECT NO. 13-00001-01(1)12-3 SHEET NUMBER 3 OF 4

AGOURA HILLS ROADWAY & SIGNAL



REVIEWED BY:

CHARMAINE YAMBAO
ASSOCIATE CIVIL ENGINEER

DATE

APPROVED BY:

RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

DATE

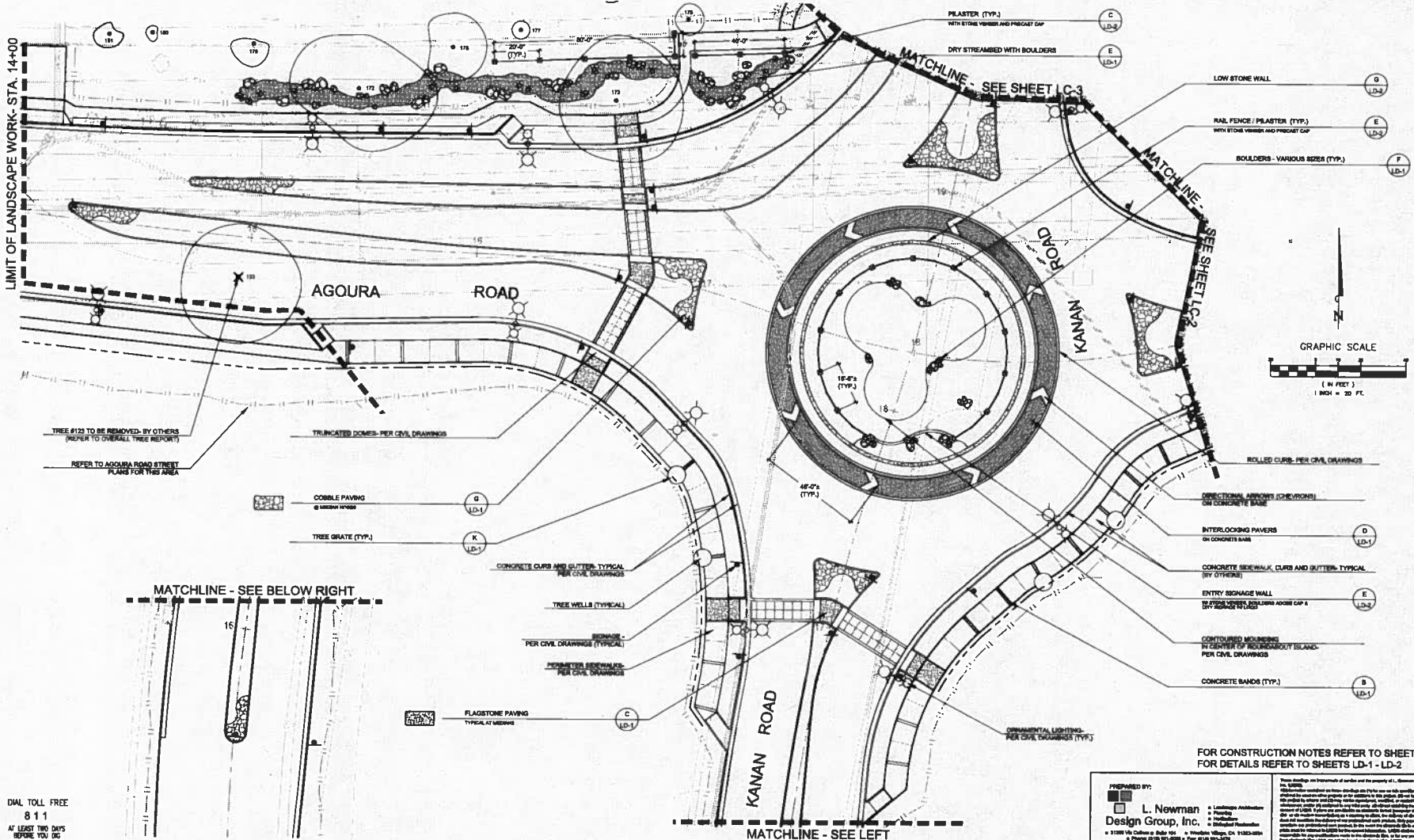
CITY OF

AGOURA HILLS

KANAN ROAD AND AGOURA ROAD ROUNDABOUT
STREET LIGHTING DETAIL SL-2

DRAWN BY: RP/SC
CHECKED BY: FH/SM
KIA JOB NUMBER: 099083019

SHEET 21 OF 34



TREE #123 TO BE REMOVED BY OTHERS (REFER TO OVERALL TREE REPORT)

REFER TO AGOURA ROAD STREET PLANS FOR THIS AREA

FOR CONSTRUCTION NOTES REFER TO SHEET LC-3
FOR DETAILS REFER TO SHEETS LD-1 - LD-2

811
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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED BY:
L. Newman
Design Group, Inc.
Landscape Architecture
Interior Architecture
Architectural Drafting
11188 Via Caliente # Suite 104 • Woodland Hills, CA 91367-3854
Phone (818) 871-4224 • Fax (818) 871-3472
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REVIEWED BY:
CHARMAINE YAMBAO
ASSOCIATE CIVIL ENGINEER
DATE

APPROVED BY:
RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
DATE

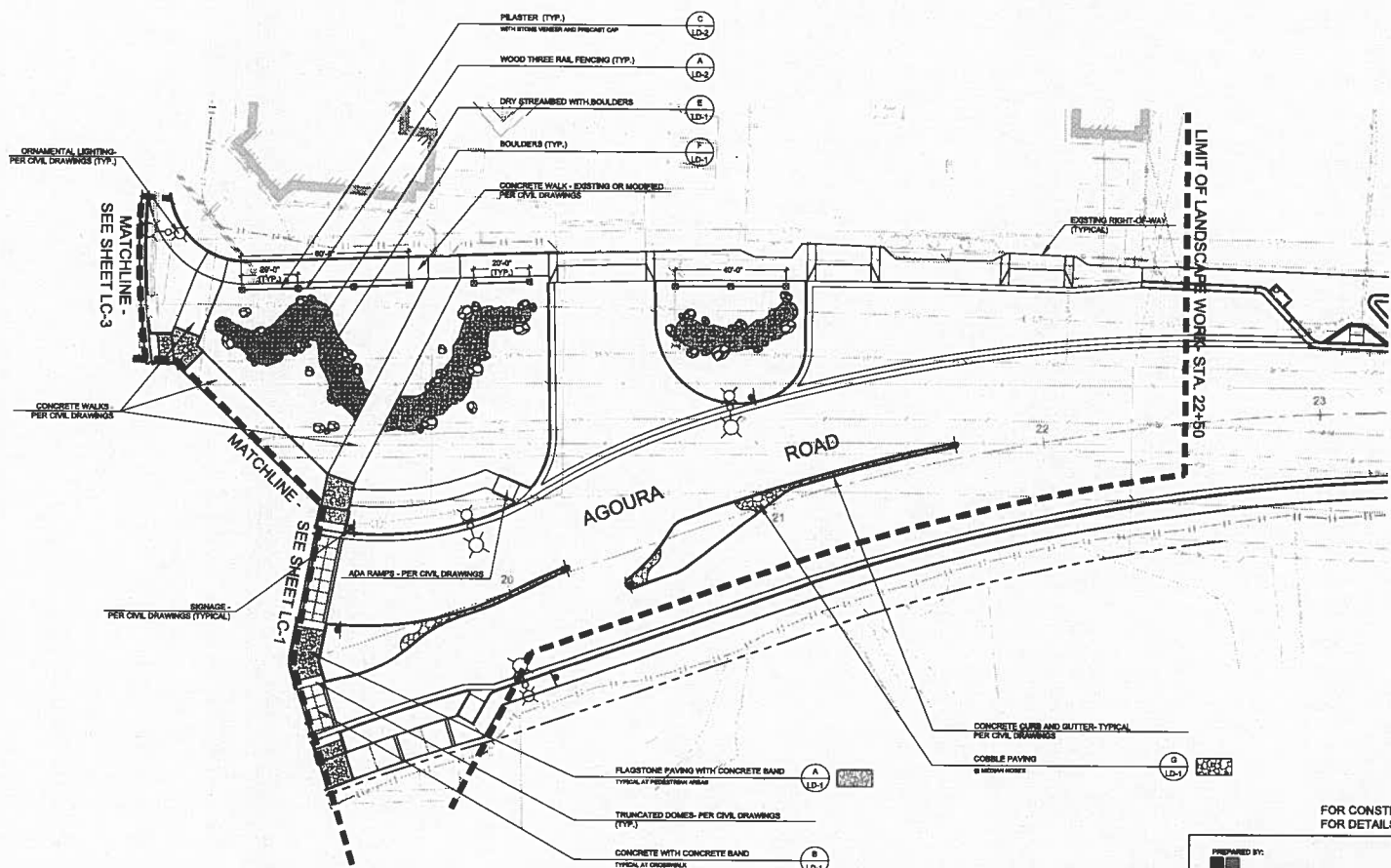


KANAN ROAD AND AGOURA ROAD ROUNDABOUT
CONSTRUCTION PLAN

LC-1 OF 3

DRAWN BY: ML
CHECKED BY: BB/RLB
TWA JOB NUMBER: 099083019

SHEET 22 OF 34



FOR CONSTRUCTION NOTES REFER TO SHEET LC-3
FOR DETAILS REFER TO SHEETS LD-1 - LD-2

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PREPARED BY:
L. Newman Design Group, Inc.
Landscape Architect
Planning
Site/Civil/Construction
21584 Via Caliente • Suite 104 • Yorba Linda, CA 91323-8854
Phone: (714) 911-8888 • Fax: (714) 911-8118
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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

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Kimley-Horn and Associates, Inc.
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6500 Downsouth Avenue, Suite 410, Concord Park, CA 91303
Tel: (618) 227-2700 Fax: (618) 608-0865

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CHARMAINE YAMBAO
ASSOCIATE CIVIL ENGINEER
DATE

APPROVED BY:
RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
DATE



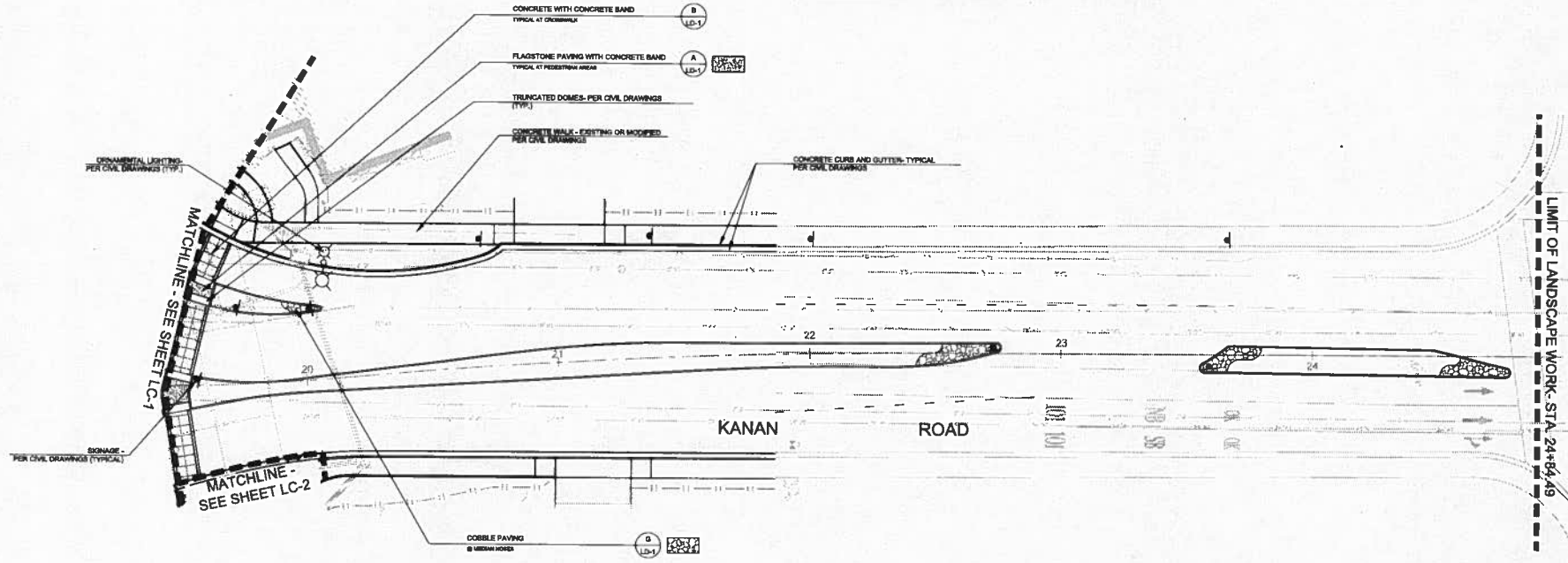
FOR CONSTRUCTION - KANAN ROAD AND AGOURA ROAD ROUNDABOUT
CONSTRUCTION PLAN
LC-2 OF 3

DRAWN BY: ML
CHECKED BY: BB/PLB
DATE: 09/08/2019
SHEET 23 OF 34

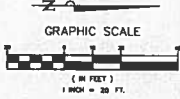
CONSTRUCTION NOTES

1. ALL LAYOUT DIMENSIONS, CONCRETE PATTERNS, STONE PAVING, AND COLORS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ALL PLAN DISCREPANCIES AS THEY RELATE TO FIELD CONDITIONS.
3. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. ALL HARDSCAPE SURFACES TO HAVE A MIN. 1/2% TO MAX. 2% GROSS SLOPE.
4. CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 2800 P.S.I. AT TWENTY-THREE (23) DAYS.
5. CONCRETE TO BE PLUMB AND TRUE UNLESS OTHERWISE NOTED OR INDICATED.
6. CONSTRUCTION TO BE PLUMB AND TRUE UNLESS OTHERWISE NOTED OR INDICATED.
7. PRIOR TO LAYOUT OF UNDERGROUND IMPROVEMENTS, REFER TO PLANTING PLANS FOR TREE LOCATIONS, STAKE TREES AND OUTLINE SPECIFIED BOX SIZE, ROUTE UNDERGROUND DRAINAGE, ELECTRICAL, AND IRRIGATION PIPING OUTSIDE EXCAVATION REQUIRED FOR TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ALL DAMAGE TO CURB GUTTER AND UTILITIES IN THE CONSTRUCTION AREAS.
9. CONTRACTOR TO ALLOW FOR LABOR AND MATERIALS IN HIS CONTRACT FOR ANY ADDITIONAL DRAINAGE MATERIAL DEEMED NECESSARY AT TIME OF INSTALLATION. THIS SHALL INCLUDE DRAINS, PIPE, CURB, WRINK, ETC.
10. WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
11. CONFORM TO LATEST UNIFORM BUILDING CODE AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF THE CONTRACT DOCUMENTS ARE INTENDED TO BE IN VIOLATION OF CODES. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT.
12. COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING AND INTERFACING WORK OF OTHER TRADES.

13. EXISTING UTILITIES SHOWN ON PLANS REPRESENT LOCATIONS OF UTILITIES THAT MAY OR MAY NOT HAVE BEEN INSTALLED. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.
14. ALL MATERIALS: CONCRETE FINISHES, POURED-IN-PLACE CAPS, VENEERS, CONCRETE BLOCK, PRECAST CONCRETE CAPS, IRON FENCING, CONCRETE RAIL FENCING, ETC. - TO BE APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE (2) FINISHED 2 X 2 CONCRETE SAMPLES FROM SEPARATE BATCHES OF EACH CONCRETE FROM TO THE LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION. ALL CONCRETE SAMPLES SHALL BE POURED 72 HOURS PRIOR TO SUBMITTAL.
15. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ALL PLAN DISCREPANCIES AS THEY RELATE TO FIELD CONDITIONS.
16. ALL WALL AND FENCE LAYOUTS TO BE SURVEYED, CALLED AND THEN STAKED BY THE ENGINEERS SURVEY CREW. ALL LAYOUTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO STARTING CONSTRUCTION.
17. ALL GRADING AND DRAINAGE RELATING TO ROADWAYS, MANUFACTURED SLOPES, ETC., PER THE CIVIL ENGINEERING DRAWINGS, (NOT A PART OF THIS DOCUMENT)
18. ALL LIGHTING PER CIVIL DRAWINGS.
19. ALL GRADING AND DRAINAGE PER CIVIL DRAWINGS.
20. DEMOLITION OF ADDITIONAL NON-OAK TREES (BY OTHERS).



FOR CONSTRUCTION NOTES REFER TO SHEET LC-3
FOR DETAILS REFER TO SHEETS LD-1 - LD-2



PREPARED BY:
 L. Newman
 Design Group, Inc.
 11200 Via Caliente # Suite 104 • Valencia, CA 91355-0004
 Phone (916) 875-8888 • Fax (916) 875-8875
 e-mail: lnewman@lnewman.com • Website: www.lnewman.com
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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

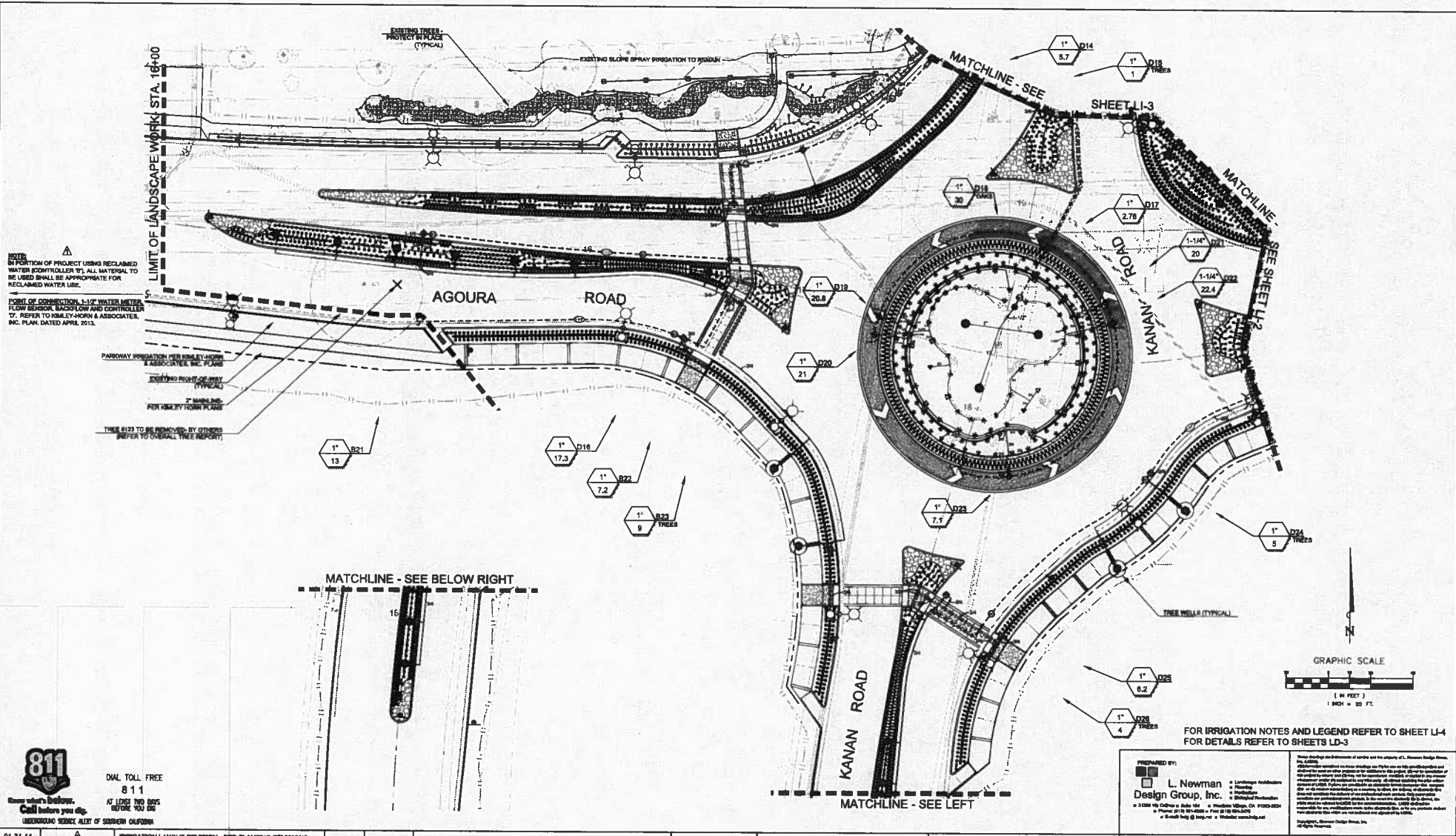
PREPARED BY:

Kimley-Horn and Associates, Inc.
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 8500 Owensmouth Avenue, Suite 410, Canoga Park, CA 91303
 Tel: (818) 227-2790 Fax: (818) 808-0885

REVIEWED BY:
 CHARMANE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE: _____
 APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE: _____



FOR CONSTRUCTION - KANAN ROAD AND AGOURA ROAD ROUNDABOUT
CONSTRUCTION PLAN
 LC-3 OF 3
 DRAWN BY: ML
 CHECKED BY: MIA JEN
 DATE: 09/08/19
 SHEET 24 OF 34



IN PORTION OF PROJECT USING RECLAIMED WATER (CONTROLLER W/ ALL MATERIAL TO BE USED SHALL BE APPROPRIATE FOR RECLAIMED WATER USE.
 POINT OF CONNECTION 1/2" WATER METER, FLOW SENSOR, BACKFLOW AND CONTROLLER. REFER TO KIMLEY-HORN & ASSOCIATES, INC. PLAN DATED APRIL 2013.

PARKWAY INFORMATION PER KIMLEY-HORN & ASSOCIATES, INC. PLANS
 20' MINIMUM RIGHT-OF-WAY (TYPICAL)
 7" MARKING FOR KIMLEY-HORN PLANS
 THESE #122 TO BE REMOVED BY OTHERS (REFER TO OVERALL TREE REPORT)



FOR IRRIGATION NOTES AND LEGEND REFER TO SHEET LI-4 FOR DETAILS REFER TO SHEETS LI-3

PREPARED BY:
 L. Newman
 Design Group, Inc.
 2188 W. Colton - Suite 104 • Thousand Oaks, CA 91320-2824
 Phone: 818 361-0822 • Fax: 818 361-0827
 • Email: lny@lndg.com • Website: lndg.com

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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE
01-31-14	▲	IRRIGATION LAYOUT REVISION - PER PLANTING REVISIONS		

PREPARED BY:

Kimley-Horn and Associates, Inc.
 2013 KIMLEY-HORN AND ASSOCIATES, INC.
 6500 Deansmouth Avenue, Suite 410, Canoga Park, CA 91303
 Tel (818) 227-2790 Fax (818) 606-0885

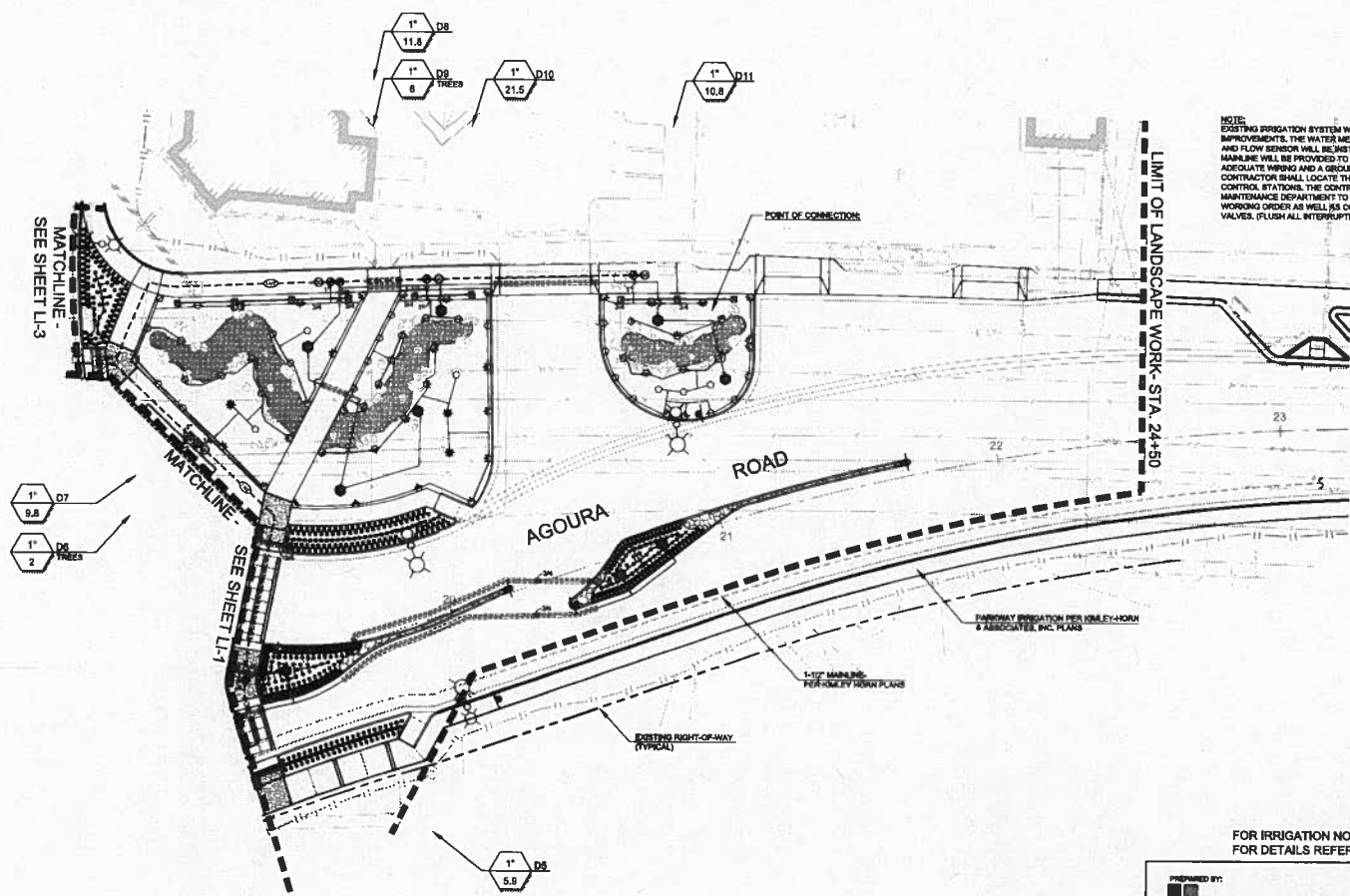
REVIEWED BY:
 CHARMAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE _____

APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE _____

CITY OF
AGOURA HILLS

KANAN ROAD AND
 AGOURA ROAD ROUNDABOUT
IRRIGATION PLAN
 LI-1 OF 4

DRAWN BY: M.
 CHECKED BY: RB/MB
 DATE: _____
 PLAN NUMBER: 099083019
 SHEET 25 OF 34



NOTE:
 EXISTING IRRIGATION SYSTEM WILL BE IN PLACE AT THE TIME OF THOSE IMPROVEMENTS. THE WATER METER, RT CONTROLLER, MASTER CONTROL VALVE AND FLOW SENSOR WILL BE INSTALLED DOWN THE STREET BY OTHERS. THE MAINLINE WILL BE PROVIDED TO THE POINT OF CONNECTION SHOWN WITH ADEQUATE WIRING AND A CIRCUIT WIRE TO FACILITATE THIS AREA. THE CONTRACTOR SHALL LOCATE THE MAINLINE AND INTERCONNECT THE WIRES FOR THE CONTROL STATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY MAINTENANCE DEPARTMENT TO ASSURE THE CONNECTIONS AND NEW SYSTEM IS IN WORKING ORDER AS WELL AS COMMUNICATION BETWEEN THE CONTROLLER AND VALVES, FLUSH ALL INTERRUPTED SYSTEMS AND NEW PRIOR TO RUNNING SYSTEM.

POINT OF CONNECTION, 1-1/2" WATER METER, FLOW SENSOR, SPOOLFLOW AND CONTROLLER TO REFER TO KIMLEY-HORN & ASSOCIATES, INC. PLAN, DATED APRIL 2013.

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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE
01-31-14	A	IRRIGATION LAYOUT REVISION - PER PLANTING REVISIONS		

PREPARED BY:

Kimley-Horn and Associates, Inc.
 2013 KIMLEY-HORN AND ASSOCIATES, INC.
 5800 Overmountain Avenue, Suite 410, Concord Park, CA 91303
 Tel (916) 227-2790 Fax (916) 608-0885

REVIEWED BY:
 CHARMANNE YAMBAO DATE
 ASSOCIATE CIVIL ENGINEER

APPROVED BY:

 RAMIRO ADEVA DATE
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



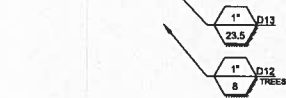
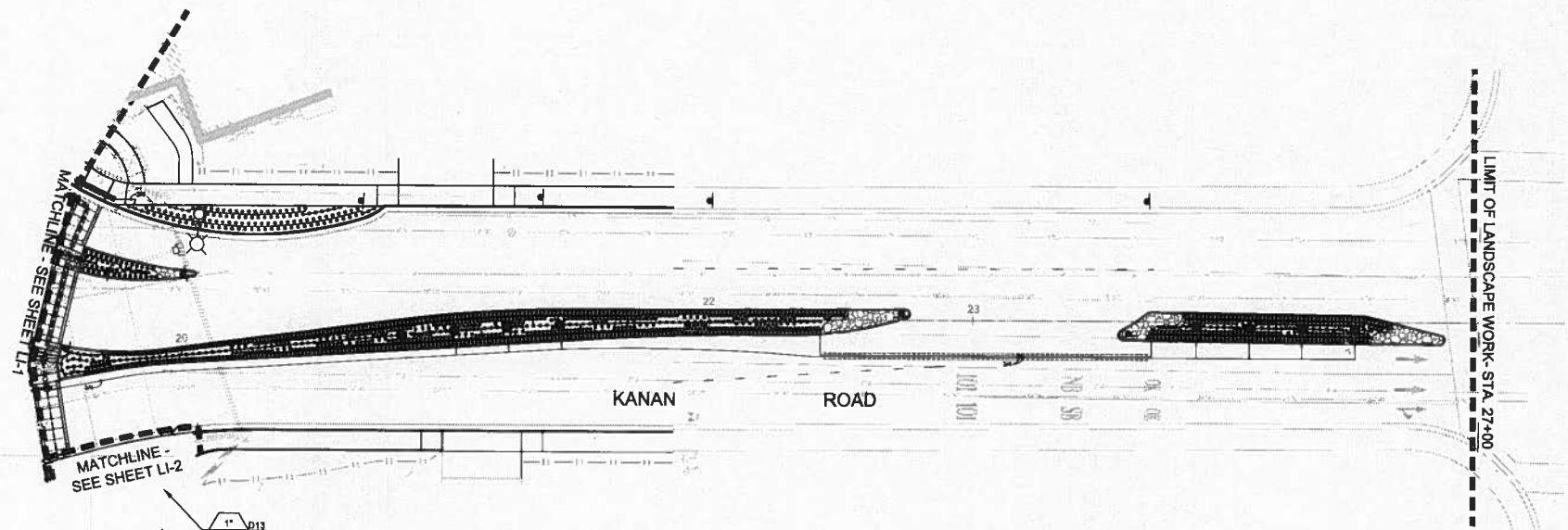
PREPARED BY:

L. Newman Design Group, Inc.
 a Landscape Architecture
 a Planning
 a Engineering
 a Geotechnical Remediation
 21281 Via Colinas # Suite 100 • Moorpark, CA 91326-3524
 • Phone (818) 875-0288 • Fax (818) 875-0292
 • Email: info@lndg.com • Website: www.lndg.com

KANAN ROAD AND AGOURA ROAD ROUNDABOUT
IRRIGATION PLAN

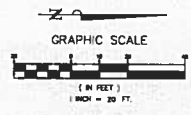
DRAWN BY: ML
 CHECKED BY: BS/RLB
 DATE: 09/08/2013

LI-2 OF 4
 SHEET 26 OF 34



FOR IRRIGATION NOTES AND LEGEND REFER TO SHEET LI-4
FOR DETAILS REFER TO SHEETS LD-3

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Know what's below.
Call before you dig.
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ORDERLAND SERVICE AREAS OF SOUTHERN CALIFORNIA



PREPARED BY:
L. Newman Design Group, Inc.
Landscape Architecture
Planning
Water/Wastewater
31989 Via Caliente, Suite 104 • Western Village, CA 91362-3024
Phone: (916) 931-8888 • Fax: (916) 931-2475
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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE
01-31-14	A	IRRIGATION LAYOUT REVISION - PER PLANTING REVISIONS		

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REVIEWED BY:
CHARMAINE YAMBAO
ASSOCIATE CIVIL ENGINEER
DATE _____
APPROVED BY:
RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
DATE _____



FOR KANAN ROAD AND AGOURA ROAD ROUNDABOUT
IRRIGATION PLAN
L-3 OF 4
DRAWN BY: M.
CHECKED BY: SD/RJD
DATE: 09/08/2019
SHEET 27 OF 34

Kanan Rd. and Agoura Rd. Roundabout

WATER BUDGET CALCULATIONS
(Based upon Civil Engineer's Site Plan)

PREPARED FOR:
Stanley-Horn & Associates
8020 Devonwood Ave, Suite 104
Channahon, IL 61303

PREPARED BY:
L. Newman Design Group, Inc.
31320 Via Collins, Suite 104
Woodside Village, CA 91385-9245

DATE: January 17, 2014
LINDO P 2247-04

HYDROLOGIC INFORMATION TABLE

Table with 6 columns: Hydrology, Main Water Type, Plant Water (PP), Irrigation Coefficient (Kc), Hydrologic Area (HA), and PP x HA x Kc. Rows include Lawn, Turf, and Other categories.

EQUATIONS & DEFINITIONS

MAWA (Maximum Applied Water Allowance) = (ETa)(Kc) / (R x LA) + (R x LA) x ETa
ETWU (Estimated Total Water Usage) = (ETa)(Kc) / (R x LA) + (R x LA) x ETa

LEGEND

Legend table with 2 columns: Symbol and Description. Includes ETa, ET, HA, LA, and SLA.

REFERENCE EVAPOTRANSPIRATION (ETa) TABLE (Cowan-Upton Climate)

Table with 12 columns: Month (JAN to DEC) and various ETa values for different crop coefficients.

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

MAWA = (ETa)(Kc) / (R x LA) + (R x LA) x ETa
MAWA = (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18
MAWA = 125,500 GPD

ESTIMATED TOTAL WATER USAGE (ETWU)

ETWU = (ETa)(Kc) / (R x LA) + (R x LA) x ETa
ETWU = (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18
ETWU = 125,500 GPD

MAWA / ETWU = 1.000

ACTUAL APPLIED WATER ALLOWANCE

1/4 MAWA = (125,500 - ETWU) / MAWA = 100
1/4 MAWA = (125,500 - 125,500) / 125,500 = 0.000
1/4 MAWA = 0.000

ESTIMATED TOTAL WATER USAGE (ETWU) -

ETWU (Estimated Total Water Usage)
ETWU = (ETa)(Kc) / (R x LA) + (R x LA) x ETa

ETWU (Lawn) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year
ETWU (Turf) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year
ETWU (Other) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year

ETWU (Total) = 334,512 gallon/year

ETWU (Lawn) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year
ETWU (Turf) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year
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ETWU (Other) (3.18)(0.82) / (3.0 x 40,300) + (3.0 x 40,300) x 3.18 = 111,504 gallon/year

REFERENCES

- 1. Caltrans (California Irrigation Management Information System) www.calsystems.com
2. State of California Department of Water Resources (California Code of Regulations, Title 23, Division 690.616, Field Water Efficiency Landmark Guidelines) www.water.state.ca.us/irrigation/irrigation_guidelines.htm
3. WUCOLS (Water Use Classification of Landscape Settings) www.wucols.com

IRRIGATION NOTES:

- 1. ALL MAIN LINE, LATERAL PIPING AND CONTROL WIRES, UNDER PAVING, SHALL BE IN SEPARATE SLEEVES. MAIN LINE AND LATERAL SLEEVES SHALL BE A MINIMUM OF 4" FOR PIPING LARGER THAN 2". THE SLEEVES SHALL BE TWICE THE PIPE DIAMETER. WIRE SLEEVING SHALL BE 2" OR LARGER TO ACCOMMODATE CONTROL AND COMMON WIRES. SLEEVES UNDER ROADWAYS SHALL BE 30" DEEP; BURY ALL OTHER MAIN LINE 18" DEEP AND ALL LATERALS 12" DEEP, EXCEPT AS NOTED WITHIN SLEEVES. THESE DEPTHS ARE MINIMUMS.
2. AFTER MAIN LINE HAS BEEN INSTALLED AND PRIOR TO COVERING THE MAIN LINE TRENCH, A PRESSURE TEST SHALL BE CONDUCTED. ALL PRESSURE LINES SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE AT 180 PSI FOR A PERIOD NOT LESS THAN 24 HOURS. IF LEAKS DEVELOP, THE JOINTS SHALL BE REPLACED AND THE TEST REPEATED UNTIL THE ENTIRE MAIN LINE IS PROVEN TO BE WATER TIGHT. CERTIFICATION, IN WRITING, SHALL BE SUBMITTED TO THE OWNER VERIFYING THAT THE TEST HAS BEEN CONDUCTED SUCCESSFULLY.
3. ALL HEADS ADJACENT TO SIDEWALKS, DRIVEWAYS, AND ALL TURF HEADS SHALL BE ATTACHED TO POP-UP BODIES. TURF TO BE 4" POP-UPS AND SHRUB AREAS TO BE 6" POP-UPS IN PLANTERS LESS THAN 6" IN WIDTH AND 12" POP-UPS IN PLANTERS GREATER THAN 6" IN WIDTH. ALL OTHER SHRUB HEADS TO BE ON RISERS 12" ABOVE FINISH GRADE.
4. THE SPRINKLER SYSTEM DESIGN IS BASED ON A DESIGN PRESSURE OF 20 PSI AND A MAXIMUM FLOW OF 30 GPM. THE IRRIGATION CONTRACTOR SHALL VERIFY THE PRESSURE AND FLOW PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE DESIGN PRESSURE SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT WITHIN 24 HOURS AND PRIOR TO COMMENCEMENT OF ANY WORK. IF IT IS FOUND THAT THE PRESSURE AND/OR FLOW DEVIATE FROM THE DESIGN AND THE CONTRACTOR COMMENCES WORK WITHOUT NOTIFYING THE LANDSCAPE ARCHITECT, ALL CORRECTIVE ACTION NECESSARY TO ESTABLISH A FUNCTIONAL IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION, A COVERAGE TEST SHALL BE CONDUCTED WITH THE LANDSCAPE ARCHITECT PRESENT.
6. NOTE FOR OWNER: IRRIGATION CONTRACTOR TO HAND TRENCH UNDER ALL EXISTING OAKS AND SPECIMEN TREES AS DESIGNATED TO AVOID OAK ROOT IMPACT. KEEP WIRES AND LATERAL LINES AS CLOSE TO CURB OR HARDSCAPE AS POSSIBLE. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE OAK TREE PERMIT.

LAS VIRGENES MUNICIPAL WATER DISTRICT RECYCLED WATER SERVICE GENERAL NOTES (WHERE APPLICABLE)

- A. THESE RECYCLED WATER SERVICE GENERAL NOTES MUST APPEAR ON ALL ORIGINAL AND "AS-BUILT" COPIES OF THE IRRIGATION SYSTEM PLANS.
B. THE RECYCLED WATER SYSTEM SHALL MEET THE AMERICAN WATER WORKS ASSOCIATION "GUIDELINES TO DISTRIBUTION OF NON-POTABLE WATER".
C. A SET OF ORIGINAL IRRIGATION SYSTEM DESIGN DRAWINGS MUST BE SUPPLIED TO THE LAS VIRGENES WATER DISTRICT BEFORE SYSTEM CONSTRUCTION BEGINS.
D. A SET OF "AS-BUILT" IRRIGATION SYSTEM DRAWINGS MUST BE SUPPLIED TO THE LAS VIRGENES WATER DISTRICT UPON COMPLETION OF THE INSTALLATION.
E. THE LAS VIRGENES WATER DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF CONSTRUCTION OR PIPELINE INSTALLATION BY CALLING (818) 261-2100, TO SCHEDULE AN INSPECTION. INSPECTION MUST BE MADE BEFORE TRENCHING FOR BELOW GROUND PIPING ARE BACK-FILLED.
F. PIPE MATERIAL.
G. ALL ON-SITE POTABLE WATER LINES MUST BE COPPER, AND IDENTIFIED WITH A WARNING TAPE WITH A BLUE OR GREEN BACKGROUND AND THE WORDS: "CAUTION: POTABLE WATER LINE".
H. ALL NEWLY CONSTRUCTED, BURIED RECYCLED WATER DISTRIBUTION PIPING, INCLUDING MAIN AND LATERAL LINES, VALVES AND OTHER APPURTENANCES SHOULD BE COLOR EXTENDED PURPLE, PAINT ONE S.I. 2, AND EMBOSSED OR INTEGRALLY STAMPED/DIMAGED BY THE MANUFACTURER EVERY 24 INCHES ON TWO (2) SIDES: "CAUTION: RECYCLED WATER - DO NOT DRINK". DISTRIBUTION PIPING AND LATERAL LINES SHALL BE MARKED EVERY 24 INCHES ON OPPOSITE SIDES: "CAUTION: RECYCLED WATER - DO NOT DRINK".
I. WHEN, DUE TO PREEXISTING CONDITIONS, RECYCLED AND POTABLE WATER LINES ARE OF THE SAME MATERIAL AND COLOR, AS IN THE CASE OF SITES WHERE THE IRRIGATION SYSTEM WAS CONVERTED TO RECYCLED WATER USE, WHEN THE POTABLE SYSTEM IS EXPANDED, COPPER WILL BE USED.
J. ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN A TEN (10) FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSSES, THE RECYCLED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER PIPING TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF ONE (1) FOOT, AND SHALL BE INSTALLED IN A PVC CLASS 200 PIPE SLEEVE THAT PROVIDES A MINIMUM OF FIVE (5) FEET ON EITHER SIDE OF THE POTABLE WATER PIPING.
K. SIGN AGE INDICATING THAT RECYCLED WATER IS BEING USED FOR IRRIGATION SHALL BE LOCATED AT POINTS WHERE THE PUBLIC MAY ENTER THE USE AREA.
L. ALL ABOVE GROUND RECYCLED WATER FACILITIES (CONTROLLERS, VALVES, RISERS, HEADS, QUICK COUPLERS, ETC.) MUST HAVE IDENTIFYING COLORS AND LABELS FOR RECYCLED WATER.
M. HOSE BIBS ARE NOT PERMITTED ON THE RECYCLED WATER IRRIGATION SYSTEM. QUICK COUPLERS SHALL BE USED IF HOSE CONNECTIONS ARE NECESSARY.
N. BACK FLOW PREVENTION DEVICES SHALL NOT BE INCLUDED IN NEWLY CONSTRUCTED RECYCLED WATER SYSTEMS UNLESS REQUESTED BY THE DISTRICT.
O. BACK FLOW PREVENTION DEVICES ON PRE-EXISTING POTABLE IRRIGATION SYSTEMS BEING CONVERTED TO USE RECYCLED WATER SHALL BE REMOVED UNLESS REQUESTED BY THE DISTRICT.
P. A REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE IS REQUIRED ON ANY AND ALL POTABLE WATER SERVICE TO A PROPERTY WHERE RECYCLED WATER IS BEING USED FOR IRRIGATION.
Q. DRINKING FOUNTAINS AND PICNIC TABLES SHOULD BE PLACED TO MINIMIZE EXPOSURE TO DIRECT AND WIND BLOWN RECYCLED WATER SPRAY.
R. RECYCLED WATER SHALL NOT BE SPRAYED OUTSIDE OF THE DESIGN AREA.
S. RECYCLED WATER SHALL NOT BE USED TO IRRIGATE ANY ENCLOSED PRIVATE REAR YARD OR PATIO AREA. EXCEPTIONS CAN BE MADE IN THE CASE OF BANQUETS, WHERE SPECIAL RULES TAKE PRECEDENCE.
T. A PHYSICAL SEPARATION (BARRIER - BE PAVEMENT, CONCRETE MOUNT STOP, OR EQUIVALENT, AS DETERMINED BY THE DISTRICT) IS REQUIRED BETWEEN AREAS IRRIGATED WITH RECYCLED WATER AND AREAS IRRIGATED WITH POTABLE WATER.
U. COMPLIANCE WITH THESE NOTES IS REQUIRED FOR RECYCLED WATER SERVICE.

EQUIPMENT LEGEND table with columns: SYMBOL, MANUFACTURER / MODEL NUMBER, SIZE, and DETAIL. Lists various irrigation components like backflow preventers, valves, and controllers.

SPRINKLER LEGEND table with columns: SYMBOL, MANUFACTURER / MODEL, NOZZLE, RAD, PSI, FLOW - GPM @ PSI, and DETAIL. Lists various sprinkler models and nozzle specifications.

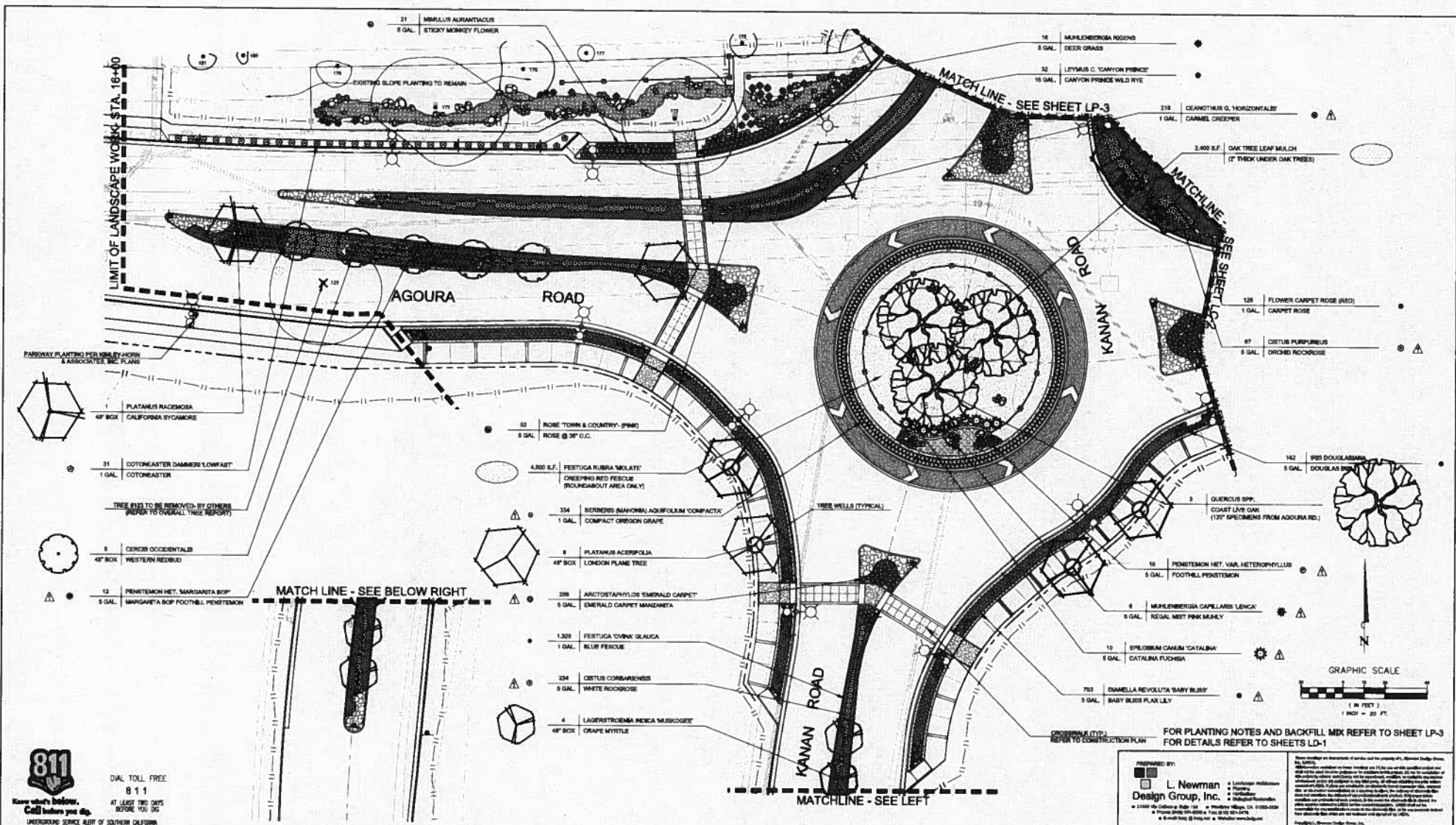
NOTE: IN PORTION OF PROJECT USING RECLAIMED WATER (CONTROLLER "D"), ALL MATERIALS TO BE USED SHALL BE APPROPRIATE FOR RECLAIMED WATER USE.

Revision table with columns: REV, SYMBOL, DESCRIPTION OF CHANGE, DATE. Row 01-31-14: IRRIGATION LAYOUT REVISION - PER PLANTING REVISIONS.

Prepared by: Kimley-Horn and Associates, Inc. 8000 Devonwood Avenue, Suite 410, Caroga Park, CA 91303. Td (818) 227-2790 Fax (818) 608-0885. Includes logo and contact information.

Reviewed by: CHARNEANE YAMBAO, ASSOCIATE CIVIL ENGINEER. Approved by: RAMIRO ADEVA, DIRECTOR OF PUBLIC WORKS/CITY ENGINEER. Includes City of Agoura Hills logo.

Project information block including L. Newman Design Group, Inc. logo, project name (KANAN ROAD AND AGOURA ROAD ROUNDABOUT IRRIGATION PLAN), sheet number (L4 OF 4), and drawing/checked by information.



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 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV	SYMBOL	DESCRIPTION OF CHANGE	DATE
01-31-14		PLANT VARIETY / QUANTITIES UPDATE - PER CITY COMMENTS	

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 CHARMAINE YAMSAO
 ASSOCIATE CIVIL ENGINEER
 DATE _____

APPROVED BY:

 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE _____

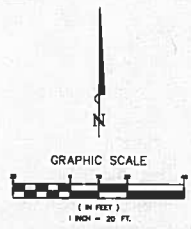
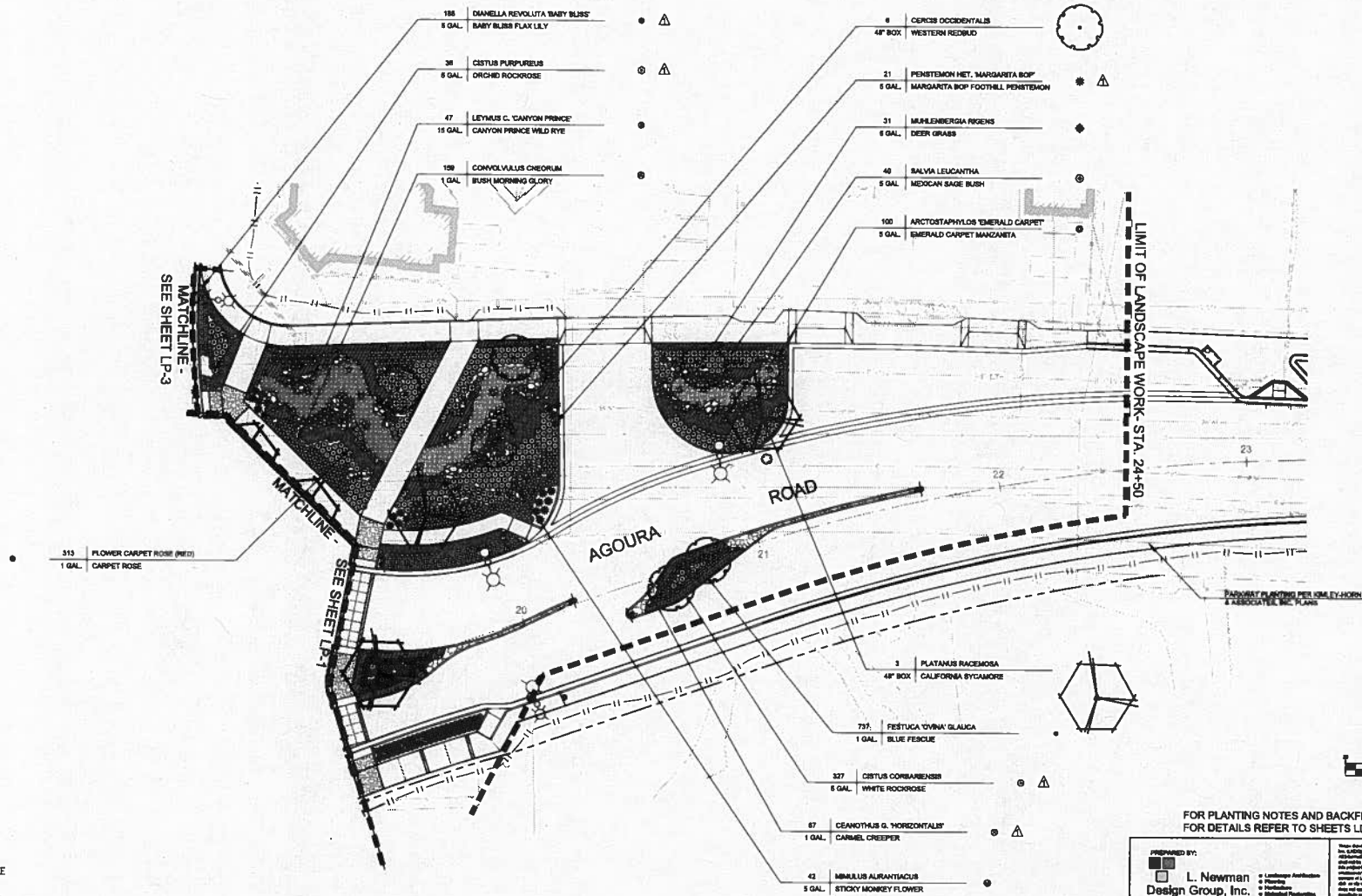
CITY OF
AGOURA HILLS

FOR PLANTING NOTES AND BACKFILL MIX REFER TO SHEET LP-3 FOR DETAILS REFER TO SHEETS LD-1

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FOR CONSTRUCTION - KANAN ROAD AND AGOURA ROAD ROUNDABOUT
PLANTING PLAN
 LP-1 OF 3

DRAWN BY: M. M. CHECKED BY: M. M. DATE: 09/14/13
 SHEET 20 OF 34



FOR PLANTING NOTES AND BACKFILL MIX REFER TO SHEET LP-3 FOR DETAILS REFER TO SHEETS LD-1

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 CHARMAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER
 DATE _____
 APPROVED BY:
 RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
 DATE _____



FOR CONSTRUCTION - KANAN ROAD AND AGOURA ROAD ROUNDABOUT - CITY OF AGOURA HILLS

DRAWN BY: ML
 CHECKED BY: BB/RLB
 DATE: _____
 PROJECT NUMBER: 099083019
 SHEET 30 OF 34

PLANTING PLAN
 LP-2 OF 3

SOIL PREPARATION SPECIFICATIONS

PREPLANT SOIL AMENDMENTS AND FERTILIZERS

- 3 CUB YDS. AGGREGATE
- 25 LBS. P-44 FERTILIZER
- ROTOCULT TO 8" DEPTH

A. TURF AND GROUND COVER

1. SOIL AMENDMENTS APPLY PER 1000 SQ. FT.

- DYNAMIC PHYLLO-COMPOSTED NITROGENED PEATMOSS BLENDED 1.00 cu. yds.

2. FERTILIZERS APPLY PER 1000 SQ. FT.

- PHOSPHORUS (P2 O5) 1.20 lbs.
- POTASSIUM (K2 O) 2.20 lbs.
- SOIL SULPHUR 25.0 lbs.
- IRON (Fe) 0.50 lbs.
- ZINC (Zn) 3.00 lbs.

ALL TURF AND GROUND COVER AREAS SHALL RECEIVE THESE AMENDMENTS WELL BEFORE AND HELD INTO THE TOP 4" AFTER INCORPORATION THE ABOVE SOIL PREPARATION INTO THE SITE SPREAD 25 LBS OF CYPRASE AND 25 LBS OF SOIL SULPHUR TO THE TOP.

B. TREE AND SHRUB BACOPILL MIX

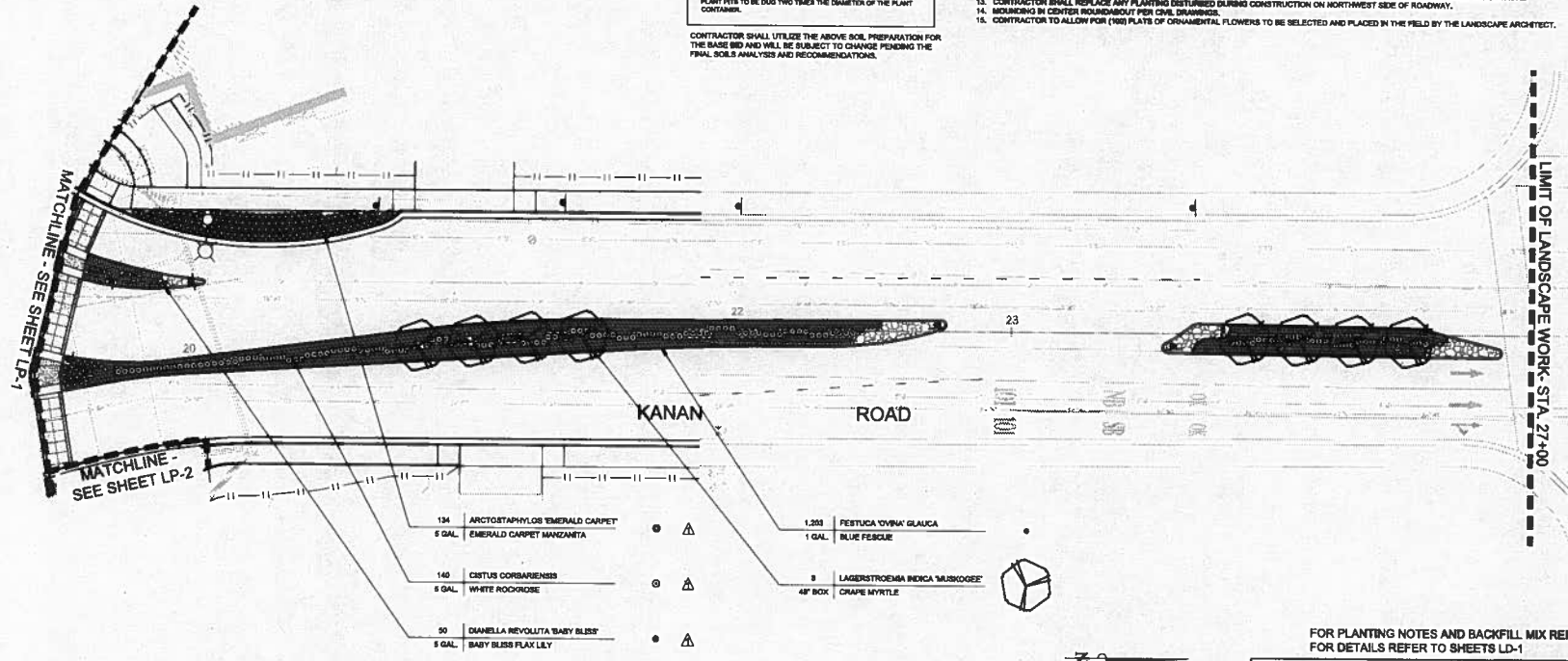
- 1. NATIVE SITE SOIL 67%
- 2. NITROGEN FERTILIZED ORGANIC SITTER 20%
- 3. COMMERCIAL FERTILIZER (8-8-8) 1 lb. / cu. yd.
- 4. IRON 2 cu. / cu. yd.
- 5. ZINC 1 lb. / cu. yd.
- 6. MYPANEMISE 1 lb. / cu. yd.

THESE MIXTURES SHALL BE THOROUGHLY BLENDED AND PLACED IN PLANT PITS.

PLANT PITS TO BE DUG TWO TIMES THE DIAMETER OF THE PLANT CONTAINER.

CONTRACTOR SHALL UTILIZE THE ABOVE SOIL PREPARATION FOR THE BASE BID AND WILL BE SUBJECT TO CHANGE PENDING THE FINAL SOILS ANALYSIS AND RECOMMENDATIONS.

- PLANTING NOTES**
1. ALL PLANT MATERIAL SHALL BE OF THE HIGHEST QUALITY AVAILABLE, EQUAL TO "NORMAN'S NURSERY" OR AS APPROVED BY THE LANDSCAPE ARCHITECT.
 2. ALL PLANTS SHALL BE OF A QUALITY, THEY SHALL BE SYMMETRICAL, FULL THE CONTAINER, FILL THE CONTAINER, THEY SHALL NOT BE ROOT BOUND, THEY SHALL NOT BE RECENTLY PLANTED FROM ONE CONTAINER SIZE TO THE SPECIFIED SIZE AND THEY WILL BE HEALTHY REPRESENTATIVE SPECIMENS.
 3. ALL PLANT MATERIAL TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY.
 4. ALL PLANTING BEDS SHALL BE GRADED, AND HAVE AMENDMENTS ADDED PRIOR TO PLANTING. REFER TO GENERAL SOIL PREPARATION SPECIFICATIONS THIS SHEET.
 5. FINAL LOCATION OF ALL TREES, SHRUBS TO BE VERIFIED IN THE FIELD BY THE LANDSCAPE ARCHITECT AND APPROVED PRIOR TO INSTALLATION. TREE & SHRUB PLANTING PER PLANTING DETAILS.
 6. DO NOT PLANT TREES WITHIN 10' OF DRAINS, CATCH BASINS, DRIVEWAYS, UTILITY POLES AND STREET LIGHTS, 5' FROM WATER METERS, OR 4' FROM CURBS.
 7. PLANT ALL TREES AND SHRUBS OUT OF THE LINE OF ANY INVERTS, ETC.
 8. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 9. LOCATIONS AND COUNTS ARE PROVIDED FOR CONVENIENCE ONLY, CONTRACTOR TO VERIFY ALL TREE AND SHRUB COUNTS, CONTRACTOR TO PROMPTLY NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY IN PLANT OR TREE COUNTS, CONTRACTOR IS SOLELY RESPONSIBLE FOR PLANTING PER PLAN. NO EXTRA'S SHALL BE ALLOWED FOR PLANT COUNT DISCREPANCIES.
 10. CONTRACTOR TO SUPPLY ONLY THE PLANT MATERIALS SPECIFIED ON THIS PLAN, CONTRACTOR SHALL NOT SUBSTITUTE ANY PLANT MATERIAL WITHOUT THE EXPRESS CONSENT OF THE OWNER AND THE LANDSCAPE ARCHITECT. ALL PLANT MATERIALS DELIVERED TO THE SITE SHALL HAVE PLANT TAGS FROM PROVED NURSERY IDENTIFYING THE PLANT BY GENUS AND SPECIES, PLANTS WITHOUT TAGS SHALL BE REJECTED.
 11. NO PLANTING SHALL TAKE PLACE UNTIL AN IRRIGATION COURSE THAT HAS BEEN COMPLETED AND APPROVED BY THE LANDSCAPE ARCHITECT.
 12. ALL SHRUB PLANTING BEDS TO RECEIVE 1" OF AGGREGATE SOIL OR EQUAL, AS APPROVED BY LANDSCAPE ARCHITECT AT TIME OF PLANTING. AN ADDITIONAL 1" OF AGGREGATE SOIL SHALL BE INSTALLED PRIOR TO END OF 90 DAY MAINTENANCE. ALL EXISTING AND TRANSPLANTED OAK TREES TO RECEIVE A 2" LAYER OF AGGREGATE SOIL, AS NOTED ON PLANTING PLAN.
 13. ALL EXISTING TURF AREAS TO REMAIN WILL BE REPLACED WITH NEW SOIL, AS NOTED.
 14. ALL TREES PLANTED WITHIN 10' OF HARDSCAPE TO RECEIVE ROOT BARRIERS.
 15. CONTRACTOR TO REMOVE TREES, AS NOTED, STUMP GRIND AND DISPOSE OF OFF-SITE TO AN APPROVED RECYCLE LANDFILL GREENWASTE.
 16. CONTRACTOR SHALL REPLACE ANY PLANTING DESTROYED DURING CONSTRUCTION ON NORTHWEST SIDE OF ROADWAY.
 17. MOUNDING IN CENTER ROUNDABOUT FOR CIVIL DRAINAGE.
 18. CONTRACTOR TO ALLOW FOR (100) PLANTS OF ORNAMENTAL FLOWERS TO BE SELECTED AND PLACED IN THE FIELD BY THE LANDSCAPE ARCHITECT.



FOR PLANTING NOTES AND BACKFILL MIX REFER TO SHEET LP-3
FOR DETAILS REFER TO SHEETS LD-1

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01-25-18		PLANT VARIETY / QUANTITIES UPDATE - PER CITY COMMENTS		

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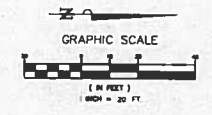


REVIEWED BY:

CHARMAINE YAMBAO DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



PREPARED BY:

L. Newman Design Group, Inc.
Landscape Architecture
Planning
Site/Civil/Structural
31289 Via Caliente # Suite 104 • Woodland Hills, CA 91367-8041
Phone (818) 705-8881 • Fax (818) 705-8881
• 818-705-8881 • lndesign.com

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FOR CONSTRUCTION - KANAN ROAD AND AGOURA ROAD ROUNDABOUT - CITY OF AGOURA HILLS

KANAN ROAD AND AGOURA ROAD ROUNDABOUT

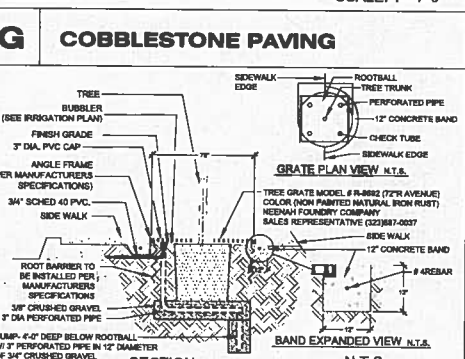
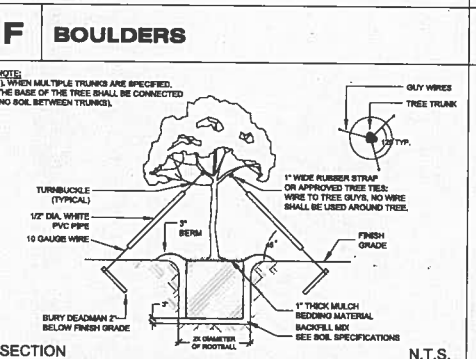
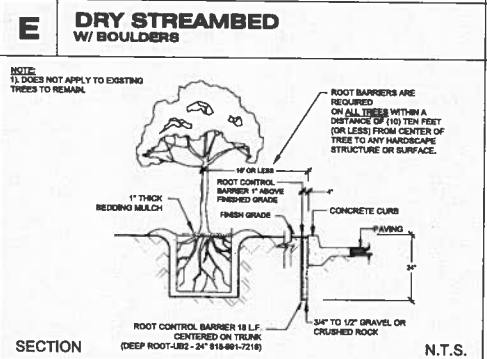
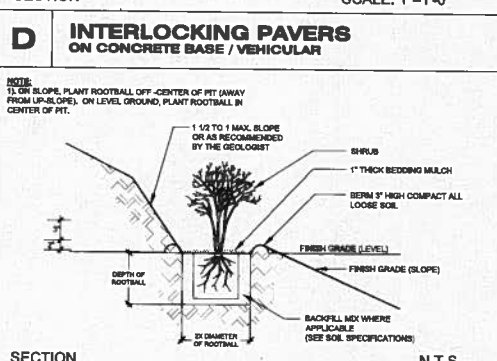
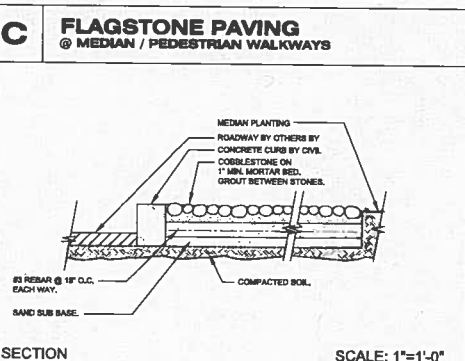
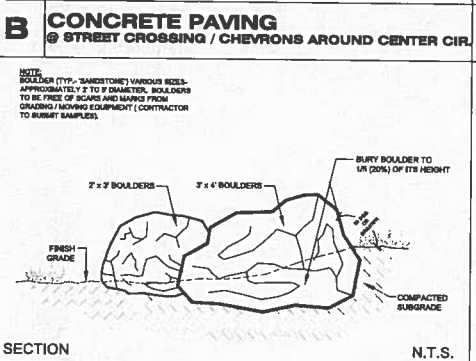
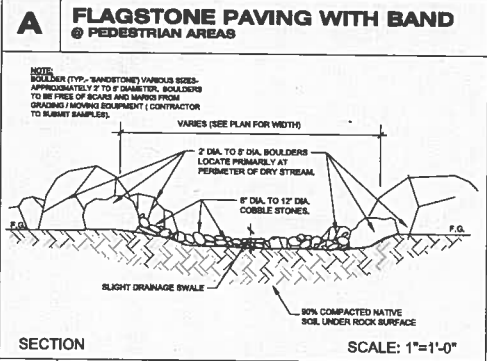
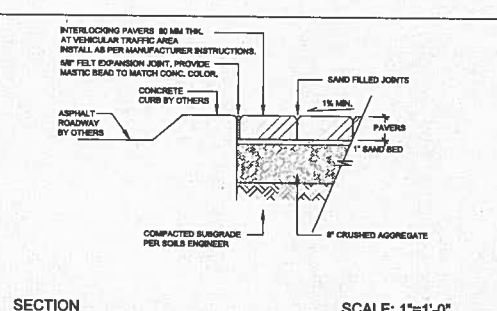
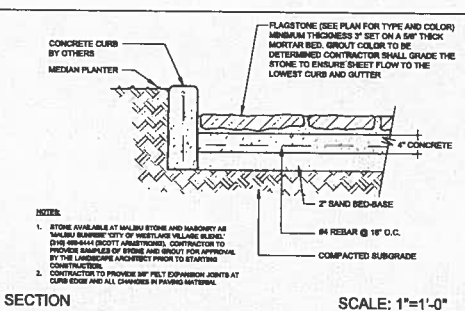
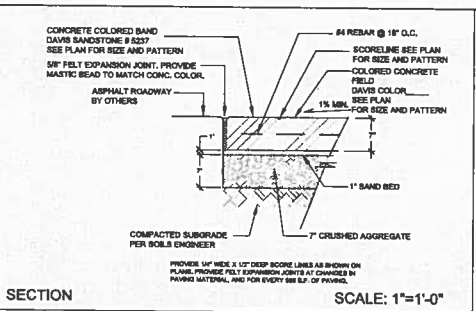
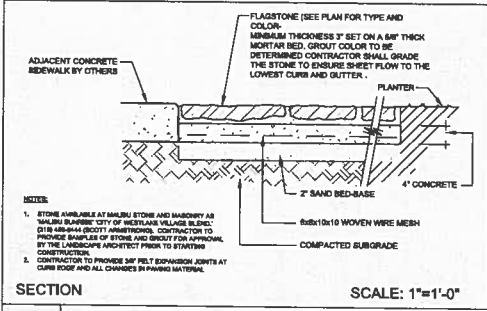
PLANTING PLAN

LP-3 OF 3

DRAWN BY: ML CHECKED BY: ML/ALB DATE: 08/08/18

PROJECT NUMBER: 089083019

SHEET 31 OF 34



NOTES:

- APPLY TO ALL PAVING
- CONTRACTOR SHALL PROVIDE PRESATURATION UNDER ALL CONCRETE FOOTINGS AND PAVING DUE TO HIGHLY EXPANSIVE SOILS. 2-5 DAY PERIOD TO ACHIEVE SATURATION DUE PER SOILS ENGINEER REQUEST.
- ALL CONSTRUCTION ITEMS REQUIRE SEPARATE CITY REVIEW, APPROVAL AND PERMIT.
- ALL VEHICULAR CONCRETE TO BE 3500 PSI FOOTINGS ON STRUCTURES TO BE 3000 PSI AND PEDESTRIAN CONCRETE TO BE 2500 PSI UNLESS NOTED OTHERWISE.

REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

Kimley-Horn and Associates, Inc.
 6500 Overlandwood Avenue, Suite 410, Canoga Park, CA 91303
 Tel (818) 227-2790 Fax (818) 608-0885

REVIEWED BY:

CHARMAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER

DATE: _____

APPROVED BY:

RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

DATE: _____

DESIGNED BY:

L. Newman Design Group, Inc.

31388 Via Colina • Suite 104 • Woodside Village, CA 91354-8841
 Phone (818) 991-8844 • Fax (818) 991-8841
 • Small Biz • Hispanic • Minority Owned

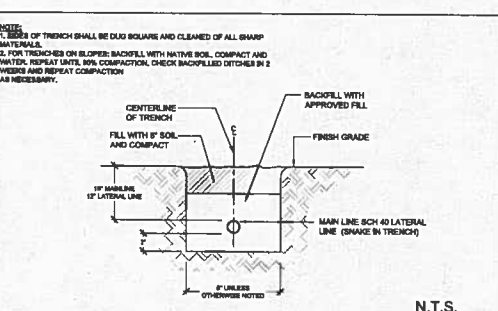
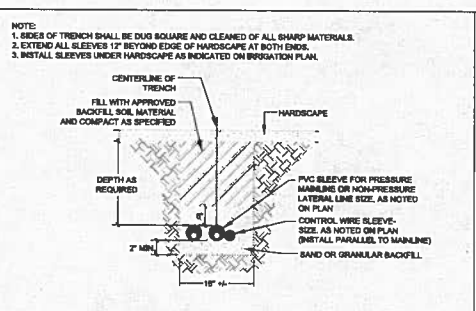
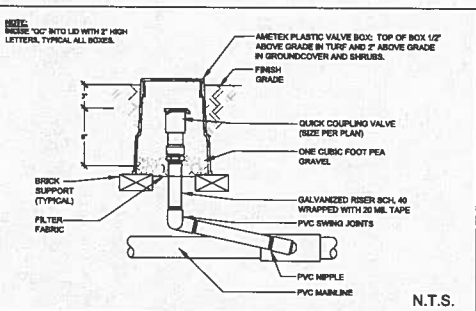
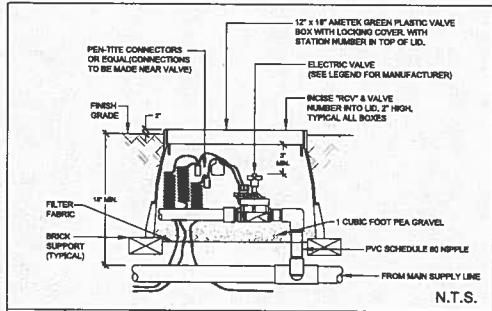
CITY OF
AGOURA HILLS

KANAN ROAD AND AGOURA ROAD ROUNDABOUT
CONSTRUCTION & PLANTING DETAILS

LD-1 OF 3

DRAWN BY: ML
 CHECKED BY: SB/RJB
 DATE: 09/08/2019

SHEET 32 OF 34

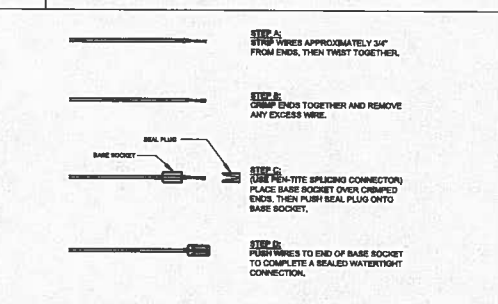
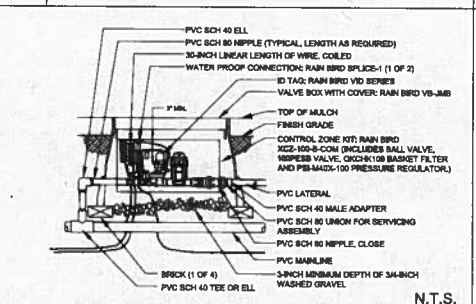
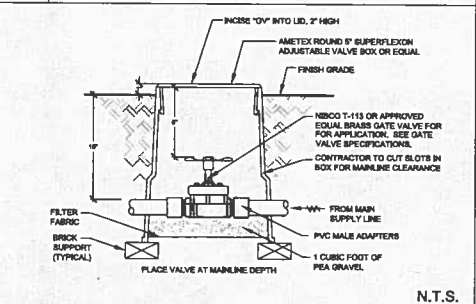
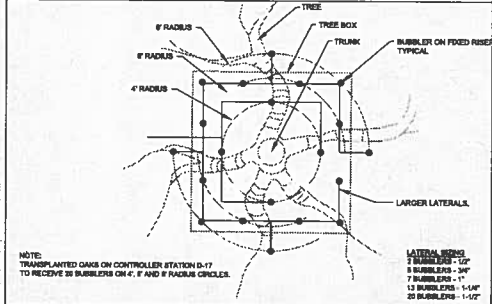


A REMOTE CONTROL VALVE

B QUICK COUPLER VALVE

C SLEEVING MAINLINE, LATERAL & ELECTRICAL

D TRENCHING LATERAL / MAINLINE

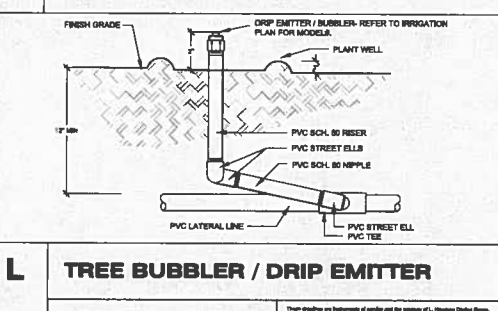
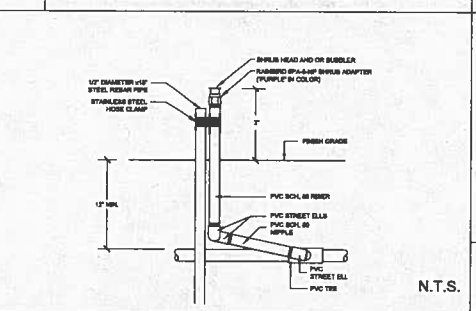
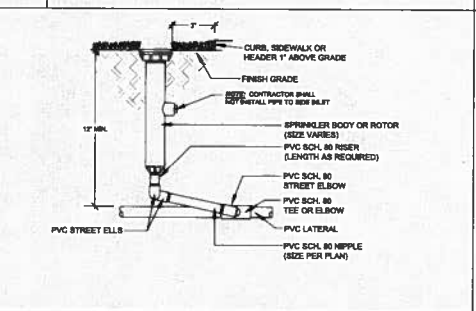
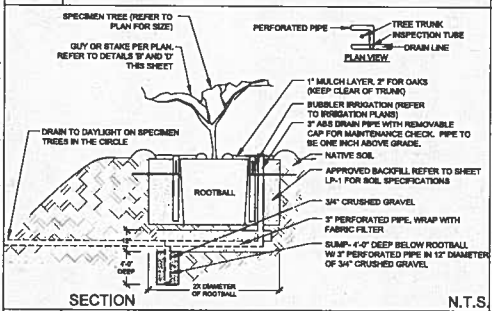


E SPECIMEN TREE OAKS IN CIRCLE

F GATE VALVE

G 1\"/>

H WIRE CONNECTION



I SPECIMEN TREE FOR TREES IN MEDIAN & PARKWAYS 36\"/>

J POP-UP IRRIGATION HEAD

K FIXED RISER BUBBLER HEADS / DRIP HEADS

L TREE BUBBLER / DRIP EMITTER

REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

Kimley-Horn and Associates, Inc.
 8800 Owensmouth Avenue, Suite 410, Canoga Park, CA 91303
 Tel (818) 227-2790 Fax (918) 608-0885

REVIEWED BY:

CHARMAINE YAMBAO
 ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF AGOURA HILLS

PREPARED BY:

L. Newman Design Group, Inc.

2788 Via Caliente Suite 100 • Woodland Hills, CA 91367-3024
 • Phone: (818) 871-4338 • Fax: (818) 871-4374
 • e-mail: info@lndg.net • Website: www.lndg.net

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KANAN ROAD AND AGOURA ROAD ROUNDABOUT
IRRIGATION DETAILS

DRAWN BY: ML
 CHECKED BY: RB/RJB
 SHEET NUMBER: 099083019

LD-3 OF 3
 SHEET 34 OF 34

ATTACHMENT C

Comments from County of Los Angeles, Fire Department, Forestry Division



COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

April 29, 2014

Allison Cook, Principal Planner
City of Agoura Hills
Planning Department
30001 Ladyface Court
Agoura Hills, CA 91301

Dear Mr. Cook:

FINAL DESIGN AND INITIAL STUDY/MITIGATED NEGATIVE DECLARATION, "KANAN ROAD AND AGOURA ROAD ROUNDABOUT PROJECT," TO CONVERTED TO A MULTI-LANE ROUNDABOUT OF TWO TRAVEL LANES ENTERING FROM EACH QUADRANT, AND BETWEEN ONE AND TWO TRAVEL LANES EXITING EACH QUADRANT OF THE ROUNDABOUT, KANAN ROAD AND AGOURA ROAD INTERSECTION, AGOURA HILLS (FFER #201400055)

The Final Design and Initial Study/Mitigated Negative Declaration has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. The following are their comments:

PLANNING DIVISION:

1. We have no comments at this time.

LAND DEVELOPMENT UNIT:

1. The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows and fire hydrants.
2. This property is located within the area described by the Forester and Fire Warden as a Fire Zone 4, Very High Fire Hazard Severity Zone (VHFHSZ). All applicable fire code and ordinance requirements for construction, access, water mains, fire hydrants, fire flows, brush clearance and fuel modification plans, must be met.

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

AGOURA HILLS
ARTESIA
AZUSA
BALDWIN PARK
BELL
BELL GARDENS
BELLFLOWER
BRADBURY

CALABASAS
CARSON
CERRITOS
CLAREMONT
COMMERCE
COVINA
CUDAHY

DIAMOND BAR
DUARTE
EL MONTE
GARDENA
GLENORA
HAWAIIAN GARDENS
HAWTHORNE

HIDDEN HILLS
HUNTINGTON PARK
INDUSTRY
INGLEWOOD
IRWINDALE
LA CANADA FLINTRIDGE
LA HABRA

LA MIRADA
LA PUENTE
LAKEWOOD
LANCASTER
LAWDALE
LOMITA
LYNWOOD

MALIBU
MAYWOOD
NORWALK
PALMDALE
PALOS VERDES ESTATES
PARAMOUNT
PICO RIVERA

POMONA
RANCHO PALOS VERDES
ROLLING HILLS
ROLLING HILLS ESTATES
ROSEMEAD
SAN DIMAS
SANTA CLARITA

SIGNAL HILL
SOUTH EL MONTE
SOUTH GATE
TEMPLE CITY
WALNUT
WEST HOLLYWOOD
WESTLAKE VILLAGE
WHITTIER

CITY OF AGOURA HILLS
2014 MAY -5 PM 1:41
CITY CLERK

3. Fire apparatus roads shall have an unobstructed width of not less than 20 feet, exclusive of shoulders, and an unobstructed vertical clearance of not less than 13 feet 6 inches. Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all weather driving capabilities.
4. Turning radii shall not be less than 32 feet. This measurement shall be determined at the centerline of the road.
5. All proposals for traffic calming measures (speed humps/bumps/cushions, traffic circles, roundabouts, etc.) shall be submitted to the Fire Department for review, prior to implementation.
6. Provide three sets of alternate route (detour) plans, with a tentative schedule of planned closures, prior to the beginning of construction. Complete architectural/ structural plans are not necessary.
7. Notify the County of Los Angeles Fire Department, Fire Stations 89, (818)597-2272, FS 65, (818)889-0610 and FS 144, (818) 889-1626 at least three days in advance of any street closures that may affect Fire/Paramedic responses in the area.
8. Disruptions to water service shall be coordinated with the County of Los Angeles Fire Department and alternate water sources shall be provided for fire protection during such disruptions.
9. Should any questions arise regarding subdivision, water systems, or access, please contact the County of Los Angeles Fire Department, Land Development Unit Inspector, Nancy Rodeheffer, at (323) 890-4243 or at nrodeheffer@fire.lacounty.gov.
10. The County of Los Angeles Fire Department, Land Development Unit, appreciates the opportunity to comment on this project.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

1. The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Fire Hazard Severity Zones, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas will need to be addressed.

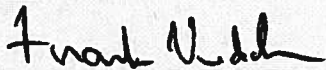
HEALTH HAZARDOUS MATERIALS DIVISION:

1. The Health Hazardous Materials Division has no objection to the proposed project.

Allison Cook
April 29, 2014
Page 3

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

A handwritten signature in black ink, appearing to read "Frank Vidales". The signature is written in a cursive style with a prominent initial "F".

FRANK VIDALES, CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

FV:jl

ATTACHMENT D

Final MND



*** PLEASE NOTE:**

*Due to the large size of this item,
this document is available for review in:
the Office of the City Clerk
30001 Ladyface Court, Agoura Hills, CA
or on the City's website at:*

<http://www.ci.agoura-hills.ca.us/Home/ShowDocument?id=13754>

KANAN ROAD AND AGOURA ROAD ROUNABOUT PROJECT

Final Initial Study and Mitigated Negative Declaration

April 2014